RECEPTACLE SYMBOLS	
7 RP-5	TYPICAL RECEPTACLE CIRCUIT DESIGNATION (RP-5) INDICATES PANEL DESIGNATION, (7) INDICATES CIRCUIT BREAKER NUMBER. PROVIDE 20A/1P AND 2#12 FOR EACH CIRCUIT NUMBER & 1#12G, IN 3/4 " CONDUIT, UNLESS OTHERWISE NOTED OR SCHEDULED, SEE GENERAL NOTE 1.
	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W NEMA 5-20R
GFI	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R, (GROUND FAULT CIRCUIT INTERRUPTER)

ELECTRICAL SYMBOLS	
JB / JB	JUNCTION BOX
	PANELBOARD
	DISTRIBUTION/POWER PANEL
	MOTOR CONNECTION
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	COMBINATION MAGNETIC MOTOR STARTER
	GROUND ROD
	WIRE/CONDUIT EXPOSED
	WIRE/CONDUIT CONCEALED
	WIRE/CONDUIT CONCRETE ENCASED OR DIRECT BURIED
G	GROUNDING CONDUCTOR, SIZE AS INDICATED.
2W20 (20/2) RP5-7,9	HOME RUN INDICATION WITH PANEL DESIGNATION (RP5), CIRCUIT No.(7)&(9), OVERCURRENT PROTECTION "AMPS AND POLES" (20/2) AND WIRE/CONDUIT DESIGNATION (2W20). SEE WIRE AND CONDUIT SIZE SCHEDULE. PROVIDE 20A/1P AND 2 #12 FOR EACH HOMERUN ARROW & 1 #12G IN 3/4 " CONDUIT, UNLESS OTHERWISE INDICATED. SEE GENERAL NOTE 1.

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, DRAWINGS LATEST EDITION OF THE MASSACHUSETTS ELECTRICAL CODE, NATIONAL ELECTRICAL CODE (NEC), AND THE REGULATIONS OF OTHER AUTHORITIES HAVING JURISDICTION. ALL WIRING AND EQUIPMENT SHALL BE UL. LISTED & LABELED.
2. THESE ARE STANDARD COVER SHEET ABBREVIATION LISTS AND SYMBOLS. DISREGARD UNUSED ABBREVIATIONS AND SYMBOLS.
3. THE DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW ALL EXISTING INTERIOR WALL OR EVERY PROPOSED OFFSET OF FITTING. THE DRAWINGS ARE NOT INTENDED TO SERVE AS SHOP DRAWINGS.
4. ELECTRICAL CONTRACTOR TO FURNISH A COPY OF THE ELECTRICAL PERMIT APPLICATION AND COMPLETED PERMIT TO THE OWNER.
5. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS BEFORE LAYING OUT THE WORK AND SHALL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.
6. VERIFY EXACT MOUNTING CONDITIONS AND PROVIDE APPROPRIATE ACCESSORIES AND HARDWARE TO ACCOMMODATE REQUIREMENTS.
7. EC SHALL REFER TO ALL SHOP DRAWINGS FOR EXACT DEVICES QUANTITIES AND OTHER REQUIREMENTS.
8. DEVICES SHOWN ON "GRAY" ARE TO REMAIN UNLESS OTHERWISE NOTED.
9. PROVIDE A GROUND CONDUCTOR IN EACH ELECTRICAL RACEWAY IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE AS FOLLOWS:
10. EQUIPMENT GROUND WIRES (INSULATED GREEN CONDUCTORS) SHALL BE PROVIDED IN ALL FEEDERS AND ALL BRANCH CIRCUITS.
11. ALL FLEXIBLE METAL OR LIQUID-TIGHT CONDUIT CONNECTIONS TO EQUIPMENT MOTORS, FURNITURE, LIGHTING FIXTURES, ETC. SHALL CONTAIN EQUIPMENT GROUND WIRES. FLEXIBLE METAL CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUND CONDUCTOR.
12. ALL DEVICES, EQUIPMENT, ETC. SHALL BE GROUNDED BY USE OF A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MECHANICAL/ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
13. ELECTRICAL CONTRACTOR TO INSTALL EQUIPMENT AT MOUNTING HEIGHTS, CLEARANCES TO MEET NEC, MAAB AND ADA REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

GENERAL DEMOLITION NOTES:

A. GENERAL DEMOLITION WORK SHALL BE DONE BY THE GENERAL CONTRACTOR UNLESS OTHERWISE INDICATED. COORDINATE ALL WORK CONCERNING EXISTING EQUIPMENT AND SERVICES REMAINING IN THE BUILDING. DE-ENERGIZE CIRCUITS AND RECONNECT CIRCUITS TO REMAIN THAT ARE DISRUPTED DURING DEMOLITION. ELECTRICAL PANELBOARD SERVING THE SCOPE OF WORK IS LOCATED WITHIN THE BASE BUILDING SPACE. GC/EC SHALL COORDINATE WITH TENANT AND BASE BUILDING PRIOR ANY WORK.

B. VISIT SITE AND FIELD VERIFY THE NUMBER OF DEVICES WITHIN THE CONSTRUCTION AREA PRIOR TO BID AND REMOVAL. THE DRAWINGS DO NOT LIMIT THE AMOUNT OF DEMOLITION WORK REQUIRED. CONTRACTOR MUST PERFORM THE DEMOLITION WORK AS INDICATED ON THE DEMOLITION DRAWINGS AND AS REQUIRED FOR THE NEW WORK.

C. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS, AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN). VERIFY CIRCUITS, DEVICES, AND EQUIPMENT SCHEDULED FOR REMOVAL TO ASSURE THAT THEIR REMOVAL WILL NOT ADVERSELY AFFECT ADJACENT AREAS NOT BEING RENOVATED.

D. COORDINATE WORK CONCERNING EXISTING EQUIPMENT AND SERVICES IN THE TENANT SPACE. COORDINATE REQUIRED POWER INTERRUPTIONS AND PERFORM AT TIME CONVENIENT TO THE BASE BUILDING AND TENANT. INCLUDE COSTS FOR REQUIRED PREMIUM TIME. PROVIDE ALL TEMPORARY ELECTRICAL SERVICES AS NEEDED.

E. UNLESS OTHERWISE NOTED, DISCONNECT, MAKE SAFE, AND REMOVE ALL TEMPORARY AND ABANDONED WIRE WITHIN DEMOLITION AREA.

F. CONTRACTOR SHALL COORDINATE SEQUENCE OF POWER INTERRUPTIONS OF ELECTRICAL SYSTEM WITH LANDLORD. DO NOT INTERRUPT EXISTING SERVICES WITHOUT APPROVAL. CARRY A PRICE FOR INTERRUPTIONS TO OCCUR DURING NON-PEAK HOURS SUCH AS WEEKENDS OR DURING TIMES WITH MINIMAL IMPACT TO TENANTS.

G. WIRING FOR DEMOLISHED EQUIPMENT SHALL BE BACK TO THE NEAREST JB/CONNECTION POINT, OR TO THE SOURCE AFTER FIELD VERIFICATION. CONTRACTOR SHALL NOT ABANDON WIRING IN EXISTING WALLS AND CEILINGS.

H. UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL DEVICES TO REMAIN.

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PROJECT NAME:
154-156 BOYLSTON ST
ELECTRICAL SERVICE

154-156 BOYLSTON ST
BOSTON MA

DRAWING TITLE:
ELECTRICAL SYMBOLS AND GENERAL NOTES

DRAWING NO:
E-001

FILE: [FILE NAME]
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SECTION 260010 - ELECTRICAL GENERAL REQUIREMENTS

A. PROVIDE WORK AS INDICATED ON CONTRACT DOCUMENTS. PROVIDE COMPLETE AND WORKING ELECTRICAL EQUIPMENT, SYSTEMS AND COMPONENTS INCLUDING SUPPORTING SERVICES OF GENERAL, AND SPECIALTY TRADES.

B. UNLESS DIMENSIONED, WORK INDICATED ON DRAWINGS IS DIAGRAMMATIC ONLY TO INDICATE GENERAL ARRANGEMENT.

C. PROVIDE ACCESSORIES AND APPURTENANCES REQUIRED FOR COMPLETE OPERATING SYSTEMS. INSTALLATION SHALL BE IN ACCORDANCE WITH NECA 1-STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING.

D. GENERAL REQUIREMENTS IN DIVISION 1 APPLIES TO OR AFFECTS ELECTRICAL WORK.

E. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE CODES, REGULATIONS AND STANDARDS. COORDINATE WORK WITH ALL OTHER TRADES AND THE DESIGN PROFESSIONAL. ANY DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND/OR BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

F. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BEAR THE LABEL OF UNDERWRITERS LABORATORIES, INC. (UL) OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY. ALL ELECTRICAL EQUIPMENT AND APPARATUS FOR ANY ONE (1) SYSTEM SHALL BE THE PRODUCT OF ONE (1) MANUFACTURER.

SECTION 260505 - DEMOLITION, RELOCATION AND ALTERATION

A. PROVIDE REMOVAL, RELOCATION, REROUTING AND RECONNECTION OF EXISTING ELECTRICAL SYSTEMS, AS REQUIRED, TO ACCOMPLISH ALTERATION, RESTORATION AND NEW WORK. PROVIDE ALL TEMPORARY EQUIPMENT AND WORK TO KEEP ALL EXISTING SYSTEMS IN OPERATION. COORDINATE WORK WITH OWNER. MINIMIZE INTERRUPTIONS OF SERVICES AND COORDINATE INTERRUPTIONS WITH OWNER.

B. VERIFY BY INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (NETA) STANDARDS THAT ALL EQUIPMENT INDICATED OR PROPOSED FOR REUSE IS IN WORKING ORDER. OWNER'S REPRESENTATIVE WILL REVIEW TEST RESULTS AND ACCEPT OR REJECT REUSE OF EQUIPMENT.

C. DELIVER MATERIAL AND EQUIPMENT INDICATED FOR SALVAGE TO LOCATION DIRECTED BY THE OWNER'S REPRESENTATIVE. ALL OTHER DEMOLITION MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.

D. CAP AND SEAL ELECTRICAL OPENINGS THAT ARE NOT USED.

E. EXISTING CONDITIONS WERE OBTAINED FROM SITE SURVEY INVESTIGATION AND ARE NOT GUARANTEED TO BE COMPLETE OR CORRECT. SURVEY AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID AND STARTING WORK.

F. UON ON DRAWINGS, ALL EXISTING ELECTRICAL DEVICES TO REMAIN. EXCEPT RECEPTACLES, OUTLETS AND LIGHT SWITCHES THAT ARE RELOCATED.

SECTION 260300- SUBMITTALS

A. PROVIDE SHOP DRAWINGS AND SUBMITTALS FOR THE REQUIRED EQUIPMENT. SUBMITTALS SHALL INCLUDE DRAWINGS, PERFORMANCE DATA AND CATALOG CUTS TO DEMONSTRATE CONFORMANCE WITH REQUIREMENTS.

1. CONDUIT, JUNCTION BOX, PULL BOX, WIRES, AND CABLE
2. OUTLET, RECEPTACLES, WIRING DEVICES
3. PANELBOARDS

B. EACH SHOP DRAWING SHALL BE SUBMITTED SEPARATELY UNDER THE APPLICABLE SPECIFICATION SECTION NUMBER.

SECTION 260533 - CONDUIT

A. CONCEAL CONDUIT AND CABLE FROM VIEW, UNLESS OTHERWISE INDICATED. BASEMENT ROOM MAY BE PROVIDED WITH EXPOSED CONDUIT.

B. PROVIDE CONDUIT RACEWAY SYSTEM, INCLUDING CONDUITS, FITTINGS, COUPLINGS, CONNECTORS, SUPPORTS BUSHINGS AND APPURTENANCES. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCHES IN DIAMETER.

C. ALL FEEDER CONDUCTORS SHALL BE RUN IN ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION FITTINGS.

D. PANEL FEEDER SHALL BE RUN IN HOT-DIPPED, GALVANIZED, HEAVY-WALL RIGID STEEL CONDUIT.

E. PROVIDE ELECTRICAL METALLIC TUBING (EMT) FOR BRANCH CIRCUITS, FIRE ALARM, SECURITY, AV, WIRING ABOVE HUNG CEILINGS AND IN NON-MASONRY PARTITIONS WHICH ARE NOT CLASSIFIED AS DAMP OR WET. PROVIDE COMPRESSION-TYPE FITTINGS AND INSULATED COPPER GROUND WIRE IN BRANCH CIRCUITS.

F. FLEXIBLE METAL CONDUIT, HEAVY ZINC-COATED, SHALL BE USED FOR FINAL CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT AND LIGHT FIXTURES. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR FINAL CONNECTIONS TO MOTORS.

G. PROVIDE EXPANSION COUPLINGS ACROSS ALL BUILDING EXPANSION JOINTS. A MAXIMUM OF (3) 90 DEGREE BENDS SHALL BE PERMITTED BETWEEN PULL BOXES.

H. THE USE OF MC (METALIC-CLAD) CABLE GREEN INSULATED GROUNDING CONDUCTOR SHALL BE PERMITTED FOR BRANCH CIRCUITS.

I. CONDUITS SHALL BE AS MANUFACTURED BY ALLIED, REPUBLIC, TRIANGLE OR WHEATLAND. METAL CONDUIT FITTINGS SHALL BE AS MANUFACTURED BY CROUSE-HINDS, APPLETON, KILLARK, THOMAS AND BETTS, O.Z. GEDNEY OR STEEL CITY. METAL CONDUIT EXPANSION FITTINGS SHALL BE TYPE EX OR TX AS MANUFACTURED BY O.Z. GEDNEY.

J. RUN ALL CONDUITS AND MC CABLES CONCEALED AND MINIMUM 6 INCHES CLEAR OF SOURCES OF HEAT AND 12 INCHES BETWEEN POWER CONDUITS AND COMMUNICATIONS CABLES. SUPPORT CONDUITS FROM STRUCTURE, NOT FROM CEILING SUPPORT WIRES. PROVIDE UL LISTED FIRE-RATED SMOKE AND WATER SEALANTS AT PENETRATIONS, OPENINGS AND SLEEVES IN FIRE-RATED AND ELECTRICAL/COMMUNICATION ROOM WALLS AND FLOORS.

K. PROVIDE PULL WIRES IN ALL EMPTY CONDUIT/RACEWAY INSTALLED FOR SECURITY, TELEPHONE, DATA, AV, OR OTHER SYSTEMS.

L. CONDUIT INSTALLATION SHALL BE IN ACCORDANCE WITH NECA 101-STANDARD FOR INSTALLING STEEL CONDUITS.

SECTION 260526 - GROUNDING

A. PROVIDE GROUNDING FOR SWITCHES, PANELBOARDS, MOTORS, CABLE TRAY, ELECTRICAL EQUIPMENT, FLOOR SYSTEMS AND FOR ALL NONCURRENT-CARRYING PORTIONS OF THE ELECTRICAL SYSTEM. CONDUCTORS SHALL BE COPPER.

SECTION 260513- WIRES AND CABLES

A. PROVIDE COMPLETE SYSTEM OF WIRES AND CABLES, INCLUDING TERMINALS, SPLICES, CONNECTORS, COLOR CODING, LUGS, TAPS AND APPURTENANCES.

B. WIRES AND CABLES TO BE MINIMUM NO. 12 AWG COPPER WITH 600-VOLT THHN/THWN INSULATION. WIRES 10 AWG AND SMALLER SHALL BE SOLID AND WIRES LARGER THAN NO. 10 AWG SHALL BE STRANDED. PROVIDE COLOR CODING FOR EACH WIRE OF POWER SYSTEM. FEEDERS, POWER AND LIGHTING CIRCUIT CONDUCTORS, FOR SERVICE OF 600 VOLTS AND LESS, SHALL BE COPPER, 600 VOLTS TYPE THWN/THHN-2 INSULATED ON WIRES UP TO AND INCLUDING NO. 8 AWG. SIZES. NO. 6 AND LARGER SHALL BE TYPE THW, XHHW OR RHW INSULATION. ALUMINUM WIRE IS NOT ACCEPTABLE. APPROVED MANUFACTURERS ARE ESSEX, AMERICAN INSULATED WIRE CORPORATION, CERRO OR SOUTHWIRE.

C. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GROUND WIRE. SHARED NEUTRALS ARE NOT PERMITTED. PROVIDE A NEUTRAL WIRE FOR EACH PHASE CONDUCTOR.

D. USE BUCHANAN "B" CAP, IDEAL WING-NUT, THOMAS AND BETTS OR 3M SCOTCHLOK BRAND CONNECTORS FOR WIRES NO. 10 AWG AND SMALLER.

E. USE SOLDERLESS COMPRESSION-TYPE LUGS FOR WIRES LARGER THAN 10 AWG. LUGS SHALL BE BURNDY TYPE QA-B QUICKLUG OR EQUAL. FEEDER TAPS SHALL BE BURNDY QPX VERSITAP OR EQUAL.

F. MC CABLE SHALL BE COPPER, 600 VOLT, THHN/THWN WITH GALVANIZED STEEL ARMOR WITH A SEPARATE INSULATED GREEN GROUND CONDUCTOR. COLOR-CODE EACH CONDUCTOR. APPROVED MANUFACTURERS ARE KAF-TECH OR AFC. MC CABLE CONNECTORS SHALL BE AFC-50,-75, O.Z. GEDNEY AMC OR T&B 3110.

G. MC CABLE IS NOT ACCEPTABLE FOR USE IN:

1. MASONRY PARTITIONS
2. AREAS CLASSIFIED BY NFPA 70 AS DAMP OR WET
3. POWER PANEL FEEDER CIRCUITS
4. EXPOSED INSTALLATIONS WITHIN 10 FEET ABOVE FINISHED FLOOR.
5. ABOVE DRYWALL OR IN ACCESSIBLE CEILINGS

H. MC CABLE INSTALLATION:

1. DO NOT BUNDLE MORE THAN TWENTY (20) TOTAL CURRENT-CARRYING CONDUCTORS IN MULTIPLE MC CABLE RUNS ON ONE (1) MC CABLE HANGER. NEUTRALS ARE COUNTED AS CURRENT-CARRYING CONDUCTORS.

2. INSTALL MC CABLE PARALLEL OR PERPENDICULAR TO WALLS. DIAGONAL RUNS ARE NOT ACCEPTABLE.

3. MAINTAIN MINIMUM CLEARANCE OF 6 INCHES FROM TELECOMMUNICATIONS CONDUITS, HOT WATER AND OTHER HIGH TEMPERATURE PIPES, AND MINIMUM CLEARANCE OF 12 INCHES FROM UNSHIELDED TWISTED-PAIR TELECOMMUNICATION CABLES.

4. MC CABLE LAYOUT AND SUPPORT ARE SUBJECT TO APPROVAL OF DESIGN PROFESSIONAL. SUPPORT MC CABLE WITH "BRIDAL RINGS", INDIVIDUAL SPRING STEEL SUPPORT CLIPS, STEEL TRAPEZE HANGERS, THREADED RODS OR DEDICATED NO. 8 AWG DROP WIRES. FASTEN MC CABLE SUPPORTS TO CONCRETE SLABS, BEAMS, JOISTS OR OTHER STRUCTURAL MEMBERS OF THE BUILDING. DO NOT SUPPORT MC CABLE ON HUNG CEILINGS OR ON CEILING SUPPORT WIRES. DO NOT SUPPORT MC CABLE BY MEANS OF CABLE TIES.

5. MC CABLE SUPPORT: MAXIMUM SPACING BETWEEN SUPPORTS IS 6 FEET AND WITHIN 1 FOOT OF EVERY BOX, PANELBOARD, FITTING OR CABLE TERMINATION.

6. PROVIDE UL LISTED, FIRE-RATED PENETRATION ASSEMBLY WHERE MC CABLE PASSES THROUGH FIRE-RATED WALLS, ELECTRICAL ROOM AND TELECOMMUNICATION ROOM WALLS; FLOOR OR CEILING.

SECTION 260534 - JUNCTION AND PULL BOXES

A. PROVIDE JUNCTION AND PULL BOXES OF SIZED PER CODE, INCLUDING COVERS, TRIM, SUPPORTS, IDENTIFICATION TAGS AND APPURTENANCES, AND CONSTRUCTED OF CODE-GAUGE GALVANIZED STEEL. BOXES MOUNTED IN CONCRETE FLOORS SHALL BE CONCRETE-TIGHT, ADJUSTABLE AND UL LISTED FOR SCRUB WATER EXCLUSION AND WITH TRIM TO MATCH FLOOR OR CONCRETE FINISH.

B. PROVIDE A MAXIMUM OF (3) 90 DEGREE CONDUIT BENDS OR 100 FEET OF RUN LENGTH BETWEEN PULL POINTS FOR POWER CONDUITS AND (2) 90 DEGREE BENDS OR 100 FEET OF RUN LENGTH FOR COMMUNICATIONS, FA/SECURITY, AV CONDUITS. LOCATE PULL BOXES IN STRAIGHT SECTIONS OF CONDUIT RUN AND DO NOT USE IN LIEU OF CONDUIT ELBOWS. PULL BOXES SHALL BE ACCESSIBLE.

SECTION 260535 - OUTLET BOXES

A. PROVIDE ONE PIECE, PRESSED GALVANIZED STEEL 2-1/8TH INCH DEEP OUTLET BOXES WITH KNOCKOUTS. CONCEALED OUTLET BOXES SHALL BE FLUSHED TO FINISHED SURFACE. EXPOSED OUTLET BOXES (EXCEPT IN ELECTRICAL/TELECOM ROOMS) SHALL BE CAST IRON WITH GASKETED COVER AND FITTINGS. OUTLETS ON OPPOSITE SIDE OF WALLS OR PARTITIONS SHALL BE STAGGERED. PROVIDED COVER TO SUIT USE.

B. COORDINATE FINAL OUTLET LOCATIONS WITH ARCHITECTURAL DRAWINGS AND DETAILS. DO NOT SCALE ELECTRICAL DRAWINGS. HEIGHTS OF OUTLETS SHALL BE APPROVED BY DESIGN PROFESSIONAL AND SHALL MEET NEC, MAAB AND ADA REQUIREMENTS.

SECTION 262726 - WIRING DEVICES, OUTLETS AND PLATES

A. PROVIDE WIRING DEVICES, OUTLETS AND PLATES, INCLUDING RECEPTACLES, SWITCHES, PILOT LIGHTS, WIRING, BUSHED OPENINGS AND APPURTENANCES.

B. ALL DEVICES SHALL BE INDUSTRIAL EXTRA HEAVY-DUTY, SPECIFICATION GRADE, MOLDED NYLON, 20 AMPERE WITH SCREW-TYPE BACK WIRED TERMINALS OR EXTRA HEAVY-DUTY PLUG-TAIL/SNAP-CONNECT DEVICES WITH 6 INCH RIGHT ANGLE PRE-STRIPPED #12 SOLID PIGTAIL AS MANUFACTURED BY ARROW-HART, BRYANT, HUBBELL, PASS & SEYMOUR (P&S) OR LEVITON. PROVIDE 5% SPARE PIGTAIL DEVICES IF USED. DEVICES IN WET OR DAMP LOCATIONS SHALL BE UL 498 WEATHER RESISTANT TYPE. REMOVAL OF DEVICE FROM BOX SHALL NOT INTERRUPT BRANCH CIRCUIT GROUND CONDUCTOR CONTINUITY.

C. IDENTIFY ALL RECEPTACLES AND LIGHT SWITCHES BY MEANS OF A WATERPROOF, PRINTED NON-GLARE VINYL LABELING TAPE INDICATING PANEL AND CIRCUIT DESIGNATION. TAPE SHALL BE CLEAR OR TRANSLUCENT WITH BLACK TEXT.

D. COVER PLATES SHALL MATCH EXISTING COLOR AS MANUFACTURED BY ARROW-HART OR EQUAL BY BRYANT, HUBBELL, PASS & SEYMOUR (P&S) OR LEVITON.

E. ALL RECEPTACLES AND SWITCHES SHALL MATCH EXISTING COLOR, UNLESS OTHERWISE INDICATED BY THE ARCHITECT.

SECTION 262415 - PANELBOARDS AND CIRCUIT BREAKERS

A. PROVIDE PANELBOARDS, INCLUDING CABINETS, BUS WORK, PROTECTIVE DEVICES, TRIM, DOOR, NAMEPLATE, WIRING, SUPPORTS AND APPURTENANCES. BUS BARS SHALL BE COPPER.

B. 120/208-VOLT RECEPTACLE PANELBOARDS SHALL BE DEAD-FRONT, BOLT-ON, CIRCUIT BREAKER TYPE WITH 1-PHASE, 3-WIRE MAINS. PANELBOARDS SHALL MATCH EXISTING. CIRCUIT BREAKERS SHALL HAVE MATCHING AMPERES SYMMETRICAL INTERRUPTING CAPACITY (AIC) WITH EXISTING.

C. CABINETS SHALL BE GALVANIZED, FLUSH OR SURFACE MOUNTED, AND SHALL BE PROVIDED WITH A FLUSH-TYPE DOOR AND TRIM, EQUIPPED WITH SEMI-CONCEALED HINGES, A FLUSH-TYPE CATCH, AND A LOCK. ALL LOCKS SHALL BE KEYED ALIKE. TRIMS SHALL BE FACTORY FINISHED.

D. PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE D COMPANY.

E. PANELBOARD CIRCUIT BREAKERS SHALL BE FULLY RATED FOR AVAILABLE SHORT-CIRCUIT CURRENT AND MATCH EXISTING.

F. ALL CIRCUIT BREAKERS SHALL BE FACTORY FURNISHED WITH AN ATTACHMENT TO ENABLE PADLOCKING OF BREAKER IN THE "OFF" POSITION.

G. PROVIDE PERMANENT NAMEPLATE AND DIRECTORY.

H. PROVIDE ADDITIONAL FIREPROOFING MATERIAL BEHIND FLUSH-MOUNTED PANELS IN FIRE-RATED WALLS TO RE-ESTABLISH FIRE RATING OF WALL.

I. ENCLOSED CIRCUIT BREAKER ENCLOSURES SHALL BE UL LISTED, NEMA 1 AND SHALL BE PADLOCKABLE IN THE OFF POSITION. ENCLOSED CIRCUIT BREAKERS SHALL MEET THE AMPERES SYMMETRICAL INTERRUPTING CAPACITY INDICATED. ALL CIRCUIT BREAKERS SHALL BE FULLY RATED.

SECTION 260553 - IDENTIFICATION

A. ALL RECEPTACLES, OUTLET, JUNCTION BOX, BRANCH CABLE SHALL BE LABELED WITH ASSOCIATED BRANCH CIRCUIT NUMBER.

B. IDENTIFY EACH PANELBOARD WITH A NAMEPLATE. EQUIPMENT NAMEPLATE SHALL BE ENGRAVED LAMINATED BLACK-ON-WHITE PHENOLIC WITH 3/16 INCH HIGH LETTERS AND SCREWED TO EQUIPMENT.

C. PANELBOARD SHALL BE PROVIDED WITH DIRECTORY LABEL.

D. NAMEPLATES SHALL BE TWO LINE AND INDICATE EQUIPMENT BEING SERVED AS WELL AS POWER SOURCE. FOR EXAMPLE:

1. FROM PANEL DC.

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REISEN DESIGN ASSOCIATES
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CAMBRIDGE MA

NO	DATE	REVISION

STAMP:

PROJECT NAME:
154-156 BOYLSTON ST ELECTRICAL SERVICE
154-156 BOYLSTON ST
BOSTON MA

DRAWING TITLE:
ELECTRICAL SPECIFICATIONS

DRAWING NO:
E-002

FILE:	[FILE NAME]
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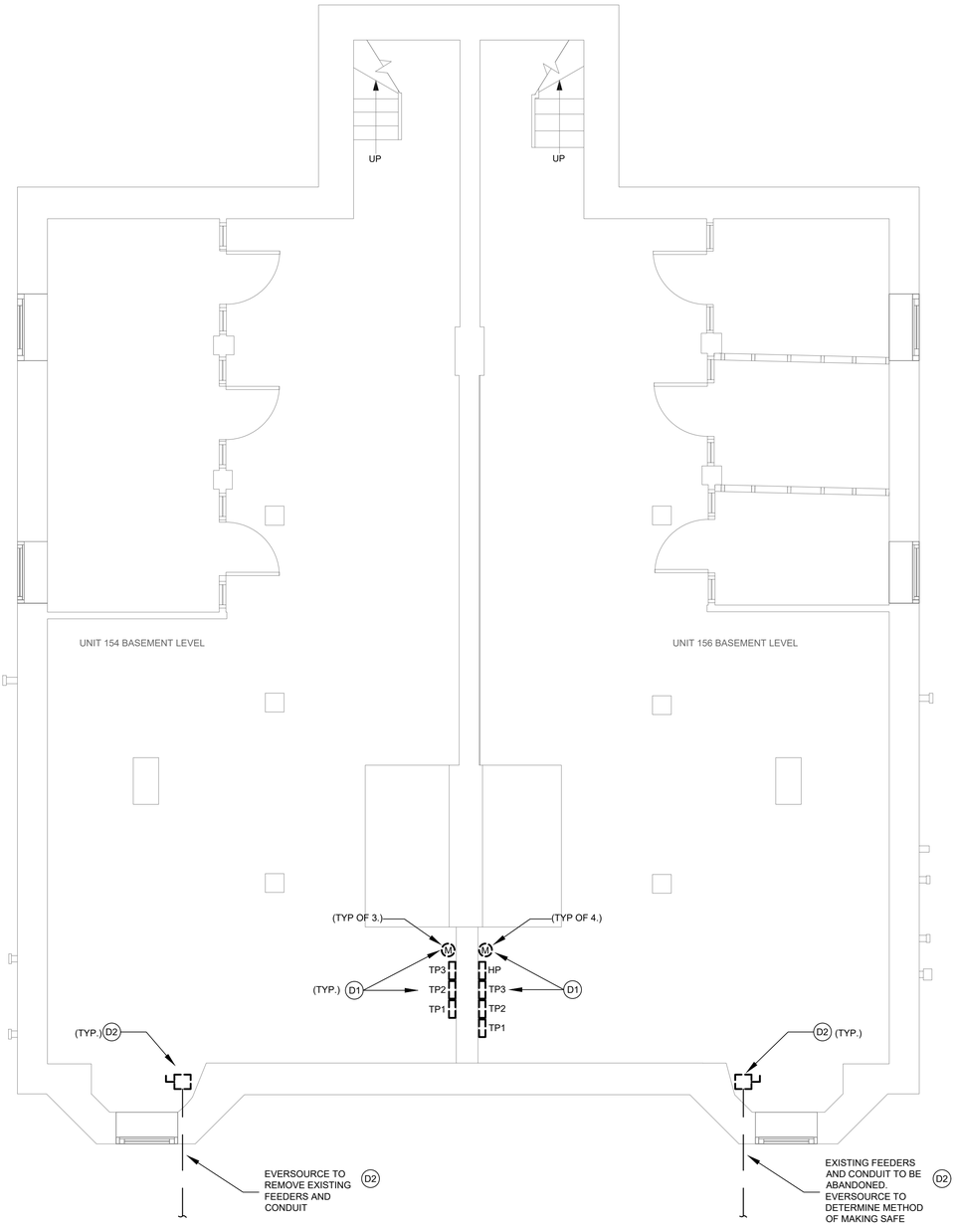


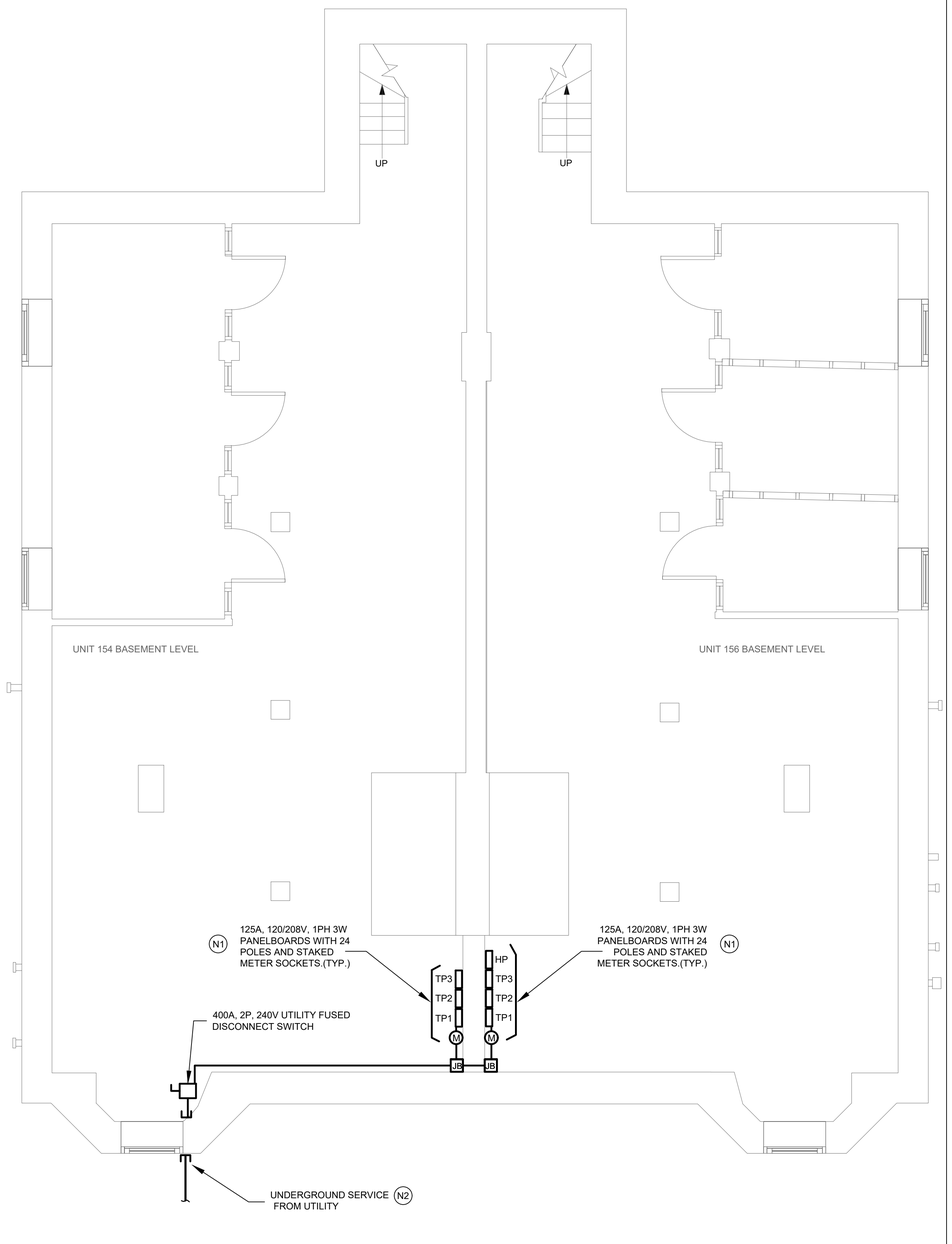
DEMOLITION KEY NOTES:

D1 EXISTING TENANT AND HOUSE PANELBOARD FEEDERS SHALL BE SAFELY DISCONNECTED EXISTING ELECTRICAL SERVICE FEEDER INCLUDING CONDUIT SHALL BE REMOVED BACK TO UTILITY DISCONNECT SWITCH ALL EXISTING PANELBOARDS, SOCKETS AND BRANCH WIRING ARE TO REMAIN UNLESS OTHERWISE NOTED. COORDINATR WITH UTILITY IF EXISTING UTILITY METER CAN BE REUSED

D2 EXISTING 100A, 2P, 240V UTLITY DISCONNECT SWITCH SHALL BE SAFELY DISCONNECTED AND REMOVED. COORDINATE WITH UTILITY PRIOR TO ANY WORK.

1 DEMO ELECTRICAL BASEMENT PLAN

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



NEW WORK KEY NOTES:

N1 EC SHALL PROVIDE NEW PANELBOARDS AS NOTED AND METER BANK SOCKETS. RECONNECT ALL EXISTING BRANCH CIRCUITS. EXTEND AS REQUIRED. CONTRACTOR SHALL COORDINATE OUTAGES WITH THE OWNER REFER TO E-601 FOR MORE INFORMATION

N2 COORDINATE WITH UTILITY FOR EXACT TIE-IN POINT AND SITE WORK. EC SHALL PROVIDE RACEWAY AS REQUIRED BY UTILITY INCLUDING UNDERGROUND CONDUITS AND HANDHOLES.

2 NEW ELECTRICAL BASEMENT PLAN

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

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CAMBRIDGE MA

NO	DATE	REVISION

STAMP:

PROJECT NAME:
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154-156 BOYLSTON ST
BOSTON MA

DRAWING TITLE:
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DRAWING NO:
E-201

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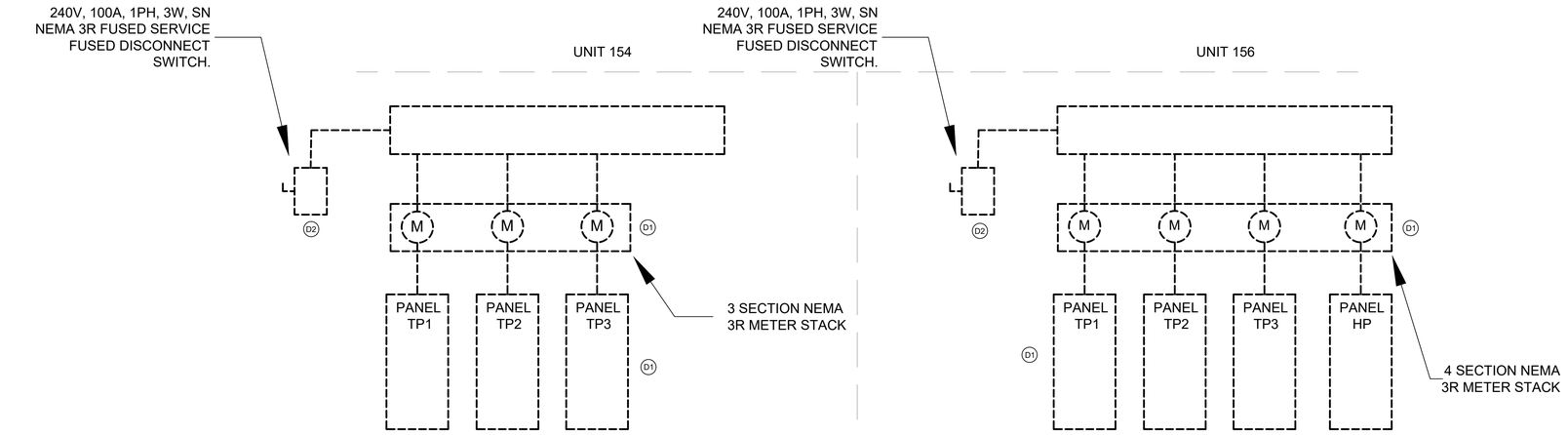
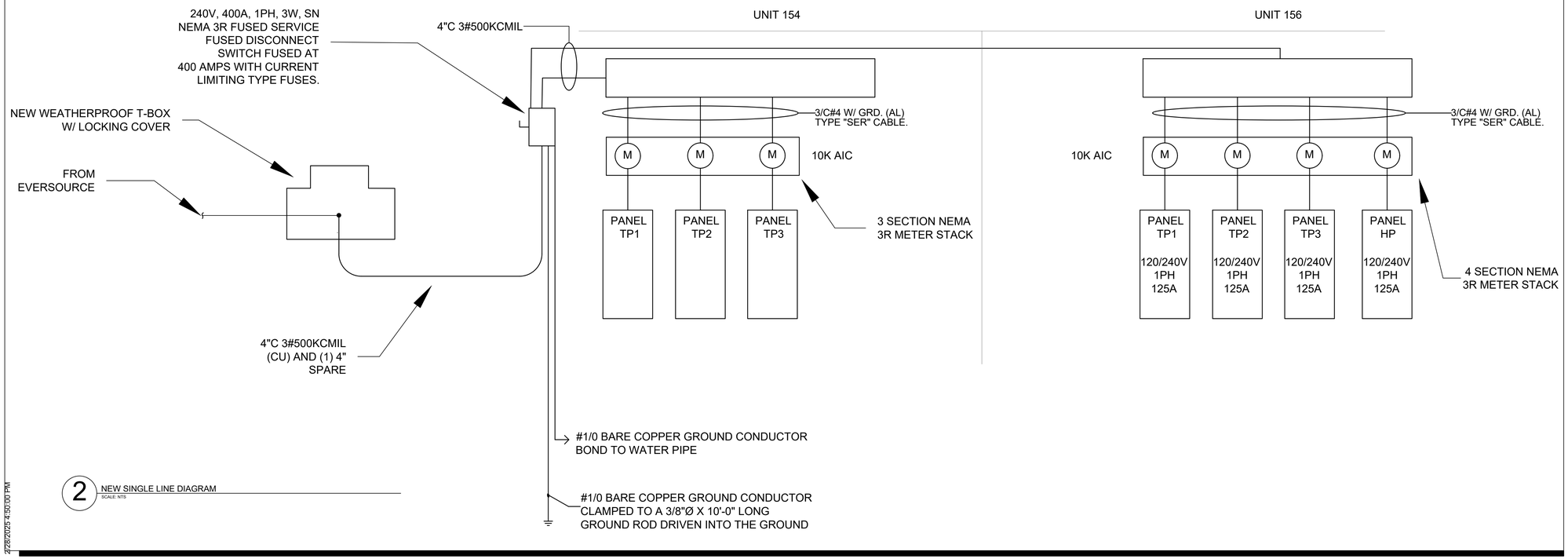


1 DEMO SINGLE LINE DIAGRAM
SCALE: NTS

DEMOLITION KEY NOTES:

(D1) EXISTING TENANT AND HOUSE PANELBOARD FEEDERS SHALL BE SAFELY DISCONNECTED EXISTING ELECTRICAL SERVICE FEEDER INCLUDING CONDUIT SHALL BE REMOVED BACK TO UTILITY DISCONNECT SWITCH ALL EXISTING PANELBOARDS, SOCKETS AND BRANCH WIRING ARE TO REMAIN UNLESS OTHERWISE NOTED. COORDINATR WITH UTILITY IF EXISTING UTILITY METER CAN BE REUSED

(D2) EXISTING 100A, 2P, 240V UTLITY DISCONNECT SWITCH SHALL BE SAFELY DISCONNECTED AND REMOVED. COORDINATE WITH UTILITY PRIOR TO ANY WORK.



2 NEW SINGLE LINE DIAGRAM
SCALE: NTS

2/28/2025 4:55:00 PM

ELEVATED DESIGN INC
CONSULTING ENGINEERS
USING LESS ENERGY. BY DESIGN.
1212 HANCOCK STREET, SUITE 300
QUINCY, MA 02171
P: 724-561-6329

CLIENT:
REISEN DESIGN ASSOCIATES

32R ESSEX STREET, STUDIO 6
CAMBRIDGE MA

NO	DATE	REVISION

STAMP:

PROJECT NAME:
154-156 BOYLSTON ST
ELECTRICAL SERVICE

154-156 BOYLSTON ST
BOSTON MA

DRAWING TITLE:
ELECTRICAL
SINGLE LINE
DIAGRAM

DRAWING NO:
E-601

FILE: [FILE NAME]
DRAWN BY: RE
CHECKED BY: FB
PROJ. NO: P25601B