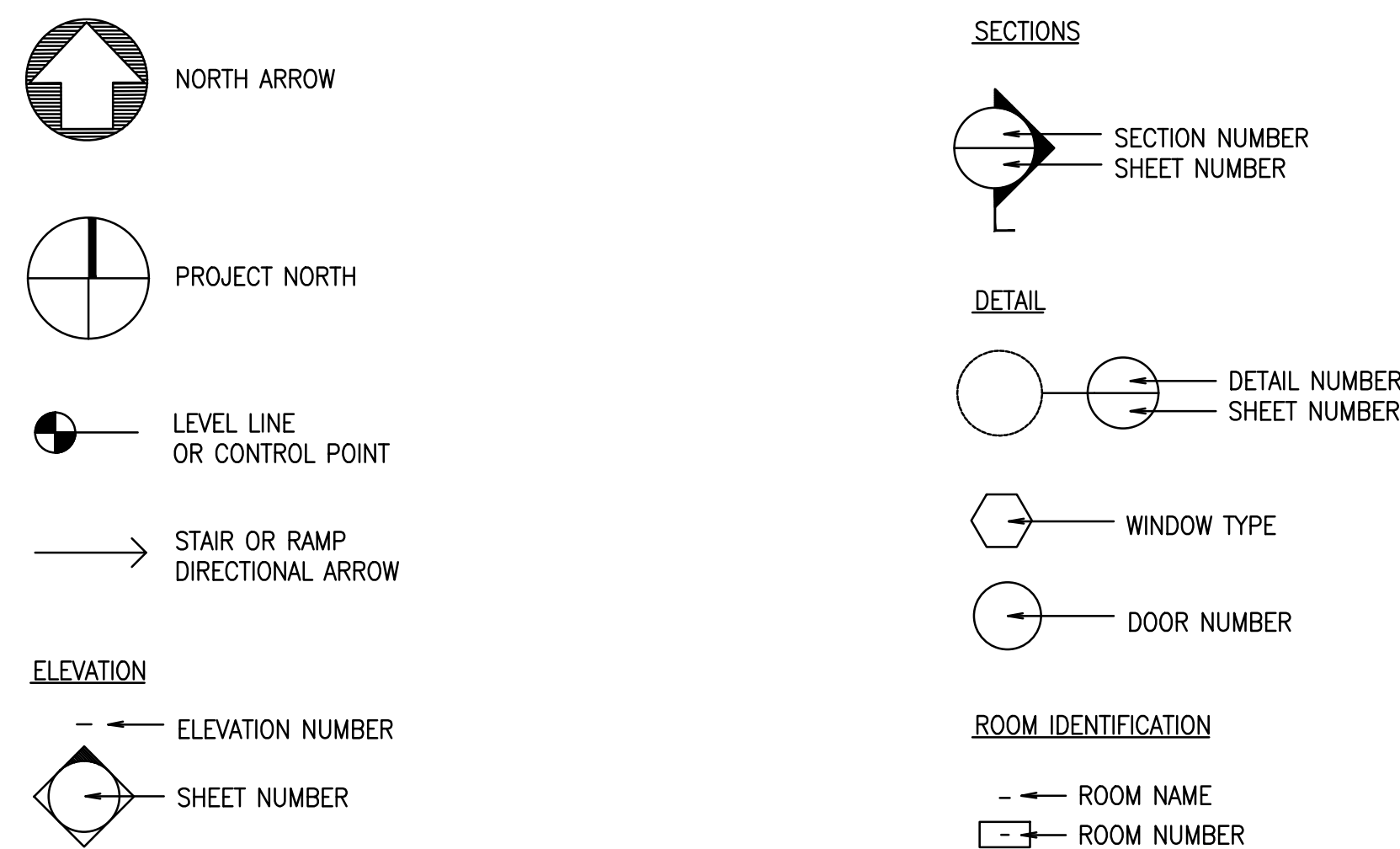


ABBREVIATIONS

| | | | |
|-----------|---|----------|--------------------------------|
| AFB | ABOVE FINISH FLOOR | JT | JOINT |
| ACCOM | ACCOMMODATE | LAM | LAMINATE(D)(ION) |
| ACCORD | ACCORDANCE | LES | LEAD EXPANSION SHIELD |
| AC | ACOUSTIC | LLV | LONG LEG VERTICAL |
| ADJ | ADJUTANT E/ADJACENT | LIN FT | LINIAL FOOT |
| ALT | ALTERNATE | MH | MANHOLE |
| AL | ALUMINUM | MFR | MANUFACTURER |
| AB | ANCHOR BOLTS | MO | MASONRY OPENING |
| APA | AMERICAN FLYWOOD ASSOCIATION | MAX | MAXIMUM |
| ARCH | ARCHITECT(URAL) | MECH | MECHANICAL |
| ASPH CONC | ASPHALT CONCRETE PAVING | MC | MECHANICAL CONTRACTOR |
| BRG | BEARING | MCP | MELAMINE COATED PARTICLE BOARD |
| B PL | BEARING PLATE | MET/MTL | METAL |
| BM | BENCH MARK | MIN | MINIMUM |
| BIT | BITUMINOUS | MLD | MOLDING, MOULDING |
| BIT-DP | BITUMINOUS DAMPPROOFING | MOLTED | MOLTED |
| BLK | BLOCK | NA | NOT APPLICABLE |
| BD | BOARD | NAT | NATURAL |
| BOT | BOTTOM | NIC | NOT IN CONTRACT |
| BRK | BRICK | NTS | NOT TO SCALE |
| BULD | BUILDING | NO OR # | NUMBER |
| CAB | CABINET | OC | ON CENTER |
| CI | CAST IRON | OFF | OFFICE |
| CLG | CEILING | OP PL OF | OPEN PLAN OFFICE |
| CL | CENTER LINE | OS | OPEN WEB STEEL JOISTS |
| CER T | CERAMIC TILE | OD | OUTSIDE DIAMETER |
| CIRC | CIRCULATION | OH | OVERHEAD |
| CL J | CONTROL JOINT | PART | PARTITION |
| CLO | CLOSET | PNT | PAINT(ED) |
| COL | COLUMN | PL | PLATE |
| COMP | COMPUTER | PC | PLUMBING CONTRACTOR |
| CONC | CONCRETE | PLAM | PLASTIC LAMINATE |
| CONF | CONFERENCE | PLYWD | PLYWOOD |
| CMU | CONCRETE MASONRY UNITS | PT | PRESSURE TREATED |
| CONST | CONSTRUCTION | PVC | POLYVINYL CHLORIDE |
| CONT | CONTINUOUS | RWC | RAIN WATER CONDUCTOR |
| COORD | COORDINATE | RECP | RECEPTION |
| DEM | DEMOLISH, DEMOLITION | REINF | REINFORCING |
| DTL | DETAIL | REBAR | REINFORCING BARS |
| DIA | DIAMETER | REP | REPRESENTATIVE |
| DIM | DIMENSION | REQ | REQUIRED |
| DR | DOOR | R/W | RIGHT OF WAY |
| DN | DOWN | RF | ROOF |
| DS | DOWNSPOUT | RF DK | ROOF DECKING |
| DF | DRINKING FOUNTAIN | RD | ROOF DRAIN |
| EL | ELEVATION | RM | ROOM |
| ELEC | ELECTRIC(AL) | RO | ROUGH OPENING |
| EW | ELECTRIC WATER COOLER | SDO | SALVAGE & DELIVER TO OWNER |
| EC | ELECTRICAL CONTRACTOR | SHT | SHEET |
| ELEV | ELEVATION, ELEVATOR | SKL | SKYLIGHT |
| ENG | ENGINEER | SL | SLATE |
| EFS | EXPANDED POLYSTYRENE | SC | SOLID CORE |
| EQ | EQUAL | SPEC | SPECIFICATION |
| EXIST | EXISTING | SPKLR | SPRINKLER |
| EXP JT | EXPANSION JOINT | SS | STAINLESS STEEL |
| EXP | EXPOSED | STD | STANDARD |
| EXT | EXTERIOR | STL | STEEL |
| EXTR PS | EXTRUDED POLYSTYRENE | STL JST | STEEL JOIST |
| FG BATT | FIBERGLASS BATT | STL STD | STEEL STUD |
| FIN | FINISH | STO | STORAGE |
| FE | FIRE EXTINGUISHER | STR | STRUCTURE/STRUCTURAL |
| FEC | FIRE EXTINGUISHER CABINET | STL STL | STRUCTURAL STEEL |
| FF | FINISHED FLOOR | SYS | SYSTEM |
| FRTW | FIRE RESISTANT TREATED WOOD | TEL | TELEPHONE |
| FLG | FLASHING | TEMP | TEMPERED |
| FL | FLOOR | T&G | TONGUE AND GROOVE |
| FD | FLOOR DRAIN | T.O. | TOP OF |
| FTS | FOOTING | TOC | TOP OF CURB |
| GA | GAGE, GAUGE | TOF | TOP OF FOOTER |
| GALV | GALVANIZED | TOS | TOP OF STEEL |
| GL | GLASS | TOW | TOP OF WALL |
| GC | GENERAL CONTRACT(OR) | TYP | TYPICAL |
| GTR | GUTTER | UNO | UNLESS NOTED OTHERWISE |
| GWB | GYPSON DRYWALL (WALLBOARD) | VB | VAPOR BARRIER |
| GWB-X | GWB, TYPE X (FIRE RESISTIVE CLASSIFICATION) | VERT | VERTICAL |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING | VCT | VINYL COMPOSITION TILE |
| HC | HOLLOW CORE | VIF | VERIFY IN FIELD |
| HL-CMU | HOLLOW LOADBEARING CMU | WV | VINYL WALL BASE |
| HM | HOLLOW METAL STEEL | WVC | VINYL WALL COVERING |
| HORIZ | HORIZONTAL | WAIT | WAITING |
| HR | HOUR | W/F | WELDED WIRE FABRIC |
| HT | HEIGHT | W/ | WITH |
| ID | INSIDE DIAMETER | W/O | WITHOUT |
| INS | INSULATE(D)(ION) | WOL | WOLMANIZED |
| INT | INTERIOR | WD | WOOD |
| INV | INVERT | | |
| JST | JOIST | | |

NOTE: NOT ALL ABBREVIATIONS LISTED ARE APPLICABLE TO THIS PROJECT

ANNOTATION SYMBOLS



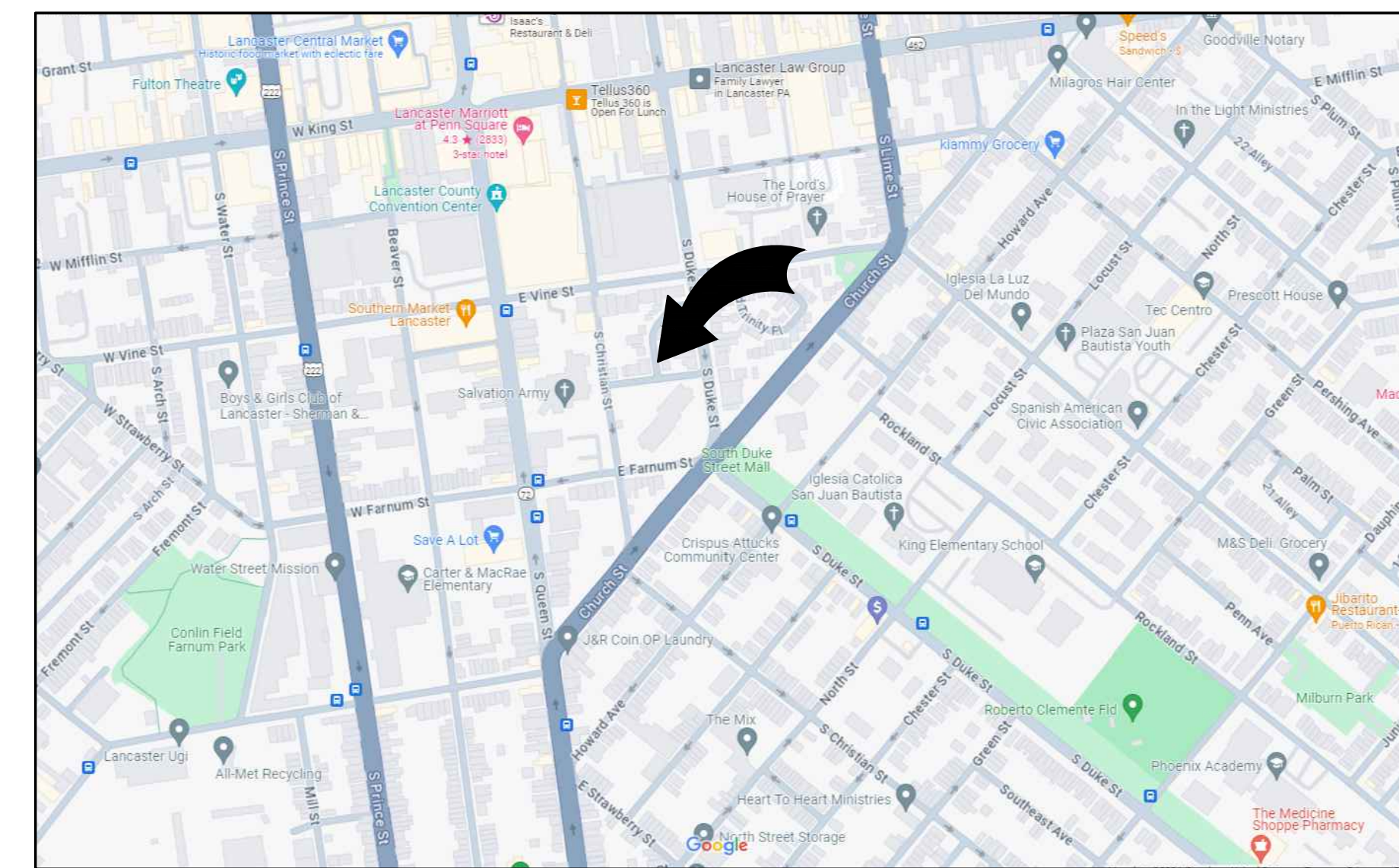
CONSTRUCTION NOTES

- REVIEW HARDWARE SCHEDULE, INTERIOR ELEVATIONS, & DETAILS, & PROVIDE FIRE TREATED SOLID WOOD BLOCKING INSIDE FIRE-RATED STUD WALLS & SOLID WOOD BLOCKING INSIDE STUD WALLS WHERE SOLID ANCHORAGE IS REQUIRED.
- WHERE EXISTING CONSTRUCTION IS CUT & PATCHED, REPAIR ALL ADJACENT SURFACES DISTURBED BY CUTTING & PATCHING & PREPARE TO RECEIVE NEW CONSTRUCTION &/OR NEW SCHEDULED FINISHES. REPAIRS SHALL MATCH EXISTING ADJACENT &/OR SIMILAR SURFACES & MATERIALS. TRANSITIONS BETWEEN NEW & EXISTING CONSTRUCTION SHALL BE SMOOTH & UNNOTICEABLE.
- ALL FINISHED SURFACES IN THIS PROJECT ARE TO BE PATCHED & REPAIRED TO MATCH ADJACENT OR SIMILAR CONSTRUCTION & PREPARED TO RECEIVE SPECIFIED FINISHES. THIS INCLUDES DAMAGED FLOORING, PLASTER, WOOD TRIM, CASINGS, SILLS & DOORS, WINDOW GLASS & MASONRY. TRANSITIONS BETWEEN NEW REPAIRS & EXISTING CONSTRUCTION SHALL BE SMOOTH & UNNOTICEABLE.
- ALL MTL THAT COMES INTO CONTACT WITH PT WOOD SHALL BE STAINLESS OR GALV. STEEL. THIS INCLUDES BUT IS NOT LIMITED TO FASTNERS, FLASHING AND JOIST HANGERS. STRUCTURAL STL SHALL BE PRIMED AND PAINTED PRIOR TO CONTACT WITH PT WOOD.
- REPAIR ANY DAMAGE TO EXISTING OR NEW FIRE-RATED ENCLOSURES, CEILINGS AND WALLS.
- SEAL AND FIRESTOP ALL PENETRATIONS AND OPENINGS IN ANY FIRE-RATED CONSTRUCTION USING PROPER FIRESTOPPING PRODUCTS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- EMERGENCY LIGHTING SYSTEM: PROVIDE A MINIMUM OF ONE FOOT CANDLE OF ILLUMINATION FOR A MINIMUM DURATION OF ONE HOUR AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND IBC.
- MAKE CHANGES OR ADDITIONS TO THE EMERGENCY LIGHTING AND EXIT LIGHTING SYSTEMS AS REQUIRED BY THE CODE OFFICIAL. DURING THE JOB SITE INSPECTIONS THE CODE OFFICIAL MAY REQUIRE CHANGES OR ADDITIONS TO THE SYSTEMS.
- ALL MEANS OF EGRESS TO BE FREE & CLEAR AT ALL TIMES.

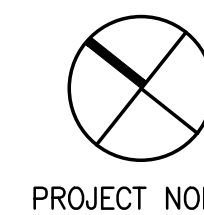
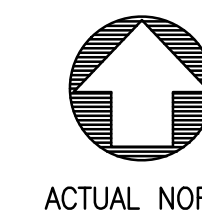
DEMOLITION AND ALTERATIONS FOR LANCASTER CITY HOUSING AUTHORITY LANCASTER, PA

HAMMEL ASSOCIATES ARCHITECTS, LLC Lancaster, PA

(717) 393.3713 FAX (717) 393.8227
WEB: WWW.HAMMELARCH.COM EMAIL: INFO@HAMMELARCH.COM



LOCATION MAP
NOT TO SCALE



ACTUAL NORTH

PROJECT NORTH

JOINT SEALER SCHEDULE

| DRAWING DESIGNATION | SEALANT TYPE | DESCRIPTION OF JOINT CONSTRUCTION AND LOCATION WHERE JOINT SEALER IS TYPICALLY APPLIED. (SEE NOTE BELOW) |
|---------------------|--|---|
| ES-1 | ONE-PART NONACID-CURING SILICONE SEALANT | EXTERIOR & INTERIOR VERTICAL JOINTS BETWEEN METAL & CONCRETE, UNIT MASONRY MORTAR, OR STONE; INTERIOR & EXTERIOR PERIMETER JOINTS OF METAL & WOOD FRAMES IN EXTERIOR WALLS; & EXTERIOR OVERHEAD JOINTS. |
| ES-2 | MULTI-PART POURABLE URETHANE SEALANT | EXTERIOR & INTERIOR JOINTS IN HORIZONTAL SURFACES OF CONCRETE; BETWEEN METAL & CONCRETE, MORTAR & MASONRY. |
| ES-3 | ONE-PART ACID-CURING SILICONE SEALANT | EXPOSED JOINTS WITHIN GLAZED CURTAIN WALL FRAMING SYSTEM, & ALUMINUM ENTRANCE FRAMING SYSTEM. |
| ES-4 | ONE-PART MILDEW-RESISTANT SILICONE SEALANT | RESTROOMS, LOCKER & SHOWER AREAS |
| ES-5 | TWO-PART URETHANE SEALANT | VERTICAL & HORIZONTAL JOINTS OF CONCRETE, BETWEEN CONCRETE, POOL & CONCRETE DECK. |
| LS | ACRYLIC-EMULSION SEALANT | INTERIOR JOINTS IN FIELD-PAINTED VERTICAL & OVERHEAD SURFACES AT PERIMETER OF HOLLOW METAL DOOR FRAMES; IN GYPSUM DRYWALL, PLASTER & CONCRETE OR CONCRETE MASONRY; & ALL OTHER INTERIOR JOINTS NOT INDICATED OTHERWISE. |
| BAS-1 | BUTYL-ASPHALT SEALANT, AC-20 IN ACCORDANCE WITH PA. DEPT. TRANSPORTATION TITLE 40B SPECIFICATIONS. | EXTERIOR JOINTS BETWEEN EXISTING & NEW ASPHALT PAVING & ASPHALT PAVING & MASONRY OR CONCRETE. |
| FSS-1 | FOAMED-IN-PLACE FIRE-STOPPING SEALANT | THROUGH PENETRATIONS IN FIRE RESISTANCE RATED FLOOR & WALL ASSEMBLIES INVOLVING MULTIPLE PIPES, CONDUITS & OTHER ITEMS. |
| FSS-2 | ONE-PART FIRE-STOPPING SEALANT | THROUGH PENETRATIONS IN FIRE RESISTANCE RATED FLOOR & WALL ASSEMBLIES INVOLVING SINGLE PIPES, CONDUITS & WHERE JOINT WIDTHS ARE NARROW. |

NOTE: INSTALL JOINT SEALANTS IN ACCORDANCE WITH DESCRIPTIONS AND LOCATIONS LISTED, AND IN LOCATIONS IDENTIFIED ON DRAWINGS BY DRAWING DESIGNATIONS LISTED ABOVE.

BUILDING DATA (2018 IBC)

| | |
|----------------------------------|---------------|
| OCCUPANCY: | USE GROUP R-2 |
| CONSTRUCTION TYPE: | 1B |
| BUILDING HEIGHT: | EXISTING |
| FIRE ALARM SYSTEM: | EXISTING |
| EMERGENCY LIGHTING: | EXISTING |
| AUTOMATIC SPRINKLERS: | EXISTING |
| AUTOMATIC FIRE DETECTION SYSTEM: | EXISTING |
| FIRE SEPARATION: | NONE REQUIRED |

| | |
|-----------------------|---------------------|
| BUILDING AREA: | GROUND FLOOR |
| EXISTING | 13,425 SF |
| WORK AREA | 605 SF |

BUILDING CODE REQUIREMENTS

- ALL WORK SHALL CONFORM TO THE FOLLOWING CODE REGULATIONS AND REQUIREMENTS:
- COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT OF LABOR & INDUSTRY:
 - PENNSYLVANIA UNIFORM CONSTRUCTION CODE: 2018 INTERNATIONAL EXISTING BUILDING CODE AND REFERENCED STANDARDS
 - CITY OF LANCASTER BUILDING ORDINANCE AND ALL REFERENCED REGULATIONS (BUILDING, EXISTING BUILDING, PLUMBING, ELECTRICAL, MECHANICAL, FUEL GAS, PERFORMANCE, RESIDENTIAL, FIRE, ACCESSIBILITY AND ENERGY CODE WHERE APPLICABLE)

DRAWING INDEX

| | |
|----------------------|-------------------------------|
| CS.1.1 | COVER SHEET |
| ARCHITECTURAL | |
| A1.1 | PLANS, ELEVATIONS AND DETAILS |
| ELECTRICAL | |
| ED.1 | SYMBOLS |
| E1.0 | FIRST FLOOR PLAN |
| E2.0 | RISER DIAGRAM |

ALL DIMENSIONS, MEASUREMENTS AND PROJECT CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR. REFER ALL DIFFERENCES, IN WRITING, TO THE ARCHITECT FOR CONSIDERATION PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BEAR THE COST OF RECTIFYING WORK NOT APPROVED BY THE ARCHITECT, CAUSED BY LACK OF COORDINATION AND/OR NOTIFICATION.

STAMP

LIST OF ALTERNATES:

ADD ALTERNATE #EC-1

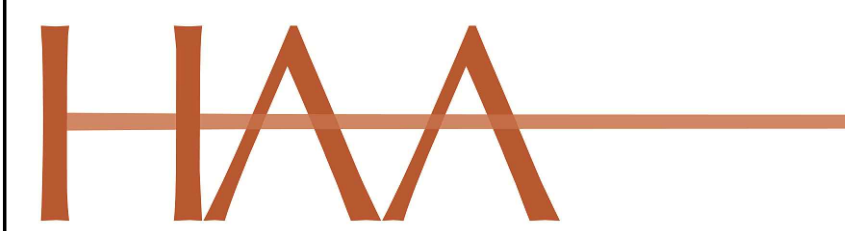
INCLUDE THE AMOUNT TO BE ADDED TO THE BASE BID TO PROVIDE LABOR AND MATERIALS ASSOCIATED WITH THE INSTALLATION OF THE NEW DISTRIBUTION PANEL DP1, REWORKING AND THE EXTENSION OF THE CIRCUITS FROM THE EXISTING 800-AMP PENELBOARD TO THE NEW DISTRIBUTION PANEL.

DEDUCT ALTERNATE #EC-2

INCLUDE THE AMOUNT TO BE DEDUCTED FROM THE BASE BID TO PROVIDE ALUMINUM CONDUCTORS IN CONDUIT IN LIEU OF COPPER CONDUCTORS IN CONDUIT AS SPECIFIED EXTENDING FROM THE BUSSING IN THE C.T. SECTION OF THE EXISTING SWITCHBOARD TERMINATED IN THE MAIN BREAKER SECTION OF THE NEW SWITCHBOARD.

REVISIONS

KEY PLAN



HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St, Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

LANCASTER CITY
HOUSING AUTHORITY

PROJECT DESCRIPTION

FARNUM ST EAST SWITCHBOARD AND SERVICE UPGRADE
33 FARNUM ST
LANCASTER, PA 17602

SHEET TITLE COVER SHEET

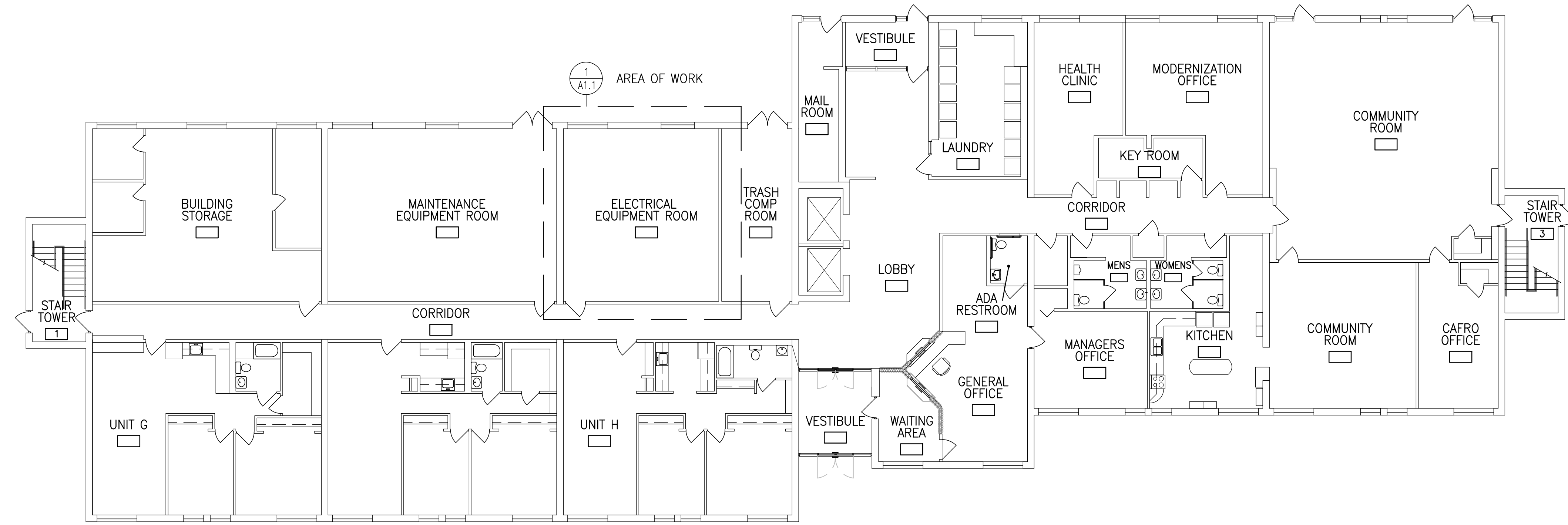
ISSUE DATE 2024.08.27 SCALE AS NOTED

FILE NUMBER 2433 DRAWN BY SPD CHECKED BY TLY

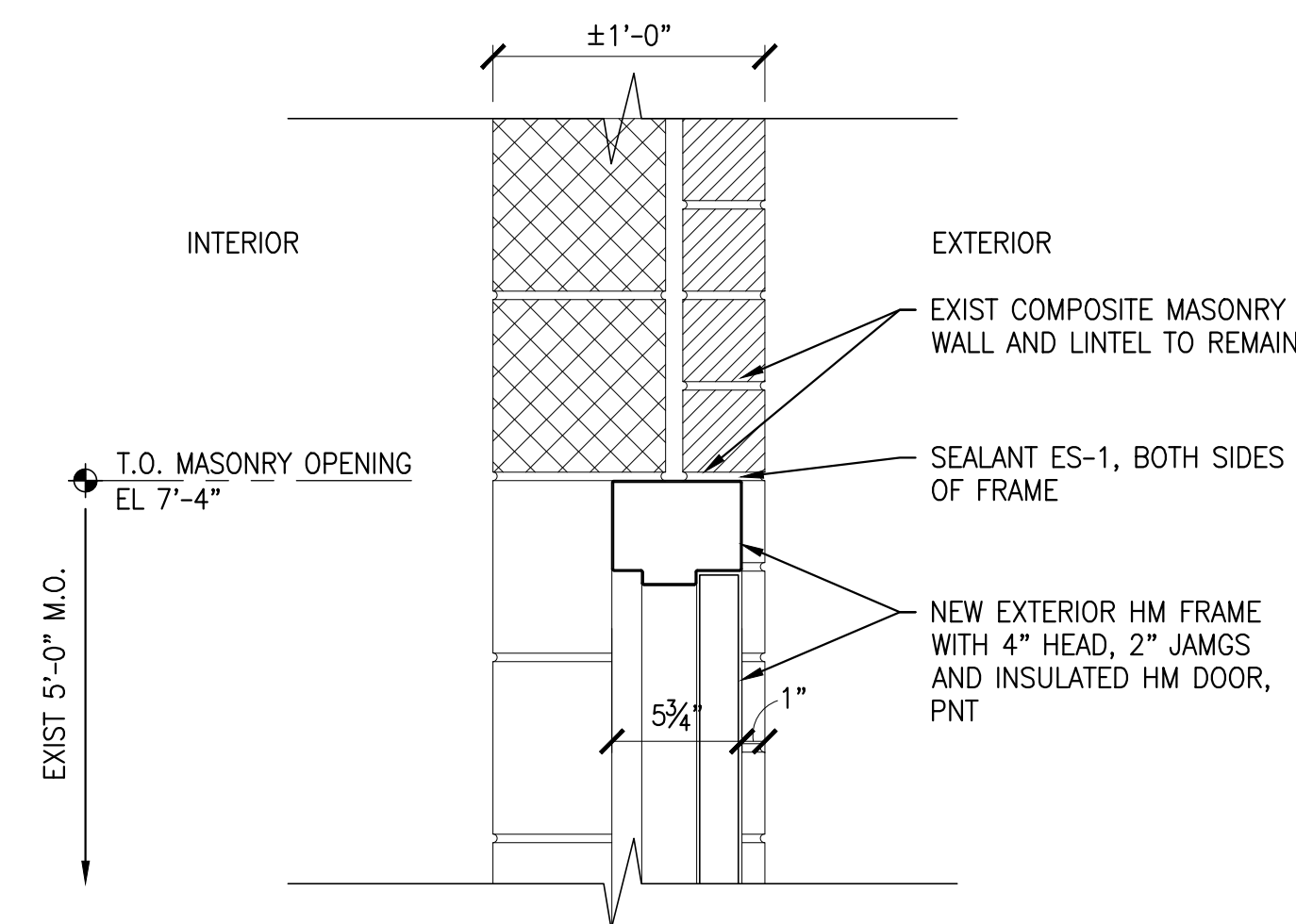
CS1.1

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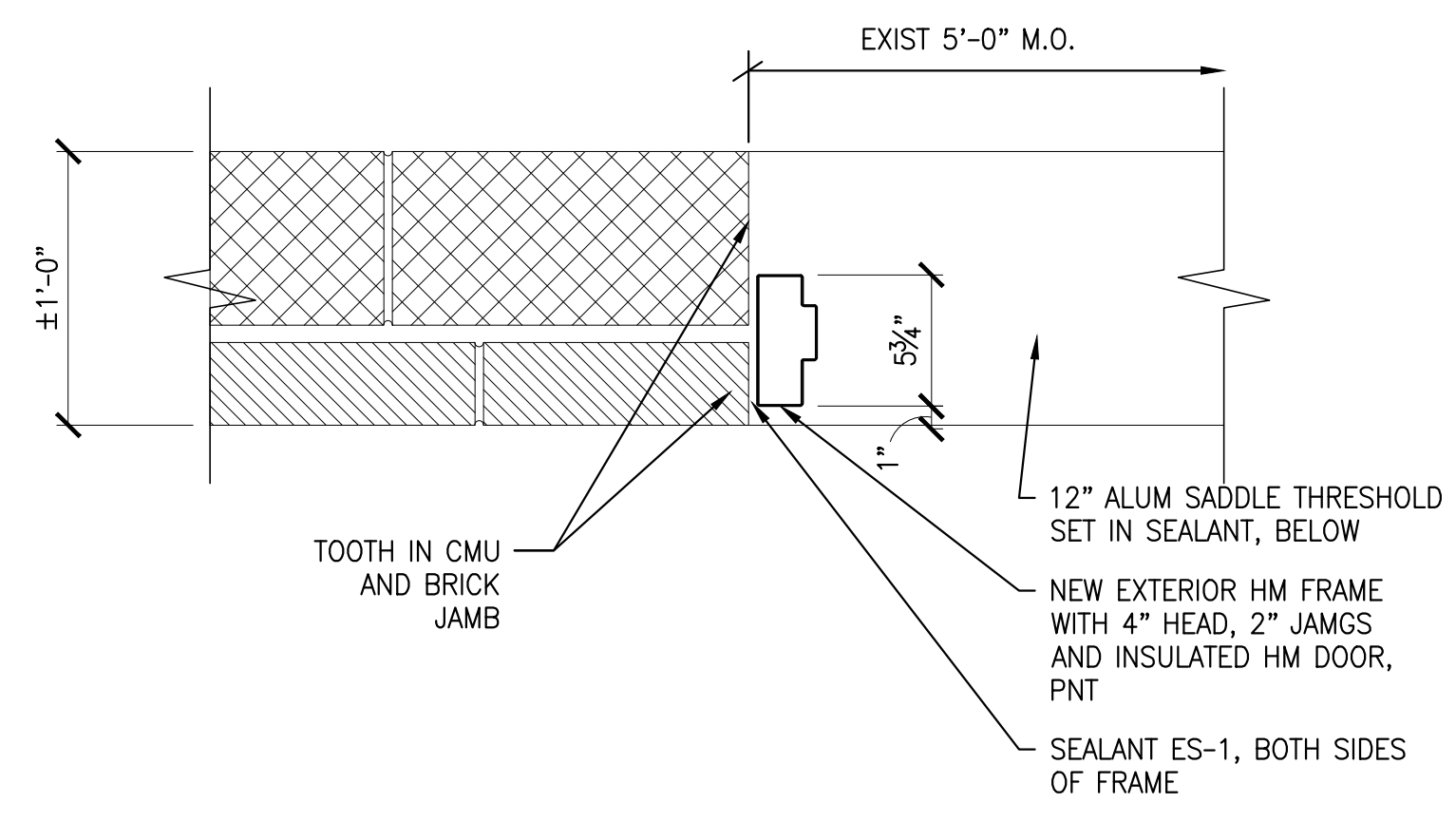
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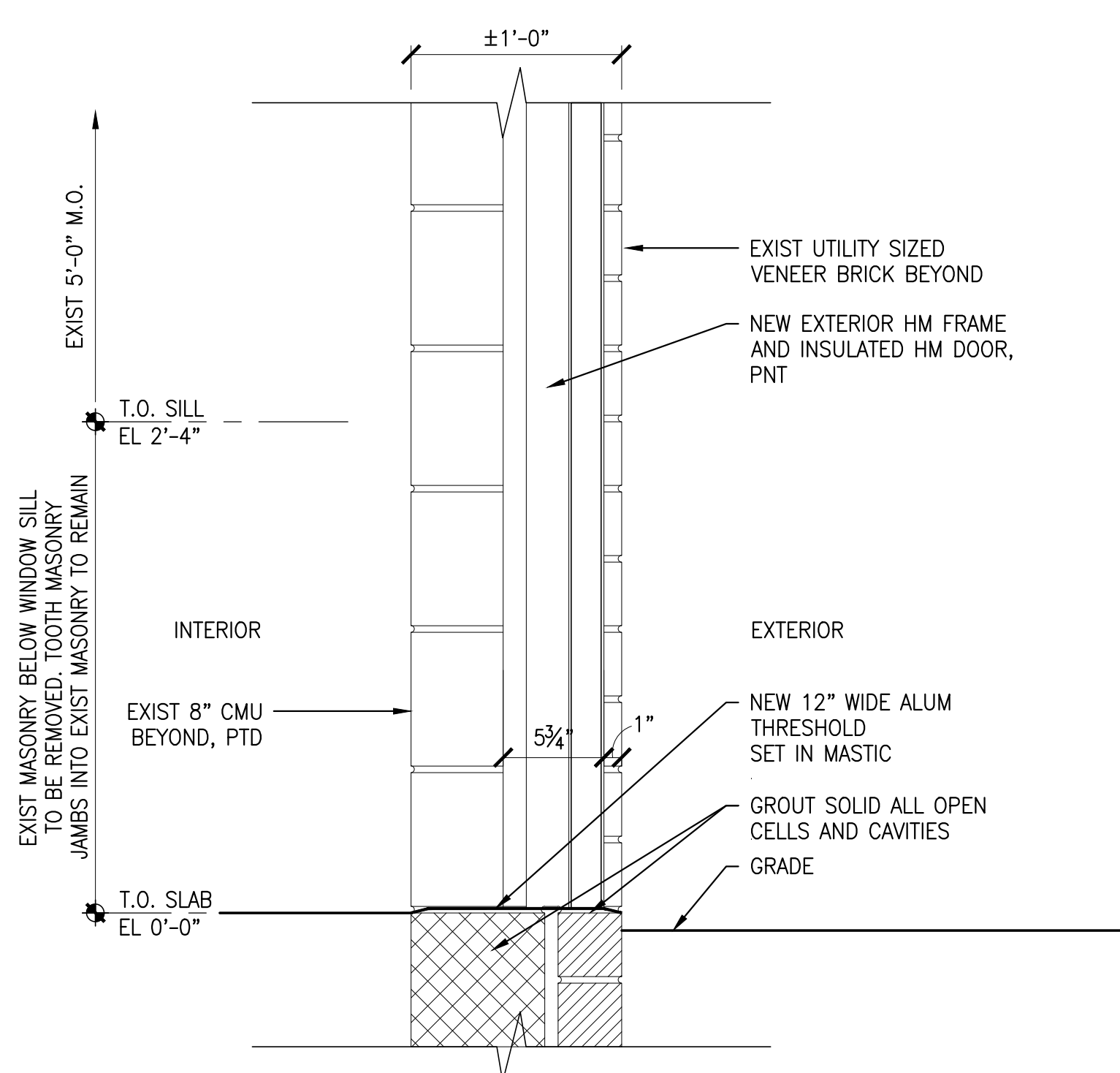
FIRST FLOOR KEY PLAN
 3/32" = 1'-0"



INILLED WINDOW OPENING HEAD DETAIL
 1 1/2" = 1'-0"

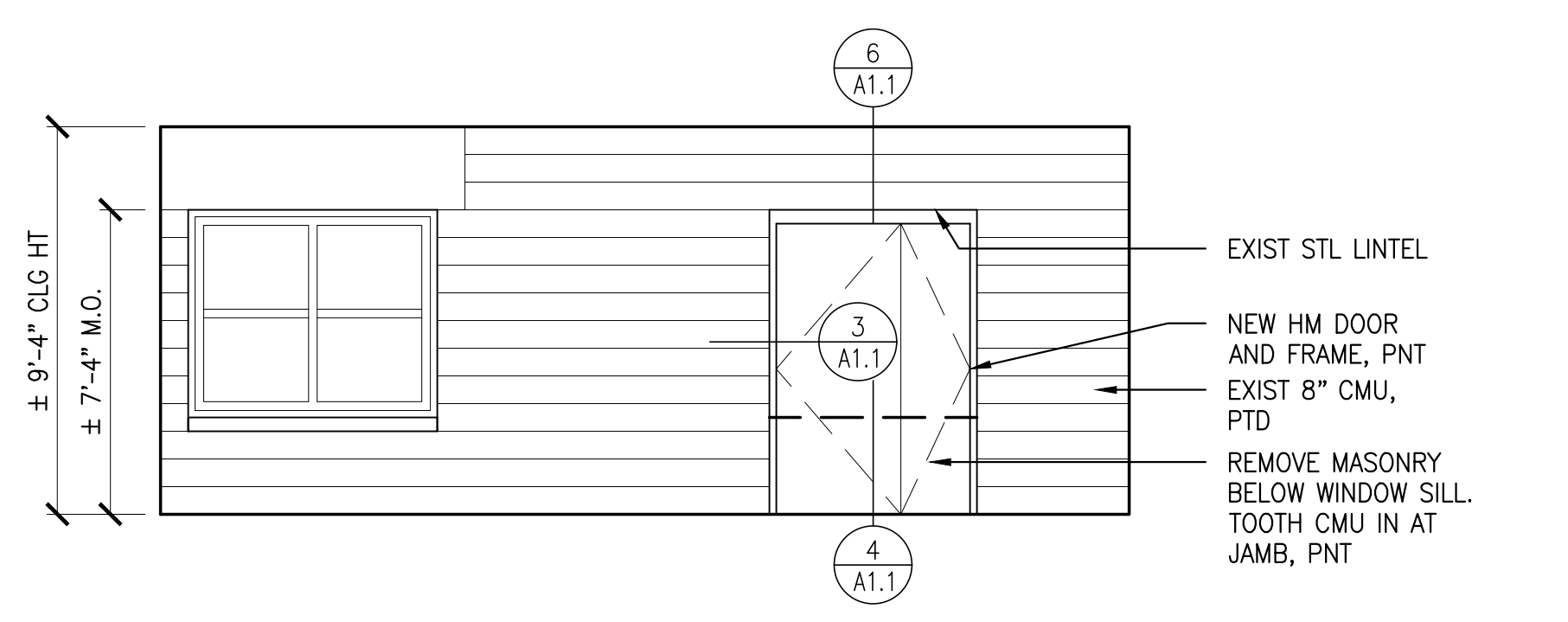


INILLED WINDOW OPENING JAMB DETAIL
 1 1/2" = 1'-0"

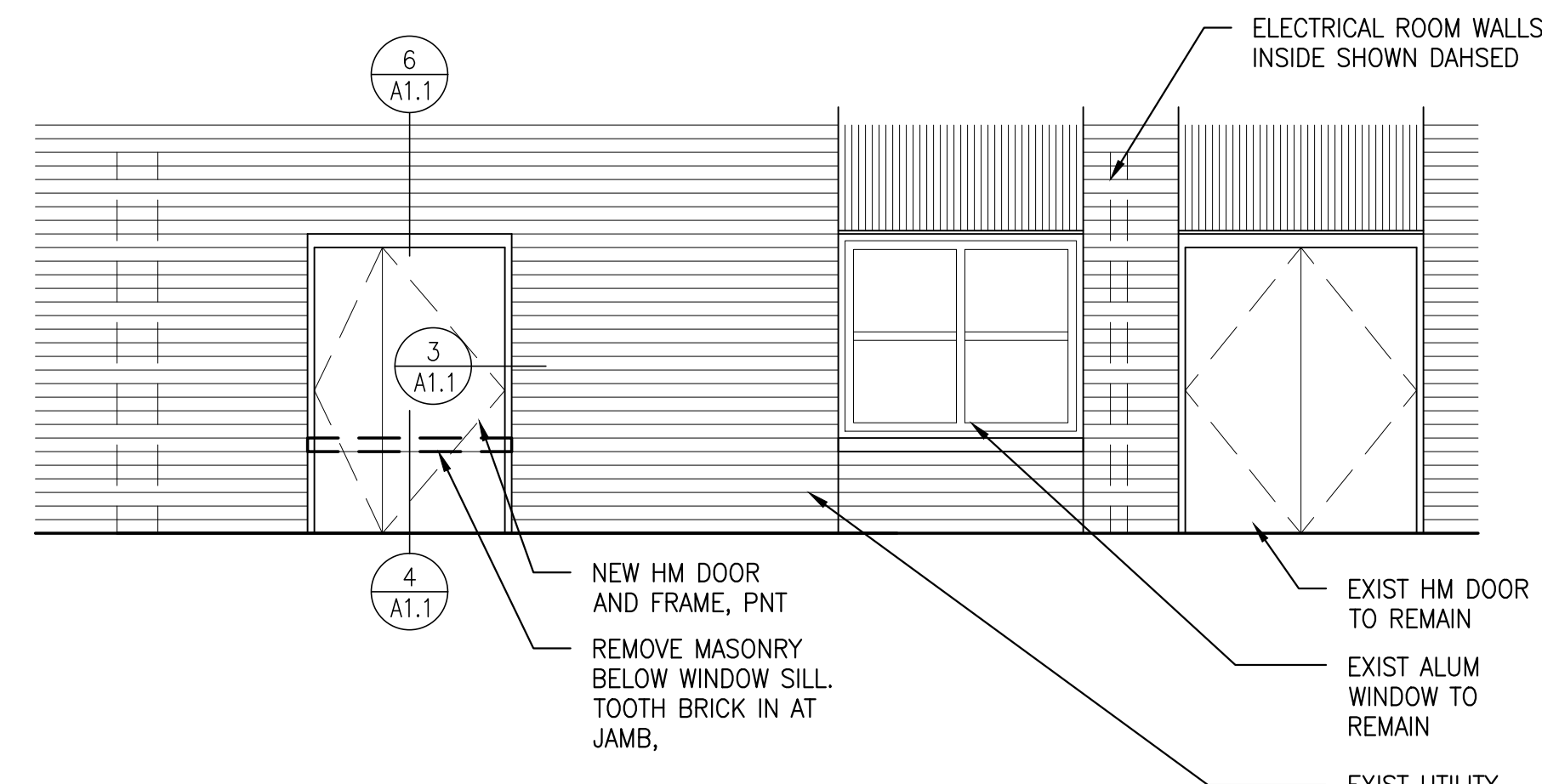


INILLED WINDOW OPENING SILL DETAIL
 1 1/2" = 1'-0"

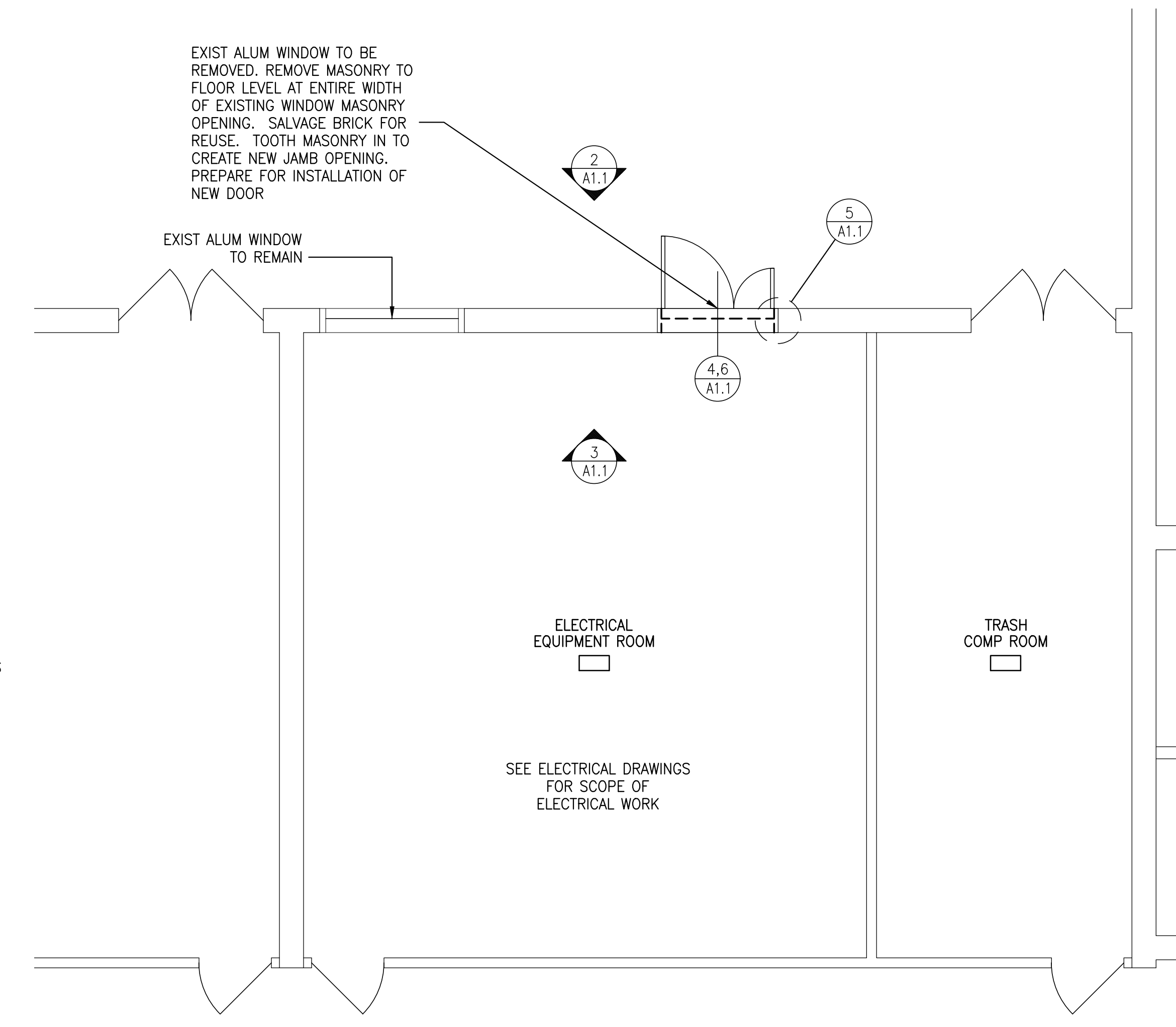
- NEW DOOR SPECIFICATIONS:**
- NEW PAIR DOORS
 - 3'-0" (ACTIVE LEAF)
 - 1'-8" (PASSIVE LEAF)
 - HM FRAME, WITH 4" HEAD AND 2" JAMB, PNT
 - INSULATED HM DOOR, PNT
 - PROVIDE HARDWARE GROUP A (SEE SPECIFICATIONS)
 - PROVIDE 12" ALUM SADDLE THRESHOLD, TO FIT ENTIRE WIDTH OF WALL
 - VERIFY ALL DIMENSIONS IN FIELD



PARTIAL INTERIOR ELEVATION
 1/4" = 1'-0"



PARTIAL EXTERIOR ELEVATION
 1/4" = 1'-0"



ENLARGED ELECTRICAL EQUIPMENT ROOM PLAN
 1/4" = 1'-0"

REVISIONS

KEY PLAN



HAMMEL ASSOCIATES ARCHITECTS, LLC
 25 E. Grant St., Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

LANCASTER CITY HOUSING AUTHORITY

PROJECT DESCRIPTION

FARNUM ST EAST SWITCHBOARD AND SERVICE UPGRADE
 33 FARNUM ST
 LANCASTER, PA 17602

SHEET TITLE PLANS, ELEVATIONS AND DETAILS

ISSUE DATE 2024.08.27

SCALE AS NOTED

FILE NUMBER 2433

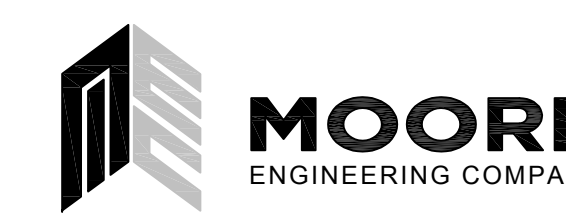
DRAWN BY SPD

CHECKED BY TV

A1.1

All dimensions, measurements and project conditions shall be checked and verified in the field by the contractor. Refer all differences, in writing, to the architect for consideration prior to proceeding with the work. The contractor shall bear the cost of rectifying work not approved by the architect, caused by lack of coordination and or notification.

STAMP



3637 Columbia Avenue, Lancaster PA 17603
P: 717.285.3141, MooreEngineering.com

RECEPTACLES/FLOORBOXES/POWER POLES

| SYMBOL | DESCRIPTION |
|--------|---|
| | 120V DUPLEX RECEPTACLE |
| | 120V DUPLEX RECEPTACLE - CEILING MOUNTED |
| | 120V QUAD RECEPTACLE |
| | 120V QUADUPLEX RECEPTACLE - CEILING MOUNTED |
| | 120V SIMPLEX RECEPTACLE |
| | 120V DUPLEX RECEPTACLE - TOP HALF SWITCHED |
| | 120V DUPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER |
| | 120V QUADUPLEX RECEPTACLE - CONNECTED TO NORMAL/EMERGENCY POWER |
| | 14-50R RANGE RECEPTACLE WITH MATCHING PLUG AND CORD |
| | 14-30R DRYER RECEPTACLE WITH MATCHING PLUG AND CORD |
| | SIMPLEX RECEPTACLE WITH NEMA CONFIGURATION AS NOTED |
| | 120V RECEPTACLES CORDREEL HUNG FROM WALL/CEILING UNLESS OTHERWISE NOTED |
| | 208V/240V CORDREEL HUNG FROM WALL/CEILING - PROVIDE WITH NEMA RECEPTACLE TO MATCH EQUIPMENT CORD/PLUG |
| | RECESSED MULTI-SERVICE FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED |
| | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLOOR BOX/POKE-THRU FOR FURNITURE FEED |
| | PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | RECESSED MULTI-SERVICE FLUSH FLOOR BOX/MULTI-SERVICE POKE-THRU FOR MOUNTING DEVICES INDICATED |
| | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | PEDESTAL-TYPE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLUSH FLOOR BOX/POKE-THRU FOR RECEPTACLE AND DATA DEVICES INDICATED |
| | MULTI-SERVICE FLOOR BOX FOR MOUNTING DEVICES INDICATED |
| | FLOOR BOX/POKE-THRU FOR FURNITURE FEED AND DATA DEVICES INDICATED |
| | POWER POLE FOR MOUNTING DEVICES INDICATED (HEIGHT AS REQUIRED) |

RECEPTACLES - ATTRIBUTES

| | |
|------|---|
| B | MOUNTED HORIZONTALLY IN BASEBOARD KICK SPACE |
| H | HOSPITAL GRADE DEVICE INSTALLED PER NEC ARTICLE 517 FOR HEALTH CARE FACILITIES |
| GF | INTEGRAL GROUND FAULT |
| IG | ISOLATED GROUND |
| SI | INTEGRAL SURGE PROTECTION, ISOLATED GROUND |
| SP | INTEGRAL SURGE PROTECTION |
| TR | TAMPER RESISTANT (CHILD PROOF) |
| WC | DEDICATED FOR WATER COOLER, MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE WATERCOOLER TRANSFORMER |
| VM | DEDICATED FOR VENDING MACHINE |
| M | MICROWAVE RECEPTACLE, REFER TO ARCHITECTURAL ELEVATION FOR HEIGHT/LOCATION |
| L | GROUND FAULT RECEPTACLE FOR LAVATORY TRANSFORMER, MOUNT AT THE HEIGHT/LOCATION REQUIRED BY THE LAVATORY TRANSFORMER |
| WP | WEATHERPROOF IN-USE COVER |
| 00" | MOUNT AT HEIGHT TO CENTER INDICATED |
| - | MOUNT AT 8" ABOVE COUNTER |
| XP | EXPLOSION PROOF |
| U | DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGER |
| 4U | 4 PORT USB CHARGER RECEPTACLE |
| SP/P | INTEGRAL SURGE PROTECTION, MOUNTED AT PROJECTOR HEIGHT (VERIFY WITH OWNER) |
| SP/T | INTEGRAL SURGE PROTECTION, MOUNTED AT TELEVISION HEIGHT (VERIFY WITH OWNER) |

TELECOMMUNICATIONS - ATTRIBUTES

| | |
|-----|---|
| 00" | MOUNT AT HEIGHT TO CENTER INDICATED |
| - | MOUNT AT 8" ABOVE COUNTER |
| C# | COMPUTER OUTLET - # INDICATES NUMBER OF JACKS |
| TS | TEACHER STATION |
| P | PROJECTOR OUTLET |
| PS | PRESENTER STATION |
| TV | TELEVISION OUTLET |

WIRING

| SYMBOL | DESCRIPTION |
|--------|---|
| | CONDUIT & WIRE |
| | CONDUIT & WIRE UNDERFLOOR OR UNDERGROUND |
| | HOME RUN WITH PANEL & CIRCUIT NUMBER NOTED |
| | MULTIPLE SWITCHED CIRCUITS FED FROM SAME HOME RUN |
| | UNDERGROUND |
| | OVERHEAD |
| | EMERGENCY ONLY CIRCUIT |
| | CONDUIT DOWN |
| | CONDUIT UP |
| | END OF CONDUIT |

INTERCOMMASTER CLOCK/SOUND SYSTEMS

| SYMBOL | DESCRIPTION |
|--------|--|
| | 1 MICROPHONE INLET |
| | MICROPHONE INLETS ON ONE PLATE (QUANTITY AS INDICATED) |
| | CEILING MOUNTED HANGING MICROPHONE INLET |
| | 1 FLOOR MOUNTED MICROPHONE INLET |
| | FLOOR MOUNTED MICROPHONE INLETS (QUANTITY AS INDICATED) |
| | AUXILIARY INPUT JACK |
| | LOCAL SOUND WALL MOUNTED SPEAKER |
| | LOCAL SOUND CEILING MOUNTED SPEAKER |
| | PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER |
| | PAGING INTERCOM SYSTEM CEILING MOUNTED SPEAKER, NON IP BASED |
| | PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER |
| | PAGING INTERCOM SYSTEM WALL MOUNTED SPEAKER, NON IP BASED |
| | WALL MOUNTED EXTERIOR SPEAKER |
| | VOLUME CONTROL |
| | MONITOR SPEAKER JACK |
| | CALL SWITCH |
| | CLOCK/SPEAKER COMBINATION |
| | WALL CLOCK |
| | DUAL FACE CLOCK |

VIDEO SURVEILLANCE/ACCESS CONTROL SYSTEM

| SYMBOL | DESCRIPTION |
|--------|--|
| | ACCESS SYSTEM CARD READER |
| | ACCESS SYSTEM KEYPAD |
| | HANDICAP (ADA) DOOR OPERATOR PUSH PAD |
| | INTRUSION DETECTION SYSTEM WALL MOUNTED MOTION DETECTOR |
| | INTRUSION DETECTION SYSTEM CEILING MOUNTED MOTION DETECTOR |
| | INTRUSION DETECTION SYSTEM WALL MOUNTED AUDIO SOUNDER |
| | CEILING MOUNTED CAMERA |
| | WALL MOUNTED CAMERA |
| | 360 DEGREE CEILING MOUNTED CAMERA |
| | ELECTRIC STRIKE FOR DOOR ACCESS SYSTEM |
| | GLASS BREAK SENSOR - CEILING MOUNTED UNLESS OTHERWISE INDICATED |
| | ACCESS CARD SYSTEM DOOR CONTACT |
| | DOOR HARDWARE PACKAGE PER SPECIFICATIONS, PROVIDE 3/4" CONDUIT AND WIRING TO ALL EQUIPMENT SHOWN IN THE HARDWARE SETS/SCHEDULES, DRAWINGS, AND AS NEEDED FOR ALL ASSOCIATED SYSTEMS. DOOR SHALL OPERATE AS DESCRIBED IN THE NOTES OF THE SPECIFICATIONS AND THE PROJECTS REQUIREMENTS. |
| | INTERCOM/CAMERA ENTRANCE STATION |
| | INTERCOM/CAMERA MASTER STATION |
| | DOOR RELEASE PUSH BUTTON STATION |
| | DOOR LOCKDOWN PUSH BUTTON STATION |

POWER DISTRIBUTION AND CONTROL

| SYMBOL | DESCRIPTION |
|--------|--|
| | PUSH-BUTTON STATION |
| | EMERGENCY PUSHBUTTON |
| | EMERGENCY PUSHBUTTON WITH KEY RESET |
| | GAS VALVE SHUTOFF |
| | FUSED DISCONNECT SWITCH |
| | MANUAL MOTOR STARTING SWITCH WITH THERMAL OVERLOAD DEVICE |
| | LOCAL DISCONNECT SWITCH- SINGLE OR 2 POLE AS REQUIRED |
| | CONTACTOR |
| | MOTOR STARTER (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED) |
| | COMBINATION STARTER & DISCONNECT SWITCH (FURNISHED BY M.C. UNLESS OTHERWISE INDICATED) |
| | MOTOR |
| | RACEWAY |
| | RECESSED PANELBOARD |
| | SURFACE PANELBOARD |
| | JUNCTION BOX |
| | CONDUCTOR |
| | TRANSFORMER AS SCHEDULED |
| | METER |
| | CABLE TRAY |

TELECOMMUNICATIONS OUTLETS

| SYMBOL | DESCRIPTION |
|--------|---|
| | REFER TO DETAIL DRAWINGS FOR OUTLET TYPES |
| | REFER TO DETAIL DRAWINGS FOR OUTLET TYPES |
| | REFER TO DETAIL DRAWINGS FOR OUTLET TYPES |
| | REFER TO DETAIL DRAWINGS FOR OUTLET TYPES |

LIGHTING

| SYMBOL | DESCRIPTION |
|--------|--|
| | LUMINAIRE - CEILING MOUNTED |
| | LUMINAIRE - CEILING MOUNTED - NORMAL & EMERGENCY CIRCUITS |
| | LUMINAIRE - CEILING MOUNTED - EMERGENCY ONLY |
| | WALL MOUNTED LUMINAIRE |
| | WALL MOUNTED LUMINAIRE - NORMAL & EMERGENCY CIRCUITS |
| | FLOOD OR SPOT LUMINAIRE |
| | WALL MOUNTED LUMINAIRE - EMERGENCY ONLY |
| | WALL MOUNTED FLOOD OR SPOT LUMINAIRE - EMERGENCY ONLY |
| | REMOTE HEADS - HEADS AS SCHEDULED OR INDICATED |
| | EMERGENCY BATTERY UNIT - HEADS AS SCHEDULED OR INDICATED |
| | CEILING MOUNTED EXIT SIGN - FACES INDICATED BY SHADING |
| | CEILING MOUNTED EXIT SIGN - HEADS AS SCHEDULED OR INDICATED |
| | WALL MOUNTED EXIT SIGN - FACES INDICATED BY SHADING |
| | WALL MOUNTED BATTERY EXIT SIGN - HEADS AS SCHEDULED OR INDICATED |
| | LUMINAIRE |
| | LUMINAIRE - NORMAL & EMERGENCY CIRCUITS |

LINE VOLTAGE SWITCHING

| SYMBOL | DESCRIPTION |
|--------|---|
| | SINGLE POLE SWITCH |
| | DOUBLE POLE SWITCH |
| | THREE - WAY SWITCH |
| | FOUR - WAY SWITCH |
| | KEY OPERATED SINGLE POLE SWITCH |
| | KEY OPERATED THREE - WAY SWITCH |
| | KEY OPERATED FOUR - WAY SWITCH |
| | EXPLOSION PROOF SINGLE POLE SWITCH |
| | SINGLE POLE DIMMER SWITCH |
| | THREE - WAY DIMMER SWITCH |
| | INDICATOR SWITCH (ILLUMINATED WHEN ON) |
| | INDICATOR SWITCH (ILLUMINATED WHEN OFF) |
| | SINGLE BUTTON OCCUPANCY SENSOR SWITCH |
| | RAISE AND LOWER SWITCH PROVIDED WITH EQUIPMENT UNLESS OTHERWISE NOTED |
| | TWO BUTTON OCCUPANCY SENSOR SWITCH |
| | DIGITAL TIME SWITCH |
| | 0-10V DIMMING SWITCH WITH INTEGRAL OCCUPANCY SENSOR |

LOW VOLTAGE LIGHTING CONTROLS

| SYMBOL | DESCRIPTION |
|--------|---|
| | SINGLE BUTTON DIMMER LOW VOLTAGE WALLSTATION |
| | SINGLE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | TWO BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | THREE BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | FOUR BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | FIVE BUTTON / RAISE LOWER LOW VOLTAGE DIGITAL WALL SWITCH |
| | FIVE BUTTON / RAISE LOWER WIRELESS DIGITAL WALL SWITCH |
| | EIGHT BUTTON LOW VOLTAGE DIGITAL WALL SWITCH |
| | SINGLE BUTTON HANDHELD REMOTE WITH IR CEILING MOUNT RECEIVER |
| | TWO BUTTON HANDHELD REMOTE WITH IR CEILING MOUNT RECEIVER |
| | FIVE BUTTON HANDHELD REMOTE WITH IR CEILING MOUNT RECEIVER |
| | LOW VOLTAGE CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR |
| | WIRELESS CORNER CEILING OR WALL MOUNTED OCCUPANCY SENSOR |
| | LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR |
| | WIRELESS CEILING MOUNTED OCCUPANCY SENSOR |
| | LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS |
| | WIRELESS CEILING MOUNTED OCCUPANCY SENSOR - EXTENDED HEIGHT LENS |
| | LOW VOLTAGE CEILING MOUNTED DIGITAL DAYLIGHT SENSOR |
| | WIRELESS CEILING MOUNTED DIGITAL DAYLIGHT SENSOR |
| | DIGITAL LIGHTING CONTROL SYSTEM - 1 RELAY ROOM CONTROLLER AND WIRELESS NETWORK BRIDGE |
| | DIGITAL LIGHTING CONTROL SYSTEM - 2 RELAY ROOM CONTROLLER AND WIRELESS NETWORK BRIDGE |
| | DIGITAL LIGHTING CONTROL SYSTEM - 3 RELAY ROOM CONTROLLER AND WIRELESS NETWORK BRIDGE |
| | DIGITAL PLUG LOAD ROOM CONTROLLER |
| | DIGITAL PARTITION CONTROL WITH SINGLE POLE SWITCH FOR CONTROL |
| | EMERGENCY LIGHTING CONTROL DEVICES |
| | BORDER ROUTER WITH POWER BOOSTER |
| | EXTERIOR DAYLIGHT SENSORS WITH INPUT MODULE |
| | LIGHTING CONTROL SYSTEM ENCLOSURE WITH DATA CONNECTION |
| | ONE BUTTON MOMENTARY SWITCH |
| | ONE BUTTON MOMENTARY DIMMER SWITCH |
| | VACANCY POWER PACK |

FIRE ALARM

| SYMBOL | DESCRIPTION |
|--------|--|
| | PHOTOELECTRIC SMOKE DETECTOR - CEILING MOUNTED |
| | HEAT DETECTOR |
| | HIGH HEAT DETECTOR - CEILING MOUNTED |
| | DUCT SMOKE DETECTOR - WITH REMOTE TEST SWITCH |
| | IONIZATION SMOKE DETECTOR - CEILING MOUNTED |
| | CARBON DIOXIDE DETECTOR |
| | BEAM DETECTOR |
| | CARBON MONOXIDE DETECTOR |
| | SMOKE/CARBON MONOXIDE DETECTOR |
| | CEILING MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| | CEILING MOUNTED FIRE ALARM VISUAL DEVICE |
| | CEILING MOUNTED FIRE ALARM AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| | WALL MOUNTED FIRE ALARM AUDIO DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| | WALL MOUNTED FIRE ALARM VISUAL DEVICE |
| | WALL MOUNTED FIRE AUDIO/VISUAL DEVICE (SHADED TRIANGLE INDICATES LOW FREQUENCY 520Hz) |
| | WALL MOUNTED MANUAL PULL STATION |
| | RELAY AND/OR MONITORING DEVICE AS REQUIRED BY THE APPLICATION REQUIREMENTS |
| | KNOX BOX |
| | MAGNETIC DOOR HOLDER |
| | SPRINKLER PRESSURE SWITCH |
| | SPRINKLER FLOW SWITCH |
| | SPRINKLER TAMPER SWITCH |
| | SMOKE DAMPER |
| | WIRE GUARD |
| | PROTECTIVE COVER |
| | WEATHERPROOF |
| | AREA OF RESCUE ASSISTANCE PANEL |
| | AREA OF RESCUE ASSISTANCE REMOTE STATION |
| | FIRE ALARM CONTROL PANEL |
| | FIRE ALARM SIGNAL EXTENDER PANEL |
| | FIRE ALARM LCD ANNUNCIATOR |
| | FIRE ALARM GRAPHIC / LCD ANNUNCIATOR |
| | FIRE ALARM COMMAND PANEL |
| | FIRE ALARM RECORD DOCUMENT BOX |

GENERAL ELECTRICAL NOTES:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE NEC AND ALL LOCAL, STATE AND NATIONAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE ARCHITECTURAL PHASING PLANS INCLUDING ASBESTOS ABATEMENT PLANS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO: ALL TEMPORARY AND PERMANENT CROSSOVER CONNECTIONS, RELOCATION OF SYSTEM EQUIPMENT AND REPROGRAMMING OF THE SYSTEM EQUIPMENT TO THE NEW AND EXISTING SYSTEMS THAT THE ELECTRICAL CONTRACTOR WILL NEED TO PROVIDE DURING THE RENOVATION/CONSTRUCTION PROJECT. THESE SYSTEMS INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - A. NORMAL POWER/LIGHTING CIRCUITS.
 - B. EMERGENCY POWER/LIGHTING CIRCUITS.
 - C. FIRE ALARM SYSTEMS
 - D. SECURITY SYSTEMS
 - E. CAMERA SYSTEMS
 - F. INTERCOM SYSTEMS
 - G. MASTER CLOCK SYSTEMS
 - H. SOUND SYSTEMS
 - I. TELEPHONE SYSTEMS
 - J. DATA SYSTEMS
- SHUTDOWNS OF ANY OF THE SYSTEMS LISTED ABOVE MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, OWNER AND CONSTRUCTION MANAGER.
- THERE WILL BE MULTIPLE LABOR AND INDUSTRY, TOWNSHIP, OWNER, ARCHITECT AND ENGINEER INSPECTIONS THAT WILL NEED TO BE SATISFIED BY THE ELECTRICAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT, WHETHER SPECIFIED OR NOT, TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND CABLE TRAY PENETRATIONS THROUGH CHASES, WALLS OR FLOORS WHICH ARE FIRE-RATED. THE ELECTRICAL CONTRACTOR SHALL UNDER THE DIRECTION OF THE ARCHITECT, PROPERLY SEAL ALL PENETRATIONS TO MAINTAIN FIRE PROTECTION RATING. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE RATED PARTITIONS.
- NOT ALL SYMBOLS SHOWN ON THIS DRAWING ARE USED ON THIS PROJECT.
- NE OR MORE ATTRIBUTES MAY BE ADDED TO A BASIC SYMBOL TO SPECIFY ADDITIONAL REQUIREMENTS FOR THE DEVICE DESCRIBED BY THE BASIC SYMBOL.
- REFER TO SPECIFICATIONS FOR PANELBOARD AND LUMINAIRE SCHEDULES.

KEY PLAN

REVISIONS



HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St. | Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

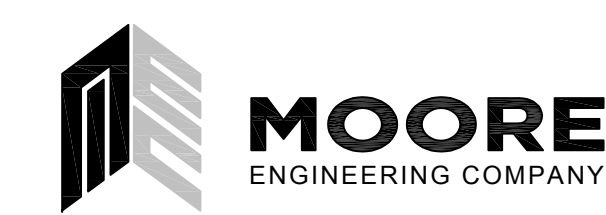
LANCASTER CITY HOUSING AUTHORITY

PROJECT DESCRIPTION
FARNUM ST EAST SWITCHBOARD AND SERVICE UPGRADE
33 FARNUM ST
LANCASTER, PA 17602

| SHEET TITLE | SYMBOLS |
|-------------|------------|
| ISSUE DATE | 08.27.24 |
| SCALE | AS NOTED |
| FILE NUMBER | 2433_24034 |
| DRAWN BY | TET |
| CHECKED BY | TET |

E0.1

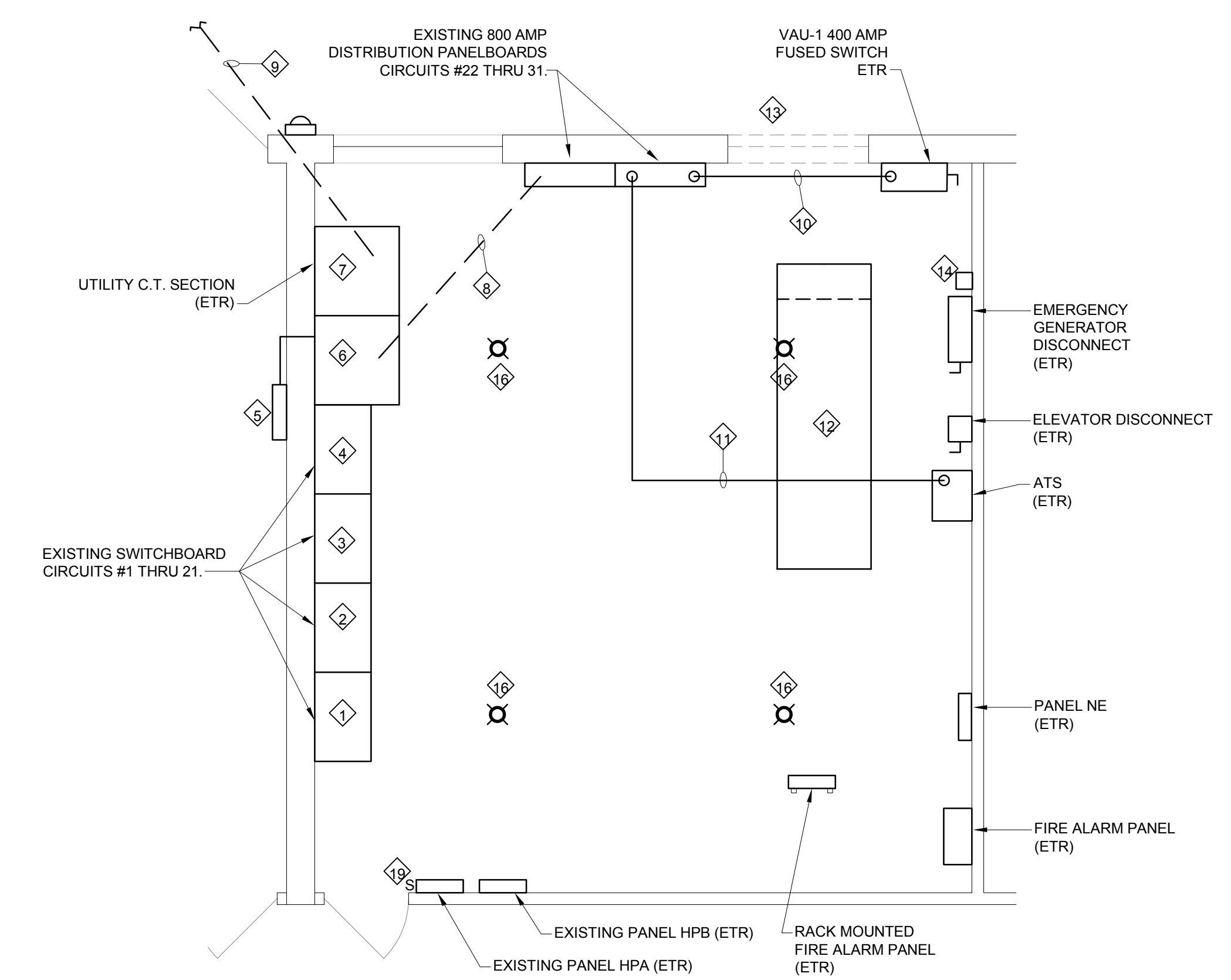
All dimensions, measurements and project conditions shall be checked and verified in the field by the contractor. Refer all differences, in writing, to the architect for consideration prior to proceeding with the work. The contractor shall bear the cost of rectifying work not approved by the architect, caused by lack of coordination and or notification.



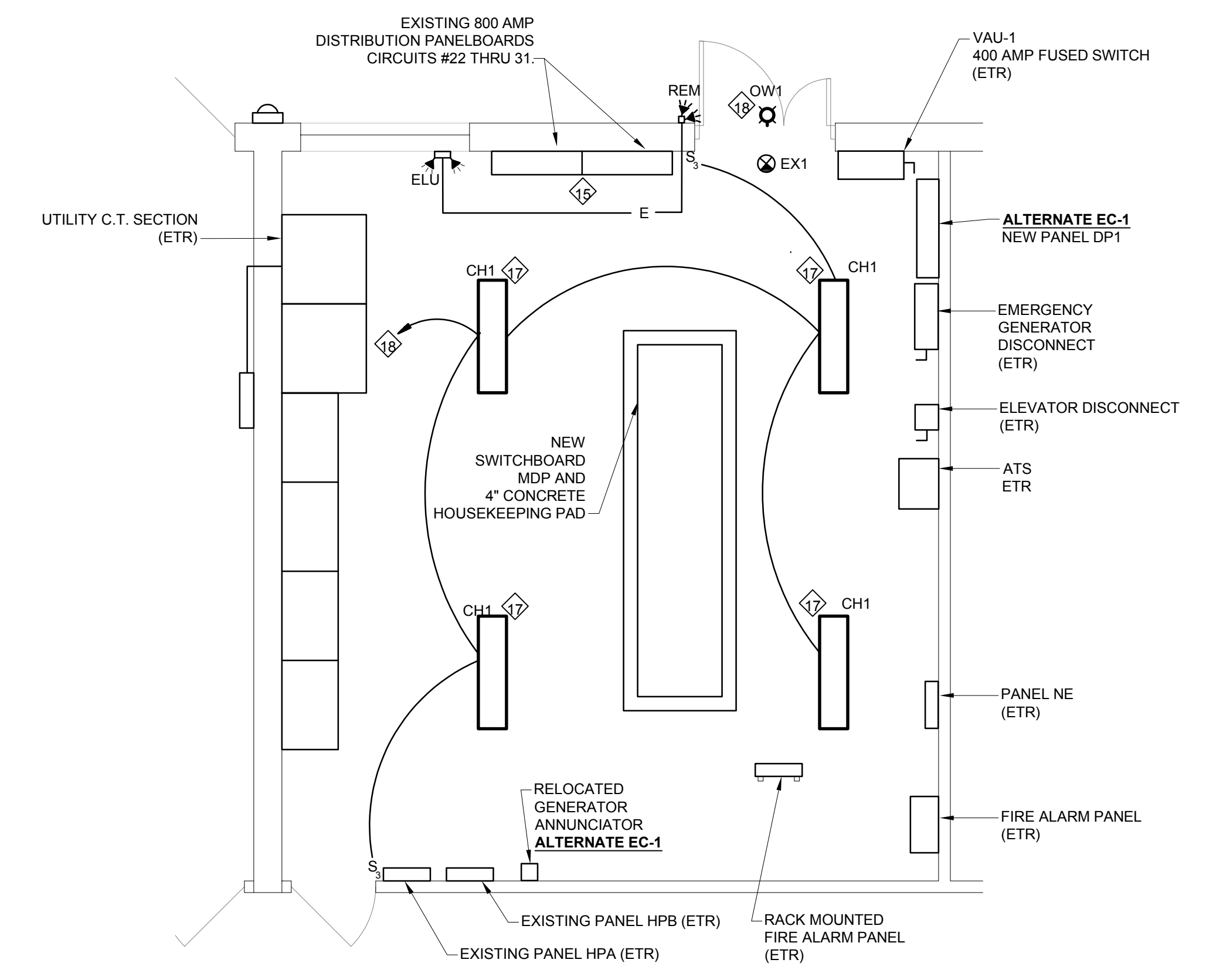
3637 Columbia Avenue, Lancaster PA 17603
P: 717.285.3141, MooreEngineering.com

- GENERAL NOTES:**
- REFER TO RISER DIAGRAM ON SHEET E2.0 FOR ADDITIONAL INFORMATION.
 - ALL LABOR HOURS, INCLUDING HOURS OUTSIDE OF NORMAL WORK TIMES SHALL BE INCLUDED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN.
 - ALL POWER OUTAGES MUST BE COORDINATED WITH THE OWNER'S SCHEDULE WITH TWO WEEKS MINIMUM NOTICE. THIS BUILDING IS OCCUPIED 24/7 AND ANY OUTAGES NEED TO BE PLANNED AS NEEDED TO MINIMALLY AFFECT RESIDENTS AS MUCH AS POSSIBLE.
 - PROVIDE BLANK COVERS TO CLOSE ANY OPENINGS ON EXISTING EQUIPMENT THAT REMAIN.
 - WIRE EXIT SIGN AND EMERGENCY LIGHTING UNIT TO EXISTING LIGHTING CIRCUIT AHEAD OF LOCAL SWITCHING.
 - REFER TO LUMINAIRE SCHEDULE IN SPECIFICATIONS FOR LIGHTING FIXTURE INFORMATION.

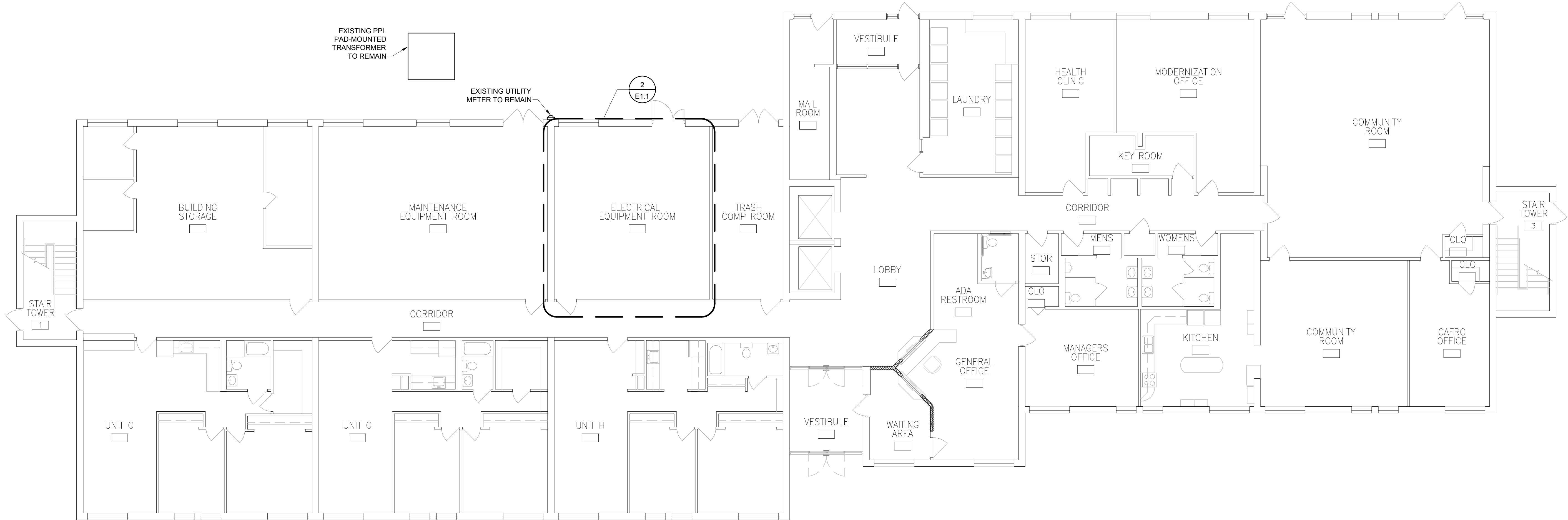
- DRAWING NOTES:**
- ONE EXISTING 2" CONDUIT ENTERS THE TOP OF THE SECTION. SIX EXISTING 2" CONDUITS ENTER INTO THE LEFT SIDE OF THE SECTION.
 - ONE EXISTING 2" CONDUIT ENTERS THE TOP OF THE SECTION.
 - TEN EXISTING 2" CONDUITS ENTER THE TOP OF THE SECTION.
 - THREE EXISTING 2" CONDUITS ENTER THE TOP OF THE SECTION.
 - EXISTING FIRE PUMP AND JOCKEY PUMP TAP JUNCTION BOX WITH LUG TERMINALS. EXISTING FEEDER COMES FROM THE SWITCHBOARD SECTION WITH MAIN FUSED SWITCHES. THIS FEEDER IS TO BE REMOVED AND REPLACED WITH NEW CONDUIT/WIRING AND CONNECTED TO THE BUSSING ON THE LOAD SIDE OF THE CT METERING SECTIONS. MATCH EXISTING CONDUIT/WIRING. PROVIDE TEMPORARY GENERATOR AND WIRING TO POWER THE 60HP FIRE PUMP AND 1HP JOCKEY PUMP DURING ALL POWER OUTAGES/SHUT-DOWNS.
 - EXISTING SWITCHBOARD SECTION WITH 2000 AMP AND 800 AMP MAIN FUSED SWITCHES TO BE REMOVED. PROVIDE NEW BLANK STEEL SIDE PANEL FOR SIDE OF EXISTING UTILITY CT SECTION WITH HARDWARE FOR UTILITY COMPANY SEALS AND A BLANK STEEL COVER FOR EXISTING SWITCHBOARD ENCLOSURE THAT REMAINS.
 - REMOVE EXISTING LIGHTING AND ASSOCIATED RACEWAY GOING THROUGH WALL AND ON CEILING ABOVE AND IN FRONT OF SWITCHBOARD. REWORK/EXTEND RACEWAY/WIRING TO NEW LOCATION AND RECONNECT TO NEW LIGHTING AND WIRING.
 - EXISTING UNDERGROUND FEEDER FROM 800 AMP MAIN FUSED SWITCH TO 800 AMP PANELBOARDS. EXACT UNDERGROUND LOCATION IS UNKNOWN.
 - EXISTING UNDERGROUND SERVICE ENTRANCE CONDUITS AND CONDUCTORS TO UTILITY TRANSFORMER TO REMAIN.
 - REMOVE THIS FEEDER AND PROVIDE NEW 400 AMP FEEDER FROM NEW SWITCHBOARD TO EXISTING VAU-1 400 AMP FUSED SWITCH. NEW FEEDER TO MATCH EXISTING CONDUIT AND WIRING SIZES/QUANTITIES.
 - REMOVE EXISTING ATS NORMAL POWER FEEDER AND PROVIDE A NEW POWER FEEDER INSTALLED FROM ATS TO NEW SWITCHBOARD. NEW FEEDER TO MATCH EXISTING CONDUIT AND WIRING SIZES/QUANTITIES.
 - REMOVE EXISTING CONCRETE PAD AND PATCH FLOOR AS REQUIRED TO MATCH EXISTING SURROUNDING AREAS.
 - NEW EXTERIOR DOORS TO BE INSTALLED IN PLACE OF EXISTING WINDOW AND WALL AREA. REMOVE/REWORK ANY RACEWAYS/WIRING AS NEEDED FOR THE NEW DOOR INSTALLATION.
 - UNDER ALTERNATE EC-1:** RELOCATE EXISTING GENERATOR ANNUNCIATOR PANEL TO NEW LOCATION TO ACCOMMODATE NEW PANEL DP1 INSTALLATION.
 - UNDER ALTERNATE EC-1:** ALL REMAINING CIRCUITS AND FEEDERS ARE TO BE EXTENDED TO NEW PANEL DP1.
 - REMOVE EXISTING LUMINAIRE AND TURN OVER TO OWNER. REMOVE/RELOCATE ASSOCIATED RACEWAYS/WIRING TO NEW FIXTURES SHOWN IN NEW WORK PLAN.
 - PROVIDE 4" LED STRIP LIGHT WITH LENS AND PENDANT MOUNT. COORDINATE INSTALLATION WITH NEW WORK AND EXISTING CONDITIONS.
 - REWORK/EXTEND WIRE/CONDUIT TO CONNECT NEW LIGHTS TO EXISTING CIRCUIT.
 - REMOVE SINGLE POLE TOGGLE SWITCH AND REPLACE WITH 3-WAY SWITCH AND WIRING AS REQUIRED.



2 ENLARGED ELECTRICAL EQUIPMENT ROOM - DEMOLITION PLAN
E1.1 1/4"=1'-0"



3 ENLARGED ELECTRICAL EQUIPMENT ROOM - NEW WORK PLAN
E1.1 1/4"=1'-0"



1 FIRST FLOOR PLAN
E1.1 1/8" = 1'-0"

REVISIONS

KEY PLAN



HAMMEL ASSOCIATES ARCHITECTS, LLC
25 E. Grant St. | Suite 102 | Lancaster, PA 17602 | 717.393.3713 | www.hammelarch.com

LANCASTER CITY HOUSING AUTHORITY

PROJECT DESCRIPTION
FARNUM ST EAST SWITCHBOARD AND SERVICE UPGRADE
33 FARNUM ST
LANCASTER, PA 17602

SHEET TITLE FIRST FLOOR PLAN
ISSUE DATE 08.27.24 SCALE AS NOTED
FILE NUMBER 2433_24034 DRAWN BY TET CHECKED BY TET

E1.0

All dimensions, measurements and project conditions shall be checked and verified in the field by the contractor. Refer all differences, in writing, to the architect for consideration prior to proceeding with the work. The contractor shall bear the cost of rectifying work not approved by the architect, caused by lack of coordination and or notification.



REVISIONS

KEY PLAN



LANCASTER CITY HOUSING AUTHORITY

PROJECT DESCRIPTION
FARNUM ST EAST SWITCHBOARD AND SERVICE UPGRADE
33 FARNUM ST
LANCASTER, PA 17602

SHEET TITLE RISER DIAGRAM
ISSUE DATE 08.27.24 SCALE AS NOTED
FILE NUMBER 2433_24034 DRAWN BY TET CHECKED BY TET

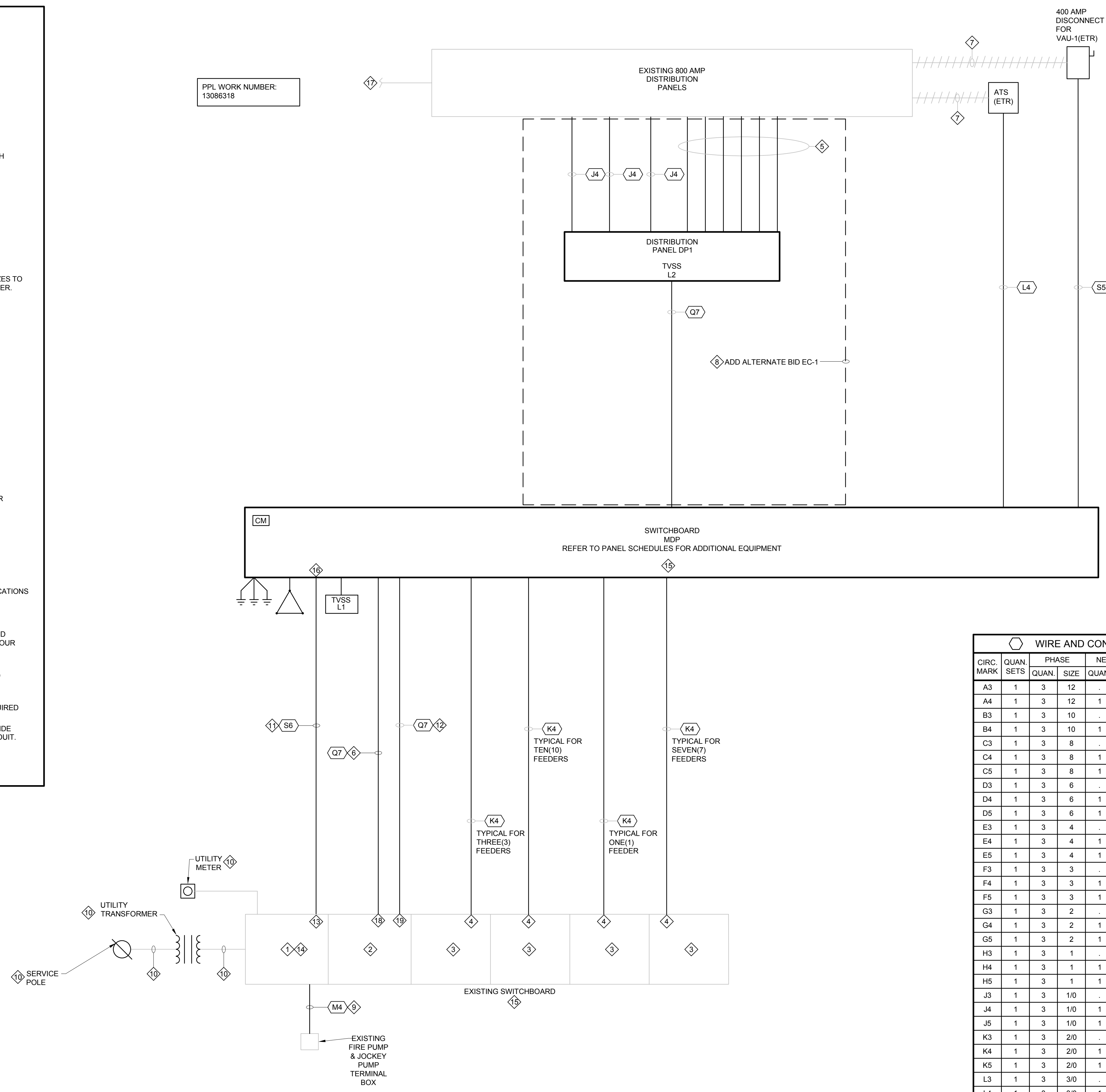
E2.0

- GENERAL NOTES:**
- REFER TO SPECIFICATIONS FOR PANELBOARD SCHEDULES.
 - ALL LABOR HOURS, INCLUDING HOURS OUTSIDE OF NORMAL WORK TIMES SHALL BE INCLUDED IN THE BID. NO ADDITIONAL COMPENSATION WILL BE GIVEN.
 - ALL POWER OUTAGES MUST BE COORDINATED WITH THE OWNER'S SCHEDULE WITH TWO WEEKS MINIMUM NOTICE. THIS BUILDING IS OCCUPIED 24/7 AND ANY OUTAGES NEED TO BE PLANNED AS NEEDED TO MINIMALLY AFFECT RESIDENTS AS MUCH AS POSSIBLE.
 - PROVIDE BLANK COVERS TO CLOSE ANY OPENINGS ON EXISTING EQUIPMENT THAT REMAIN.
 - MAINTAIN EXISTING 3-PHASE ROTATION AND PHASES BETWEEN EXISTING AND NEW WORK.
 - PROVIDE NEW TYPED LEGENDS WITH ALL EXISTING LOADS CLEARLY IDENTIFIED. ALL EXISTING FEEDERS AND CIRCUITS TO BE RESEARCHED AND IDENTIFIED.

- NOTES:**
- EXISTING SWITCHBOARD SECTION WITH PPL METERING C.T.'S TO REMAIN.
 - EXISTING SWITCHBOARD SECTION WITH 2000 AMP MAIN FUSED SWITCH AND 1200A MAIN SWITCH WITH 800A FUSES. DISCONNECT AND REMOVE SWITCHES. PROVIDE NEW METAL DIVIDER TO SEPARATE SECTION FROM C.T. SECTION.
 - EXISTING SWITCHBOARD SECTION WITH FUSED SWITCHES FOR PANEL FEEDERS. DISCONNECT AND REMOVE FUSED SWITCHES AND BUSSING AFTER PANEL FEEDERS HAVE BEEN TRANSFERRED TO THE NEW SWITCHBOARD MDP. EXISTING SECTION ENCLOSURE TO REMAIN IN PLACE AS A JUNCTION BOX.
 - DISCONNECT EXISTING PANEL FEEDERS FROM FUSED SWITCHES AND CONNECT TO NEW SWITCHBOARD PANEL FEEDERS.
 - REFER TO SPECIFICATIONS AND PANELBOARD SCHEDULES FOR WIRE/CONDUIT SIZES.
 - TEMPORARY BACKFEED TO EXISTING SWITCHBOARD. DISCONNECT AND REMOVE FEEDER AFTER EXISTING PANEL FEEDERS HAVE BEEN TRANSFERRED TO NEW SWITCHBOARD.
 - REMOVE EXISTING FEEDER CONDUIT/CABLES FROM EXISTING 800 AMP DISTRIBUTION PANELS WHEN NEW FEEDERS HAVE BEEN INSTALLED TO NEW SWITCHBOARD AND THE EXISTING FEEDERS ARE NO LONGER NEEDED. THIS WORK IS PART OF THE BASE BID.
 - ALTERNATE EC-1:** PROVIDE NEW DISTRIBUTION PANEL DP1 AND REWORK/EXTEND EXISTING FEEDERS AND BRANCH CIRCUITS FROM THE EXISTING 800 AMP PANELS TO NEW DISTRIBUTION PANEL DP1. DEMOLISH EXISTING 800A PANELS WHEN NO LONGER NEEDED.
 - THIS FEEDER IS TO BE REMOVED AND REPLACED WITH NEW CONDUIT/WIRING AND CONNECTED TO THE BUSSING ON THE LOAD SIDE OF THE CT METERING SECTION. MATCH EXISTING CONDUIT/WIRING. PROVIDE TEMPORARY GENERATOR AND WIRING TO POWER THE FIRE PUMP AND JOCKEY PUMP DURING ALL POWER OUTAGES/SHUT-DOWNS.
 - UTILITY SERVICE POLE, PAD-MOUNTED TRANSFORMER, METER, PRIMARY AND SECONDARY DUCTBANKS TO REMAIN.
 - ALTERNATE EC-2:** IN LIEU OF COPPER SERVICE ENTRANCE CONDUCTORS, PROVIDE 8 SETS OF (4)750KCMIL AL + (1)750KCMIL BONDING CONDUCTOR IN 4" CONDUIT.
 - ALTERNATE EC-1:** THIS FEEDER TO BE REMOVED.
 - PROVIDE LARGE PULL BOX ABOVE CT SWITCHBOARD SECTION FOR NEW RACEWAYS AND SERVICE ENTRANCE CONDUCTORS TO BE INSTALLED TO NEW SWITCHBOARD. PROVIDE BONDING CONDUCTORS AND MATERIALS FOR ALL SERVICE ENTRANCE RACEWAYS, ENCLOSURES AND BOXES.
 - REMOVE BUS BAR CONNECTIONS FROM LOAD SIDE OF CT'S TO THE SWITCHBOARD SECTION WITH TWO MAIN SWITCHES. PROVIDE TERMINATING LUG SETS AS NEEDED TO TERMINATE THE NEW CONDUCTORS TO THE LOAD SIDE OF THE CT BUS BARS. PROVIDE ALL HARDWARE AND MATERIALS AS REQUIRED.
 - PROVIDE PULL BOXES ABOVE SWITCHBOARD AS REQUIRED TO INSTALL NEW AND TEMPORARY FEEDER RACEWAYS/CONDUCTORS.
 - PROVIDE PULL BOX ABOVE SWITCHBOARD FOR NEW SERVICE ENTRANCE RACEWAYS AND CONDUCTORS TO NEW SWITCHBOARD. PROVIDE BONDING CONDUCTORS AND MATERIALS FOR ALL SERVICE ENTRANCE RACEWAYS, ENCLOSURES AND BOXES.
 - ALTERNATE EC-1:** REMOVE UNDERGROUND CONDUCTORS FROM EXISTING 800 AMP FUSED SWITCH SWITCHBOARD SECTION WHEN NO LONGER NEEDED.
 - REMOVE EXISTING 2000A FUSED SWITCH AND CONNECT TEMPORARY FEEDER TO EXISTING LOAD SIDE BUSS TO SWITCHBOARD DISTRIBUTION SECTIONS. REMOVE WHEN NO LONGER NEEDED.
 - REMOVE EXISTING 1200 AMP SWITCH WITH 800 AMP FUSES AND CONNECT FEEDER TO LOAD SIDE CONDUCTORS GOING TO EXISTING 800 AMP DISTRIBUTION PANELS. REMOVE WHEN NO LONGER NEEDED.

SYMBOL SCHEDULE

| | |
|--|---|
| | SWITCHBOARD |
| | UTILITY POLE |
| | UTILITY METER. COORDINATE EXACT LOCATION WITH UTILITY COMPANY REQUIREMENTS |
| | TRANSFORMER |
| | MOTOR |
| | TRANSIENT VOLTAGE SURGE SUPPRESSOR VERIFY AND ADJUST BREAKER, WIRE & CONDUIT SIZES TO MATCH RECOMMENDATIONS BY TVSS MANUFACTURER. |
| | FUSED DISCONNECT SWITCH |
| | ENCLOSED CIRCUIT BREAKER |
| | GENERATOR |
| | AUTOMATIC TRANSFER SWITCH |
| | PROVIDE A SEPARATE #3/0 GROUNDING CONDUCTOR TO EACH OF THE FOLLOWING: - COUNTERPOISE - FOUNDATION FOOTER REBAR - UTILITY SIDE OF WATER METER SERVICE - BUILDING STEEL |
| | GROUND CONNECTION PER NEC |
| | GROUNDING COUNTERPOISE SYSTEM PER SPECIFICATIONS |
| | CIRCUIT CONDUCTOR REFERENCE 2-HOUR FIRE RATED CONDUCTORS WITH INCREASED CONDUIT SIZE AS REQUIRED TO MEET A LISTED 2-HOUR RATED INSTALLATION, NEC AND MANUFACTURERS REQUIREMENTS. |
| | EQUIPMENT/FEEDER/WIRING/ETC - TO BE REMOVED |
| | FEEDER CIRCUIT |
| | GROUND FAULT RELAY. PROVIDE TESTING AS REQUIRED BY THE AHJ. |
| | CUSTOMER METERING PER SPECIFICATIONS. PROVIDE CATEGORY 6 CABLE TO LOCAL MDF/IDF IN 3/4" CONDUIT. |
| | INTEGRAL CONTACTOR |
| | EXISTING TO REMAIN |



POWER RISER DIAGRAM
NO SCALE

WIRE AND CONDUIT SCHEDULE

| CIRC. MARK | QUAN. | SETS | PHASE | | NEUTRAL | | GND. SIZE | CONDUIT | |
|------------|-------|------|-------|------|---------|------|-----------|---------|--------|
| | | | QUAN. | SIZE | QUAN. | SIZE | | QUAN. | SIZE |
| A3 | 1 | 3 | 12 | | | | 12 | 1 | 3/4" |
| A4 | 1 | 3 | 12 | 1 | 12 | 12 | 12 | 1 | 3/4" |
| B3 | 1 | 3 | 10 | | | | 10 | 1 | 3/4" |
| B4 | 1 | 3 | 10 | 1 | 10 | 10 | 10 | 1 | 3/4" |
| C3 | 1 | 3 | 8 | | | | 8 | 1 | 1" |
| C4 | 1 | 3 | 8 | 1 | 8 | 10 | 10 | 1 | 3/4" |
| C5 | 1 | 3 | 8 | 1 | 4 | 10 | 10 | 1 | 1" |
| D3 | 1 | 3 | 6 | | | | 10 | 1 | 1" |
| D4 | 1 | 3 | 6 | 1 | 6 | 10 | 10 | 1 | 1" |
| D5 | 1 | 3 | 6 | 1 | 3 | 10 | 10 | 1 | 1" |
| E3 | 1 | 3 | 4 | | | | 8 | 1 | 1-1/4" |
| E4 | 1 | 3 | 4 | 1 | 4 | 8 | 1 | 1-1/4" | |
| E5 | 1 | 3 | 4 | 1 | 4 | 4 | 1 | 1-1/4" | |
| F3 | 1 | 3 | 3 | | | | 8 | 1 | 1-1/4" |
| F4 | 1 | 3 | 3 | 1 | 3 | 8 | 1 | 1-1/4" | |
| F5 | 1 | 3 | 3 | 1 | 3 | 6 | 1 | 1-1/4" | |
| G3 | 1 | 3 | 2 | | | | 6 | 1 | 1-1/2" |
| G4 | 1 | 3 | 2 | 1 | 2 | 4 | 1 | 1-1/2" | |
| G5 | 1 | 3 | 2 | 1 | 2/0 | 6 | 1 | 1-1/2" | |
| H3 | 1 | 3 | 1 | | | | 6 | 1 | 1-1/2" |
| H4 | 1 | 3 | 1 | 1 | 1 | 4 | 1 | 1-1/2" | |
| H5 | 1 | 3 | 1 | 1 | 3/0 | 6 | 1 | 2" | |
| J3 | 1 | 3 | 1/0 | | | | 6 | 1 | 2" |
| J4 | 1 | 3 | 1/0 | 1 | 1/0 | 6 | 1 | 2" | |
| J5 | 1 | 3 | 1/0 | 1 | 1/0 | 4 | 1 | 2" | |
| K3 | 1 | 3 | 2/0 | | | | 6 | 1 | 2" |
| K4 | 1 | 3 | 2/0 | 1 | 2/0 | 4 | 1 | 2" | |
| K5 | 1 | 3 | 2/0 | 1 | 2/0 | 3 | 1 | 2" | |
| L3 | 1 | 3 | 3/0 | | | | 6 | 1 | 2" |
| L4 | 1 | 3 | 3/0 | 1 | 3/0 | 6 | 1 | 2" | |
| L5 | 1 | 3 | 3/0 | 1 | 3/0 | 3 | 1 | 3" | |
| L6 | 2 | 3 | 3/0 | 1 | 3/0 | 3 | 2 | 2-1/2" | |
| M3 | 1 | 3 | 4/0 | | | | 4 | 1 | 2-1/2" |
| M4 | 1 | 3 | 4/0 | 1 | 4/0 | 4 | 1 | 2-1/2" | |
| M5 | 1 | 3 | 4/0 | 2 | 4/0 | 4 | 1 | 2-1/2" | |
| M6 | 2 | 3 | 4/0 | | | | 2 | 2 | 2-1/2" |
| N3 | 1 | 3 | 250 | | | | 4 | 1 | 2-1/2" |
| N4 | 1 | 3 | 250 | 1 | 250 | 4 | 1 | 2-1/2" | |
| N5 | 2 | 3 | 250 | | | | 2 | 2 | 2-1/2" |
| N6 | 1 | 3 | 250 | 1 | 250 | 3 | 1 | 2-1/2" | |
| P3 | 1 | 3 | 300 | | | | 4 | 1 | 2-1/2" |
| P4 | 1 | 3 | 300 | 1 | 300 | 3 | 1 | 3" | |
| P5 | 1 | 3 | 300 | 2 | 300 | 4 | 1 | 3" | |
| Q3 | 1 | 3 | 350 | | | | 4 | 1 | 3" |
| Q4 | 1 | 3 | 350 | 1 | 350 | 1 | 1 | 3" | |
| Q5 | 2 | 3 | 350 | | | | 1 | 2 | 3" |
| Q6 | 2 | 3 | 350 | 1 | 350 | 2/0 | 2 | 3" | |
| Q7 | 2 | 3 | 350 | 1 | 350 | 1 | 2 | 3" | |
| Q8 | 3 | 3 | 350 | 1 | 350 | 1/0 | 3 | 3" | |
| R3 | 1 | 3 | 400 | | | | 3 | 1 | 3" |
| R4 | 1 | 3 | 400 | 1 | 400 | 3 | 1 | 3" | |
| R5 | 1 | 3 | 400 | 2 | 400 | 3 | 1 | 3-1/2" | |
| R6 | 3 | 3 | 400 | | | | 2/0 | 3 | 3-1/2" |
| S3 | 1 | 3 | 500 | | | | 3 | 1 | 3" |
| S4 | 1 | 3 | 500 | 1 | 500 | 3 | 1 | 3-1/2" | |
| S5 | 1 | 3 | 500 | 1 | 500 | 1 | 1 | 4" | |
| S6 | 8 | 3 | 500 | 1 | 500 | 500 | 8 | 4" | |
| T4 | 1 | 3 | 600 | 1 | 600 | 3 | 1 | 4" | |
| T5 | 2 | 3 | 600 | 1 | 600 | 3/0 | 2 | 4" | |
| T6 | 3 | 3 | 600 | 1 | 600 | 3/0 | 3 | 4" | |
| T7 | 8 | 3 | 600 | 1 | 600 | 3/0 | 8 | 4" | |