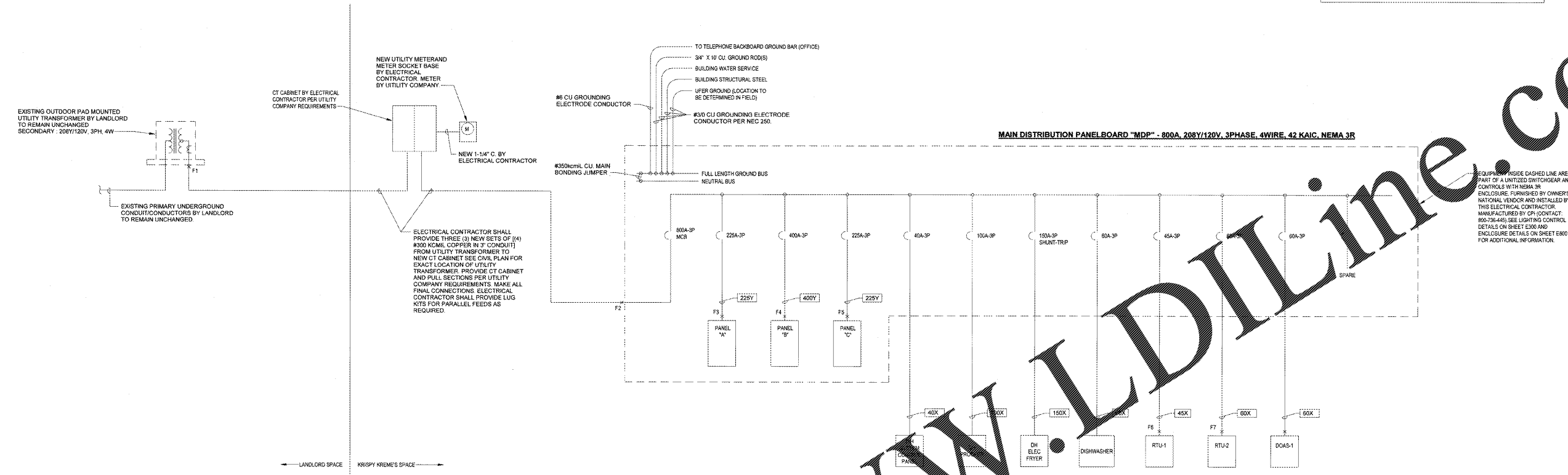


E.C. SHALL BECOME THOROUGHLY FAMILIARIZED WITH LOCAL UTILITY CONSTRUCTION GUIDELINES AND SHALL FULLY COMPLY WITH THEM. E.C. SHALL COORDINATE WITH LOCAL UTILITY AND SHALL BE ASSURED OF LOCAL UTILITY APPROVAL OF SERVICE DESIGN PRIOR TO PURCHASE OR INSTALLATION OF SERVICE EQUIPMENT. CONTACT THE ENGINEER IMMEDIATELY WITH ANY PROBLEMS OR CHANGES. ANY COSTS ARISING FROM FAILURE TO FULLY COORDINATE SERVICE INSTALLATION WITH LOCAL UTILITY SHALL BE BORNE BY THE E.C.



1 electrical single-line diagram SCALE | N.T.S.

FAULT CURRENT SCHEDULE

Table with columns: FAULT POINT (F#), ELECTRICAL EQUIPMENT, FAULT CURRENT (AMPS). Rows include F1 (UTILITY TRANSFORMER), F2 (SERVICE DISCONNECT), F3 (PANEL A), F4 (PANEL B), F5 (PANEL C), F6 (RTU-1), F7 (RTU-2).

E.C. SHALL PROVIDE A SERIES RATED DISTRIBUTION SYSTEM CAPABLE OF WITHSTANDING THE ACTUAL AVAILABLE FAULT CURRENT. THESE CALCULATIONS REPRESENT A WORST CASE ESTIMATE BASED ON AN INFINITE BUS (ISB). E.C. SHALL ONLY USE THESE CALCULATIONS AS A GUIDELINE FOR THE PROPER SELECTION AND COORDINATION OF BREAKERS. ACTUAL VALUES WILL VARY ACCORDING TO NUMEROUS VARIABLES. VALUES ARE VALID ONLY FOR A 300KVA TRANSFORMER WITH AN IMPEDANCE OF 1.0% OR GREATER AND SERVICE LATERALS NOT LESS THAN 120 FEET IN TOTAL LENGTH. E.C. SHALL FIELD VERIFY TRANSFORMER RATINGS AND LOCATION AND ALL CONDUIT VARIABLES PRIOR TO PURCHASING BREAKERS. ADJUST AS REQUIRED. CONSULT DESIGN ENGINEER AS NEEDED.

CONDUIT/CONDUIT SCHEDULE

Table with columns: SYMBOL, CONDUIT & CONDUCTOR SIZE. Lists various conduit and conductor specifications for different equipment and locations.

GENERAL NOTES

- 1. ALL INTERIOR METAL PIPING (WATER AND GAS) SHALL BE GROUNDED TO THE SERVICE ENTRANCE ENCLOSURE. THE GROUNDED CONDUCTOR AT THE SERVICE, THE GROUNDING ELECTRODE CONDUCTOR OF SUFFICIENT SIZE OR TO ONE OR MORE GROUNDING ELECTRODES, THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.66 (FOR WATER). THE GAS PIPING SHALL BE BONDED WITH A JUMPER SIZED PER TABLE 250.122 USING THE RATING OF THE CIRCUIT THAT MAY ENERGIZE THE PIPING PER NEC 250.104(B).
- 2. CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MINIMUM AVAILABLE FAULT CURRENT AT THE SITE AS DETERMINED BY THE LOCAL ELECTRIC UTILITY. SWITCHGEAR PROVIDER SHALL COORDINATE WITH LOCAL UTILITY TO DETERMINE MAXIMUM AVAILABLE FAULT CURRENT.
- 3. CT CABINETS SHALL BE RATED AT 1000 OR APPROVED EQUAL, UTE APPROVED.
- 4. ELECTRICAL CONTRACTOR REFER TO 'CONTRACTOR COORDINATION SCHEDULE' ON SHEET E-600 FOR RESPONSIBILITIES.
- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE A DIRECTORY, COMPLETELY TYPED TO IDENTIFY CIRCUITS, WITH TRANSPARENT PROTECTOR FOR EACH PANEL.
- 6. ALL WORK SHOWN ON THE DESIGN PLANS SHALL ONLY BE PERFORMED IF APPROVED BY THE OWNER'S REPRESENTATIVE, THE DESIGN ENGINEER, AND THE LOCAL INSPECTOR. ALL WORK SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES AND STANDARDS. HOWEVER, ANY DEVIATION FROM THE DESIGN PLANS IMPOSED BY LOCAL CODES THAT SUGGESTS INSTALLATION OF LESS THAN THE REQUIREMENTS SPECIFIED IN THE DESIGN PLANS SHALL NOT BE ALLOWED WITHOUT APPROVAL BY THE OWNER'S REPRESENTATIVE OR THE DESIGN ENGINEER. ANY UNAPPROVED DEVIATIONS FROM DESIGN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR. CONTRACTOR SHALL INSTALL SYSTEMS, EQUIPMENT AND COMPONENTS IN ACCORDANCE WITH MINIMUM REQUIREMENTS SHOWN IN THESE PLANS.
- 7. E.C. SHALL VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH NAMEPLATE DATA PRIOR TO INSTALLATION. MATCH RECEPTACLES, PLUGS AND CORD EXTENSIONS AS REQUIRED. PROVIDE DISCONNECT TO MATCH EQUIPMENT WHERE REQUIRED.
- 8. E.C. SHALL PROVIDE ALL ELECTRICAL PANELS WITH ARC-FLASH WARNING LABELS PER NEC.
- 9. E.C. TO PROVIDE AND INSTALL PLACARDS ON EACH PANEL INDICATING PANEL'S SOURCE, INCLUDING PANEL NAME AND FEEDER CIRCUIT NUMBER AND THE AVAILABLE FAULT CURRENT AND THE DATED CALCULATED. E.C. TO PROVIDE AND INSTALL PANEL MAP.
- 10. CIRCUIT BREAKERS FOR MULTI-CONDUCTOR CIRCUITS SHALL HAVE A COMMON TRIP FOR ALL CONDUCTORS.
- 11. PANEL PLACARDS ARE TO BE MADE FROM LAMINATED PLASTIC PROVIDING A BLACK BACKGROUND TO WHITE ENGRAVED LETTERING.

Kitchen Equipment Electrical Schedule table with columns: Identify Mark, Description - Instance, Voltage Nominal, Phase, FLA, Apparent Load, Conduit and Wire Size, Connection Type, Comments. Lists various kitchen equipment like paper towel dispensers, water meters, chillers, and refrigerators.

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