

GENERAL STREET LIGHT NOTES

CONCRETE BASES

THE OFFSET FOR CONCRETE BASES TO BE A MINIMUM OF SIX (6') FEET FROM EDGE OF PAVEMENT OR AS OTHERWISE NOTED ON THE PLANS. WHEN GUARDRAIL EXISTS, THE GUARD RAIL DEFLECTION WILL GOVERN MINIMUM OFFSET. MINIMUM CONCRETE BASE SIZES SHALL BE 2' X 6' FOR ARMS UP TO 8 FEET IN LENGTH AND 2 1/2' X 8' FOR ARMS LONGER THAN 8 FEET. WHEN CONCRETE BASES ARE INSTALLED IN SLOPING GROUND, THE GREATEST EXPOSED HEIGHT TO KEEP ALL OF THE TOP ABOVE GROUND MUST BE DOUBLED AND THEN ADDED TO THE MINIMUM DEPTH FOR THE TOTAL BASE HEIGHT. CARE SHOULD BE TAKEN WHERE CONCRETE BASES, DRAINAGE STRUCTURES, OR UTILITIES ARE CLOSE TOGETHER.

CONDUIT

A 2 1/2" (I.D.) MINIMUM CONDUIT SHALL BE USED FOR ROAD CROSSINGS AND BE CONTINUOUS BETWEEN PULLBOXES AND/OR POLE BASES, NO REDUCERS. 2" (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL OTHER LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS. ALL CONDUIT SHALL BE AT LEAST (SCHEDULE 40 P.V.C.) OR RIGID GALVANIZED STEEL ELECTRICAL CONDUIT. TYPE OF CONDUIT (P.V.C. OR STEEL) SHALL BE NOTED ON THE PLANS. THE FINAL CONDUIT DEPTH SHALL BE (A MINIMUM OF 2') AND BE 2' TO 3' BELOW GRADE FOR CONDUIT RUNS PARALLEL WITH CURB OR EDGE OF SHOULDER, AND 3' TO 5' DEPTH UNDER ROADWAYS OR AS DIRECTED BY THE ENGINEER. A 6" WIDE YELLOW MARKING TAPE (PLASTIC) SHALL BE INSTALLED 6" TO 12" BELOW FINISH GRADE OVER THE CONDUIT RUNS. A MAXIMUM OF 270° IN TOTAL BENDS WILL BE PERMITTED IN A SINGLE RUN OF CONDUIT. ALL P.V.C. CONDUIT ABOVE GROUND SHALL BE SCHEDULE 80.

CONDUIT SLEEVE

MINIMUM WALL THICKNESS FOR RIGID PLASTIC PIPE SLEEVES SHALL BE 1/35TH THE DIAMETER. ALL CONDUIT RUNS UNDER ROADWAY SHALL BE INSTALLED IN RIGID PLASTIC PIPE SLEEVES. THE SLEEVE SHALL EXTEND TO WITHIN 2 FEET OF THE SIDE OF A CONCRETE BASE OR PULLBOX. WHERE NO CONCRETE BASE OR PULLBOX IS PRESENT, THE SLEEVE SHALL EXTEND 2' BEYOND THE OUTSIDE EDGE OF SHOULDER OR FACE OF CURB. BACKFILLING AROUND A SLEEVE SHALL BE IN ACCORDANCE WITH SUBSECTION 601.08 OF SPECIFICATIONS. WHEN JACKING A SLEEVE UNDER A ROADWAY IT SHALL BE STEEL WITH A MINIMUM DIAMETER OF 8" AND MINIMUM WALL THICKNESS OF 3/8 INCH. ACTUAL LENGTH TO BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.

GROUNDING

IN ADDITION TO A GROUND ROD AT EACH CONCRETE POLE BASE A CONTINUOUS GROUNDING CIRCUIT (MINIMUM #6 A.W.G. COPPER CONDUCTOR) SHALL BE RUN BACK TO A CIRCUIT PROTECTIVE DEVICE AT THE POWER SOURCE OR TRANSFORMER. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE. ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR, AND RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUND CONDUCTOR.

POLES, ANCHOR BASES, AND ARMS

NO STREET LIGHT POLE SHAFT WALL THICKNESS SHALL BE LESS THAN 0.188" AND SHALL HAVE A MINIMUM 8" (O.D.) BOTTOM DIMENSION. ALL NEW STREET LIGHT POLES AND LUMINAIRE ARMS SHALL BE ALUMINUM, IN ACCORDANCE WITH SUBSECTION 753.01(B). ALL STREET LIGHT POLES SHALL HAVE A FRANGIBLE OR BREAKAWAY DEVICE BETWEEN THE POLE BASE AND CONCRETE BASE UNLESS PROPERLY PROTECTED BY GUARD RAIL OR BE BEYOND THE SAFETY ZONE, OF THRU NORTHBOUND OR SOUTHBOUND MAINLINE.

WIRE

ALL WIRING BETWEEN THE METER AND/OR POWER SOURCE AND THE FIRST POLE AND/OR PULLBOX AND BETWEEN POLES AND/OR PULLBOXES SHALL BE AS SPECIFIED ON THE PLANS (ALUMINUM OR COPPER) AND SIZED AS SPECIFIED ON THE PLANS. ALL WIRE TO HAVE TYPE XHHW INSULATION OR EQUIVALENT. USE #10 A.W.G. STRANDED COPPER WIRES IN EACH POLE BETWEEN THE POLE BASE AND THE LUMINAIRE. USE #6 A.W.G. COPPER (MIN.) FOR THE CONTINUOUS AND OTHER GROUND CIRCUITS. ALL WIRE CONNECTIONS IN THE LIGHT POLE BASES SHALL BE MADE WITH THE PROPER IN LINE OR WYE TYPE WATERPROOF DISCONNECT KIT. THE LOAD SIDE TO THE LUMINAIRE SHALL BE FUSED AT 3 TIMES THE LOAD. VOLTAGE LOSSES GREATER THAN 3% IN THE SECONDARY CIRCUIT REQUIRE LARGER WIRE.

PULLBOXES AND JUNCTION BOXES

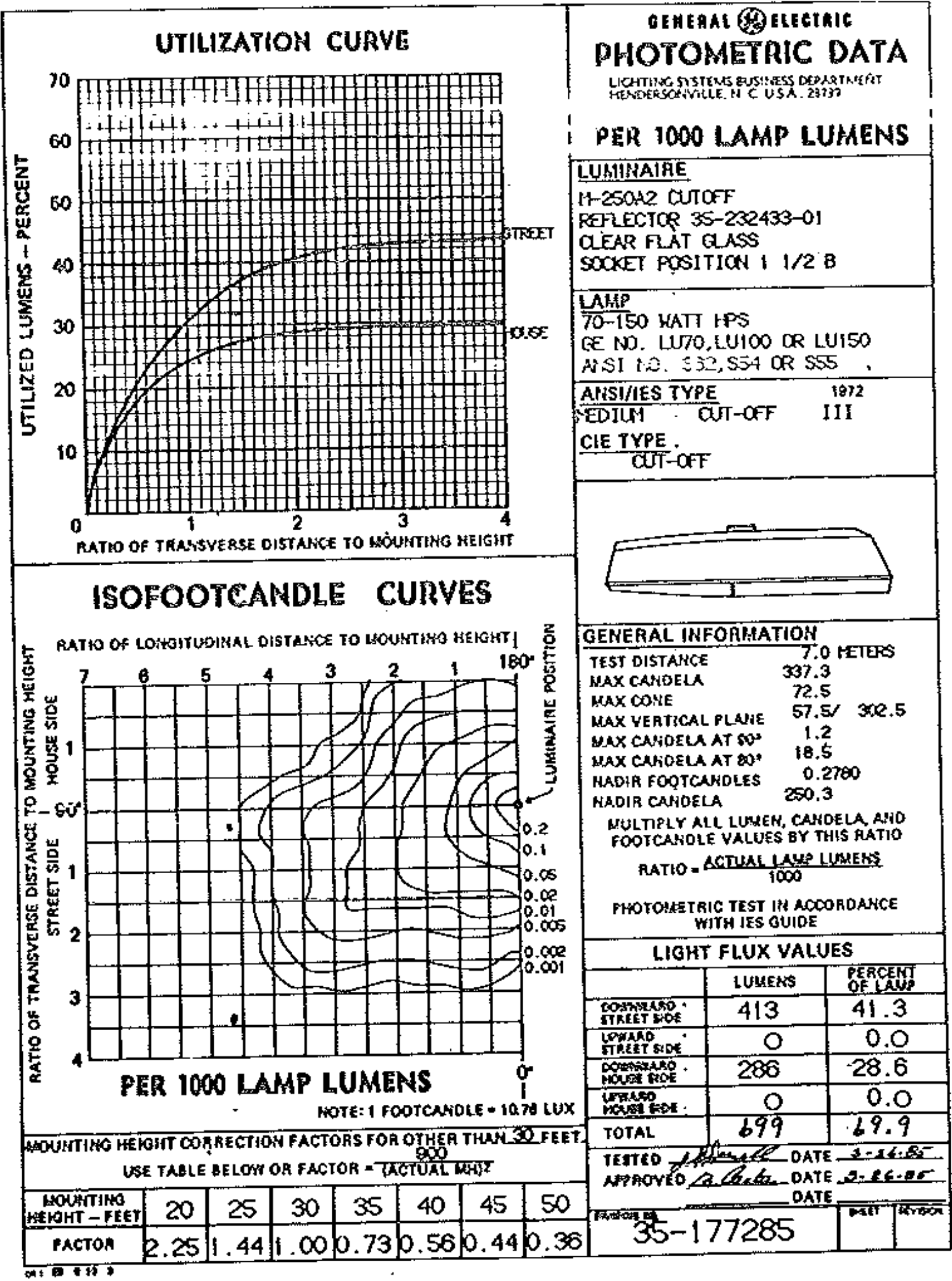
FOR DETAILS SEE STANDARD SHEET E-173.

LUMINAIRES

LUMINAIRES SHALL BE DESIGNED FOR STREET LIGHTING AND THE INDICATED LIGHT DISTRIBUTION. THEY SHALL INCLUDE AN ALUMINUM HOUSING WITH EASY ACCESS TO THE BALLAST ASSEMBLY, PHOTO-ELECTRIC CONTROL, FILTERED OPTICAL ASSEMBLY, MEDIUM CUT-OFF DISTRIBUTION AND REGULATOR BALLAST (CWA) FOR 120 VOLT HIGH PRESSURE SODIUM LAMPS. LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWINGS *35-177285, MEDIUM CUT-OFF, TYPE III DISTRIBUTION, DATED 03-26-85 AND DRAWING *35-177304, MEDIUM CUT-OFF, TYPE III DISTRIBUTION, DATED 04-24-85. THE ABOVE PHOTOMETRIC DATA DRAWINGS WERE USED FOR DESIGN PURPOSES ON THIS PROJECT. OTHER MANUFACTURERS' PRODUCTS MAY BE SUBSTITUTED IF THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FOOTCANDLES ON THE ROADWAY AND SHOULDER ARE AT LEAST AS GREAT AS THAT INDICATED BY THE ABOVE PHOTOMETRICS.

GENERAL

ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES, AND REQUIREMENTS OF THE LOCAL UTILITY COMPANY AT THE POWER SOURCE. THE LOAD ON EACH BRANCH OF A THREE WIRE CIRCUIT SHALL BE AS BALANCED AS POSSIBLE, LOAD TO NEUTRAL. THE LAST CONCRETE POLE BASE AT THE END OF EACH CIRCUIT SHALL HAVE A CONDUIT SWEEP WITH CAP INSTALLED FOR FUTURE USE.



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PROJ.

STATEWIDE R LITE (2)

TRAFFIC SHEET NO. 6 OF 7

SHEET 6 OF 18 SHEETS