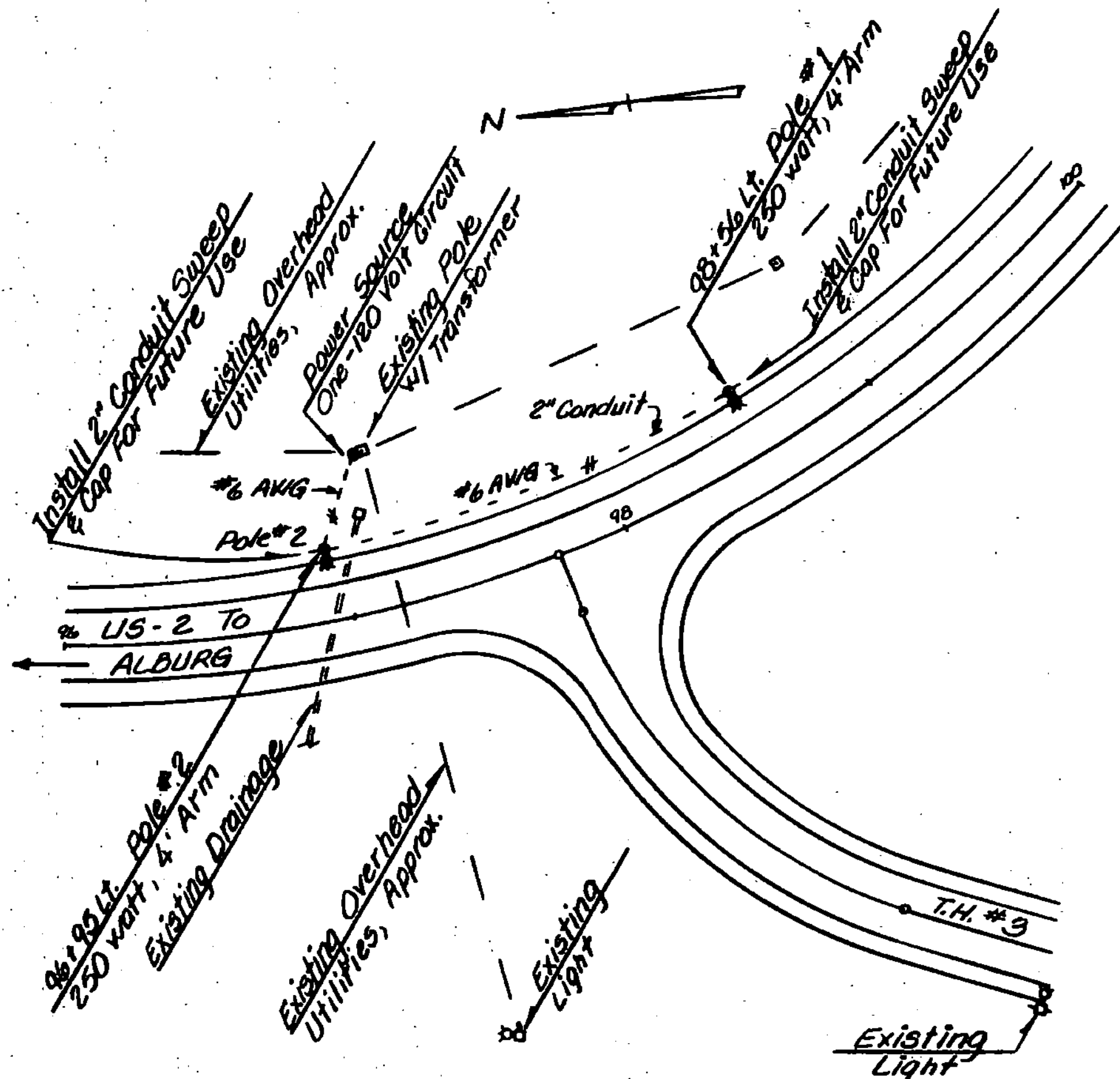
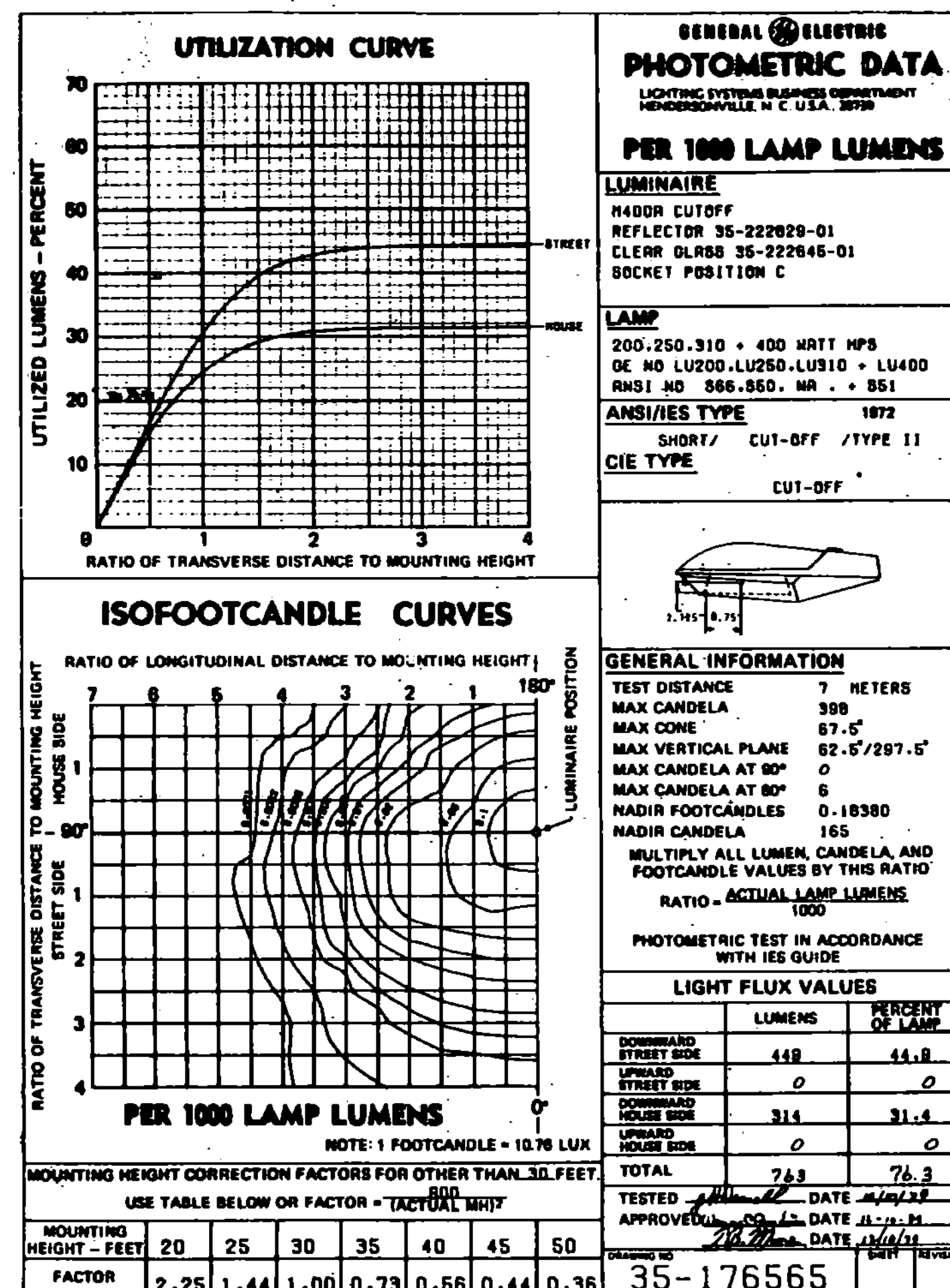




NOTE:
THE METER SOCKET AND OVERLOAD DISCONNECT BOX SHALL HAVE A NEMA CLASSIFICATION OF RAIN-TIGHT. WITH APPROVAL OF THE UTILITY COMPANY THE CONTRACTOR MAY ATTACH THE BOX TO THE EXISTING UTILITY POLE WHICH HAS A TRANSFORMER ON IT.



- LEGEND**
- PROPOSED NEW POLE AND LUMINAIRE
 - PROPOSED POWER SOURCE
 - EXISTING POLE AND LUMINAIRE
 - PROPOSED CONDUIT
 - EXISTING AERIAL UTILITIES

STREET LIGHTING NOTES

CONCRETE BASES
THE OFFSET AND LOCATION OF THE CONCRETE BASES SHALL BE AS SHOWN ON THE PLAN.
CARE SHALL BE TAKEN WHERE CONCRETE BASE AND DRAINAGE STRUCTURES ARE CLOSE TOGETHER.

CONDUIT
2" CONDUIT SHALL BE USED AT ALL LOCATIONS. ALL CONDUIT SHALL BE AT LEAST SCHEDULE 40 GALVANIZED STEEL ELECTRICAL CONDUIT.
THE FINAL CONDUIT DEPTH SHALL BE 3' OR AS DIRECTED BY THE RESIDENT ENGINEER.
A 6" WIDE YELLOW MARKING TAPE (PLASTIC) SHALL BE INSTALLED 6" TO 12" BELOW FINISH GRADE OVER THE CONDUIT RUNS.

GROUNDING
IN ADDITION TO A GROUND ROD AT EACH POLE BASE, A CONTINUOUS GROUNDING CIRCUIT SHALL BE RUN BACK TO A CIRCUIT PROTECTIVE DEVICE AT THE TRANSFORMER.
ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

POLES, ANCHOR BASES AND ARMS
NO 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).
THE TWO LIGHT POLE BASES SHALL HAVE A BREAKAWAY DESIGN FEATURE ADDED, SUCH AS BREAKAWAY COUPLINGS.

WIRE
ALL WIRING BETWEEN THE METER AND THE FIRST POLE AND BETWEEN POLES SHOULD BE ALUMINUM, SIZE AS INDICATED ON THE PLAN.
USE #10 AWG STRANDED COPPER WIRES IN EACH POLE BETWEEN THE POLE BASE AND THE LUMINAIRE.
ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR AND ACT AS ONE.
VOLTAGE LOSSES GREATER THAN 3% IN THE SECONDARY CIRCUIT REQUIRE LARGER WIRE.

LUMINAIRES
LUMINAIRES SHALL BE DESIGNED FOR STREET LIGHTING AND THE INDICATED LIGHT DISTRIBUTION. THEY SHALL HAVE AN ALUMINUM HOUSING WITH EASY ACCESS TO THE BALLAST ASSEMBLY, A PHOTO-ELECTRIC CONTROL, FILTERED OPTICAL ASSEMBLY, MEDIUM CUT OFF DISTRIBUTION AND REGULATOR BALLAST FOR 120 VOLT HIGH PRESSURE SODIUM LAMPS.
LIGHT DISTRIBUTION IS BASED ON GENERAL ELECTRIC PHOTOMETRIC DATA DRAWING 835-176565, SHORT CUTOFF, TYPE II DISTRIBUTION, DATED 12-10-79. THE ABOVE PHOTOMETRIC DATA DRAWING WAS USED FOR DESIGN PURPOSES ONLY.
THE INSTALLED LUMINAIRE LIGHT UTILIZATION AND MINIMUM FOOTCANDLES ON THE ROADWAY AND SHOULDER SHALL BE AT LEAST AS GREAT AS INDICATED BY THE ABOVE PHOTOMETRIC.

GENERAL
ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES AND THE LOCAL UTILITY COMPANY.
ALL STREET LIGHT POLES SHALL HAVE A METAL TAG ATTACHED TO THE HANDHOLE WITH THE POLE NUMBER, WATTAGE AND TYPE OF LAMP. EXAMPLE: 42-250W-H.P.S., (HPS= HIGH PRESSURE SODIUM). MINIMUM LETTER SIZE 1/2" HIGH. PAYMENT FOR TAGS SHALL BE SUBSIDIARY TO ITEM 679.15, STREET LIGHTING.

STREET LIGHTING DESIGN PARAMETERS

AVERAGE MAINTAINED ILLUMINATION: 1.0 FC MIN.
EXISTING ON PROJECT: UNKNOWN.
FILTERED LUMINAIRE: 0.95
LAMP DEPRECIATION: 0.75824, 000 HOURS.
COMBINED LAMP FACTOR: 0.7
MOUNTING HEIGHT FACTOR: 38/M.H.
UNIFORMITY RATIO: 4:1 (AVE./MIN.)
MINIMUM FOOTCANDLES ON ROADWAY: 0.28 FC. MIN.

WORK TO BE PERFORMED BY THE CONTRACTOR
THE CONTRACTOR SHALL: 1. INSTALL NEW CONCRETE BASES, POLES, LUMINAIRES, WIRING, CONDUIT, POLE RISER, WEATHER HEAD, METER SOCKET, RAIN TIGHT BOX WITH OVERLOAD DISCONNECT AND OTHER RELATED MATERIAL. 2. INSTALL METAL TAGS TO THE HANDHOLE OF THE NEW POLES WITH THE INFORMATION AS NOTED ON THE PLANS. 3. MAKE CONTACT WITH AND PERFORM WORK IN COMPLIANCE WITH THE LOCAL UTILITY COMPANY.
PAYMENT FOR THE ABOVE WORK WILL BE SUBSIDIARY TO ITEM 679.15, STREET LIGHTING.

ALBURG,
INTERSECTION OF US-ROUTE 2 & T.H.-3

**STREET LIGHTING
DESIGN CRITERIA
AND
GENERAL NOTES**

SURVEYED BY _____ DATE _____
DRAWN BY R. Davis DATE 9-85
TRACED BY _____ DATE _____
STATEWIDE
PROJ. F NO. 3FTY (85) 9
SHEET 55 OF 200