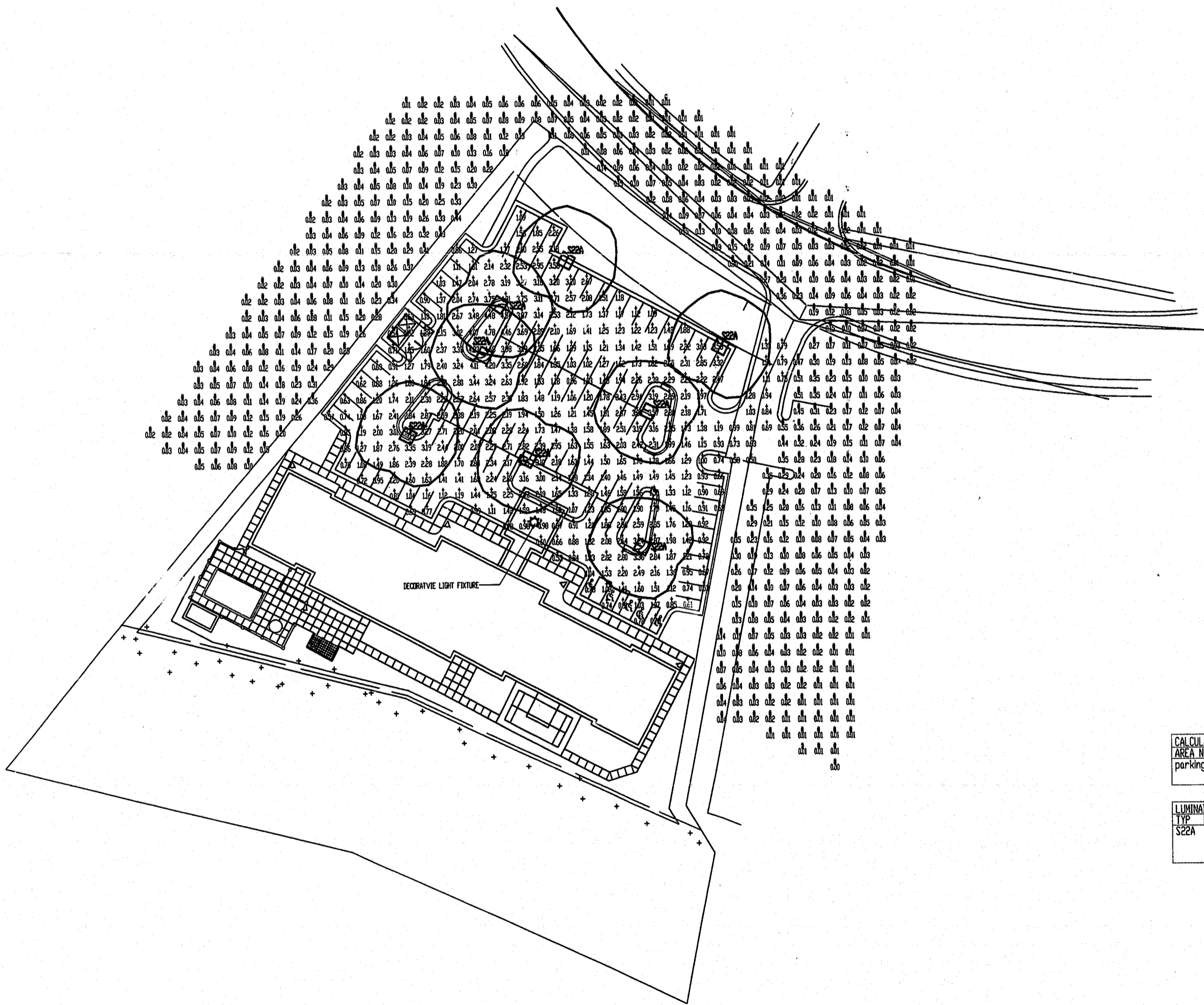


PROPRIETARY & CONFIDENTIAL

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The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to CP&L. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (signage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.



LIGHTING NOTES

ALL EXTERIOR SITE LIGHTING WILL BE DESIGNED TO PREVENT OFF-SITE GLARE.

THE DEVELOPER OF AIRPORT GATEWAY CENTER WILL BE RESPONSIBLE FOR ALL INSTALLATION COSTS ASSOCIATED WITH STREET LIGHTING ALONG ALL PROPOSED STREETS, ADJACENT STREETS AND THROUGHWAYS AS REQUIRED PER TOWN OF CARY POLICY STATEMENT NO. 13. THE DEVELOPER SHALL CONTACT CAROLINA POWER AND LIGHT COMPANY AFTER PLAN APPROVAL AND PRIOR TO CONSTRUCTION IN ORDER TO DEVELOP A STREET LIGHTING PLAN FOR THE SITE SUBDIVISION PLANS. Illuminance levels shown are calculated from the luminaire laboratory test data listed. Laboratory tests are made under optimum conditions, with lamp output at rated value, and in accordance with Illuminating Engineering Society approved methods. Actual illuminance levels may differ due to variance in lamp lumen output, lamp tilt factor, ballast voltage output, line voltage at ballast, reflector specificity, lamp lumen depreciation, and luminaire dirt depreciation. Light Loss Factor (LLF), if less than 1.00, indicates the anticipated effect of factors other than variable field conditions.

LIGHTING LEGEND

GE S222 (1) '002'
TYPE III CUTOFF SHOEBOX22_1-4/POLE
200W HPS
Mounting Height= 30 feet.
Initial Lumens per Lamp= 22000.
Light Loss Factor (LLF) = 0.72
Number Poles this type = 8
Pole Color: Dark Bronze

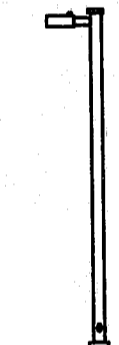
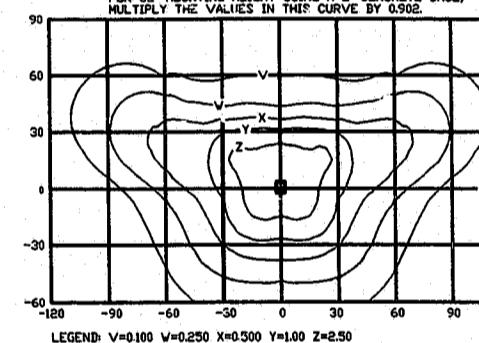
WIDE-LITE EP04-175-A-120-V/M/SMIT-2-DB
175 WATT STANCHION MOUNTED METAL HALIDE FLOOD LIGHT
WIDE BEAM DISTRIBUTION PATTERN, ALUMINUM HOUSING
SEALED AND GASKETED TEMPERED GLASS LENS - 120 VOLT
Number of fixtures this type = 4
Fixture Color: Dark Bronze

ISOFOTOCANDLE CURVES

FEATURE: STYLE: SHOBEX
MOUNTING HEIGHT: 30 FT
LUMENS: 22000
LUMEN DEPR: 0.72
PATTERN: TYPE III CUTOFF
CN120-493-09, BRN
CN120-495-07, BLK

NOTE: THE FOOTCANDLE READINGS BELOW ARE INITIAL AND HAVE NOT BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION. FOR MAINTAINED FOOTCANDLES, MULTIPLY THE READINGS BELOW BY .72.

FOR 30' MOUNTING HEIGHT USING A 6" CONCRETE BASE, MULTIPLY THE VALUES IN THE CURVE BY .506.



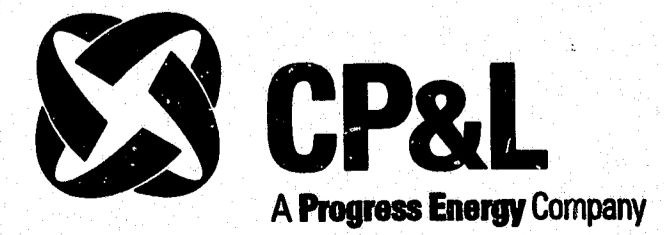
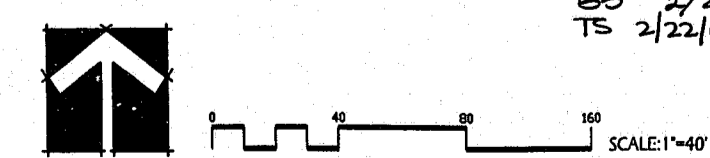
CALCULATION SUMMARY-

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
parking		(4)	1.9	4.8	0.5
		(8)	0.1	0.5	0.0

LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF	QTY
S22A		GE S222 1/POLE (1) *S22* SB_HP222_1-4/POLE	(1) LU-200	22000	30 FT. MH. 22000 LUMEN HPS	0.72	8

01-SP-013
APPROVED
DRC 2/5/02
BB 2/21/02
TS 2/22/02



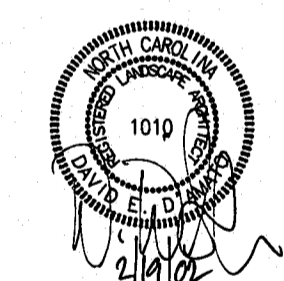
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Drawn By: BAO/H
Checked By: DED
Date: 5 FEBRUARY 2001
Proj#:

Revisions:
26 MARCH 2001-TOC
21 JUNE 2001-TOC 3RD REV.
6 AUG2001-TOC 4TH REV.

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ISOLUX
LIGHTING
PLAN

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of 13 **SP-5**