LIGHTING SURVEY NOTES:

ON SEPTEMBER 13, 2012, AT APPROXIMATELY 7:40PM, EXISTING EXTERIOR LIGHTING CIRCUITS WERE ENERGIZED AT THIS PROPERTY. DIGITAL IMAGES OF THE PARKING LOT WERE THEN TAKEN. AT APPROXIMATELY 8PM, TWILIGHT HAVING BECOME NEGLIGIBLE, LIGHT METER READINGS WITH A SPER SCIENTIFIC MODEL 840020 LIGHT METER, SERIAL NUMBER 037954, COMMENCED. READINGS WERE TAKEN AT A SUFFICIENT NUMBER OF LOCATIONS TO ESTABLISH MAXIMUM AND MINIMUM READINGS AND A REASONABLE AVERAGE OF FOOT-CANDLES OVER THE ENTIRE PARKING SPACE AREA.

THE PARKING LOT LIGHTING FIXTURES ARE, PRIMARILY, OF THE SHOEBOX, METAL HALIDE TYPE, MOUNTED ON SQUARE CONCRETE POLES AT AN APPROXIMATELY 30 FOOT HEIGHT. THREE OF THE FIXTURES WERE NOT OPERATING, AND THE OPERATING STATUS OF EACH FIXTURE IS INDICATED IN THE DRAWING BELOW. THE 150 WATT HIGH PRESSURE SODIUM STREET LIGHT ON MAPLE AVENUE WAS CYCLING ON AND OFF, RENDERING INCONSISTENT READINGS IN THAT AREA. THE TWO 250 WATT HIGH PRESSURE SODIUM STREET LIGHTS ON U.S. 1 WERE OPERATING NORMALLY.

PARKING AREA LIGHTING SURVEY STATISTICAL RESULTS:

NUMBER OF READINGS IN PARKING AREA = 52
MINIMUM FOOT-CANDLES = 0.36 FC (NW CORNER AREA)
MAXIMUM FOOT-CANDLES = 10.44 FC
AVERAGE FOOT-CANDLES = 2.61 FC
UNIFORMITY (AVERAGE/MIN) = 2.61/.36 = 7.25:1

ENGINEER'S LETTER OF COMPLIANCE:

CITY OF FORT PIERCE MUNICIPAL CODE, ARTICLE IV, SECTION 22-60(j)

(1)(a) 2.61 FC AVERAGE > 2 FC COMPLIES.
(2) 7.25 > 4 UNIFORMITY DOES NOT COMPLY. (SEE RECOMMENDATIONS).
(3) PROPERTY HAS LIGHTING TIME CLOCK AND COMPLIES.
(4) SPILL TO WEST < 0.5 FC COMPLIES; SPILL TO SOUTH < 0.5 FC COMPLIES; SPILL TO NORTH > 0.5 FC DOES NOT COMPLY. (SEE RECOMMENDATIONS)
(5) COMPLIANCE PENDING REPAIRS AND ANY IMPROVEMENTS

RECOMMENDATIONS:

1. APPLICANT SHOULD CONTACT FPUA FOR REPAIR OF MAPLE AVENUE STREET LIGHT.

2. APPLICANT SHOULD INSTALL A SOFFIT LIGHTING FIXTURE AT THE SOUTH EMERGENCY EXIT TO PROVIDE MEANS OF EGRESS LIGHTING COMPLIANT WITH THE FLORIDA BUILDING CODE (FBC).

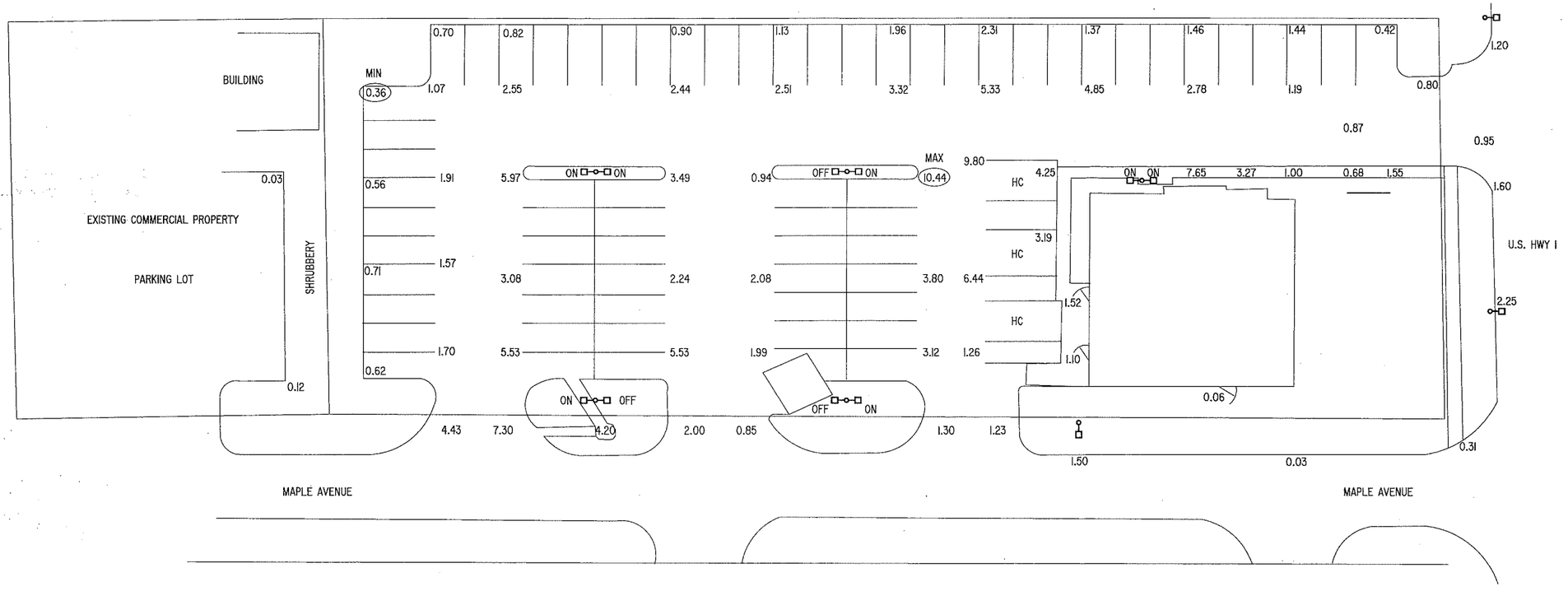
3. APPLICANT SHOULD REPAIR ILLUMINATED SIGN TO PROVIDE MEANS OF EGRESS LIGHTING OF EASTERLY WALKWAY FROM NORTH DOOR TO THE PUBLIC WAY COMPLIANT WITH THE FBC.

4. APPLICANT SHOULD ADJUST FLOOD LIGHT ON EASTERLY POLE TO IMPROVE UNIFORMITY OF LIGHTING OF EAST DRIVEWAY AREA.

5. APPLICANT SHOULD REPAIR POLE MOUNTED FIXTURES THAT WERE OFF AS OF THE DATE OF THIS SURVEY.

6. APPLICANT SHOULD IDENTIFY NEW FIXTURES WITH A LIGHT DISTRIBUTION THAT WILL RAISE ILLUMINATION OF THE WEST AREA OF THE PARKING LOT AND BRING OVERALL UNIFORMITY INTO COMPLIANCE.

7. BUILDING TO THE NORTH IS VERY CLOSE TO THE PROPERTY LINE. THE USE OF FIXTURE SHIELDS SHOULD BE ANALYZED TO DETERMINE IF THAT MEASURE WILL ACHIEVE COMPLIANCE WITHOUT UNDULY AFFECTING AVERAGE ILLUMINATION OR UNIFORMITY. A BARRIER ON THE PROPERTY LINE MAY NOT BE POSSIBLE. A MUTUALLY AGREEABLE SOLUTION MAY BE OBTAINABLE FROM THE ROADSIDE INN OWNER AND PRESENTED FOR WAIVER.



LIGHT SURVEY 2526 S. U.S. 1, FORT PIERCE

NO.	DATE	REVISIONS	BY	APP

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Dependable Mechanical, Electrical & Plumbing Design
C.A. No. 28172
315 South 7th Street
Fort Pierce, FL. 34950
Phone: 772 672-4636
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PROJECT NAME:
SPIN-WIN ARCADE EXTERIOR LIGHTING SURVEY

PROJECT LOCATION:
2825 S. U.S. 1
FORT PIERCE, FL. 34982

CLIENT:
SPIN-WIN ARCADE

ENGINEER SEAL

TIMOTHY G. TREWYN LICENSE No. 61580 STATE OF FLORIDA PROFESSIONAL ENGINEER

Timothy G. Trewyn, PE
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SHEET TITLE
EXTERIOR LIGHTING PHOTOMETRIC SURVEY

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SHEET 1 OF 1
12060-01