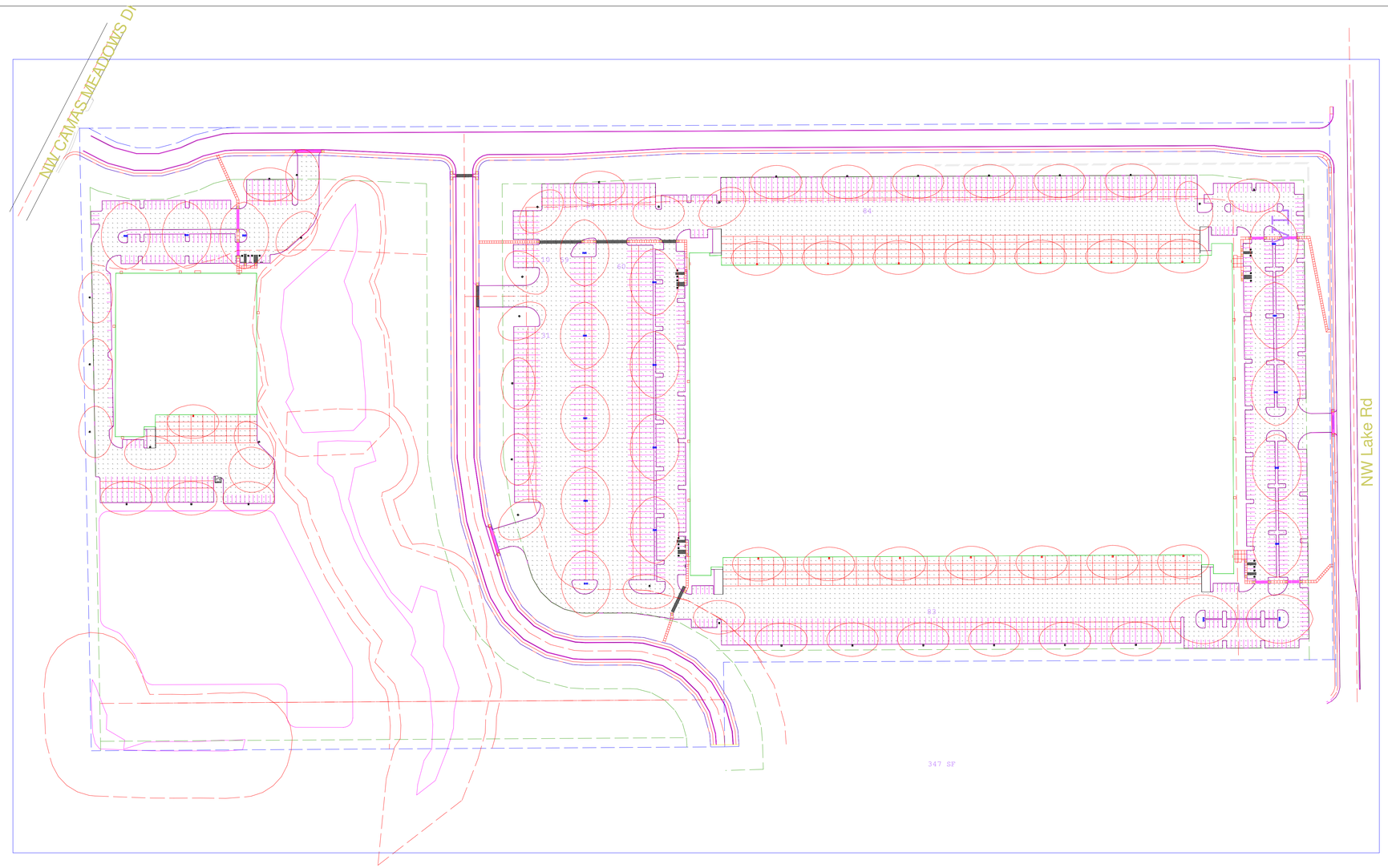

Luminaire Schedule						
Symbol	Qty	Label	LLF	Description	Wattage	Lumens per Fixture
	36	IAHP1C1xxxFD850xxT3	0.935	ISON LED Area Light High Performance Gen 1, 143W, 23000 Lumens, 80CRI, 5000K, Ty	138.9	22360
	15	IAHP1C1xxxFD850xxT3-WM	0.935	ISON LED Area Light High Performance Gen 1, 143W, 23000 Lumens, 80CRI, 5000K, Ty	138.9	22360
	19	IAHP1C1xxxFD850xxT3-B2B	0.935	ISON LED Area Light High Performance Gen 1, 143W, 23000 Lumens, 80CRI, 5000K, Ty	138.9	22360

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	FC Req	AFF
Building 1 Lot	Illuminance	Fc	1.41	10.9	0.0	N.A.	N.A.	1 FC	0"
Building 2 Lot	Illuminance	Fc	1.86	10.7	0.1	18.60	107.00	1 FC	0"

IMPORTANT

1.) Presentation plans only. Not for construction use.
2.) Calculations performed on representative aisles only and are inclusive of all contributing light.

AREA LAYOUT

(1) GENERAL NOTES
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2) NO OBJECTS CONSIDERED IN CALCULATIONS UNLESS OTHERWISE NOTED ON THE PRINT.

3) STANDARD REFLECTION VALUES
CEILING: .8
WALLS: .5
FLOOR: .2
RACKING: .5

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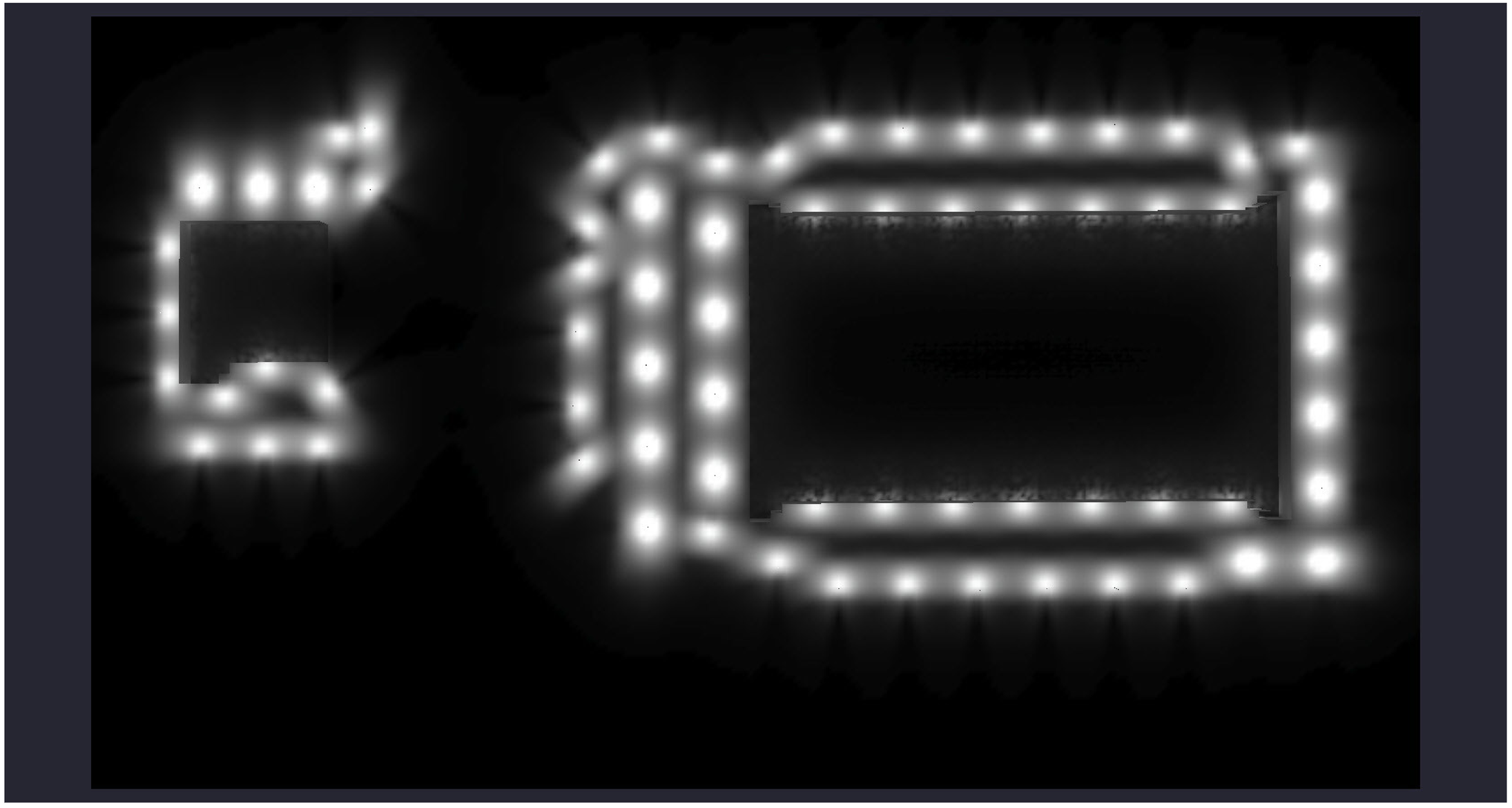

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RENDERING

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1. DESCRIPTION OF PHOTOMETRIC DRAWING:
THE PURPOSE OF THE FOLLOWING DRAWING(S) IS TO CREATE A CLOSE REPRESENTATION OF FOOT-CANDLE READINGS THE CLIENT CAN EXPECT TO ACHIEVE AFTER THE FIXTURES HAVE BEEN INSTALLED. INCLUDED IN THIS SET OF DRAWING(S) WILL BE A FIXTURE LAYOUT, A LUMINAIRE SCHEDULE SHOWING THE TOTAL NUMBER OF FIXTURES REQUIRED (PER FIXTURE TYPE) AND LIGHT LOSS FACTOR USED FOR EACH FIXTURE AND A CALCULATION SCHEDULE SHOWING THE AVERAGE, MAXIMUM AND MINIMUM FOOT-CANDLE READINGS PER AREA.

2. FIELD VERIFICATION:
CALCULATIONS ARE PROVIDED USING INDUSTRY RECOGNIZED SOFTWARE AND ARE PROVIDED FORESTIMATION PURPOSES ONLY. HOWEVER, ACTUAL LIGHTING LEVELS WILL VARY DEPENDING ON FIELD CONDITIONS INCLUDING BUT NOT LIMITED TO ROOM CHARACTERISTICS AND TEMPERATURE. THE CALCULATIONS CORRESPOND TO THE INFORMATION PROVIDED TO ORION. ASSUMPTIONS MAY BE MADE FOR INFORMATION THAT IS NOT PROVIDED.IT IS THE RESPONSIBILITY OF THOSE USING THIS SERVICE TO VERIFY THAT OUR INPUT DATA IS CONSISTENT WITH ACTUAL FIELD CONDITIONS. CALCULATIONS ARE SUBJECT TO LIMITATIONS OF THE SOFTWARE. DUE TO THE ABOVE CONSIDERATIONS, ORION WILL NOT GUARANTEE THAT ACTUAL LIGHT LEVELS MEASURED IN THE FIELD WILL MATCH THE INITIAL CALCULATIONS. ALLTHOUGH ALL EFFORTS HAVE BEEN MADE TO PLACE LIGHT FIXTURES FREE OF OBSTACLES WHEN PROVIDED WITH SUCH INFORMATION, IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY FIXTURE LOCATIONS ARE FREE OF ANY STEEL, HVAC, SPRINKLER SYSTEMS, ETC. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO MAKE SURE LIGHT FIXTURES ARE INSTALLED IN ACCORDANCE WITH LOCAL CODES, FM GLOBAL AND ESFR.

3. PERMITTING
IT IS THE RESPONSIBILITY OF THE LICENCED CONTRACTOR TO CONTACT THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) TO VERIFY ALL LOCAL CODES AND TO ENSURE COMPLIANCE OF THESE CODES.

4. IES FILES
IESNA STANDS FOR THE "ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA" AND BUILDING ACOUSTICS & LIGHTING LABS TESTS TO THEIR STANDARDS AS WELL AS MANY OTHERS. AN IES DATA FILE IS AN ELECTRONIC PHOTOMETRIC DATA FILE THAT CAN BE PUT INTO AN APPLICATION PROGRAM TO DETERMINE YOUR LUMINAIRES PERFORMANCE INSTANTLY. THESE STANDARDS ARE ESTABLISHED TO ENSURE THAT ALL THE INDEPENDENT LABORATORIES WILL GIVE COMPARABLE RESULTS. THUS ALLOWING MANUFACTURER A TO TEST WITH ONE LAB AND MANUFACTURER B TO TEST WITH ANOTHER LAB AND YOU CAN DIRECTLY COMPARE THE TWO RESULTING REPORTS IN AREAS OF EFFICIENCY, LIGHT DISTRIBUTI0N AND SO ON.

5. LIGHT METER VARIABLES
DUE TO THE FACT THAT LIGHT METERS ARE NOT ALL MADE BY THE SAME MANUFACTURER, YOU MAY SEE DIFFERENT READINGS DEPENDING ON THE LIGHT METER BEING USED. OTHER VARIABLES WHICH MAY CREATE DIFFERENT LIGHT READINGS THAN WHAT IS SHOWN ON THE PHOTOMETRIC LAYOUT MAY INCLUDE BUT ARE NOT LIMITED TO: SHADOWS PRODUCED BY FRAMING, HVAC, EVAPORATORS, ETC.

6. DEFINITION OF TERMS

EFFICACY
A MEASUREMENT OF HOW EFFECTIVE THE LIGHT SOURCE IS IN CONVERTING ELECTRICAL ENERGY TO LUMENS OF VISIBLE LIGHT. EXPRESSED IN LUMENS-PER-WATT (LPW) THIS MEASURE GIVES MORE WEIGHT TO THE YELLOW REGION OF THE SPECTRUM AND LESS WEIGHT TO THE BLUE AND RED REGION WHERE THE EYE IS NOT AS SENSITIVE.

LUMINAIRE EFFICIENCY
THE EFFICIENCY OF A LUMINAIRE OR FIXTURE IS THE PERCENTAGE OF THE TOTAL LUMENS PRODUCED THAT ARE DELIVERED BY THE FIXTURE.

FOOT CANDLES
A UNIT OF ILLUMINANCE OR INCIDENT LIGHT REFLECTING FROM A SURFACE. IT IS DEFINED AS THE AMOUNT OF LIGHT ON A ONE SQUARE FOOT SURFACE ONE FOOT FROM A STANDARD CANDLE. ONE FOOTCANDLE IS EQUAL TO ONE LUMEN PER SQUARE FOOT.

ILLUMINANCE
ILLUMINANCE IS THE TOTAL LUMINOUS FLUX INCIDENT ON A SURFACE, PER UNIT AREA. IT IS A MEASURE OF HOW MUCH THE INCIDENT LIGHT ILLUMINATES THE SURFACE. ILLUMINANCE IS MEASURED IN FOOTCANDLES OR LUX.

LIGHT EMITTING DIODE (LED)
A SOLID THAT DIRECTLY CONVERTS ELECTRICAL IMPULSES INTO LIGHT. LED'S ARE TEMPERATURE DEPENDANT, NOT ONLY FOR LONG LIFE, BUT SO THAT THE MAXIMUM LIGHT OUTPUT, QUALITY AND RELIABILITY OF THE DEVICE IS PRESERVED.

LIGHT LOSS FACTOR (LLF)
THE PRODUCT OF ALL FACTORS THAT CONTRIBUTE TO LOWERING THE ILLUMINATION LEVEL INCLUDING REFLECTOR DEGRADATION, DIRT, LAMP DEPRECIATION OVER TIME, VOLTAGE FLUCTUATIONS, ETC.

LUMENS
A MEASURE OF THE LUMINOUS FLUX OF LIGHT EMITTED BY A SOURCE. FOR EXAMPLE, A DINNER CANDLE PROVIDES ABOUT 12 LUMENS. A 60-WATT SOFT WHITE INCANDESCENT LAMP PROVIDES ABOUT 840 LUMENS.

LUMINAIRE
A COMPLETE LIGHTING UNIT CONSISTING OF A LAMP (OR LAMPS), BALLAST (OR BALLASTS) AS REQUIRED TOGETHER WITH THE PARTS DESIGNED TO DISTRIBUTE THE LIGHT, POSITION AND PROTECT THE LAMPS AND CONNECT THEM TO THE POWER SUPPLY. A LUMINAIRE IS OFTEN REFERRED TO AS A FIXTURE.

LUMINANCE
A MEASURE OF "SURFACE BRIGHTNESS" WHEN AN OBSERVER IS LOOKING IN THE DIRECTION OF THE SURFACE. IT IS MEASURED IN CANDELAS PER SQUARE METER (OR PER SQUARE FOOT) AND WAS FORMERLY REFERRED TO AS "PHOTOMETRIC BRIGHTNESS."

REFLECTANCE
THE RATIO OF LIGHT REFLECTED FROM A SURFACE TO THAT INCIDENT UPON IT.

WATTS
A UNIT OF ELECTRICAL POWER. LAMPS ARE RATED IN WATTS TO INDICATE THE RATE AT WHICH THEY CONSUME ENERGY.

DISCLAIMER

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