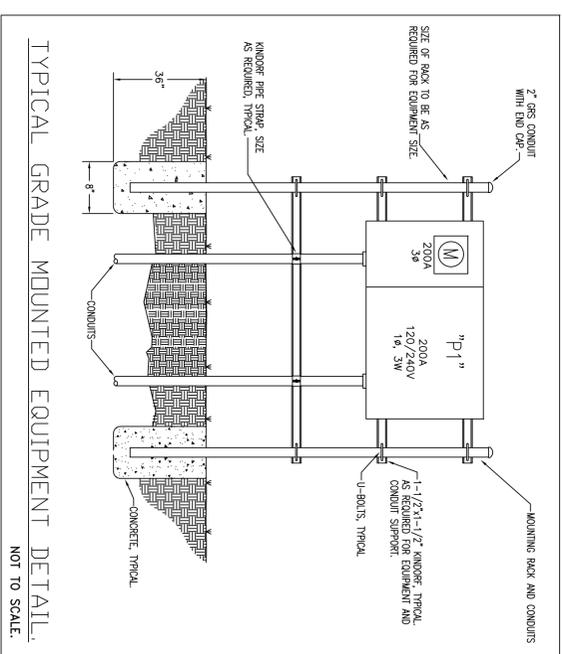


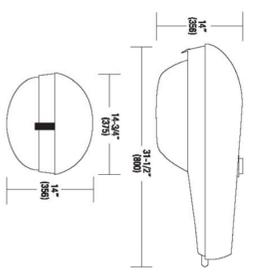
NAME: DISTRIBUTION PANEL		MAIN BUS: 200A	
SERVING: SURFACE		NEUTRAL: FULL	
MOUNTING: OUTDOOR		PANEL: 'P1'	
LOCATION: OUTDOOR		RATED: 200A	
MAX. DEM. POLE	WIRE	REMARKS	WIRE COM. RATED
0.771	20	1 A 1	20
1.542	20	3 B 4	20
5/8	1	6 POLES: 13,14,15,17,18	1,159
		3 C 4	
		7 A 8	
		9 B 10	
		11 C 12	
		13 A 14	
		15 B 16	
		17 C 18	
TOTAL MAXIMUM DEMAND LOAD: 11.4+43.18 = 14.6 MW.		TOTAL CALCULATED LOAD: 14.6 MW/240 = 61 AMPS	
11.4		3.18	



LIGHT FIXTURE DETAIL AND DIMENSIONS.

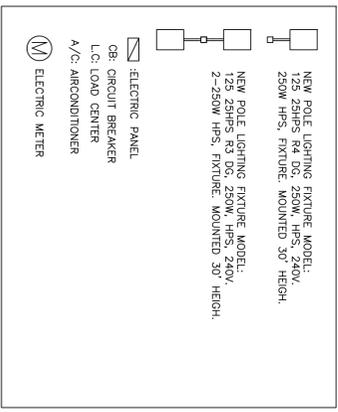
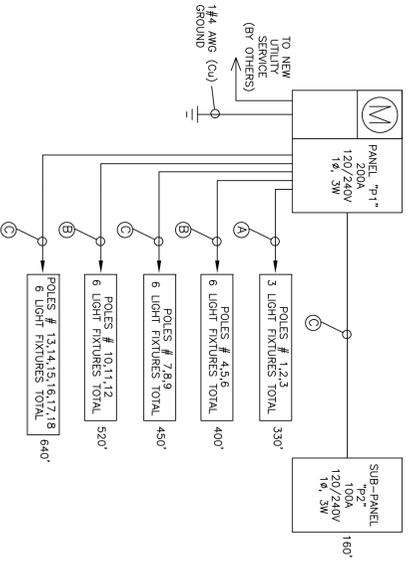


DIMENSIONS



Effective Projected Area (EMA)
The EMA for the horizontal luminaire series 123 is 1.39 sq ft.
Approx. V_h = 3.50kV

- SCOPE OF WORK.
- PURPOSE OF THIS PERMIT IS TO INSTALL 18 NEW 30 FEET HIGH POLE LIGHTS WITH 28-250W HPS, 240V LIGHT FIXTURE TO PROVIDE ADEQUATE ILLUMINATION FOR THE NEW PHASE.
 - EACH LIGHT FIXTURE HAS ITS OWN PROPOSED WIRING.
 - POWER IS GOING TO BE PROVIDED TO A NEW GUARD BOOTH FACTORY ASSEMBLY AND WIRE.
 - NEW FLOOR PLAN AND RISER DIAGRAM FOR INSTALLATION.
 - NEW ELECTRIC SERVICE IS 200 AMPS, 120/240V, 1Ø, 3W SERVICE WITH AN ELECTRIC METER AND PANEL.
 - SERVE MAXIMUM DEMAND CALCULATION PROVIDED.



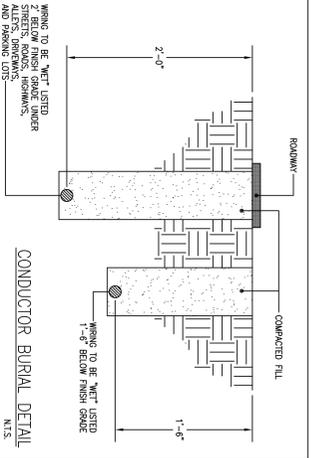
BRANCH CIRCUITS VOLTAGE DROP CALCULATIONS.

Circuit	Length (ft)	Drop (V)	Drop (%)
Circuit 'A': 3 LIGHT FIXTURE (3 POLES), LENGTH = 330 FEET	25.8 x 660 x 3.21	55.2	2.3%
Circuit 'B': 6 LIGHT FIXTURE (3 POLES), LENGTH = 400 FEET	25.8 x 800 x 6.83	140.2	5.8%
Circuit 'C': 6 LIGHT FIXTURE (3 POLES), LENGTH = 450 FEET	25.8 x 900 x 6.83	158.2	6.4%
Circuit 'D': 6 LIGHT FIXTURE (6 POLES), LENGTH = 520 FEET	25.8 x 1040 x 6.83	187.2	7.5%
Circuit 'E': 6 LIGHT FIXTURE (6 POLES), LENGTH = 640 FEET	25.8 x 1280 x 6.43	210.2	8.5%
Circuit 'G': GUARD BOOTH, LENGTH = 160 FEET	25.8 x 320 x 4.0	33.2	1.3%

ALL BRANCH CIRCUITS VOLTAGE DROP IS EQUAL OR LESS THAN 5%.

GENERAL ELECTRICAL NOTES

- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC) AND THE LATEST EDITIONS OF ALL LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC. SHALL BE LISTED, FOR INTENDED USE, WITH UNDERWRITERS' LABORATORIES INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
- ALL CONDUIT RISERS SHALL BE RIGID GALVANIZED STEEL (RGS) EMT OR PVC. WHERE CONDUIT BENDS UPWARD FROM UNDERGROUND TO ABOVE GROUND, OR FROM ABOVE GROUND TO UNDERGROUND, THE CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) EMT OR PVC. RGS CONDUITS SHALL EXTEND A MINIMUM OF 457.2MM (18") BELOW GRADE.
- ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED BY THE CONTRACTOR.
- CONTRACTOR SHALL BE SEERD AS REQUIRED PER NEC, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE SEERD AS REQUIRED PER NEC, UNLESS OTHERWISE NOTED.
- PRIOR TO CONSTRUCTION.
- CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS PRIOR TO INSTALLATION.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL KEEP ALL PERSONS IN WHICH WORK IS BEING PERFORMED, CLEAN AT THE END OF EACH WORKING DAY.
- IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
- COORDINATE ALL ELECTRICAL SITE WORK WITH ALL OTHER TRADES CONTRACTORS.
- ALL ELECTRICAL EQUIPMENT SHALL BE RAINIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND MEET RATED FOR THE APPLICATION. ALL ELECTRICAL EQUIPMENT SHALL BE RATED FOR THE APPLICATION.
- FINISH AND INSTALL CONDUITORS TO MATCH BUILDING COLOR CODE. IF THERE IS NO BUILDING CODE, THE FOLLOWING COLOR CODING SHALL BE ADHERED TO:
NEUTRAL --- WHITE
PHASE A --- BLACK
PHASE B --- BLUE
PHASE C --- ORANGE (H-LEG IF EXISTING)
GROUND --- GREEN
ALL OTHER SYSTEMS SHALL BE INSTALLED UTILIZING DIFFERENT COLOR WIRING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM MANUFACTURERS, RECOMMENDATIONS SO AS NOT TO VOID ANY WARRANTY. STORE ALL EQUIPMENT ABOVE GROUND IN A DRY, COVERED AREA TO PROTECT FROM MOISTURE AND DAMAGE. IF EQUIPMENT IS DAMAGED, THE CONTRACTOR IS TO PROVIDE A NEW REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.



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PROJECT NUMBER: 201304263
SCALE: AS NOTED
DATE: 4-26-13
REVISED BY: J.T.

FACE TITLE: RISER DIAGRAM PANEL SCHEDULE AND NOTES.

PAGE NUMBER: E-3 OF 3

All drawings and written material appearing herein constitute the original and unpublished work, and may not be duplicated, used or disclosed without the express written consent of Javier Tuchman P.E. Engineer is not responsible if any changes are made without his approval.

PROJECT NAME AND ADDRESS:
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1455 NW 17th Street, Miami, Florida, 33125.

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REVISION NO.	DATE	COMMENTS