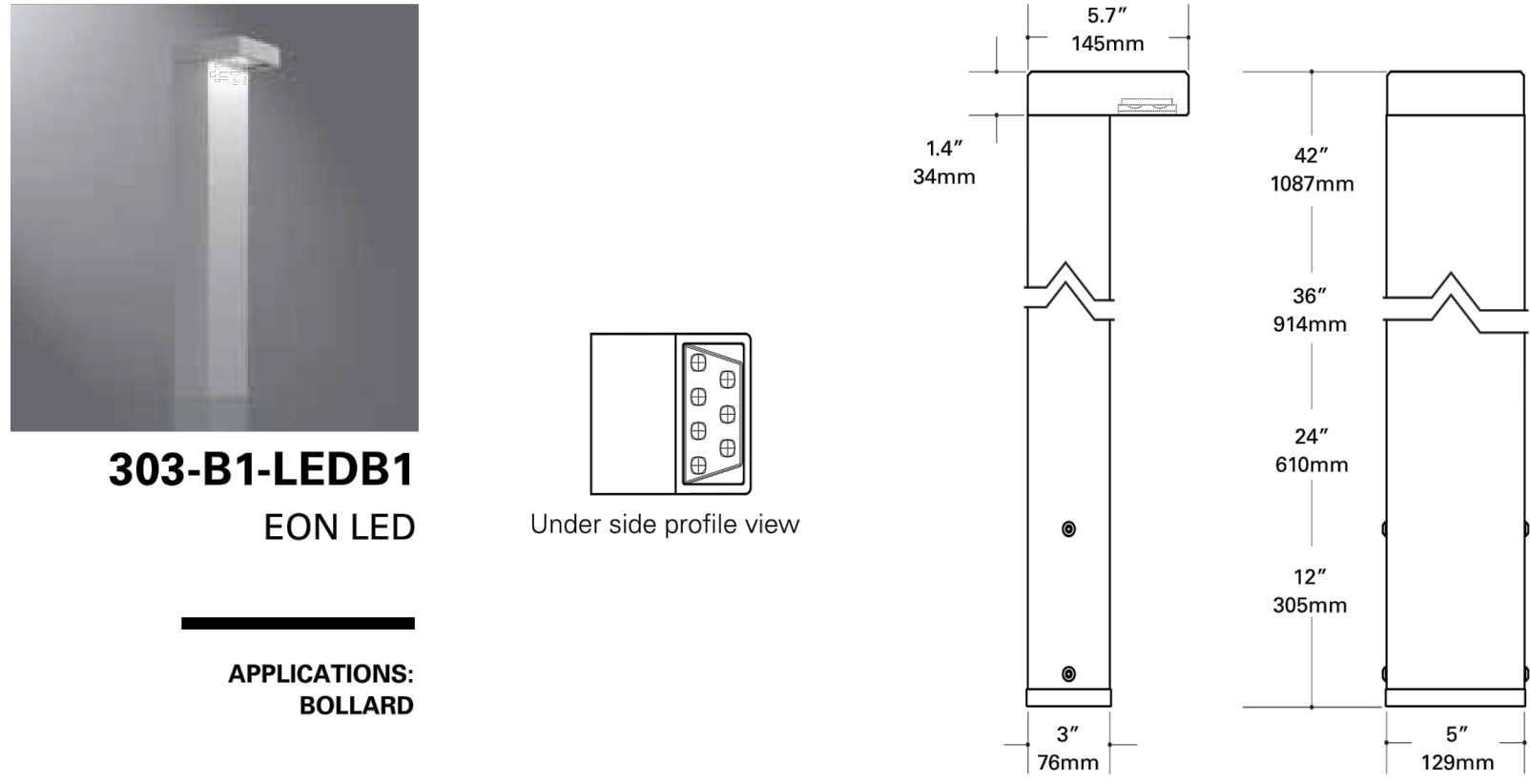
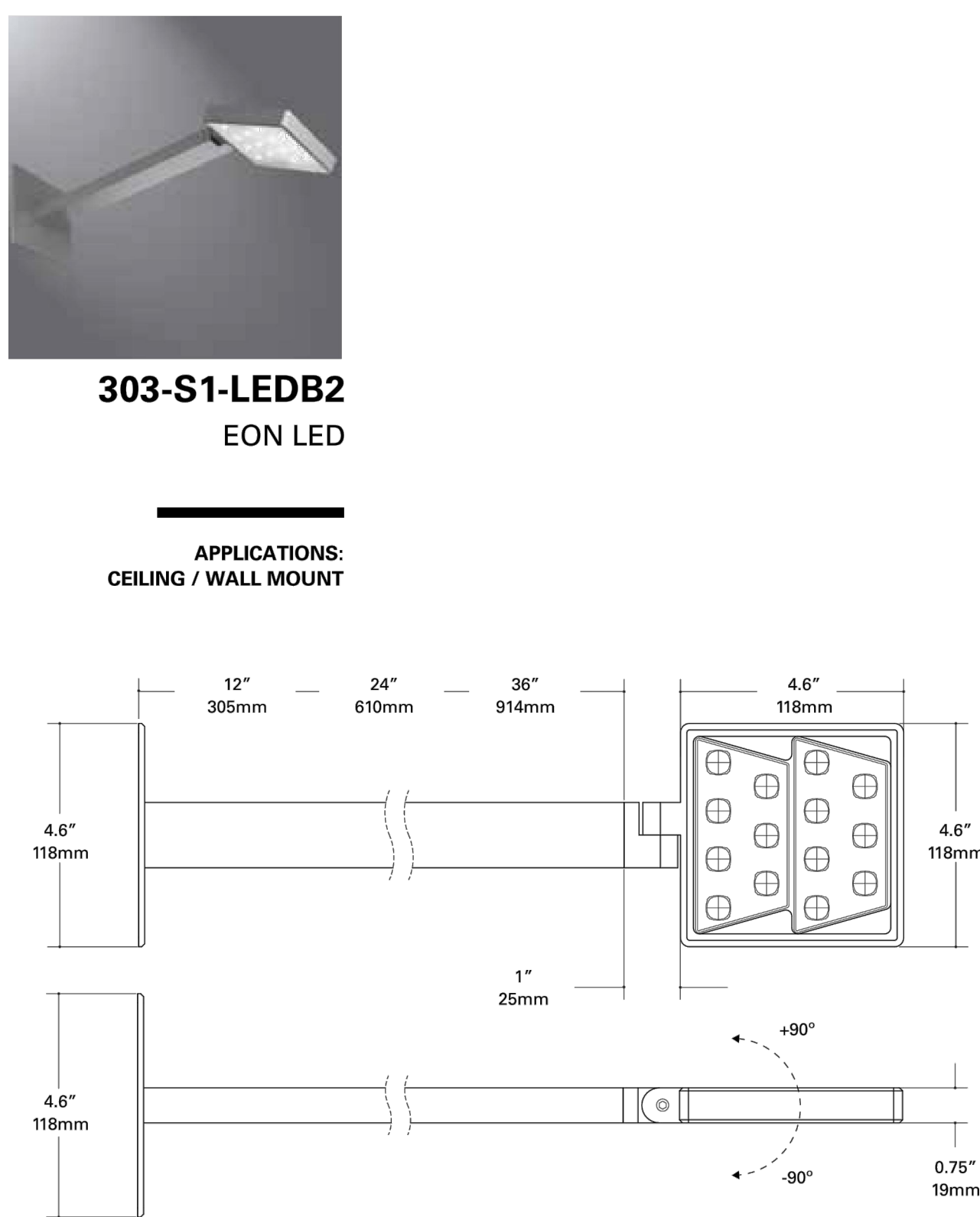


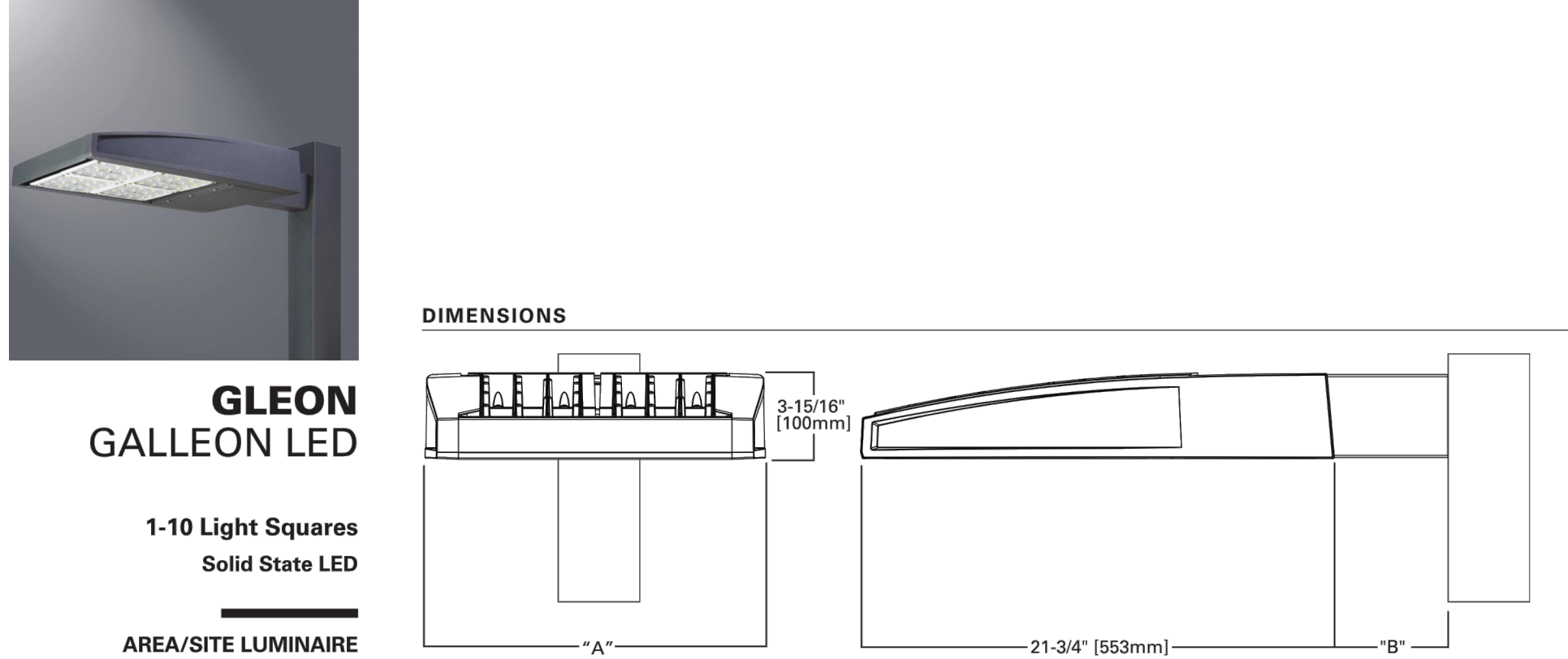
NEW BOLLARD LIGHTING FIXTURE
PHASE II ENTRY PLAZA



NEW WALL LIGHTING FIXTURE
PHASE I AND PHASE II



NEW SITE LIGHTING FIXTURE
PHASE I AND PHASE II



Luminaire Location Summary						
LumNo	Label	X	Y	MH	Orient	Tilt
1	P1-5WQ	59.9	125.885	20	90	0
2	P1-5WQ	237.85	119.385	20	90	0
3	P1-5WQ	59.4	95.885	20	270	0
4	P1-5WQ	230.65	91.885	20	270	0
5	P1-SL4	465.15	248.885	30	180	0
6	P2-5WQ	110.15	98.635	20	90	0
7	P2-5WQ	173.9	98.635	20	90	0
8	P2-5WQ	265.4	249.885	30	90	0
9	P2-5WQ	368.4	240.135	30	90	0
10	P2-T3	19.15	339.135	20	90	0
11	P2-T3	86.65	329.885	20	90	0
12	P2-T3	179.65	329.885	20	90	0
13	P2-T3	229.9	329.885	20	90	0
14	WP	334.4	354.135	12	90	0
15	WP	308.65	266.135	12	180	0
16	WP	308.65	339.385	12	180	0
17	XX	307.265	361.408	30	270	0
18	XX	413.697	371.845	30	270	0
19	XX1	468.5	335.351	30	180	0
Total Quantity: 19						

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LFP Description	Lum. Watts	Total Watts
1	4	P1-5WQ	SINGLE	5.0W GLEON AF-42 LED-E1-SWG	113	452
2	4	P1-SL4	SINGLE	5.0W GLEON AF-42 LED-E1-SL4	94	376
3	4	P2-5WQ	BACK-2-2	5.0W GLEON AF-42 LED-E1-SWG	113	452
4	4	P2-T3	BACK-2-2	5.0W GLEON AF-42 LED-E1-T3	113	452
5	3	WP	SINGLE	5.0W HT-522 LED-E1-SL3	46.9	140.7
6	2	XX	SINGLE	5.0W GLEON AF-42 LED-E1-SL4-400-100	94	188
7	1	XX1	SINGLE	5.0W GLEON AF-42 LED-E1-SL4-400	94	188

GENERAL NOTES

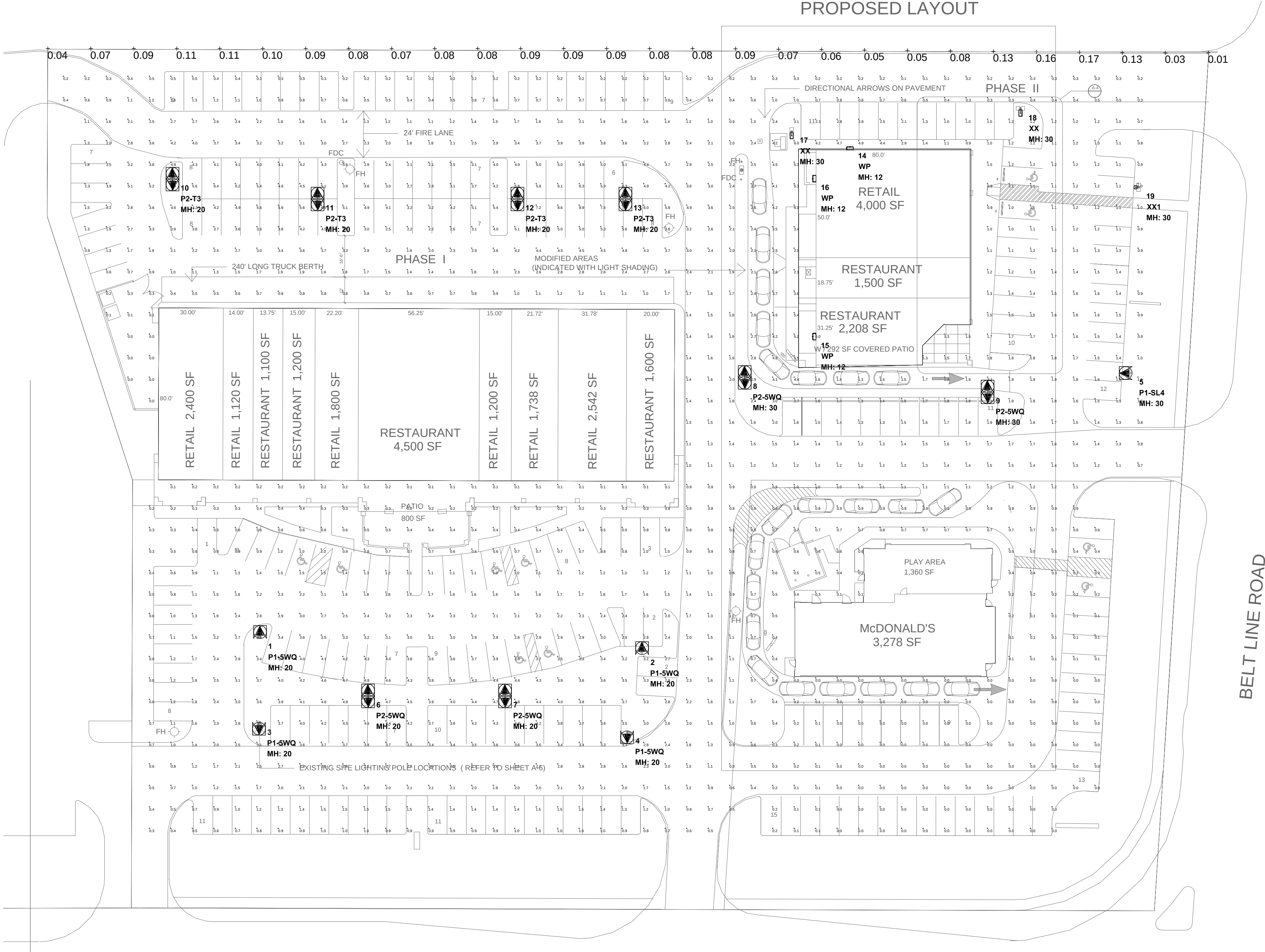
1) Assumed reflectance: 0.8 ceilings, 0.5 walls, 0.2 floors
2) Workplane based on 2'-0" AFF for rooms and 0'-0" AFF for corridors

-This calculation is based on an open area.
Objects and obstructions within this area
will affect final lighting levels.

-The calculated footcandle levels indicate luminaire performance
based on the information provided to Texas Lighting Sales, Inc.
We make no claims of compliance with any local or state lighting
codes.

-Calculations are provided using industry recognized
software and are provided for estimation purposes only.
Input data for the calculations corresponds to the
information provided to us (assumptions may be made
for information that is not provided). It is the
responsibility of those using this service to verify
our input data is consistent with expected field
conditions. Results of the lighting calculations
accurately reflect the input data. However, actual
lighting levels will vary depending on field conditions
such as room characteristics, temperature, voltage
and lamp/ballast output and other factors.
Calculations are also subject to the limitations of
the software. Due to the above considerations,
Texas Lighting Sales cannot guaranty that actual
light levels measured in the field will match our
initial calculations.

Calculation Summary												
Label	CalcType	Units	Avg	Max	Min	AvgMin	MaxMin	PSpC/L	PSpC/Tb	CAL HT		
Property Line	Illuminance	Fc	0.09	0.17	0.01	9.00	17.00	20	N.A.	N.A.		
Site @Finished Grade	Illuminance	Fc	1.69	8.9	0.0	N.A.	N.A.	10	10	0		
Object Summary												
Label	Type	Description										
Building 1	Polygon-Flat	Assumed Reflectance: .3										
Building 2	Polygon-Flat	Assumed Reflectance: .3										
Building 3	Polygon-Flat	Assumed Reflectance: .3										



PHOTOMETRIC ANALYSIS



PRELIMINARY
FOR INTERIM USE ONLY
NOT FOR BIDDING
PERMITTING OR CONSTRUCTION

DONALD F. SOPRANZI A.I.A. # 8069

A-5
OF 6 SHEETS

SEPTEMBER 27, 2017