



**SUMMARY OF PROPOSED LIGHTING DESIGN ELEMENTS
DANA POINT HARBOR REVITALIZATION
MARCH 8, 2013**

ROADWAY AND PARKING – ZONES 1 + 1A

1. Tall poles lights (18' – 20') will be adjacent to the Golden Lantern roadway entry to the Harbor facilities. Light levels are in the medium range (3 – 8 footcandles) on the roadway grade. Pole lights will incorporate cutoff shielding to minimize glare from the Harbor area for the surrounding area residential neighborhoods.
2. Bollards will be located in the planters to illuminate Golden Lantern as the street ramps down to Level One Parking. Light levels will be in the medium range (3 – 8 footcandles) on the roadway grade. Bollards will incorporate cutoff shielding to minimize glare for the guests driving in and for the surrounding area residential neighborhoods.
3. Medium pole lights (14' – 16') will be spaced evenly in the surface parking areas. Light levels are in the medium range (3 – 8 footcandles) on the parking lot grade. In the north parking lot, pole lights will be incorporated into the tree planters. In the parking lot for the Marina, pole lights will be mounted on concrete pylons for safety and longevity of the poles themselves. Pole lights in both parking lots will incorporate cutoff shielding to minimize glare from the Harbor area for the surrounding area residential neighborhoods.
4. In the covered parking structure, surface mounted fixtures on the facility ceiling will incorporate cutoff shielding to minimize glare for the guests driving in. Light levels will be in the medium range (3 – 8 footcandles) on the parking lot grade.

CURBSIDE – ZONE 2

1. Low level bollards will be installed at the curbside drop off areas on both Level 1 and 2 as well as at the crosswalk on Level 1. Bollards will incorporate cutoff shielding to minimize glare. Light levels will be in the high range (5 – 8 footcandles) to augment ambient light for the safety of pedestrians.

WALKWAYS – ZONES 3 + 3A PLAZA LEVEL 1 and ZONE 4 PLAZA LEVEL 2

1. Low pole lights (12') will be spaced evenly throughout the open plaza walkways both on Level 1 and Level 2. Light levels will be in the medium range (3 – 5 footcandles). These poles may also incorporate banner arms that can be seasonally changed to reflect activities and programs at the Harbor. Pole lights will incorporate cutoff shielding to minimize glare for the surrounding area residential neighborhoods.
2. In locations where placing a pole light is too obtrusive, low-level bollards will be used. Light levels will be in the medium range (3 – 5 footcandles). Bollards will incorporate cutoff shielding to minimize glare.
3. Building façade lighting will also augment the open plaza walkway lighting and give a greater sense of place to the Harbor facilities at night. The facades can incorporate sconces and wall or roof mounted lighting that blends stylistically with the architecture of the retail and restaurant buildings. Light levels will be in the medium range (3 – 5 footcandles).

NARROW WALKWAYS AND DINING PATIOS – ZONES 5 +5A

1. On Level 2 in the narrow walkways and exterior dining patios, lighting can be incorporated into the balcony railing. Light levels will be in the low range (1 – 2 footcandles). Options include step lights incorporated into the railing pillars or railing curb to create enough ambient light for guest safety and comfort. This low level, shielded lighting also minimizes glare for those dining on adjacent patios.
2. Banner poles can be incorporated to the tops of railing pillars with seasonally changeable banners. Lighting can be mounted to subtly light only the banners and not glare on to the guest walking area. This will also create ambient light and atmosphere for the Level 2 walkways adjacent to dining patios.
3. Other decorative post top fixtures can be incorporated to the tops of railing pillars as well. These could be alternated with the Banner poles if desired.
4. Covered dining patios can be lit in part from façade decorative lighting as well as from decorative pendants hung from patio shade structures. These pendants should be in the style to blend with the restaurant décor.

STAIRWAYS – ZONE 6

1. Stairways and steps will be illuminated by small fixtures in step risers or on adjacent walls by recessed steplights. Light levels will be in the medium range (3 – 5 footcandles). Recessed fixtures will incorporate shielding to minimize glare. Stairways should always maintain a minimum of 1 footcandle for emergency egress lighting.

HARBOR EDGE – ZONE 7

1. As the existing railing remains for the revitalization of the Harbor restaurants and retail area, lighting this walkway must blend with the existing railing. Low level, shielded source bollards can be aligned with the existing railing pillars to illuminate the walkway grade. Alternatively, an augmented pillar with an incorporated step light can also be aligned with the existing railing pillars to create a rhythmic and consistent light. Light levels will be in the low range (1 – 2 footcandles).

LANDSCAPE – ZONE 8

1. Where appropriate with full canopy trees, shielded uplights from grade will illuminate the planting. Light levels will be in the low to medium range.
2. Tall palms will have tree rings with shielded accent lights to illuminate down on plaza walkways and lawns that may require more lighting for guests comfort and safety. Where appropriate, ingrade or pedestal mounted uplights will be used to illuminate palm trees. Light levels will be in the low to medium range.
3. Low level bollards will be used to accent planters with shorter level planting. Bollards will incorporate shielding to minimize glare. Light levels will be in the low to medium range.

FESTIVAL PLAZA – ZONE 9

1. Built into the concrete seat wall will be recessed step lighting. Light levels will be in the medium to low range (1 – 5 footcandles). These steplights can incorporate shielding to minimize glare but give sufficient light for guest to safely navigate the lawn areas during nighttime hours.

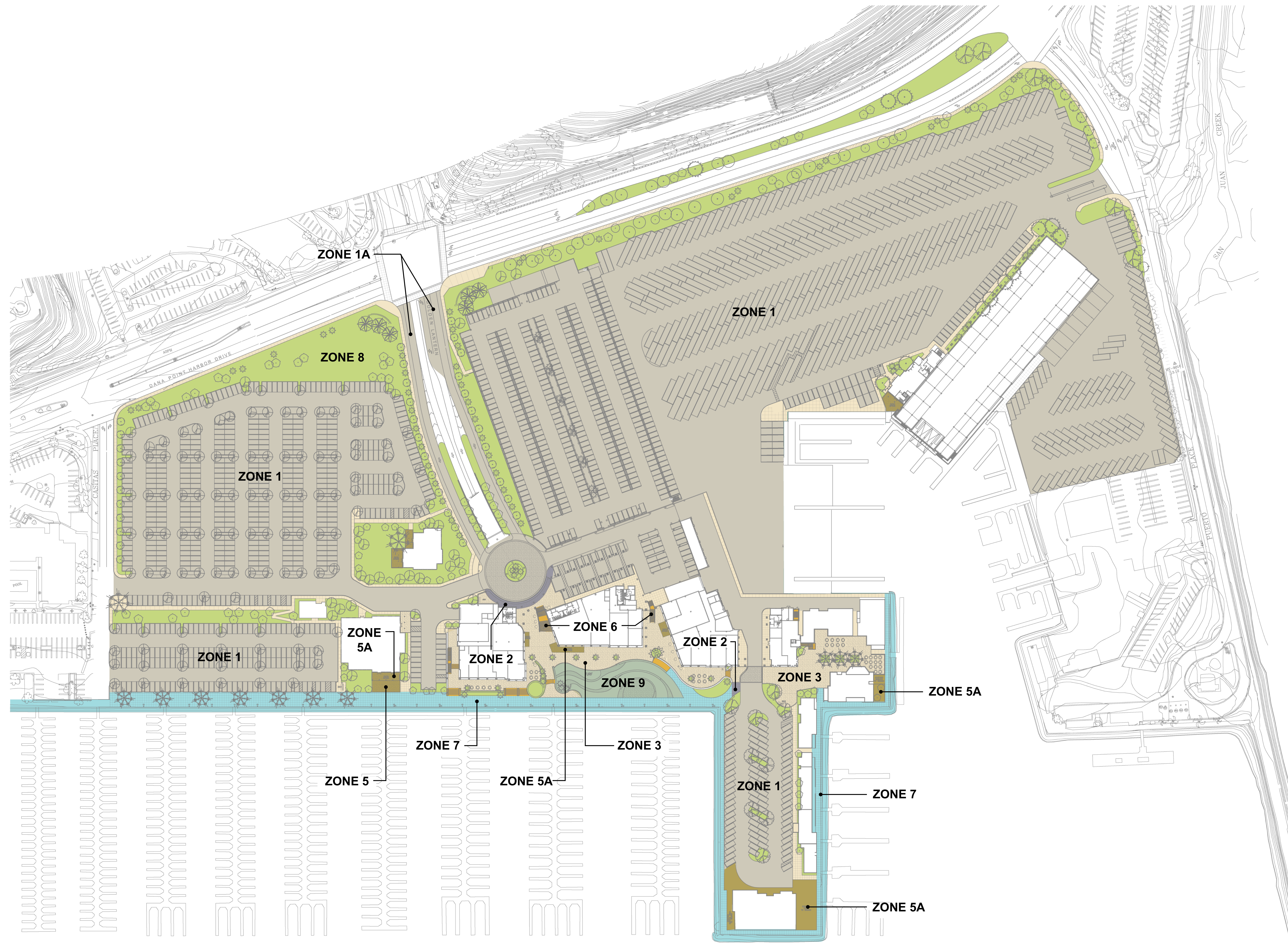
2. Pole lighting with spotlights will be used to illuminate the performance area. These can be located in the seat wall area. The spot lights will incorporate snoots and shielding to minimize glare into the boat slip area. Light levels will be in the medium range (3 – 5 footcandles) when these lights are used for evening performances.
3. Low level bollards will be used to accent walkways and planting in the Festival Plaza. Bollards will incorporate shielding to minimize glare. Light levels will be in the low to medium range.

OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



2 Executive Circle, Suite 200
 Irvine, California 92614
 (949) 253-3439
 (949) 253-0181 fax
 www.ruzika.com
 LIGHTING DESIGNERS + THEATRE CONSULTANTS



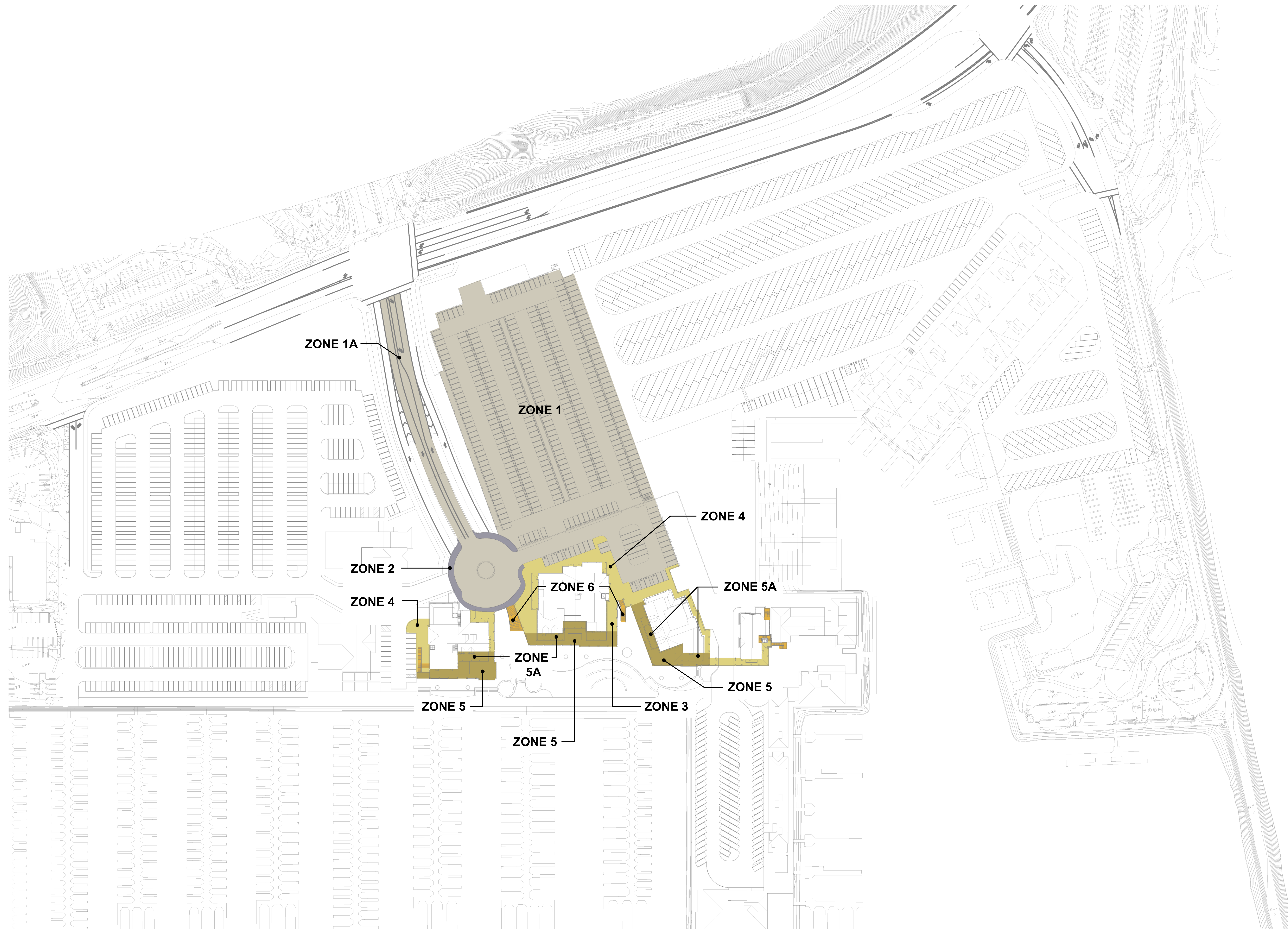
LIGHTING ZONE SCHEDULE

COLOR	ZONE	LIGHTING INTENSITY	POSSIBLE LIGHTING SOURCE	POTENTIAL POLE HEIGHTS	NOTES
	ZONE 1 + 1A - ZONE 1 - ROADWAYS, SURFACE PARKING, PARKING STRUCTURE ZONE 1A - GOLDEN LANTERN	MEDIUM (3 - 8 FC)	POLES, OVERHEAD RECESSED OR SURFACE MOUNTED FIXTURES	ZONE 1 (GOLDEN LANTERN): 18' - 20' ZONE 1A (SURFACE PARKING): 14' - 16'	ROADWAY: POLE LIGHTS WITH CUTOFF SHIELDING. PARKING STRUCTURE: SURFACE MOUNTED FIXTURES ON CEILING WITH CUTOFF SHIELDING.
	ZONE 2 - CURBSIDE	HIGH (5 - 8 FC)	LOW LEVEL BOLLARDS		AT DROP-OFF CURBS FOR SAFETY AND PEDESTRIAN PROTECTION. SHIELDED LIGHT SOURCE.
	ZONE 3 + 3A - OPEN WALKWAYS, PLAZA LEVEL 1, DOCKS	MEDIUM (3 - 5 FC)	LOW LEVEL BOLLARDS, LOW POLES, PATHWAY, BUILDING FACADES	WALKWAYS 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.
	ZONE 4 - OPEN WALKWAYS, PLAZA LEVEL 2	MEDIUM (3 - 5 FC)	LOW LEVEL BOLLARDS, LOW POLES, PATHWAY, BUILDING FACADES	WALKWAYS 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.
	ZONE 5 + 5A - ZONE 5 - NARROW WALKWAYS, OUTDOOR DINING ZONE 5A - COVERED PATIOS	LOW (1 - 2 FC)	LOW STEPLIGHT, BOLLARD INTEGRATED INTO RAILING PILLARS, LIT RAILING, UPLIGHT BETWEEN VERTICAL RAILS		OPTIONS: RAILING PILLARS WITH BANNER POLES, POST TOP FIXTURES, BANNER POLES WITHOUT LIGHTING HEADS, ILLUMINATED RAILING
	ZONE 6 - STAIRWAYS	MEDIUM (3 - 5 FC)	STEPLIGHTS IN RISERS, ADJACENT WALL MOUNTED LIGHTS, ILLUMINATED HAND RAILS		MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.
	ZONE 7 - HARBOR EDGE	LOW (1 - 3 FC)	LOW LEVEL BOLLARDS IN FRONT OF EXISTING RAILING		MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.
	ZONE 8 - LANDSCAPE	MEDIUM - LOW (N/A)	LANDSCAPE UPLIGHT ACCENTS, TREE RINGS ON PALMS, LOW LEVEL LANDSCAPE LIGHTS		ALL FIXTURES SHIELDED FOR GLARE REDUCTION.
	ZONE 9 - FESTIVAL PLAZA	MEDIUM - LOW (1 - 5 FC)	POLES, STEPLIGHTS, LOW LEVEL PATHWAY LIGHTS	AREA LIGHT POLES 12' - 14' PERFORMANCE LIGHTING POLES (IF REQUIRED) 14' - 16'	TREE RINGS CAN HAVE UPLIGHT FOR PALM FRONDS AND DOWNLIGHTING COMPONENTS FOR PLAZA AREAS.

DATE: March 1, 2013
 PROJECT #:
 SCALE: 1/64" = 1'-0"

NORTH
 SHEET #:

LEVEL ONE
 LIGHTING
 ZONES
 DIAGRAM



OC DANA POINT HARBOR REVITALIZATION

COUNTY OF ORANGE
 DANA POINT HARBOR DRIVE
 DANA POINT, CALIFORNIA



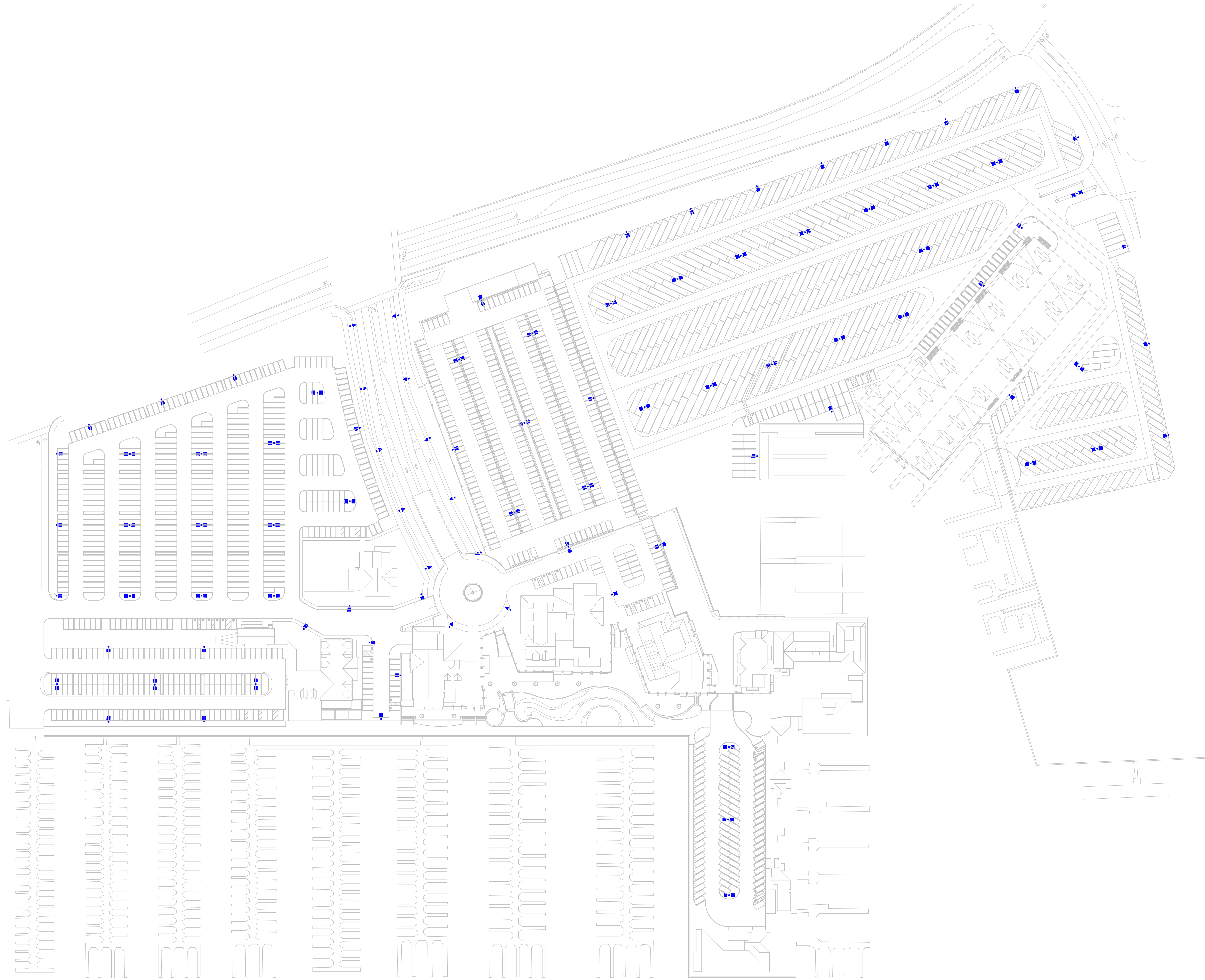
DATE: March 1, 2013
 PROJECT #:
 SCALE: 1/64" = 1'-0"

NORTH
 SHEET #:

LEVEL TWO
 LIGHTING
 ZONES
 DIAGRAM

LIGHTING ZONE SCHEDULE

COLOR	ZONE	LIGHTING INTENSITY	POSSIBLE LIGHTING SOURCE	POTENTIAL POLE HEIGHTS	NOTES
	ZONE 1 + 1A - ZONE 1 - ROADWAYS, SURFACE PARKING, PARKING STRUCTURE ZONE 1A - GOLDEN LANTERN	MEDIUM (3 - 8 FC)	POLES, OVERHEAD RECESSED OR SURFACE MOUNTED FIXTURES	ZONE 1 (GOLDEN LANTERN): 18' - 20' ZONE 1A (SURFACE PARKING): 14' - 16'	ROADWAY: POLE LIGHTS WITH CUTOFF SHIELDING. PARKING STRUCTURE: SURFACE MOUNTED FIXTURES ON CEILING WITH CUTOFF SHIELDING.
	ZONE 2 - CURBSIDE	HIGH (5 - 8 FC)	LOW LEVEL BOLLARDS		AT DROP-OFF CURBS FOR SAFETY AND PEDESTRIAN PROTECTION. SHIELDED LIGHT SOURCE.
	ZONE 3 + 3A - OPEN WALKWAYS, PLAZA LEVEL 1, DOCKS	MEDIUM (3 - 5 FC)	LOW LEVEL BOLLARDS, LOW POLES, PATHWAY, BUILDING FACADES	WALKWAYS 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.
	ZONE 4 - OPEN WALKWAYS, PLAZA LEVEL 2	MEDIUM (3 - 5 FC)	LOW LEVEL BOLLARDS, LOW POLES, PATHWAY, BUILDING FACADES	WALKWAYS 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.
	ZONE 5 + 5A - ZONE 5 - NARROW WALKWAYS, OUTDOOR DINING ZONE 5A - COVERED PATIOS	LOW (1 - 2 FC)	LOW STEPLIGHT, BOLLARD INTEGRATED INTO RAILING PILLARS, LIT RAILING, UPLIGHT BETWEEN VERTICAL RAILS		OPTIONS: RAILING PILLARS WITH BANNER POLES, POST TOP FIXTURES, BANNER POLES WITHOUT LIGHTING HEADS, ILLUMINATED RAILING
	ZONE 6 - STAIRWAYS	MEDIUM (3 - 5 FC)	STEPLIGHTS IN RISERS, ADJACENT WALL MOUNTED LIGHTS, ILLUMINATED HAND RAILS		MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.
	ZONE 7 - HARBOR EDGE	LOW (1 - 3 FC)	LOW LEVEL BOLLARDS IN FRONT OF EXISTING RAILING		MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.
	ZONE 8 - LANDSCAPE	MEDIUM - LOW (N/A)	LANDSCAPE UPLIGHT ACCENTS, TREE RINGS ON PALMS, LOW LEVEL LANDSCAPE LIGHTS		ALL FIXTURES SHIELDED FOR GLARE REDUCTION.
	ZONE 9 - FESTIVAL PLAZA	MEDIUM - LOW (1 - 5 FC)	POLES, STEPLIGHTS, LOW LEVEL PATHWAY LIGHTS	AREA LIGHT POLES 12' - 14' PERFORMANCE LIGHTING POLES (IF REQUIRED) 14' - 16'	TREE RINGS CAN HAVE UPLIGHT FOR PALM FRONDS AND DOWNLIGHTING COMPONENTS FOR PLAZA AREAS.



**DANA POINT HARBOR REVITALIZATION
COMMERCIAL CORE PROJECT**

COUNTY OF ORANGE
DANA POINT HARBOR DRIVE
DANA POINT, CALIFORNIA

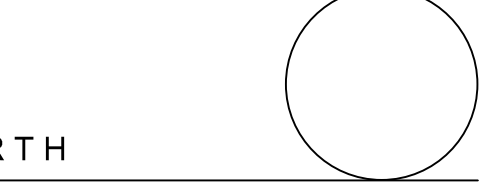


DATE: 12-20-13

PROJECT #: 2011-40140

SCALE:

0



NORTH

SHEET #: E-6.02

**SITE
PARKING
LOT
LIGHTING**



LIGHTING ZONE 1 +1A FIXTURE OPTIONS

ZONE	INTENSITY	POTENTIAL POLE HEIGHTS	NOTES
ZONE 1 - ROADWAYS, SURFACE PARKING, PARKING STRUCTURE	MEDIUM (3-5 FC)	ZONE 1 (GOLDEN LANTERN): 18' - 20'	ROADWAY: POLE LIGHTS WITH CUTOFF SHIELDING.
ZONE 1A - GOLDEN LANTERN		ZONE 1A (SURFACE PARKING): 14' - 16'	PARKING STRUCTURE: SURFACE MOUNTED FIXTURES ON CEILING WITH CUTOFF SHIELDING.



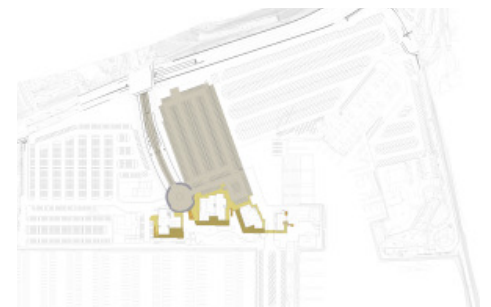
TWO HEAD AREA LIGHTING POLE



SURFACE MOUNTED PARKING STRUCTURE FIXTURE



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 2 FIXTURE OPTIONS

ZONE	INTENSITY	NOTES
ZONE 2 - CURBSIDE	HIGH (5-8 FC)	AT DROP-OFF CURBS FOR SAFETY AND PEDESTRIAN PROTECTION. SHIELDED LIGHT SOURCE.

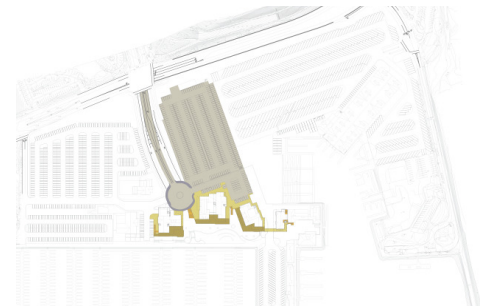


LOW LEVEL BOLLARDS

DOUBLE HEAD AREA LIGHTING POLE



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 3 +3A FIXTURE OPTIONS

ZONE	INTENSITY	POTENTIAL POLE HEIGHTS	NOTES
ZONE 3 + 3A - OPEN WALKWAYS, PLAZA LEVEL 1, DOCKS	MEDIUM (3-5 FC)	WALKWAYS: 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.



BUILDING FACADE SCONCES

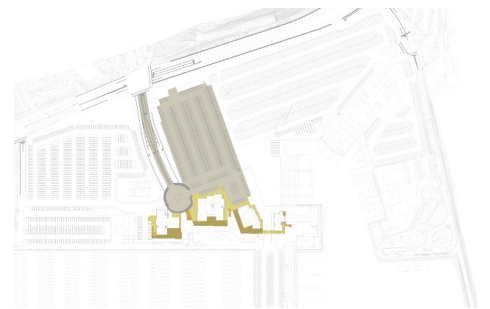


LOW LEVEL BOLLARDS

DOUBLE HEAD AREA LIGHTING POLE



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 4 FIXTURE OPTIONS

ZONE	INTENSITY	POTENTIAL POLE HEIGHTS	NOTES
ZONE 4 - OPEN WALKWAYS, PLAZA LEVEL 2	MEDIUM (3-5 FC)	WALKWAYS: 12'	SHIELDED LIGHT SOURCES WHERE POSSIBLE.



BUILDING FACADE SCONCES

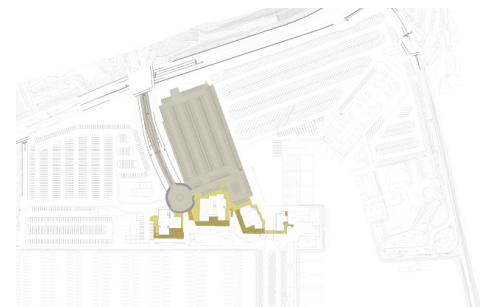


LOW LEVEL BOLLARDS

DOUBLE HEAD AREA LIGHTING POLE



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 5 + 5A FIXTURE OPTIONS

ZONE	INTENSITY	NOTES
ZONE 5 - NARROW WALKWAYS, OUTDOOR DINING	LOW (1-2 FC)	OPTIONS: RAILING PILLARS WITH BANNER POLES, POST TOP FIXTURES, BANNER POLES WITHOUT LIGHTING HEADS, ILLUMINATED RAILING
ZONE 5A - COVERED PATIOS		



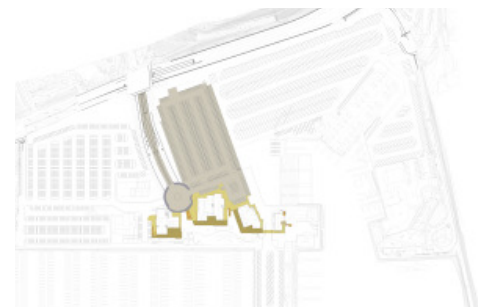
BANNER LIGHTS



LOW WALL MOUNTED STEPLIGHTS



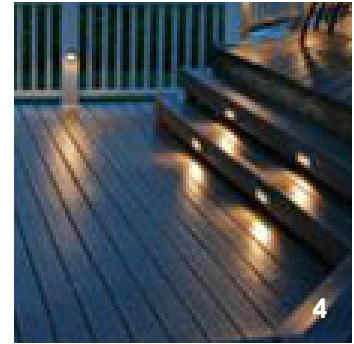
LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM

LIGHTING ZONE 6 FIXTURE OPTIONS

ZONE	INTENSITY	NOTES
ZONE 6 - STAIRWAYS	MEDIUM (3-5 FC)	MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.



LOW LEVEL PATHWAY LIGHTS

LOW STEPLIGHTS IN RISERS

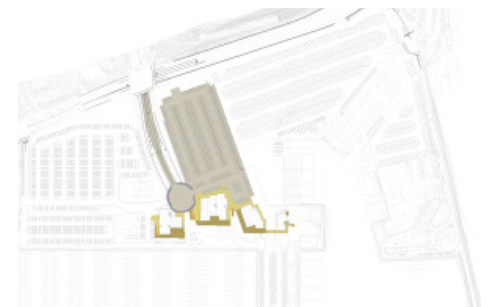


LOW WALL MOUNTED STEPLIGHTS

ILLUMINATED HANDRAILS



LEVEL ONE LIGHTING ZONE DIAGRAM

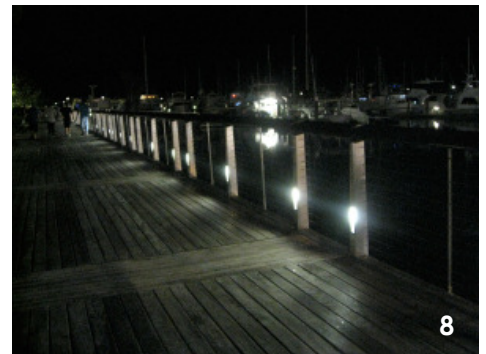
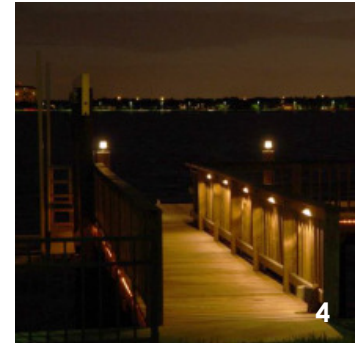


LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 7 FIXTURE OPTIONS

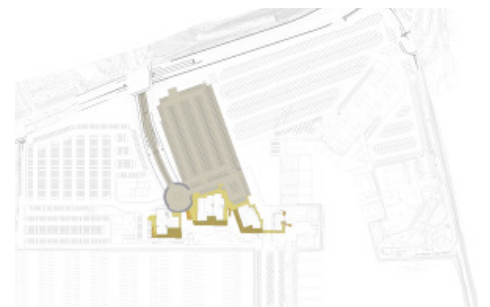
ZONE	INTENSITY	NOTES
ZONE 7 - HARBOR EDGE	LOW (1-3 FC)	MINIMUM OF 1 FOOTCANDLE FOR EMERGENCY EGRESS LIGHTING.



LOW BOLLARDS IN FRONT OF EXISTING RAILING



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM

LIGHTING ZONE 8 FIXTURE OPTIONS

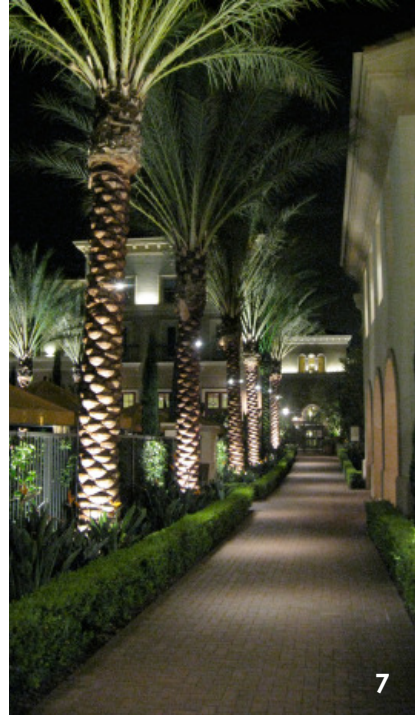
ZONE	INTENSITY	NOTES
ZONE 8 - LANDSCAPE	MED - LOW	ALL FIXTURES SHIELDED FOR GLARE REDUCTION.



LOW LEVEL PATHWAY LIGHTS



TREE RING ON PALMS



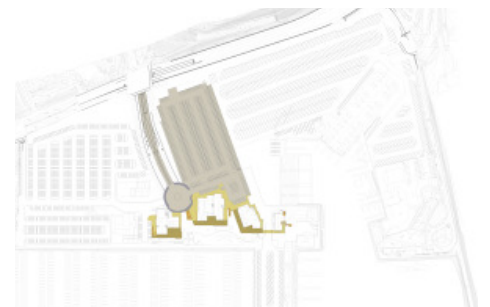
LANDSCAPE UPLIGHT ACCENTS



LANDSCAPE UPLIGHT ACCENTS



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM



LIGHTING ZONE 9 FIXTURE OPTIONS

ZONE	INTENSITY	POTENTIAL POLE HEIGHTS	NOTES
ZONE 9 - FESTIVAL PLAZA	MEDIUM (3-5 FC)	AREA LIGHT POLES: 12' - 14' PERFORMANCE LIGHTING POLES (IF REQUIRED): 14' - 16'	TREE RINGS CAN HAVE UPLIGHT FOR PALM FRONDS AND DOWNLIGHTING COMPONENTS FOR PLAZA AREAS.



POLE MOUNTED LIGHTS



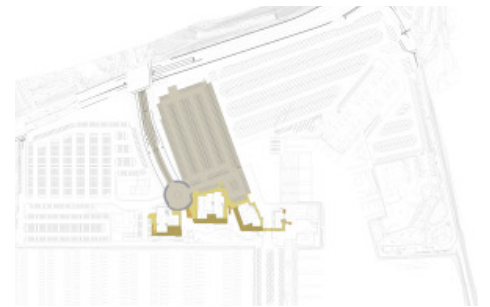
LOW LEVEL PATHWAY LIGHTS



SINGLE HEAD AREA LIGHTING POLE



LEVEL ONE LIGHTING ZONE DIAGRAM



LEVEL TWO LIGHTING ZONE DIAGRAM

