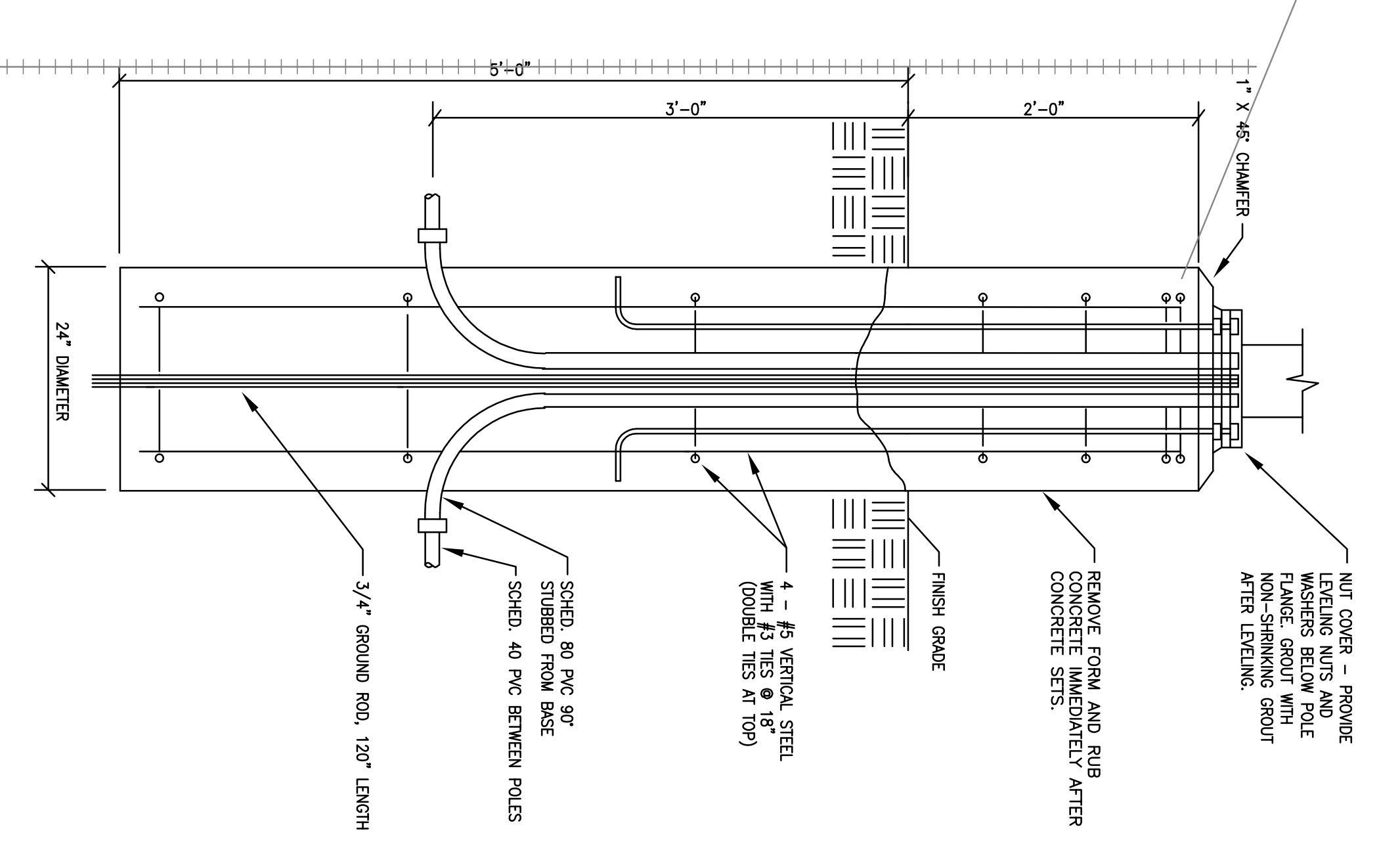
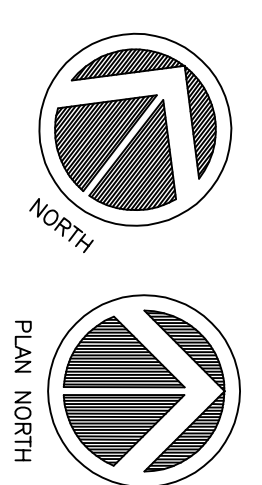


**2**  
POLE BASE DETAIL  
SCALE NOT TO SCALE



**1**  
ELECTRICAL SITE PLAN  
SCALE: 1" = 40'-0"



PROJECT #:	20070080
SHEET NUMBER:	E100
ISSUE DATES:	
REVISION DATE:	

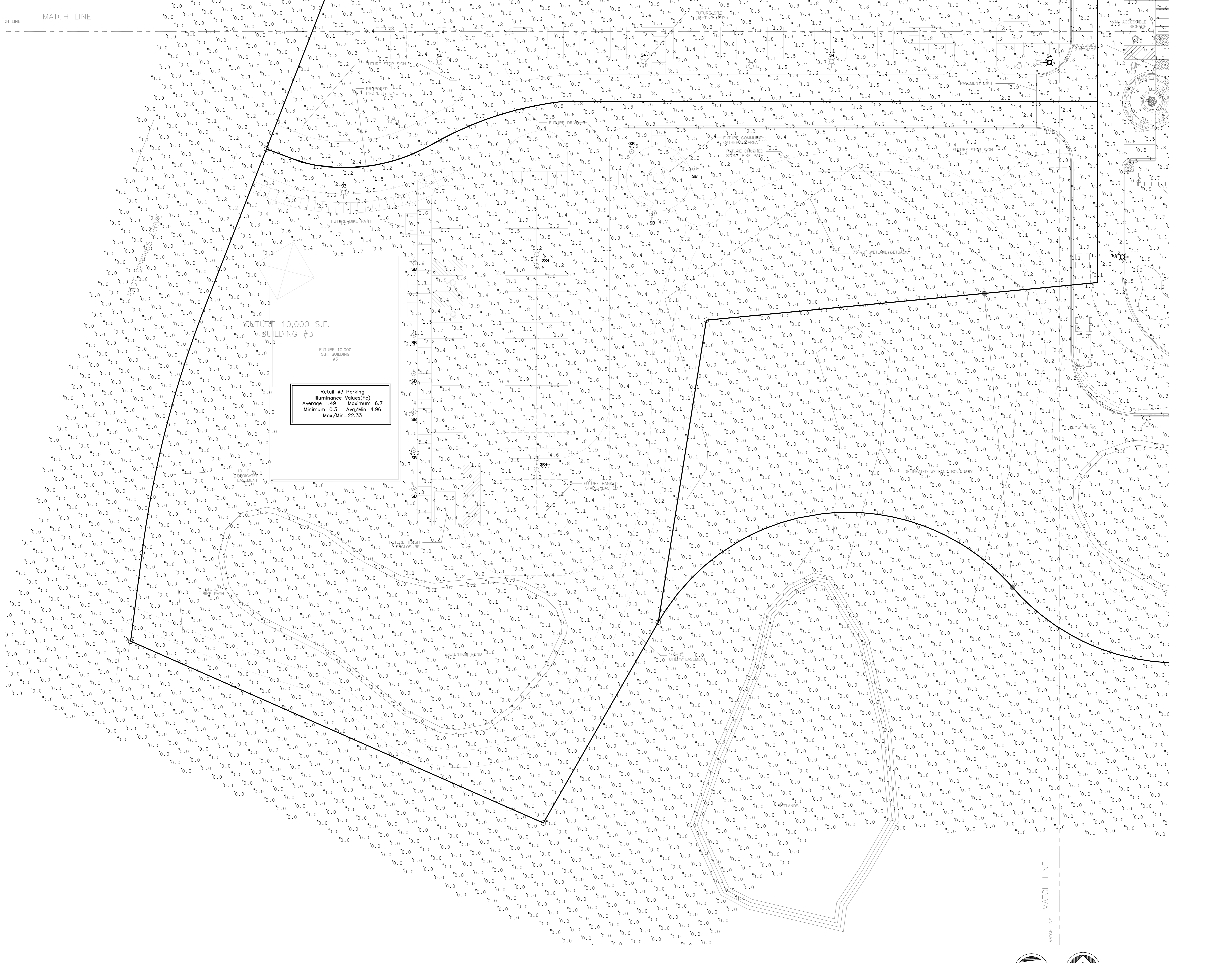
**STEINHAFELS FURNITURE STORE**  
EAST SPRINGS DRIVE  
MADISON, WI

**MADISON EAST STORE, LLC**  
W231 N1013 CNTY HWY F  
WAUKESHA, WI 53186-1502

**ICONICA**  
True Design Build  
301 Dearing Way // Madison, WI 53717  
Ph: 608.664.3300 // Fax: 608.664.3305  
iconicadesign.com

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**Schematic Design Phase:**  
This drawing indicates the scale and relationship of the project components. This drawing is not for construction.



Retail #3 Parking  
 Illuminance Values (Fc)  
 Average=1.49 Maximum=6.7  
 Minimum=0.3 Avg/Min=4.96  
 Max/Min=22.33

**STEINHAFELS FURNITURE STORE**  
 EAST SPRINGS DRIVE  
 MADISON, WI

MADISON EAST STORE, LLC  
 W231 N1015 CNTY HWY F  
 WAUKESHA, WI 53186-1502

**ISSUE DATES:**  
 \_\_\_\_\_

**RFI/SI DATES:**  
 \_\_\_\_\_

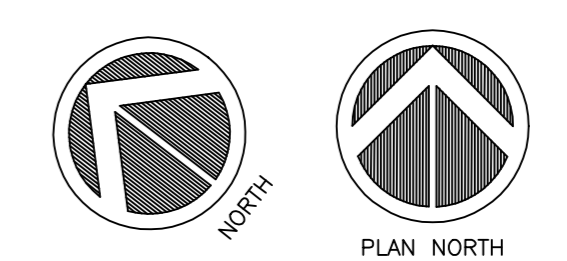
**Schematic Design Phase:**  
 This drawing indicates the scale and relationship of the project components. This drawing is not for construction.

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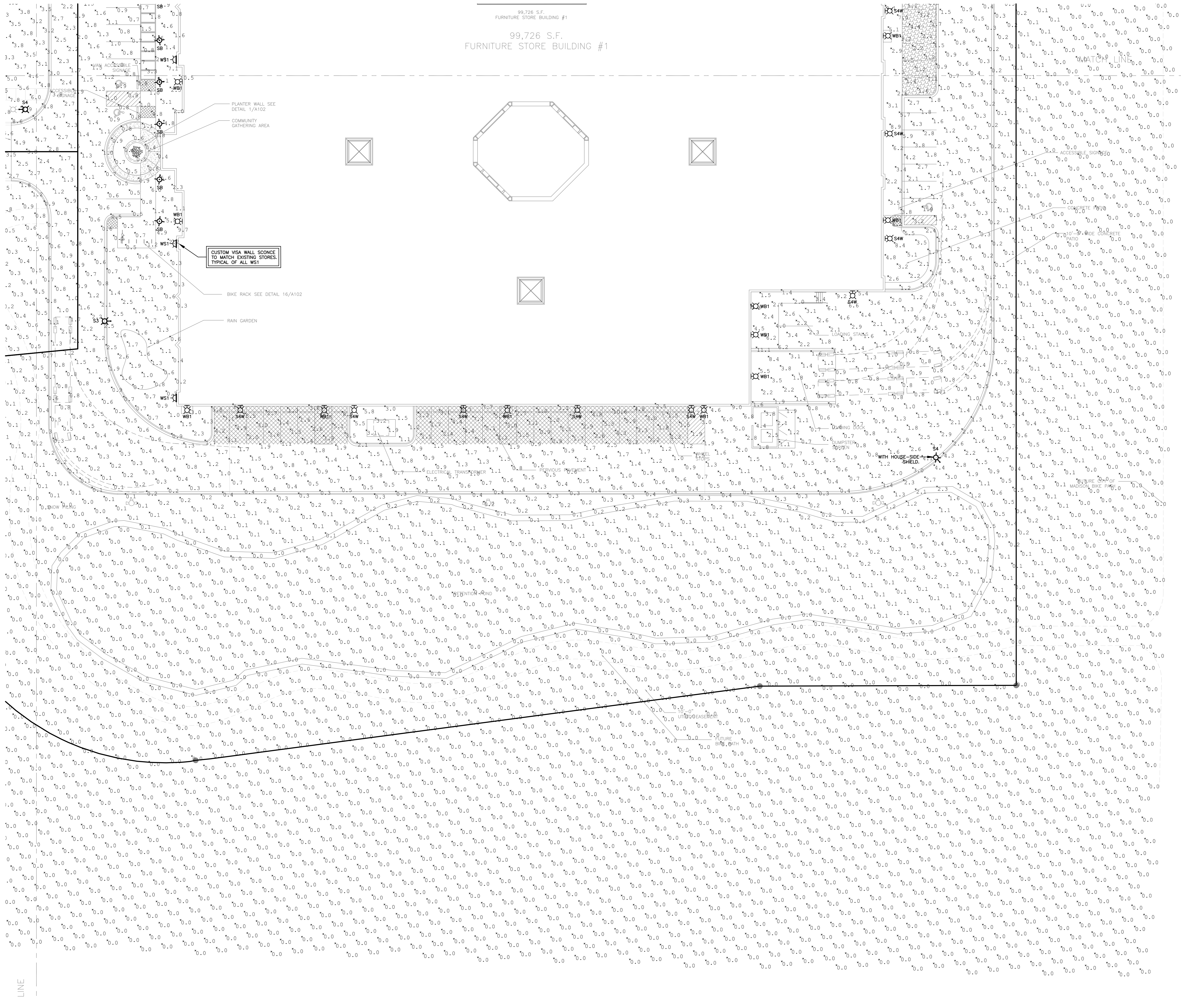
**PROJECT #:** 20070080  
**SHEET NUMBER**  
**E100.3**

©2008 Iconica, Inc.

**1** PARTIAL ELECTRICAL SITE PLAN  
 SCALE: 1/8" = 1'-0"

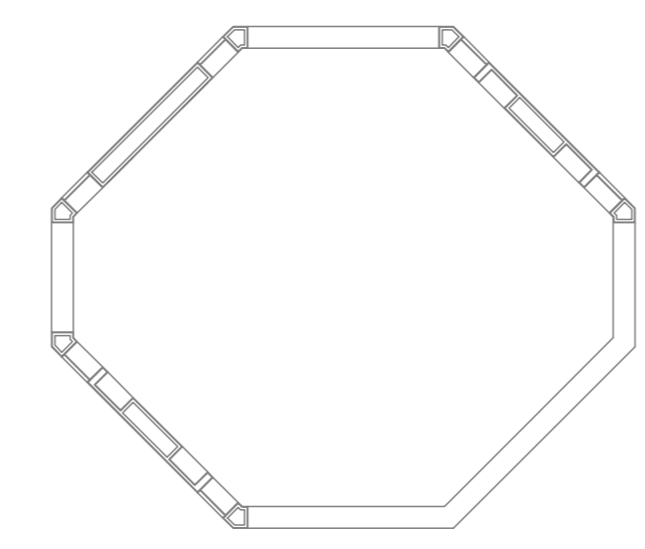






99,726 S.F.  
FURNITURE STORE BUILDING #1

99,726 S.F.  
FURNITURE STORE BUILDING #1



CUSTOM VISA WALL SCHEDULE TO MATCH EXISTING STORES. TYPICAL OF ALL WS1

BIKE RACK SEE DETAIL 16/A102

RAIN GARDEN

PLANTER WALL SEE DETAIL 1/A102

COMMUNITY GATHERING AREA

ACCESSIBLE SIGNAGE

CONCRETE PAVEMENT

UTILITY-10" WIDE CONCRETE PAVEMENT

LOADING DOCK

WITH HOUSE-SIDE AS SHIELD

HOUSE SIDE AS SHIELD

PROPERTY CHANGING

CONCRETE PAVEMENT

CONCRETE PAVEMENT

CONCRETE PAVEMENT

CONCRETE PAVEMENT

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CONCRETE PAVEMENT

**ISSUE DATES:**


**RFI/SI DATES:**

**Schematic Design Phase:**

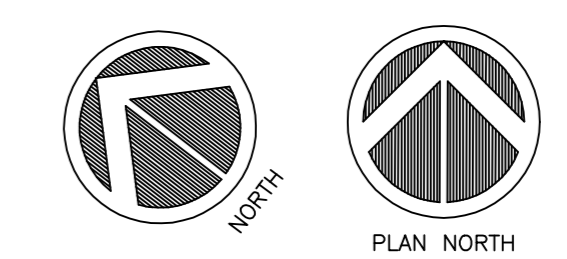
This drawing indicates the scale and relationship of the project components. This drawing is not for construction.

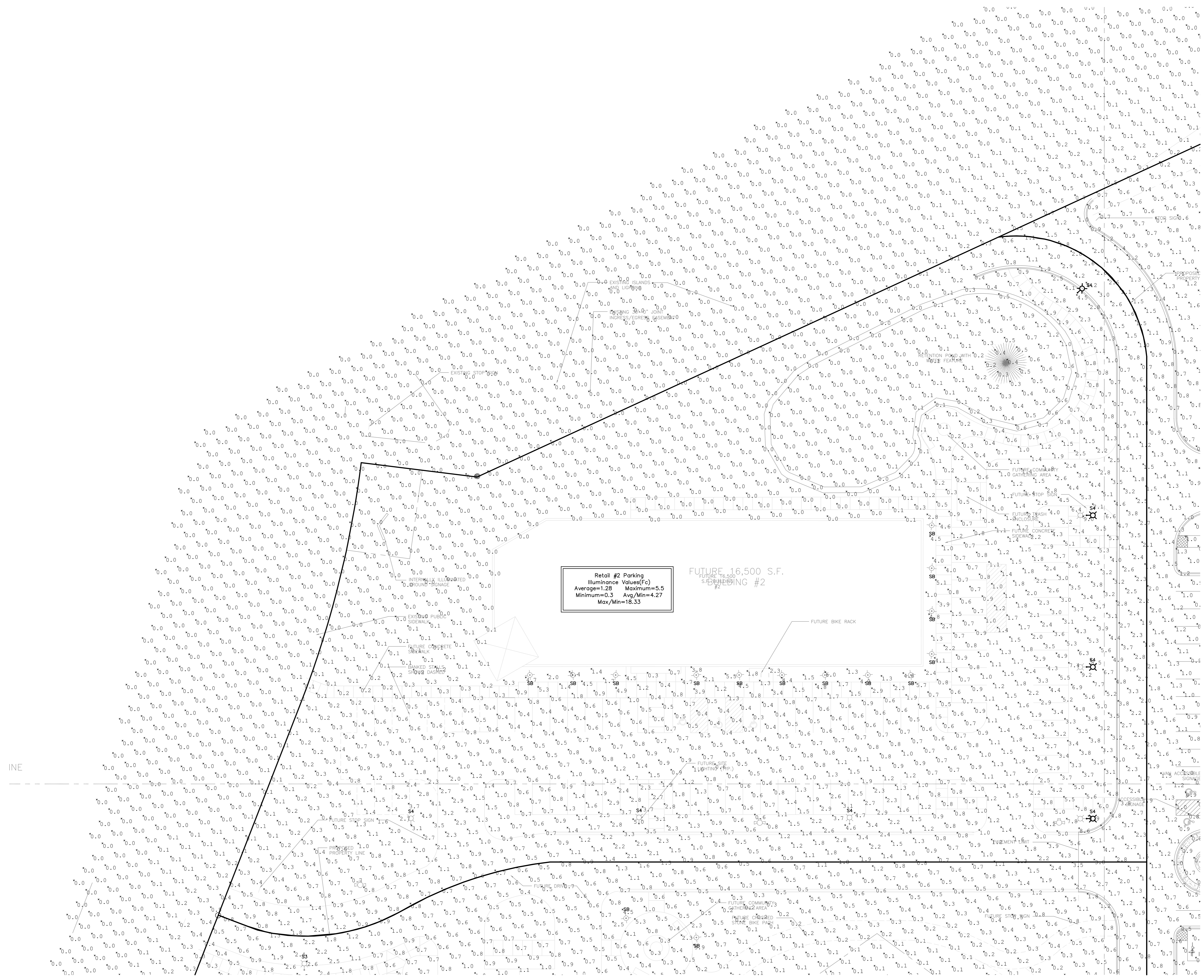
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**PROJECT #:** 20070080  
**SHEET NUMBER**  
**E100.1**

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**1 PARTIAL ELECTRICAL SITE PLAN**  
SCALE: 1/8" = 1'-0"





Retail #2 Parking  
Illuminance Values(Fc)  
Average=1.28 Maximum=5.5  
Minimum=0.3 Avg/Min=4.27  
Max/Min=18.33

FUTURE 16,500 S.F.  
BUILDING #2

ISSUE DATE:

NO.	DESCRIPTION	DATE

RFI/SUB DATE:

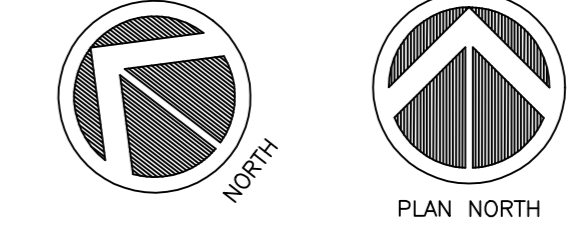
Schematic Design Phase:

This drawing indicates the scale and relationship of the project components. This drawing is not for construction.

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PROJECT #: 20070080  
SHEET NUMBER

E100.4



PLOT DATE: 03/19/2008  
F:\20070080 - Steinhafels - Madison - East Springs Drive\20070080-E100.4.dwg - J:\19-2008-131329.dwg

**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

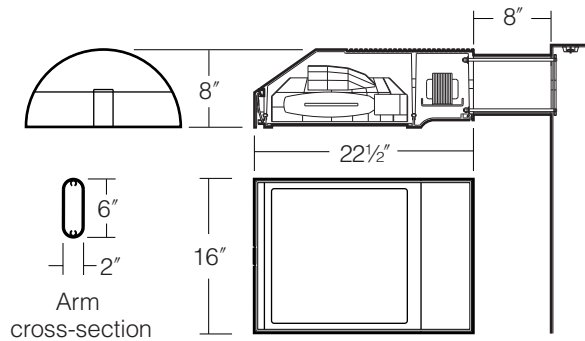
/	/	/	/	/
Mtg.	Fixture	Electrical Module	Finish	Options
See page 2				Optional Vertical Slipfitter Mount See page 5

**Date:**  
**Page: 1 of 5**

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

150 to 400 watt  
Mogul Base Lamps  
Maximum Fixture weight (400HPS) = 45 lb



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Optional Wall Mounting:** Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	IP66 Rated	25C Ambient
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<sup>1</sup>Suitable for wet locations.

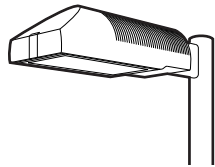
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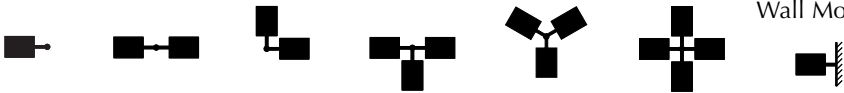

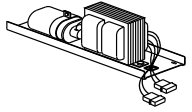
Type:

Job:

Page: 2 of 5



## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.2            2.4            2.0            3.2            3.2            3.9            n/a</p> <p>Cat. No.:    <input type="checkbox"/> 1A    <input type="checkbox"/> 2B    <input type="checkbox"/> 2L    <input type="checkbox"/> 3T    <input type="checkbox"/> 3Y    <input type="checkbox"/> 4C    <input type="checkbox"/> 1W</p>																																																																																										
<p><b>Fixture</b> Cat. No. designates fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Flat Lens</b></p>  <p>Light Distribution:    Type I            Type II            Type III            Type IV            Type V</p> <p>                                 Full Cutoff    Full Cutoff    Full Cutoff    Forward Throw Full Cutoff    Square Full Cutoff</p> <p>Cat. No.:            <input type="checkbox"/> AR1    <input type="checkbox"/> AR2    <input type="checkbox"/> AR3    <input type="checkbox"/> AR4    <input type="checkbox"/> AR5</p>																																																																																										
<p><b>Electrical Module</b> <b>HPS</b> = High Pressure Sodium <b>PMH</b> = Pulse Start Metal Halide</p>  <p>Lamp    Watts    Type    Line Volts</p> <p><b>400    HPS    277</b></p>	<p>Cat. Nos. for Electrical Modules available:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">High Pressure Sodium</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 150HPS120</td> <td><input type="checkbox"/> 250HPS120</td> <td><input type="checkbox"/> 400HPS120</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS208</td> <td><input type="checkbox"/> 250HPS208</td> <td><input type="checkbox"/> 400HPS208</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS240</td> <td><input type="checkbox"/> 250HPS240</td> <td><input type="checkbox"/> 400HPS240</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS277</td> <td><input type="checkbox"/> 250HPS277</td> <td><input type="checkbox"/> 400HPS277</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS347</td> <td><input type="checkbox"/> 250HPS347</td> <td><input type="checkbox"/> 400HPS347</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS480</td> <td><input type="checkbox"/> 250HPS480</td> <td><input type="checkbox"/> 400HPS480</td> <td></td> </tr> <tr> <td>Lamp</td> <td>E-23½, Clear</td> <td>E-18, Clear</td> <td>E-18, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>S-55</td> <td>S-50</td> <td>S-51</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th colspan="4">Pulse Start Metal Halide</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 250PMH120</td> <td><input type="checkbox"/> 320PMH120</td> <td><input type="checkbox"/> 350PMH120</td> <td><input type="checkbox"/> 400PMH120</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH208</td> <td><input type="checkbox"/> 320PMH208</td> <td><input type="checkbox"/> 350PMH208</td> <td><input type="checkbox"/> 400PMH208</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH240</td> <td><input type="checkbox"/> 320PMH240</td> <td><input type="checkbox"/> 350PMH240</td> <td><input type="checkbox"/> 400PMH240</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH277</td> <td><input type="checkbox"/> 320PMH277</td> <td><input type="checkbox"/> 350PMH277</td> <td><input type="checkbox"/> 400PMH277</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH347</td> <td><input type="checkbox"/> 320PMH347</td> <td><input type="checkbox"/> 350PMH347</td> <td><input type="checkbox"/> 400PMH347</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH480</td> <td><input type="checkbox"/> 320PMH480</td> <td><input type="checkbox"/> 350PMH480</td> <td><input type="checkbox"/> 400PMH480</td> <td></td> </tr> <tr> <td>Lamp</td> <td>ED-28, Clear</td> <td>BT-28, Clear</td> <td>BT-28, Clear</td> <td>ED-28, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>M-138</td> <td>M-132, M154, or M170</td> <td>M-131, M171</td> <td>M-135</td> </tr> </tbody> </table> <p><b>NOTE:</b> Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims. (Visit <a href="http://www.aboutlightingcontrols.org">www.aboutlightingcontrols.org</a> or the Library of Congress website for more details).</p>		High Pressure Sodium			<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 250HPS120	<input type="checkbox"/> 400HPS120		<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 250HPS208	<input type="checkbox"/> 400HPS208		<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 250HPS240	<input type="checkbox"/> 400HPS240		<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 250HPS277	<input type="checkbox"/> 400HPS277		<input type="checkbox"/> 150HPS347	<input type="checkbox"/> 250HPS347	<input type="checkbox"/> 400HPS347		<input type="checkbox"/> 150HPS480	<input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS480		Lamp	E-23½, Clear	E-18, Clear	E-18, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	S-55	S-50	S-51		Pulse Start Metal Halide				<input type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120	<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120		<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208	<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208		<input type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240	<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240		<input type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277	<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277		<input type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347	<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347		<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480	<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480		Lamp	ED-28, Clear	BT-28, Clear	BT-28, Clear	ED-28, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	M-138	M-132, M154, or M170	M-131, M171	M-135
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<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208	<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208																																																																																								
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<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480	<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480																																																																																								
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<p><b>Finish</b> Super TGIC powder coat paint over a titanated zirconium conversion coating.</p>	<p>Color:    Black    Dark Bronze    Light Gray    Stealth Gray®    Platinum Silver    White    Custom Color<sup>1</sup></p> <p>Cat. No.: <input type="checkbox"/> BL    <input type="checkbox"/> DB    <input type="checkbox"/> LG    <input type="checkbox"/> SG    <input type="checkbox"/> PS    <input type="checkbox"/> WH    <input type="checkbox"/> CC</p> <p><sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>																																																																																										

**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

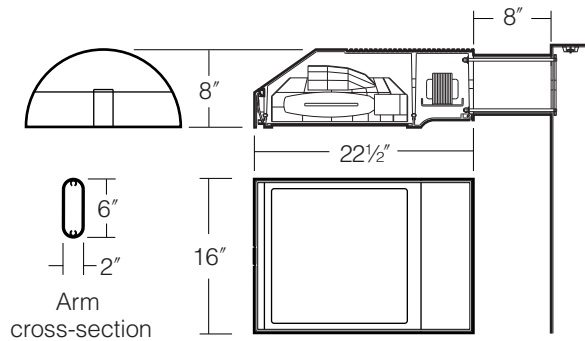
/	/	/	/	/
Mtg.	Fixture	Electrical Module	Finish	Options
See page 2				Optional Vertical Slipfitter Mount See page 5

**Date:**  
**Page: 1 of 5**

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

150 to 400 watt  
Mogul Base Lamps  
Maximum Fixture weight (400HPS) = 45 lb



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

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**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	IP66 Rated	25C Ambient
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<sup>1</sup>Suitable for wet locations.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

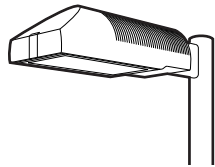




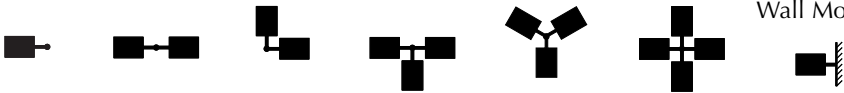

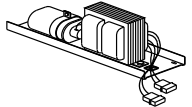
Type:

Job:

Page: 2 of 5



## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.2            2.4            2.0            3.2            3.2            3.9            n/a</p> <p>Cat. No.:    <input type="checkbox"/> 1A    <input type="checkbox"/> 2B    <input type="checkbox"/> 2L    <input type="checkbox"/> 3T    <input type="checkbox"/> 3Y    <input type="checkbox"/> 4C    <input type="checkbox"/> 1W</p>																																																																																			
<p><b>Fixture</b> Cat. No. designates fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Flat Lens</b></p>  <p>Light Distribution:    Type I            Type II            Type III            Type IV            Type V</p> <p>                                 Full Cutoff    Full Cutoff    Full Cutoff    Forward Throw Full Cutoff    Square Full Cutoff</p> <p>Cat. No.:            <input type="checkbox"/> AR1    <input type="checkbox"/> AR2    <input type="checkbox"/> AR3    <input type="checkbox"/> AR4    <input type="checkbox"/> AR5</p>																																																																																			
<p><b>Electrical Module</b> <b>HPS</b> = High Pressure Sodium <b>PMH</b> = Pulse Start Metal Halide</p>  <p>Lamp    Watts    Type    Line Volts</p> <p><b>400    HPS    277</b></p>	<p>Cat. 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**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

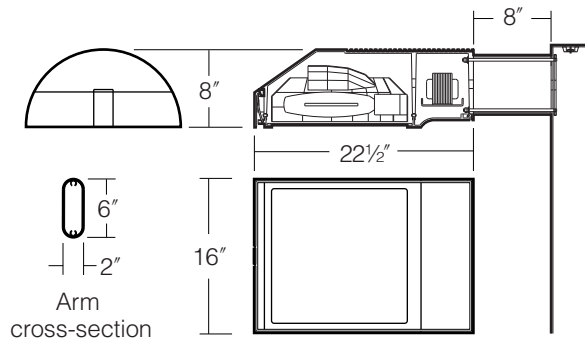
/	/	/	/	/
Mtg.	Fixture	Electrical Module	Finish	Options
See page 2				Optional Vertical Slipfitter Mount See page 5

**Date:**  
**Page: 1 of 5**

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

150 to 400 watt  
Mogul Base Lamps  
Maximum Fixture weight (400HPS) = 45 lb



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Optional Wall Mounting:** Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	IP66 Rated	25C Ambient
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<sup>1</sup>Suitable for wet locations.

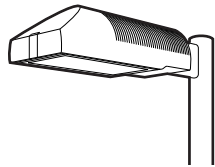
KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



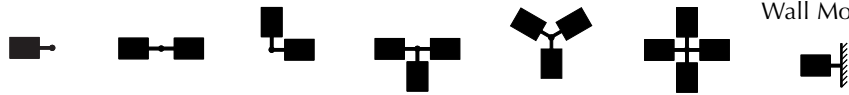

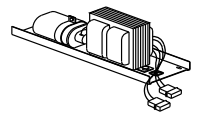
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Page: 2 of 5



## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.2            2.4            2.0            3.2            3.2            3.9            n/a</p> <p>Cat. No.:    <input type="checkbox"/> 1A            <input type="checkbox"/> 2B            <input type="checkbox"/> 2L            <input type="checkbox"/> 3T            <input type="checkbox"/> 3Y            <input type="checkbox"/> 4C            <input type="checkbox"/> 1W</p>																																																																																										
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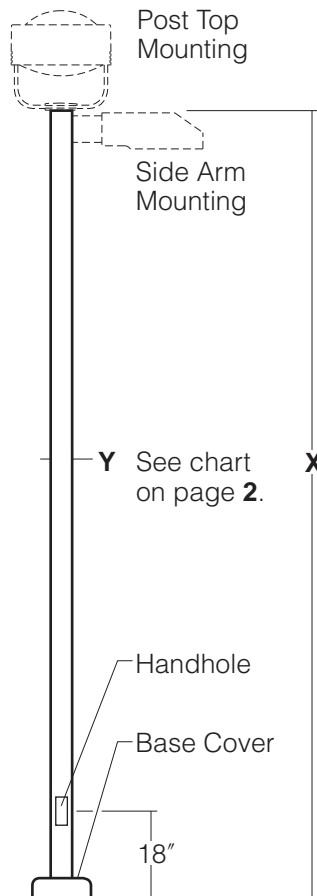
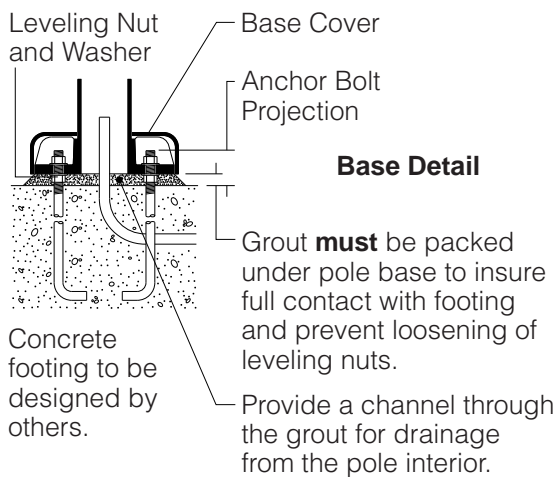
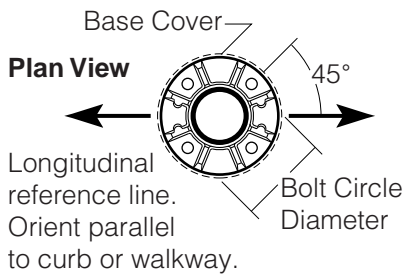
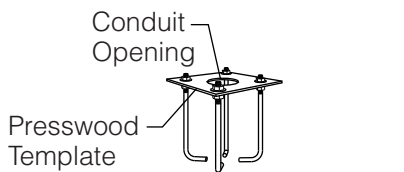
**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

	/	/	/	/	/
Pole	Mounting	Structural Luminaire Option	Finish	Optional Hinged Base	Optional Duplex Receptacle
See page 2	See page 3		See page 4		

**Date:**  
**Page: 1 of 5**

## Specifications



**Pole Construction:** Seamless round extruded aluminum tube of alloy 6063-T6, welded to top and bottom of aluminum base casting of alloy 356.

**Base Cover:** Base has a two-piece cast aluminum full cover of 319 alloy, secured by stainless steel screws.

**Pole Cap:** A flush-sided cast aluminum pole cap is provided for side arm mounted luminaires.

**Handhole:** 18" up from base, with a gasketed cover and ground lug. Poles with a 3<sup>3/8</sup>" O.D. include a handhole reinforcement casting welded in place.

**Anchor Bolts:** Four galvanized anchor bolts provided, complete with eight nuts, eight flat washers, and a presswood template.

**Vibration Dampener:** All poles 25' and above include an internally mounted, factory installed pendulum vibration dampener, with flush stainless steel socket head fasteners finished to match pole.

**Strength:** Poles will withstand wind loads as listed in chart (See page 2) when luminaires are mounted per fixture installation instructions.

**Finish:** Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, and White. Custom colors are available.

**CAUTION:** Installation of poles without luminaire(s) will compromise pole strength. Any accessories attached to pole, or other modifications will compromise pole strength and may result in pole failure.

**Maintenance:** A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.



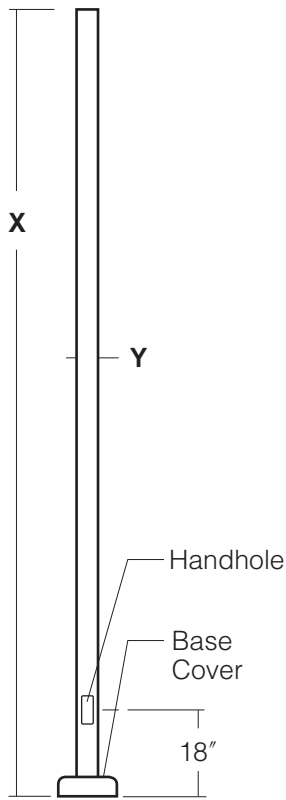
Type:

Job:

## Standard Features

**NOTE:** All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 4).

Pole Catalog Number	X	Y	Allowable Pole EPA								Wind Map
			85	90	100	110	120	130	140	150	Steady Wind
<input type="checkbox"/> PRA8-4125	8'	4" x .125	13.06	11.49	10.46	8.39	6.81	5.65	4.80	4.13	
<input type="checkbox"/> PRA8-5125	8'	5" x .125	21.29	18.79	17.15	14.05	11.72	9.92	8.49	7.34	
<input type="checkbox"/> PRA10-34125	10'	3 3/8" x .125	6.58	5.70	7.71	6.05	4.79	3.88	3.27	2.78	
<input type="checkbox"/> PRA10-4125	10'	4" x .125	9.78	8.53	9.09	7.01	5.42	4.30	3.58	3.01	
<input type="checkbox"/> PRA10-5125	10'	5" x .125	16.21	14.21	12.90	10.51	8.72	7.34	6.25	5.38	
<input type="checkbox"/> PRA12-34188	12'	3 3/8" x .188	8.76	7.62	6.86	5.35	4.20	3.30	2.59	2.03	
<input type="checkbox"/> PRA12-4125	12'	4" x .125	7.48	6.44	5.75	4.37	3.32	2.59	2.14	1.78	
<input type="checkbox"/> PRA12-5125	12'	5" x .125	12.67	11.00	9.91	8.01	6.60	5.51	4.66	3.99	
<input type="checkbox"/> PRA12-6188	12'	6" x .188	32.89	29.22	27.04	22.20	18.53	15.69	13.44	11.64	
<input type="checkbox"/> PRA14-34188	14'	3 3/8" x .188	6.94	5.95	5.31	4.01	3.02	2.26	1.65	1.17	
<input type="checkbox"/> PRA14-4125	14'	4" x .125	5.73	4.84	4.25	3.06	2.16	1.57	1.24	0.98	
<input type="checkbox"/> PRA14-4188	14'	4" x .188	10.56	9.14	8.21	6.34	4.92	3.91	3.26	2.74	
<input type="checkbox"/> PRA14-5125	14'	5" x .125	10.01	8.58	7.64	6.10	4.98	4.11	3.44	2.91	
<input type="checkbox"/> PRA14-5188	14'	5" x .188	17.90	15.62	14.12	11.46	9.48	7.95	6.75	5.79	
<input type="checkbox"/> PRA14-6188	14'	6" x .188	27.19	24.11	22.37	18.31	15.24	12.87	11.00	9.49	
<input type="checkbox"/> PRA16-4188	16'	4" x .188	8.55	7.31	6.50	4.86	3.62	2.76	2.25	1.85	
<input type="checkbox"/> PRA16-5125	16'	5" x .125	7.90	6.65	5.83	4.57	3.67	2.98	2.45	2.03	
<input type="checkbox"/> PRA16-5188	16'	5" x .188	14.80	12.81	11.50	9.26	7.61	6.34	5.34	4.55	
<input type="checkbox"/> PRA16-6188	16'	6" x .188	22.77	20.16	18.75	15.29	12.69	10.68	9.09	7.82	
<input type="checkbox"/> PRA20-4188	19.5'	4" x .188	5.33	4.37	3.74	2.48	1.52	0.91	0.63	0.42	
<input type="checkbox"/> PRA20-5125	19.5'	5" x .125	4.50	3.54	2.90	2.11	1.56	1.16	0.85	0.62	
<input type="checkbox"/> PRA20-5188	19.5'	5" x .188	9.83	8.29	7.28	5.73	4.60	3.75	3.09	2.56	
<input type="checkbox"/> PRA20-6188	19.5'	6" x .188	15.69	13.81	12.95	10.46	8.59	7.16	6.03	5.14	
<input type="checkbox"/> PRA25-6188	25'	6" x .188	9.74	8.46	8.07	6.38	5.12	4.17	3.43	2.85	
<input type="checkbox"/> PRA30-6188	30'	6" x .188	5.61	4.74	4.69	3.54	2.71	2.08	1.60	1.23	
<input type="checkbox"/> PRA30-6250	30'	6" x .250	11.37	9.88	9.42	7.45	5.99	4.88	4.02	3.34	



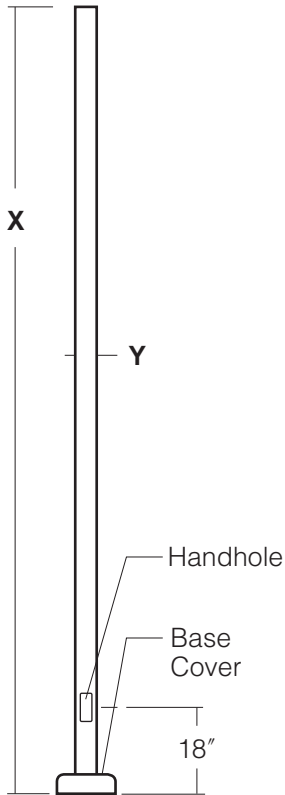
Type:

Job:

Page: 3 of 5

## Standard Features



**NOTE:** All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 4).



### Anchor Base and Bolt Detail

Pole Height	Pole Diameter	Bolt Circle Dia.	Anchor Bolt Projection	Anchor Bolts Size	Base Cover Size	Conduit Opening
8'-14'	4"-5"	8½"	3¼"	¾" x 15" + 3"	11⅞"	3" dia.
10'-14'	3⅜"	7"	3⅛"	¾" x 15" + 3"	11⅞"	2½" dia.
12'	6"	10½"	3⅜"	¾" x 15" + 3"	11⅞"	3" dia.
14'	6"	8½"	3¼"	¾" x 30" + 4"	11⅞"	3" dia.
16'-20'	4"-5"	8½"	3¼"	¾" x 30" + 4"	11⅞"	3" dia.
25'-30'	6"	10½"	3⅜"	¾" x 30" + 4"	14"	5" dia.

### Mounting

Plan Views: **Flush Mount**  **Side Arm** 

Mounting<sup>1</sup>:  FM  A  SA  B  SB  L  SL  T  ST  Y  SY  C  SC

**NOTE: Allowable Pole EPA** for jobsite wind conditions must be equal to or greater than fixture mount EPA. Please refer to Kim luminaire catalog for specific fixture.

<sup>1</sup>See luminaire drilling requirements in luminaire catalog.

#### Structural Luminaires *Only* - Examples

- TS**: Single Tension for small and large Structural - PRA20-5188SB-TS
- TD**: Double Tension for small and large Structural - PRA20-5188B-TD
- TR**: Truss for small and large Structural - PRA20-5188SB-TR
- XTS**: Single Tension for 1000W Structural - PRA20-5188B-XTS
- XTD**: Double Tension for 1000W Structural - PRA20-5188B-XTD
- XTR**: Truss for 1000W Structural - PRA20-5188B-XTR

Type:

Job:

Page: 4 of 5

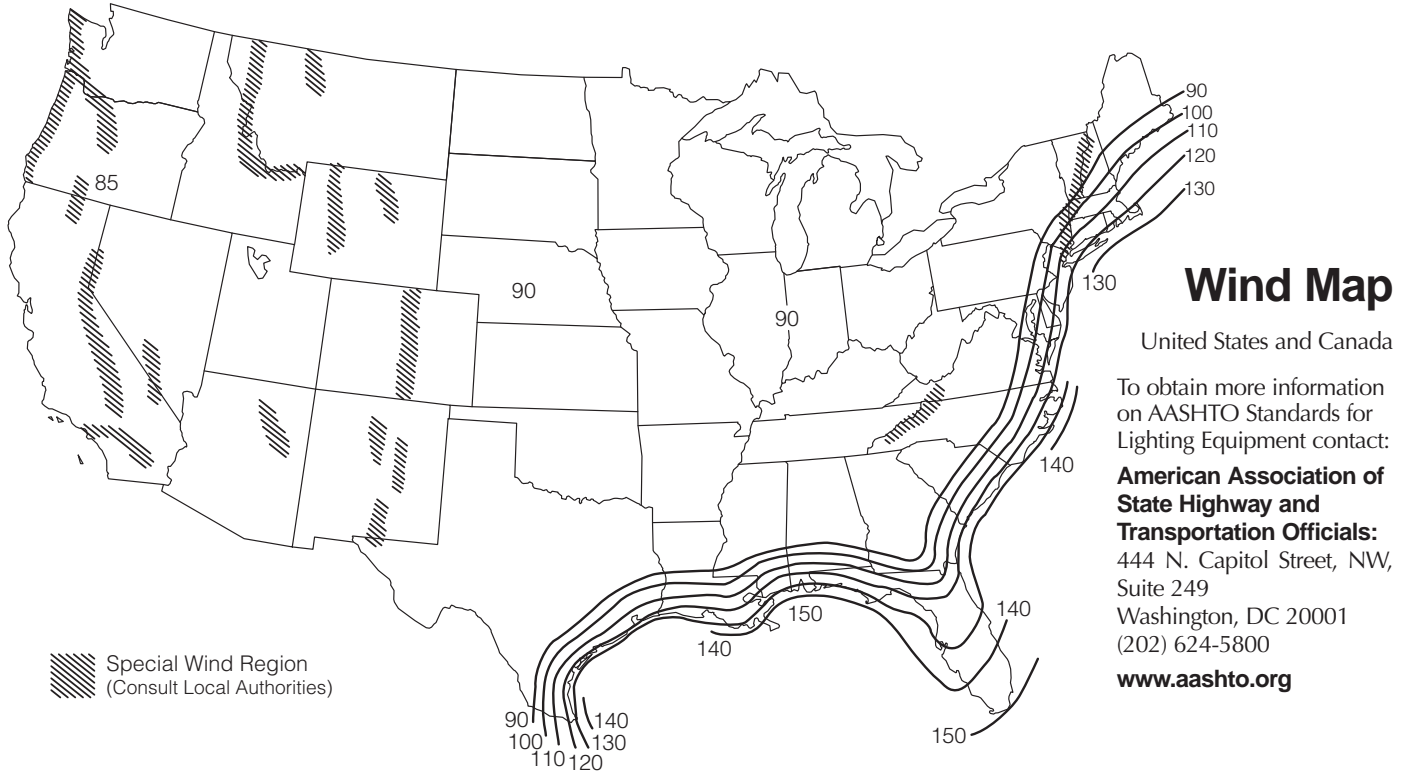
## Standard and Optional Features

<p><b>Finish</b>          Super TGIC powder coat paint over a zirconium conversion coating.</p>	<p>Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color<sup>1</sup>          Cat. No.: <input type="checkbox"/> <b>BL</b> <input type="checkbox"/> <b>DB</b> <input type="checkbox"/> <b>LG</b> <input type="checkbox"/> <b>SG</b> <input type="checkbox"/> <b>PS</b> <input type="checkbox"/> <b>WH</b> <input type="checkbox"/> <b>CC</b></p> <p><sup>1</sup>Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>
<p><b>Optional Hinged Base</b>          Cat. No. <input type="checkbox"/> <b>HB-X1</b>  <input type="checkbox"/> <b>HB-X2</b>  <input type="checkbox"/> <b>HB-Y1</b>  <input type="checkbox"/> <b>HB-Y2</b>  <input type="checkbox"/> <b>No Option</b></p>	<p>Optional hinged base available for <b>FM</b>, <b>A</b>, and <b>B</b> mount poles up to <b>14 feet</b> only. The use of hinged bases requires some pre-planning so poles hinge in the right direction, as dictated by the surrounding environment.</p> <div style="text-align: center;"> <p>Hinging Directions</p> </div> <p><b>NOTE:</b> For <b>FM</b> mount, use <b>HB-X1</b> base.</p>
<p><b>Optional Duplex Receptacle</b>          Cat. No. <input type="checkbox"/> <b>DR</b>  <input type="checkbox"/> <b>DR-GFI</b>  <input type="checkbox"/> <b>No Option</b></p>	<p>Mounted opposite the handhole, at 22½" from base of pole, in a cast aluminum box that is internally welded and sealed with a gasketed self-closing cover and locking bracket.</p> <p><b>Duplex Receptacle (DR)</b> rated 20A., 125V.  <b>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A., 125V.</p>

Type:

Job:

Page: 5 of 5



**NOTES:**

- Values are based on 50 year mean recurrence interval 30' above grade.
- Hawaii has an **105 mph** wind velocity.
- Puerto Rico has a **125 mph** wind velocity.
- Caution must be exercised in determining wind velocities in special wind areas such as:
  - Mountainous Regions
  - Areas surrounding the Great Lakes or other large bodies of water or open land.
  - Areas subject to extreme wind conditions, such as hurricanes, typhoons, cyclones, and tornadoes.
  - Areas adjacent to airports.
  - Any specific area with a known or suspected abnormally high intermittent wind condition caused by geography, adjacent structures, or other specific local conditions that may not be recorded in National Weather Service records.
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than fixture EPA. Responsibility lies with the specifier for correct pole selection based on AASHTO wind map and job location.
- The Wind Map is intended only as a general guide. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application.
- **CAUTION:** Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide. Consult AASHTO standards.
- Extreme Wind Events: Hurricanes, Typhoons, Cyclones, or Tornadoes expose poles to flying debris, wind shear, and other unpredictable aerodynamic forces not indicated by the wind velocity ratings.
- Pole Strength Limited Warranty: Standard, unmodified Kim lighting Poles installed as recommended, undamaged by corrosion, or lack of maintenance, shall withstand steady wind conditions as provided on page 2 (Allowable Pole EPA). Installation of poles without luminaires, or attachment of any unauthorized accessories to poles shall void this warranty.



**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

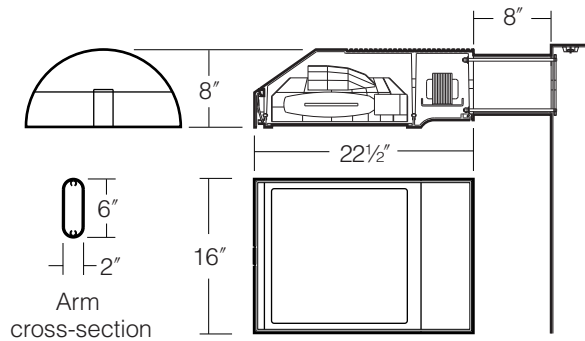
/	/	/	/	/
Mtg.	Fixture	Electrical Module	Finish	Options
See page 2				Optional Vertical Slipfitter Mount See page 5

**Date:**  
**Page: 1 of 5**

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

150 to 400 watt  
Mogul Base Lamps  
Maximum Fixture weight (400HPS) = 45 lb



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Optional Wall Mounting:** Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	IP66 Rated	25C Ambient
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<sup>1</sup>Suitable for wet locations.

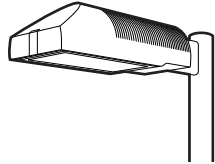
KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



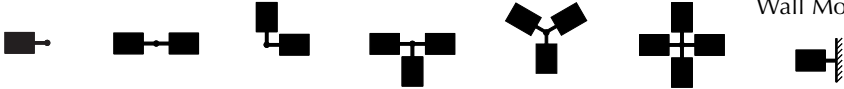

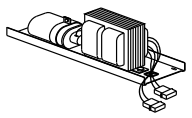
Type:

Job:

Page: 2 of 5



## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.2            2.4            2.0            3.2            3.2            3.9            n/a</p> <p>Cat. No.:    <input type="checkbox"/> 1A    <input type="checkbox"/> 2B    <input type="checkbox"/> 2L    <input type="checkbox"/> 3T    <input type="checkbox"/> 3Y    <input type="checkbox"/> 4C    <input type="checkbox"/> 1W</p>																																																																																			
<p><b>Fixture</b> Cat. No. designates fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Flat Lens</b></p>  <p>Light Distribution:    Type I            Type II            Type III            Type IV            Type V</p> <p>                                 Full Cutoff    Full Cutoff    Full Cutoff    Forward Throw Full Cutoff    Square Full Cutoff</p> <p>Cat. No.:            <input type="checkbox"/> AR1    <input type="checkbox"/> AR2    <input type="checkbox"/> AR3    <input type="checkbox"/> AR4    <input type="checkbox"/> AR5</p>																																																																																			
<p><b>Electrical Module</b> <b>HPS</b> = High Pressure Sodium <b>PMH</b> = Pulse Start Metal Halide</p>  <p>Lamp    Watts    Type    Line Volts</p> <p><b>400    HPS    277</b></p>	<p>Cat. Nos. for Electrical Modules available:</p> <table border="1"> <tr> <td colspan="4">High Pressure Sodium</td> </tr> <tr> <td><input type="checkbox"/> 150HPS120</td> <td><input type="checkbox"/> 250HPS120</td> <td><input type="checkbox"/> 400HPS120</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS208</td> <td><input type="checkbox"/> 250HPS208</td> <td><input type="checkbox"/> 400HPS208</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS240</td> <td><input type="checkbox"/> 250HPS240</td> <td><input type="checkbox"/> 400HPS240</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS277</td> <td><input type="checkbox"/> 250HPS277</td> <td><input type="checkbox"/> 400HPS277</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS347</td> <td><input type="checkbox"/> 250HPS347</td> <td><input type="checkbox"/> 400HPS347</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS480</td> <td><input type="checkbox"/> 250HPS480</td> <td><input type="checkbox"/> 400HPS480</td> <td></td> </tr> <tr> <td>Lamp</td> <td>E-23½, Clear</td> <td>E-18, Clear</td> <td>E-18, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>S-55</td> <td>S-50</td> <td>S-51</td> </tr> <tr> <td colspan="4">Pulse Start Metal Halide</td> </tr> <tr> <td><input type="checkbox"/> 250PMH120</td> <td><input type="checkbox"/> 320PMH120</td> <td><input type="checkbox"/> 350PMH120</td> <td><input type="checkbox"/> 400PMH120</td> </tr> <tr> <td><input type="checkbox"/> 250PMH208</td> <td><input type="checkbox"/> 320PMH208</td> <td><input type="checkbox"/> 350PMH208</td> <td><input type="checkbox"/> 400PMH208</td> </tr> <tr> <td><input type="checkbox"/> 250PMH240</td> <td><input type="checkbox"/> 320PMH240</td> <td><input type="checkbox"/> 350PMH240</td> <td><input type="checkbox"/> 400PMH240</td> </tr> <tr> <td><input type="checkbox"/> 250PMH277</td> <td><input type="checkbox"/> 320PMH277</td> <td><input type="checkbox"/> 350PMH277</td> <td><input type="checkbox"/> 400PMH277</td> </tr> <tr> <td><input type="checkbox"/> 250PMH347</td> <td><input type="checkbox"/> 320PMH347</td> <td><input type="checkbox"/> 350PMH347</td> <td><input type="checkbox"/> 400PMH347</td> </tr> <tr> <td><input type="checkbox"/> 250PMH480</td> <td><input type="checkbox"/> 320PMH480</td> <td><input type="checkbox"/> 350PMH480</td> <td><input type="checkbox"/> 400PMH480</td> </tr> <tr> <td>Lamp</td> <td>ED-28, Clear</td> <td>BT-28, Clear</td> <td>BT-28, Clear</td> <td>ED-28, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>M-138</td> <td>M-132, M154, or M170</td> <td>M-131, M171</td> <td>M-135</td> </tr> </table> <p><b>NOTE:</b> Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims. (Visit <a href="http://www.aboutlightingcontrols.org">www.aboutlightingcontrols.org</a> or the Library of Congress website for more details).</p>	High Pressure Sodium				<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 250HPS120	<input type="checkbox"/> 400HPS120		<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 250HPS208	<input type="checkbox"/> 400HPS208		<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 250HPS240	<input type="checkbox"/> 400HPS240		<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 250HPS277	<input type="checkbox"/> 400HPS277		<input type="checkbox"/> 150HPS347	<input type="checkbox"/> 250HPS347	<input type="checkbox"/> 400HPS347		<input type="checkbox"/> 150HPS480	<input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS480		Lamp	E-23½, Clear	E-18, Clear	E-18, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	S-55	S-50	S-51	Pulse Start Metal Halide				<input type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120	<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120	<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208	<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208	<input type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240	<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240	<input type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277	<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277	<input type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347	<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347	<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480	<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480	Lamp	ED-28, Clear	BT-28, Clear	BT-28, Clear	ED-28, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	M-138	M-132, M154, or M170	M-131, M171	M-135
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**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

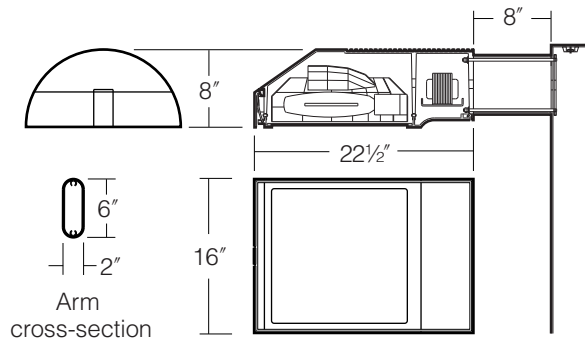
/	/	/	/	/
Mtg.	Fixture	Electrical Module	Finish	Options
See page 2				Optional Vertical Slipfitter Mount See page 5

**Date:**  
**Page: 1 of 5**

Select pole from Kim Pole Catalog. If pole is provided by others indicate O.D. for arm fitting.

## Specifications

150 to 400 watt  
Mogul Base Lamps  
Maximum Fixture weight (400HPS) = 45 lb



**Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling ribs over the optical chamber and electrical compartment. Solid barrier wall separates optical and electrical compartments. Double-thick wall with gussets on the support-arm mounting end. Housing forms a half cylinder with 55° front face plane providing a recess to allow a flush single-latch detail. All hardware is stainless steel or electro-zinc plated steel.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy lens frame with 1" minimum depth around the gasket flange. Integral hinges with stainless steel pins provide no-tool mounting and removal from housing. Single die-cast aluminum cam-latch provides positive locking and sealing of the optical chamber by a one-piece extruded and vulcanized silicone gasket. Clear 3/16" thick tempered glass lens retained by eight steel clips with full silicone gasketing around the perimeter.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing as a one-piece module. Reflector module is field rotatable in 90° increments. HPS and PMH sockets are porcelain 4KV pulse rated mogul base with molded silicone lamp stabilizer. All reflector modules are factory prewired with quick-disconnect plug and include silicone seal at the penetration of the internal barrier wall in the luminaire housing.

**Electrical Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. All ballasts are high power factor rated -20°F. starting.

**Support Arm:** One-piece extruded aluminum with internal bolt guides and fully radiussed top and bottom. Luminaire-to-pole attachment is by internal draw bolts, and includes a pole reinforcing plate with wire strain relief. Arm is circular cut for specified round pole.

**Optional Wall Mounting:** Fixture mounted to poured concrete walls only. A modified support arm is provided with side access to allow field splices within the arm. A wall embedment bracket is provided to accept draw bolts, and a trim plate covers the wall-embedded junction box. All wall mount components are finished to match the fixture.

**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	IP66 Rated	25C Ambient
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<sup>1</sup>Suitable for wet locations.

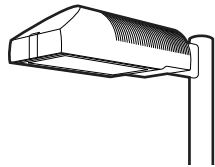
KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



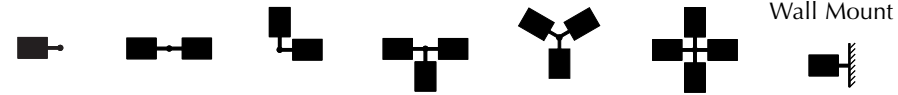

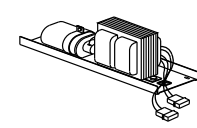
Type:

Job:

Page: 2 of 5



## Standard Features

<p><b>Mounting</b> 3Y configuration is available for round poles only.</p>	<p>Plan View:</p>  <p>EPA:            1.2            2.4            2.0            3.2            3.2            3.9            n/a</p> <p>Cat. No.:    <input type="checkbox"/> 1A    <input type="checkbox"/> 2B    <input type="checkbox"/> 2L    <input type="checkbox"/> 3T    <input type="checkbox"/> 3Y    <input type="checkbox"/> 4C    <input type="checkbox"/> 1W</p>																																																																																										
<p><b>Fixture</b> Cat. No. designates fixture and light distribution. See the Kim Site/Roadway Optical Systems Catalog for detailed information on reflector design and application.</p>	<p><b>Flat Lens</b></p>  <p>Light Distribution:    Type I            Type II            Type III            Type IV            Type V</p> <p>                                 Full Cutoff    Full Cutoff    Full Cutoff    Forward Throw Full Cutoff    Square Full Cutoff</p> <p>Cat. No.:            <input type="checkbox"/> AR1    <input type="checkbox"/> AR2    <input type="checkbox"/> AR3    <input type="checkbox"/> AR4    <input type="checkbox"/> AR5</p>																																																																																										
<p><b>Electrical Module</b> <b>HPS</b> = High Pressure Sodium <b>PMH</b> = Pulse Start Metal Halide</p>  <p>Lamp    Watts    Type    Line Volts <b>400    HPS    277</b></p>	<p>Cat. Nos. for Electrical Modules available:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="3">High Pressure Sodium</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 150HPS120</td> <td><input type="checkbox"/> 250HPS120</td> <td><input type="checkbox"/> 400HPS120</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS208</td> <td><input type="checkbox"/> 250HPS208</td> <td><input type="checkbox"/> 400HPS208</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS240</td> <td><input type="checkbox"/> 250HPS240</td> <td><input type="checkbox"/> 400HPS240</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS277</td> <td><input type="checkbox"/> 250HPS277</td> <td><input type="checkbox"/> 400HPS277</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS347</td> <td><input type="checkbox"/> 250HPS347</td> <td><input type="checkbox"/> 400HPS347</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 150HPS480</td> <td><input type="checkbox"/> 250HPS480</td> <td><input type="checkbox"/> 400HPS480</td> <td></td> </tr> <tr> <td>Lamp</td> <td>E-23½, Clear</td> <td>E-18, Clear</td> <td>E-18, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>S-55</td> <td>S-50</td> <td>S-51</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th colspan="4">Pulse Start Metal Halide</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> 250PMH120</td> <td><input type="checkbox"/> 320PMH120</td> <td><input type="checkbox"/> 350PMH120</td> <td><input type="checkbox"/> 400PMH120</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH208</td> <td><input type="checkbox"/> 320PMH208</td> <td><input type="checkbox"/> 350PMH208</td> <td><input type="checkbox"/> 400PMH208</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH240</td> <td><input type="checkbox"/> 320PMH240</td> <td><input type="checkbox"/> 350PMH240</td> <td><input type="checkbox"/> 400PMH240</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH277</td> <td><input type="checkbox"/> 320PMH277</td> <td><input type="checkbox"/> 350PMH277</td> <td><input type="checkbox"/> 400PMH277</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH347</td> <td><input type="checkbox"/> 320PMH347</td> <td><input type="checkbox"/> 350PMH347</td> <td><input type="checkbox"/> 400PMH347</td> <td></td> </tr> <tr> <td><input type="checkbox"/> 250PMH480</td> <td><input type="checkbox"/> 320PMH480</td> <td><input type="checkbox"/> 350PMH480</td> <td><input type="checkbox"/> 400PMH480</td> <td></td> </tr> <tr> <td>Lamp</td> <td>ED-28, Clear</td> <td>BT-28, Clear</td> <td>BT-28, Clear</td> <td>ED-28, Clear</td> </tr> <tr> <td>Socket</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> <td>Mogul Base</td> </tr> <tr> <td>ANSI Ballast</td> <td>M-138</td> <td>M-132, M154, or M170</td> <td>M-131, M171</td> <td>M-135</td> </tr> </tbody> </table> <p><b>NOTE:</b> Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims. (Visit <a href="http://www.aboutlightingcontrols.org">www.aboutlightingcontrols.org</a> or the Library of Congress website for more details).</p>		High Pressure Sodium			<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 250HPS120	<input type="checkbox"/> 400HPS120		<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 250HPS208	<input type="checkbox"/> 400HPS208		<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 250HPS240	<input type="checkbox"/> 400HPS240		<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 250HPS277	<input type="checkbox"/> 400HPS277		<input type="checkbox"/> 150HPS347	<input type="checkbox"/> 250HPS347	<input type="checkbox"/> 400HPS347		<input type="checkbox"/> 150HPS480	<input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS480		Lamp	E-23½, Clear	E-18, Clear	E-18, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	S-55	S-50	S-51		Pulse Start Metal Halide				<input type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120	<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120		<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208	<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208		<input type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240	<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240		<input type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277	<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277		<input type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347	<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347		<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480	<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480		Lamp	ED-28, Clear	BT-28, Clear	BT-28, Clear	ED-28, Clear	Socket	Mogul Base	Mogul Base	Mogul Base	Mogul Base	ANSI Ballast	M-138	M-132, M154, or M170	M-131, M171	M-135
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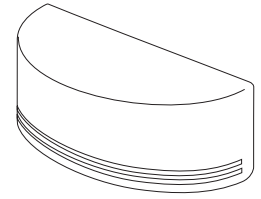
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Job:

Type:

# 100 LINE

## 104 HALF CYLINDER SCONCES



The Gardco 104 half-cylinder high performance sconces are architecturally refined luminaires designed to integrate naturally to wall surfaces. The 104 provides a choice of three (3) highly efficient downlight optical systems. Each luminaire is designed to accept sources up to 175MH. Housings are sealed throughout, completely excluding moisture, dust, insects and contaminants.

### ORDERING

PREFIX	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.					

### PREFIX

<b>104</b>	Half Cylinder
<b>104EM</b>	Emergency Sconce
<b>104EMR</b>	Remote Emergency Sconce

Refer to configuration Chart below for available combinations

### DISTRIBUTION

<b>FT</b>	Forward Throw <i>N/A w/Fluorescent Lamps</i>
<b>WT</b>	Wide Throw <i>N/A w/Fluorescent Lamps</i>
<b>MT</b>	Medium Throw

### WATTAGE AND VOLTAGE

LAMP/VOLTAGE CHART - 104

Voltage:	120	208	240	277	347	480
<i>E17</i>						
<b>50MH</b>	•			•		
<b>70MH</b>	•	•	•	•	•	
<b>100MH</b>	•	•	•	•	•	•
<b>150MH</b>	•	•	•	•	•	
<b>175MH</b>	•	•	•	•	•	•
<b>35HPS</b>	•					
<b>50HPS</b>	•			•		
<b>70HPS</b>	•	•	•	•	•	•
<b>100HPS</b>	•	•	•	•	•	•
<b>150HPS</b>	•	•	•	•	•	
<b>50CMHE</b>	•			•		
<b>70CMHE</b>	•			•		
<b>100CMHE</b>	•			•		
<i>Fluorescent</i>						
<b>26QF<sup>1</sup></b>	•	•	•	•	•	
<b>226QF<sup>1</sup></b>	•	•	•	•	•	
<b>32TRF<sup>1</sup></b>	•	•	•	•	•	
<b>42TRF<sup>1</sup></b>	•	•	•	•	•	
<b>242TRF<sup>1</sup></b>	•	•	•	•	•	

CONFIGURATION CHART - 104EM

	Distribution			Voltage					
	FT	WT	MT	120	208	240	277	347	480
<i>Fluorescent</i>									
<b>226QF</b>			•	•			•		
<b>42TRF</b>			•	•			•		

CONFIGURATION CHART - 104EMR

	Distribution			Voltage					
	FT	WT	MT	120	208	240	277	347	480
<i>Fluorescent</i>									
<b>226QF</b>			•	•			•	•	
<b>42TRF</b>			•	•			•	•	
<b>242TRF</b>			•	•			•	•	

Combinations marked with a dot are available for ordering.

MH - Metal Halide CMHE - Ceramic Metal Halide with Electronic Ballast

HPS - High Pressure Sodium QF - Quad Fluorescent

TRF - Triple Tube Fluorescent

1. 26QF, 32TRF and 42TRF types feature an electronic fluorescent ballast that accepts 120V through 277V, 50hz or 60hz input.

2. Contact factory for Fluorescent Dimming

### FINISH

<b>BRP</b>	Bronze Paint
<b>BLP</b>	Black Paint
<b>WP</b>	White Paint
<b>NP</b>	Natural Aluminum Paint
<b>BGP</b>	Beige Paint
<b>OC</b>	Optional Color Paint <i>Specify RAL designation as shown in Color Selection Guide. ex: OC-RAL7024</i>
<b>SC</b>	Special Color Paint <i>Specify. Must supply color chip</i>

### OPTIONS

<b>F</b>	Fusing <i>120V/277V only</i>
<b>PCB</b>	Button Type Photocontrol <i>n/a w/480V</i>
<b>QS</b>	Quartz Standby <i>WT Optics only. HID only. N/A with CMHE Ballasts or with 175MH-480V</i>
<b>Q924</b>	Quartz Emergency <i>HID, WT Optics only. 150w max</i>
<b>SL</b>	Solite <sup>®</sup> Diffusing Lens
<b>UT</b>	5° Uptilt

<b>WS</b>	Wall Mounted Box for Surface Conduit
<b>WS/UT</b>	WS Option w/5° Uptilt
<b>B84C</b>	Bodine Remote Emergency Pack <i>EMR luminaires only. Must be ordered here or supplied by others</i>
<b>B84C-CAN</b>	Bodine Remote Emergency Pack - Canada <i>EMR luminaires only. Must be ordered here or supplied by others</i>

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A Genlyte Company

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San Leandro, CA 94577

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510/357-6900 in California  
Fax: 510/357-3088  
www.sitelighting.com



# 100 LINE

## 104 HALF CYLINDER SCONCES

### SPECIFICATIONS

**GENERAL:** Each Gardco 104 Line luminaire is a wall mounted cutoff luminaire for high intensity discharge or compact fluorescent lamps. Internal components are totally enclosed in a rain-tight, dust-tight and corrosion resistant housing. The housing, back plate and door frame are diecast aluminum. Three (3) downlight only optical systems are available for the 104 LINE. Luminaires are suitable for wet locations (damp locations if inverted).

**HOUSING:** Single-piece aluminum housings are diecast in a half-cylindrical form. 104 units have fully cast tops. A memory retentive gasket seals the housing with the doorframe to exclude moisture, dust, insects and pollutants from the optical system. A black, diecast ribbed backplate dissipates heat for longer lamp and ballast life.

**DOOR FRAME:** A single-piece diecast aluminum door frame integrates to the housing form. The door frame is hinged closed and secured to the housing with two (2) captive stainless steel fasteners. The heat and impact resistant 1/8" tempered glass lens and one-piece gasket are mechanically secured to the door frame with five (5) galvanized steel retainers.

**OPTICAL SYSTEMS:** Reflectors are composed of specular extruded and faceted Alzak<sup>®</sup> components, electropolished, anodized and sealed. Reflector segments are set in arc tube image duplicating patterns to achieve the wide throw, forward throw or medium throw downlight distributions.

**ELECTRICAL: Standard Luminaires:** Each high power factor ballast is the separate component type, capable of providing reliable lamp starting down to -20° F. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher.

Standard and dimming fluorescent units have a starting temperature of 0°F (-18°C). Dimming range is 15% to 100% Standard fluorescent ballasts are solid state.

**EM Luminaires:** Electronic fluorescent ballasts are high power factor. Sockets are high temperature polycarbonate with brass contacts. In the event of power interruption, integral battery pack will power (1) 42W or (2) 26W compact fluorescent lamps at reduced light levels. Maintenance free battery is rated for ambient temperatures down to 0°C. Indicator light is visible through the lens. A test switch is accessible through the door assembly.

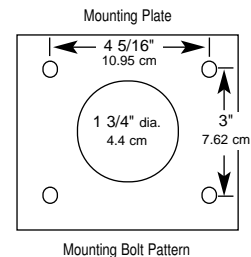
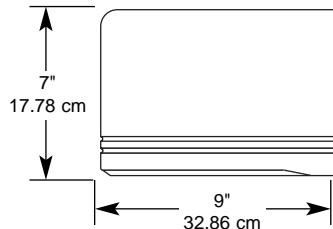
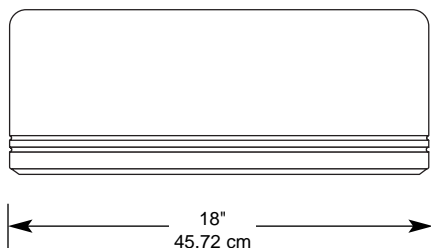
**EMR Luminaires:** Electronic fluorescent ballasts are high power factor. Sockets are high temperature PBT with brass contacts. A 7.5', 11 wire, quick disconnect assembly is provided for wiring through conduit (by others) to a Bodine B84C fluorescent emergency ballast. The B84C fluorescent emergency ballast is not provided by Gardco unless the B84C Option is specified on the order to the factory. In the event of power interruption, The remote battery pack (B84C) will power (1) 42W or (2) 26W compact fluorescent lamp at reduced light levels. Maintenance free battery is rated for ambient temperatures down to 0°C. Indicator light is visible through the lens. A test switch is accessible through the door assembly.

**LAMPHOLDER:** Pulse rated medium base sockets are glazed porcelain with nickel plated screw shell. Fluorescent sockets are high temperature plastic (PBT) with brass alloy contacts.

**FINISH:** Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), natural aluminum (NP) and beige (BGP). Consult factory for specs on custom colors.

**LABELS:** All luminaires bear either UL or CUL (where applicable) Wet Location labels. Lens down application is Wet Location and lens up is Damp Location.

### DIMENSIONS



Note: Mounting plate center is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Splices must be made in the J-box (by others). Mounting plate must be secured by max. 5/16" diameter bolts (by others) structurally to the wall.

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