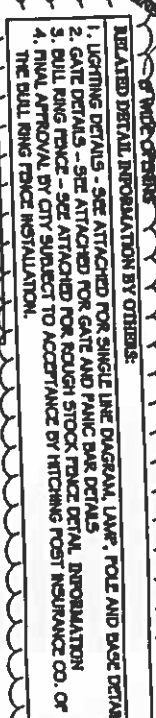


**EXHIBIT A  
SITE PLAN**

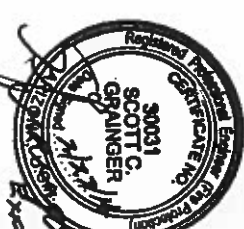
<p>REFERED NOTE</p> <p>① DESTING PAVED AREA</p>	<p>NOTE:</p> <p>GATES 1A, 1B, 2, 3, 4, 5 PROVIDE          PHOTOINTEGRANT OVERSIDE, RED LETTER          EXIT SIGN ON EACH GATE AT THE TOP OF          GATE.</p> <p>THE CONFIGURATION OF THE POOL          MAY VARY.</p>
---	--

GATE SCHEDULE: ALL GATES ARE NEW, AOA COMPLIANT. SEE ATTACHED FOR DETAILS BY OTHERS			
GATE #	SIZE	PUMP BAR	# DOCS PLATE
1A	4X2	Y	
1B	4X2	Y	
2	4X2	Y	
3	4X2	Y	
4	4X2	Y	
5	4X2	Y	

**ALL GATES TO REMAIN UNLOCKED  
AND OPERABLE DURING  
WORKING HOURS**



**RESPONSIBILITY NOTE**  
BACKGROUND, PROPERTY AND  
FENCE AND LIGHTING INFORMATION  
WAS PROVIDED BY OTHERS AND I  
NOT THE RESPONSIBILITY OF THIS  
REGISTANT



REFER TO GCI REPORT OF FINDINGS DATED 1/29/14 FOR EXISTING DATA

**EXISTING SITE PLAN**  
SCALE: 1" = 30'

0 15 30  
SCALE: 1" = 30'

[illegible]

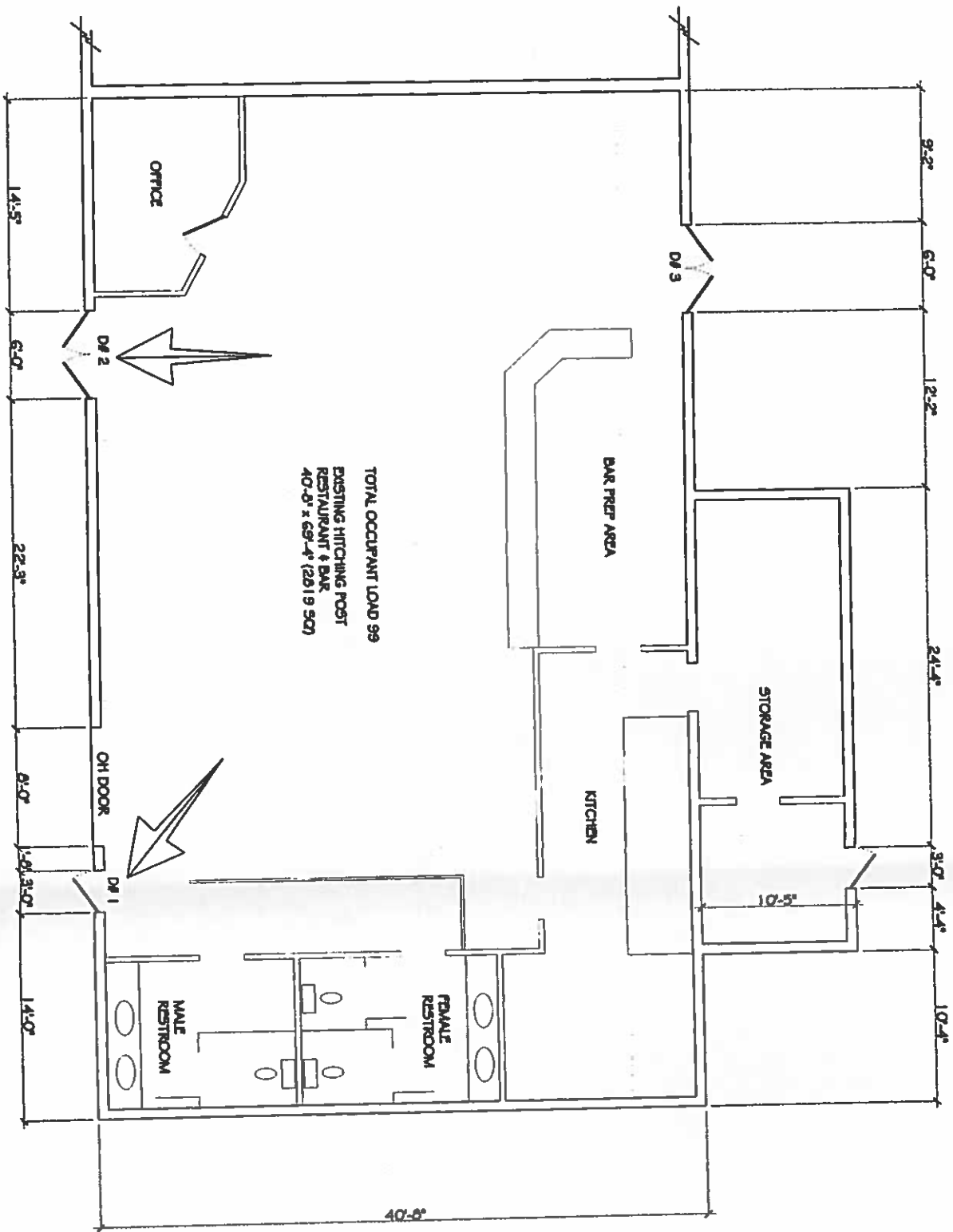
PROJECT	BULL RING/ HITTING POST RESTAURANT 2341 N APACHE TRAIL, APACHE JUCTION, AZ 85119		
CLIENT	MOHIUDDIN MEHMOOD 2341 N APACHE TRAIL APACHE JUCTION, AZ 85119	OWNER	MOHIUDDIN MEHMOOD 2341 N APACHE TRAIL APACHE JUCTION, AZ85119
AHJ	CITY OF APACHE JUCTION, AZ		

**Grainger Consulting, Inc.**  
*Fire Protection • Forensic Engineering • Code Consulting*  
 4135 E FAIRVIEW CHURCH, AZ 85308 • 480.833.2100 • fax 480.833.2941  
[www.graingerconsulting.com](http://www.graingerconsulting.com)

DESIGNED BY: SG	DATE: 12/16/13
CALCULATED BY:	SEE CALC DATA
DRAWN BY: SH	DATE: 12/16/13
CHECKED BY: SG	DATE: 12/16/13

GC# 2621

SHEET 1 OF 2



REFER TO GC REPORT OF FINDINGS DATED 1/23/14 FOR POSTING DETAIL  
**EXISTING FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

30031  
 SCOTT C.  
 GRAINGER  
 1/23/14  
 3/21/14

# **Grainger Consulting, Inc.**

Fire Protection / Forensic Engineering \* Code Consulting  
 4135 E. 1st Avenue, Suite 200, Phoenix, AZ 85018  
 Phone: 602.944.1100 Fax: 602.944.1101  
 www.graingerconsulting.com

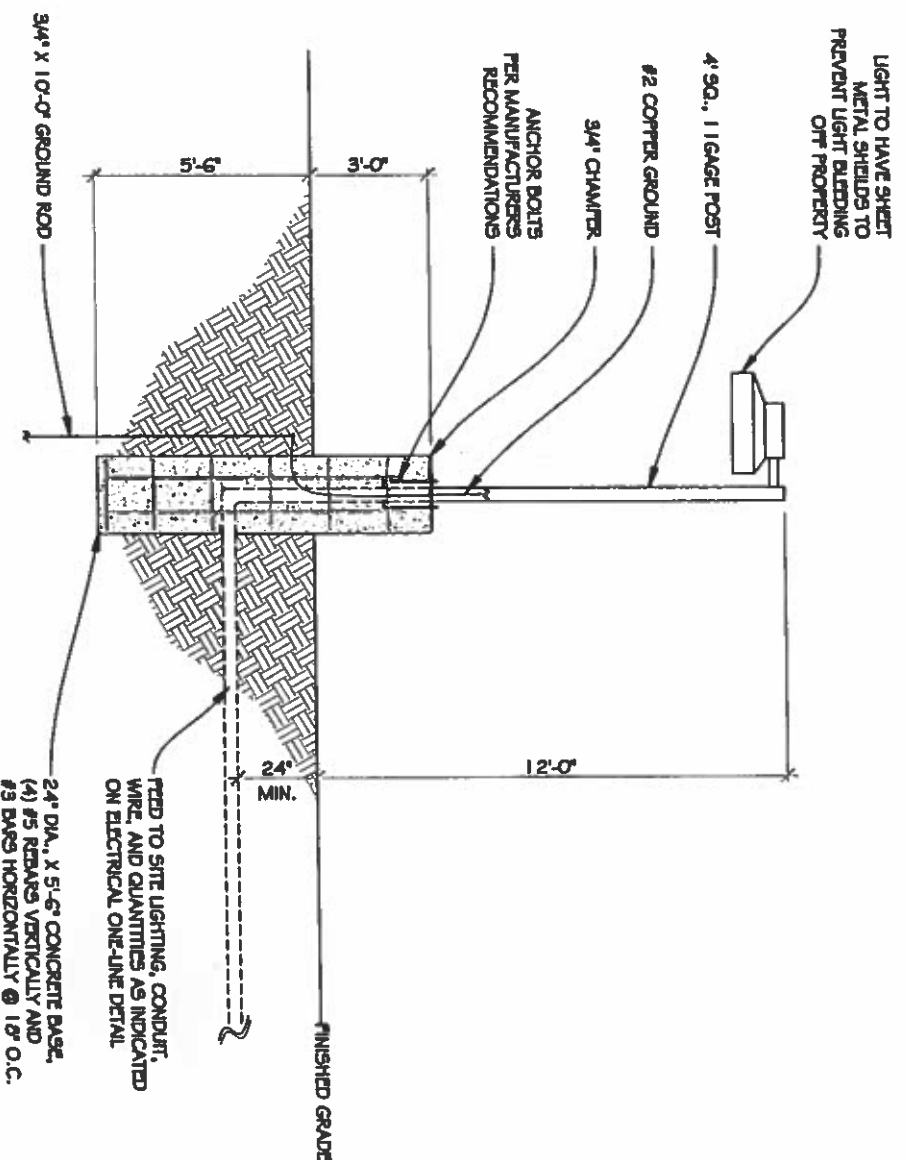
DESIGNED BY: SG DATE: 12/16/13  
 CALCULATED BY: SEE CALC DATA  
 DRAWN BY: SH DATE: 12/16/13  
 CHECKED BY: SG DATE: 12/16/13

PROJECT BULL RING / HITCHING POST RESTAURANT  
 2341 N APACHE TRAIL, APACHE JUNCTION, AZ 85119

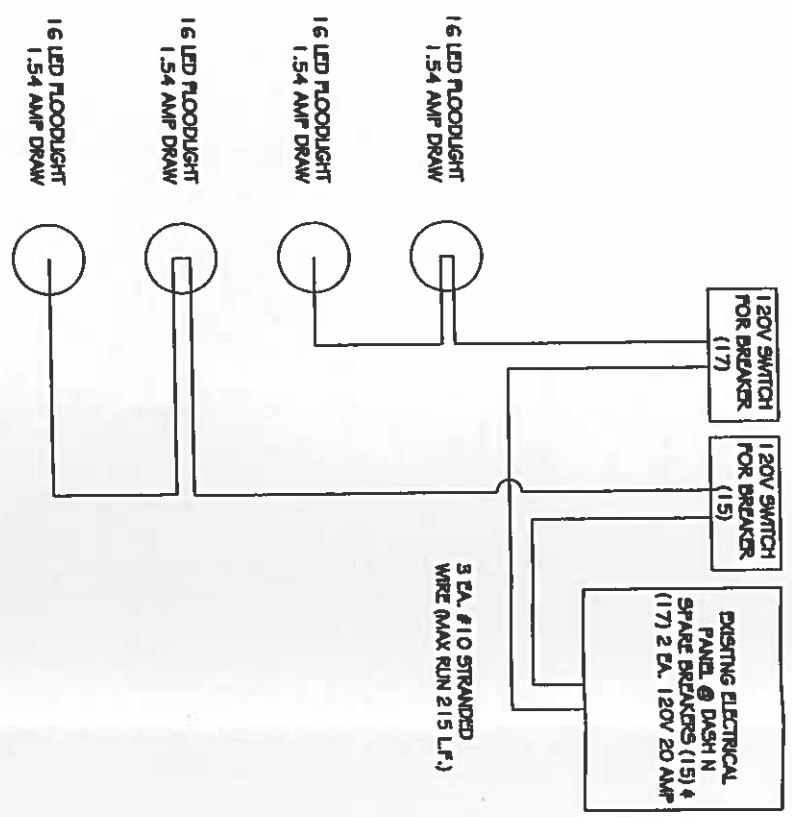
CLIENT MOHIUDDIN MEHMOOD  
 2341 N APACHE TRAIL  
 APACHE JUNCTION, AZ 85119  
 AHJ CITY OF APACHE JUNCTION, AZ

OWNER MOHIUDDIN MEHMOOD  
 2341 N APACHE TRAIL  
 APACHE JUNCTION, AZ 85119

REV 1	1/15/14	
REV 1	1/23/14	
REV 2	2/21/14	DEVELOPMENT AGREEMENT

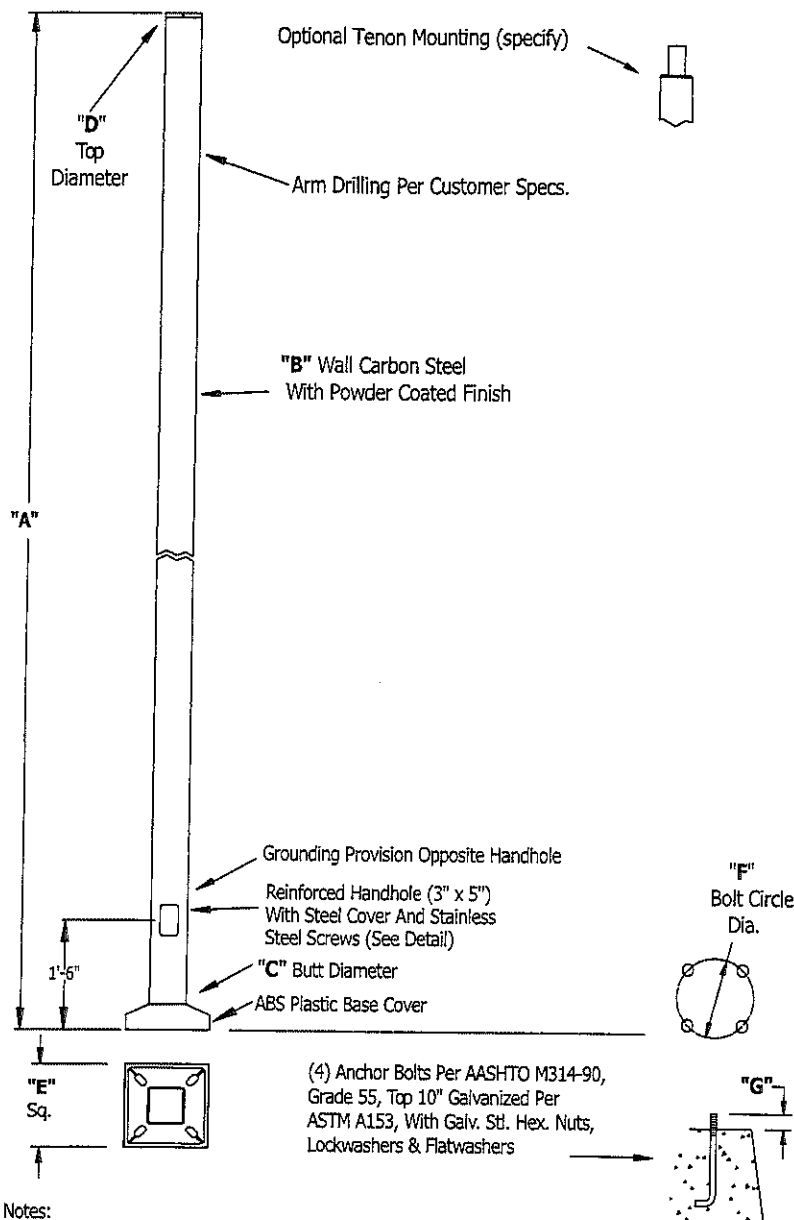


**TYPICAL LIGHT & POLE BASE DETAIL**  
 SCALE: 1/4" = 1'-0"



**ELECTRICAL ONE-LINE DETAIL**  
 SCALE: NTS

DESIGNED BY: PHX., FENCE Co. DATE: 12/16/13		PROJECT	BULL RING/ HITCHING POST RESTAURANT 2341 N APACHE TRAIL, APACHE JUNCTION, AZ, 85119	
CALCULATED BY: SEE CALC DATA		CLIENT	MOHIUDDIN MEHMOOD 2341 N APACHE TRAIL APACHE JUNCTION, AZ 85119	
DRAWN BY: SH DATE: 12/16/13		OWNER	MOHIUDDIN MEHMOOD 2341 N APACHE TRAIL APACHE JUNCTION, AZ85119	
CHECKED BY: DATE: 12/16/13		AHJ	CITY OF APACHE JUNCTION, AZ	



**Notes:**

- 1) All Material Shall Be Weldable-Grade, Hot-Rolled, Commercial Quality Carbon Steel Tubing. Base Plate and Handhole Material Shall Conform to ASTM A36. All Welds Shall Conform To AWS D1.1 Using E70xx Electrodes.
- 2) EPA Calculations Based Upon AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 1994 Edition, Using An EPA Weight of 25 lbs Per Sq Ft of EPA. Height Coefficients Based On Formula,  $(H/30)^{1/7}$ . EPA's Are Calculated At Top Of Shaft. All Welds Shall Conform To AWS D1.1 Using E70xx Electrodes.

<b>Mounting Height:</b>	12 ft
<b>Gauge:</b>	11
<b>Butt Diameter:</b>	4 in
<b>Top Diameter:</b>	4 in
<b>Base Diameter:</b>	8 in
<b>Bolt Circle:</b>	8-9 in
<b>Bolt Projection:</b>	2.75 in
<b>Bolt Size:</b>	.75 x 17 x 3
<b>Net Weight:</b>	88
<b>Luminaire Weight:</b>	275
<b>Arm Length:</b>	
<b>Quantity:</b>	

**Maximum EPA**

<b>70:</b>	30
<b>80:</b>	22.6
<b>90:</b>	17.7
<b>100:</b>	14.1
<b>110:</b>	11.3

**Accessories**

**Your Name:**  
**Representative Name:**  
**Architect Name:**  
**Project Name:**  
**Customer P.O. #:**

**Finish:** -  
**Date:** 02/21/2014  
**Notes:**

# THE EDGE® FLD-EDG-N6-AA

Flood Luminaire – NEMA 6 Flood – Adjustable Arm Mount

## Product Description

Slim, low profile design minimizes wind load requirements. Luminaire sides are rugged cast aluminum with integral, weather-tight LED driver compartments and high performance aluminum heat sinks. Adjustable arm mount is rugged die cast aluminum and mounts to 2" (51mm) IP (2.375" [60mm] O.D.) tenon. Includes leaf/debris guard.

## Performance Summary

Utilizes BetaLED® Technology

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

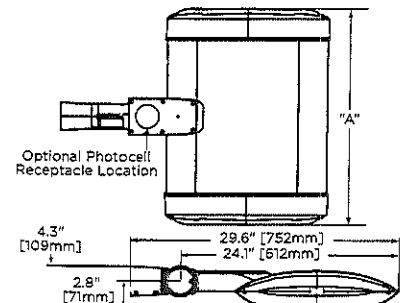
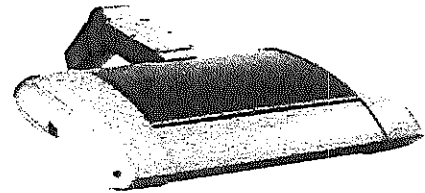
CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)

Warranty: 5 years on luminaire/10 years on Colorfast DeltaGuard® finish

EPA and Weight: Reference EPA and Weight spec sheet

## Accessories

Field Installed Accessories
XA-BRDSPK Bird Spikes



LED Count (x10)	Dim, "A"
02	12.1" [306mm]
04	12.1" [306mm]
06	14.1" [357mm]
08	16.1" [408mm]
10	18.1" [459mm]
12	20.1" [510mm]
14	22.1" [560mm]
16	24.1" [611mm]
20	28.1" [713mm]
24	32.1" [814mm]

## Ordering Information

Example: FLD-EDG-N6-AA-02-D-UL-SV-350-OPTIONS

FLD-EDG	N6	AA		D				
Product	Optic	Mounting	LED Count (x10)	Version	Voltage	Color Options	Drive Current	Options
FLD-EDG	N6 NEMA 6 Flood	AA Adjustable Arm	02 04 06 08 10 12 14 16 20 24	D	UL Universal 120-277V UH Universal 347-480V 34 347V	SV Silver (Standard) BK Black BZ Bronze PB Platinum Bronze WH White	350 350mA 525* 525mA 700** 700mA	<b>40K 4000K Color Temperature</b> - Color temperature per luminaire <b>DIM 0-10V Dimming</b> - Control by others - Refer to dimming spec sheet for details - Can't exceed specified drive current <b>F Fuse</b> - When code dictates fusing, use time delay fuse - Not available with all ML options. Refer to ML spec sheet for availability with ML options <b>HL Hi/Low (175/350/525 Dual Circuit Input)</b> - Refer to ML spec sheet for details - Sensor not included <b>P Photocell</b> - Not available with all ML options. Refer to ML spec sheet for availability with ML options - Must specify voltage other than UH <b>R NEMA Photocell Receptacle</b> - Not available with all ML options. Refer to ML spec sheet for availability with ML options - Intended for horizontal mounting - Photocell by others <b>ML Multi-Level</b> - Refer to ML spec sheet for details

\* Available on luminaires with 20-160 LEDs

\*\* Available on luminaires with 20-60 LEDs



Rev. Date: 8/14/2012



## Flood Luminaire – NEMA 6 Flood – Adjustable Arm Mount

### Product Specifications

#### CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weather-tight LED driver compartments and high performance heat sinks
- Adjustable mounting arm is rugged die cast aluminum and mounts to 2" (51mm) IP (2.375" [60mm] O.D.) tenon
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and platinum bronze are also available

#### ELECTRICAL SYSTEM

- **Input Voltage:** 120–277V or 347–480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weather-tight electrical box with terminal strips (12Ga–20Ga) for easy power hookup
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

#### REGULATORY & VOLUNTARY QUALIFICATIONS

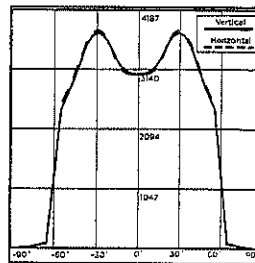
- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Product qualified on the DesignLights Consortium ("DLC") Qualified Products List ("QPL") when ordered without the backlight control shield
- RoHS Compliant
- Meets Buy American requirements within ARRA

#### PATENTS

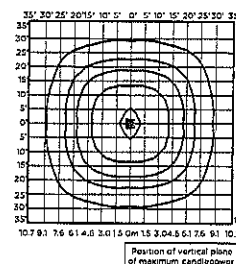
- Visit website for patents that cover these products:  
Patents <http://www.cree.com/patents>

### Photometry

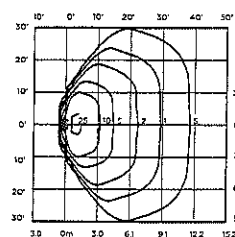
All published luminaire photometric testing performed to IESNA LM-79-08 standards by Independent Testing Laboratories, a NVLAP certified laboratory.



ITL Test Report #: 71947  
FLD-EDG-N6-\*\*-06-D-UL-700-40K  
Initial Delivered Lumens: 11,231



FLD-EDG-N6-\*\*-06-D-UL-700-40K  
Mounting Height: 20' (6.1m) A.F.G.  
Initial Delivered Lumens: 10,668  
0° Tilt  
Initial FC at grade



FLD-EDG-N6-\*\*-06-D-UL-700-40K  
Mounting Height: 10' (3.0m) A.F.G.  
Initial Delivered Lumens: 10,668  
60° Tilt  
Initial FC at grade

IES Files  
To obtain an IES file specific to your project consult:  
<http://www.cree.com/lighting/tools-and-support/exterior-ies-configuration-tool>

### Lumen Output, Electrical, and Lumen Maintenance Data

NEMA 6 Flood Distribution											
LED Count (x10)	5700K	4000K	System Watts 120-480V	TOTAL CURRENT						50K Hours Projected Lumen Maintenance Factor @ 15°C (59°F)*	
	Initial Delivered Lumens	Initial Delivered Lumens		120V	208V	240V	277V	347V	480V		
350mA @ 25°C (77°F)											
02	2,286	2,107	26	0.20	0.13	0.11	0.10	0.09	0.07	93%	
06	6,769	6,239	68	0.58	0.34	0.30	0.26	0.20	0.16		
10	11,253	10,372	111	0.95	0.55	0.47	0.42	0.32	0.24		
14	15,683	14,454	157	1.34	0.78	0.67	0.61	0.47	0.35		
20	22,405	20,649	221	1.92	1.10	0.95	0.84	0.65	0.48		
525mA @ 25°C (77°F)											
02	3,200	2,949	37	0.31	0.19	0.17	0.16	0.12	0.10	92%	
06	9,477	8,734	102	0.87	0.50	0.44	0.39	0.30	0.22		
10	15,755	14,520	172	1.47	0.85	0.75	0.67	0.51	0.38		
14	21,957	20,236	233	2.01	1.14	0.99	0.87	0.69	0.51		
700mA @ 25°C (77°F)											
02	3,909	3,602	50	0.42	0.25	0.22	0.20	0.15	0.12		90%
06	11,575	10,668	137	1.18	0.67	0.59	0.51	0.39	0.29		

\* Projected L<sub>70</sub> (10K) Hours: > 50,000. For recommended lumen maintenance factor data see TD-13

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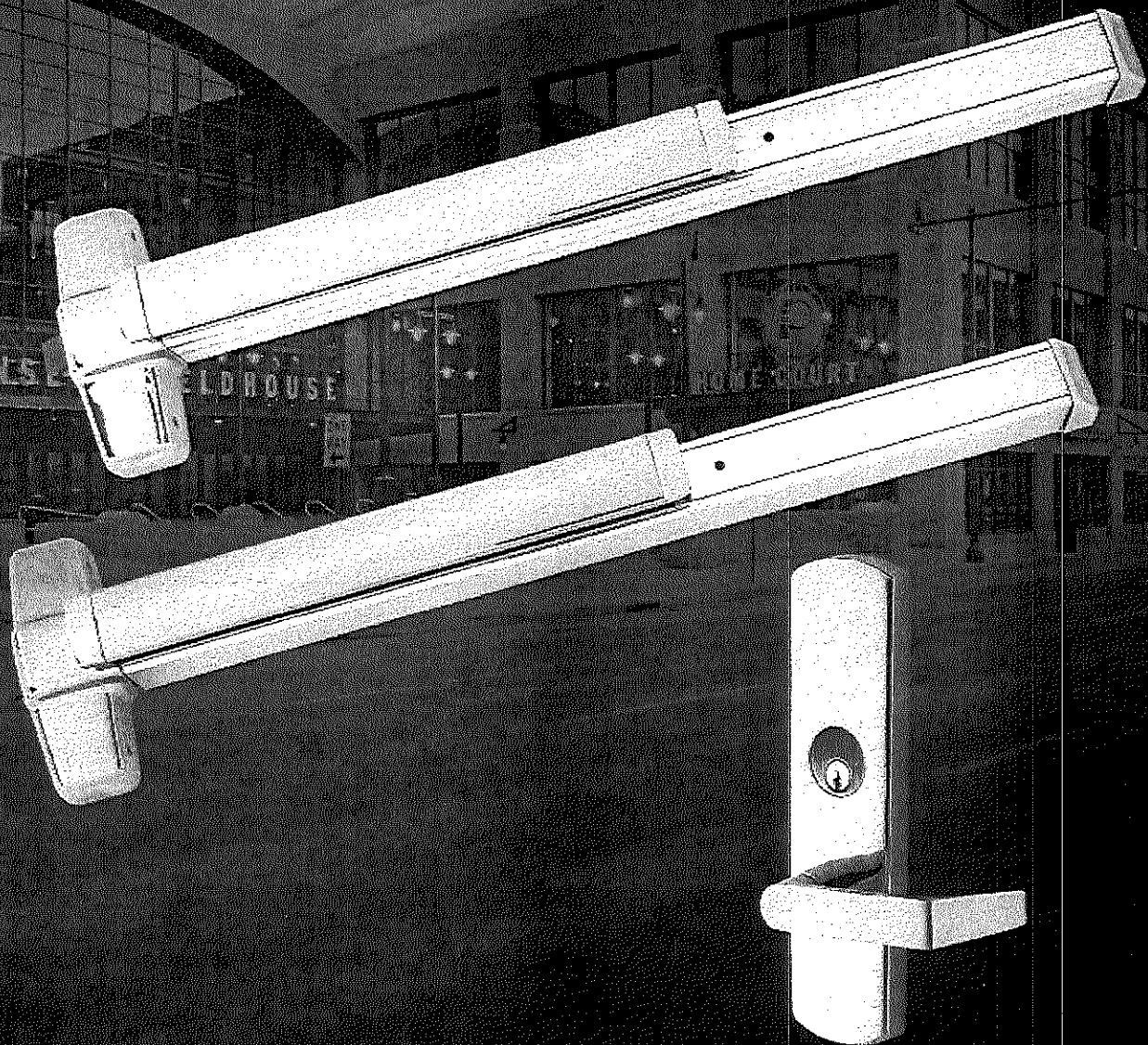
[www.cree.com/lighting](http://www.cree.com/lighting)

T (800) 236-6800 F (262) 504-5415



# VON DUPRIN®

## 98/99™ Series Exit Devices



**Security & Safety**  
Proven Source. Proven Solutions.™



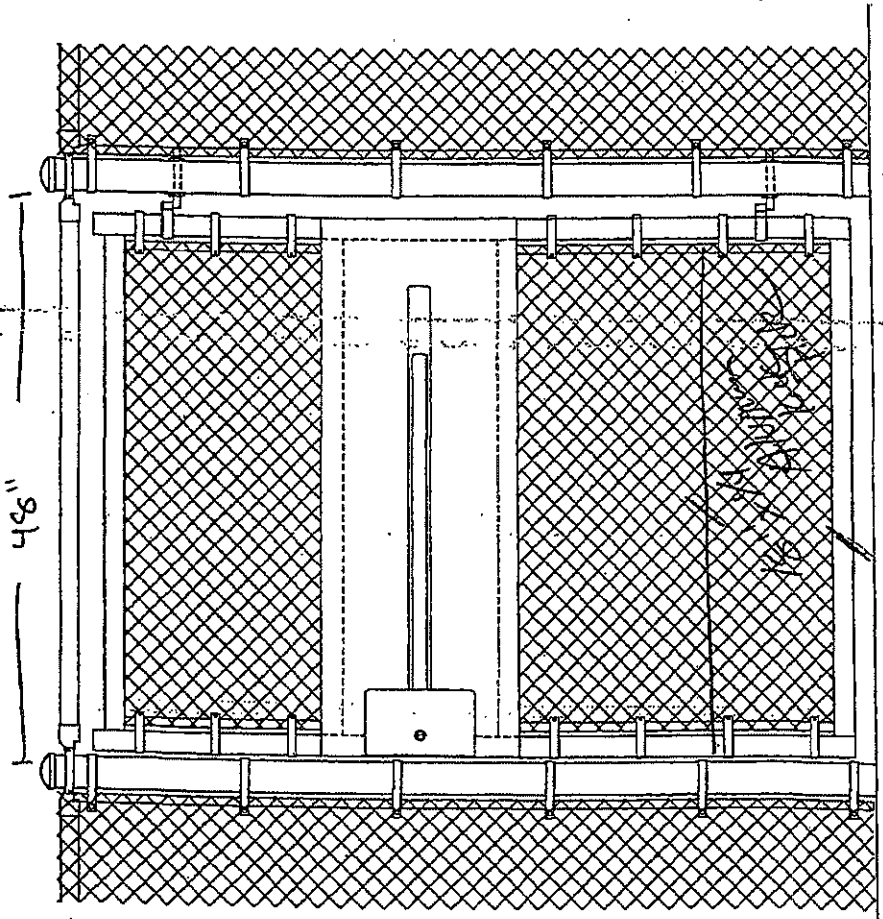


PHOENIX FENCE COMPANY

P.O. BOX 21183  
PHOENIX, AZ 85036-1183

BACK VIEW  
CHAIN LINK PANIC GATE  
(NOT TO SCALE)

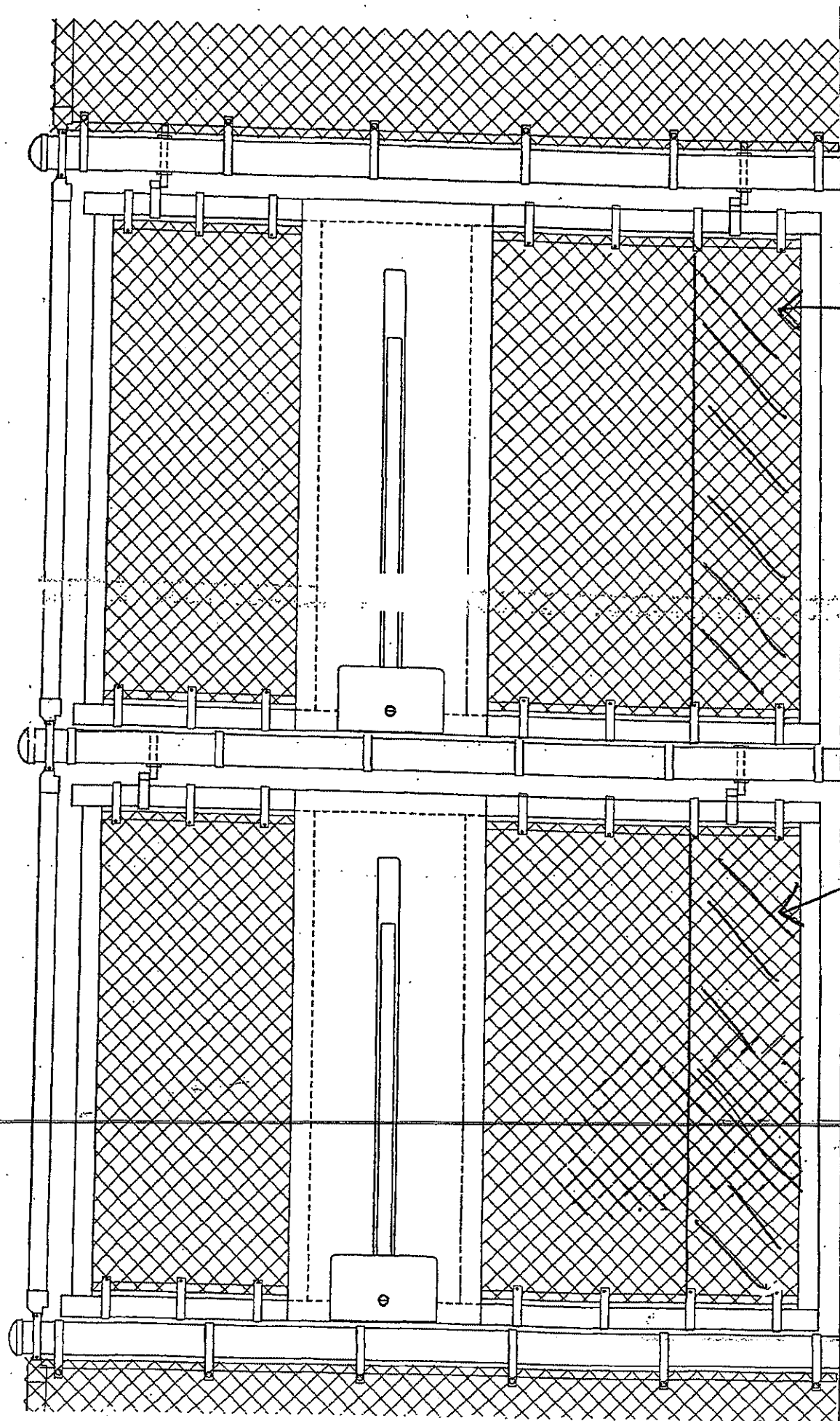
w/ Van Duprin 99 series Panic Bar



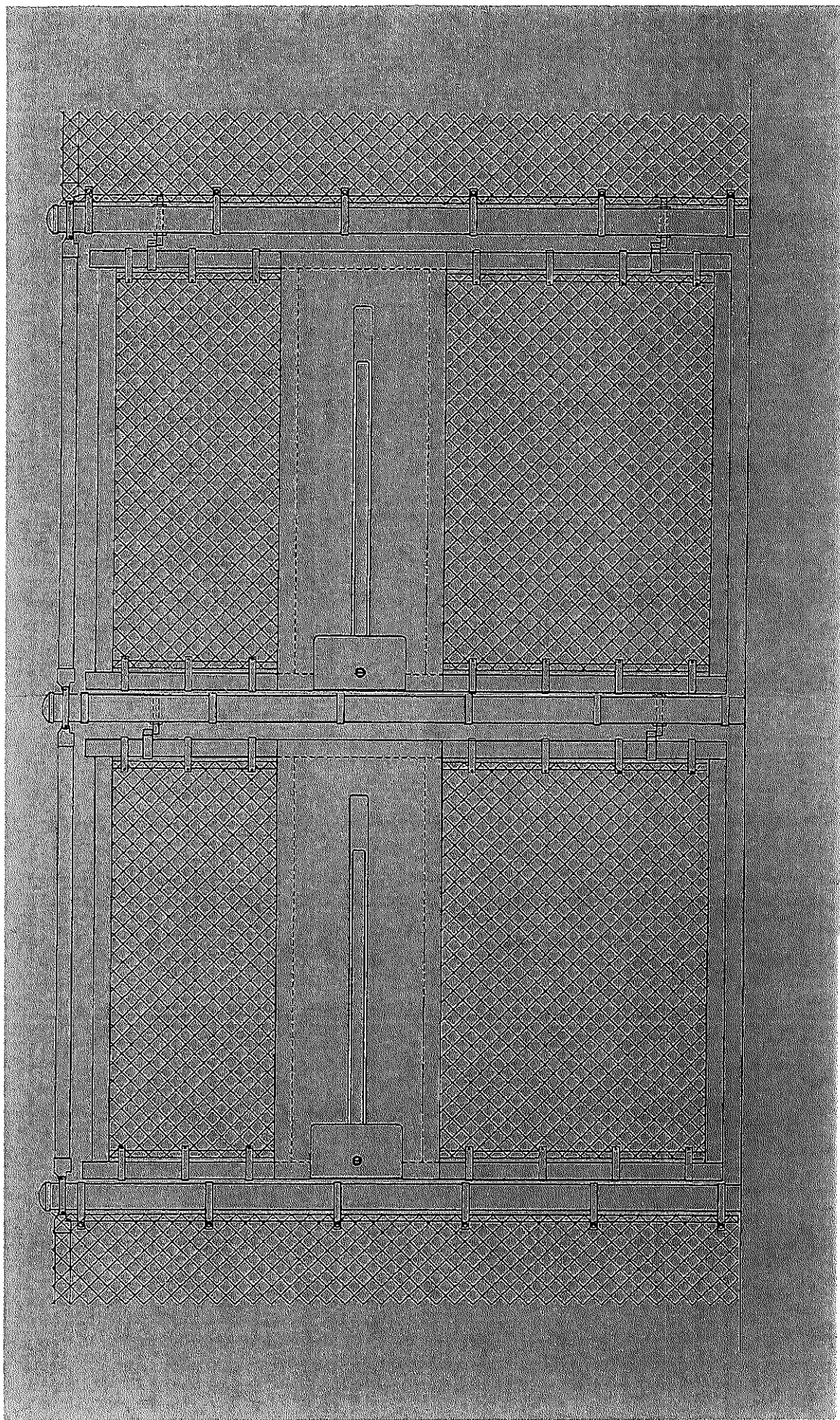
LCN overhead  
closer if required

96"

48"



1'x8 Double Panic Pedestrian Gate  
Aluminum Kick Plate



#### FEATURES:

- Requires no additional electricity to operate and saves on energy cost
- Reliability
- Non-toxic, non-radioactive
- Low-cost, easy installation
- Designed for surface mounting
- Can be used for both high-level and low-level applications
- Requires virtually no maintenance, periodic inspections, for 25+ years
- Thin, low profile construction
- Consistent, uniform illumination
- Visible at 50 feet

#### TECHNICAL INFORMATION:

Sizes: 7.5" x 13" x .075"

Letter size: .8125" stroke with 6" height

Background: Photoluminescent

Illumination: High Visibility Green

Visibility: 50 feet

Directional: 2 included (Field Applied)

Construction: Plastic photoluminescent panel/red or green lettering with black plastic frame

Durability: Explosion-proof for areas requiring explosion-proof exit signage

#### TESTS PASSED:

UL 924 Emergency Lighting and Power Equipment Listed through UL;

Meets the (IBC) International Building Code. Meets NFPA Life Safety Code 101 and

OSHA requirements; California State Fire Marshal listing #6200-1617:100; City of

Los Angeles Research Report: RR 25531 (CSI #16530); Ontario Building Material

Evaluation Commission Authorization Report BMEC #03-12-291; CCMC Evaluation

Report CCMC 13211-R National Research Council Canada

**LIFE EXPECTANCY:** 25+ years

#### POWER REQUIREMENTS:

NO additional electrical or mechanical source required

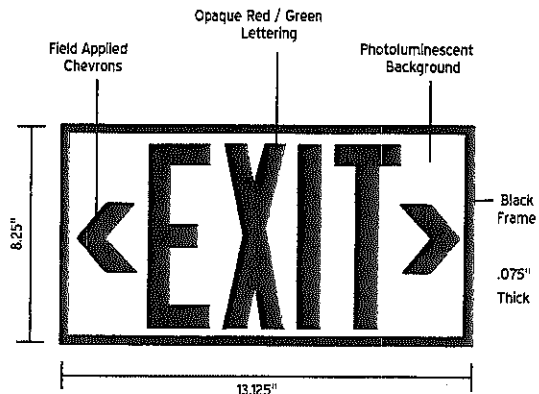
#### INSTALLATION:

Surface mounted. Before installation it must be determined that there is a minimum of 5 Fc of fluorescent, metal halide or mercury vapor light on the face(s) of the sign at all times during building occupancy.

#### APPLICATIONS:

Both high-level and low-level

Suitable for Floor Proximity Installation



\$102

Catalog #	Letter Style	Letter Color	Chevrons
7	2 - Printed Letters	1 - Red	0 - With Chevrons
	3 - Reflective Letters	2 - Green	(field applied) included
7	_____	_____	0 (fill in for model #)

Other photoluminescent components of the Glo Brite \* Safety Guidance System include: Glo Brite \* Egress Pathway Strips, Glo Brite \* Tape, Glo Brite \* Dots and Arrows, Glo Brite \* Stripe Tape, Glo Brite \* Safety Track, and Glo Brite \* Safety Signage.



Jessup Manufacturing Company

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fax: 815.385.0079

Internet: [www.globritesystem.com](http://www.globritesystem.com)

E-mail: [jmc@jessupmfg.com](mailto:jmc@jessupmfg.com)



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# CATTLE Equipment

<h2>ALLEY FRAME</h2> <p>This durable, powder-coated alley frame is designed for use with Priefert Rough Stock Panels to maintain alley strength and consistent width.</p> <p><a href="#">View Product (/Products/Cattle/Rough-Stock-Panels-and-Gates/Accessories/rsaf)</a></p>	<h2>ROLLING ALLEY GATE</h2> <p>This heavy duty rolling gate is designed for use with rank livestock. It includes a gravity safety latch to prevent accidental opening.</p> <p><a href="#">View Product (/Products/Cattle/Rough-Stock-Panels-and-Gates/Accessories/rsagr)</a></p>	<h2>SWINGING ALLEY GATE</h2> <p>This heavy duty swinging gate features a single piston lever latch and provides access and support for alleys built from Rough Stock panels.</p> <p><a href="#">View Product (/Products/Cattle/Rough-Stock-Panels-and-Gates/Accessories/rsags)</a></p>	<h2>POST CONNECTORS</h2> <p>Available in multiple connection configurations, these connector posts are designed for use with Priefert's Rough Stock Panels and Gates.</p> <p><a href="#">View Product (/Products/Cattle/Rough-Stock-Panels-and-Gates/Accessories/rscp3)</a></p>
--	--	--	---

<h2>BOW FRAME EXTENSIONS</h2> <p>Available in 1', 2', 3', 4', and 5' lengths, these extensions can be used to raise the height of a Rough Stock Bow Frame. Requires 2 per frame/gate.</p>	<h2>PALPATION CAGE ADAPTERS</h2> <p>This powder-coated adapter allows you to connect Rough Stock Panels to Priefert's Palpation Cage.</p>	<h2>GENDER ADAPTERS</h2> <p>Available in 2-way, 3-way, and 4-way connections, these adapters allow for the joining of male pin connector ends of Rough Stock Panels.</p>	<h2>OPEN SWEEP ALLEY ATTACHMENT</h2> <p>The Open Sweep Attachment to the RSO-AA create the beginning of an alley with "pass through" access for cattlemen to use for crossing through the alley.</p>
---	---	--	--



## FEATURES

- Priefert's Rough Stock Panels and Accessories are our most durable line. As the panel line of choice for the NFR and the PBR, these products are designed to handle the rankest stock.
- Rough Stock Arena Panels are commonly used to build rodeo arenas, heavy duty crowding systems, rodeo back pens, and lead up alleys to bucking chutes.
- These panels are ideal for use when building permanent structures because they are engineered to handle the high stress crowding of heavy livestock.
- The exposed ends of the tubing have been "balled" to close them, leaving a smooth, rounded ends that are animal safe. Balled ends also keep moisture from getting inside the panel to prevent rust and deterioration of your product from the inside.
- Rough Stock Arena Panels feature straight legs with sealed bottoms to prevent moisture from getting inside the panel legs.
- Rough Stock Arena Panels offer a full 6' of height to help discourage livestock from jumping on the panels, increasing the protection and security for the operator.
- Sturdy Rough Stock pin connectors are designed for the high stress crowding applications and allow for quick and secure connections to additional components.
- Rough Stock Arena Panels feature heavy duty, fully welded vertical stays to provide maximum strength and stability.
- Architectural Grade Powder Coat Finish with UV inhibitors add years of life to your investment by helping the product resist rust, scratches and fading.

## SPECIFICATIONS

- Height: 72"
- Number of Rails: 6
- 9.25" spacing between rails (center to center)
- Constructed from 2" OD 16 gauge tubing
- Architectural Grade Powder Coat Finish
- Color: Grey
- All weights are approximate

## RELATED PRODUCTS

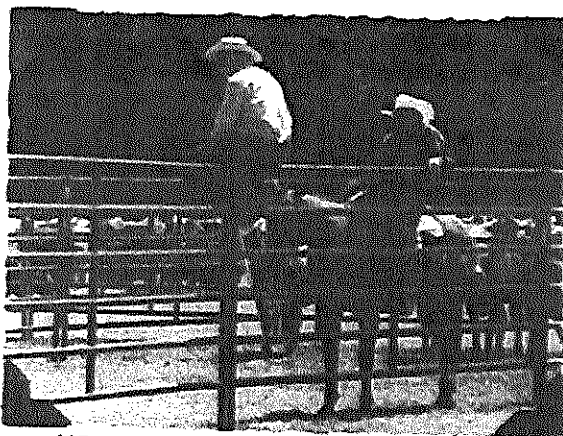


Rough Stock Panels (/Products/Cattle/Sweep-Systems/Rough-Stock-

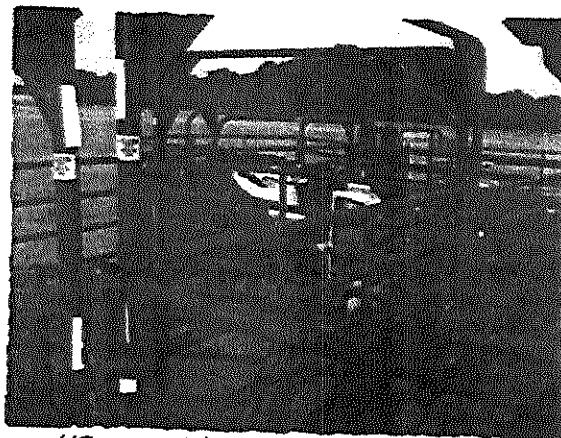
looking for a containment system with long life and ultimate durability, Priefert's Rough Stock Arena Panels can handle the job.

Item Number	Length	Weight(lbs)	# of Stays	Price
<del>RSAP06</del>	<del>6'</del>	<del>65</del>	<del>1</del>	<del>\$180</del>
<del>RSAP08</del>	<del>8'</del>	<del>77</del>	<del>1</del>	<del>\$224</del>
<del>RSAP10</del>	<del>10'</del>	<del>90</del>	<del>1</del>	<del>\$249</del>
RSAP12	12'	108	1	\$269
<del>RSAP14</del>	<del>14'</del>	<del>124</del>	<del>2</del>	<del>\$324</del>
<del>RSAP16</del>	<del>16'</del>	<del>137</del>	<del>2</del>	<del>\$349</del>

## IMAGES

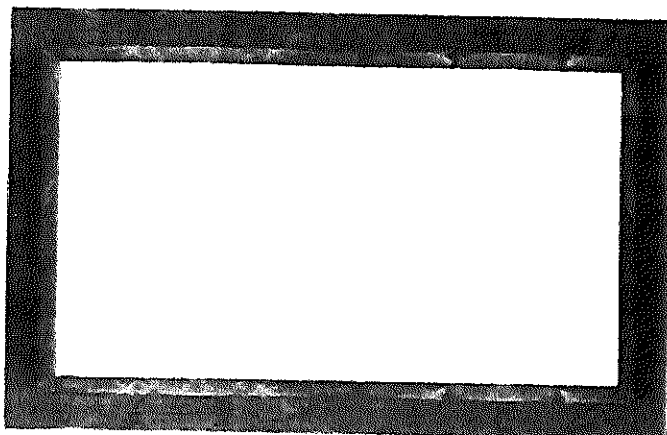


(/Content/Theme3/Images/Products  
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/pid/rsap08/pics/large/2.jpg)

## VIDEOS

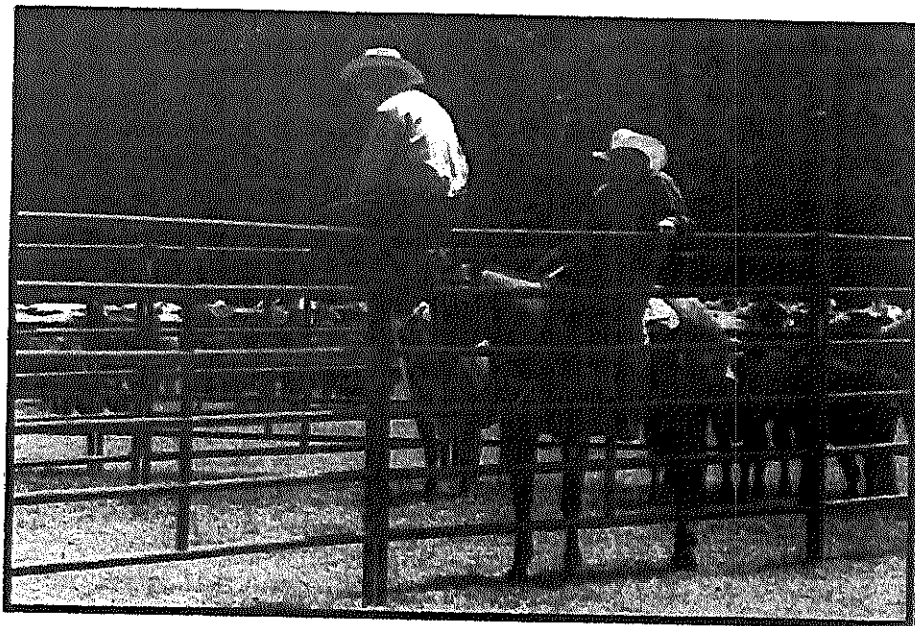


### Cattle Handling Equipment

All Priefert cattle handling equipment is built to be "Easy on the Cow, Easy on the Cowboy." Our squeeze chutes, headgates, and calf table are the best in the industry.



RSAPD06, RSAP08, RSAP10, RSAP12, RSAP14, RSAP16 ROUGH  
STOCK ARENA PANELS



Rough Stock Arena Panels are built to withstand whatever may challenge them, and are a great choice for a first class, attractive, durable arena perimeter or set of pens where 6' height and superior strength are needed. As the panel line of choice for the PRCA, the NFR, and the PBR, our Rough Stock Arena Panels are unmatched in their durability. Constructed from 2" OD 16 gauge tubing, these panels are ideal for permanent corrals because they are engineered to handle the high stress crowding of even the rankest stock. These panels stand 6' tall to discourage livestock from jumping on them, increasing the protection and security for the livestock handlers. Rough Stock Arena Panels feature straight legs with closed ends and no sharp edges. These "balled ends" are not only a safety feature, but also prevent moisture from getting inside the panel. Heavy duty, fully welded vertical stays further enhance the strength and stability of these panels. The Architectural Grade Powder Coat Finish helps the product to resist rust, scratches, and fading to add years of life to your investment. If you are

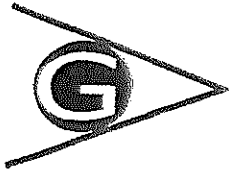


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# Grainger Consulting, Inc.

*Fire Protection / Forensic Engineering \* Code Consulting*

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## REPORT OF FINDINGS – EXITING – ARENA, PATIO & RESTAURANT

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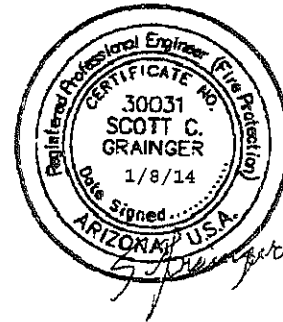
**PROJECT:** EXITING PLAN – ARENA & RESTAURANT & PATIO

**GC #2621**

**DATE:** 8 Jan. 2014, rev. 1/15/14, rev 1/23/14

**CLIENT:**

“Mo” Mohiuddin Mehmood  
Hitching Post  
2341 N Apache Trail  
Apache Jct., AZ 85119  
602.214.5635  
[dashin@mchsi.com](mailto:dashin@mchsi.com)



Exp. 3/31/14

**STATEMENT:**

Findings, conclusions, recommendations and opinions that may be presented in this report are:

1. Based on the facts and evidence known to this Engineer as of the date of this report.
2. Apply ONLY to the specific conditions noted for the project.
3. May not be used for any other project or location without the expressed written approval of this Engineer

**REVISION:**

The revisions include an occupant load for the Existing Rear Patio, corrections to the site plan to show gate size adjustments, addition of a gate, addition of min. 60" wide smooth non-slip walking surface at patio exit paths (2) and corresponding changes to occupant loads at gates, remove one gate, modify others. Arena occupancy changed to A5, an exit gate added for east side of arena.

**PURPOSE:**

Prepare an exiting plan for the proposed Arena and describe the existing exiting arrangement for the Restaurant.

**PROJECT LOCATION:**

Hitching Post  
2341 N Apache Trail  
Apache Jct., AZ 85119

**APPLICABLE CODES:**

International Code Council (ICC)

- International Building Code 2006 (IBC) as adopted by City of Apache Junction, AZ

**REFERENCES:**

International Code Council (ICC)

- International Building Code 2006 as adopted by City of Apache Junction, AZ

**PROJECT DESCRIPTION:**

The Owner/Client is adding a bull riding arena to the property as described on the attached site plan for the site. This Report of Findings describes the exiting requirements for the Arena and summarizes the existing exiting for the Restaurant.

**EXISTING CONDITIONS:**

**RESTAURANT:**

See attached Existing Floor Plan drawing sheet 2 of 2

Occupancy A2 Restaurant

No automatic fire sprinklers

Total Occupant Load (OL) 99, {IBC Table 1004.1, occupant load (sqft / occupant) for Assembly(no fixed seats) 15 net unconcentrated tables and chairs for eating area, office 100 gross, kitchen 200 gross, storage 500 gross}

3 exit discharges are provided, identified as D1, D2, D3 however only any two of the exits are required, therefore D3 capacity is not included in the exit capacity. The separation distances between the exits are such that regardless of which pair of exits are selected the separation distance requirements are met.

**REAR PATIO:**

See attached Site Plan

The rear patio area is existing

Occupancy A2 Restaurant

Total area is approximately 3,000 sf. OL = 200 {IBC Table 1004.1, occupant load (sqft / occupant) for Assembly(no fixed seats) 15 net unconcentrated tables and chairs for eating area}. The use of this OL/sf is considered very conservative. The actual occupancy is expected to be considerably less.

There is sufficient exit capacity via gates G3/4 and G2 that the occupants of the patio area do not need to exit through the restaurant building.

The occupancy of the patio does not add to the occupancy of the restaurant.

**ARENA:**

Occupancy – A5

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Total OL 345 based upon an occupant load factor of 0.2 {IBC Table 1005.1, nonsprinklered}  
There are no specific guidelines for occupancy of A5 occupancy areas for the specific use as a bull riding ring. The arena viewing area for spectators will not have seating. Table 1004.1 provides an occupant load factor for standing areas of 5 sf net (5 sf of surface / standing spectator) which is reasonable for the standing area. See the attached drawing, Existing Site Plan, Sht. 1 of 2. The arena area is described on that sheet. The standing area is assumed to be 10' deep (5 spectators) around the perimeter of the ring that will be accessible to the public which is identified on the drawing. The total area of spectator area shown of approximately 1760 sf has a corresponding occupant load of (1760 sf / 5 sf/ spectator) 345. The area behind the spectator area is available for vending space and general access by the spectators. No separate occupant load is provided for the vending area because the persons taking advantage of the vendors is assumed to be the spectators from the ring area. As can be seen from the Summary of Exiting section below, there is more than ample exiting capacity in the gates to handle more than 2x the occupant load (OL) attributed to the spectator area and half of the OL from the rear patio. Four gates for use by the general public, G1A, 1B, 2 & 5 are identified on the arena area perimeter fence for use by the general public for access and exiting purposes. Gates G3 & G4 are located on the south end of the Rear Patio area. Other gates shown that provide access to the animal containment and transfer areas and the rider use restricted areas are shown but are not identified. All such gates will be signed and identified as "WARNING, RESTRICTED AREA, NO PUBLIC ACCESS" or similar wording.  
The minimum number of exits for the arena area is 3 {IBC 1019.1} with a minimum width of any one exit of 44" for an occupancy of 345.

**SUMMARY OF EXITING REQUIREMENTS:**

**RESTAURANT:**

See the attached floor plan for the location of the doors.

The total exit capacity of the exits from the restaurant, 850, exceeds the required OL 99.

DOOR #	CLEAR WIDTH (inches)	CAPACITY (occupants)	NOTES
1	34	170	Panic hdwe required*
2	68	340	Panic hdwe not required*
3	68	340	Not a required exit, capacity not included in total
<b>Total</b>	170	510	Total occupancy is limited to 99

\*Panic hardware is not required {IBC 1008.1.8.3} when door has sign posted "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED"

The actual occupancy of the restaurant is 99 which requires a minimum width of 19.8" and two exit doors except that the minimum allowable door width is 36". The restaurant has 3 exit discharge doors with a total width of 170". The diagonal distances between the doors is such that any two sets of door assemblies will provide more than sufficient capacity and separation distance. Two exit doors are required. Doors #1 & 2 are shown on the plan as the designated exits. The restaurant has more than adequate exiting capacity.

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**REAR PATIO:**

See attached site plan for location of gates. Not all gates shown on the site plan are designated exits. Designated exit gates are those listed below.

The total exit capacity of the gates G3/4 and Arena gate 2 is 480 occupants which exceeds the maximum OL conceivable for the patio of 200. 2 exits are required because the OL exceeds 50. The gate combination of 3 / 4 and the Arena gate G2 provides the required two exits. No exit load from the restaurant is included because door D3 is not designated as an exit from the restaurant.

GATE#	CLEAR WIDTH (inches)	CAPACITY Occupants	NOTES
2	4' (96)	240	Panic hdwe provided ; See Arena
3	4' (48)	240	Panic hdwe provided*. This gate is in sequence with G4, therefore the capacity of the two gates are not additive
4	4' (48)	240	Panic hdwe provided
TOTAL	12' (144)	480	Total is for G3 and G4 (same path as G5)

**ARENA:**

See the attached site plan for location of the gates

The total capacity of Gates 1A, 1B, 2 & 5 (960) exceeds the maximum OL for the arena (345) plus half of the rear patio OL (100) for a total of 445. The exit capacity of the exits from the Arena, 960, is more than adequate.

GATE#	CLEAR WIDTH (inches)	CAPACITY Occupants	NOTES
1A	4' (48)	240	Panic hdwe provided
1B	4' (48)	240	Panic hdwe provided
2	4' (48)	240	Panic hdwe provided
5	4' (48)	240	Panic hdwe provided
TOTAL	18' (216)	960	

**SUMMARY:**

It is my professional opinion that, to a reasonable degree of engineering certainty that:

**Restaurant:**

- The existing exiting discharges from the building are more than adequate for use by the occupants of the restaurant as they exist.
- The existing exiting provisions of the restaurant meet the requirements of the IBC and ADA.

**Patio:**

- The exit gates, G2, and G3/4 shown on the site plan will provide more than adequate exit capacity for the maximum occupant load.

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- The exiting plan described in the attached site plan describes an exiting plan that meets the requirements / intent of the IBC and ADA.
- The patio provides safe and adequate exiting facilities for the occupants as described on the site plan.

Arena:

- The exit gates, G1A, 1B, 2 & 5, shown on the site plan will provide more than adequate exit capacity for the largest anticipated spectator occupant load plus the maximum possible OL from the Patio.
- The exiting plan in the attached drawing describes an exiting plan that meets the requirements / intent of the IBC and ADA . The exits are sized and spaced as though the area was a building.
- The arena provides safe and adequate exiting facilities for the spectators and the Patio occupants.

**PREPARED BY:**

Scott Grainger, PE  
Fire Protection Engineer

**ATTACHMENTS:**

Drawings

1. Sheet 1 of 2, Arena exiting plan (includes the rear patio)
2. Sheet 2 of 2, Restaurant exiting plan