



# III. B.

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690 Chesterfield Pkwy W • Chesterfield MO 63017-0760  
Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

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## Architectural Review Board Staff Report

**Project Type:** Site Development Section Plan

**Meeting Date:** May 09, 2013

**From:** Purvi Patel  
Project Planner

**Cc:** Aimee Nassif, Planning & Development Services Director

**Location:** Spirit Valley Central Dr., south of Olive Street Rd.

**Applicant:** Feeler Scheer Architects, LLC on behalf of Pets and Company

**Description:** **Spirit Valley Business Park, Lot 1A (Pets and Company):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 1.502 acre tract of land zoned "PI" Planned Industrial District located on the west side of Spirit Valley Central Drive, south of Olive Street Road.

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### **PROPOSAL SUMMARY**

The request is for a 10,296 square foot pet kennel located on the western perimeter of the Spirit Valley Business Park development. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2456. The exterior building materials will be comprised of fiber cement siding, stone veneer, vinyl windows and shutters, and aluminum cladding. The proposal includes both an asphalt shingle mansard roof and a flat TPO roof with parapets.

Associated with the Site Development Section Plan application is an application for an Ordinance Amendment to allow for the kennel use and a Lot Split application to subdivide Lot 1 into Lot 1A and Lot 1B. Both the Ordinance Amendment and Lot Split will have to be approved prior to the final approval of this Site Development Section Plan.

### **HISTORY OF SUBJECT SITE**

On June 18<sup>th</sup>, 2007, the City of Chesterfield approved Ordinance 2373, which zoned the subject site from a "NU" Non-Urban District to a "PI" Planned Industrial District. A Site Development Concept Plan was approved by the City of Chesterfield on October 2, 2007 which included 16 lots served by a loop road and providing a connection to the west for an eventual second phase of the development. Ordinance 2373 was repealed on May 5<sup>th</sup>, 2008 to add a use to permit warehouses within the development. And as

mentioned above, there currently is a request for an Ordinance Amendment to allow the kennel use in the development. Additionally, there is a request for a Lot Split for Lot 1 to subdivide it into Lot 1A and Lot 1B.



## **STAFF ANALYSIS**

### **General Requirements for Site Design:**

#### **A. Site Relationships**

The subject site is located along the northwestern perimeter of the Spirit Valley Business Park development and will be the first property to be developed along the western edge of the development. To the north of the property is Rombach Farms and to the west is a single family residence.

#### **B. Circulation System and Access**

The site proposes one access point off Spirit Valley Central Drive which will serve as a shared access drive for Lot 1A and Lot 1B. There is currently a sidewalk installed along Olive Street Road on the northern perimeter of the property and the developer will install a five foot sidewalk along the eastern perimeter of the property to tie into the existing sidewalk. This sidewalk will ultimately be tied into the property to the south and so on to provide a continuous sidewalk throughout the development.

#### **C. Topography**

The existing grade of the property is flat. Minimal changes to the existing topography are planned.

#### **D. Retaining Walls**

No retaining walls are proposed on the site.

## **General Requirements for Building Design:**

### **A. Scale**

The applicant is proposing a building of similar height and size as the adjacent structures. Elements such as residential type windows, mansard roofs, low fences and large overhangs are proposed to provide a sense of human scale.

### **B. Design**

The overall design of the building differs from other properties within the development. The design features a mansard roof which is not present on the other buildings within the development; however this does match the architecture of the single family residence to the west and the structures on the Rombach Farm property.

The site proposes to utilize a shared drive with Lot 1B which will serve the parking lot along the eastern edge of the site. There is a rain garden proposed on the western perimeter of the site and an artificial turf play area for the dogs facing Olive Street Road.

### **C. Materials and Color**

As mentioned earlier, the building will be primarily comprised of fiber cement siding with stone veneer accents; additional materials proposed are vinyl windows and shutters, and aluminum cladding. The material colors proposed match the earth tone color palette of the surrounding structures.

### **D. Landscape Design and Screening**

The proposal includes landscaping required by the City of Chesterfield Tree Preservation and Landscape Requirements Ordinance. Additionally, there is a 30' landscape buffer which is dropped to 15' further south along the western property line to buffer the residential structure to the west. The landscaping proposed along Olive Street Road matches the approved Concept Landscape Plan for the development.

The dumpster will be screened by a 6' tall enclosure which matches the fiber cement siding of the building; the transformer will be screened with landscape plantings. And the rooftop units will be located on the back of the building on a flat roof surrounded by gables, so that no equipment will be seen from the ground.

### **E. Signage**

Signage is not part of the proposal before Architectural Review Board and will be reviewed by Staff.

### **F. Lighting**

As proposed, lighting will be for utilitarian purposes and is fully shielded and has full cut off optics. All proposed light fixtures adhere to the City of Chesterfield Lighting Ordinance.

### **Use Type: Commercial and Industrial Architecture**

**Access:** The trash enclosure is located near the rear of the site away from the parking area and screened from Spirit Valley Central Drive.

**Exterior Elements:** Addressed above in the *Requirements for Building Design*.

**Landscaping and Screening:** Roof top equipment shall be screened by gable roofs and parapets; and ground equipment is proposed to be screened with landscape plantings.

**Scale:** Addressed above in the *Requirements for Building Design*.

**Site Design:** See *Section C. Materials and Colors* and *Section D. Landscape Design and Screening* for more information.

#### **DEPARTMENTAL INPUT**

A Site Development Plan had had initially reviewed and approved for Pets and Company for Lot 12D of Spirit Trade Center on November 10, 2011; followed by Amended Architectural Elevations on April 12, 2012. The project was not developed in Spirit Trade Center and the applicant is now proposing development in Spirit Valley Business Park. The current proposal is very similar to the Amended Architectural Elevations approved in 2012. Images of the previous approval will be presented at the meeting for reference.

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Comment letters have been sent to the applicant regarding Staff issues.

Staff requests action on the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 1A (Pets and Company).

#### **MOTION**

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 1A (Pets and Company), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Spirit Valley Business Park, Lot 1A (Pets and Company), to the Planning Commission with the following recommendations..."

#### Attachments

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD  
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield \_\_\_\_\_

Project Title: Pets and Company Location: 663 Spirit Valley Central Drive

Developer: Keystone Construction Architect: Feeler Scheer Architects, LLC Engineer: Stock-Civil / SSC-Structural /

**PROJECT STATISTICS:**

Size of site (in acres): 1.502 Acres Total Square Footage: 10,296 Building Height: 26'-10"

Proposed Usage: Dog Kennel

Exterior Building Materials: Fiber Cement Siding, Vinyl Windows, Vinyl Shutters, Aluminum Clading

Roof Material & Design: Asphalt Shingle Mansard Roof and Flat TPO Roof with Parapets

Screening Material & Design: Fiber Cement Siding Parapets for Mechanical units, Fiber Cement Siding for Trash Enc

Description of art or architecturally significant features (if any): N / A

**ADDITIONAL PROJECT INFORMATION:**

N / A

**Checklist:** Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.

## Architectural Statement

### I. GENERAL REQUIREMENTS FOR SITE DESIGN:

#### a. Site Relationships

- i. The building is set back from the street with green space including a fenced in dog yard. The parking has been held to the east side for safe access to the building. The building is accessed under a deep overhang which will protect the public from the elements and will provide good solar protection of the main lobby.
- ii. The proposed building is one story with a mansard roof on the east and north. This will allow sufficient site lines from the street. The parking lot lighting will maintain minimum heights with sharp cutoff so no light pollution will be produced. The dumpsters will be located in an enclosure that will match the design of the building so that it's not visible to the public.

#### b. Circulation System and Access

- i. Bicycle parking will be located under the overhang of the building; this will allow bicycles to be separated from the automobile parking. Sufficient space has been left to the east, with access both inside and outside of the building. The building is easily accessed from Spirit Valley Central Drive which allows for public transportation access. The parking will be located to the east side off of the existing curb cut which currently feeds the existing buildings. This will minimize disruption to Spirit Valley Central Drive.
- ii. The pedestrian orientation of the porch will face the east, but will be visible from the northeast also. The overhang with recessed lighting will create a visual interest. The large overhang at the porch will provide for protected open space. The existing site is flat.

### 2. GENERAL REQUIREMENTS FOR BUILDING DESIGN:

#### a. Scale

- i. Residential type windows, mansard roofs, low fences, & large overhangs provide a good sense of human scale. The overall scale will match adjacent structures.

#### b. Material and Colors

- i. Concrete Stone finish and similar window heights will also tie the surrounding structures. The façade will include stone masonry and concrete siding to coordinate with surrounding buildings.
- ii. With the use of stone masonry and concrete siding, warm organic colors will tie in nicely with surrounding buildings.
- iii. The parking lot will be asphalt to match all surrounding buildings, with entry material being concrete for contrast between the automobile and pedestrian area.

#### c. Signage

- i. Besides a small sign there will not be any advertising on the building.

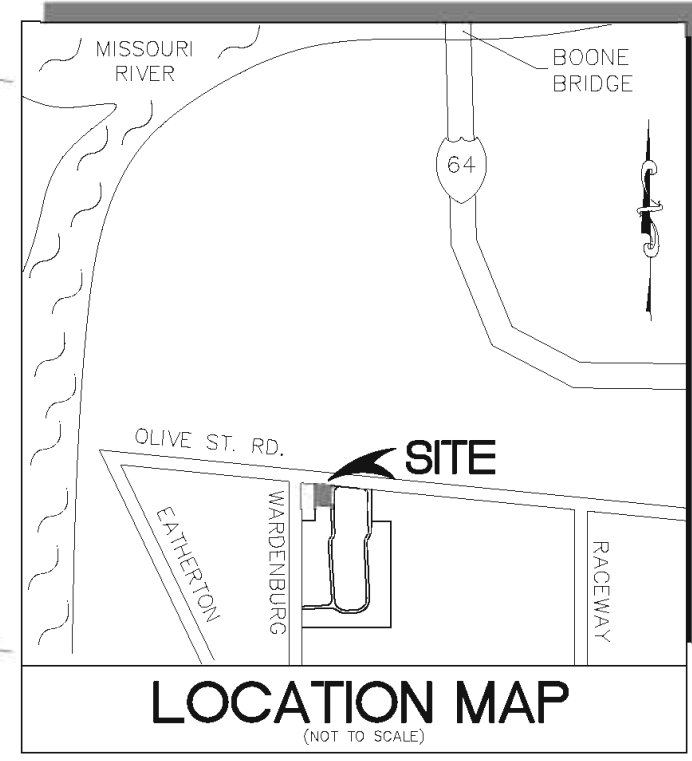
**d. Design**

- i. Large overhangs will provide for an energy efficient building with protection from the elements.
- ii. Roof top equipment will be located on the back of the building. This area will have a flat roof surrounded by gables, so no equipment will be seen from the ground.

**e. Landscape Design and Screening**

- i. The existing site is bare of trees or landscaping. The new design will include grasses, fences, trees, shrubs, and pedestrian / dog pathways. Building is set back from street with grass, trees and shrubs which will further buffer the building from the street. The fence will be dark aluminum fence.
- ii. The trash enclosure will be screened with matching building colors and materials. The electric transformer will be screened with landscape planting.





PREPARED BY:

**STOCK & ASSOCIATES**  
**Consulting Engineers, Inc.**

257 Chesterfield Business Parkway  
 St. Louis, MO 63026 PH: (636) 580-9100 FAX: (636) 580-9150  
 e-mail: general@stockinc.com  
 Web: www.stockinc.com

**PETS AND COMPANY KENNEL**  
**LOT 1A OF SPIRIT VALLEY BUSINESS PARK**  
 663 SPIRIT VALLEY CENTRAL DRIVE  
 CHESTERFIELD, MISSOURI 63005

**LOT 14**

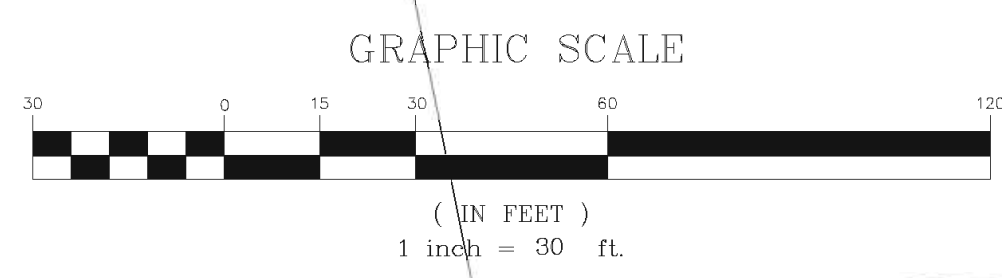
N/F  
 SPIRIT VALLEY DEVELOPMENT, LLC  
 DB: 17321 PG. 1135  
 LOC.# 17W420091  
 #658 SPIRIT VALLEY CENTRAL DR.  
 USE: VACANT LAND

**LOT 1A**  
 65,441 sq. ft.  
 OR  
 1.502 acres

**LOT 1B**  
 50,622 SQ. FT.  
 OR  
 1.162 AC±

**LOT 2**

N/F  
 PETER & ROSA HOROBEK H/W  
 DB: 7138 PG. 2492  
 LOC.# 7W420048  
 #18668 OLIVE STREET RD.  
 USE: RESIDENCE



GEORGE M. STOCK E-25116  
 CIVIL ENGINEER  
 CERTIFICATE OF AUTHORITY  
 NUMBER: 000996

- REVISIONS:
- 02/28/2013 CLIENT COMMENTS
  - 03/14/2013 CITY SUBMITTAL
  - 04/04/2013 CITY SUBMITTAL
  - 04/05/2013 MSD SUBMITTAL
  - 04/15/2013 CITY SUBMITTAL

DRAWN BY:	C.A.M.	CREATED BY:	G.M.S.
DATE:	02/28/13	JOB NO.:	213-5096
MSD. PR.		BASE MAP:	17-W4
S.C. MAP #:		HAT SURF. #:	
MSDR #:		HAT PROJECT #:	

SHEET TITLE:  
**COLOR SITE PLAN**

SHEET NO.:  
**CSP-1**





Jerald Saunders - Landscape Architect  
MO License # LA-007

Consultants:

# Pets and Company Kennel Spirit Valley Business Park

Chesterfield, Missouri

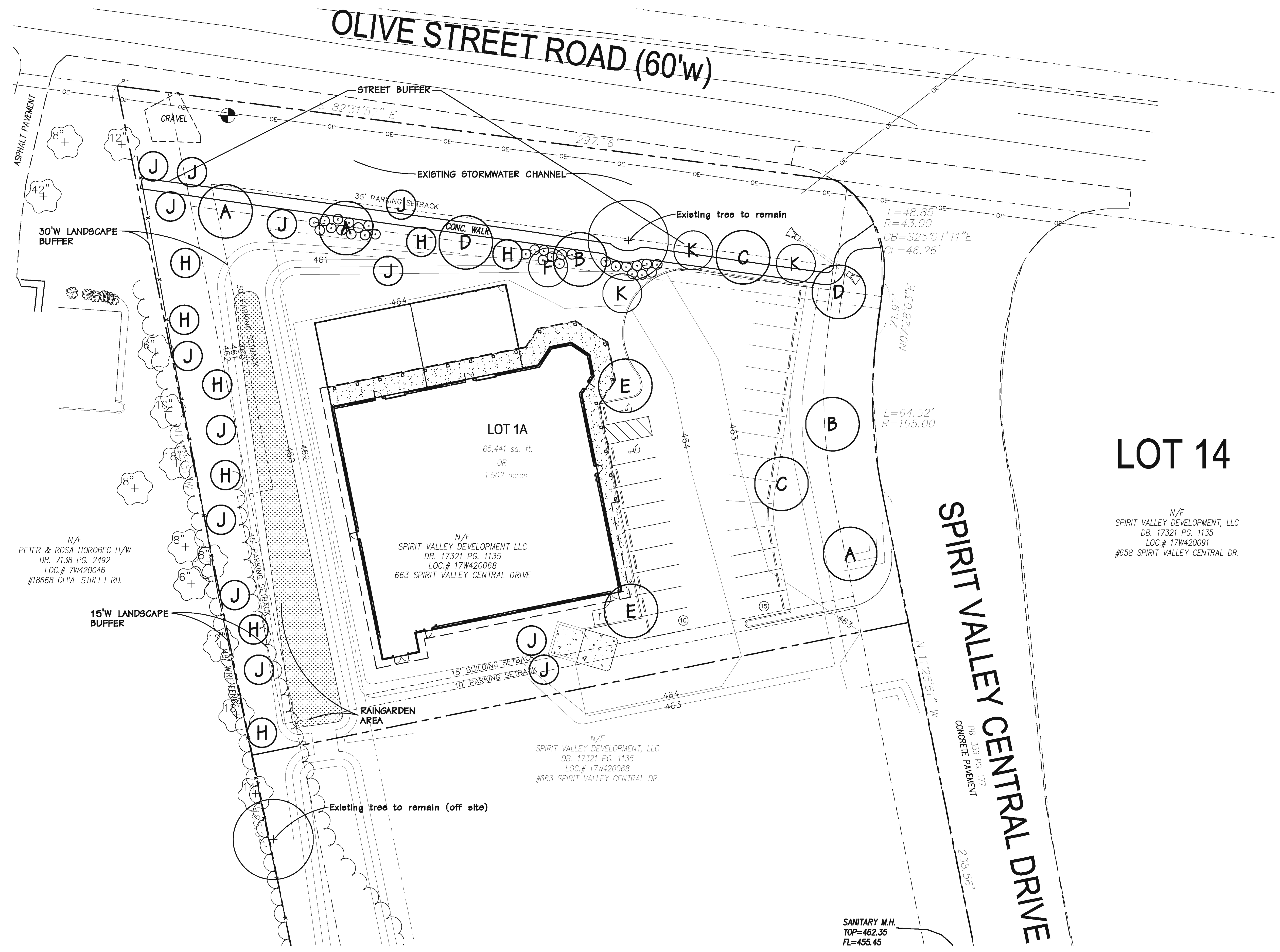
Revisions:

Date	Description	No.
04/03/13	City Comments	1
04/12/13	City Comments	2

Drawn: BR  
Checked: RG

**loomisAssociates**  
 landscapedesignplanners  
 707 Spirit Valley Central Drive, Suite 105  
 Chesterfield, Missouri 63005-1194  
 Phone: 636.566.1177  
 Email: info@loomis-associates.com

Sheet Title: **Landscape Plan**  
 Sheet No: **L-1**  
 Date: 3/12/2013  
 Job #: 013.020



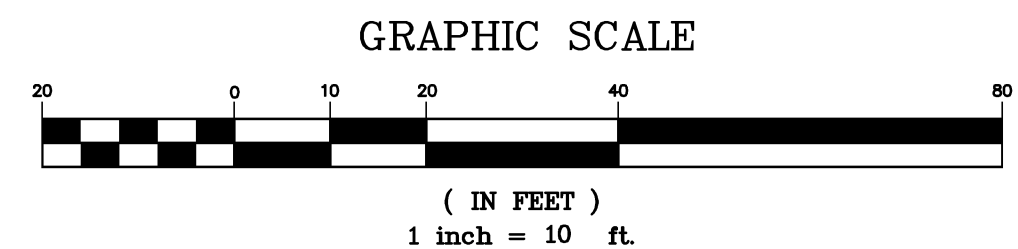
**LANDSCAPE PLAN**  
SCALE 1" = 20'

SYMBOL	QUANTITY	BOTANICAL NAME		SIZE	TYPE	MATURE HEIGHT	GROWTH RATE
		COMMON NAME	COMMON NAME				
A	3	Acer rubrum 'Sunset'	Sunset Red Maple	2 1/2"	Deciduous	45'+	Fast
B	2	Gleditsia triacanthos 'Inermis'	Thornless Honeylocust	2 1/2"	Deciduous	45'+	Fast
C	2	Tilia cordata	Littleleaf Linden	2 1/2"	Deciduous	45'+	Slow/Med
D	2	Quercus bicolor	Swamp White Oak	2 1/2"	Deciduous	45'+	Medium
E	2	Zelkova serrata	Japanese Zelkova	2 1/2"	Deciduous	45'+	Fast
F	1	Crataegus viridis 'Winter King'	Winter King Hawthorn	2 1/2"	Ornamental	20-30'	Medium
K	3	Prunus argentea 'Columnaris'	Columnar Cherry	2 1/2"	Ornamental	30-40'	Medium
H	8	Picea glauca	White Spruce	8'	Evergreen	30-40'	Medium
J	13	Pinus strobus	White Pine	8'	Evergreen	45'+	Fast
a	29	Viburnum x burkwoodii	Burkwood Viburnum	18-24"	Deciduous		

Note: All disturbed areas to be seeded.



PLAN COURTESY OF LIGHTING ASSOCIATES, 3-13-2013  
 3216 South Brentwood Blvd., Webster Groves, MO 63119  
 phone: (314) 531-3500 - fax: (314) 531-3737



DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND VOID CURRENT LAYOUT AND REQUIRE A CHANGE REQUEST AND RECALCULATION. EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL

FIXTURES MOUNTED @ 20' INCLUDING BASE LIGHT LEVEL CALCULATED ON PARKING SURFACE

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING LOT	ILLUMINANCE	Fc	3.00	8.0	0.5	6.00	16.00
SPILL LIGHT	ILLUMINANCE	Fc	0.15	3.4	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	2	S1	SINGLE	30000	1.000	GSM-AM-320-MP-MT-SL-FG



**McGraw-Edison**

DESCRIPTION: Catalog #, Project, Comments, Prepared by, Date.

SPECIFICATION FEATURES: Construction, Options, Electrical, Mounting, Energy Data.

ENERGY DATA: Table with columns for Wattage, Lumens, and Efficiency.

PHOTOMETRICS: Beam spread diagrams and footcandle tables.

ORDERING INFORMATION: Product Family, Lamp, Mount, Distribution, Color, Accessories.

**STREETLIGHT NOTE:**  
 CONTRACTOR TO MATCH EXISTING SUBDIVISION STREETLIGHTS AND VERIFY TYPE AND HEIGHT WITH CITY, PRIOR TO ORDERING AND INSTALLATION. PHOTOMETRIC SHOWN ON THIS SHEET IS ONLY FOR THE ONSITE PARKING LOT LIGHTS.

**GSS/GSM/GSL GALLERIA SQUARE**

70' 1000W Pulse Start Metal Halide High Pressure Sodium Metal Halide

ARCHITECTURAL AREA LUMINAIRE

**DARK SKY ECO**

ENERGY DATA: Table with columns for Wattage, Lumens, and Efficiency.

PHOTOMETRICS: Beam spread diagrams and footcandle tables.

**SURE-LITES**

ARCHITECTURAL EMERGENCY LIGHT STANDARD FEATURES (AEL1SD shown)

Dimensions: 18" (18.25" max), 3.75" (3.625" max), 1.75" (1.75" max)

Electrical Ratings: Table with columns for Model, Voltage, Hours, Lamp Information.

Ordering Information: Family, Mounting, SD, Accessories.

PREPARED BY: **STOCK & ASSOCIATES** Consulting Engineers, Inc.

**PETS AND COMPANY KENNEL**

LOT 1A OF SPIRIT VALLEY BUSINESS PARK

663 SPIRIT VALLEY CENTRAL DRIVE  
 CHESTERFIELD, MISSOURI 63005

STATE OF MISSOURI  
 GEORGE MICHAEL STOCK  
 PROFESSIONAL ENGINEER  
 NUMBER PE-25116  
 APR 16 2013

GEORGE M. STOCK E-25116  
 CIVIL ENGINEER  
 CERTIFICATE OF PROFESSIONAL ENGINEER  
 NUMBER: 000996

REVISIONS:

1	02/28/2013	CLIENT COMMENTS
2	03/14/2013	CITY SUBMITTAL
3	04/04/2013	CITY SUBMITTAL
4	04/05/2013	MSD SUBMITTAL
5	04/15/2013	CITY SUBMITTAL

DRAWN BY: C.A.M. CHECKED BY: G.M.S.

DATE: 02/28/13 JOB NO.: 213-5096

MSD: P# BASE MAP # 17-W4

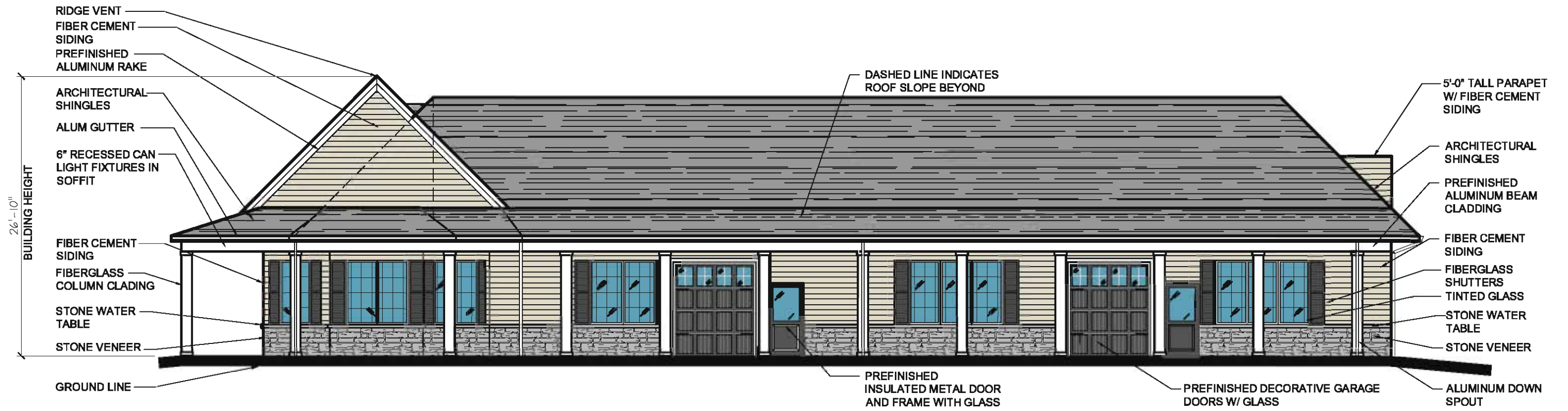
SLC: HAT # HAT SUP. #

MANR. # HAT PROJECT #

SHEET TITLE: **LIGHTING PLAN**

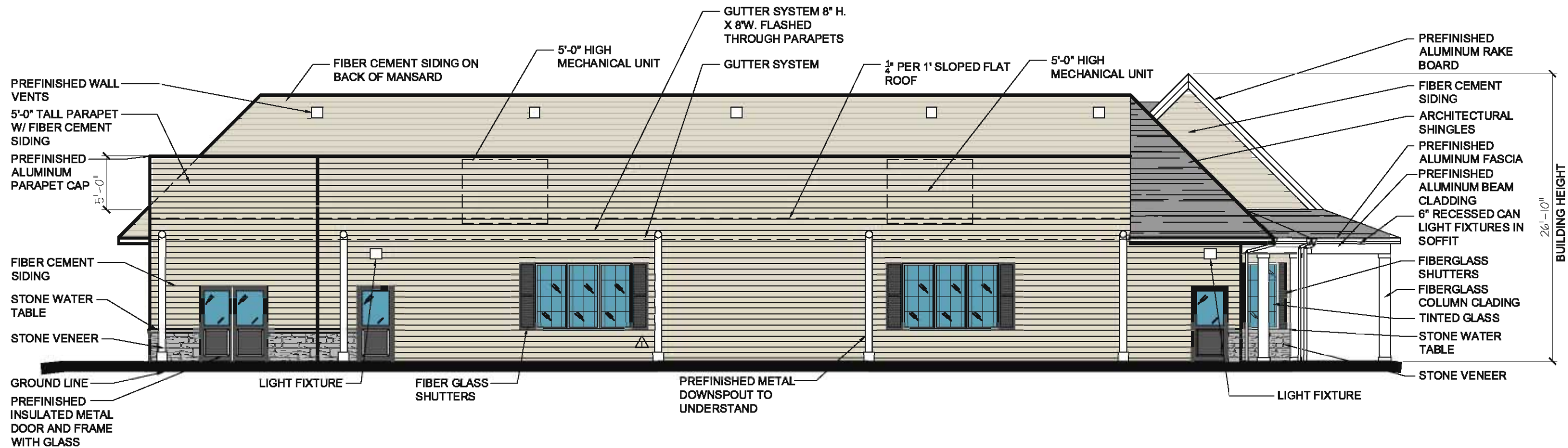
SHEET NO.: **SDSP-3**





**2 NORTH ELEVATION**  
 Scale 1/8" = 1'-0"





**3 SOUTH ELEVATION**  
 Scale: 1/8" = 1'-0"

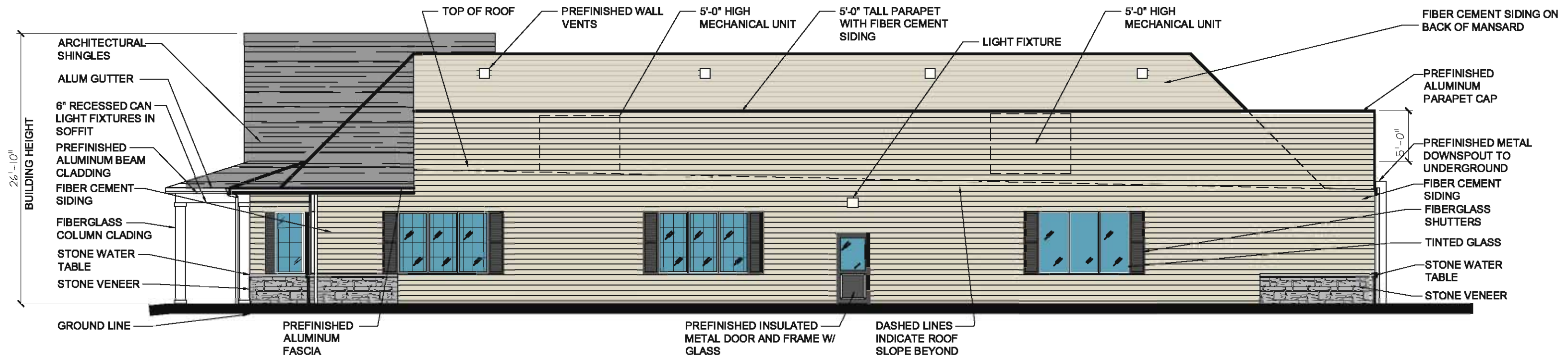






**1 EAST ELEVATION**  
 Scale 1/8" = 1'-0"



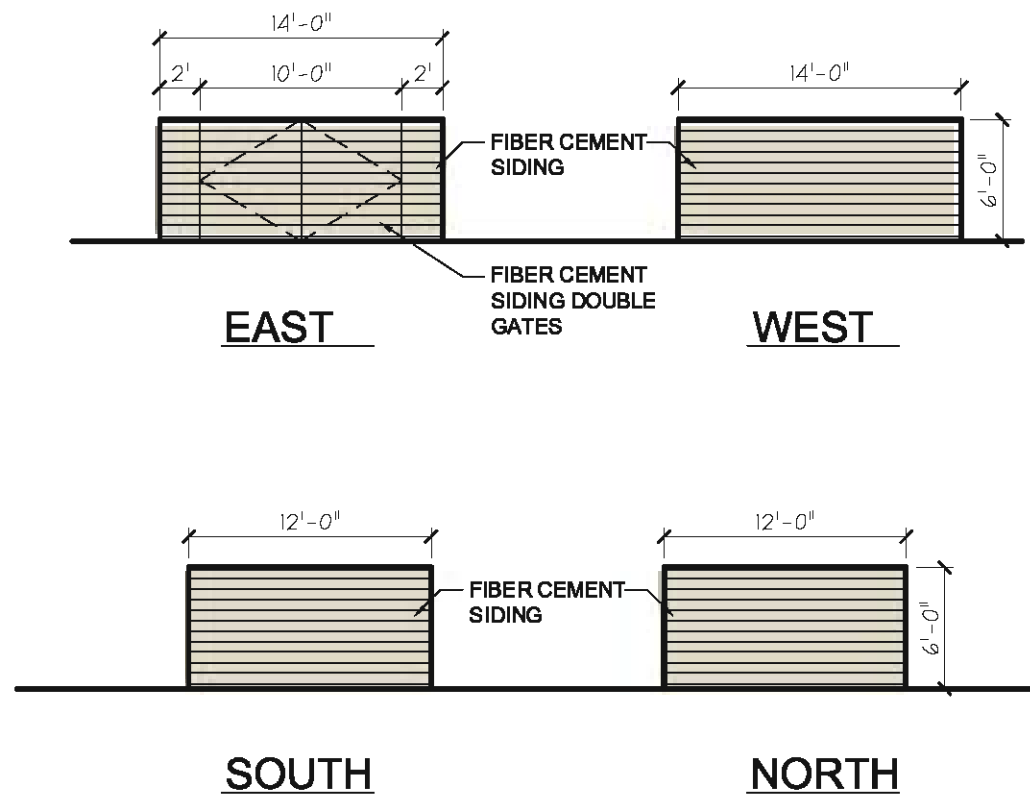


**4 WEST ELEVATION**  
Scale: 1/8" = 1'-0"

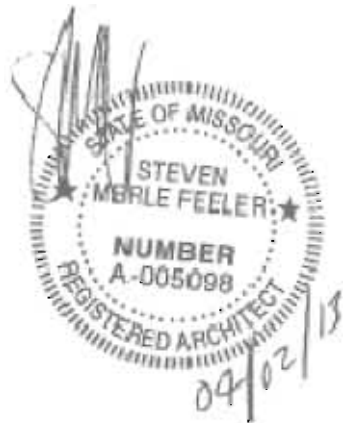








**5 TRASH ENCLOSURE ELEVATIONS**  
 Scale: 1/8" = 1'-0"





Center of Site Looking West



Center of Site Looking East



Center of Site Looking South





Center of Site Looking North



Olive St. Rd. and Valley Central Drive Looking South



Olive St Rd. Looking East



Olive Street Road Looking West

## Secure Aluminum Fence - Commercial

## Fortress Style

Secure Fortress Style Commercial Grade Aluminum Fencing is a more elegant design with a smooth top, not exposing any pickets. Fortress Style Aluminum Fencing is similar to our Cottage Style except with closer spaced pickets.

**Specs:**

Rails: 1.25" x 1.25"

Pickets: 3/4" x 3/4"

Line/End/Corner Posts: 2"sq x .060" thick

Gate Posts: 2"sq x .125" thick

Picket Spacing: 3 13/16"

Panel Height	3-Rail	Gate Post Pricing	Gate Wall Thickness	Price
48" = 4 feet	\$123.73	6' for 4' fence	.125	\$32.19
60" = 5 feet	\$165.60	7' for 5' fence	.125	\$37.71
72" = 6 feet	\$187.68	8' for 6' fence	.125	\$43.23
Flat-Top Gates	Pricing	Arch-Top Gates	Pricing	
4' height x 4' width	\$193.20	4' height x 4' width	\$397.44	
4' height x 5' width	\$224.48	4' height x 5' width	\$279.68	
5' height x 4' width	\$217.12	5' height x 4' width	\$272.32	
5' height x 5' width	\$255.76	5' height x 5' width	\$310.96	
Line, End, Corner Post	Wall Thickness		Price	
6' for 4' fence	.070		\$24.83	
7' for 5' fence	.070		\$27.04	
Welded Flanges			\$16.00 each	
Post Caps			\$2.40 each	
Ball Caps			\$6.80 each	
Hardware Pricing	Price			
Std. Wall Mounts	\$4.40			
5" Self Closing Hinge	\$10.40			
Adjustable Wall Mounts	\$6.88			
Ball Cap, Black	\$6.80			
Protector Latch - 19 1/2"	\$57.20			
Protector Latch, Jr. - 10"	\$38.40			
Standard Gravity Latch	\$4.40			
Drop Rod	\$10.40			
Deck Mounts - 2.5	\$12.96			
Post Screws (100)	\$11.20			
Butterfly Scroll	\$2.80			
Estate Scroll	\$5.60			

\*5% up charge: 6' tall 4-rail gates





#2 - BLACK ALUMINUM FENCE



## DESCRIPTION

Recessed 8 inch aperture lens downlight for one horizontal 26W double twin tube or 26/32/42W triple twin tube compact fluorescent lamp. Fixture is suitable for commercial construction and wet location listed. Insulation must be kept 3" from top and sides of housing. Universal input electronic ballast with dimming and emergency options.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### MECHANICAL

#### Frame

Boat shaped galvanized steel frame with 1/2" plaster lip accommodates ceilings up to 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

#### Mounting Brackets

Bar hanger receivers adjust 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with 1/2" EMT. Removable to facilitate installation from below the ceiling.

#### No Fuss™ Bar Hangers

Pre-installed and centered bar hanger locks to tee grid with a screwdriver or pliers. Centering marks on the bar hanger mechanism allows consistent positioning of fixtures.

### OPTICAL

#### Reflector

One piece aluminum reflector secures lens in place with integrated spring clips for a visually comfortable optic and allows for tool-less lens exchange from below the ceiling. Available with clear, diffuse, prismatic, fresnel or drop opal glass lens. Optional cross blade louver provides sharper cutoff to lamp. Self flanged standard.

- **Specular Reflectors** - Polished flange standard with white painted flange option.
- **Baffles and White Reflector** - White painted flange standard.

#### Trim Retention

Reflector is retained with two torsion springs and held tightly to the finished ceiling surface.

### ELECTRICAL

#### Junction Box

(6) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

#### Lamp Socket

4-pin G24q base accepts (1) 26W DTT or 26/32/42W TTT lamp.

#### Socket Housing

Galvanized steel socket housing attached securely to reflector with captive thumbscrew. Vents provide effective lamp thermal management.

#### Control Gear

Universal 120V - 277V UNV or 347V input electronic ballast for 26/32/42W compact fluorescent lamp.

#### Emergency Battery Pack

REM - Remote emergency test switch. Housing includes 120V/277V, 60Hz dual-tap battery pack provides 90 minutes of emergency illumination. Long life maintenance free sealed nickel cadmium batteries recharge fully in 24 hours. REM configuration includes prewired and attached remote test switch plate and indicator light. REM option is the standard emergency configuration, and is compatible with all standard reflector options, ordered separately.

IEM - Integral emergency test switch. Housing includes 120V/277V, 60Hz dual-tap battery pack provides 90 minutes of emergency illumination. Long life maintenance free sealed nickel cadmium batteries recharge fully in 24 hours. IEM configuration includes a prewired integral

emergency test switch and indicator light that are both accessible inside the reflector. The IEM option requires "EM" designated reflectors only, ordered separately.

Emergency Battery Pack - Average Lamp Lumen Ratings

REM option: 26W 425lm, 32W 600lm, 42W 750lm

IEM option: 26W 810lm, 32W 910lm, 42W 1040lm

(Note: average lamp lumens are based upon REM and IEM manufacturer ratings. Delivered lumens depend upon trim; refer to trim photometry to factor delivered lumens).

#### Code Compliance

- Thermally protected and cULus listed for wet locations.
- IP44 rated for lens trims
- NFPA Life Safety (Emergency Battery Pack)
- EMI/RFI per FCC Title 47 CFR, Part 18, non consumer limits.
- Peel down wattage label from 42W to 32W and 26W. Allows de-rating to set max. relamp wattage per project specifications (multi-wattage housings only).
- DR - De-rated label housings are wattage specific for 26/32W or 26W.
- High efficacy luminaire may be used to meet IECC, ASHRAE, and Title 24 commercial standards.



**PD8H142  
82H**

**(1) 26W DTT  
26/32/42W TTT**

**Compact Fluorescent**

**8-Inch Aperture  
Lens Downlight**

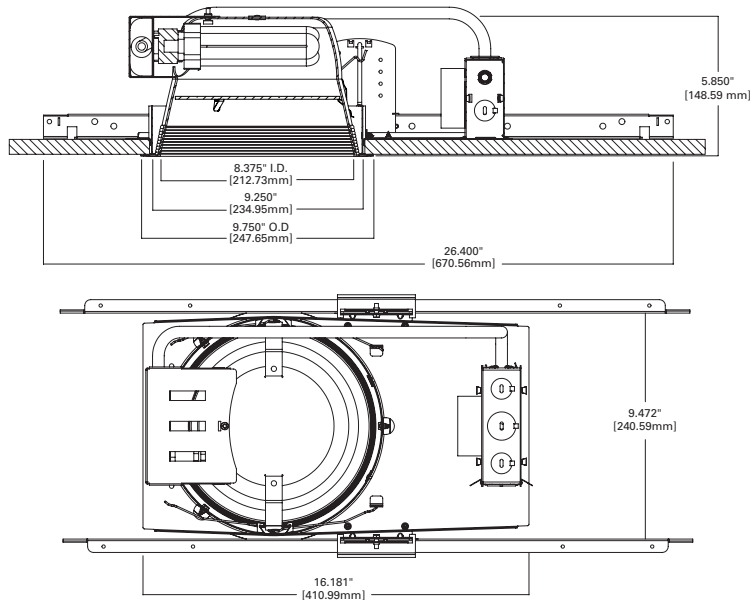
**New Construction or  
Remodel  
Non-IC**

## ENERGY DATA

PD8H142E, PD8CPH142E	
MIN. STARTING TEMP -5°F / -20°C	SOUND RATING CLASS A
EMI/RFI EMISSIONS FCC 47CFR PART 18 NON-CONSUMER LIMITS	
INPUT FREQUENCY 50/60 HZ	POWER FACTOR > 0.98
THD < 10%	INPUT VOLTAGE 120V - 277V ±10%
CREST FACTOR < 1.7	
OPERATING FREQUENCY > 40kHz	UL LISTED CLASS P, TYPE 1 OUTDOOR, CSA OR C/UL CERTIFIED
CFQ26W/G24Q	Input Power 28W
	Input Current 0.50A @ 120V
	Input Current 0.22A @ 277V
	Ballast factor 1.00
CFTR26W/GX24Q	Input Power 28W
	Input Current 0.50A @ 120V
	Input Current 0.22A @ 277V
	Ballast factor 1.00
CFTR32W/GX24Q	Input Power 35W
	Input Current 0.50A @ 120V
	Input Current 0.22A @ 277V
	Ballast factor .98
CFTR42W/GX24Q	Input Power 45W
	Input Current 0.50A @ 120V
	Input Current 0.22A @ 277V
	Ballast factor .96

PD8H1423E	
MIN. STARTING TEMP 0°F / -18°C	SOUND RATING CLASS A
EMI/RFI EMISSIONS FCC 47CFR PART 18 NON-CONSUMER LIMITS	
INPUT FREQUENCY 60 HZ	POWER FACTOR > 0.98
THD < 10%	INPUT VOLTAGE 347VAC ±10%
OPERATING FREQUENCY 50-60 kHz	cULUS LISTED CLASS P, TYPE 1 OUTDOOR, TYPE CC
CFQ26W/G24Q	Input Power 31W
	Input Current 0.09A @ 347V
	Ballast factor 1.02
	Crest factor < 1.6
CFTR26W/GX24Q	Input Power 31W
	Input Current 0.09A @ 347V
	Ballast factor 1.02
	Crest factor < 1.6
CFTR32W/GX24Q	Input Power 36W
	Input Current 0.11A @ 347V
	Ballast factor 0.98
	Crest factor < 1.5
CFTR42W/GX24Q	Input Power 50W
	Input Current 0.15A @ 347V
	Ballast factor 1.00
	Crest factor < 1.5

## DIMENSIONS





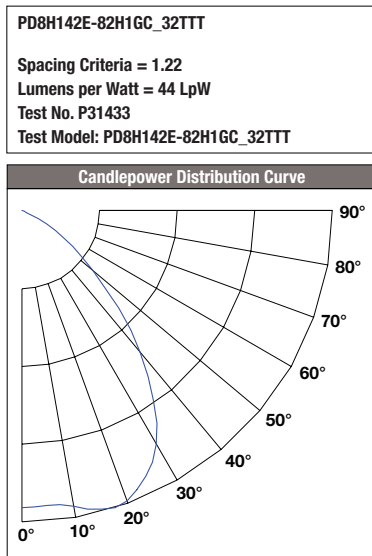
## ORDERING INFORMATION

SAMPLE NUMBER: PD8H142E 82H1GC

Order housing, reflector and lamp separately for a complete luminaire.

<p><b>Housing</b> Multi-Wattage <b>PD8H142</b> = 8 Inch horizontal (1) 26/32/42W DTT/TTT CFL <b>PD8CPH142</b> = 8 Inch horizontal (1) 26/32/42W DTT/TTT CFL, CCEA listed (Chicago Plenum)</p> <p><b>De-Rated Label</b> <b>PD8H132</b> = 8 Inch horizontal (1) 26/32W DTT/TTT CFL <b>PD8CPH132</b> = 8 Inch horizontal (1) 26/32W DTT/TTT CFL, CCEA listed (Chicago Plenum)</p> <p><b>PD8H126</b> = 8 Inch horizontal (1) 26W DTT/TTT CFL <b>PD8CPH126</b> = 8 Inch horizontal (1) 26W DTT/TTT CFL, CCEA listed (Chicago Plenum)</p>	<p><b>Ballast Option</b> <b>E</b> = 120V - 277V 50/60Hz UNV <b>REM</b> = 120V/277V 60Hz dual-tap emergency battery ballast with remote test switch plate <b>3E</b> = 347V, 50/60Hz <b>1DMARKX</b> = 5% two-wire (26/32/42W) dimming, 120V <b>2DMARKX</b> = 5% two-wire (26/32/42W) dimming, 277V <b>EDMARK7</b> = 5% 0-10V discrete two-wire (26/32/42W) dimming, 120-277V <b>1DMARKXREM</b> = 5% two-wire (26/32/42W) dimming, 120V; with REM emergency option <b>2DMARKXREM</b> = 5% two-wire (26/32/42W) dimming, 277V; with REM emergency option <b>EDMARK7REM</b> = 5% 0-10V discrete two-wire (26/32/42W) dimming, 120-277V; with REM emergency option</p> <p><b>Integral Emergency Ballast Option</b> <b>IEM</b> = 120/277V 60Hz dual-tap, Integral Emergency battery ballast with test switch through reflector* <b>1DMARKXIEM</b> = 5% two-wire (26/32/42W) dimming, 120V; with IEM emergency option* <b>2DMARKXIEM</b> = 5% two-wire (26/32/42W) dimming, 277V; with IEM emergency option* <b>EDMARK7IEM</b> = 5% 0-10V discrete two-wire (26/32/42W) dimming, 120-277V; with IEM emergency option* *Requires "EM" reflectors only, ordered separately</p>	<p><b>Reflector</b> <b>82H</b> = 8" horizontal <b>82HEM</b> = 8" Horizontal, Emergency (required with IEM ballast option)</p>	<p><b>Regressed Lens Option</b> <b>1G</b>=Prismatic Glass <b>2G</b>=Diffuse Glass <b>3G</b>=Clear Glass <b>4G</b>=Fresnel Glass</p> <p><b>Finish Option</b> <b>C</b>=Specular Clear <b>G</b>=Specular Gold <b>H</b>=Semi Specular Clear <b>W</b>=White (White Flange) <b>BB</b> = Black baffle (White Flange) <b>WB</b> = White baffle (White Flange)</p>	<p><b>Flange Option</b> <b>Blank</b>=Polished Flange (C, G, H) <b>Blank</b>=White Flange (W, BB, WB) <b>WF</b>=White Flange (C, G, H)</p>	<p><b>Accessories</b> <b>HB128APK</b> = L channel hanger bar, 26", 'No-Fuss', pair (replacement) <b>RMB22</b> = 22" long wood joist mounting bars</p>
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## PHOTOMETRY



Candela Distribution	
Degrees Vertical	Candela
0*	782
5	789
15	798
25	722
35	552
45	359
55	166
65	39
75	1
85	0
90	0

\*CBCP

Luminance	
(Average Candela/M <sup>2</sup> )	
Degree	Avg. 0° Luminance
45	11744
55	6285
65	1818
75	63
85	0

Cone of Light Footcandles			
Distance to Illuminated Plane	Initial Nadir Footcandles	Beam (ft.)	
		L Length	W Width
5.5'	26	6.5	7.1
7'	16	8.3	9
8'	12	9.5	10.3
9'	10	10.6	11.6
10'	8	11.8	12.9
12'	5	14.2	15.5
14'	4	16.5	18

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot. Footcandle values are initial, apply appropriate light loss factors where necessary.

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Fixture
0-30	640.21	26.70	44.20
0-40	990.80	41.30	68.40
0-60	1398.25	58.30	96.60
0-90	1447.59	60.30	100.00

Note: Specifications and Dimensions subject to change without notice.

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