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

Architectural Review Board Staff Report

Project Type: Site Development Section Plan

Meeting Date: July 10, 2014

From: John Boyer
Senior Planner

Location: 16023 Swingley Ridge Rd.

Applicant: ACI Boland Architects and Stock & Associates Consulting Engineers, Inc.

Description: **Herman Stemme Office Park (MiTek USA, Inc.) SDSP:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 6.06 acre tract of land zoned "C-8" Planned Commercial District located on the north of the intersection of Swingley Ridge Road and Conway Road. (18S240498).

PROPOSAL SUMMARY

The request is for construction of a 99,000 square foot three storied commercial office building with accessory parking located in the rear of the property. The subject site is zoned "C-8" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2794.

ZONING HISTORY OF SUBJECT SITE

The subject site was originally zoned "C-8" Planned Commercial District by St. Louis County in 1978 under Ordinance 8801. In the decades since, the site-specific governing ordinance has been amended several times for changes to permitted uses, building heights, site access, and setback requirements. The most recent ordinance amendment occurred in May of 2014, when the City of Chesterfield approved Ordinance 2794 which removed the restriction on limits of individual office buildings to 50,000 gross square feet, while still leaving a cap on the overall square footage of the development.



Figure 1: Site Photo

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The proposed structure is to be situated along the frontage of Swingley Ridge Road with accessory parking to be placed within the rear of the lot. With the placement of the structure along the frontage of Swingley Ridge Road, the proposed building would be consistent with adjacent development patterns.

B. Circulation System and Access

Proposed access to the site would utilize two new access points east and west of the proposed office building. These new access points would line up with existing terminus of Conway Road (west access point) and across from the existing access point for the commercial structure south (east access point). By lining up proposed access with existing traffic points reduces traffic conflicts.

Sidewalk extensions from the rear parking area and building to a proposed sidewalk along the frontage of Swingley Ridge Road are proposed in order to link these areas to public access points and increase accessibility of the proposed office building. Additionally, a proposed walking trail around the perimeter of the site is planned.

C. Topography

Subject site is relatively flat with gentle slopes throughout the property.

D. Retaining Walls

One retaining wall is planned along the eastern portion of the property. The wall is a plantable wall which incorporates modular masonry block and landscaping into the design. This wall is flanked by the above mentioned walking trail.



Figure 2: North Elevation Rendering

General Requirements for Building Design:

A. Scale, Design, Materials and Color

The proposed three-story structure is consistent in height and scale with other stand-alone commercial structures in the area. Main access to the structure is provided on the northern elevation near the proposed parking field. Since the main access is on the rear (north elevation) of the structure, the Applicant is proposing an elevation which considerably matches the northern elevation for the southern elevation signifying the equal importance of both frontages. This architectural detail provides additional curb appeal from Swingley Ridge Road, while not appearing as a rear elevation to the casual observer. Mechanical equipment is planned to be roof mounted and will be screened by a parapet.

Materials planned for this proposal include a brick and stone veneer, pre-finished metal panels with an aluminum and glass window system on all four sides. The color of the building will be consistent with the other buildings in the vicinity.

B. Landscape Design and Screening

All landscaping as identified on the submitted Landscape Plan is compliant with the Tree Preservation and Landscape Requirements of the City of Chesterfield. On the southern elevation, a fountain/water feature with extensive planting surrounding the feature is planned within the required 30 foot landscape buffer. While not specifically identified as an item allowed within the required buffer, the addition of this water feature meets the intent and purpose of items allowed within a required landscape buffer and has been approved administratively by Staff.

In addition to the proposed landscaping, the Applicant has indicated on the Landscape Plan that existing landscaping will be also utilized on the site via the street trees along Swingley Ridge Road.

A trash enclosure is planned with this proposed construction. The enclosure, per the Statement of Design, will match the material and color of the proposed main structure.



Figure 3: South Elevation Rendering

C. Lighting

Lighting is planned in association with this development consisting of a mixture of parking area lighting made up of standard pole lights, bollard lighting, recessed lighting within the entrance canopy and building/ground mounted accent lighting. Per the applicant's description, six FLD2 building mounted accent lights are planned behind each cantilevered curtain wall projection on the south elevation on the second and third floor as well as the roof (see central glass area on Figure 3 above for reference). These fixtures will shine back against the face highlighting the outline of the cantilevered curtain wall projections.

Additional building accent lighting includes seven planned ground mounted WW70 lights which will be tilted towards the structure and light-up the masonry columns along the southern elevation. Another three WW70 lights are planned on the north elevation to provide lighting for the planned three flagpoles (see page 3 Figure 2 for flag pole location). Figure 4 to the right of this page identifies this proposed light. While this lighting is compliant with foot-candle levels of the City of Chesterfield per the provided photometric plan, Staff has concerns over the amount and direction of this proposed light to insure no light trespass. No information has been submitted at this point of the review on the height of illumination, or height the lighting extends up the structure, for these ground lights. Staff will continue to review these lights versus City of Chesterfield code to insure compliance prior to Planning Commission review.



Figure 4: Ground Mounted WW70 Light

Other accent lighting planned by the applicant includes linear fluorescent tubular luminaires, listed as LT COL, and bollard lighting, BLD on the provided lighting plan, which are planed near the entrance to the building on the north elevation and within the sidewalk area in the middle of the parking area respectively. The intent of this lighting is providing minimal area lighting and to architecturally accent the development and walking areas. The provided photometric plan indicates these lights are compliant with City of Chesterfield foot-candle standards.

Details on planned site lighting are included for the Architectural Review Board's review and comment. While all site lighting is included for the ARB's review, accent lighting is ultimately required to be approved by the Planning Commission as directed by the City Lighting standards. Staff is continuing to review proposed lighting in accordance with the City's lighting standards.

DEPARTMENTAL INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on this submittal for Herman Stemme Office Park (MiTek USA, Inc.).

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 Herman Stemme Office Park (MiTek USA, Inc.), 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 Herman Stemme Office Park (MiTek USA, Inc.), 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 May 21, 2014

Project Title: MiTek Office Building Location: 16023 Swingley Ridge Road

Developer: MiTek Industries, Inc. Architect: ACI Boland Architects Engineer: Stock & Associates

PROJECT STATISTICS:

Size of site (in acres): 6.06 Total Square Footage: 99,000 Building Height: 60'-0"

Proposed Usage: Office Building

Exterior Building Materials: Brick & Stone Veneer, Glass in Prefinished Storefront & Composite Metal Panels.

Roof Material & Design: Flat Roof with single ply roofing membrane

Screening Material & Design: Prefinished Metal Panels

Description of art or architecturally significant features (if any): Glass in Prefinished Curtainwall System at north south elevations and at east and west stair elements.

ADDITIONAL PROJECT INFORMATION:

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.



May 23, 2014

Mr. John Boyer
Senior Planner
Planning and Development Services Director
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, Missouri 63005

ACI BOLAND ARCHITECTS – ST. LOUIS
11477 Olde Cabin Road, Suite 100
St. Louis, Missouri 63141
T.314.991.9993
F.314.991.8878

Re: MiTek Office Building
16023 Swingley Ridge Road
Chesterfield, Missouri 63017
ACI Boland Project No. 214035

Dear Mr. Boyer:

We are pleased to submit the following project to the City of Chesterfield Architectural Review Board for their consideration. We have included the Statement of Design listed below regarding how we plan to address each of the pertinent design standards as part of the design submittal requirements.

STATEMENT OF DESIGN INTENT

General Requirements for Site Design

Site Relationship

This new development will be located at 16023 Swingley Ridge Road on the currently vacant piece of property. The design of the building is complementary to the other buildings within the development and incorporates an outdoor terrace with an overhead trellis on the south side of the building. The terrace includes a water feature surrounding it on three sides. The terrace and water feature will provide the occupants with an opportunity to enjoy the outdoor environment while at the building.

Circulation System and Access

The building will be located on the southern edge of the site with access drives at the southeast and southwest corners of the site. These access drives will align with the existing access drives for the properties across the street. As you approach the building from the street, all of the parking spaces are located behind the building. The accessible parking spaces are located directly in front of the building allowing for easy and safe access to the building. There are reserved parking spaces for Low Emitting and Fuel Efficient Vehicles as well as Car Pool parking spaces directly in front of the building. The remaining parking area is located toward the north side of the property. There is a pedestrian sidewalk running from the building toward the north through the site to provide safe passage of the pedestrians from the parking lot into the building. There will also be a bicycle parking area and a walking path around the perimeter of

May 23, 2014
Mr. John Boyer
City of Chesterfield
ACI Boland Project No. 214035
Page 2

the site to encourage physical fitness. The building is located within approximately 1/4 mile from a public transportation bus stop served by two separate bus routes.

Topography

The currently vacant existing site has a gentle slope as shown on the site topography plan. The majority of the street trees along Swingley Ridge Road will be preserved as shown on the site landscape plan.

Retaining Walls

There will be a retaining wall along the east side of the site as shown. The retaining wall has been held back from the property line to allow the pedestrian walking path to be closer to the property line. The retaining wall will be constructed of modular masonry retaining wall units.

General Requirements for Building Design

Scale

This three story office building has been designed to be complementary to the existing buildings within the office park development. There will be a canopy at the building entry which is on the north side of the building. The canopy will help to reduce the scale of the building as it is approached as well as provide protection from the outdoor weather conditions.

Design

The office building façade has been designed to include brick and stone veneer, prefinished metal panels with an aluminum and glass window system. The center of the building is the focal point with large prefinished aluminum and glass curtainwall system. The stairs at each end of the building provide a differentiation to the masonry rhythm of the punched windows while complementing the curved curtain walls that dominate the north and south building elevations. All four faces of the building are coordinated in regards to the material use and detailing. The building also incorporates parapet walls and prefinished metal panels to screen the rooftop mechanical equipment from view. The building will be designed as a USGBC LEED Certified energy efficient building.

Materials and Colors

The exterior materials used in the building design will be brick and stone veneer, prefinished metal panels with an aluminum and glass window system around all four sides of the building. There will also be prefinished aluminum composite panels at the entry element and the exterior canopies. The windows will be insulated low-e glass in prefinished aluminum frames. The materials and color palette of the building will be complementary to the other buildings within the office park development.

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Mr. John Boyer
City of Chesterfield
ACI Boland Project No. 214035
Page 3

Please refer to the exterior architectural rendering. We will also bring the material samples to the Architectural Review Board meeting.

Landscape Design and Screening

The site has been carefully landscaped with trees and other shrubs/plantings to compliment the scale and reduce the impact of the building and parking area. We have also considered the existing adjacent sites in our selections of plant material to create a consistent look within the development. There will be landscaped areas near the front entry to create an inviting plaza area. Landscaping has also been provided for the Metropolitan Sewer District's required water quality sand bed filter areas on the site and to compliment the entire development.

Please refer to the submitted Landscape Plan for more detailed information.

The building's trash container will be screened from vision by the use of a brick veneer enclosure adjacent to the building. The enclosure will be constructed with matching materials to provide a consistent appearance. The enclosure will also have composite wood sight-proof swing gates.

Signage

We understand that signage review is not part of this process and will be reviewed at a later date. Any signage submitted at that time will be designed to meet the City of Chesterfield Code.

Lighting

We understand that site lighting is not part of the Architectural Review Board submittal and is reviewed through a separate process. We have however included a Site Lighting Plan and fixture cut-sheet for your reference.

We are please to be continuing our relationship with the City of Chesterfield through the development of your wonderful city. If you should need any additional information or have questions, please feel free to give me a call.

Respectfully Submitted,
ACI Boland Architects

A handwritten signature in black ink that reads "Randy Clawson". The signature is written in a cursive, flowing style.

Randy Clawson, LEED AP
Associate / Architect

Attachments: City of Chesterfield – Architectural Review Board Project Statistics and Checklist



NORTH ELEVATION



MiTek Corporate Headquarters

CHESTERFIELD, MISSOURI

11477 Glide Cabin Road | Suite 100
St. Louis, Missouri 63143
T: 314.991.9998
aciboland.com





SOUTH ELEVATION



MiTek Corporate Headquarters

CHESTERFIELD, MISSOURI

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St. Louis, Missouri 63141
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aciboland.com



214035 - 05.23.2014



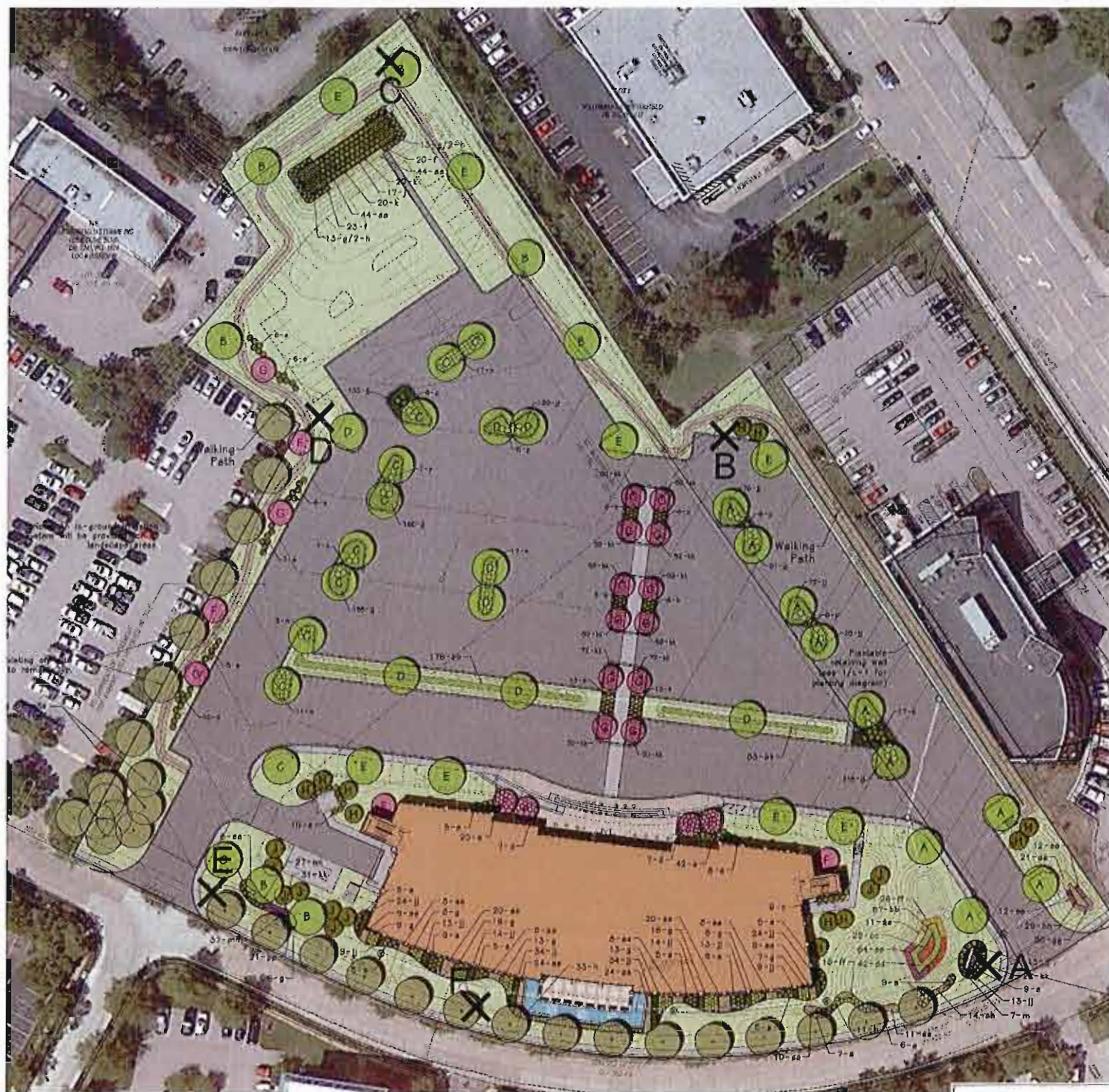
D - VIEW LOOKING SOUTHEAST



E - VIEW LOOKING NORTHEAST



F - VIEW LOOKING NORTH



ARCHITECTURAL SITE PLAN
SCALE: 1"=40'-0"



C - VIEW LOOKING SOUTH



B - VIEW LOOKING SOUTH



A - VIEW LOOKING WEST



214035 - 05.23.2014

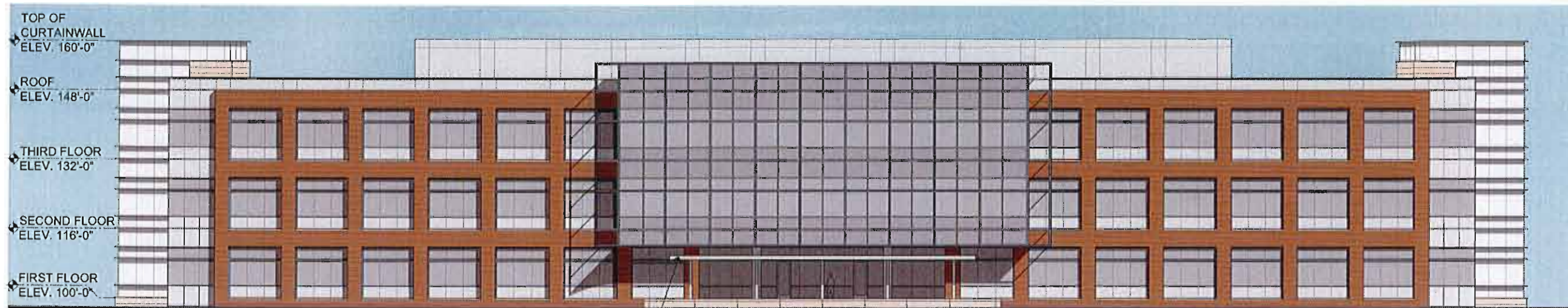


MiTek Corporate Headquarters

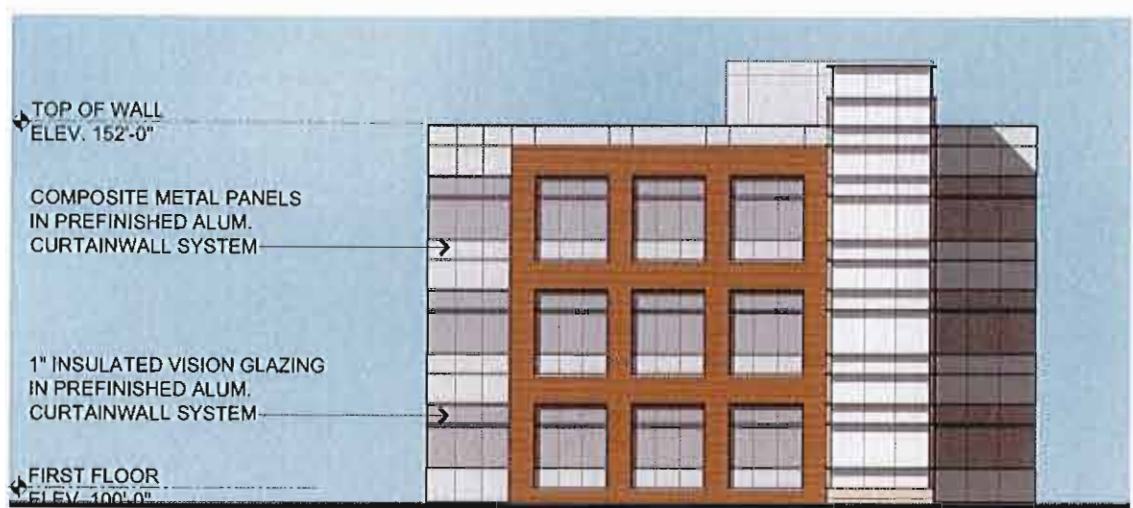
CHESTERFIELD, MISSOURI

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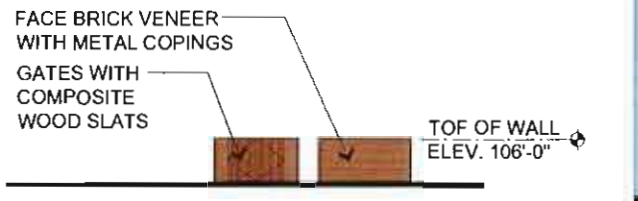
SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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



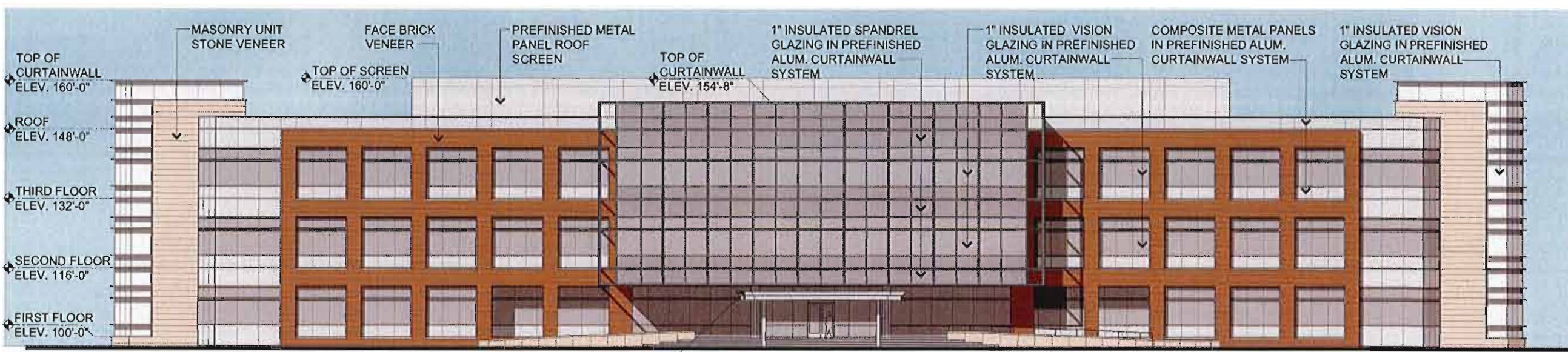
GENERATOR ENCLOSURE
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TRASH ENCLOSURE
SCALE: 1/8" = 1'-0"



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



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



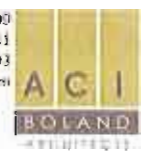
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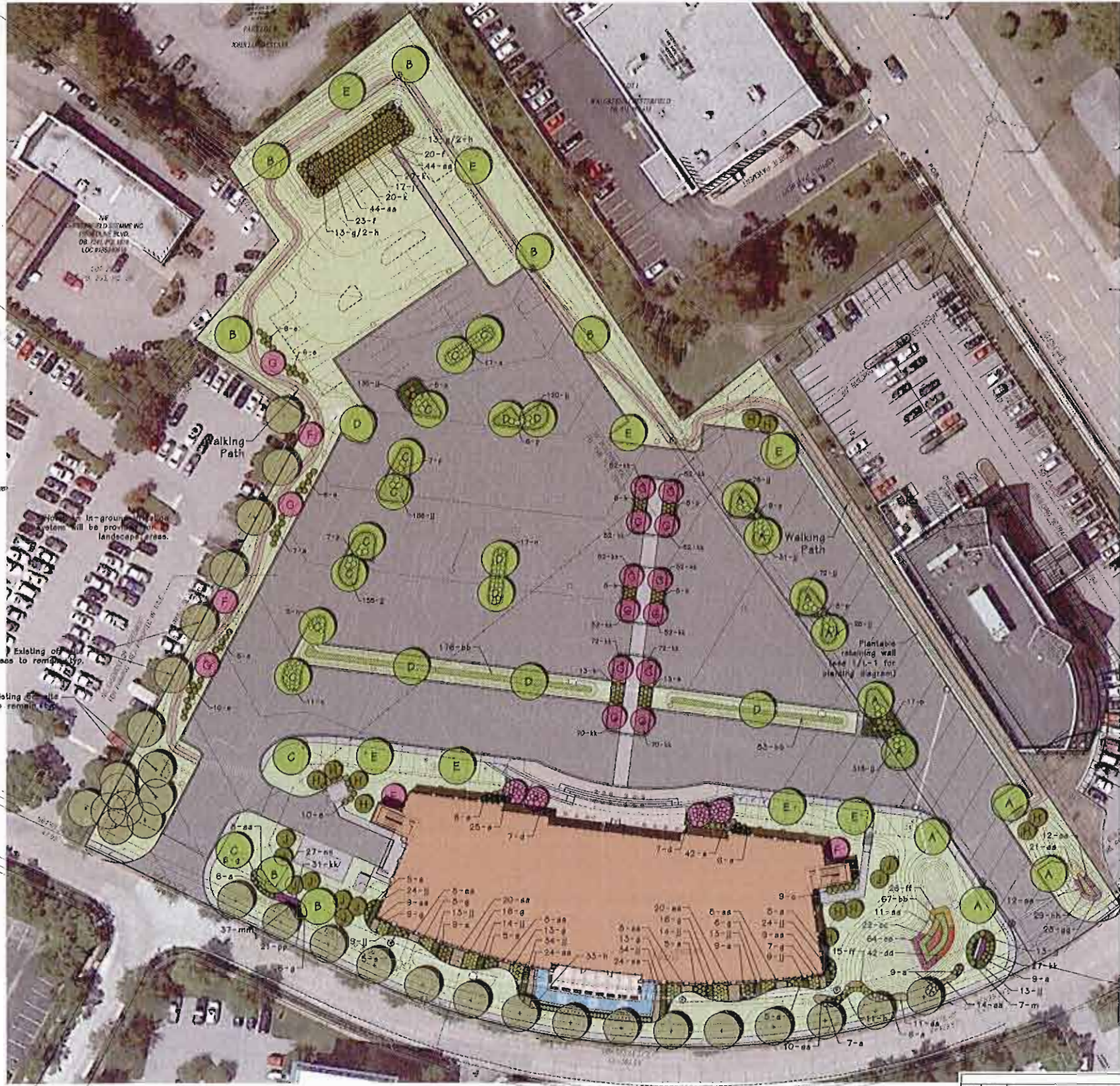


MiTek Corporate Headquarters

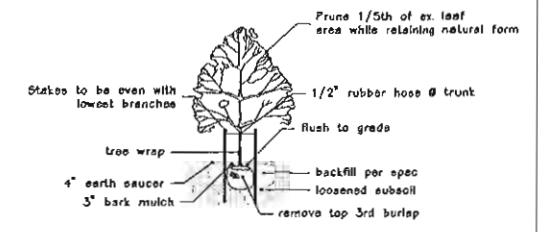
CHESTERFIELD, MISSOURI

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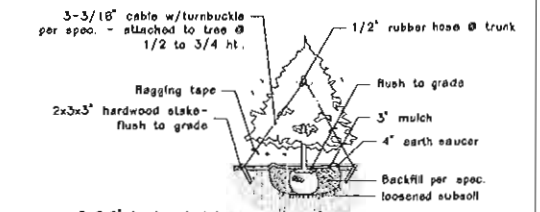




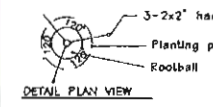
LANDSCAPE PLAN
SCALE 1" = 30'



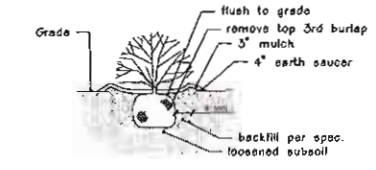
CANOPY TREE PLANTING



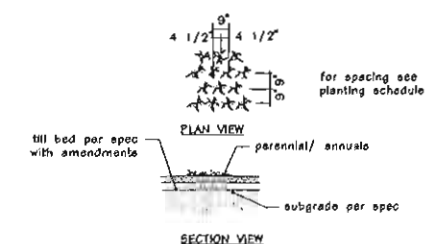
TYPICAL EVERGREEN PLANTING



TYPICAL SHRUB PLANTING



TYPICAL PERENNIAL PLANTING



PLANTABLE WALL PLANTING DIAGRAM
SCALE 3/16" = 1'-0"

PLANT	QUANTITY	SPERMAL NAME	COMMON NAME	SIZE	REMARKS
f	43	Itea virginica 'Sprich'	Little Henry Virginia Sweetgum	24"	
g	28	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry	24"	
h	4	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	24"	
i	17	Cornus sericea 'Ivan'	Red-Twig Dogwood	24"	
k	40	Cornus sericea 'Flaviramea'	Yellow-Twig Dogwood	24"	
ea	128	Calamagrostis x acutiflora 'Overdam'	Overdam Feather Reed Grass	1 qt. 24" O.C.	
bb	328	Juncus effusus	Common Rush	2'x2'x5" DCP 24" O.C.	
cc	22	Iris fulva	Copper Iris	2'x2'x5" DCP 24" O.C.	
dd	42	Lobelia cardinalis	Cardinal Flower	2'x2'x5" DCP 18" O.C.	
ee	66	Echinacea purpurea	Purple Coneflower	2'x2'x5" DCP 18" O.C.	
ff	28	Rudbeckia fulgida var. sullivantii 'Goldsturm'	Goldsturm Coneflower	2'x2'x5" DCP 24" O.C.	
gg	28	Monarda bradburiana	Eastern Beebalm	2'x2'x5" DCP 18" O.C.	
hh	28	Carex stricta	Tussock Sedge	2'x2'x5" DCP 18" O.C.	
jj	1102	Hedera helix 'Batika'	Batko Ivy	2' s.p. 18" O.C.	
kk	700	Coreopsis unclorata	Plains Coreopsis	1 qt. 18" O.C.	

PLANT	QUANTITY	SPERMAL NAME	COMMON NAME	SIZE	FORM	HT.	WATER REQ.
A	10	Acer rubrum 'Fransero'	Red Sunset Maple	2 1/2'	Canopy	FAST	45+
B	7	Taxodium distichum	Bald Cypress	2 1/2'	Canopy	MED	45+
C	11	Tilia cordata	Littleleaf Linden	2 1/2'	Canopy	SLOW	45+
D	8	Quercus bicolor	Swamp White Oak	2 1/2'	Canopy	MED	45+
E	8	Gleditsia triacanthos 'Inornata'	Thornless Honeylocust	2 1/2'	Canopy	FAST	45+
F	12	Cercis canadensis	Redbud	2 1/2'	Ornamental	FAST	25-30'
G	15	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	2 1/2'	Ornamental	MED	25-35'
H	11	Picea glauca	White Spruce	8-9'	Evergreen	MED	30-40'
J	9	Pinus strobus	Eastern White Pine	8-9'	Evergreen	FAST	45+
K	8	Cornus florida	Flowering Dogwood	2 1/2'	Ornamental	MED	15-30'
a	78	Juniperus horizontalis 'Blue Chip'	Blue Chip Juniper	24"			
b	24	Spiraea x bumalda 'Goldflame'	Goldflame Spiraea	24"			
o	15	Syringa patula 'Miss Kim'	Miss Kim Lilac	30"			
d	14	Hydrangea quercifolia	Oakleaf Hydrangea	30"			
e	82	Viburnum dentatum	Arrowwood Viburnum	2-3'			
m	7	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	6"			
n	50	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	24"			
p	62	Viburnum opulus 'Nanum'	Dwarf European Cranberrybush	30"			



Consultants:

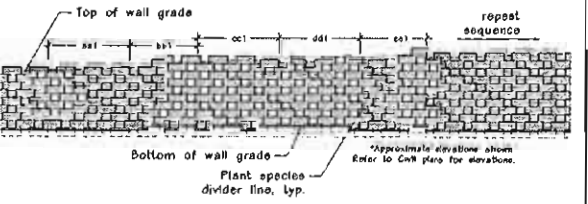
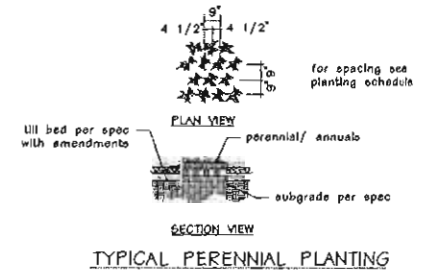
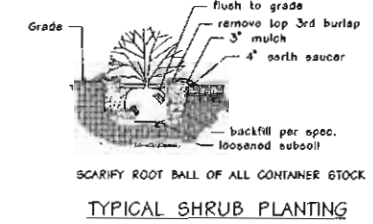
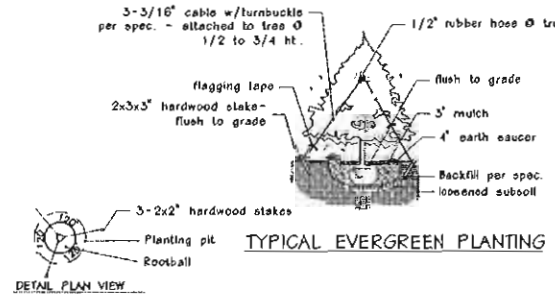
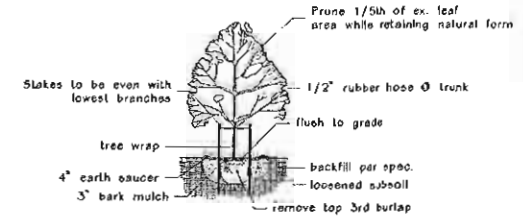
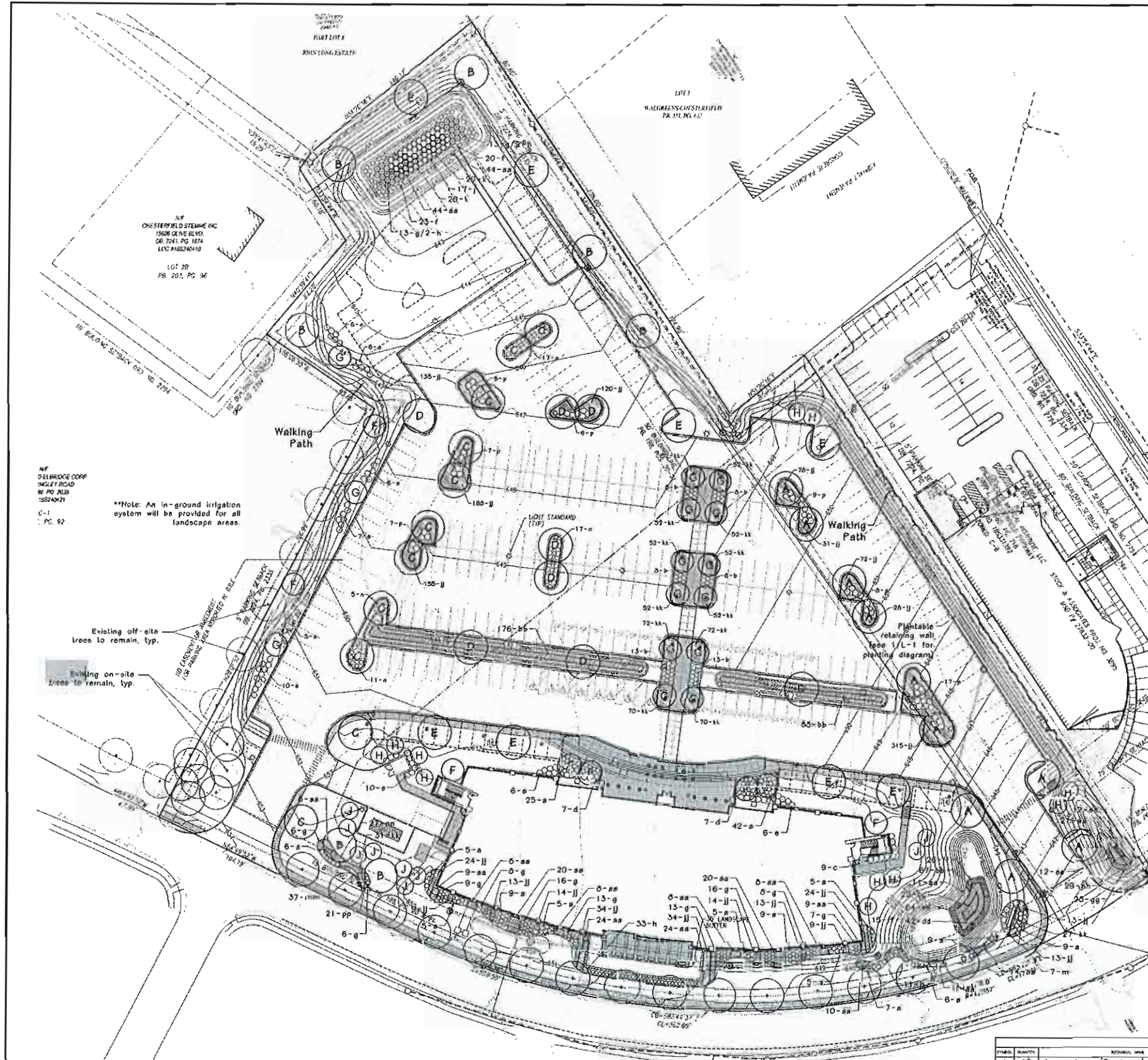
Lot A Herman Stemme Office Park
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Revisions	Date	Description	No.
	5-23-14	Issue Reviews	1
	6-24-14	City Comments	2

Drawn: LWH
Checked: JAS



Sheet Title: Landscape Plan
Sheet No: L-1
Date: 04/24/14
Job #: 607.011



PLANTABLE RETAINING WALL PLANTING SCHEDULE

MARK	QUANTITY	NATURAL NAME	COMMON NAME	SIZE	REMARKS
aa1	360	Sedum kamtschaticum var. elaeagnifolium	Kamtschaticum Stonecrop	2" x 2" x 5" DCP	1 per wall
bb1	360	Sedum spuriatum 'Dragon's Blood'	Dragon's Blood Stonecrop	2" x 2" x 5" DCP	1 per wall
cc1	360	Sedum spuriatum 'Tricolor'	Tricolor Stonecrop	2" x 2" x 5" DCP	1 per wall
dd1	360	Sedum rupestre 'Angelina'	Angelina Stonecrop	2" x 2" x 5" DCP	1 per wall
ee1	360	Sedum 'Rosy Glow'	Rosy Glow Stonecrop	2" x 2" x 5" DCP	1 per wall

PLANTING SCHEDULE

MARK	QUANTITY	NATURAL NAME	COMMON NAME	SIZE	REMARKS
f	43	Ilex virginica 'Sprich'	Little Henry Virginia Sweetopire	24"	
g	26	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry	24"	
h	4	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	24"	
i	17	Cornus sericea 'Isanti'	Red-Twig Dogwood	24"	
k	40	Cornus sericea 'Flaviramea'	Yellow-Twig Dogwood	24"	
aa	126	Calamagrostis x acutiflora 'Overdam'	Overdam Feather Reed Grass	1 qt. 24" O.C.	
bb	328	Juncus effusus	Common Rush	2" x 2" x 5" DCP 24" O.C.	
cc	22	Iris fulva	Copper Iris	2" x 2" x 5" DCP 24" O.C.	
dd	42	Lobelia cardinalis	Cardinal Flower	2" x 2" x 5" DCP 16" O.C.	
ee	55	Echinacea purpurea	Purple Coneflower	2" x 2" x 5" DCP 16" O.C.	
ff	28	Rudbeckia fulgiva var. sullivantii 'Goldsturm'	Goldsturm Coneflower	2" x 2" x 5" DCP 24" O.C.	
gg	20	Monarda bradburiana	Eastern Beebalm	2" x 2" x 5" DCP 16" O.C.	
hh	28	Carex stricta	Tussock Sedge	2" x 2" x 5" DCP 16" O.C.	
jj	1102	Hedera helix 'Ballica'	Baltic Ivy	2" c.p. 16" O.C.	
kk	700	Coreopsis tinctoria	Plains Coreopsis	1 qt. 16" O.C.	

PLANTING SCHEDULE

MARK	QUANTITY	NATURAL NAME	COMMON NAME	SIZE	REMARKS	PLANTING RATE	PLANTING DATE
A	10	Acer rubrum 'Frankford'	Red Sunset Maple	2 1/2"	Canopy	FAST	45+
B	7	Taxodium distichum	Bald Cypress	2 1/2"	Canopy	MED	45+
C	11	Thuja occidentalis	Littleleaf Linden	2 1/2"	Canopy	BLOW	45+
D	3	Quercus bicolor	Swamp White Oak	2 1/2"	Canopy	FAST	45+
E	6	Gleditsia triacanthos 'Inermis'	Thornless Honeylocust	2 1/2"	Canopy	FAST	45+
F	12	Cercis canadensis	Redbud	2 1/2"	Ornamental	FAST	25-30'
G	15	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	2 1/2"	Ornamental	MED	25-30'
H	11	Picea glauca	White Spruce	6-8"	Evergreen	MED	30-40'
J	9	Pinus strobus	Eastern White Pine	6-8"	Evergreen	FAST	45+
K	6	Cornus florida	Flowering Dogwood	2 1/2"	Ornamental	MED	15-30'
a	26	Juniperus horizontalis 'Blue Chip'	Blue Chip Juniper	24"			
b	24	Spiraea x bumalda 'Goldflame'	Goldflame Spirea	24"			
c	15	Syringa patula 'Miss Kim'	Miss Kim Lilac	30"			
d	14	Hydrangea quercifolia	Oakleaf Hydrangea	30"			
e	62	Viburnum dentatum	Arrowwood Viburnum	2-3'			
m	7	Juniperus scopulorum 'Skyrocket'	Skyrocket Juniper	6"			
n	50	Rhus aromatica 'Gro-Low'	Gro-Low Sumac	24"			
p	62	Viburnum opulus 'Nanum'	Dwarf European Cranberrybush	30"			

Revisions:

Date	Description	No.
5-23-14	Base Revision	1
6-24-14	City Comments	2

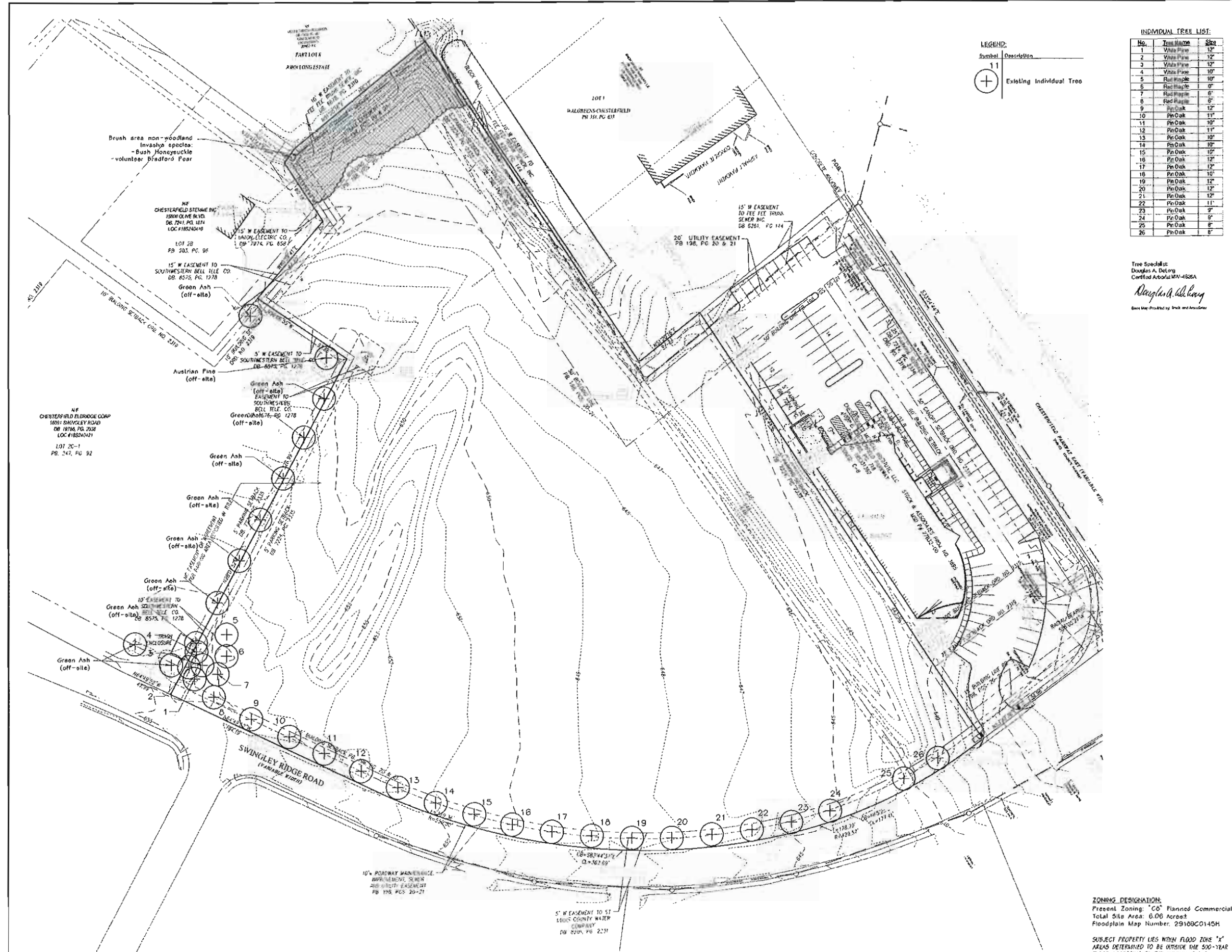
Drawn: LWH
Checked: JMS

loomisAssociates
Landscape Architecture & Planning
1000 South Main Street, Suite 200
Chesterfield, MO 63017
Phone: 636.863.1111
Fax: 636.863.1112
www.loomisassociates.com

Sheet Title: Landscape Plan
Sheet No: L-1
Date: 04/24/14
Job #: 687.011



Herold Saunders - *[Signature]*
MO License # LA-667
Consultant:



LEGEND:
Symbol Description
11 Existing Individual Tree

No.	Tree Name	Size
1	White Pine	12"
2	White Pine	12"
3	White Pine	12"
4	White Pine	10"
5	Red Maple	10"
6	Red Maple	0"
7	Red Maple	6"
8	Red Maple	6"
9	Pn Oak	12"
10	Pn Oak	11"
11	Pn Oak	10"
12	Pn Oak	11"
13	Pn Oak	10"
14	Pn Oak	10"
15	Pn Oak	10"
16	Pn Oak	12"
17	Pn Oak	12"
18	Pn Oak	10"
19	Pn Oak	12"
20	Pn Oak	12"
21	Pn Oak	12"
22	Pn Oak	11"
23	Pn Oak	9"
24	Pn Oak	8"
25	Pn Oak	8"
26	Pn Oak	8"

Tree Specialist:
Douglas A. DeLong
Certified Arborist MN-4826A
[Signature]
Scale May Vary by Block and Area

Brush area non-woodland
Invasive species:
- Bush Honeylocust
- volunteer Bradford Pear

NE CHESTERFIELD STEMMER INC
15801 OLIVE BLVD.
DE 791, PL 1874
LOC #1852449
LOT 2B
PB 203, PG 96
15' W EASEMENT TO
UNION ELECTRIC CO.
DB 7874, PG 658

NE CHESTERFIELD FLORNOGE CORP
16091 SWINGLEY ROAD
DB 18766, PG 2038
LOC #1852427
LOT 2C-1
PB 247, PG 92

10' EASEMENT TO
SOUTHWESTERN BELL TELE CO.
DB 8575, PG 1278

4' TRASH ENCLOSURE
NE CHESTERFIELD FLORNOGE CORP
16091 SWINGLEY ROAD
DB 18766, PG 2038
LOC #1852427

10' ROADWAY MAINTENANCE
BARRIERS, SLOPE
AND WIDTH EASEMENT
PB 195, PGS 20-21

5' W EASEMENT TO ST
LOUIS COUNTY WATER
COMPANY
DB 2707, PG 2211



Lot A Herman Stemme Office Park
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Revisions:

Date	Description	No.

Drawn: LWH
Checked: JAS

loomisAssociates
landscaping architects/planners
16091 Swingley Road, Suite 200
Chesterfield, MO 63017
Phone: 636.871.1111
www.loomisassociates.com

Sheet Title: Tree Stand Delineation
Sheet No: TSD
Date: 04/24/14
Job #: 607.011

ZONING DESIGNATION:
Present Zoning: "C6" Planned Commercial
Total Site Area: 6.06 Acres
Floodplain Map Number: 29169C0145H
SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X"
AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR
FLOOD ACCORDING TO THE NATIONAL FLOOD
INSURANCE RATE MAP FOR ST LOUIS COUNTY AND
INCORPORATED AREAS RATE MAP NUMBER
29169C0145 H WITH AN EFFECTIVE DATE OF AUGUST
2, 1995.



James A. DeLong
Professional Engineer
Missouri License #4826A

Consultants:

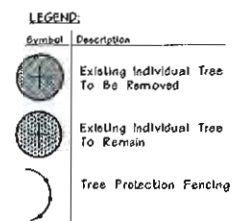
CALCULATIONS:
Existing Tree Canopy Coverage: 7743 sf, or .18 acres
Tree Canopy proposed for removal: 1,256 sf, or 0.03 acres (16.2%)
Tree Canopy proposed for preservation: 6,487 sf, or 0.15 acres (83.8%)

TREE PROTECTION NOTES:
1) Clearing limit shall be staked by surveyor to facilitate fencing and/or trenching requirements.
2) No clearing or grading shall begin in areas where tree protection and/or root treatments have not been completed.
3) Contractor to post tree protection signage where necessary.
4) Tree protection measures to be maintained throughout construction sequence.

Tree Sketch By:
Douglas A. DeLong
Certified Arborist MW-4826A
Douglas A. DeLong
New Map Provided by: State and/or Owner

TREE SCHEDULE:

No.	Tree Name	Size	Disposition
1	White Pine	12"	Preserve
2	White Pine	12"	Preserve
3	White Pine	12"	Preserve
4	White Pine	10"	Preserve
5	Red Maple	10"	Preserve
6	Red Maple	8"	Preserve
7	Red Maple	8"	Preserve
8	Red Maple	8"	Remove
9	Pin Oak	12"	Remove
10	Pin Oak	11"	Preserve
11	Pin Oak	10"	Preserve
12	Pin Oak	11"	Preserve
13	Pin Oak	10"	Preserve
14	Pin Oak	10"	Preserve
15	Pin Oak	10"	Preserve
16	Pin Oak	12"	Preserve
17	Pin Oak	12"	Preserve
18	Pin Oak	10"	Preserve
19	Pin Oak	12"	Preserve
20	Pin Oak	12"	Preserve
21	Pin Oak	12"	Preserve
22	Pin Oak	11"	Preserve
23	Pin Oak	9"	Preserve
24	Pin Oak	9"	Preserve
25	Pin Oak	8"	Remove
26	Pin Oak	8"	Remove



**Lot A Herman Stemme Office Park
16023 Swingley Ridge Rd**

Chesterfield, MO 63017

Revisions:

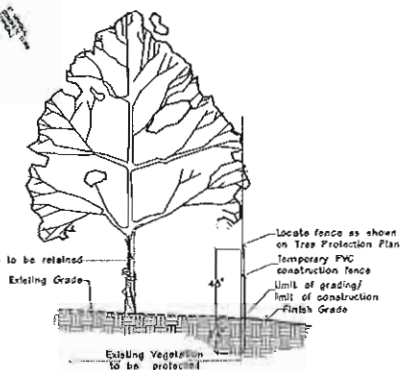
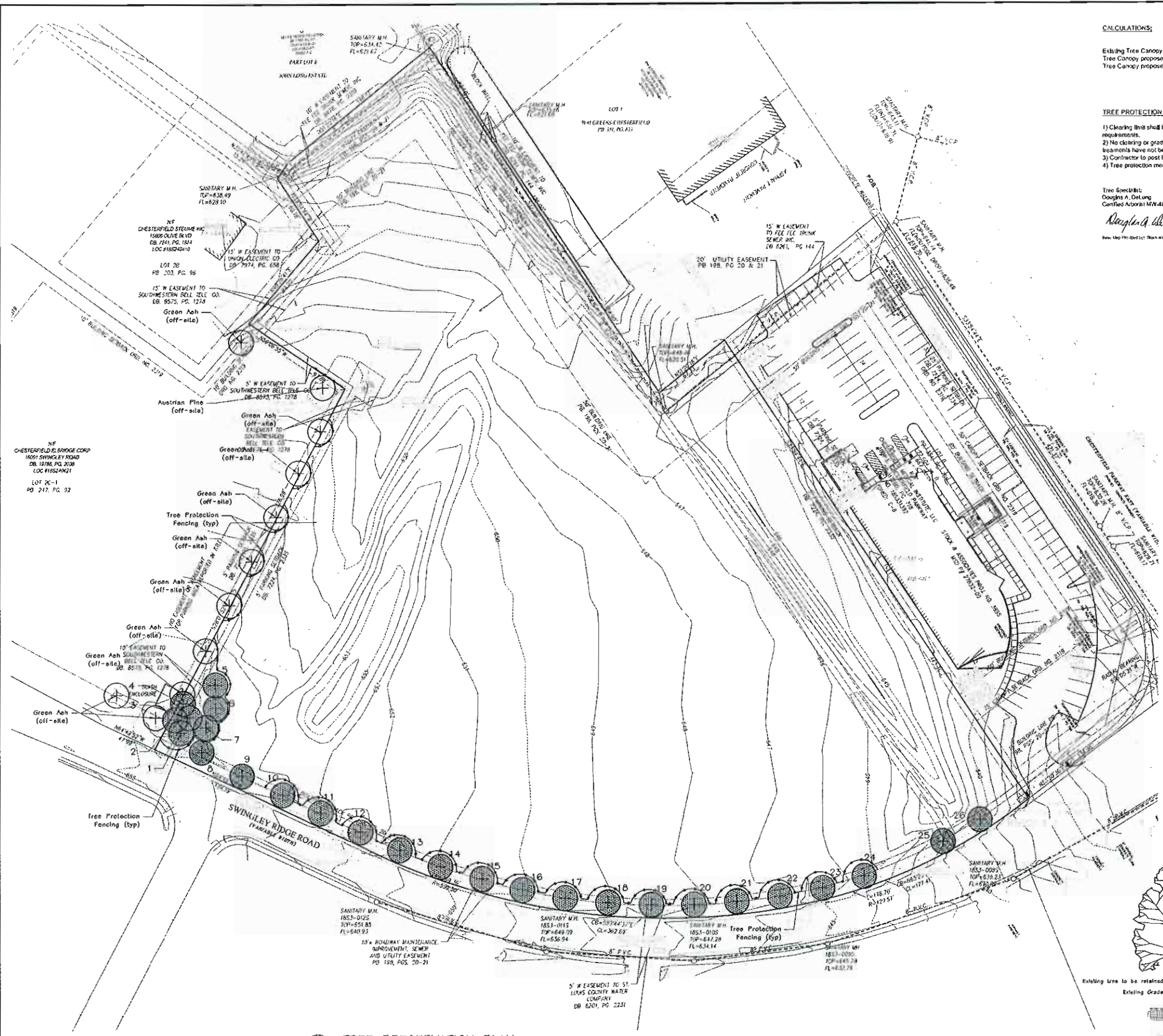
Date	Description	No.
6/24/14	City Comments	2

Drawn: LWH
Checked: JAB



Sheet Title: Tree Preservation Plan
Sheet No: TPP

Date: 04/24/14
Job #: 607.011



TREE PRESERVATION PLAN
SCALE 1" = 30'
0 30 60 120

LIGHTING PLAN

PREPARED BY LIGHTING ASSOCIATED, INC.

257 Chestnut Hill Business Park
St. Louis, MO 63105
314-991-1111 FAX 314-991-1112
www.lightingassoc.com

STOCK & ASSOCIATES
Consulting Engineers, Inc.

PREPARED BY:

MITEK CORPORATE HEADQUARTERS
LOT A HERMAN STEMMER OFFICE PARK
18023 SWINGLEY BRIDGE RD
CHESTERFIELD, MO 63017

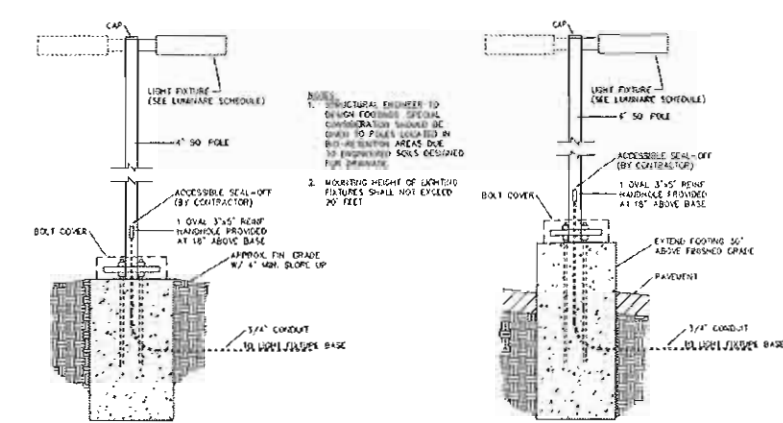
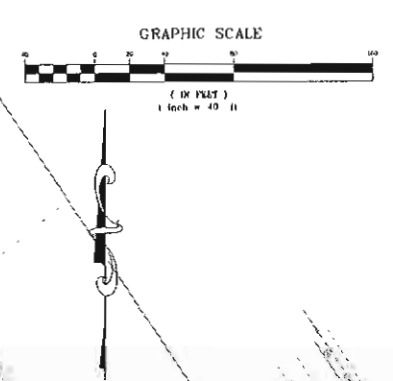


REVISIONS:

1	2014-08-20 - 07% COMMENTS
2	2014-08-26 - CAPTURED REV

DATE: 08/27/2014
DRAWN BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS
SCALE: AS SHOWN
SHEET NO.: 1 OF 1

LIGHTING PLAN



LIGHT POLE DETAIL (GRASS) (n.l.s.)

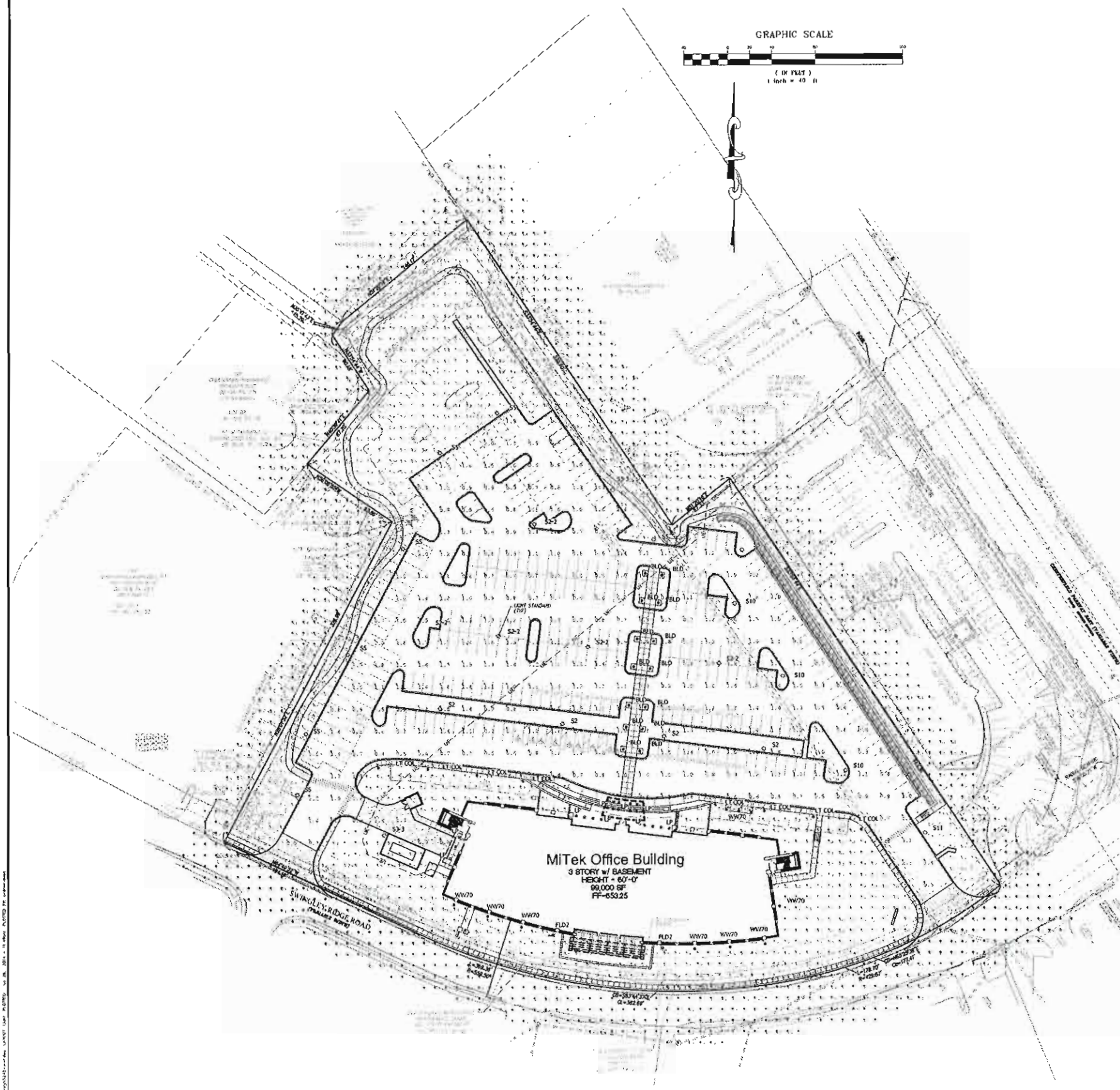
LIGHT POLE DETAIL (PAVEMENT) (n.l.s.)

POLE FIXTURES MOUNTED AT 20' INCLUDING BASE
DOWNLIGHTS RECESSED AT 12'
LIGHT LEVEL CALCULATED ON THE GROUND

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BETWEEN CURB & PROP	ILLUMINANCE	Fc	0.13	2.3	0.0	N.A.	N.A.
LIGHT LEVEL AROUND B	ILLUMINANCE	Fc	0.21	3.5	0.0	N.A.	N.A.
SITE	ILLUMINANCE	Fc	1.14	7.1	0.4	2.85	17.75
SPILL LIGHT	ILLUMINANCE	Fc	0.01	0.1	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	LLF	Description
⊙	3	S10	SINGLE	56	168	1.000	GLEON-AE-01-LED-E1-SM-Q
⊙	4	S2	SINGLE	80	320	1.000	GLEON-AE-03-LED-E1-SWQ-530
⊙	5	S2-2	SINGLE	72	360	1.000	GLEON-AE-02-LED-E1-SWQ-700
⊙	2	S3-3	SINGLE	56	112	1.000	GLEON-AE-01-LED-E1-SL3-HSS
⊙	8	S5	SINGLE	54	432	1.000	GLEON-AE-02-LED-E1-SL4-530-HSS
⊙	1	S11	2 @ 90 DEGREES	54	108	1.000	GLEON-AE-02-LED-E1-SL4-530-HSS
⊙	14	BLD	SINGLE	1	14	1.000	S4151
⊙	23	LP	SINGLE	15	345	1.000	LP CIRCLE-SEMI-REC-10-3
⊙	8	LT COL	SINGLE	30	240	0.880	112139705
⊙	6	FLD2	SINGLE	30	180	0.900	665-3220 +665-8135
⊙	10	WW70	SINGLE	78	780	0.820	676-1251

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





Date: May 30, 2014

LIGHTING ASSOCIATES, INC.
3216 S. BRENTWOOD BLVD.
WEBSTER GROVES MO 63119
Phone: (314) 531-3500
Fax: (314) 531-3737

Job Name
MITEK CORPORATION HEADQUARTERS - SITE
LA114-51763
CHESTERFIELD MO
PART 2 OF 2

Bid Date
May 27, 2014

Submittal Date
May 27, 2014

Engineer:
STOCK AND ASSOCIATES CONSULTING ENGINEERS
257 CHESTERFIELD BUSINESS PARKWAY
SAINT LOUIS MO 63005

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:

MITEK CORPORATION HEADQUARTERS - SITE
 Engineer: STOCK AND ASSOCIATES
 CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
 + SSP20-4.0-11-BRZ-DM10-BC

Notes:

Type:

S5

LAI14-51763

McGRAW-EDISON®



DESCRIPTION

The Galloon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galloon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adaptor included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronza, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



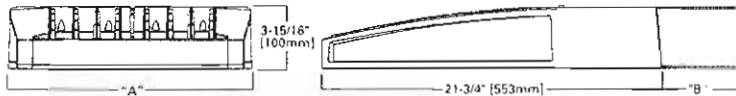
GLEON GALLEON LED

1-10 Light Squares
 Solid State LED

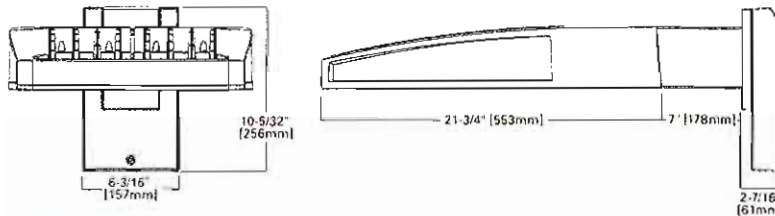
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (lbs./ft.)
1-3	15-1/2" (394mm)	7" (178mm)	15" (381mm)	33 (15.0 kgs.)	3.96
5-6	21-5/8" (548mm)	7" (178mm)	18" (457mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.5 kgs.)	1.12

NOTES: 1. Optional arm length is required after mounting luminaire at 90° or 120° angles only. 2. EPA limited with optional arm length.

Cooper Lighting
 by **E.T.N**

www.designlights.org



CERTIFICATION DATA
 UL/cUL Wet Location Listed
 ISO 9001
 LM79 / LM80 Compliant
 3G Vibration Rated
 ARRA Compliant
 IP66 Rated
 DesignLights Consortium® Qualified*

ENERGY DATA
 Electronic LED Driver
 >0.9 Power Factor
 <20% Total Harmonic Distortion
 120V-277V 50/60Hz
 347V & 480V 60Hz
 -40°C Min. Temperature
 40°C Max. Temperature
 50°C Max. Temperature (HA Option)



ADH140426
 2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC

Notes:

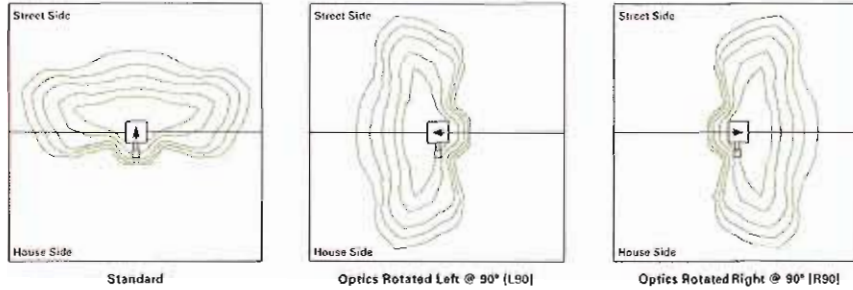
Type:

S5

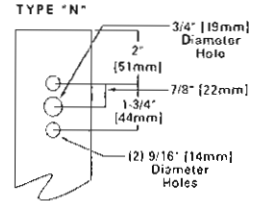
LAI14-51763

GLEON GALLEON LED

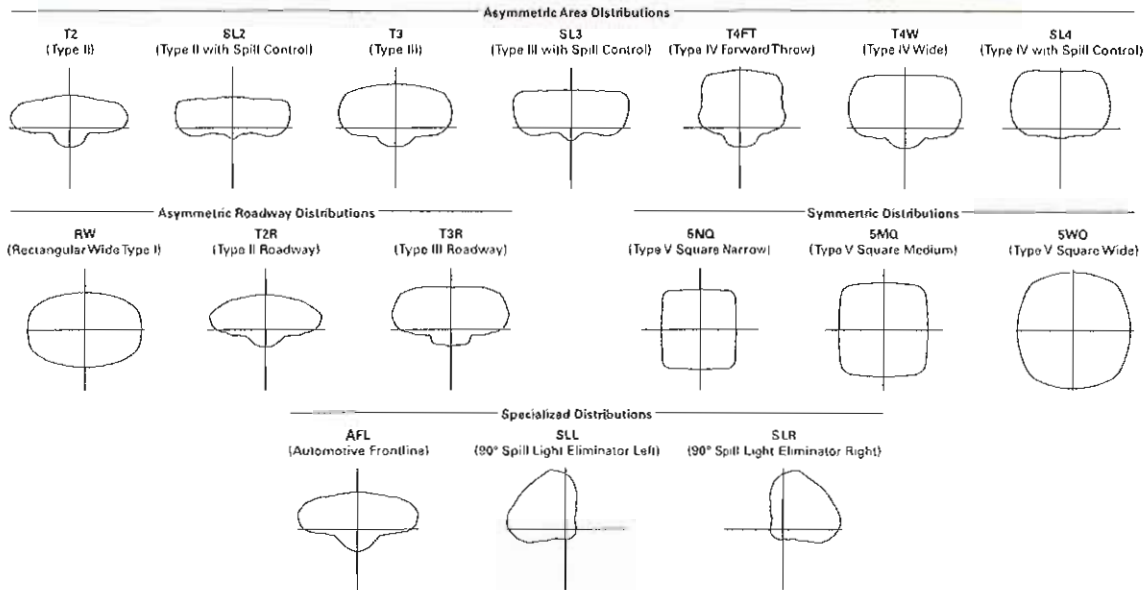
OPTIC ORIENTATION



DRILLING PATTERN

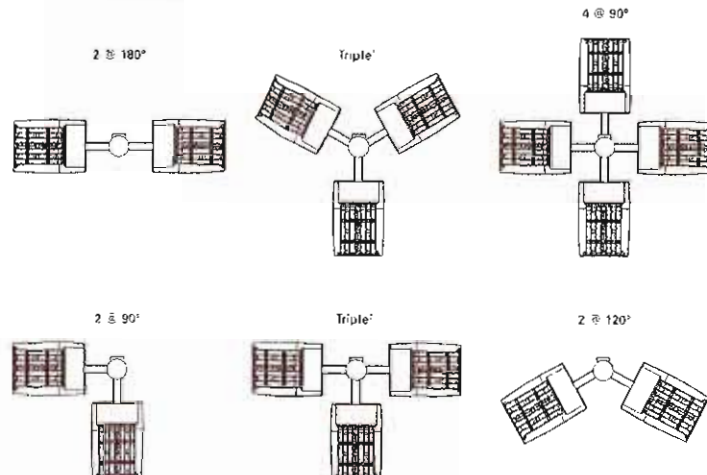


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-02	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-03	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-04	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-05	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-06	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-07	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-08	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-09	16' Extended Arm (Required)	16' Extended Arm (Required)
GLEON-AE-10	16' Extended Arm (Required)	16' Extended Arm (Required)



Cooper Lighting
by **EATON**

Eaton
1600 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1171 Highway 74 South
Raleigh, NC 27603
P: 770-486-4000
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ADH140426
2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC

Notes:

Type:

S5

LAI14-51763

GLEON GALEON LED

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259	
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14	
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26	
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10	
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98	
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,999	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,369	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,000	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,068	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,090	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
5N0	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
5M0	Lumens	3,296	6,441	9,610	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5W0	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,665	24,549	27,394	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,365	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4090K CCT

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC

Type:

S5

Notes:

LAI14-51763

GLEON GALLEON LED

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON-Galleon	AE-1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED-Solid State Light Emitting Diodes	E1=120-277V 347=347V ³ 480=480V ³	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5M0=Type V Square Medium 5W0=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁴ MA=Mast Arm Adapter ⁵ WM=Wall Mount
Options (Add as Suffix)				Accessories (Order Separately)			
2L=Two Circuits ^{6,7} 7030=70 CRI 3000K ⁸ 7060=70 CRI 6000K ⁸ 530=Drive Current Factory Set to 530mA ⁹ 700=Drive Current Factory Set to 700mA ⁹ P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ¹⁰ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{11, 12, 13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{11, 12, 13} MS/OIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{11, 12, 13} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{11, 13, 14} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{11, 13} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{11, 13} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁴ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁴ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹⁵				OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10KV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁶ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-8 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield ^{15, 17}			

- Notes**
- DesignLights Consortium¹ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Standard 4000K CCT and maximum 70 CRI.
 - Requires the use of a step-down transformer when combined with MS/DIM, MS/X or DIMAE.
 - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirements table.
 - Factory installed.
 - 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
 - Not available with LumaWatt wireless sensors.
 - Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - 1 Amp standby. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - Consult factory for more information.
 - Replace E1 with specific voltage.
 - The FSIR-100 accessory is required to adjust parameters.
 - Not available with HA option.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
 - Only available with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
 - One required for each Light Square.

Cooper Lighting
by E-T-N

Eaton
1000 North Broadway
Cincinnati, OH 45219
United States
Eaton.net

Eaton's Cooper Lighting Business
1127 Highway 29 South
Piquette City, OH 45209
P: 937-466-4000
www.cooperlighting.com

Specifications and
dimensions subject to
change without notice.

AOH140426
2014-05-12 08:15:51



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC

Notes:

Type:
S5

LAI14-51763



SSP Square Non-Tapered Steel Poles



SSP

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Bolt Circle: 8.00" Sq. Dim. : 8.00" Thickness: 0.75" Conduit Opening: 3"
Consult KW representative for non-standard dimensions.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" inside opening, located 1' - 6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finish

Standard - The exterior surface is cleaned with an alkaline rinse to remove surface contaminants and shot blasted to specifications as published by the Steel Structures Painting Council Standards SSPC-SP10 (near white). The exterior surface is chemically pretreated with an iron phosphate conversion coating then rinsed with ambient fresh water containing special surfactants and sealers forming a dry tight micro-crystalline coating. A polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils is standard on all color finishes. The internal surface including the powder coated area at the base-end is coated with **NSPM**, a thermoplastic hydrocarbon resin system specially formulated for application over untreated steel surfaces, to a thickness of 3 mils. The internal coating shall contain special corrosion inhibitors and is capable of passing 1000 hours of salt spray exposure (ASTM B-117).

Series: **SSP** - Square Non-Tapered Steel Poles
Nominal Height: **20'** Base Diameter: **4.0"** Gauge: **11**
Finish: **BRZ** - Standard - Bronze
Mounting Designation: **DM10** - Drilled for 1 Luminaire
Options: **BC** - Base Cover

*****VERIFY POLE HEIGHT*****

Height (ft.)	Pole Shaft (in.) x (ft.)	Gauge	Handhole Size (in.)	Anchor Bolt (in.) x (in.) x (in.)	Bolt Circle (in.)	80 MPH (ft. ²)	90 MPH (ft. ²)	100 MPH (ft. ²)	Ship WT. (lbs.)
20	4 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151

SSP20-4.0-11-BRZ-DM10-BC

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[Generate New SSP Logic](#) [Choose Different Pole Type](#) [Main Menu](#)



Terms and Conditions of Sale

TERMS

Net 30 days from the date of Company's invoice unless otherwise specified. A 1-1/2% per month late charge will be added to accounts past due.

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:

MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

GLEON-AE-01-LED-E1-5MQ-BZ +
SSP20-4.0-11-BRZ-DM10-BC

Notes:

Type:

S10

LAI14-51763

McGRAW-EDISON®



DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			



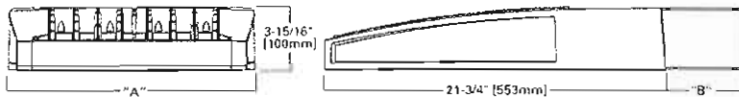
GLEON GALLEON LED

1-10 Light Squares
Solid State LED

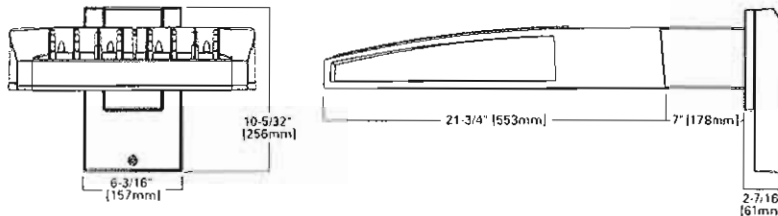
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm 2 (S.Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.85
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.03
7-8	27-5/8" (703mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.57
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	83 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two or more at 90° on a single pole. 2. EPA calculated with optional arm length.



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
ARRA Compliant
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

Cooper Lighting
by E.T.N.

*www.designlights.org



ADH140426
2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:

MITEK CORPORATION HEADQUARTERS - SITE
 Engineer: STOCK AND ASSOCIATES
 CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

GLEON-AE-01-LED-E1-5MQ-BZ +
 SSP20-4.0-11-BRZ-DM10-BC

Notes:

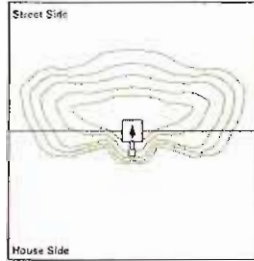
Type:

S10

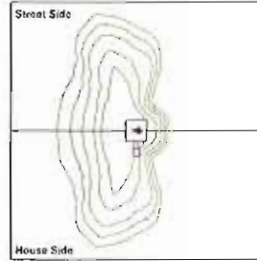
LAI14-51763

GLEON GALLEON LED

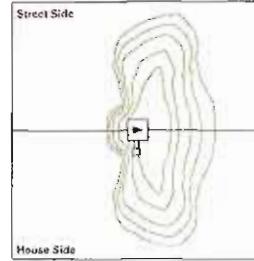
OPTIC ORIENTATION



Standard



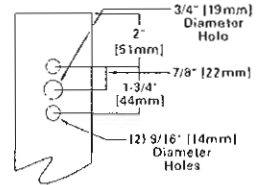
Optics Rotated Left @ 90° [L90]



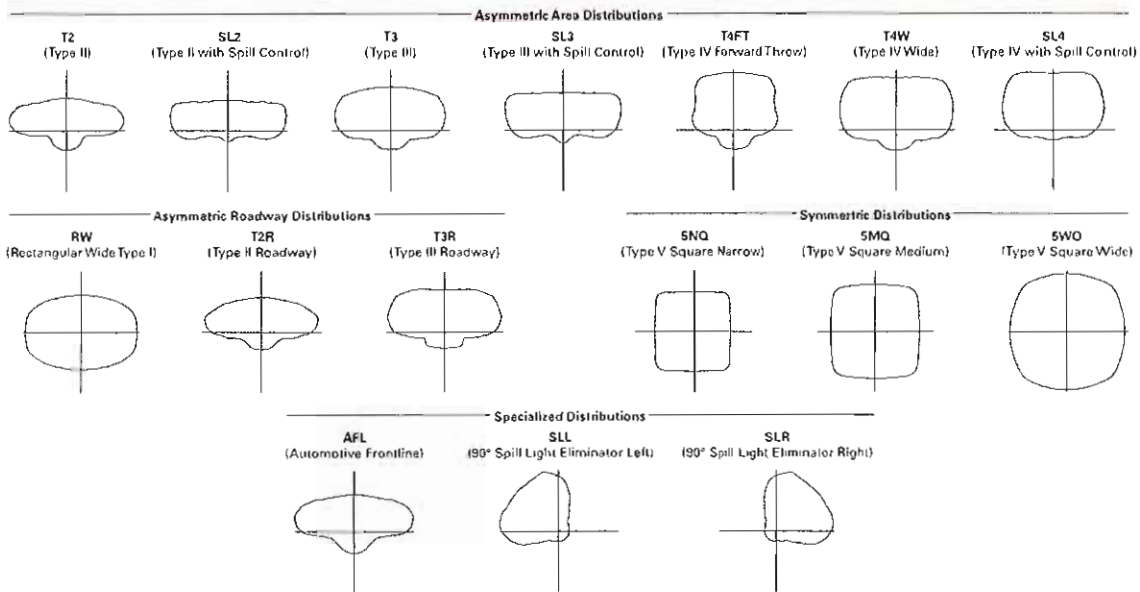
Optics Rotated Right @ 90° [R90]

DRILLING PATTERN

TYPE "N"

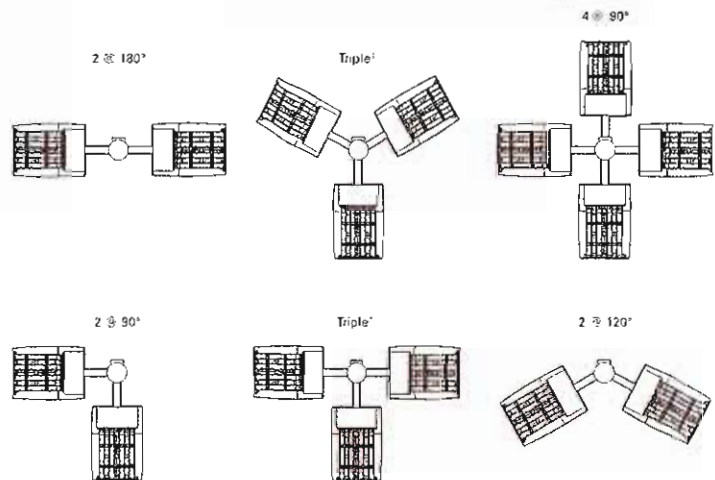


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-02	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-03	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-04	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-05	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-06	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-07	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-08	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-09	16' Extended Arm (Required)	16' Extended Arm (Required)
GLEON-AE-10	16' Extended Arm (Required)	16' Extended Arm (Required)



Cooper Lighting
 by E.T.M.

Eaton
 5900 Eaton Boulevard
 Cleveland, OH 44122
 United States
 Eaton.com

Eaton's Cooper Lighting Business
 1821 Highway 74 South
 Peachtree City, GA 30269
 P: 770-286-8800
 www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ADH140426
 2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-5MQ-BZ +
SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:

S10

LAI14-51763

GLEON GALLEON LED

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,555	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,700	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,836	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,129	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,886	19,669	24,370	29,163	34,466	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SNQ	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,438	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-C2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,262	48,191	53,556
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
5WQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,767	18,191	22,539	26,971	31,897	36,141	40,315	44,835
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,485	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM2090-BC
Notes:

Type:
S11
LAI14-51763

GLEGN GALLEON LED

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259	
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14	
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26	
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10	
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98	
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,697	17,588	20,800	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,388	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,269	9,354	12,359	15,313	18,325	21,671	24,555	27,390	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,087	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,008	8,962	11,842	14,672	17,558	20,764	23,527	26,244	29,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,485	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
SNQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,863	24,773	27,634	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
SMO	Lumens	3,295	6,441	9,510	12,698	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
SWQ	Lumens	3,305	6,458	9,636	12,732	15,775	18,878	22,325	25,296	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,543	26,068
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,686	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 5000K CCT

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM2090-BC

Notes:

Type:

S11

LA114-51763

GLEON GALLEON LED

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEDN-Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V J47=347V ³ 480-480V ⁴	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5M0=Type V Square Medium 5W0=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	Blank=Arm for Round or Square Pole EA=Extended Arm ⁴ MA=Mast Arm Adapter ⁵ WM=Wall Mount

Options (Add as Suffix)

- 2L=Two Circuits^{4,7}
- 7030=70 CRI 3000K⁴
- 7060=70 CRI 6000K⁴
- 530=Drive Current Factory Set to 530mA⁸
- 700=Drive Current Factory Set to 700mA⁸
- P=Button Type Photocontrol (120, 208, 240 or 277V)
- R=NEMA Twistlock Photocontrol Receptacle
- HA=50°C High Ambient⁷
- MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{10, 15, 16, 17}
- MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{10, 15, 16, 17}
- MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{10, 15, 16, 17}
- MS/X-L08-Bi-Level Motion Sensor, Maximum 8' Mounting Height^{10, 15, 16, 17}
- MS/X-L20-Bi-Level Motion Sensor, 9' - 20' Mounting Height^{10, 15, 16, 17}
- MS/X-L40-Ri-Level Motion Sensor, 21' - 40' Mounting Height^{10, 15, 16, 17}
- DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height¹⁴
- DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height¹⁴
- L90=Optics Rotated 90° Left
- R90=Optics Rotated 90° Right
- MT=Factory Installed Mesh Top
- TH=Tool-less Door Hardware
- LCF=Light Square Trim Plate Painted to Match Housing
- HSS=Factory Installed House Side Shield¹⁶

Accessories (Order Separately)

- OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
- OA/RA1027=NEMA Photocontrol - 480V
- OA/RA1201=NEMA Photocontrol - 347V
- OA/RA1013=Photocontrol Shorting Cap
- OA/RA1014=120V Photocontrol
- MA1252=10kV Surge Module Replacement
- MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
- MA1037-XX-2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1197-XX-3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1188-XX-4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1189-XX-2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1190-XX-3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1191-XX-2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon
- MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
- MA1039-XX-2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon
- MA1192-XX-3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon
- MA1193-XX-4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
- MA1194-XX-2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
- MA1195-XX-3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon
- FSIR-100=Wireless Configuration Tool for Occupancy Sensor¹⁴
- GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
- GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
- GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
- GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
- LS/HSS=Field Installed House Side Shield^{16, 17}

Notes:

1. DesignLights Consortium Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Standard 4000K CCT and minimum 70 CRI
3. Requires the use of a step-down transformer when combined with MS/DIM, MS/X or DIMRF.
4. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to zero mounting requirement table.
5. Factory installed.
6. 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
7. Not available with LumaWatt wireless sensors.
8. Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
9. 1 Amp standard. Use dedicated IES files for 520mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
10. Consult factory for more information.
11. Replaces E1 with specific voltage.
12. The FSIR-100 accessory is required to adjust parameters.
13. Not available with HA option.
14. LumaWatt wireless sensors are factory installed only requiring network components: RF EM1, RF GW1 and RF ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
15. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
16. This tool enables adjustment of parameters including high/low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
17. One required for each Light Square.

Cooper Lighting
by **EATON**

Eaton
5275 Tamiami Trail
Jacksonville, FL 32242
1-800-845-5009
Eaton.com

Eaton's Cooper Lighting Business
1121 Highway 11 South
Rockledge, FL 32955
772-980-6000
www.cooperlighting.com

Specifications and
dimensions subject to
change without notice.

AOH140426
2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-SL4-530-HSS-BZ
+ SSP20-4.0-11-BRZ-DM2090-BC
Notes:

Type:
S11
LAI14-51763

5/30/2014

www.kwindustries.com/SubmitSheet.asp



SSP Square Non-Tapered Steel Poles



SSP

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Bolt Circle: 8.00" Sq. Dim. : 8.00" Thickness: 0.75" Conduit Opening: 3"
Consult KW representative for non-standard dimensions.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" inside opening, located 1' - 6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finish

Standard - The exterior surface is cleaned with an alkaline rinse to remove surface contaminants and shot blasted to specifications as published by the Steel Structures Painting Council Standards SSPC-SP10 (near white). The exterior surface is chemically pretreated with an iron phosphate conversion coating then rinsed with ambient fresh water containing special surfactants and sealers forming a dry tight micro-crystalline coating. A polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils is standard on all color finishes. The internal surface including the powder coated area at the base-end is coated with **K SEAL**, a thermoplastic hydrocarbon resin system specially formulated for application over untreated steel surfaces, to a thickness of 3 mils. The internal coating shall contain special corrosion inhibitors and is capable of passing 1000 hours of salt spray exposure (ASTM B-117).

Series: **SSP** - Square Non-Tapered Steel Poles
Nominal Height: **20'** Base Diameter: **4.0"** Gauge: **11**
Finish: **BRZ** - Standard - Bronze
Mounting Designation: **DM2090** - Drilled for 2 Luminaires @ 90°
Options: **BC** - Base Cover

*****VERIFY POLE HEIGHT*****

Height (ft.)	Pole Shaft (in.) x (ft.)	Gauge	Handhole Size (in.)	Anchor Bolt (in.) x (in.) x (in.)	Bolt Circle (in.)	80 MPH (ft.-2)	90 MPH (ft.-2)	100 MPH (ft.-2)	Ship WT. (lbs.)
20	4 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151

➔ **SSP20-4.0-11-BRZ-DM2090-BC**

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Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
S.4151-***-14 + S.4172

Notes:

Type:

BLD

LAI14-51763

SISTEMALUX

SPECIFICATION SHEET

MINICOLUMN Ø5-1/2" → #S.4151- -
POINTED HEAD h = 31-1/2" VOLTAGE FINISH

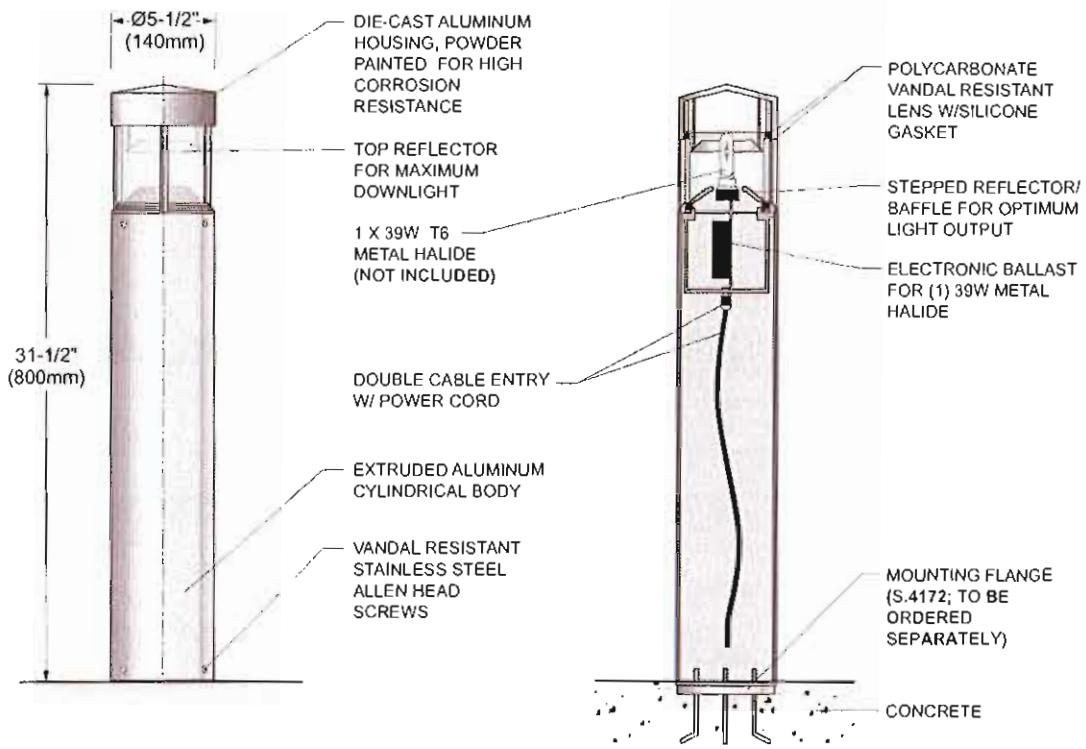
MINICOLUMN is a free-standing bollard fixture. An extruded aluminum body supports a die-cast optical assembly with a polycarbonate diffuser. The powder-paint finish ensures a high corrosion resistance.

LAMPING: 1 X 39W T6 METAL HALIDE, _____
G12 BASE

PROJECT NAME: _____

TYPE: _____ **QTY:** _____

LAST UPDATE: JULY 04, 2012



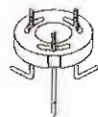
FRONT VIEW

SECTION VIEW

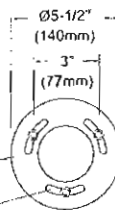
IP 65 IK 10

ACCESSORY
(TO BE ORDERED SEPARATELY)

→ **S.4172 - FLANGE AND STAINLESS STEEL SCREWS**
(TO BE ANCHORED IN CONCRETE)



MOUNTING PLATE MADE OF ALUMINUM AND FINISHED WITH EITHER BLACK OR ALUMINUM COLORED POWDER COATING.
ADJUSTMENT SLOTS FOR ACCURATE POSITIONING



SCREENING OF 1 OR 2 WINDOWS AVAILABLE ON REQUEST

VOLTAGE 120V 277V **SPECIFY**

METAL FINISH 09 - BLACK
→ 14 - ALUMINUM GREY



5455 de Gaspé
suite 100, Montréal (Québec)
Canada H2T 3B3
P.: 514.523.1339 F.: 514.525.6107

SISTEMALUX

MINICOLUMN Ø5-1/2"
POINTED HEAD h = 31-1/2"

DUE TO CONTINUOUS IMPROVEMENTS, THE INFORMATION HEREIN MAY BE CHANGED WITHOUT NOTICE

SA - R2

Submitted by LIGHTING ASSOCIATES, INC.

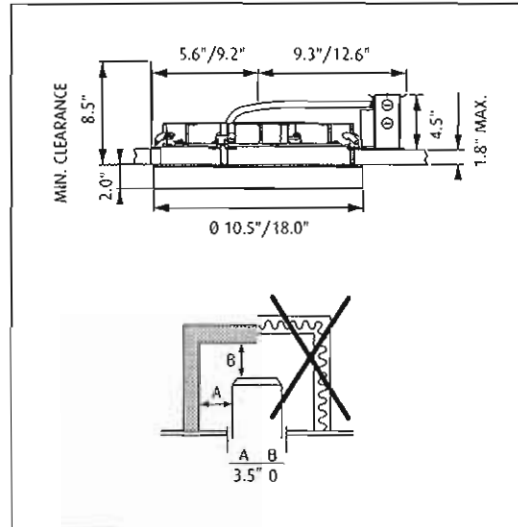


Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
LP-CIRC-SEMI-REC-10.3"-17W LED/
****K-120-277V-BLUE
Notes:

Type:
LP
LAI14-51763

LP Circle Semi Recessed



- Design** Mikkel Beedholm/XHR arkitekt
- Concept** The fixture emits diffuse light via a high-efficiency acrylic diffuser. The diffuser, which is encircled by a voluminous colored or white ring, is hidden when viewed from low angles. Angling the inner side of the ring 5° creates a comfortable and decorative graduation of the light from the diffuser. With two diameters and four different installation options, the lights series can be used for a wide range of applications.
- Finish** White, Blue, Red or Black. Powder coated.
- Material** Reflector: Deep drawn aluminium. Diffuser: Acrylic, frosted. Locks: Polyamide.
- Mounting** Mounting frame with four vertically adjustable brackets spaced equally to be installed after closing the ceiling. Mounting pan available as an accessory for installation prior to closing the ceiling. Ceiling types: Accessible and non-accessible ceilings. Ceiling cutout: 09.8" (for 010.3") and 017.1" (for 017.7").
- Weight** Max. 6.7 lbs. (for 010.3") and 11 lbs. (for 017.7").
- Label** cULus, Damp location, IBEW.

Product Code	Dimension	Light source	Voltage	Finish
LP-CIRC-SEMI-REC	Ø 10.3"	17W LED/3000K	120-277V	BLK
	Ø 17.7"	17W LED/4000K		BLUE
		30W LED/3000K		RED
		30W LED/4000K		WHF

- Specification notes**
- a. Ø 10.3" available only in 17W LED.
 - b. Ø 17.7" available only in 30W LED.
 - c. Provided with a 120-277V electronic driver with 0-10V dimming.

- Info notes**
- i. All LED wattages are system power.
 - ii. The innovation of the LED technology is constant. The specifications mentioned are based on present technology. Please find updated info on products on our website www.louispoulsen.com

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:

MITEK CORPORATION HEADQUARTERS - SITE
 Engineer: STOCK AND ASSOCIATES
 CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
 US6-509-000

Notes:

Type:

LT COL

LAI14-51763

RL70EP Series

Waldmann **W**
 ENGINEER OF LIGHT.



Applications: The RL70 Series of linear fluorescent tubular luminaires offers an ideal solution for a variety of lighting applications from rugged, large scale, outdoor installations, to sophisticated, intricately designed interior décor. The RL70 Series are compatible with almost all dimming control systems, and can be configured with a variety of T5 and T8 lamp options, as well as electronic ballasts mounted inside the luminaire or remotely. A variety of mounting options are available for endless design possibilities and ease of installation and maintenance of energy-efficient lighting solutions.

Part #		Type
Project		
Comments		Date
Prepared by		

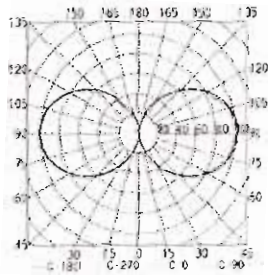
Sample Number: RL70EP - E - 32 - 120 - S - 41 - N

RL70EP - E-54-UNV-S-35-N

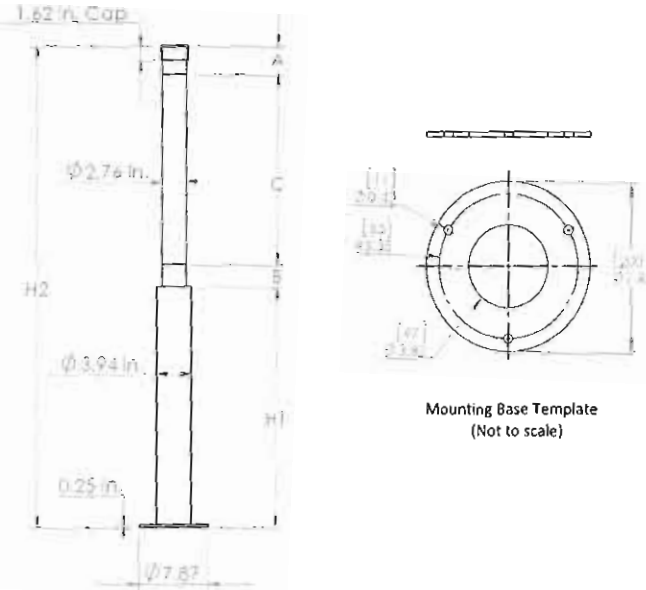
RL70EP	Ballast Type	Lamping	Voltage	Tube Color	Color Temp.	Cord (ft.) or (N)one
	STD. ELECTRONIC	54W TSHO	UNIVERSAL	SATINE	3500K	N

TECHNICAL SPECS:

1. Voltage: 120-27V, 50/60Hz
2. Lamp Technology: 1 x Fluorescent T5, T5HO, or T8
3. Ballast: Standard Electronic, Integrated or Remote
Optional Dimming
4. Waterproof: IP67 protection
5. Tube: PMMA Polymer Acrylic; Clear or Satine
6. Light Distribution: 360°
7. Cable Gland: located at end cap, sealed with "O" ring
8. Cord: Optional, not included
9. Dimensions: $\phi 70$ mm (2.8 in.); length varies by lamp type
10. Safety: ETL/cETL



Shown for 32W T8
 Complete IES files available at
www.waldmannlighting.com



Total Height (H2)	Illuminated (C)	Non-Illuminated		Base (H1)
		(A)	(B)	
		187.3 mm (7.3 in.)	187.3 mm (7.3 in.)	673.0 mm (26.5 in.)

Waldmann Lighting Company
 39 West Century Drive
 Wheeling, IL 60090

www.waldmannlighting.com
 Tel (800) 634-0007
 Fax (847) 520-1730

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials. Technical specifications (sheets that appear on www.waldmannlighting.com) are the most recent versions and supersede all other versions that exist in any other printed or electronic form.



Date: May 30, 2014

LIGHTING ASSOCIATES, INC.
3216 S. BRENTWOOD BLVD.
WEBSTER GROVES MO 63119
Phone: (314) 531-3500
Fax: (314) 531-3737

Job Name
MITEK CORPORATION HEADQUARTERS - SITE
LA114-51763
CHESTERFIELD MO
PART 1 OF 2

Bid Date
May 27, 2014

Submittal Date
May 27, 2014

Engineer:
STOCK AND ASSOCIATES CONSULTING ENGINEERS
257 CHESTERFIELD BUSINESS PARKWAY
SAINT LOUIS MO 63005



Transmittal

LIGHTING ASSOCIATES, INC.
3216 S. BRENTWOOD BLVD.
WEBSTER GROVES MO 63119
Phone: (314) 531-3500
From: John Schuebel

Project MITEK CORPORATION HEADQUARTERS -
SITE
Quote# LAI14-51763
Location CHESTERFIELD MO
To STOCK AND ASSOCIATES CONSULTING ENGINEERS
257 CHESTERFIELD BUSINESS PARKWAY
SAINT LOUIS MO 63005
Contact:

ATTACHED WE ARE SENDING YOU 1 COPIES OF THE FOLLOWING ITEMS:

- Drawings
- Prints
- Plans
- Specifications
- Information
- Submittals
- Other:

THESE ARE TRANSMITTED FOR:

- Prior Approval
- Approval
- Approval as Submitted
- Approval as Noted
- Resubmittal for Approval
- Corrections
- Your Use
- Review and Comment
- Record
- Bids due on:
- Other:

Qty	Type	MFG	Part
4	S2	MCGRAW	GLEON-AE-03-LED-E1-5WQ-530-BZ + SSP20-4.0-11-BRZ-DM10-BC
5	S2-2	MCGRAW	GLEON-AE-02-LED-E1-5WQ-700-BZ + SSP20-4.0-11-BRZ-DM10-BC
2	S3-3	MCGRAW	GLEON-AE-01-LED-E1-SL3-HSS-BZ + SSP20-4.0-11-BRZ-DM10-BC
8	S5	MCGRAW	GLEON-AE-02-LED-E1-SL4-530-HSS-BZ + SSP20-4.0-11-BRZ-DM10-BC
3	S10	MCGRAW	GLEON-AE-01-LED-E1-5MQ-BZ + SSP20-4.0-11-BRZ-DM10-BC
1	S11	MCGRAW	GLEON-AE-02-LED-E1-SL4-530-HSS-BZ + SSP20-4.0-11-BRZ-DM2090-BC
12	BLD	SISTEMALUX GROUP	S.4151-***.14 + S.4172
20	LP	LOUIS POULSEN	LP-CIRC-SEMI-REC-10.3"-17W LED/ ***K-120-277V-BLUE
8	LT COL	WALDMANN LIGHTING	US6-509-000

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:

MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

GLEON-AE-03-LED-E1-5WQ-530-BZ
+ SSP20-4.0-11-BRZ-DM10-BC

Notes:

Type:

S2

LAI14-51763

McGraw-Edison®



DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #	Type
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

Housing finished in super durable TGIC polyester powder coat paint. 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



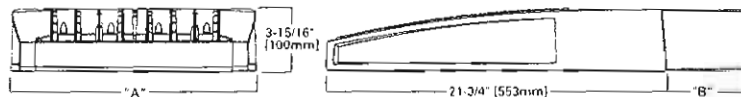
GLEON GALLEON LED

1-10 Light Squares
Solid State LED

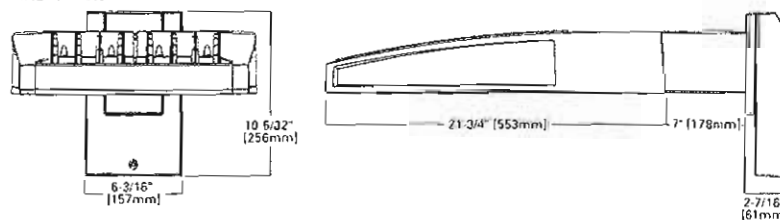
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length*	Weight with Arm (lbs.)	EPA with Arm †
1-4	15-1/2" (394mm)	7" (178mm)	9" (229mm)	33 (15.0 kgs)	3.06
5-8	21-3/8" (549mm)	7" (178mm)	10" (254mm)	46 (20.9 kgs)	3.00
7-8	22" (559mm)	7" (178mm)	15" (381mm)	54 (24.5 kgs)	1.07
3-10	33-5/4" (857mm)	7" (178mm)	16" (406mm)	64 (29.0 kgs)	1.12

*NOTES: 1. Optional arm length is selected when mounting luminaire with wall mount. 2. EPA calculated with optional arm length.

Cooper Lighting
by **E.T.N.**



CERTIFICATION DATA

UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
ARRA Compliant
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



ADH140426

2014-05-12 08:15:51

*www.designlights.org

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

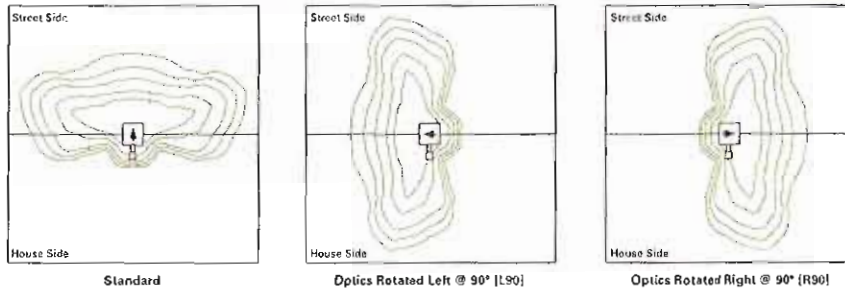
Catalog Number:
GLEON-AE-03-LED-E1-5WQ-530-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2

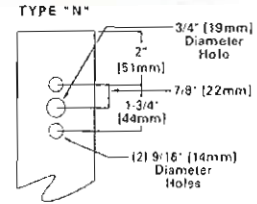
LAI14-51763

GLEON GALLEON LED

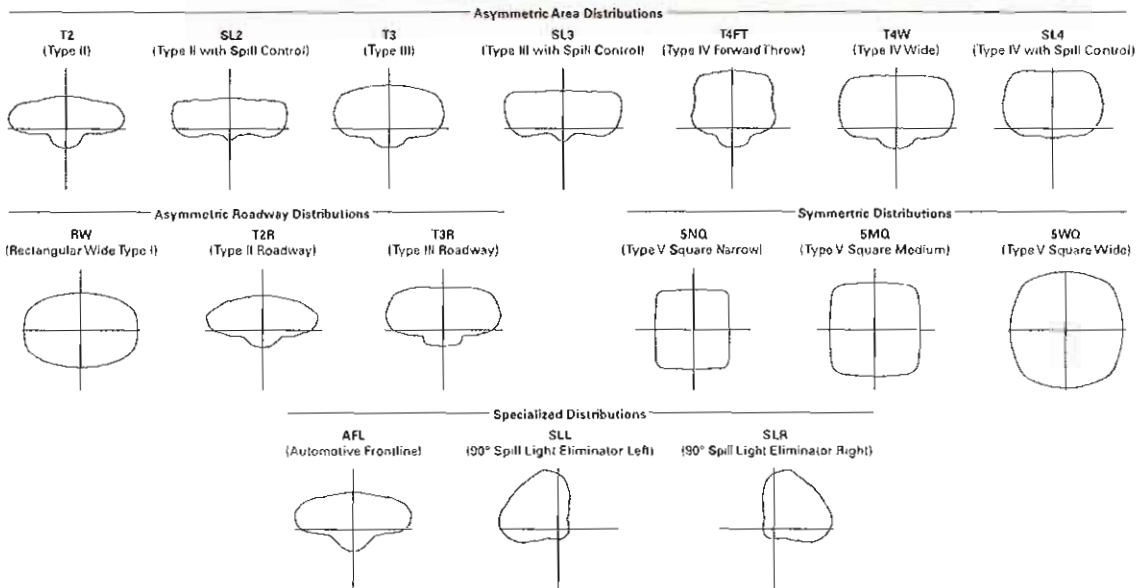
OPTIC ORIENTATION



DRILLING PATTERN

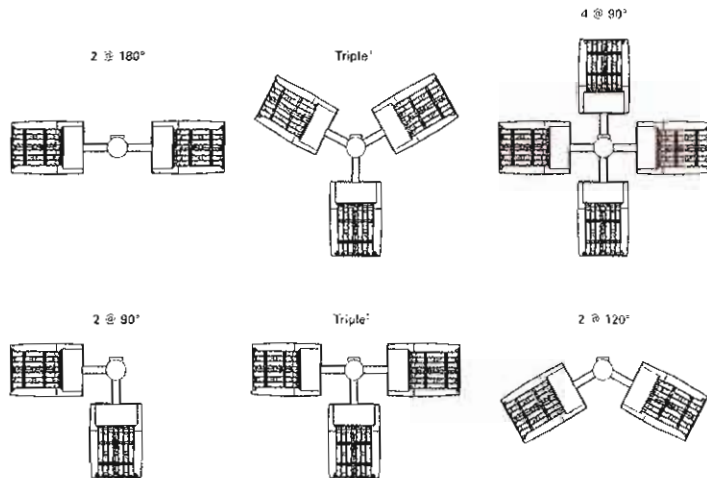


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-02	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-03	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-04	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-05	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-06	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-07	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-08	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-09	16' Extended Arm (Required)	16' Extended Arm (Required)
GLEON-AE-10	16' Extended Arm (Required)	16' Extended Arm (Required)



Cooper Lighting
by **E.T.N**

Eaton
1630 Piquette Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1121 Highway 28 South
Roanoke City, VA 24060
P: 770-680-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ADH140426
2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-03-LED-E1-5WQ-530-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2
LAI14-51763

GLEON GALLEON LED

NOMINAL POWER AND LUMENS (530MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	530mA	
Nominal Power (Watts)	30	54	80	105	130	159	184	209	234	259	
Input Current @ 120V (A)	0.25	0.45	0.66	0.86	1.07	1.32	1.52	1.72	1.93	2.14	
Input Current @ 208V (A)	0.17	0.28	0.39	0.51	0.63	0.78	0.9	1.02	1.14	1.26	
Input Current @ 240V (A)	0.17	0.25	0.35	0.45	0.55	0.70	0.80	0.90	1.00	1.10	
Input Current @ 277V (A)	0.19	0.24	0.32	0.40	0.49	0.64	0.72	0.80	0.89	0.98	
Optics											
T2	Lumens	3,079	6,017	8,978	11,862	14,897	17,988	20,900	23,567	26,289	29,106
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T2R	Lumens	3,269	6,368	9,531	12,593	15,603	18,672	22,082	25,020	27,909	30,900
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
T3	Lumens	3,138	6,133	9,150	12,091	14,980	17,926	21,200	24,021	26,795	29,667
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	Lumens	3,208	6,289	9,354	12,359	15,313	18,325	21,671	24,555	27,590	30,326
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	Lumens	3,156	6,168	9,203	12,161	15,067	18,030	21,323	24,160	26,950	29,839
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T4W	Lumens	3,116	6,088	9,084	12,004	14,872	17,797	21,047	23,848	26,602	29,453
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL2	Lumens	3,074	6,006	8,962	11,842	14,672	17,558	20,784	23,527	26,244	28,056
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	Lumens	3,138	6,132	9,149	12,089	14,978	17,924	21,197	24,018	26,791	29,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	Lumens	2,981	5,826	8,693	11,486	14,231	17,030	20,140	22,820	25,456	28,184
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5
SNQ	Lumens	3,236	6,324	9,437	12,469	15,449	18,487	21,653	24,773	27,834	30,595
	BUG Rating	B1-U0-G0	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2
SMD	Lumens	3,296	6,441	9,610	12,699	15,733	18,828	22,266	25,229	28,142	31,158
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	Lumens	3,305	6,458	9,635	12,732	15,775	18,878	22,325	25,295	28,217	31,241
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	2,757	5,388	8,040	10,623	13,162	15,751	18,627	21,105	23,540	26,068
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
RW	Lumens	3,207	6,267	9,351	12,356	15,309	18,320	21,666	24,549	27,384	30,319
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3
AFL	Lumens	3,219	6,290	9,385	12,401	15,365	18,387	21,745	24,638	27,484	30,429
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-03-LED-E1-5WQ-530-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2
LAI14-51763

GLEON GALLEON LED

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 360,000
40°C	> 93%	> 290,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ³ 480=480V ³	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide SND=Type V Narrow SMO=Type V Square Medium SWO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁴ MA=Mini Arm Adapter ⁵ WM=Wall Mount
Options (Add as Suffix)					Accessories (Order Separately)		
2L=Two Circuits ^{6,7} 7030=70 CRI 3000K ⁸ 6060=70 CRI 6000K ⁸ 530=Drive Current Factory Set to 530mA ⁹ 700=Drive Current Factory Set to 700mA ⁹ P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ⁷ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{10, 11, 12} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{10, 11, 12} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{10, 11, 12} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{10, 11, 12} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{10, 11, 12} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{10, 11, 12} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁴ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁴ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCP=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹⁶					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 30° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 30° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁵ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield ^{16, 17}		

- Notes:**
- DesignLights Consortium Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Standard 4000 CCT and minimum 70 CRI.
 - Requires the use of a step down transformer when combined with MS/DIM, MS-X or DIMRE.
 - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
 - Factory installed.
 - 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE 04 requires a larger housing, normally used for AE-05 or AE-06.
 - Not available with LumaWatt wireless sensors.
 - Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - Consult factory for more information.
 - Replace E1 with specific voltage.
 - The FSIR-100 accessory is required to adjust parameters.
 - Not available with HA option.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
 - One required for each Light Square.

Cooper Lighting
by EATON

Eaton
1030 Easton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1511 Highway 24 South
Peachtree City, GA 30669
P. 770-986-4600
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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2014-05-12 08:15:51



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-03-LED-E1-5WQ-530-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

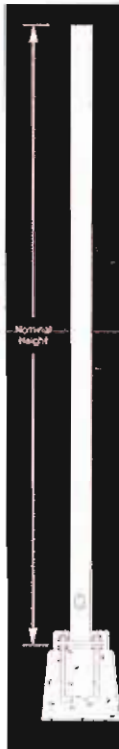
Type:
S2

LA114-51763

<http://www.kwindustries.com/SubmitSheet.a>



SSP Square Non-Tapered Steel Poles



SSP

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Bolt Circle: 8.00" Sq. Dim. : 8.00" Thickness: 0.75" Conduit Opening: 3"
Consult KW representative for non-standard dimensions.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" inside opening, located 1' - 6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finish

Standard - The exterior surface is cleaned with an alkaline rinse to remove surface contaminants and shot blasted to specifications as published by the Steel Structures Painting Council Standards SSPC-SP10 (near white). The exterior surface is chemically pretreated with an iron phosphate conversion coating then rinsed with ambient fresh water containing special surfactants and sealers forming a dry tight micro-crystalline coating. A polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils is standard on all color finishes. The internal surface including the powder coated area at the base-end is coated with **K SPAL**, a thermoplastic hydrocarbon resin system specially formulated for application over untreated steel surfaces, to a thickness of 3 mils. The internal coating shall contain special corrosion inhibitors and is capable of passing 1000 hours of salt spray exposure (ASTM B-117).

Series: **SSP** - Square Non-Tapered Steel Poles
Nominal Height: **20'** Base Diameter: **4.0"** Gauge: **11**
Finish: **BRZ** - Standard - Bronze
Mounting Designation: **DM10** - Drilled for 1 Luminaire
Options: **BC** - Base Cover

*****VERIFY POLE HEIGHT*****

Height (ft.)	Pole Shaft (in.) x (ft.)	Gauge	Handhole Size (in.)	Anchor Bolt (in.) x (in.) x (in.)	Bolt Circle (in.)	80 MPH (ft.²)	90 MPH (ft.²)	100 MPH (ft.²)	Ship WT. (lbs.)
20	4 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151

SSP20-4.0-11-BRZ-DM10-BC

[Print This Page](#) [Email This Page](#)

[Generate New SSP Logic](#) [Choose Different Pole Type](#) [Main Menu](#)



Terms and Conditions of Sale

TERMS

Net 30 days from the date of Company's invoice unless otherwise specified. A 1-1/2% per month late charge will be added to accounts past due.

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-5WQ-700-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2-2
LA114-51763

McGRAW-EDISON®

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

Catalog #		Type	
Project		Date	
Comments			
Prepared by			

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum and caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty
Five-year warranty.



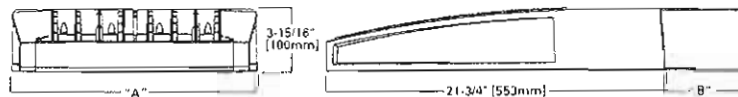
**GLEON
GALLEON LED**

1-10 Light Squares
Solid State LED

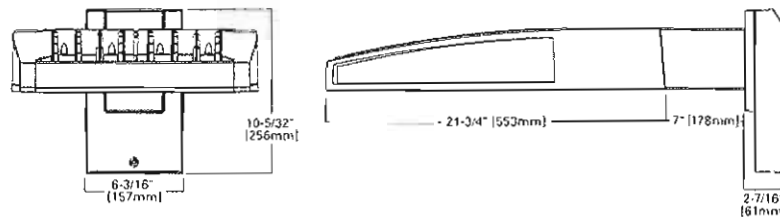
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-3	15-1/2" (393mm)	7" (178mm)	10" (254mm)	3.1 (15.0 kgs.)	0.05
5-6	21-5/8" (551mm)	7" (178mm)	10" (254mm)	4.4 (2.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	10" (254mm)	5.4 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	10.5 (50.0 kgs.)	1.12

NOTES: 1. Minimum arm length to be used after mounting to pole or wall. 2. EPA calculated with optional arm length.

Cooper Lighting
by **E-T-N**

www.designlights.org



CERTIFICATION DATA
ULcUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
ARRA Compliant
IP66 Rated
DesignLights Consortium³ Qualified⁴

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



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Submitted by LIGHTING ASSOCIATES, INC.



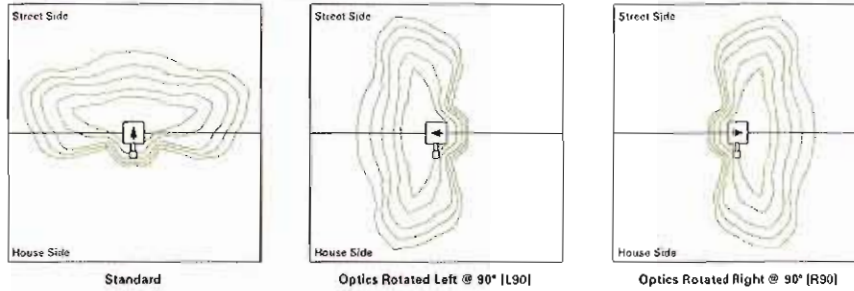
Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-5WQ-700-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

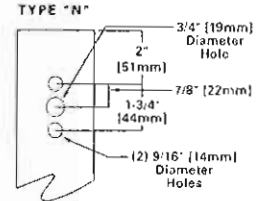
Type:
S2-2
LA114-51763

GLEON GALLEON LED

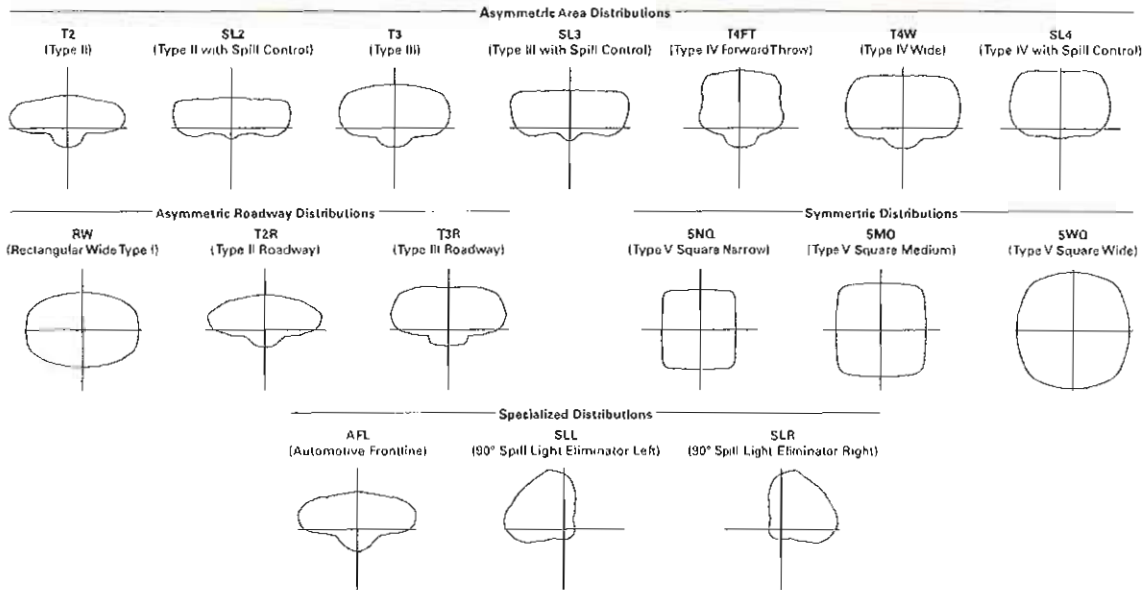
OPTIC ORIENTATION



DRILLING PATTERN

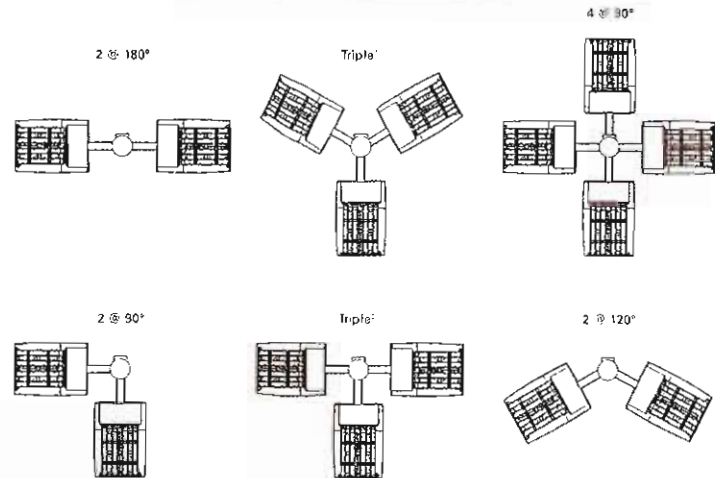


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-02	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-03	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-04	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-05	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-06	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-07	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-08	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-09	16' Extended Arm (Required)	16' Extended Arm (Required)
GLEON-AE-10	16' Extended Arm (Required)	16' Extended Arm (Required)



Cooper Lighting
by **EATON**

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1121 Highways 71 South
Aurora, CO 80013
P: 770-385-4000
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-5WQ-700-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2-2
LAI14-51763

GLEON GALLEON LED

NOMINAL POWER AND LUMENS (700MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	700mA	
Nominal Power (Watts)	38	72	105	138	176	210	243	276	314	348	
Input Current @ 120V (A)	0.32	0.59	0.86	1.14	1.45	1.72	2	2.28	2.58	2.86	
Input Current @ 208V (A)	0.21	0.36	0.51	0.67	0.87	1.02	1.18	1.34	1.53	1.69	
Input Current @ 240V (A)	0.19	0.32	0.45	0.59	0.77	0.90	1.04	1.18	1.35	1.49	
Input Current @ 277V (A)	0.20	0.28	0.40	0.51	0.69	0.80	0.91	1.02	1.20	1.31	
Optics											
T2	Lumens	3,854	7,531	11,237	14,847	18,395	22,013	26,033	29,497	32,904	36,430
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	Lumens	4,091	7,995	11,929	15,762	19,529	23,370	27,638	31,816	34,932	38,676
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	Lumens	3,928	7,676	11,453	15,133	18,750	22,437	26,534	30,065	33,537	37,132
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	Lumens	4,015	7,846	11,707	15,469	19,166	22,908	27,124	30,733	34,283	37,957
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	Lumens	3,951	7,720	11,519	15,221	18,858	22,567	26,688	30,240	33,732	37,347
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	3,900	7,620	11,370	15,024	18,615	22,276	26,343	29,849	33,296	36,884
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	Lumens	3,847	7,518	11,217	14,821	18,364	21,975	25,988	29,447	32,847	36,368
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	Lumens	3,927	7,675	11,451	15,131	18,747	22,434	26,531	30,061	33,533	37,126
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	Lumens	3,731	7,292	10,880	14,376	17,812	21,315	25,208	28,562	31,861	35,275
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5N0	Lumens	4,051	7,916	11,811	15,606	19,336	23,109	27,365	31,006	34,587	38,294
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5M0	Lumens	4,125	8,062	12,029	15,894	19,692	23,565	27,869	31,577	35,221	38,999
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5WQ	Lumens	4,196	8,083	12,061	15,936	19,745	23,628	27,943	31,661	35,318	39,103
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	Lumens	3,451	6,744	10,063	13,296	16,474	19,714	23,314	26,416	29,467	32,625
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	Lumens	4,014	7,844	11,704	15,465	19,162	22,930	27,118	30,726	34,274	37,848
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	Lumens	4,029	7,873	11,747	15,522	19,231	23,014	27,216	30,838	34,399	38,086
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 4000K CCT.

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-02-LED-E1-5WQ-700-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S2-2
LA114-51763

GLEON GALLEON LED

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	11=120-277V 347=347V ³ 480=480V ³	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide SNQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I APL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	(Blank)=Arm for Round or Square Pole EA=Extended Arm ⁴ MA=Mount Adapter ⁵ WM=Wall Mount
Options (Add as Suffix)					Accessories (Order Separately)		
2L=Two Circuits ^{6,7} 7030=70 CRI 3000K ⁸ 7060=70 CRI 6000K ⁸ 530=Drive Current Factory Set to 530mA ⁹ 700=Drive Current Factory Set to 700mA ⁹ P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ⁷ MS/OIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{10, 11, 12, 13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{10, 11, 12, 13} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{10, 11, 12, 13} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{14, 15, 16} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{14, 15, 16} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{14, 15, 16} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ¹⁴ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 15' - 40' Mounting Height ¹⁴ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹⁷					QA/RA1016=NEMA Photocontrol Multi-Tap - 10S-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁵ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield ^{18, 19}		

- Notes**
- Design/Lights Consumed. Qualified. Refer to www.ieslighting.org Qualified Products List under Family Models for details.
 - Standard 4000K CCT and minimum 70 CRI.
 - Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF.
 - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
 - Factory installed.
 - 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
 - Not available with LumaWatt wireless sensors.
 - Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - Consult factory for more information.
 - Replace E1 with specific voltage.
 - The FSIR-100 accessory is required to adjust parameters.
 - Not available with MA option.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GWI and RF-ROUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
 - One required for each Light Square.

Cooper Lighting
by EATON

Eaton
1300 Eaton Boulevard
Cleveland, OH 44112
United States
eaton.com

Eaton's Cooper Lighting Business
1721 Highway 22 South
Richmond, VA 23261
P: 770-420-6900
www.submittlighting.com

Specifications and
drawings subject to
change without notice.

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2014-05-12 08:15:51



Job Name:
 MITEK CORPORATION HEADQUARTERS - SITE
 Engineer: STOCK AND ASSOCIATES
 CONSULTING ENGINEERS (SAINT LOUIS)

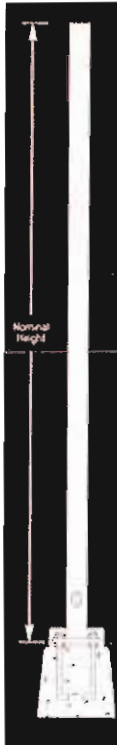
Catalog Number:
 GLEON-AE-02-LED-E1-5WQ-700-BZ
 + SSP20-4.0-11-BRZ-DM10-BC
 Notes:

Type:
S2-2
 LAH4-51763

<http://www.kwindustries.com/SubmitSheet.a>



SSP Square Non-Tapered Steel Poles



SSP

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Bolt Circle: 8.00" **Sq. Dim.:** 8.00" **Thickness:** 0.75" **Conduit Opening:** 3"
 Consult KW representative for non-standard dimensions.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" inside opening, located 1' - 6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finish

Standard - The exterior surface is cleaned with an alkaline rinse to remove surface contaminants and shot blasted to specifications as published by the Steel Structures Painting Council Standards SSPC-SP10 (near white). The exterior surface is chemically pretreated with an iron phosphate conversion coating then rinsed with ambient fresh water containing special surfactants and sealers forming a dry tight micro-crystalline coating. A polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils is standard on all color finishes. The internal surface including the powder coated area at the base-end is coated with **NSPM**, a thermoplastic hydrocarbon resin system specially formulated for application over untreated steel surfaces, to a thickness of 3 mils. The internal coating shall contain special corrosion inhibitors and is capable of passing 1000 hours of salt spray exposure (ASTM B-117).

Series: **SSP** - Square Non-Tapered Steel Poles
 Nominal Height: **20'** Base Diameter: **4.0"** Gauge: **11**
 Finish: **BRZ** - Standard - Bronze
 Mounting Designation: **DM10** - Drilled for 1 Luminaire
 Options: **BC** - Base Cover

*****VERIFY POLE HEIGHT*****

Height (ft.)	Pole Shaft (in.) x (ft.)	Gauge	Handhole Size (in.)	Anchor Bolt (in.) x (in.) x (in.)	Bolt Circle (in.)	80 MPH (ft. ²)	90 MPH (ft. ²)	100 MPH (ft. ²)	Ship WT. (lbs.)
20	4 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151

SSP20-4.0-11-BRZ-DM10-BC

[Print This Page](#) [Email This Page](#)

[Generate New SSP Logic](#) [Choose Different Pole Type](#) [Main Menu](#)



Terms and Conditions of Sale

TERMS

Net 30 days from the date of Company's invoice unless otherwise specified. A 1-1/2% per month late charge will be added to accounts past due.

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-SL3-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S3-3
LAI14-51763

McGraw-Edison®



DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated.

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Choice of 16 patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 6000K CCT and 3000K CCT. For the ultimate level of spill light control, an optional house side shield accessory can

be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Standard with 0-10V dimming. Shipped standard with Cooper Lighting proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 530mA and 700mA drive currents.

Mounting

Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during

assembly. Designed for pole or wall mounting. When mounting two or more luminaires at 90° or 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole top adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



GLEON GALLEON LED

1-10 Light Squares
Solid State LED

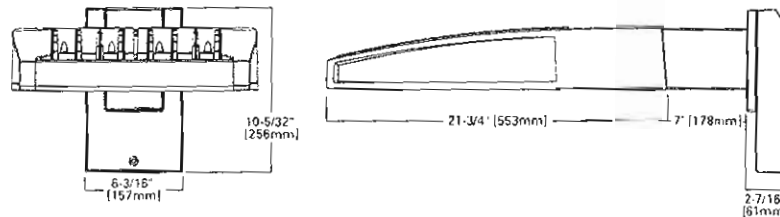
AREA/SITE LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm 2 (Sq Ft)
1-4	15-1/2" (393mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	3.96
5-6	21-5/8" (549mm)	7" (178mm)	12" (305mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° with a single arm. 2. EPA calculated with standard arm length.

Cooper Lighting
by **E.T.N.**

www.designlights.org



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
ARRA Compliant
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



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Submitted by LIGHTING ASSOCIATES, INC.



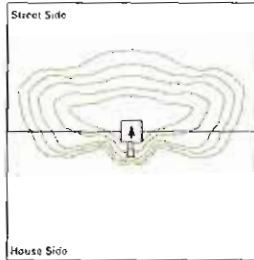
Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-SL3-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

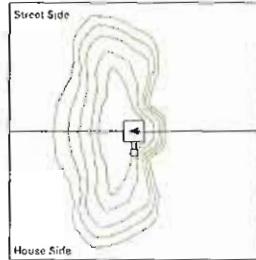
Type:
S3-3
LAI14-51763

GLEON GALLEON LED

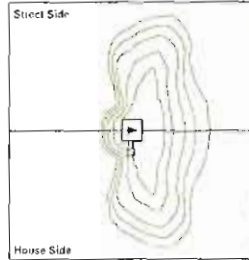
OPTIC ORIENTATION



Standard

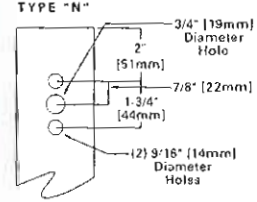


Optics Rotated Left @ 90° [L90]

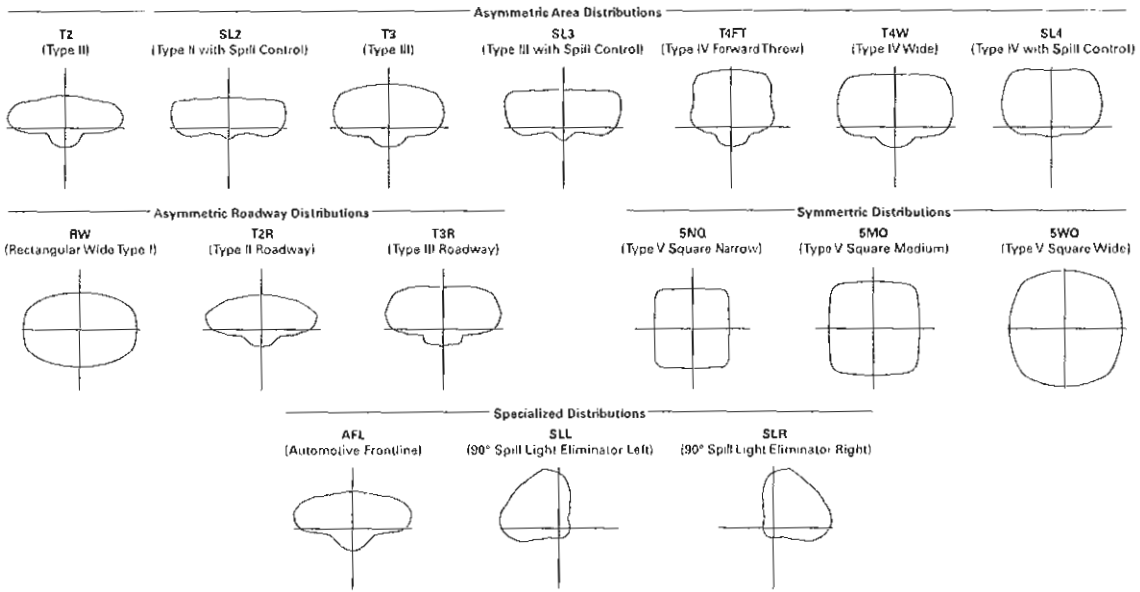


Optics Rotated Right @ 90° [R90]

DRILLING PATTERN

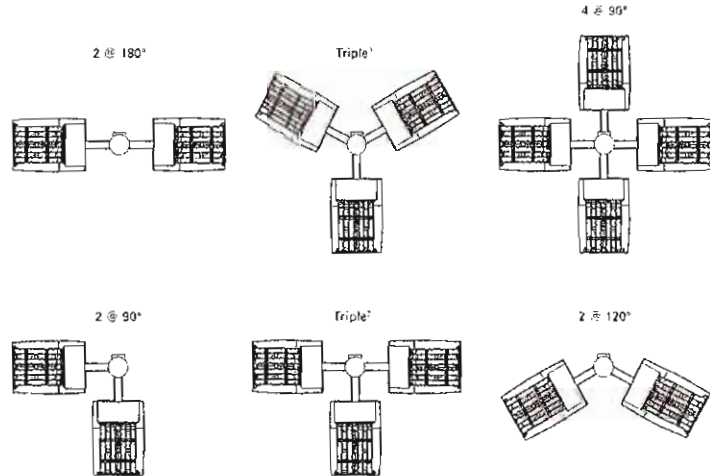


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AE-01	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-02	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-03	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-04	7' Arm (Standard)	7' Arm (Standard)
GLEON-AE-05	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-06	10' Extended Arm (Required)	7' Arm (Standard)
GLEON-AE-07	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-08	13' Extended Arm (Required)	13' Extended Arm (Required)
GLEON-AE-09	16' Extended Arm (Required)	16' Extended Arm (Required)
GLEON-AE-10	16' Extended Arm (Required)	16' Extended Arm (Required)



Cooper Lighting
by **E-T-N**

Eaton
1475 Eaton Building
Cincinnati, OH 45202
4108 States
Eaton.com

Eaton's Cooper Lighting Business
1127 Highway 24 South
Rochester, NY 14624
970-882-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

ADH140426
2014-05-12 08:15:51

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-SL3-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S3-3
LAI14-51763

GLEON GALLEON LED

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Drive Current		1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Nominal Power (Watts)		56	107	157	213	264	315	370	421	475	528
Input Current @ 120V (A)		0.47	0.90	1.31	1.79	2.21	2.64	3.09	3.51	3.96	4.41
Input Current @ 208V (A)		0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50
Input Current @ 240V (A)		0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20
Input Current @ 277V (A)		0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,321	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,669	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,790	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,556	20,555	25,468	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,667	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,866	19,669	24,370	29,163	34,468	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SNO	Lumens	5,542	10,830	16,160	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
SMO	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,358
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
SWO	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	Lumens	4,722	9,227	13,787	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,693	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT

Submitted by LIGHTING ASSOCIATES, INC.



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-SL3-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S3-3
LA114-51763

GLEON GALLEON LED

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C	> 90%	> 170,000

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-700

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AE=IA Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ³ 480=480V ³	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NO=Type V Narrow 5MO=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WR=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁴ MA= Mast Arm Adapter ⁵ WM=Wall Mount

Options (Add as Suffix)	Accessories (Order Separately)
2L=Two Circuits ^{6,7} 7030=70 CRI 3000K ⁸ 7060=70 CRI 6000K ⁸ 530=Drive Current Factory Set to 530mA ⁹ 700=Drive Current Factory Set to 700mA ⁹ P=Button Type Photocontrol (120, 208, 240 or 277V) R=NEMA Twistlock Photocontrol Receptacle HA=50°C High Ambient ¹⁰ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{11, 12, 13} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{12, 13, 14, 15} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{12, 13, 14, 15} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{12, 13, 14} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{12, 13} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{12, 13} DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 18' Mounting Height ¹⁴ DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ¹⁴ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield ¹⁵	QA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V QA/RA1027=NEMA Photocontrol - 480V QA/RA1201=NEMA Photocontrol - 347V QA/RA1013=Photocontrol Shorting Cap QA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁶ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield ^{15, 16}

- Notes**
- DesignLights Consortium - Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Standard 4000K CCT and minimum 70 CRI
 - Requires the use of a step down transformer when combined with TMS/DIAL, MS-X or DIMRF
 - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table
 - Factory installed.
 - 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
 - Not available with LumaWatt wireless sensors.
 - Extended lead times apply. Use dedicated IES files for 3000K and 6000K when performing layouts. These lists are published on the Galleon luminaires product page on the website.
 - 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Galleon luminaires product page on the website.
 - Consult factory for more information.
 - Replace E1 with specific voltage.
 - The FSIR-100 accessory is required to adjust parameters.
 - Not available with HA option.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM1, RF-GW1 and RF-RQUT1 in appropriate quantities. See www.cooperlighting.com for LumaWatt application information.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 - This touchless occupancy sensor has a wide range of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your Eaton's Cooper Lighting business representative for additional details.
 - One required for each Light Square.

Cooper Lighting
by **EATON**

Eaton
1905 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1121 Highway 75 South
Lawrenceville, GA 30046
P: 770-486-8889
www.cooperlighting.com

Specify luminaire and accessories using the following website:

AOH140426
2014-05-12 08:15:51



Job Name:
MITEK CORPORATION HEADQUARTERS - SITE
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
GLEON-AE-01-LED-E1-SL3-HSS-BZ
+ SSP20-4.0-11-BRZ-DM10-BC
Notes:

Type:
S3-3
LA114-51763

<http://www.kwindustries.com/SubmitSheet.asp>



SSP Square Non-Tapered Steel Poles



SSP

Pole Shaft

The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"). The pole shaft material shall conform to ASTM A-500 Grade C with a minimum yield strength of 50,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate

The anchor base is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is circumferentially welded top and bottom. All welds are performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Boit Circle: 8.00" Sq. Dim. : 8.00" Thickness: 0.75" Conduit Opening: 3"
Consult KW representative for non-standard dimensions.

Anchor Bolts

Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Four properly sized anchor bolts, each with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded end galvanized a minimum of 8 inches in accordance with ASTM A-153. Fully galvanized anchor bolts are available upon request.

Handhole

An oval reinforced gasketed handhole, having a nominal 3" x 5" inside opening, located 1' - 6" above base, is standard on all poles. A grounding provision is located inside the handhole ring.

Finish

Standard - The exterior surface is cleaned with an alkaline rinse to remove surface contaminants and shot blasted to specifications as published by the Steel Structures Painting Council Standards SSPC-SP10 (near white). The exterior surface is chemically pretreated with an iron phosphate conversion coating then rinsed with ambient fresh water containing special surfactants and sealers forming a dry tight micro-crystalline coating. A polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils is standard on all color finishes. The internal surface including the powder coated area at the base-end is coated with **SSP-1**, a thermoplastic hydrocarbon resin system specially formulated for application over untreated steel surfaces, to a thickness of 3 mils. The internal coating shall contain special corrosion inhibitors and is capable of passing 1000 hours of salt spray exposure (ASTM B-117).

Series: **SSP** - Square Non-Tapered Steel Poles
Nominal Height: **20'** Base Diameter: **4.0"** Gauge: **11**
Finish: **BRZ** - Standard - Bronze
Mounting Designation: **DM10** - Drilled for 1 Luminaire
Options: **BC** - Base Cover

*****VERIFY POLE HEIGHT*****

Height (ft.)	Pole Shaft (in.) x (ft.)	Gauge	Handhole Size (in.)	Anchor Bolt (in.) x (in.) x (in.)	Bolt Circle (in.)	80 MPH (ft. ²)	90 MPH (ft. ²)	100 MPH (ft. ²)	Ship WT. (lbs.)
20	4 x 20.0	11	3 x 5	0.75 x 17 x 3	8	12.3	9	6.5	151

SSP20-4.0-11-BRZ-DM10-BC

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Terms and Conditions of Sale

TERMS

Net 30 days from the date of Company's invoice unless otherwise specified. A 1-1/2% per month late charge will be added to accounts past due.



Job Name:
 MITEK CORPORATION HEADQUARTERS -
 INTERIOR
 Engineer: STOCK AND ASSOCIATES
 CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
 665-3220-RAL90** + 665-9331-
 RAL90**

Notes:

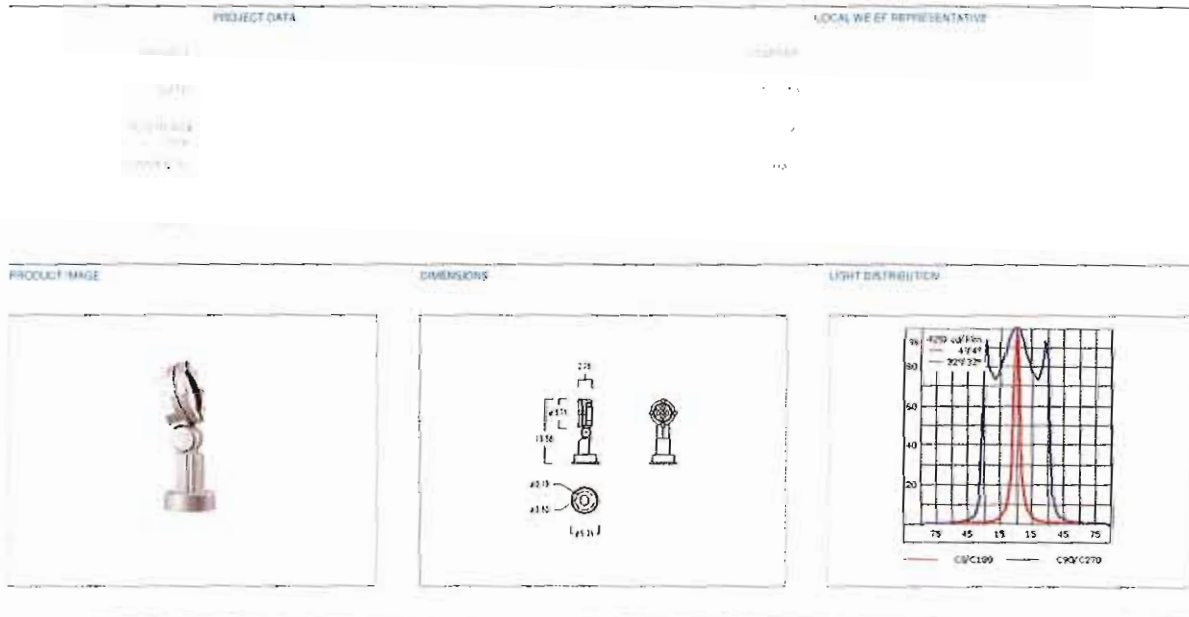
Type:

FLD2

LAI14-52687

665-3220+665-8135 FLC131 LED + IO-180° Projectors / Symmetric

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we-ef**PRODUCT DESCRIPTION**

PROJECT NO.: 665-3220+665-8135 FLC131 LED + IO-180° Projectors / Symmetric

BEAM TYPE: linear spread, very narrow beam, sharp cut off

LED TYPE: 12 LED white 24W (3000K)

MODEL: 2128

CONTROL GEAR: electronic gear

MANUFACTURER:

IP66. Surface mounted LED floodlight. Integral control gear. Special effects can be realized with linear lens, or flood lens.

TECHNICAL DATA

MATERIALS:
 Marine grade die cast aluminum alloy. SCE superior corrosion protection, including PCS hardware. Silicone rubber gasket. Clear, tempered glass lens. PMMA LED lens array.

ELECTRICAL:
 Integral [ECG] LED driver 120 or 277 volt. Specify voltage.
 Ambient Temperature: $T_a < 25^\circ \text{C}$

MOUNTING:
 Suitable for installation over a 4" recessed junction box, or direct to short post, planted root, or pipe clamps. Weight: 5.51 lbs.

FINISH:
 Powder coat finish in Black RAL9004, White RAL9016, and Grey Metallic RAL9007. Specify finish. Consult WE-EF color chart for other color options.

LISTINGS:
 UL, c UL listed. Suitable for Wet locations.
 International Protection Classification: IP66.

OPTICAL ACCESSORIES:
 Internal optical accessories:
 665-8139 (IO-180-FLC131 LED (linear spread lens))

External optical accessories:
 A maximum of (1) external optical accessory possible.
 665-9231 (EG-FLC131 (wire guard)), 665-9232 (ES-FLC131 (glare shield)), 665-9234 (ET-FLC131) (snoot)).

MOUNTING ACCESSORIES:
 IP66. Marine grade all aluminum construction. SCE superior corrosion protection including PCS hardware.

SHORT POST
 Marine grade die cast aluminum alloy. SCE corrosion protection. Suitable for direct mounting of floodlight to short post in landscaped areas, or for use with planted root, 665-9302.

**Job Name:**

MITEK CORPORATION HEADQUARTERS -
INTERIOR
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

665-3220-RAL90** + 665-9331-
RAL90**

Notes:

Type:**FLD2**

LAI14-52687

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665-9301. Short post EM1. 3.0 lbs.

PLANTED ROOT

Galvanized steel construction. Suitable for direct mounting to FLC100 SERIES floodlights for landscaped areas where it is desired for low level floodlight, or direct mounting to short post. Permits installations of floodlight without extensive need for concrete foundations.

665-9302. Planted root ESV. 10.0 lbs.

PIPE CLAMPS

Marine grade die cast aluminum alloy. 5CE protection superior corrosion protection. Suitable for installation of floodlight to pipe structure. Allows for floodlight to be rotated 360 deg. E.C. is required to drill pipe structure as required for power lead.

665-9311. Pipe clamp SP1-2/M8 for (1) floodlight. Ø 1.50" – 2.36" pipe structure. 3.0 lbs.

665-9321. Pipe clamp SP1-2/M8 for (1) floodlight. Ø 3.0" – 3.50" pipe structure. 3.0 lbs.

665-9312. Pipe clamp SP2-2/M8 for (2) floodlights. Ø 1.50" – 2.36" pipe structure. 3.0 lbs.

665-9322. Pipe clamp SP2-2/M8 for (2) floodlights. Ø 3.0" – 3.50" pipe structure. 3.0 lbs.

SURFACE MOUNTED JUNCTION BOX

Marine grade die cast aluminum alloy. 5CE superior corrosion protection. Suitable for installation of floodlight to building surface for use with surface conduit. Junction box is provided with (3), ½" threaded conduit entries.

665-9331. Surface mounted junction box JB-1-2/M8 for (1) floodlight. 3.0 lbs.

FINISH:

Powder coat finish in Black RAL9004, White RAL9016, and Grey Metallic RAL9007. Specify finish. Consult WE-EF color chart for other color options.

Nominal Lumen		Actual Lumen		Total System Wattage
LED LUMENS	177.3 lm	LED LUMENS	148.6 lm	30.000
LEDs	12	LEDs	12	
TOTAL LUMENS	2128.0 lm	TOTAL LUMENS	1783.3 lm	
T _a	85°	T _a	25°C	



Job Name:
MITEK CORPORATION HEADQUARTERS -
INTERIOR
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:
676-1252-RAL90**

Notes: ** = SPECIFY BLACK, WHITE, OR
GREY METALLIC

Type:

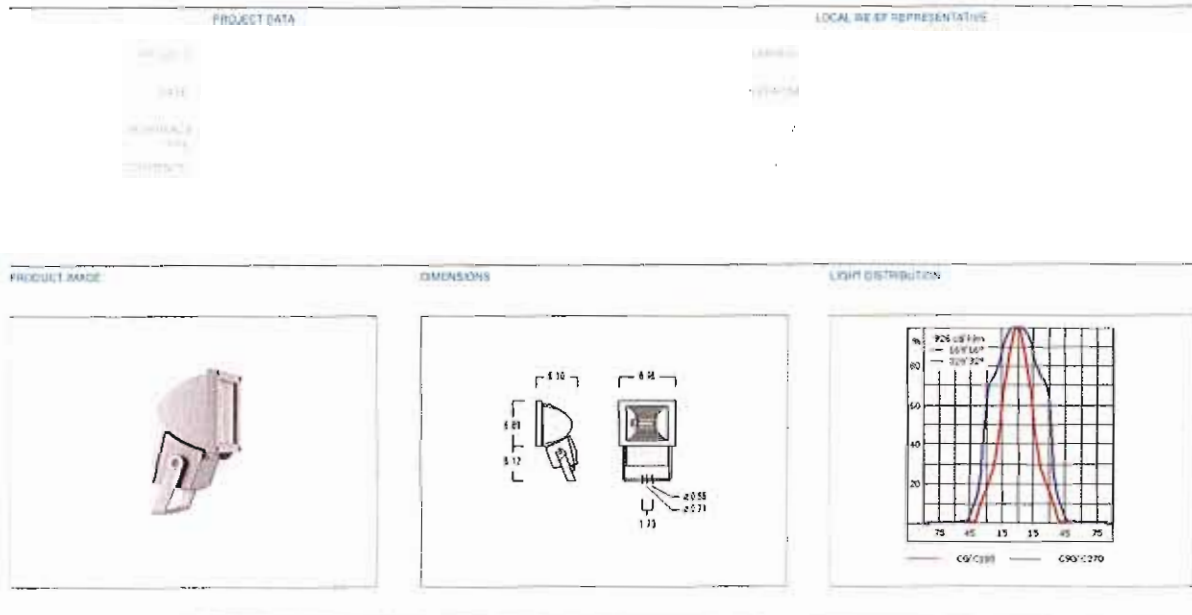
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LAI14-52687

676-1252 FLB440 Floodlights / Bi-symmetric

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we-ef



PRODUCT DESCRIPTION

MODEL: 676-1252 FLB440 Floodlights / Bi-symmetric

BEAM TYPE: bi-symmetric, medium beam

LAMP TYPE: CMH150 T-6/ G-12 base

WATTAGE: 14000

POWER SOURCE: electronic gear

MAIN FEATURES

IP66. Yoke mounted floodlight. Integral control gear. Special effects can be realized with linear lens, flood lens, or color filters.

TECHNICAL DATA

MATERIALS:

Marine grade die cast aluminum alloy. 5CE superior corrosion protection, including PCS hardware. Silicone rubber gasket. Clear, tempered glass lens. Anodized aluminum reflector.

ELECTRICAL:

Lamp holder: G-12 bi-pin base lamp holder, supplied with 250 ° high temperature leads, rated 600V. CMH150/ T-6/ G-12 base lamp, luminous flux: 14000 lm., provided by others. Integral [ECG] electronic MH ballast (ANSI M142/M102/E) for 120, 277, or 347 V supply. Specify voltage. Input watts: 169.0 W
Ambient Temperature: $T_a < 25^\circ \text{C}$

MOUNTING:

Fully adjustable yoke mounting bracket with stainless steel locking devices. Refer to mounting accessories for complete range of accessories. Weight: 8.0 lbs.

FINISH:

Powder coat finish in Black RAL9004, White RAL9016, and Grey Metallic RAL9007. Specify finish. Consult WE-EF color chart for other color options.

LISTINGS:

UL , c UL listed. Suitable for Wet locations.
International Protection Classification: IP66.

MOUNTING ACCESSORIES:

SHORT POST

Marine grade die cast allow. 5CE superior corrosion protection. Suitable for direct mounting of floodlight to short post. 667-9301. Short post for landscaped applications EM1-M16. 3.0 lbs.

PLANTED ROOT

Galvanized steel construction. Suitable as direct burial sleeve & mounting to Short Post for landscaped areas. Permits installations of floodlight without extensive need for concrete foundations. 665-9302. Planted root ESV for short post 667-9301. 10.0 lbs.

**Job Name:**

MITEK CORPORATION HEADQUARTERS -
INTERIOR
Engineer: STOCK AND ASSOCIATES
CONSULTING ENGINEERS (SAINT LOUIS)

Catalog Number:

676-1252-RAL90**

Type:**WW**

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POLE TOP CAPS

Marine grade die cast aluminum alloy. 5CE superior corrosion protection. Permits installation of floodlight to pole top tenon.

- 669-9331. Pole top cap KF16-60/M16 for (1) floodlight. For 2.36" tenon. 2.0 lbs.
669-9332. Pole top cap KF16-76/M16 for (1) floodlight. For 3.0" tenon. 2.0 lbs.
669-9333. Pole top cap KF16-89/M16 for (1) floodlight. For 3.5" tenon. 2.0 lbs.
669-9334. Pole top cap KF16-108/M16 for (1) floodlight. For 4.25" tenon. 2.0 lbs.

POLE CLAMPS

Marine grade die cast aluminum alloy. 5CE superior corrosion protection. Suitable for installation of floodlight to pole. Allows for floodlight to be rotated horizontally or vertically. E.C. is required to drill pole as required for power feed.

- 667-9320. Pole clamp TS1-2/M16 for (1) floodlight. 3.0" - 3.50" pole diameter. 3.0 lbs.
667-9348. Pole clamp TS1-2/M16 for (1) floodlight. 4.0" - 4.50" pole diameter. 3.0 lbs.
667-9322. Pole clamp TS1-2/M16 for (1) floodlight. 4.5" - 5.25" pole diameter. 3.0 lbs.
667-9321. Pole clamp TS2-2/M16 for (2) floodlights. 3.0" - 3.50" pole diameter. 3.0 lbs.
667-9349. Pole clamp TS2-2/M16 for (2) floodlights. 4.0" - 4.50" pole diameter. 3.0 lbs.
667-9323. Pole clamp TS2-2/M16 for (2) floodlights. 4.50" - 5.25" pole diameter. 3.0 lbs.

FLOODLIGHT MOUNTING BRACKETS

Made from hot dipped galvanized steel and powder-coated in RAL color. 5CE superior corrosion protection.

- 676-9330. Floodlight mounting bracket TC1-76 for (1) floodlight. For 3.0" x 7.87" long tenon. 5.0 lbs.
676-9331. Floodlight mounting bracket TC2-76 for (2) floodlights. For 3.0" x 7.87" long tenon. 48.0 lbs.
676-9332. Floodlight mounting bracket TC3-89 for (3) floodlights. For 3.50" x 7.87" long tenon. 52.0 lbs.
676-9333. Floodlight mounting bracket TC4-89 for (4) floodlights. For 3.50" x 7.87" long tenon. 56.0 lbs.

FINISH:

Powder coat finish in Black RAL9004, White RAL9016, and Grey Metallic RAL9007. Specify finish. Consult WE-EF color chart for other color options.

OPTICAL ACCESSORIES

Internal optical accessories:

A maximum of two internal optical accessories possible.

675-8201* (IQ-FLB440 (linear source shield)), 675-8203* (IL-FLB440 [W] / [M] (linear louver)), 675-8202* (IL-FLB440 [N] (linear louver)), 675-8163 (IF-red-FLB440), 675-8162 (IF-green-FLB440), 675-8161 (IF-blue-FLB440), 675-8164 (IF-yellow-FLB440), 675-8102 (IO-360-FLB440 (flood lens)), 675-8101 (IO-180-FLB440 (wall wash lens)).

NOTES:

*Requires internal optical adaptor (IA) which must be ordered separately.

675-8001 (IA-FLB440 (internal optical adaptor))

External optical accessories:

A maximum of one external optical accessory possible.

675-9201 (EG-FLB440 (wire guard)), 675-9202 (ES-FLB440 (glare shield)), 675-9204 (EO-FLB440 (barn doors)).