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690 Chesterfield Pkwy W • Chesterfield MO 63017-0760  
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## Architectural Review Board Staff Report

**Project Type:** Site Development Section Plan

**Meeting Date:** August 14, 2014

**From:** John Boyer  
Senior Planner

**Location:** 600 Spirit Valley East Drive

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

**Description:** **Spirit Valley Business Park, Lot 7 (The Place) SDSP:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 2.9 acre tract of land zoned "PI" Planned Industrial District located southeast of the intersection of Spirit Valley West Drive and Spirit Valley Central Drive.

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### **PROPOSAL SUMMARY**

The request is for construction of a 53,582 square foot luxury automotive/watercraft storage facility. The subject site is zoned "PI" Planned Industrial District and is governed under the terms and conditions of City of Chesterfield Ordinance 2745.

### **ZONING HISTORY OF SUBJECT SITE**

The subject site was originally zoned "NU" Non-Urban District by St. Louis County in 1965 prior to the incorporation of the City of Chesterfield. The site was then rezoned from "NU" Non-Urban District to "PI" Planned Industrial District in June of 2007 under terms and conditions of the City of Chesterfield Ordinance 2373. In May of 2013, the ordinance was amended to allow for an additional permitted use of kennels to the "Animal hospital, veterinary clinics and kennels" use.

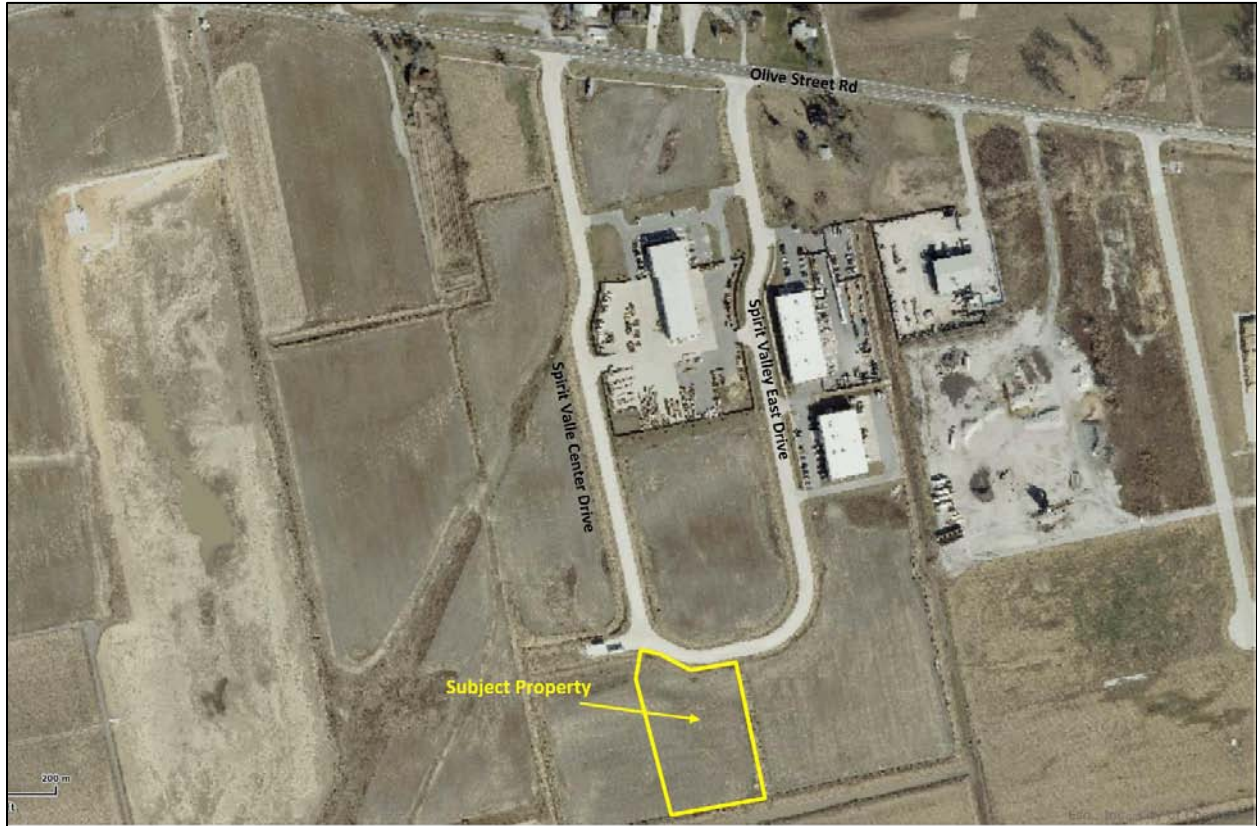


Figure 1: Site Photo

## **STAFF ANALYSIS**

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

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

This is a 2.9 acre tract located on the south end of the Spirit Valley Business Park development. The 53,582 square feet of structure is split into two buildings: an interior unit and a second unit which wraps around the perimeter of the parcel in a backward “C” shape.

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

Proposed access to the site will be via a shared entrance point between the subject site and Lot 6 to the west compliant with the approved Amended Site Development Concept Plan. Parking to the facility will be in the front near the entrance. Internal access is provided via a private drive which will serve the facility.

#### **C. Topography**

Subject site is within the Valley and relatively flat.

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

No retaining walls are proposed associated with this request.

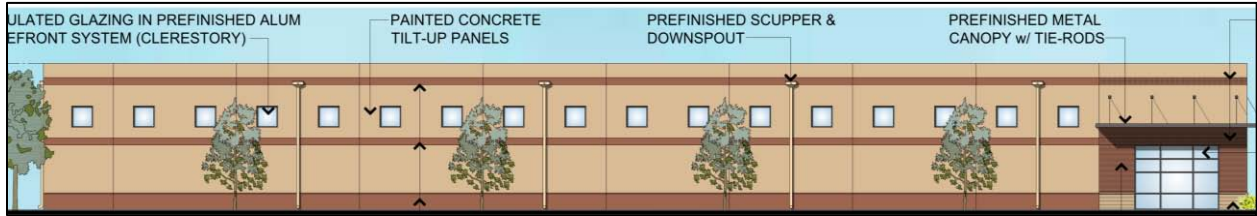


Figure 2: Exterior Elevation

**General Requirements for Building Design:**

**A. Scale, Design, Materials and Color**

The applicant is proposing two twenty-eight (28) foot one-story structures similar in height and scale with other existing structures within the development. Concrete tilt-up panels will be used with exterior elevations banded with complementary colors which visually reduce the overall height of the building. Example of the banding can be seen above in Figure 2. The interior of the elevations will utilize masonry bases and brick veneer in addition to the tilt-up concrete design. Figure 3 below represents the proposed interior elevation. The office corner in the lower right hand of Figure 2 indicates that the brick and masonry element is planned to wrap to the northern elevation signifying the entrance/office element of this planned structure. Mechanical equipment will be roof mounted and will be screened by a parapet.



Figure 3: Interior Elevation

**B. Landscape Design, Screening and Fencing**

All landscaping as identified on the submitted Landscape Plan is compliant with the Tree Preservation and Landscape Requirements of the City of Chesterfield. A combination of deciduous, coniferous and shrubs/bushes have been utilized throughout the exterior of the site. The planned storm-water bio-retention on the north and south ends of the site is also planned to be landscaped per MSD requirements, which will add to the overall landscaping of this project.

A trash enclosure is planned with this proposed construction. The enclosure, per the Statement of Design and Elevations, will match the material and color of the proposed main structure. Fencing with a gate is proposed with this development. While no fence or gate detail has been included at this time which indicates material, height and color; renderings indicate a wrought-iron type fence is planned to be utilized. Staff has requested this information to be clarified via comment letter. If a fence is proposed similar as depicted in the renderings, the fence would be compliant with City Code.

**C. Lighting**

Lighting is proposed to use a combination of wall mounted pack lights near the access points of the individual units interior to the site, decorative accent wall lighting near the office entrance (C-LED) and one bollard light (D-LED) with a similar decorative head as C-LED adjacent to the shared access point. The applicant is currently showing multiple versions of the possible wall mounted pack lighting to use near the individual unit entrances; A-HID, B-HID, A-LED and ALT-LED. The main difference between these possible units is the lighting type of Metal Halide or

LED and small variation in the light spread area. All the wall pack lights would face downward. The applicant will need to narrow down to a specified wall pack light prior to Planning Commission review.

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 and comment, accent lighting is ultimately required to be approved by the Planning and Development Services Division as directed by City Code. 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 Spirit Valley Business Park, Lot 7 (The Place).

### **MOTION**

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

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for Spirit Valley Business Park, Lot 7 (The Place), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design, for Spirit Valley Business Park, Lot 7 (The Place), to the Planning Commission with the following recommendations..."

### **Attachments**

1. Architectural Review Packet Submittal



ARCHITECTURAL REVIEW BOARD  
Project Statistics and Checklist

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

**Project Title:** Spirit Valley Business Park, Lot 7 (The Place) **Location:** 600 Spirit Valley East Drive

**Developer:** SR Properties IV, LLC **Architect:** ACI Boland Architects **Engineer:** Stock & Associates

**PROJECT STATISTICS:**

**Size of site (in acres):** 2.911 Acres **Total Square Footage:** 53,582 SF **Building Height:** 28'-0"

**Proposed Usage:** Luxury Automotive/Watercraft Storage Condominiums

**Exterior Building Materials:** Painted Concrete Panels, Brick, Masonry Units & Glass in Aluminum Storefront

**Roof Material & Design:** Flat Roof with Membrane Roofing

**Screening Material & Design:** Veneer walls to match building and extended parapet to screen rooftop equipment

**Description of art or architecturally significant features (if any):** \_\_\_\_\_

**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.



July 16, 2014

Aimee Nassif, AICP  
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: Spirit Valley Business Park, Lot 7 (The Place) - Chesterfield, Missouri  
ACI Boland Project No. 214039

Dear Ms. Nassif:

We are pleased to submit the following project to The City of Chesterfield Architectural Review Board for their consideration. We have included in this 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**

The building is situated on Spirit Valley West south of Olive Street Road and north of the Spirit of St. Louis Airport. The facility entrance will face Spirit Valley West to the north. The entrance to this development will utilize a single curb-cut entrance on Spirit Valley West. This single curb-cut entrance will allow for entrance to Lot 6 to the west in the future to limit the curb-cuts on Spirit Valley West.

#### **Circulation System and Access**

The building is situated in the middle of the site with a single access drive into the facility. The visitor parking is located on the west side of the building before the security gate with a landscaped foreground area to help buffer the building sales entrance from the visitor parking area. The accessible parking spaces are located directly in front of the building allowing easy and safe access without needing to cross any drive lanes. Inside the secured area of the facility the access drive is a "U" shape with a paved fire truck turn-around provided for the Monarch Fire Department at their request.

#### **Topography**

The existing site is relatively flat and vacant. The site has no substantial vegetation worth retaining currently. A portion of the Monarch Levee Drainage System is located to the south of the lot.

#### **Retaining Walls**

We are currently not proposing the use or need of any site retaining walls in this project at this time.

## **General Requirements for Building Design**

### **Scale**

These single story buildings are designed in scale to complement the other existing buildings in the Spirit Valley Business Park. The buildings have been carefully designed with the use of several horizontal accent bands to reduce the scale of the building from the street and throughout the facility. We have also incorporated metal canopies at the building entrances and at each of the condominium entrances help achieve the sense of human scale.

### **Design**

The two buildings will be a single story condominium development constructed of concrete tilt-up panels. The "exterior" of the development will be mainly painted concrete panels to provide for some discretion and privacy as to the nature of the development. The entrance corner and the "interior" of the development will be brick veneer, masonry bases, glass storefronts and painted concrete panels above the prefinished metal canopies and overhead doors. We have also included the use of clerestory windows around the exterior perimeter to allow for natural light into each of the spaces. All the faces of the building have been designed to be coordinated in regards to the material and detailing. The building will also include an extended parapet to screen the mechanical equipment on the roof of the structure.

### **Materials and Colors**

The exterior design will be predominantly brick veneer while incorporating masonry bases into the look of the building to create an elegant and sophisticated appearance to complement the owners of each of the condominium spaces available. We are also planning to use prefinished metal canopies at the entry elements. The full-height window openings along the north, west and south side will be insulated tinted glass in prefinished aluminum storefront. All of the materials have been selected to be subdued and reserved.

Please refer to the exterior rendering and the larger material samples to be submitted at the Architectural Review board meeting.

### **Landscape Design and Screening**

The site has been carefully landscaped with trees and other scrubs/plantings to compliment the scale and reduce the impact of the building from Spirit Valley West Drive and create a consistent theme throughout the development. The building will also include a landscaped area near the front doors to create an inviting plaza area for the visitors. We have also landscaped the two Metropolitan Sewer District's required water quality sand bed filter on the north and south side of the site to compliment the entire development and create pleasing environment.

Please refer to the submitted Landscape Plan for more information.

The building's trash container will be screened from vision by the use of screen walls, gates and evergreen trees. The enclosure will be constructed to give the feel of a unified consistent appearance through the use of matching materials to the building. The enclosure will have wood sight-proof swing gates that will face the west, away from all of the vehicle traffic to the north.

June 16, 2014  
Aimee Nassif  
City of Chesterfield  
ACI Boland Proposal No. 214039  
Page 3

### **Signage**

We understand that signage review is not part of this process and is will be reviewed at a later date if the owner wishes to incorporate any signage as part of the development. 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.

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

Respectfully Submitted,

ACI Boland Architects

A handwritten signature in black ink, appearing to read 'Kristopher T. Mehtens', written in a cursive style.

Kristopher T. Mehtens, LEED AP  
Project Manager

Attachments:

City of Chesterfield – Architectural Review Board Project Statistics and Checklist





ARCHITECTURAL RENDERING  
OVERALL AERIAL VIEW

214039 - 07.16.2014



**ARCHITECTURAL RENDERING**  
SALES ENTRY / VISITOR PARKING AREA



**ARCHITECTURAL RENDERING**  
INTERIOR MOTORCOURT AREA

214039 - 07.16.2014



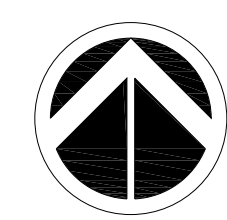
A - VIEW LOOKING SOUTHEAST



A - VIEW LOOKING NORTHEAST

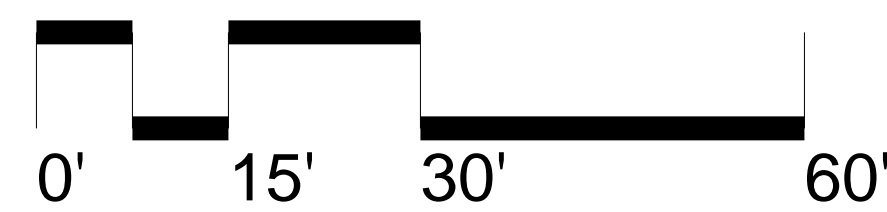


A - VIEW LOOKING NORTH



**ARCHITECTURAL SITE PLAN**

SCALE: 1"=30'-0"



B - VIEW LOOKING NORTHWEST



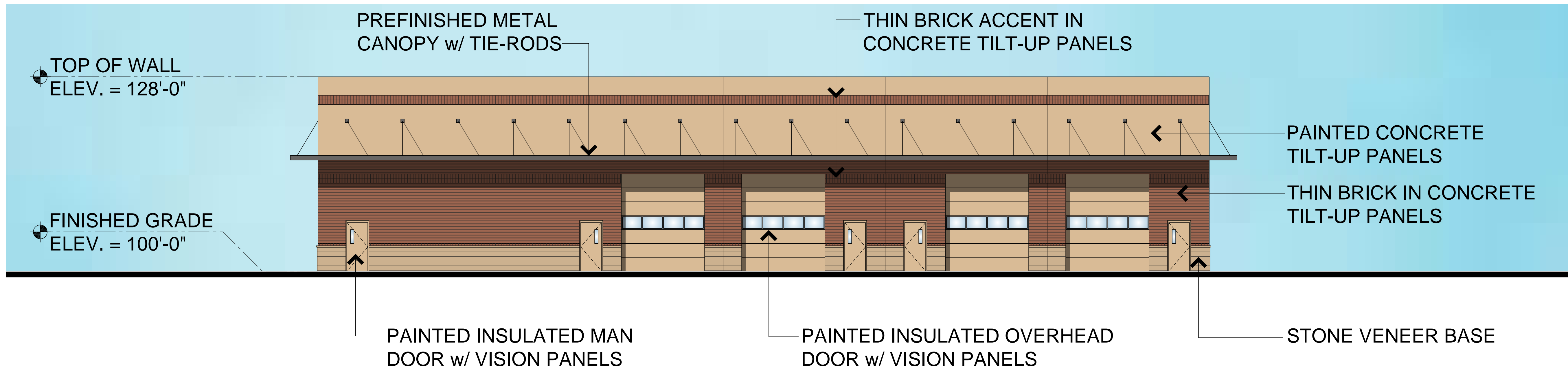
B - VIEW LOOKING NORTHEAST



B - VIEW LOOKING SOUTHEAST

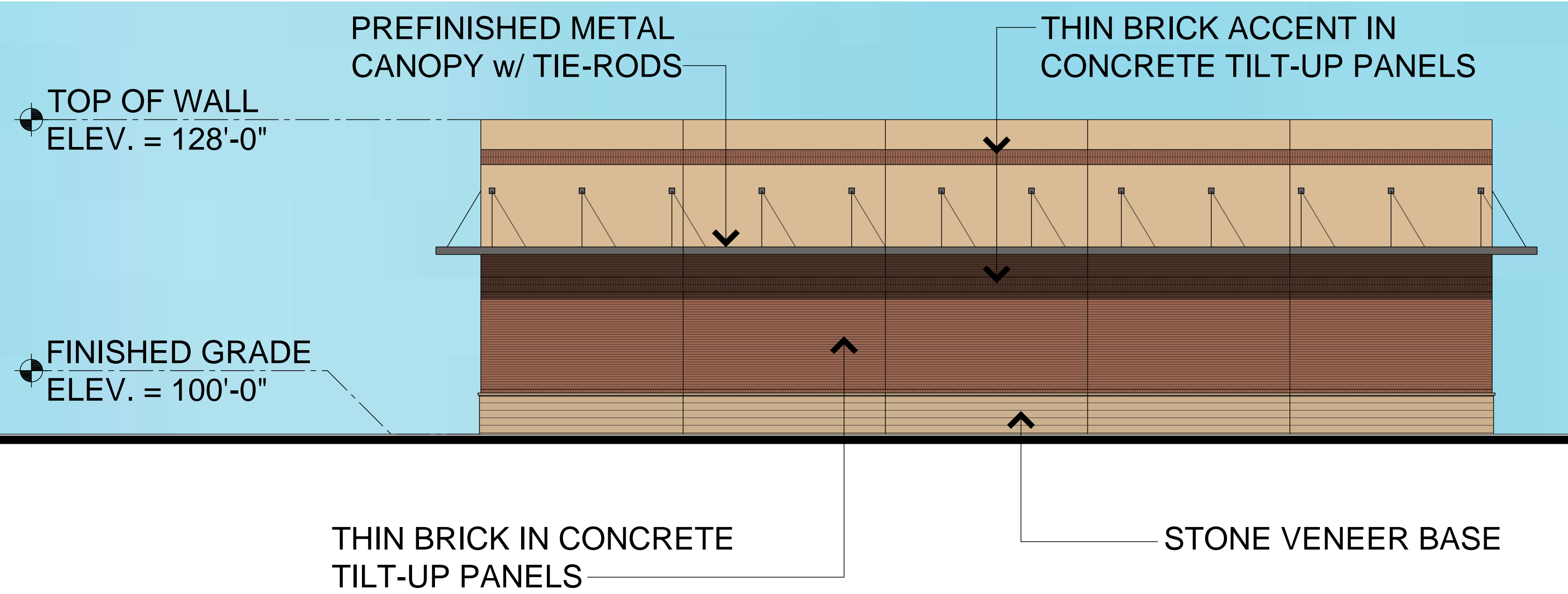


214039 - 07.16.2014



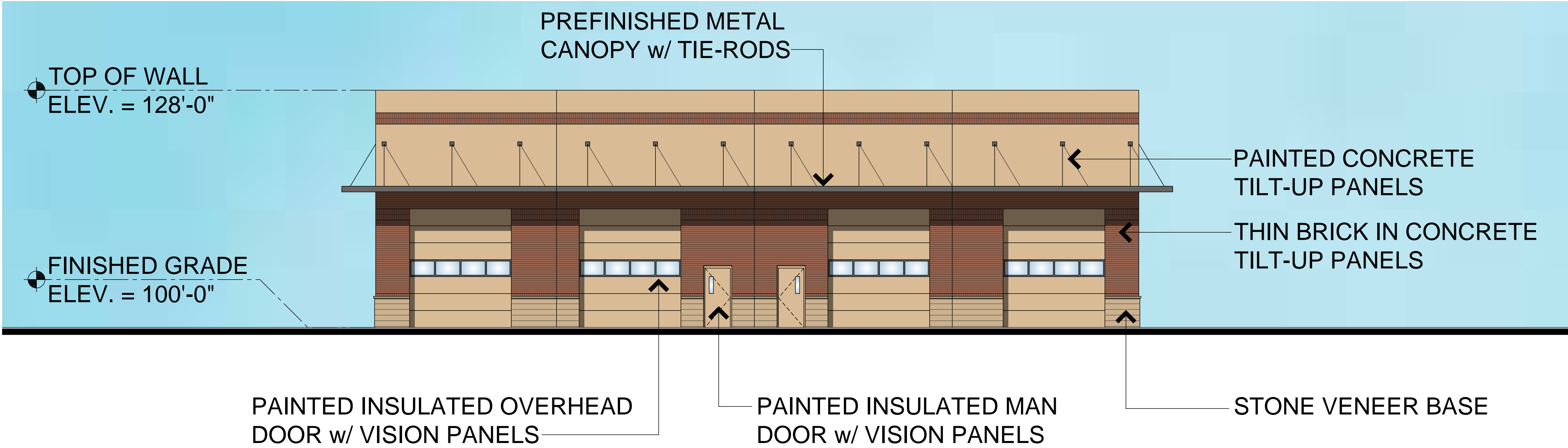
**BLDG A NORTH ELEVATION**

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



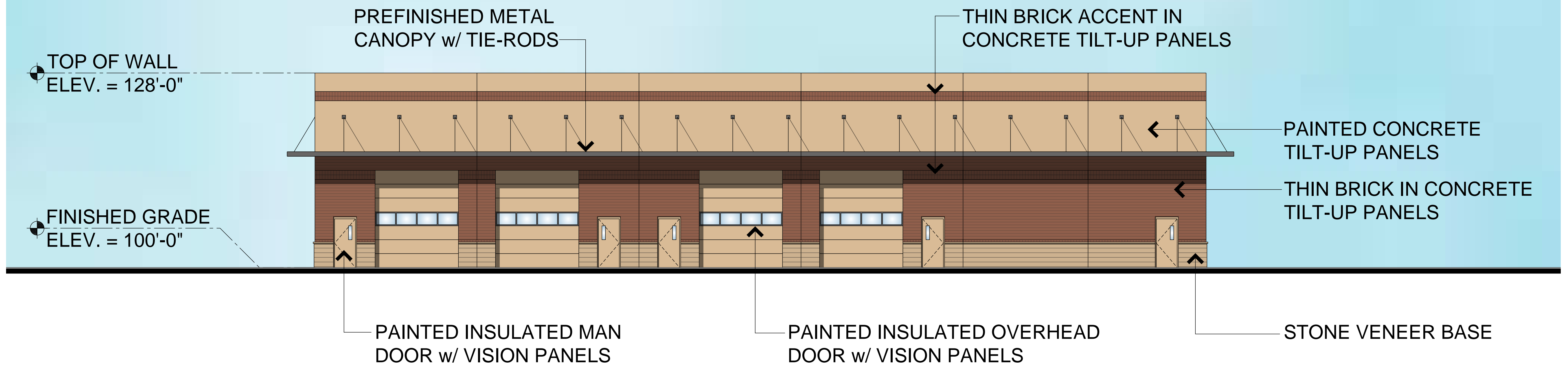
**BLDG A WEST ELEVATION**

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



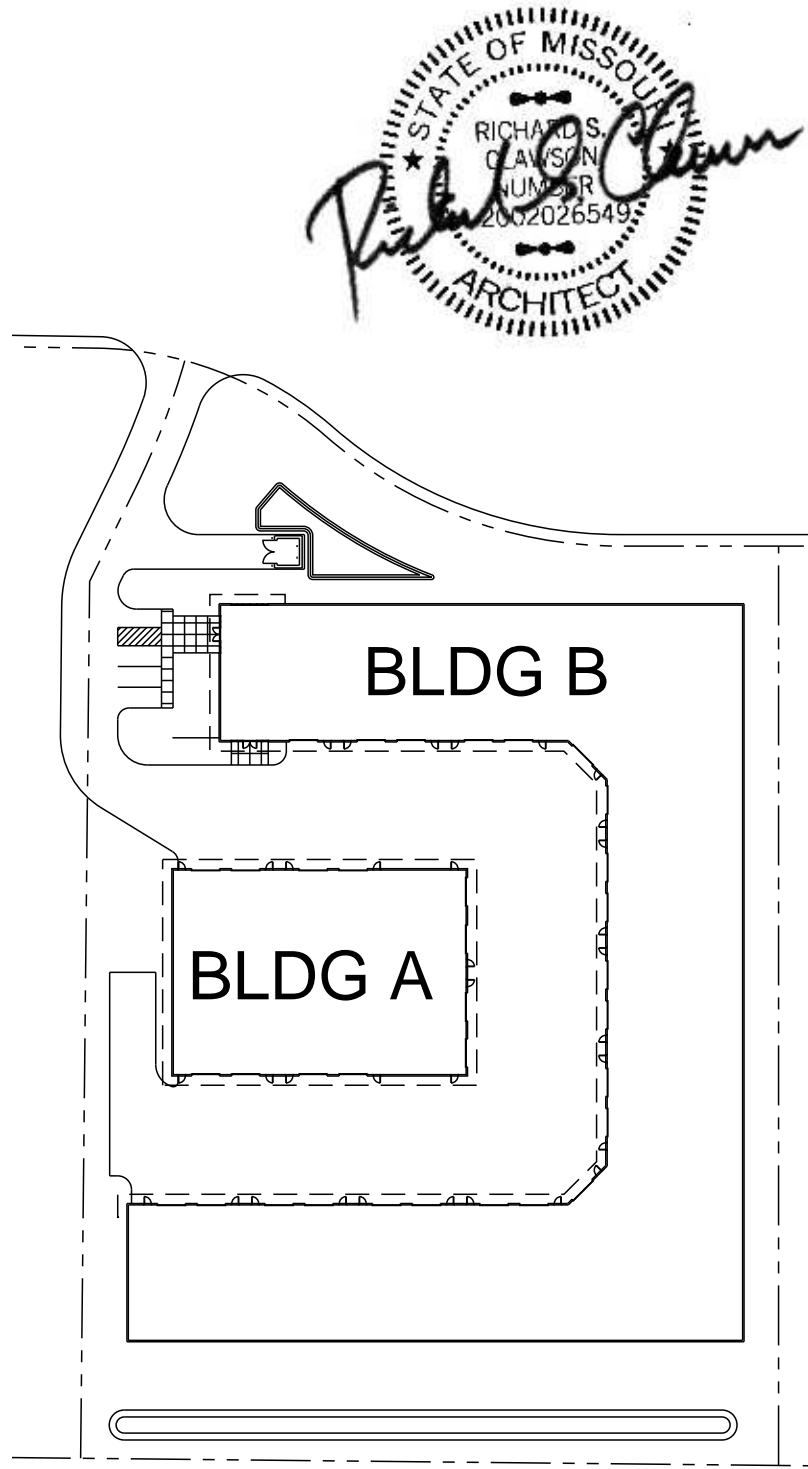
**BLDG A EAST ELEVATION**

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



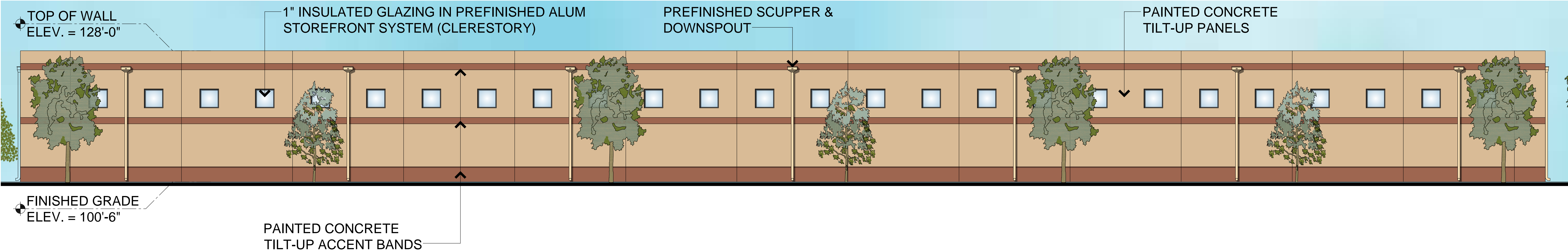
**BLDG A SOUTH ELEVATION**

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



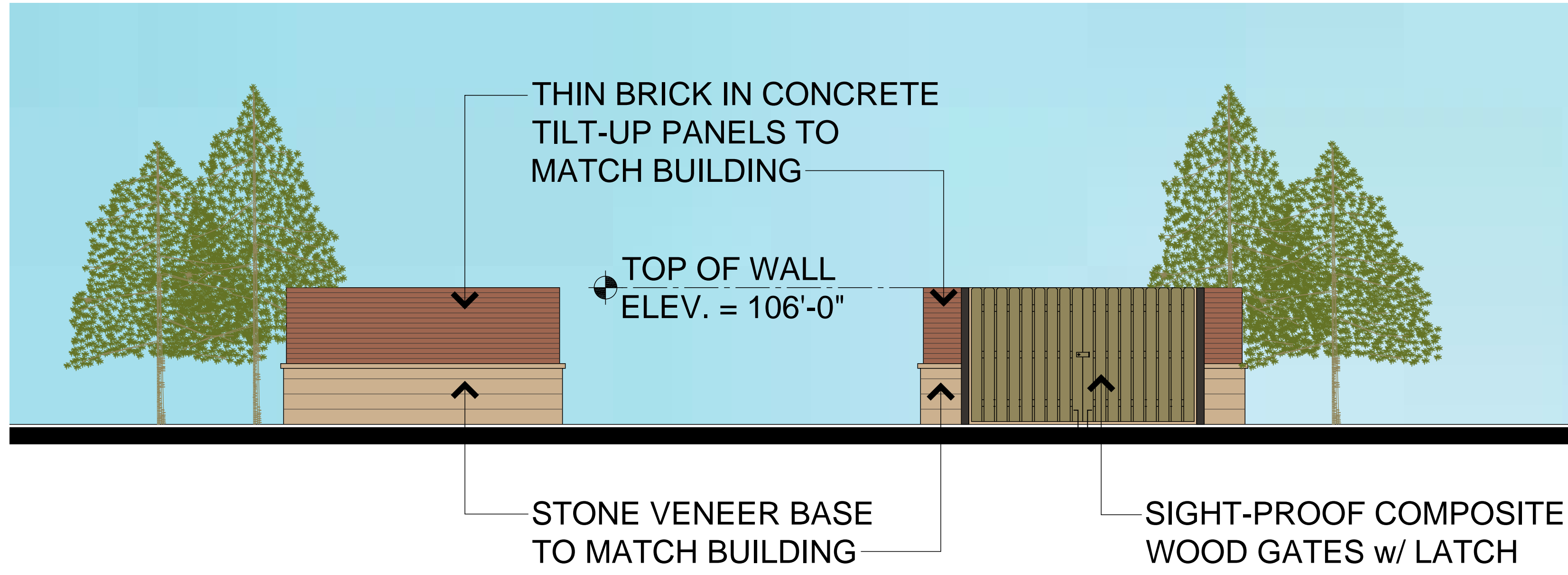
**SITE KEY PLAN**  
NOT TO SCALE

214039 - 07.16.2014



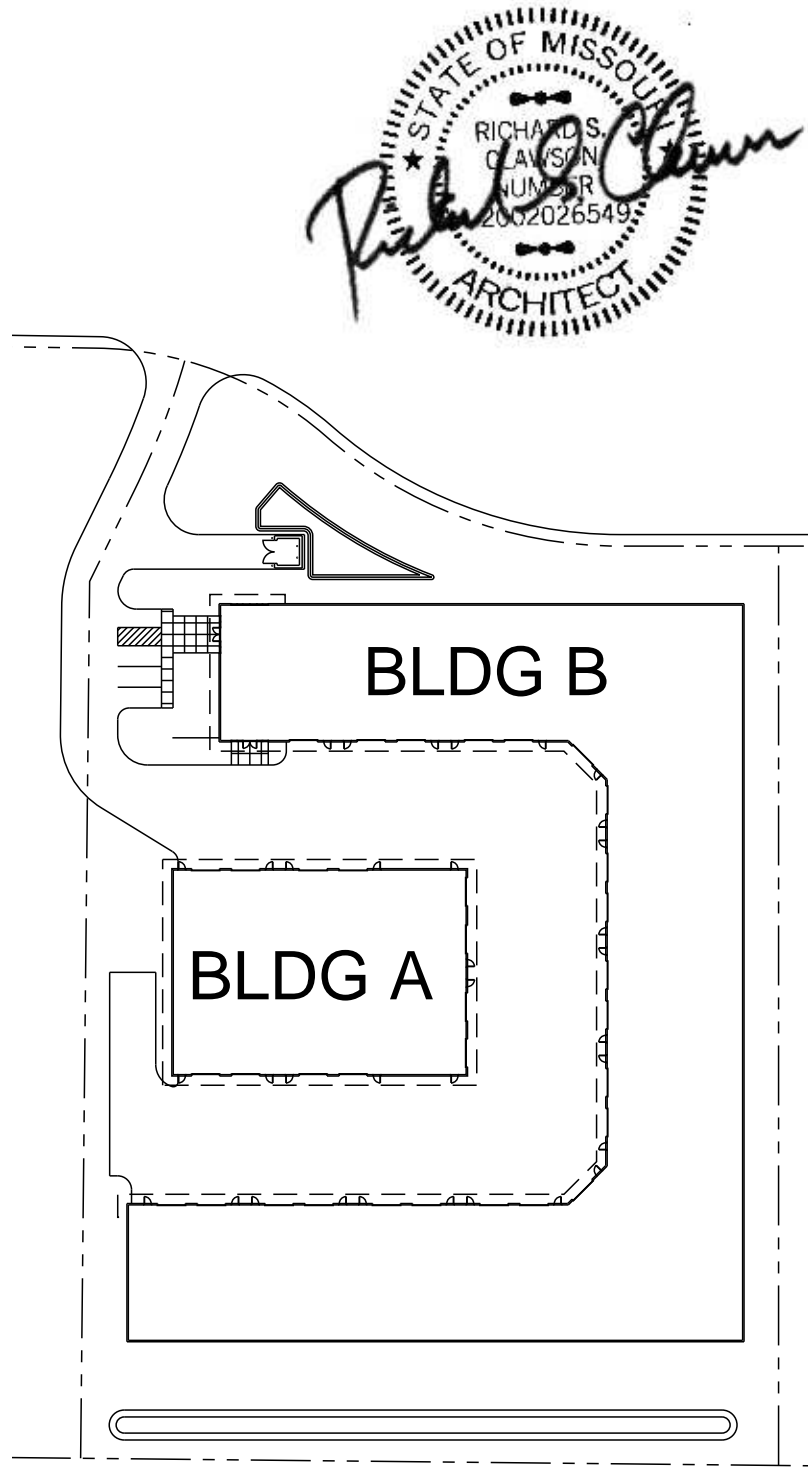
**BLDG B EAST ELEVATION**

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



**TRASH ENCLOSURE ELEVATION**

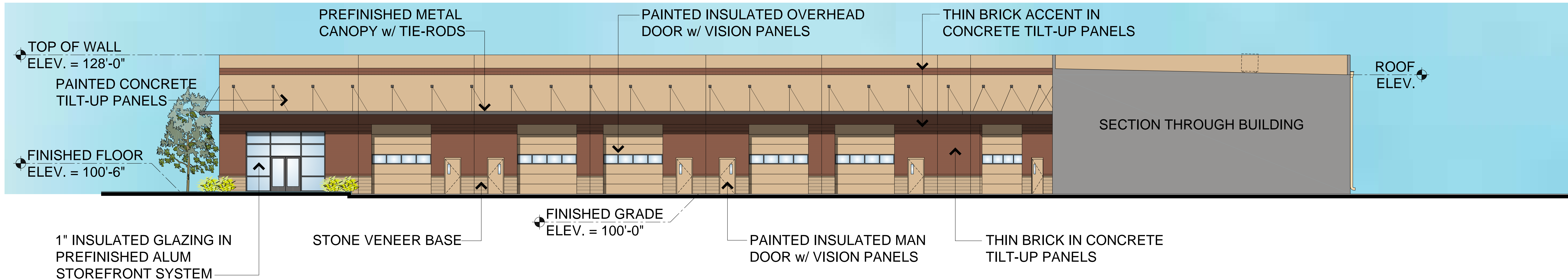
SCALE: 1/4" = 1'-0"



**SITE KEY PLAN**  
NOT TO SCALE

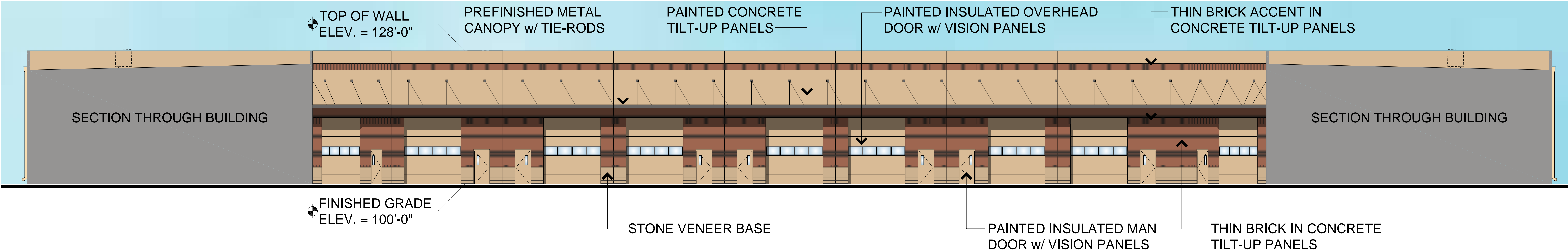
214039 - 07.16.2014





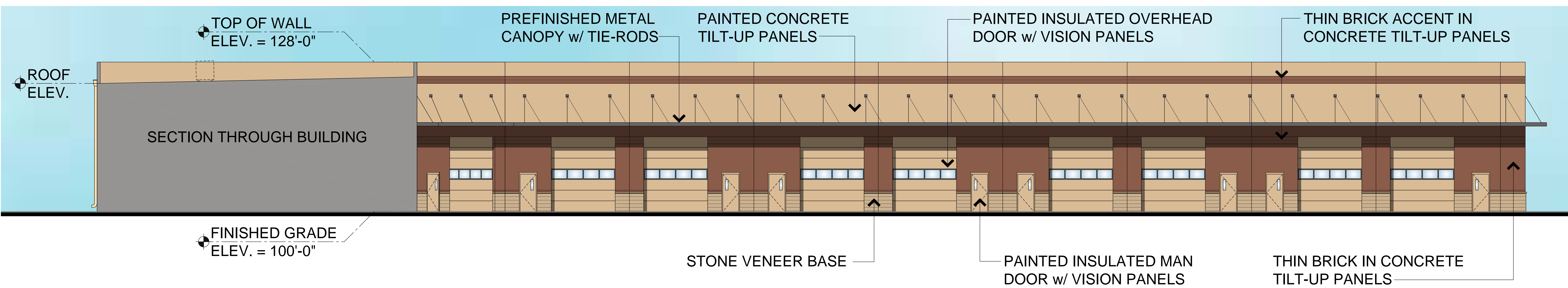
**BLDG B SOUTH ELEVATION**

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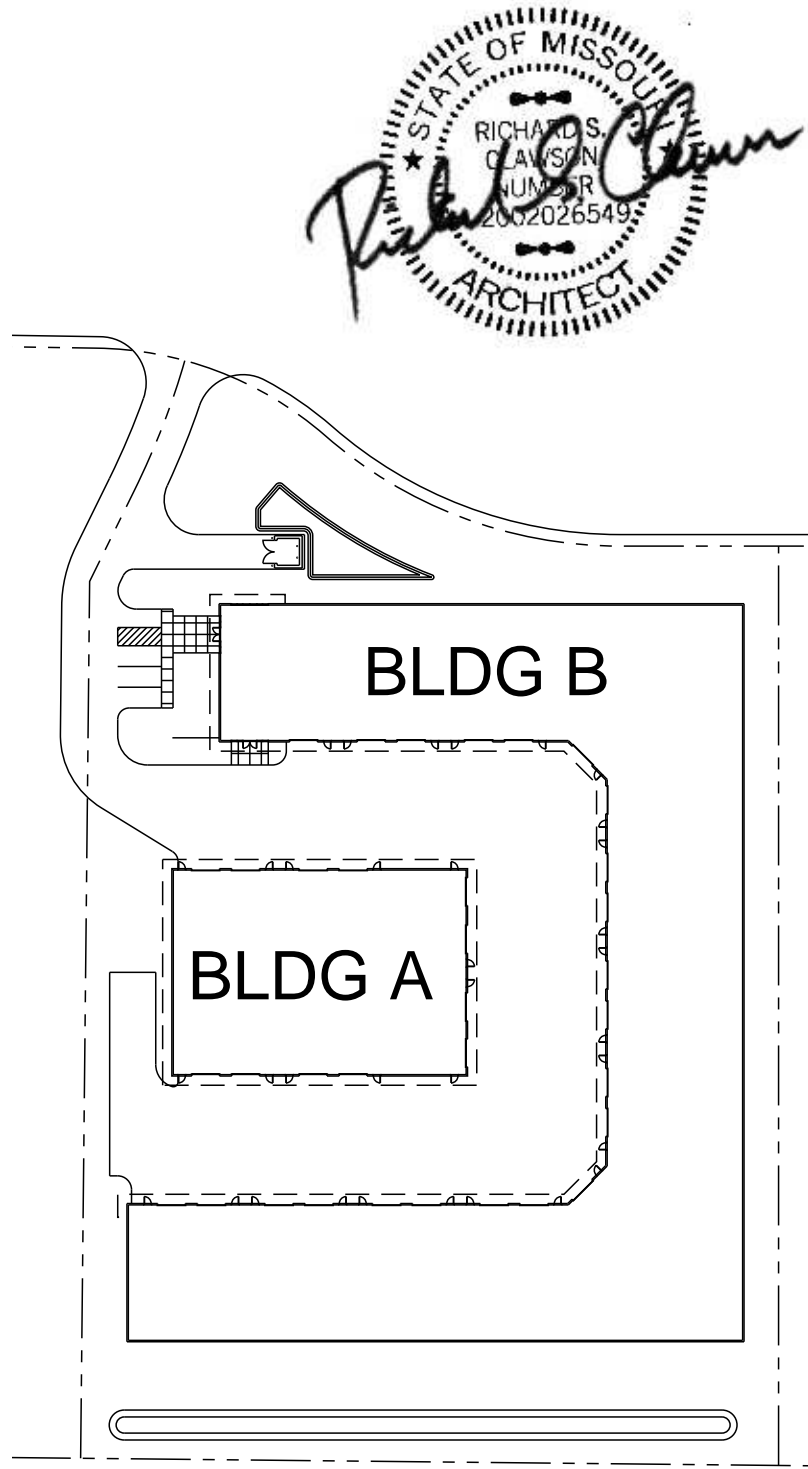
**BLDG B WEST ELEVATION**

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



**BLDG B NORTH ELEVATION**

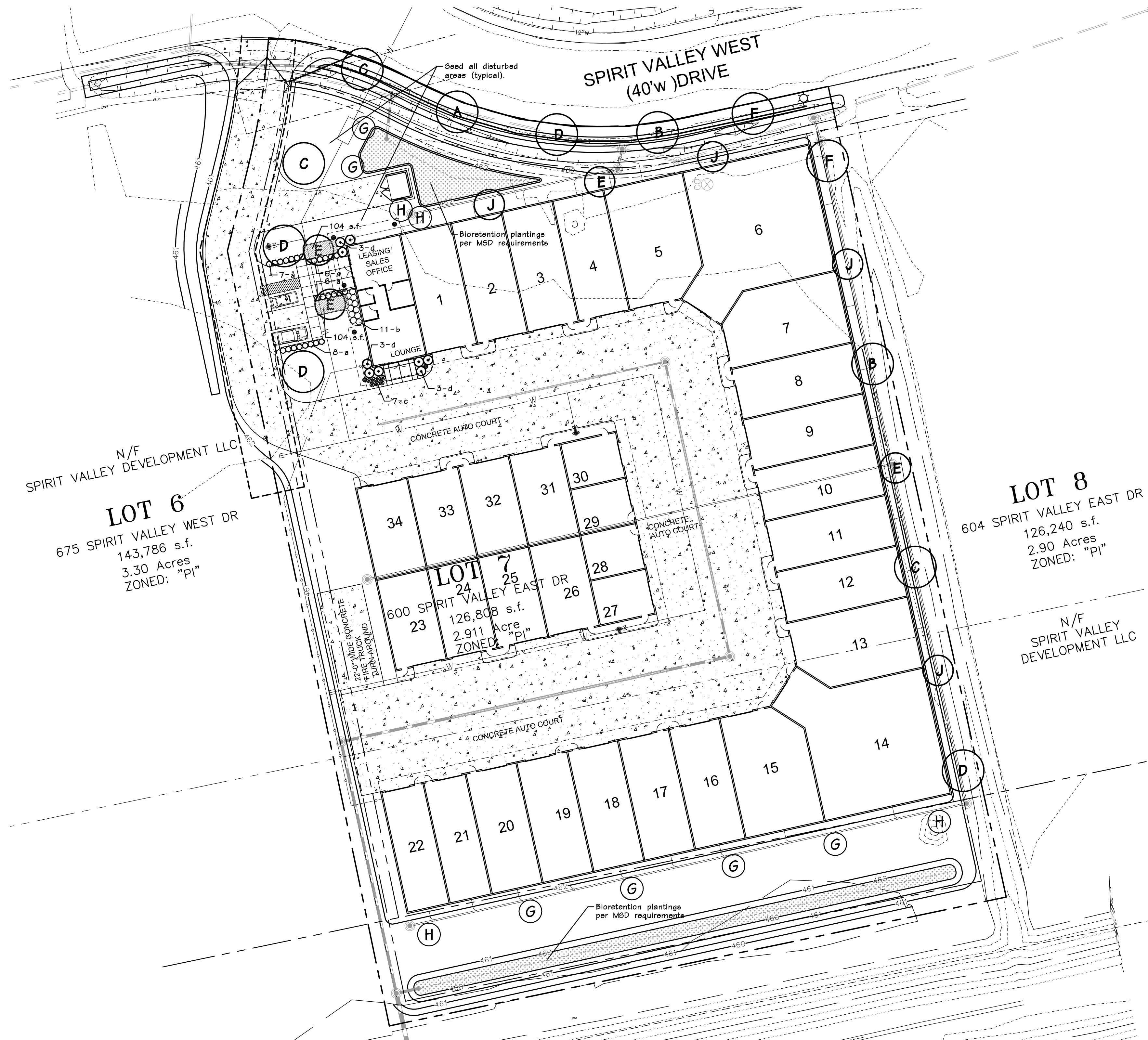
SCALE: 1/8" = 1'-0"



**SITE KEY PLAN**  
NOT TO SCALE

214039 - 07.16.2014

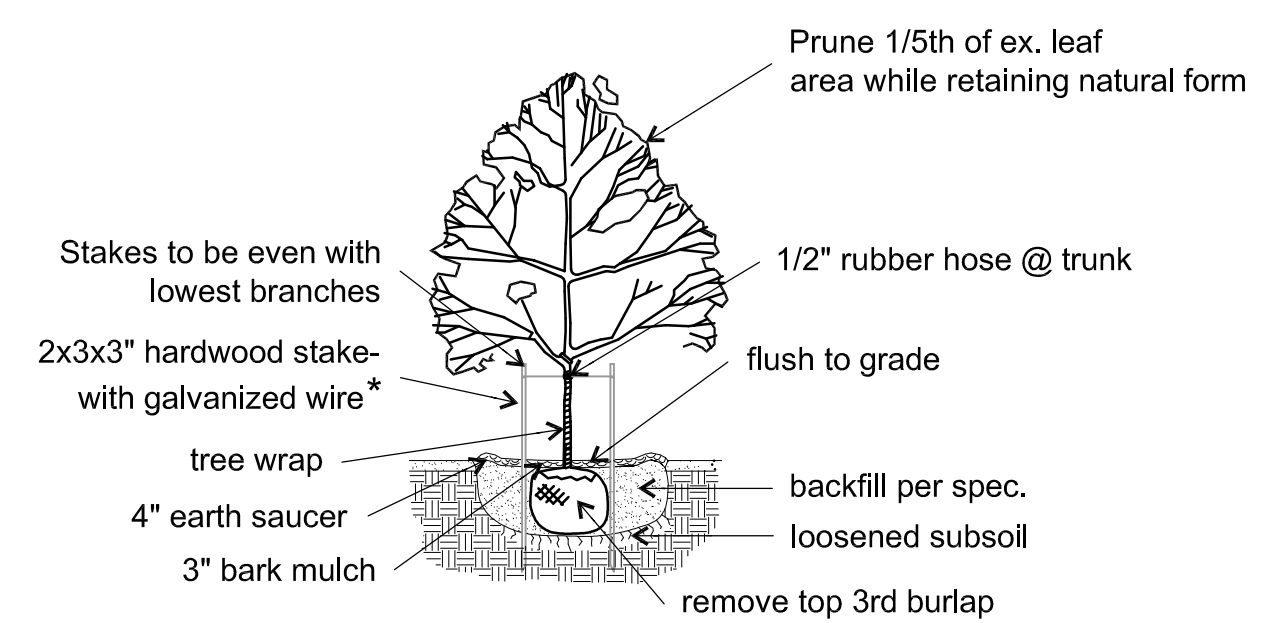




**LANDSCAPE PLAN**  
SCALE 1" = 30'

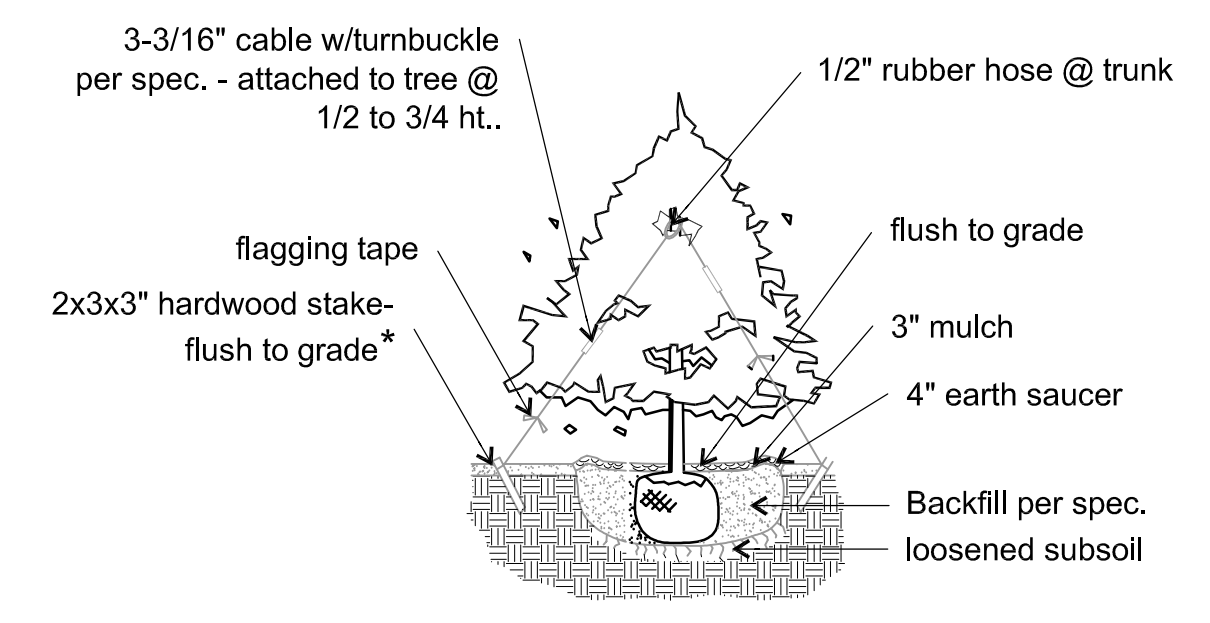
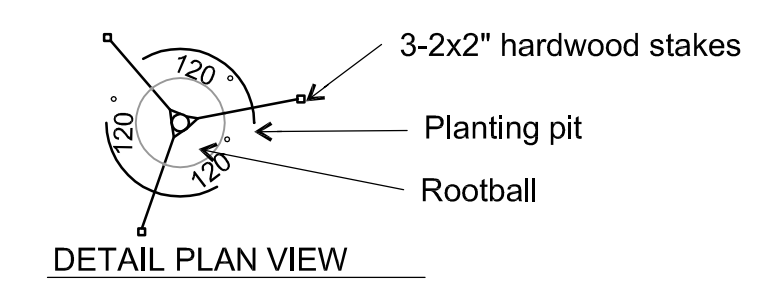
PLANTING SCHEDULE							
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	TYPE	GROWTH RATE/SIZE CLASS	MATURE HT/FEET
<b>TREES</b>							
A	1	<i>Acer rubrum</i> 'Franksred'	Red Sunset Maple	2.5" cal	Deciduous	Fast/Large	45+
B	2	<i>Quercus bicolor</i>	Swamp White Oak	2.5" cal	Deciduous	Med/Large	45+
C	3	<i>Tilia cordata</i>	Littleleaf Linden	2.5" cal	Deciduous	Slow-Med/Large	45+
D	4	<i>Zelkova serrata</i>	Zelkova	2.5" cal	Deciduous	Fast/Large	45+
E	4	<i>Cercis canadensis</i>	Eastern Redbud	2.5" cal	Decid-Ornamental	Fast/Medium	25-30
F	2	<i>Carpinus betulus</i> 'Fastigiata'	Pyramidal European Hornbeam	2.5" cal	Deciduous	Slow/Medium	35-40
G	6	<i>Pinus strobus</i>	Eastern White Pine	6'	Evergreen	Fast/Large	45+
H	4	<i>Picea glauca</i>	White Spruce	6'	Evergreen	Med/Medium	30-40
J	4	<i>Amelanchier arborea</i>	Serviceberry	2.5" cal	Decid-Ornamental	Slow-Med/Medium	25-30
<b>SHRUBS/PERENNIALS</b>							
a	27	<i>Buxus sinica</i> var. <i>insularis</i> 'Wintergreen'	Wintergreen Boxwood	5 gal	Evergreen	-	-
b	11	<i>Ilex</i> 'China Girl'	China Girl Holly	5 gal	Evergreen	-	-
c	7	Buddleja Lo & Behold 'Blue Chip'	Blue Chip Dwarf Butterfly Bush	3 gal	Deciduous	-	-
d	9	<i>Itea virginica</i> 'Henry's Garnet'	Henry's Garnet Itea	5 gal	Deciduous	-	-
208 s.f.		Annuals, perennials, groundcovers	-	1 qt	-	-	-
		Bioretention plantings	-	-	-	-	-

Open Space Percentage: 30.97%

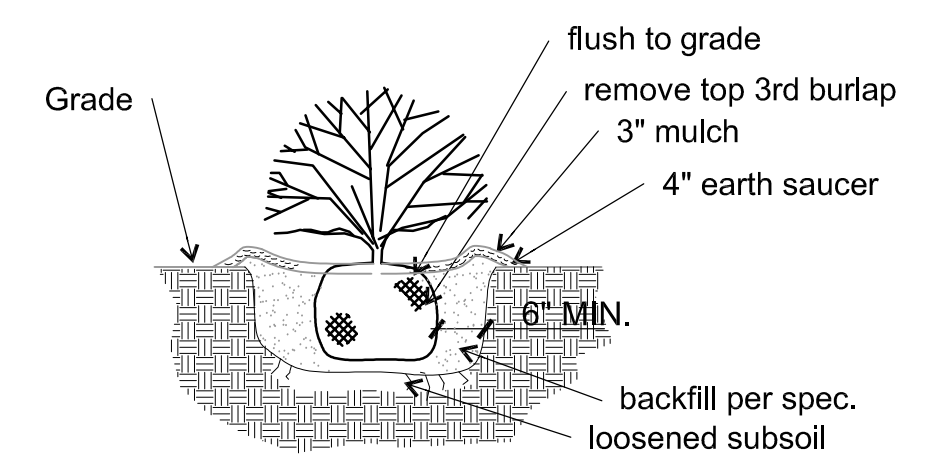


**CANOPY TREE PLANTING**

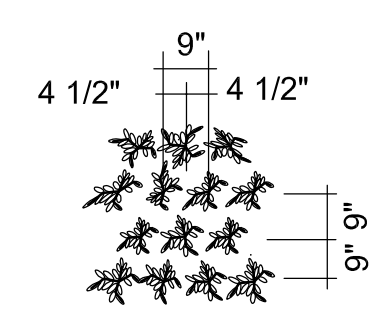
- \* Staking should only be done when:
  - Planting in soft, loose soils
  - Root balls in sandy soils, or wet clay
  - Trees located in an extremely windy location



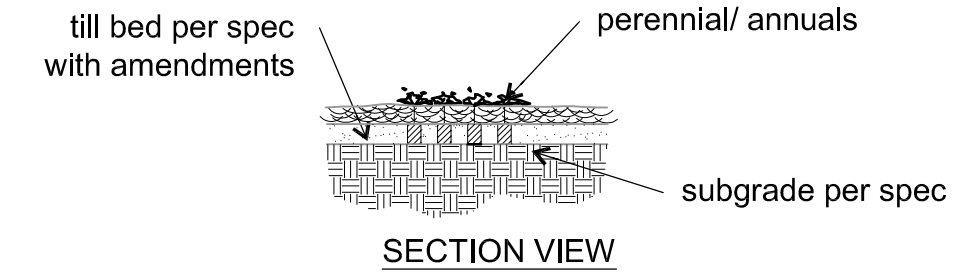
**TYPICAL EVERGREEN PLANTING**



**TYPICAL SHRUB PLANTING**

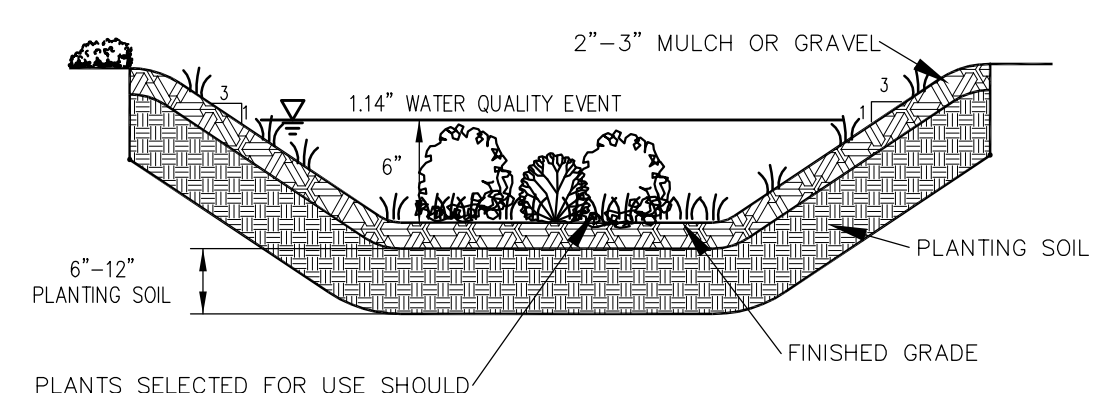


**PLAN VIEW**



**SECTION VIEW**

**TYPICAL PERENNIAL PLANTING**



**BIORETENTION PLANTINGS (n.t.s.)**

PLANTS SELECTED FOR USE SHOULD TOLERATE BOTH SATURATED AND DRY CONDITIONS AND BE NATIVE OR ADAPTED TO MISSOURI.



Consultants:

**The Place**  
**Spirit Valley Lot 7**  
Chesterfield, Missouri

Revisions:		
Date	Description	No.
6/26/14	City Comments	1

Drawn: BR  
Checked: RS

**loomisAssociates**  
Landscape Architects/Planners  
707 Spirit Valley Drive, Suite 105  
Chesterfield, Missouri 63005-1094  
Tel: 636.833.1199  
www.loomisassociates.com

Sheet Title: **Landscape Plan**  
Sheet No: **L1**  
Date: 06/06/14  
Job #: 687.012

# THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK - SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOT 7 OF SPIRIT VALLEY BUSINESS PARK  
AS RECORDED IN PLAT BOOK 356, PAGE 177  
TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN  
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

## LEGEND

EXISTING CONTOURS	---
PROPOSED CONTOURS	---
EXISTING SANITARY SEWERS	---
EXISTING STORM SEWERS	---
PROPOSED SANITARY SEWERS	---
PROPOSED STORM SEWERS	---
EXISTING RIGHT-OF-WAY	---
PROPOSED RIGHT-OF-WAY	---
CENTERLINE	---
EASEMENT	---
NOTES PARKING SPACES	(18)
GUY WIRE	↑
EXISTING SPOT ELEVATION	+ EX. 120.15
PROPOSED SPOT ELEVATION	▲ 120.10
SWALE	---
TO BE REMOVED	T.B.R.
TO BE REMOVED & RELOCATED	T.B.R. & R.
TO BE USED IN PLACE	U.I.P.
BACK OF CURB	B.C.
FACE OF CURB	F.C.
TRASH ENCLOSURE	☒
EXISTING LIGHT STANDARD	☼
GAS MAIN	G
WATER MAIN	W
UNDERGROUND TELEPHONE	T
UNDERGROUND TELEPHONE	(E)

## ABBREVIATIONS

W	- WATER	DB	- DEED BOOK
E	- ELECTRIC	PB	- PLAT BOOK
OE	- OVERHEAD ELECTRIC	PG	- PAGE
UE	- UNDERGROUND ELECTRIC	(_W)	- RIGHT-OF-WAY WIDTH
G	- GAS	(REC)	- RECORD INFORMATION
T	- TELEPHONE	FT	- FEET
TBR	- TO BE REMOVED	N/F	- NOW OR FORMERLY
TBR & R	- TO BE REMOVED AND REPLACED	FND	- FOUND
UIP	- USE IN PLACE	SQ	- SQUARE
ATG	- ADJUST TO GRADE	CO	- CLEANOUT
BC	- BACK OF CURB	MH	- MANHOLE
FC	- FACE OF CURB	AI	- AREA INLET
TW	- TOP OF WALL	CI	- CURB INLET
BW	- BOTTOM OF WALL	GI	- GRATE INLET
PVMT	- PAVEMENT	YD	- YARD DRAIN
ASPH	- ASPHALT	PVC	- POLYVINYL CHLORIDE PIPE
CONC	- CONCRETE	RCP	- REINFORCED CONCRETE PIPE
GRND	- GROUND	CMP	- CORRUGATED METAL PIPE
FG	- FINISHED GRADE	VCP	- CLAY PIPE
FF	- FINISHED FLOOR	FL	- FLOWLINE
LL	- LOWER LEVEL	TS	- TAILSTAKE
TT	- TOP OF TURF	ELEV, EL	- ELEVATION
TC	- TOP OF CURB	PROP, PR	- PROPOSED
SG	- SUBGRADE	EXIST, EX	- EXISTING
MG	- METHANE GAS	TYP	- TYPICAL
		BMP	- BEST MANAGEMENT PRACTICES
		SWPPP	- STORMWATER POLLUTION PREVENTION PLAN

## BENCHMARK

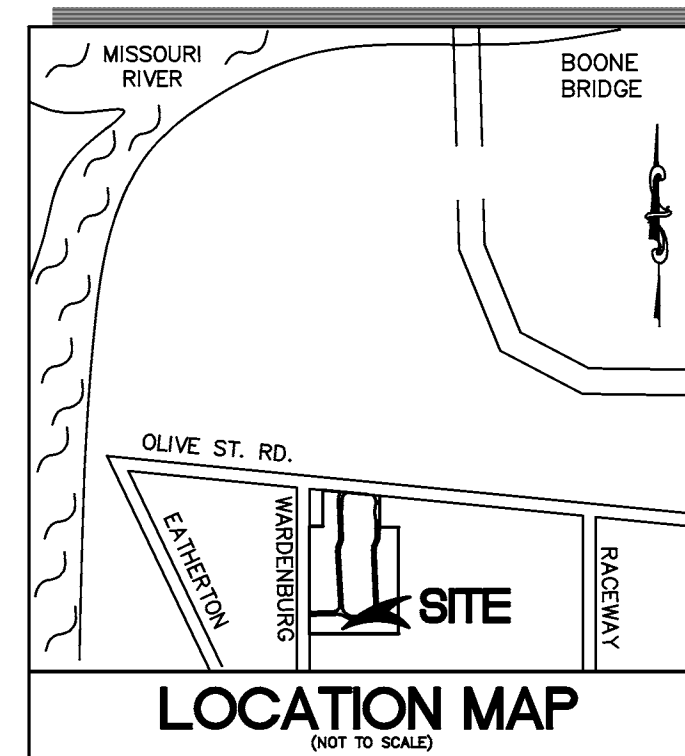
SL-40: BRASS DISC, STAMPED "SL-40, 1990" ON THE NORTH SIDE OF NORTH OUTER 40 RD, ACROSS FROM THE INTERSECTION OF SPIRIT OF ST. LOUIS BOULEVARD. ELEV.=486.55

## SITE BENCHMARK

ELEV.=461.90  
FND. IRON PIPE AT THE NORTHWEST CORNER OF SITE AS SHOWN HEREON.

PREPARED FOR:  
SR PROPERTIES IV, LLC  
616 SPIRIT VALLEY EAST DRIVE  
CHESTERFIELD, MO 63005  
ATTN: STEVE STODNICK / RANDY WILD  
PHONE: 636-728-0580  
SSTODNICK@PARAGONSTL.COM  
RWILD@PARAGONSTL.COM

LANDOWNER: SPIRIT VALLEY DEVELOPMENT, LLC  
8235 FORSYTH BOULEVARD, SUITE 210  
ST. LOUIS, MO 63105  
ATTN: DANIEL W. HAYES  
PHONE: 314-994-4068  
FAX: 314-994-4088  
DHAYES@NAIDESCO.COM



## SITE INFORMATION

ADDRESS LOT 7	= 600 SPIRIT VALLEY EAST DRIVE CHESTERFIELD, MO 63005
SITE AREA	= LOT 7: 2.911 ACRES
OWNER	= SPIRIT VALLEY DEVELOPMENT, LLC
OWNER UNDER CONTRACT	= SR PROPERTIES IV, LLC
CITY	= CITY OF CHESTERFIELD
ZONING	= "PI" PLANNED INDUSTRIAL
FLOOD MAP	= 29189C0120H
SEWER DISTRICT	= MSD
WATERSHED	= MISSOURI RIVER
FIRE DISTRICT	= MONARCH CHESTERFIELD
SCHOOL DISTRICT	= ROCKWOOD R-6
ELECTRIC SERVICE	= AMEREN
GAS SERVICE	= LACLEDE GAS
PHONE SERVICE	= ATT
WATER SERVICE	= MO. AMERICAN WATER CO.
CABLE SERVICE	= CHARTER COMMUNICATIONS

## NOTES

- BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. (BASIS OF BEARINGS: MISSOURI STATE PLANE, GRID NORTH)
- SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS PER MAP NO. 29189C0120 H WITH AN EFFECTIVE DATE OF AUGUST 2, 1995 AND REVISED TO REFLECT LOMR DATED APRIL 17, 2000. (APPROXIMATE 100 YR. EL. 460 PER CHESTERFIELD MASTER PLAN MODEL)
- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. SHOULD ANY CONFLICTS BE EVIDENT, THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE ENGINEER IMMEDIATELY.
- ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CHESTERFIELD VALLEY MASTER STORM WATER DRAINAGE PLAN AND AS DIRECTED BY THE CITY OF CHESTERFIELD AND MSD.
- ALL PROPOSED UTILITIES SHALL BE CONSTRUCTED TO THE CITY OF CHESTERFIELD STANDARDS.
- ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF CHESTERFIELD AND MSD STANDARDS.
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- THE MAXIMUM HEIGHT OF BUILDINGS SHALL NOT EXCEED FORTY (40) FEET.
- THIS SITE DEVELOPMENT SECTION PLAN WILL ADHERE TO THE PARKING AND LOADING REGULATIONS OF THE CITY OF CHESTERFIELD CODE.
- NO PARKING SHALL BE PERMITTED ON ANY ROADWAY IN OR ADJACENT TO THE DEVELOPMENT AS REQUIRED BY THE SITE SPECIFIC ORDINANCE.
- ALL UTILITIES WILL BE INSTALLED UNDERGROUND. THE DEVELOPMENT OF THIS PARCEL WILL COORDINATE THE INSTALLATION OF ALL UTILITIES IN CONJUNCTION WITH THE CONSTRUCTION OF ANY ROADWAY.
- SIGNAGE IN ACCORDANCE WITH THE REQUIRED SPIRIT VALLEY SIGN PACKAGE SHALL BE PROVIDED FOR THIS LOT.
- ALL LIGHTING SHALL CONFORM TO THE LIGHTING ORDINANCE OF THE CITY OF CHESTERFIELD
- PLANS SUBJECT TO CHANGE PENDING AGENCY REVIEWS AND FINAL ENGINEERING.
- ALL UTILITY BOXES, INCLUDING TRANSFORMERS AND METERS, EXCEPT WHEN FLUSH WITH GROUND, WILL BE SCREENED AS REQUIRED BY CITY OF CHESTERFIELD CODE (APPENDIX A, SECTION 1003.177.11(D)).

## SHEET INDEX

- SDSP-1 - TITLE SHEET
- SDSP-2 - SITE PLAN
- SDSP-3 - PHOTOMETRIC PLAN

## PARKING CALCULATIONS

REQUIRED PARKING:	
(MAXIMUM) WAREHOUSE:	2 SPACES FOR EVERY 3 EMPLOYEES ON THE MAXIMUM SHIFT (0 EMPLOYEES = 0 SPACES)
TOTAL PERMITTED (MINIMUM):	0 SPACES
(MINIMUM) WAREHOUSE:	1.2 SPACES PER EMPLOYEE ON THE MAXIMUM SHIFT (0 EMPLOYEES = 0 SPACES)
TOTAL PERMITTED:	0 SPACES
TOTAL PROVIDED (VISITORS):	4 SPACES (1 ACCESSIBLE)
REQUIRED LOADING:	10x40 LOADING SPACE (3)
TOTAL REQUIRED:	3 SPACE
TOTAL PROVIDED:	3 SPACE

## OPENSACE CALCULATIONS

TOTAL SITE AREA:	126,808 S.F.
BUILDING:	58,801 S.F.
VEHICLE PAVEMENT:	28,733 S.F.
PERCENT OPENSACE:	$[(126,808 - (58,801 + 28,733)) / 126,808] \times 100 = 30.97\%$

(Name of Owner(s)) \_\_\_\_\_ the owner under contract of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 1003.150 (applicable subsection) \_\_\_\_\_ P.I. \_\_\_\_\_ of the City of Chesterfield Ordinance No. 2745, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of the City of Chesterfield Council.

(Signature): \_\_\_\_\_  
(Name printed): \_\_\_\_\_

STATE OF MISSOURI }  
COUNTY OF ST. LOUIS } SS.

On this \_\_\_\_\_ day of \_\_\_\_\_, A.D., 2014, before me personally appeared \_\_\_\_\_, to me known, who, being by me duly sworn in, did say

(Officer of Corporation) \_\_\_\_\_ that say he/she is the \_\_\_\_\_ (Title) \_\_\_\_\_ (Name of Corporation) a corporation in the State of Missouri, and that the seal affixed to the foregoing instruments is the corporate seal of said corporation, and that said instrument was signed on behalf of said corporation by authority of its Board of Directors, and the

(Officer of Corporation) \_\_\_\_\_ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have signed and sealed the foregoing the day and year first above written.

\_\_\_\_\_  
Notary Public  
\_\_\_\_\_  
Print Name

My commission expires: \_\_\_\_\_  
This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the \_\_\_\_\_ day of \_\_\_\_\_ of 2014, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance Number 200, as attested to by the Planning and Development Services Director.

Almee E. Nassif, AICP  
Planning and Development Services Director  
City of Chesterfield, Missouri

Vickie Hass, City Clerk  
City of Chesterfield, Missouri

## SURVEYOR'S CERTIFICATION

THIS IS TO CERTIFY THAT STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS PREPARED THIS SITE DEVELOPMENT SECTION PLAN FROM A FIELD SURVEY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY. THIS SITE DEVELOPMENT SECTION PLAN IS A CORRECT REPRESENTATION OF ALL EXISTING AND PROPOSED LAND DIVISIONS.

STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.  
L.S. No. 222-D

By: DANIEL EHLMANN, MISSOURI L.S. NO. 2215

## GEOTECHNICAL STATEMENT

SCI ENGINEERING, INC., at the request of Keystone Construction Company has provided geotechnical services for the project proposed hereon. A geotechnical investigation was conducted during June 2014 for the development proposed hereon. Our findings indicate that the earth-related aspects are suitable for the development proposed pursuant to the geotechnical recommendations set forth in our Geotechnical Report THE PLACE - PHASE I, CHESTERFIELD, MISSOURI, dated June 2014. (SCI No. 2012-0153.14)

SHAWNNA L. ERTER, P.E.

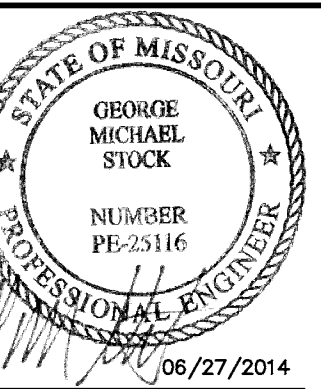
Date

PREPARED BY:

STOCK & ASSOCIATES  
Consulting Engineers, Inc.

257 Chesterfield Business Parkway  
St. Louis, MO 63015 PH: (636) 530-9100 FAX (636) 530-9100  
e-mail: general@stockassoc.com  
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:  
THE PLACE - LOT 7 OF SPIRIT VALLEY  
BUSINESS PARK (2.911 AC.±)  
600 SPIRIT VALLEY EAST DRIVE  
CHESTERFIELD, MISSOURI



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

## REVISIONS:

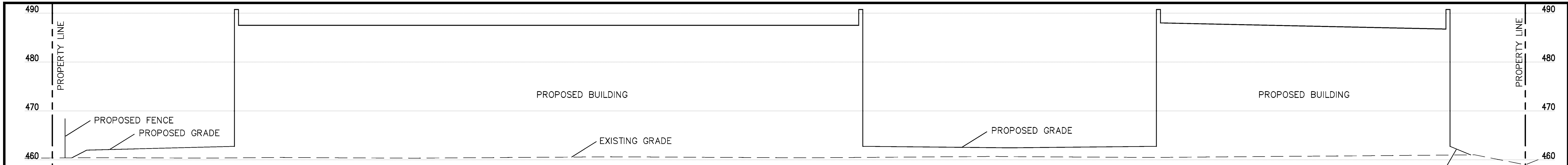
1 City Comments 06/27/14

DRAWN BY: E.L.F. CHECKED BY: G.M.S.  
DATE: 06/06/2014 JOB NO: 214-5282  
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P-XXXXX-XX XXX  
S.L.C. H&T #: H&T S.L.P. #  
XXXX XX-XX-XX  
M.D.N.R. #  
MO-XXXXXXX

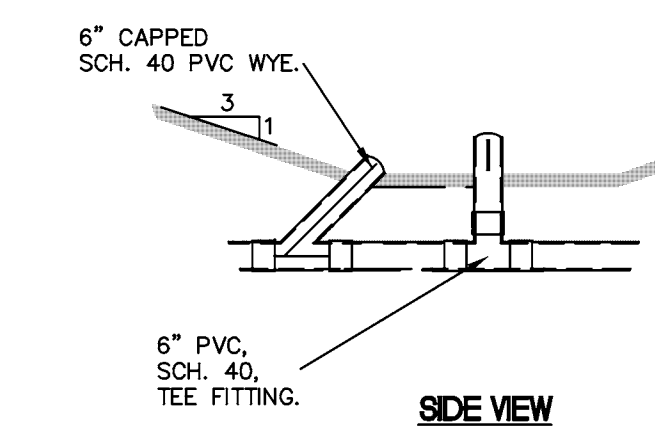
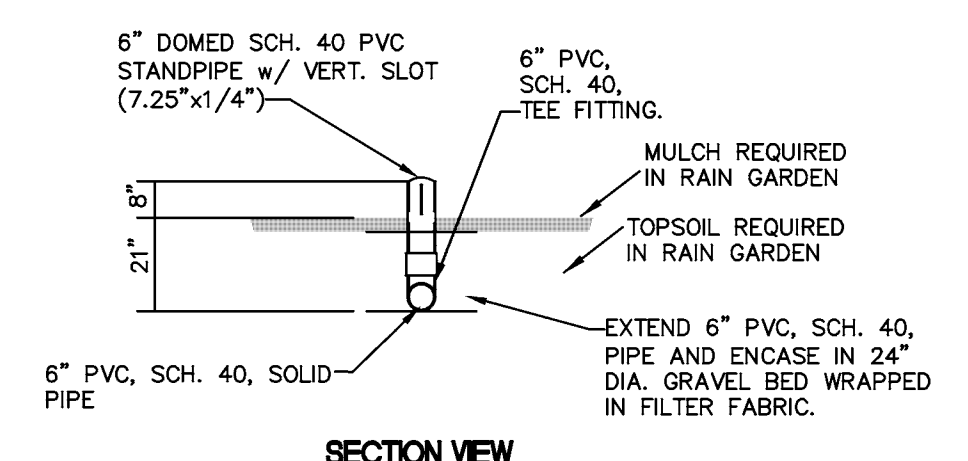
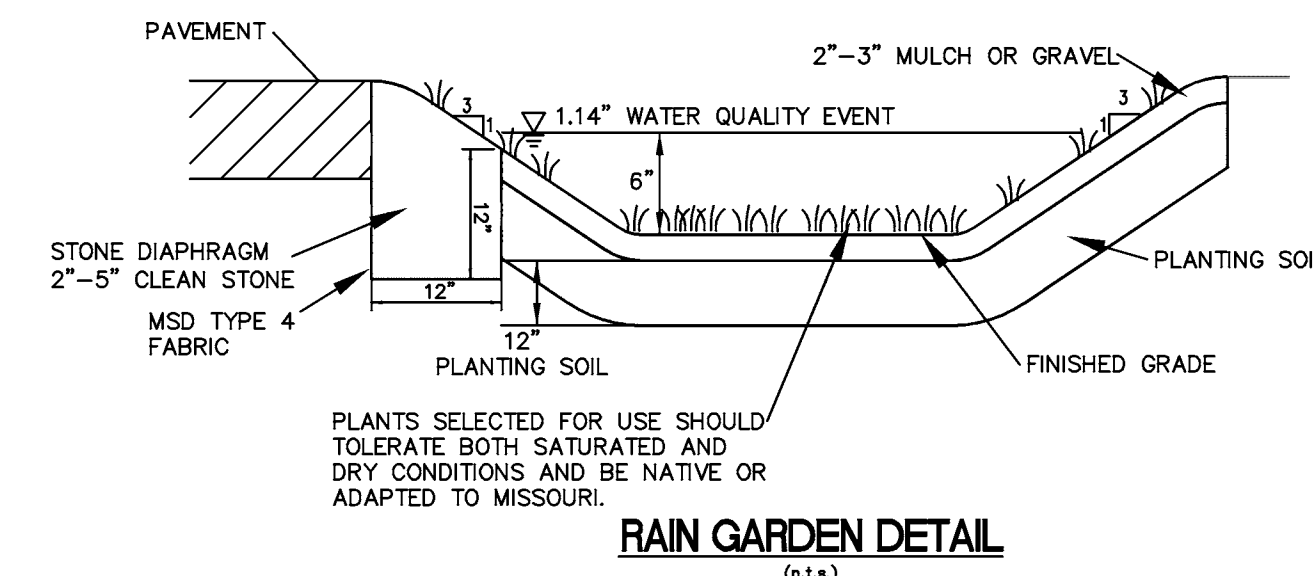
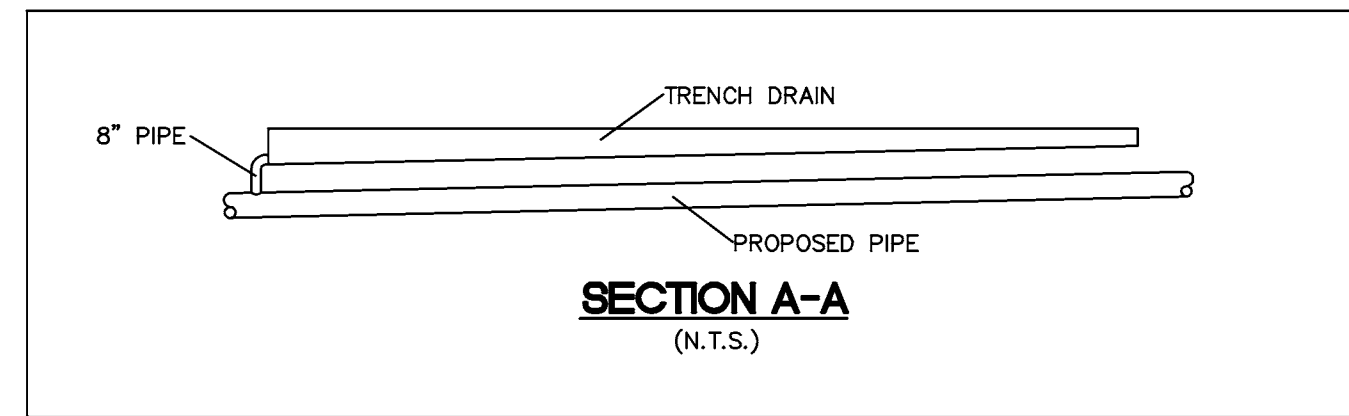
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TITLE SHEET

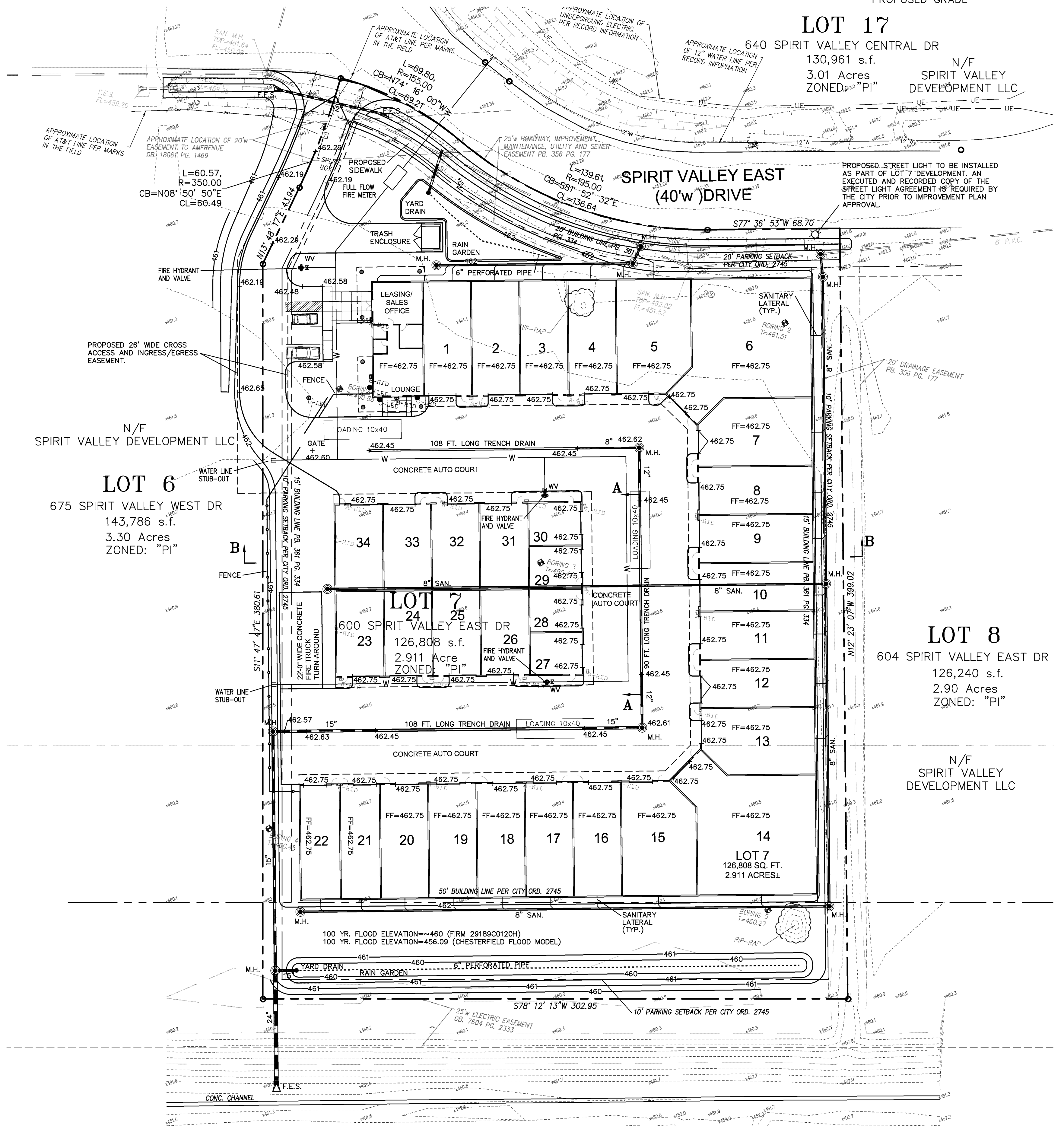
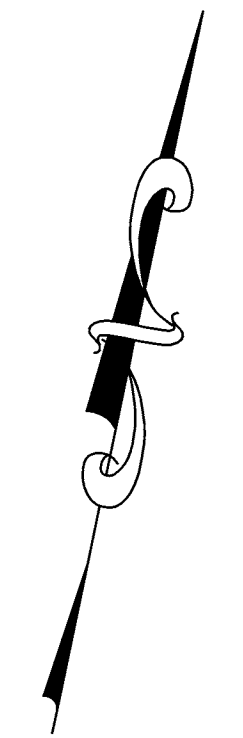
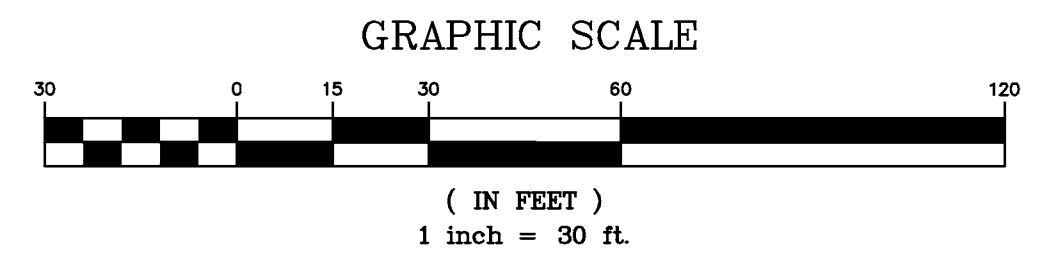
SHEET NO.:  
SDSP-1



**SECTION B-B**  
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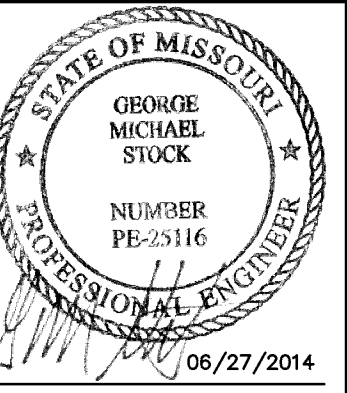


**RAIN GARDEN - STANDPIPE DETAIL**  
(n.t.s.)



PREPARED BY:  
**STOCK & ASSOCIATES**  
Consulting Engineers, Inc.  
257 Chesterfield Business Parkway  
St. Louis, MO 63015 PH: (636) 530-9100 FAX (636) 530-9100  
e-mail: general@stockassoc.com  
Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:  
**THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK (2.911 AC.±)**  
600 SPIRIT VALLEY EAST DRIVE  
CHESTERFIELD, MISSOURI



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

REVISIONS:

1	City Comments	06/27/14
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DRAWN BY: E.J.F.	CHECKED BY: G.M.S.
DATE: 06/06/2014	JOB NO: 214-5282
M.S.D. P # P-XXXXX-XX	BASE MAP # XXX
S.L.C. H&T # XXXX	H&T S.U.P. # XX-XXX-XX
M.D.N.R. # MO-XXXXXXX	

SHEET TITLE:  
**SITE PLAN**

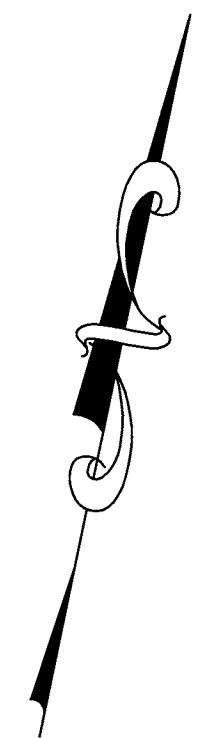
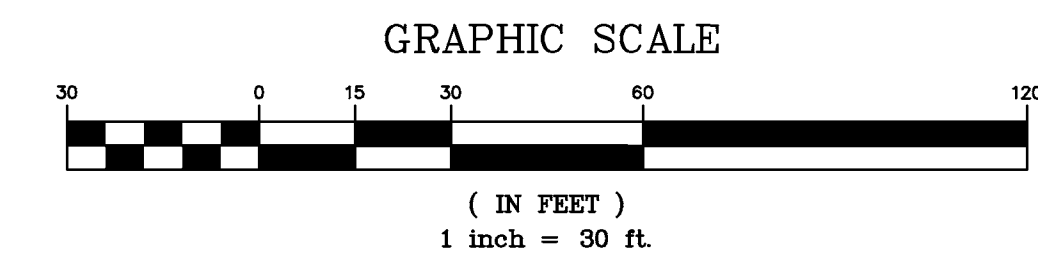
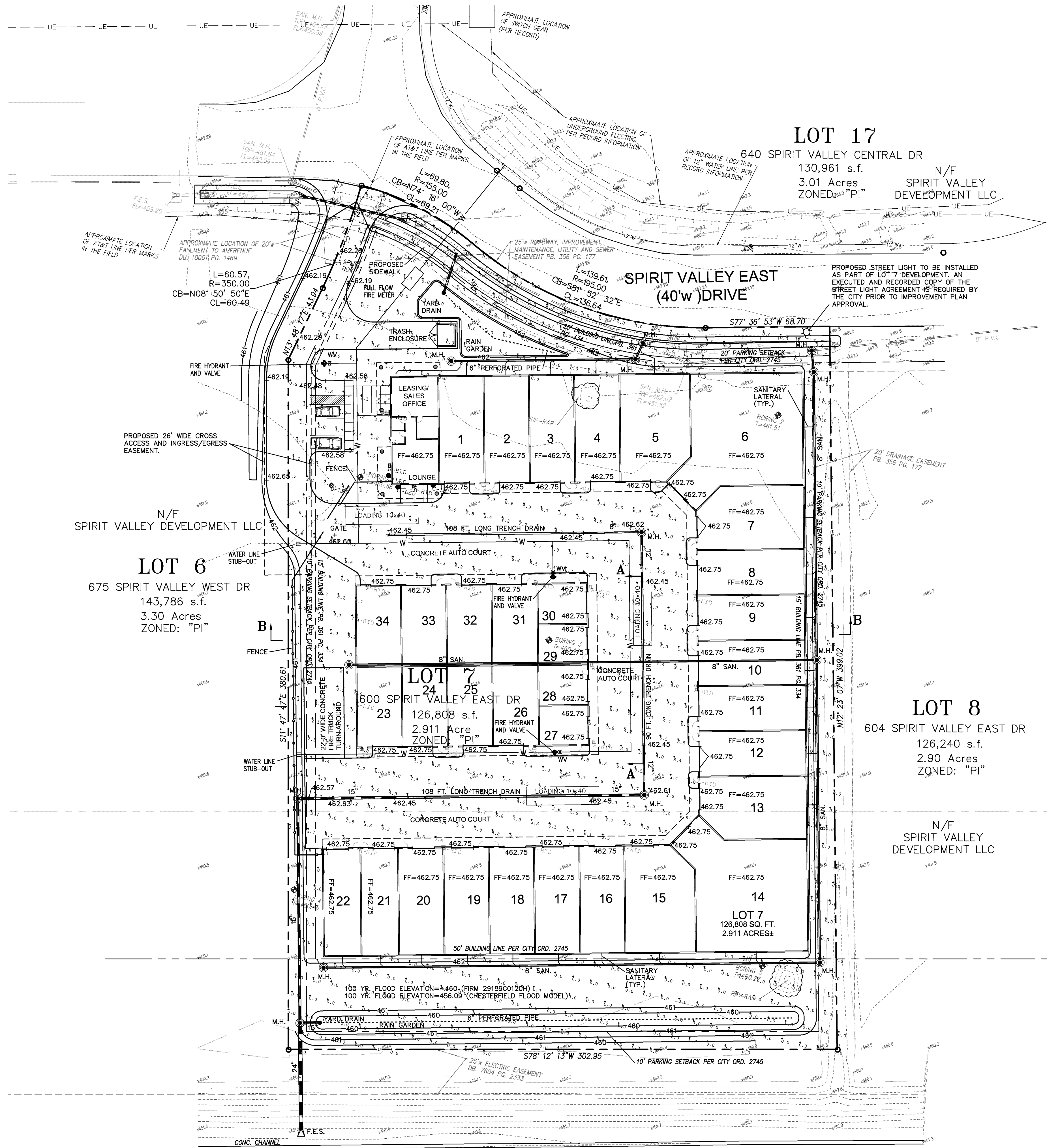
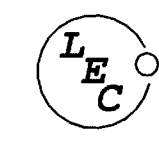
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**SDSP-2**

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Calculation Summary	Units	Max	Min	Avg/Min	Max/Min
All Calcpts	FC	2.15	9.6	0.0	N/A
Drive	FC	2.43	2.4	1.0	2.43
Main Entrance	FC	2.31	3.3	1.0	2.31

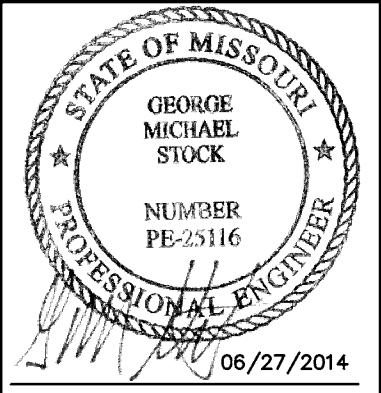
Submittal Schedule	Label	Description	Turn Limits	FF	Low	Water
1	W01E3 250000	WALL MOUNTED AT 14' AVG	13434	0.720	250	
2	W01E4 250000	WALL MOUNTED AT 27' AVG	13374	0.720	250	
3	W01E5 250000	WALL MOUNTED AT 27' AVG	13374	0.720	250	
4	W01E6 250000	WALL MOUNTED AT 27' AVG	13374	0.720	250	
5	W01E7 250000	WALL MOUNTED AT 27' AVG	13374	0.720	250	

Filename: The Place Auto Storage (HID).AGI  
 Date: 6/26/2014  
 Calculations Provided by Luikart-Bason-Calcatera & Co.  
 11088 Millpark Dr. Suite 120 Maryland Heights, Mo. 63043  
 Phone: 314-298-7500 Fax 314-298-8508 www.lucalc.com



PREPARED BY:  
**STOCK & ASSOCIATES**  
 Consulting Engineers, Inc.  
 257 Chesterfield Business Parkway  
 St. Louis, MO 63015 PH: (636) 530-9100 FAX (636) 530-9130  
 e-mail: general@stockassoc.com  
 Web: www.stockassoc.com

SITE DEVELOPMENT SECTION PLAN FOR:  
**THE PLACE - LOT 7 OF SPIRIT VALLEY BUSINESS PARK (2.911 AC.±)**  
 600 SPIRIT VALLEY EAST DRIVE  
 CHESTERFIELD, MISSOURI



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

REVISIONS:

1	City Comments	06/27/14
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DRAWN BY:	E.J.F.	CHECKED BY:	G.M.S.
DATE:	06/06/2014	JOB NO.:	214-5282
M.S.D. P. #:	P-XXXX-XX	BASE MAP #:	XXX
S.L.C. H&T #:	XXXX	H&T S.U.P. #:	XX-XX-XX
M.D.N.R. #:	MO-XXXXXX		

SHEET TITLE:

PHOTOMETRIC PLAN

SHEET NO.: SDSP-3

DRAWING FILE: C:\DWG\HID\HID\SDSP-3.dwg; Date: 06/27/2014 11:11 AM; PLOTTED BY: W.B. BAKER



**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D3/250PMH/VOLTAGE/  
STANDARD COLOR

Notes:

Type:

**A-HID**

LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

revision 9/05/08 • wd18.pdf

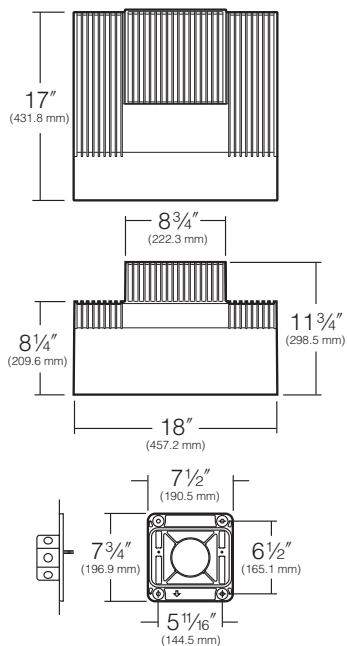
**Type:****Job:****Catalog number:**

\_\_\_\_ / \_\_\_\_ / \_\_\_\_  
 Fixture      Electrical Module      Finish      Options  
 \_\_\_\_\_ See page 2      \_\_\_\_\_ See pages 3-4

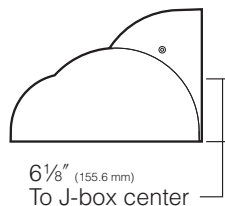
**Approvals:****Date:****Page: 1 of 5**

## Specifications

Maximum Fixture  
Weight (400HPS) = 43 lb



**Mounting Plate** must be securely attached to wall outside the J-box perimeter.



**Reflector Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against ballast housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

**Ballast Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the reflector housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

**Type II, III, and IV Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing by a no-tool quick-disconnecting hinge and fastener. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. Available in three light distributions, all interchangeable within the same housing.

**Wall Grazer Reflector Module:** Specular Alzak® optical segment is rigidly formed into a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black louver vanes run parallel to the lamp arc for controlling the hot spot directly behind the fixture, and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

**Spot Reflector Module:** Specular Alzak® optical spun parabola is rigidly mounted to a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black internal louvers are provided to control the beam and prevent hot spots directly behind the fixture and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.

**Electrical Components:** High power factor ballasts are rigidly mounted inside the housing and are factory prewired with a quick-disconnect plug for mating to the socket. Starting temperatures are -40°F for HPS lamp modes and -20°F for PMH lamp modes.

**Mounting Plate:** The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

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

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

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	25C Ambient
	IP66 Rated	

<sup>1</sup>Suitable for wet locations

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

**Job Name:**  
The Place Storage**Catalog Number:**WD18D3/250PMH/VOLTAGE/  
STANDARD COLOR

Notes:

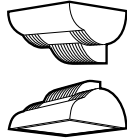
**Type:****A-HID**

LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

revision 9/05/08 • wd18.pdf

**Type:****Job:****Page: 2 of 5****Standard Features****Fixture**Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3, 4, G or S).

WD Fixture

Light Distribution:



Type II



Type III



Type IV



Wall Grazer



Spot

Cat. No.: (Up 18°)

 **WD18U2** **WD18U3** **WD18U4** **WD18UG** **WD18US**

Cat. No.: (Down 18°)

 **WD18D2** **WD18D3** **WD18D4** **WD18DG** **WD18DS****Finish**

Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray® Platinum Silver White Custom Color<sup>1</sup>Cat. No.:  **BL** **DB** **LG** **SG** **PS** **WH** **CC**<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times.

Consult representative. Custom color description: \_\_\_\_\_

**Job Name:**  
The Place Storage**Catalog Number:**  
WD18D3/250PMH/VOLTAGE/  
STANDARD COLOR

Notes:

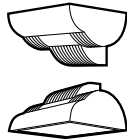
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LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

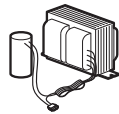
revision 9/05/08 • wd18.pdf

**Type:****Job:****Page: 3 of 5**

## Standard Features

### Electrical Module

**PMH** = Pulse Start Metal Halide  
**HPS** = High Pressure Sodium  
**IF** = Induction Fluorescent



Lamp Watts	Lamp Type	Line Volts
250	PMH	277

Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

**WARNING:** Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury. For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative. Lamps by others.

**NOTE:** For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

**SPECIFY VOLTAGE**

## Pulse Start Metal Halide

<input type="checkbox"/> 200PMH120	<input checked="" type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120
<input type="checkbox"/> 200PMH208	<input checked="" type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208
<input type="checkbox"/> 200PMH240	<input checked="" type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240
<input type="checkbox"/> 200PMH277	<input checked="" type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277
<input type="checkbox"/> 200PMH347	<input checked="" type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347
<input type="checkbox"/> 200PMH480	<input checked="" type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480

Lamp	T15 Clear	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	M136	M138	M154, M132

## Pulse Start Metal Halide

<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120
<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208
<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240
<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277
<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347
<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480

Lamp	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base
ANSI Ballast	M131	M135, M155

## High Pressure Sodium

<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 250HPS120	<input type="checkbox"/> 400HPS120
<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 250HPS208	<input type="checkbox"/> 400HPS208
<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 250HPS240	<input type="checkbox"/> 400HPS240
<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 250HPS277	<input type="checkbox"/> 400HPS277
<input type="checkbox"/> 150HPS347	<input type="checkbox"/> 250HPS347	<input type="checkbox"/> 400HPS347
<input type="checkbox"/> 150HPS480 <sup>1</sup>	<input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS480

Lamp	E18 Clear,	ED18 Clear,	ED18 Clear	Induction
Socket	Mogul Base	Mogul Base	Mogul Base	
ANSI Ballast	S55	S50	S51	

## Induction Fluorescent

<input type="checkbox"/> 85IF120'
<input type="checkbox"/> 85IF208'
<input type="checkbox"/> 85IF240'
<input type="checkbox"/> 85IF277'

<sup>1</sup> 85W IF lamps are available for WC18 only. Not recommended for all distribution types.**NOTE:** Refer to WD14 spec sheet for compact fluorescent models.

**CAUTION:** All manufacturers of metal halide lamps recommend turning them off for 15 minutes once per week when under continuous operation. This will reduce the risk of arc tube rupture at end of life. Also, color temperature may differ between manufacturers of metal halide lamps. See lamp manufacturers' specification sheets.

**NOTE:** Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.

([http://www.aboutlightingcontrols.org/education/papers/2008\\_energy\\_law.shtml#metahalide](http://www.aboutlightingcontrols.org/education/papers/2008_energy_law.shtml#metahalide)).



**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D3/250PMH/VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**A-HID**

LEC-STL14-41792



**KIM LIGHTING**

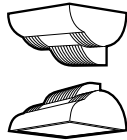
**WD18**  
18" Wall Director®

revision 9/05/08 • wd18.pdf

**Type:**

**Job:**

**Page: 4 of 5**



## Optional Features

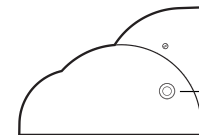
### Photocell Control

Cat. No. (see right)

No Option

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
<input type="checkbox"/> A-30	120V	<input type="checkbox"/> A-33	277V
<input type="checkbox"/> A-31	208V	<input type="checkbox"/> A-34	480V
<input type="checkbox"/> A-32	240V	<input type="checkbox"/> A-35	347V



Photocell Control

### Houseside Shield

Cat. No. (see right)

HS  
 HSC  
 No Option

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the amounts shown.

**CAUTION:** Do not use the Houseside Shield option with the Wall Grazer as it will interfere with the light distribution.

Approximate Light Reduction Toward Wall	Type II	Type III	Type IV
	-72%	-73%	-84%



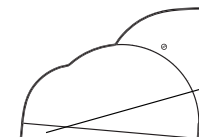
**HS**  
for flat lens

**HSC**  
for Lexan® enclosure

### 5° Shield

Cat. No.  5DS18  
 No Option

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



5° Shield

### Lexan® Non-yellowing Enclosure:

Cat. No.  LS  
 No Option

**For DOWN fixture models only.** Clear convex vacuum formed non-yellowing Lexan® enclosure with gasket replaces standard tempered glass lens. 250W max. May be used with 400W HPS only in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

**NOTE:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and MH lamps. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.



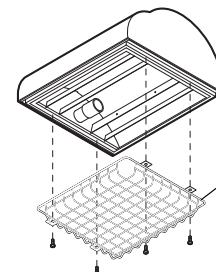
Lexan® enclosure

### Wire Guard

Cat. No.  WG18  
 No Option

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

**NOTE:** Only available with flat lens applications.



Wire Guard





**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D3/250PMH/VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**A-HID**

LEC-STL14-41792



**KIM LIGHTING**

**WD18**

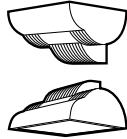
18" Wall Director®

revision 9/05/08 • wd18.pdf

**Type:**

**Job:**

**Page: 5 of 5**



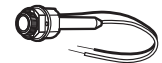
## Optional Features

### Fusing

Cat. No. **(see right)**  
 No Option

Line Volts: 120V 208V 240V 277V 347V 480V

Cat. No.:  SF  DF  DF  SF  SF  DF



### Quartz Standby

Cat. No.  QS  
 No Option

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to H.I.D. lamp reaching full brightness. T-4 halogen lamp by others; 150 watt maximum.



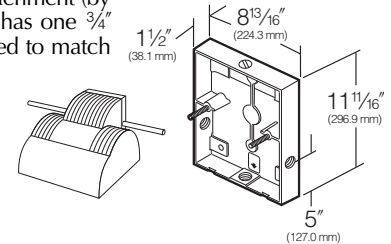
### Surface Conduit Mount

Cat. No.  SCM18  
 No Option

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one  $\frac{3}{4}$ " NPT conduit tap in each side, top and bottom. Finished to match the fixture.

**SCM18** for all fixtures, UP and DOWN.

**Note:** Must be securely mounted to all surface.



**Job Name:**  
The Place Storage**Catalog Number:**  
WD18D4/400PMH/VOLTAGE/  
STANDARD COLOR

Notes:

**Type:****B-HID**

LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

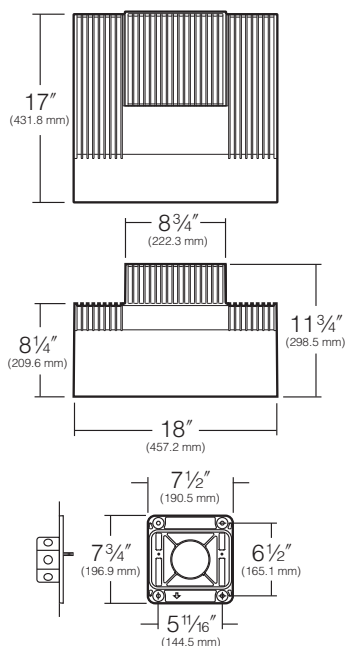
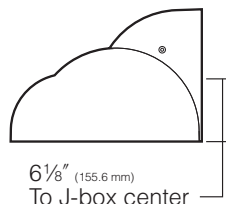
revision 9/05/08 • wd18.pdf

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

/	/	/
Fixture	Electrical Module	Finish
See page 2		Options See pages 3-4

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

## Specifications

Maximum Fixture  
Weight (400HPS) = 43 lb**Mounting Plate** must be securely attached to wall outside the J-box perimeter.**Reflector Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against ballast housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.**Ballast Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the reflector housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.**Type II, III, and IV Reflector Module:** Specular Alzak® optical segments are rigidly mounted within a die-cast aluminum enclosure that attaches to the housing by a no-tool quick-disconnecting hinge and fastener. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast. Available in three light distributions, all interchangeable within the same housing.**Wall Grazer Reflector Module:** Specular Alzak® optical segment is rigidly formed into a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black louver vanes run parallel to the lamp arc for controlling the hot spot directly behind the fixture, and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.**Spot Reflector Module:** Specular Alzak® optical spun parabola is rigidly mounted to a self-contained module which attaches to the housing by a no-tool quick-disconnecting hinge and fastener. Black internal louvers are provided to control the beam and prevent hot spots directly behind the fixture and spill light into the atmosphere. All sockets are mogul base with HPS and PMH rated 4KV with molded silicone lamp stabilizers. All modules are factory prewired with a quick-disconnect plug for mating to the ballast.**Electrical Components:** High power factor ballasts are rigidly mounted inside the housing and are factory prewired with a quick-disconnect plug for mating to the socket. Starting temperatures are -40°F for HPS lamp modes and -20°F for PMH lamp modes.**Mounting Plate:** The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.**Finish:** Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; A.S.T.M. 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray®, Platinum Silver, or White. Custom colors are available.**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

### Listings and Ratings

UL cUL 1598 <sup>1</sup>	CE	25C Ambient
	IP66 Rated	

<sup>1</sup>Suitable for wet locations

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

**Job Name:**  
The Place Storage**Catalog Number:**  
WD18D4/400PMH/VOLTAGE/  
STANDARD COLOR

Notes:

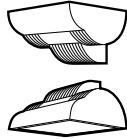
**Type:****B-HID**

LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

revision 9/05/08 • wd18.pdf

**Type:****Job:****Page: 2 of 5****Standard Features****Fixture**Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3, 4, G or S).

WD Fixture



Type II



Type III



Type IV



Wall Grazer



Spot

Light Distribution:

Cat. No.: (Up 18°)

 **WD18U2** **WD18U3** **WD18U4** **WD18UG** **WD18US**

Cat. No.: (Down 18°)

 **WD18D2** **WD18D3** **WD18D4** **WD18DG** **WD18DS****Finish**

Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray® Platinum Silver White Custom Color<sup>1</sup>Cat. No.:  **BL**  **DB**  **LG**  **SG**  **PS**  **WH**  **CC**<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times.

Consult representative. Custom color description: \_\_\_\_\_

**Job Name:**  
The Place Storage**Catalog Number:**  
WD18D4/400PMH/VOLTAGE/  
STANDARD COLOR

Notes:

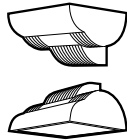
**Type:****B-HID**

LEC-STL14-41792

**KIM LIGHTING****WD18**

18" Wall Director®

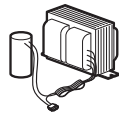
revision 9/05/08 • wd18.pdf

**Type:****Job:****Page: 3 of 5**

## Standard Features

### Electrical Module

**PMH** = Pulse Start Metal Halide  
**HPS** = High Pressure Sodium  
**IF** = Induction Fluorescent



Lamp	Watts	Lamp Type	Line Volts
250	PMH	277	

Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

**WARNING:** Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury. For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative. Lamps by others.

**NOTE:** For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

## Pulse Start Metal Halide

<input type="checkbox"/> 200PMH120	<input type="checkbox"/> 250PMH120	<input type="checkbox"/> 320PMH120
<input type="checkbox"/> 200PMH208	<input type="checkbox"/> 250PMH208	<input type="checkbox"/> 320PMH208
<input type="checkbox"/> 200PMH240	<input type="checkbox"/> 250PMH240	<input type="checkbox"/> 320PMH240
<input type="checkbox"/> 200PMH277	<input type="checkbox"/> 250PMH277	<input type="checkbox"/> 320PMH277
<input type="checkbox"/> 200PMH347	<input type="checkbox"/> 250PMH347	<input type="checkbox"/> 320PMH347
<input type="checkbox"/> 200PMH480	<input type="checkbox"/> 250PMH480	<input type="checkbox"/> 320PMH480

Lamp	T15 Clear	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base	Mogul Base
ANSI Ballast	M136	M138	M154, M132

## Pulse Start Metal Halide

<input type="checkbox"/> 350PMH120	<input type="checkbox"/> 400PMH120
<input type="checkbox"/> 350PMH208	<input type="checkbox"/> 400PMH208
<input type="checkbox"/> 350PMH240	<input type="checkbox"/> 400PMH240
<input type="checkbox"/> 350PMH277	<input type="checkbox"/> 400PMH277
<input type="checkbox"/> 350PMH347	<input type="checkbox"/> 400PMH347
<input type="checkbox"/> 350PMH480	<input type="checkbox"/> 400PMH480

SPECIFY VOLTAGE

Lamp	ED28 Clear	ED28 Clear
Socket	Mogul Base	Mogul Base
ANSI Ballast	M131	M135, M155

## High Pressure Sodium

<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 250HPS120	<input type="checkbox"/> 400HPS120
<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 250HPS208	<input type="checkbox"/> 400HPS208
<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 250HPS240	<input type="checkbox"/> 400HPS240
<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 250HPS277	<input type="checkbox"/> 400HPS277
<input type="checkbox"/> 150HPS347	<input type="checkbox"/> 250HPS347	<input type="checkbox"/> 400HPS347
<input type="checkbox"/> 150HPS480 <sup>1</sup>	<input type="checkbox"/> 250HPS480	<input type="checkbox"/> 400HPS480

## Induction Fluorescent

<input type="checkbox"/> 85IF120'
<input type="checkbox"/> 85IF208'
<input type="checkbox"/> 85IF240'
<input type="checkbox"/> 85IF277'

Lamp	E18 Clear,	ED18 Clear,	ED18 Clear	Induction
Socket	Mogul Base	Mogul Base	Mogul Base	
ANSI Ballast	S55	S50	S51	

<sup>1</sup> 85W IF lamps are available for WC18 only. Not recommended for all distribution types.**NOTE:** Refer to WD14 spec sheet for compact fluorescent models.

**CAUTION:** All manufacturers of metal halide lamps recommend turning them off for 15 minutes once per week when under continuous operation. This will reduce the risk of arc tube rupture at end of life. Also, color temperature may differ between manufacturers of metal halide lamps. See lamp manufacturers' specification sheets.

**NOTE:** Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.

([http://www.aboutlightingcontrols.org/education/papers/2008\\_energy\\_law.shtml#metahalide](http://www.aboutlightingcontrols.org/education/papers/2008_energy_law.shtml#metahalide)).



**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D4/400PMH/VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**B-HID**

LEC-STL14-41792



**KIM LIGHTING**

**WD18**

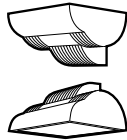
18" Wall Director®

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**Type:**

**Job:**

**Page: 4 of 5**



## Optional Features

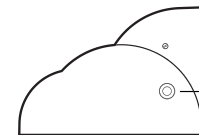
### Photocell Control

Cat. No. (see right)

No Option

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
<input type="checkbox"/> A-30	120V	<input type="checkbox"/> A-33	277V
<input type="checkbox"/> A-31	208V	<input type="checkbox"/> A-34	480V
<input type="checkbox"/> A-32	240V	<input type="checkbox"/> A-35	347V



Photocell Control

### Houseside Shield

Cat. No. (see right)

HS  
 HSC  
 No Option

Combination louver shield and black end-panel for reflector. Factory installed to reflector module. Reduces light toward wall by the amounts shown.

**CAUTION:** Do not use the Houseside Shield option with the Wall Grazer as it will interfere with the light distribution.

Approximate Light Reduction Toward Wall	Type II	Type III	Type IV
	-72%	-73%	-84%



**HS**  
for flat lens



**HSC**  
for Lexan® enclosure

### 5° Shield

Cat. No.  5DS18  
 No Option

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



5° Shield

### Lexan® Non-yellowing Enclosure:

Cat. No.  LS  
 No Option

**For DOWN fixture models only.** Clear convex vacuum formed non-yellowing Lexan® enclosure with gasket replaces standard tempered glass lens. 250W max. May be used with 400W HPS only in outdoor locations where ambient air temperature during fixture operation will not exceed 85°F.

**NOTE:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight and MH lamps. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.



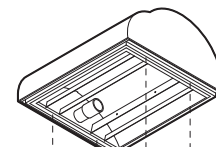
Lexan® enclosure

### Wire Guard

Cat. No.  WG18  
 No Option

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.

**NOTE:** Only available with flat lens applications.



Wire Guard



**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D4/400PMH/VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**B-HID**

LEC-STL14-41792



**KIM LIGHTING**

**WD18**

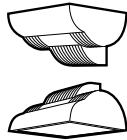
18" Wall Director®

revision 9/05/08 • wd18.pdf

**Type:**

**Job:**

**Page: 5 of 5**



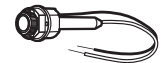
## Optional Features

### Fusing

Cat. No. **(see right)**  
 No Option

Line Volts: 120V 208V 240V 277V 347V 480V

Cat. No.:  SF  DF  DF  SF  SF  DF



### Quartz Standby

Cat. No.  QS  
 No Option

Integral electronic device energizes a T-4 mini-can socket during initial lamp start-up or after a power interruption. De-energizes prior to H.I.D. lamp reaching full brightness. T-4 halogen lamp by others; 150 watt maximum.



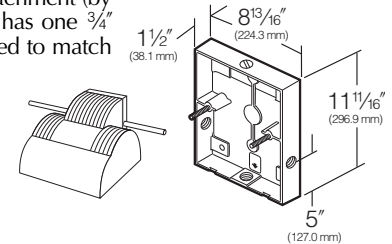
### Surface Conduit Mount

Cat. No.  SCM18  
 No Option

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one  $\frac{3}{4}$ " NPT conduit tap in each side, top and bottom. Finished to match the fixture.

**SCM18** for all fixtures, UP and DOWN.

**Note:** Must be securely mounted to all surface.





**Job Name:**  
The Place Storage

**Catalog Number:**

WD18D3E35-120L4K/STANDARD  
COLOR

Notes:

**Type:**

**A-LED**

LEC-STL14-41792



**KIM LIGHTING**

**WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:**

**Job:**

**Catalog number:**

/	/	/
Fixture	Electrical Module	Finish
See page 2		Options See pages 3-4

**Approvals:**

**Date:**

**Page: 1 of 5**

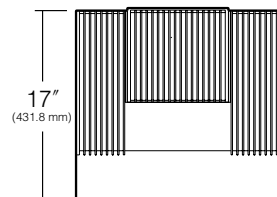
## Specifications

### WD18-LED

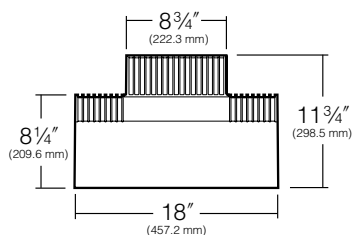
120 Light Emitting Diodes

Total Max System Watts = 127W

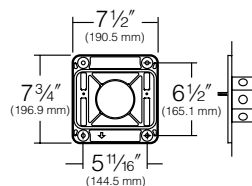
Maximum Weight = 43 lbs.



**TOP**

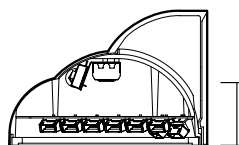


**FRONT**



### Mounting Plate

must be securely attached to wall outside the J-box perimeter.



6 1/8" (155.6 mm)  
to J-box center



HUBBELL LIGHTING, INC.

**SIDE**

**Optical Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against gear housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

**Gear Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the optical housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

**Electronic Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

**Optical Module:** Each precision, replaceable PicoEmitter is positioned to achieve directional control toward desired task. The entire EmitterDeck® fastens to the housing as a one-piece module.

**Mounting Plate:** The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**Listed To:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

**Warranty:** Kim Lighting warrants Wall Director LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitters) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield™ device, Surge Protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



**Job Name:**  
The Place Storage

**Catalog Number:**  
WD18D3E35-120L4K/STANDARD  
**COLOR**  
Notes:

**Type:**  
**A-LED**

LEC-STL14-41792

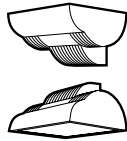


**WD18**  
18" Wall Director®, PicoEmitter™ LED  
revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:**

**Job:**

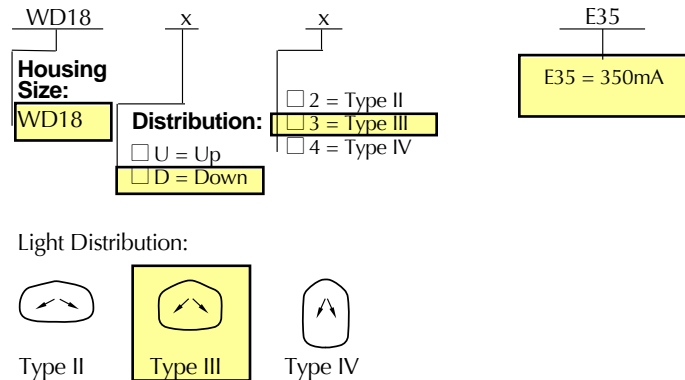
**Page: 2 of 5**



### Standard Features

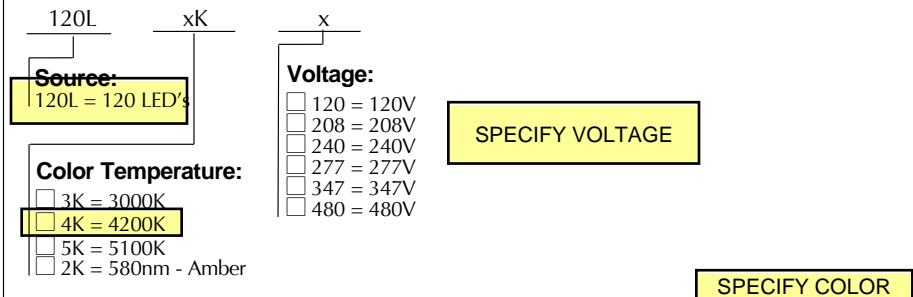
**Fixture**

Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3 or 4).



**Electrical Module**

Cat. Nos. for Electrical Modules available:



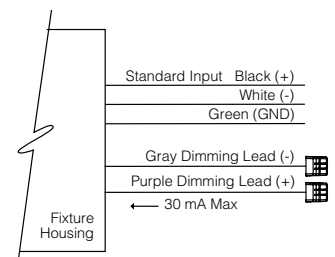
**Finish**

Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color<sup>1</sup>  
 Cat. No.:  BL  DB  LG  SG  PS  WH  CC  
<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

**0-10V Dimming Interface**

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation w/HUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.







**Job Name:**  
The Place Storage

**Catalog Number:**

WD18D3E35-120L4K/STANDARD  
COLOR

Notes:

**Type:**

**A-LED**

LEC-STL14-41792



**KIM LIGHTING**

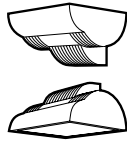
**WD18**  
18" Wall Director®, PicoEmitter™ LED

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**Type:**

**Job:**

**Page: 3 of 5**

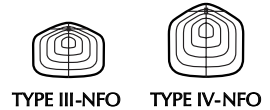


## Optional Features

### Neighbor Friendly Optic:

Cat. No.  NFO  
 No Option

Integrated Neighbor Friendly Optic on each PicoEmitter™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.



TYPE III-NFO

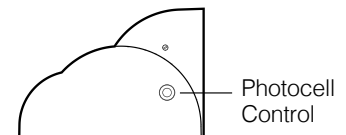
TYPE IV-NFO

### Photocell Control

Cat. No. **(see right)**  
 No Option

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
<input type="checkbox"/> A-30	120V	<input type="checkbox"/> A-33	277V
<input type="checkbox"/> A-31	208V	<input type="checkbox"/> A-34	480V
<input type="checkbox"/> A-32	240V	<input type="checkbox"/> A-35	347V

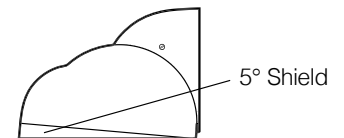


Photocell Control

### 5° Shield

Cat. No.  5DS18  
 No Option

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



5° Shield

### Polycarbonate Enclosure:

Cat. No.  LS  
 No Option

Clear polycarbonate enclosure with gasket replaces standard tempered glass lens.

**NOTE:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

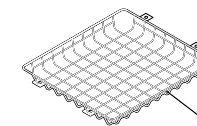


Flat Polycarbonate Lens

### Wire Guard

Cat. No.  WG18  
 No Option

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.



Wire Guard



**Job Name:**  
The Place Storage

**Catalog Number:**

WD18D3E35-120L4K/STANDARD  
COLOR

Notes:

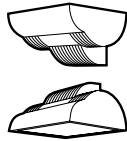
**Type:****A-LED**

LEC-STL14-41792

**KIM LIGHTING**

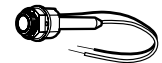
**WD18**  
18" Wall Director®, PicoEmitter™ LED

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**Type:****Job:****Page: 4 of 5****Optional Features****Fusing**

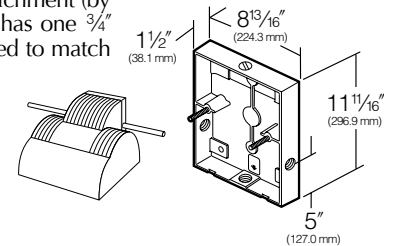
Cat. No. **(see right)**  
 No Option

Line Volts: 120V 208V 240V 277V 347V 480V

Cat. No.:  SF  DF  DF  SF  SF  DF**Surface Conduit Mount**

Cat. No.  SCM18  
 No Option

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one 3/4" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

**SCM18** for all fixtures, UP and DOWN.**Note:** Must be securely mounted to all surface.

**Job Name:**  
The Place Storage**Catalog Number:**WD18D3E35-120L4K/STANDARD  
COLOR

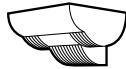
Notes:

**Type:****A-LED**

LEC-STL14-41792

**KIM LIGHTING****WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:****Job:****Page: 5 of 5**

## Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance*		
mA	100,000 hrs	(Calculated L70)
350	92.92%	554,000 hrs

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	1.06	127
208	0.61	127
240	0.53	127
277	0.46	127
347	0.37	127
480	0.26	127

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare					
Temperature	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO
3000K	B2 U0 G2	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2
4200K	B3 U0 G3	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2
5100K	B3 U0 G3	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2

Absolute Lumens					
Temperature	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO
3000K	7293	6999	N/A	7280	6021
4200K	9561	9188	N/A	9544	7893
5100K	10070	9664	N/A	10053	8314

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.



**Job Name:**  
The Place Storage

**Catalog Number:**

WD18D4E35-120L4K/STANDARD  
COLOR

Notes:

**Type:**

**ALT LED**

LEC-STL14-41792



**KIM LIGHTING**

**WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:**

**Job:**

**Catalog number:**

/	/	/
Fixture	Electrical Module	Finish
See page 2		Options See pages 3-4

**Approvals:**

**Date:**

**Page: 1 of 5**

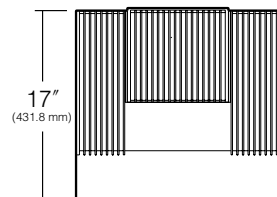
## Specifications

### WD18-LED

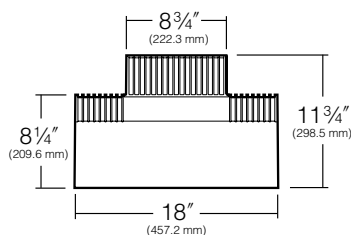
120 Light Emitting Diodes

Total Max System Watts = 127W

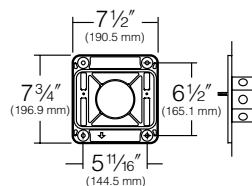
Maximum Weight = 43 lbs.



**TOP**

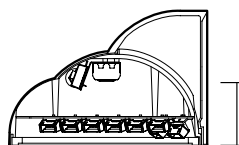


**FRONT**



### Mounting Plate

must be securely attached to wall outside the J-box perimeter.



6 1/8" (155.6 mm)  
to J-box center



HUBBELL LIGHTING, INC.

**SIDE**

**Optical Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Rotates against gear housing to provide 10° of adjustment with degree markers cast into the housing. At 0° adjustment, lens is totally concealed from view above horizontal with fixture aimed downward.

**Gear Housing:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral cooling fins. Fastens to mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on each side of housing frees the optical housing to rotate for aiming. Tightening the screws locks the two housings together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.

**Lens Frame:** One-piece die-cast, low copper (<0.6% Cu) aluminum alloy with integral hinges and stainless steel pins. Two stainless steel quarter-turn fasteners secure lens frame to reflector housing with sealing provided by a one-piece extruded and vulcanized silicone gasket. Lens is clear flat 3/16" thick tempered glass sealed to lens frame with a silicone gasket and retainer clips. For UP models, lens is mounted flush with frame for water run off, and is silicone sealed.

**Electronic Module:** All electrical components are UL and CSA recognized, mounted on a single plate and factory prewired with quick-disconnect plugs. Module includes a driver, thermal control device and surge protector. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame only. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

**Optical Module:** Each precision, replaceable PicoEmitter is positioned to achieve directional control toward desired task. The entire EmitterDeck® fastens to the housing as a one-piece module.

**Mounting Plate:** The standard mounting plate is attached to wall (by others) outside the junction box perimeter. All mounting plates are die-cast aluminum with reinforced ribs. Two studs are provided in each plate with flange nuts to allow fixture mounting by keyhole slots. Sealant must be applied (by others) between mounting plate and mounting surface to insure a dry junction box.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**Listed To:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires.

**Warranty:** Kim Lighting warrants Wall Director LED products ("Product(s)") sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of ten (10) years for exterior housing paint finish(s), (iii) a period of six (6) years for LED Light Engines (PicoEmitters) and, (iv) a period of five (5) years for LED power components (LED Driver, LifeShield™ device, Surge Protector), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



**Job Name:**  
The Place Storage

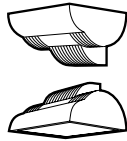
**Catalog Number:**  
WD18D4E35-120L4K/STANDARD  
**COLOR**  
Notes:

**Type:**  
**ALT LED**  
LEC-STL14-41792



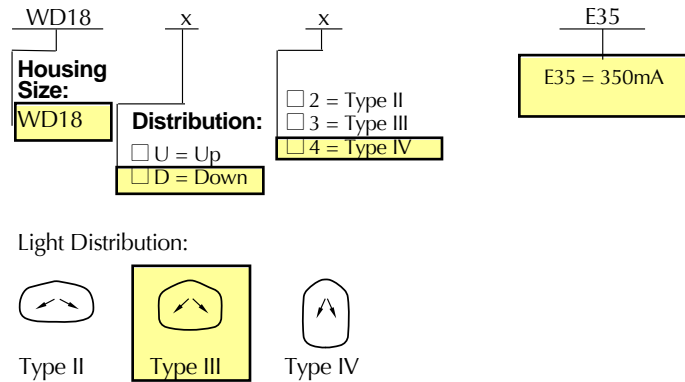
**WD18**  
18" Wall Director®, PicoEmitter™ LED  
revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:**  
**Job:**



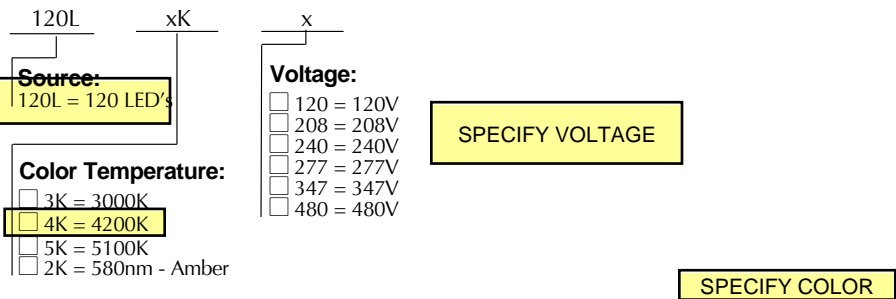
### Standard Features

**Fixture**  
Cat. No. designates **WD18** fixture, Up (U) or Down (D) configuration, and light distribution (2, 3 or 4).



**Electrical Module**

Cat. Nos. for Electrical Modules available:

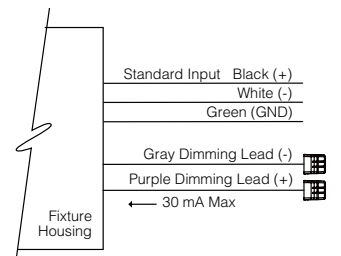


**Finish**  
Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color<sup>1</sup>  
Cat. No.:  BL  DB  LG  SG  PS  WH  CC  
<sup>1</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_

**0-10V Dimming Interface**

Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation w/HUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead.





**Job Name:**  
The Place Storage

**Catalog Number:**

WD18D4E35-120L4K/STANDARD  
COLOR

Notes:

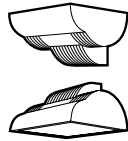
**Type:****ALT LED**

LEC-STL14-41792

**KIM LIGHTING**

**WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

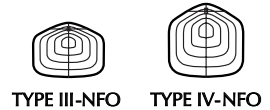
**Type:****Job:****Page: 3 of 5**

## Optional Features

**Neighbor Friendly Optic:**

Cat. No.  NFO  
 No Option

Integrated Neighbor Friendly Optic on each PicoEmitter™ module to completely control unwanted backlight. Most effective with Type III and IV distributions.



TYPE III-NFO

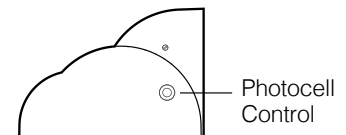
TYPE IV-NFO

**Photocell Control**

Cat. No. **(see right)**  
 No Option

Factory installed inside housing with fully gasketed sensor on side wall.

Cat. No.	Line Volts:	Cat. No.	Line Volts:
<input type="checkbox"/> A-30	120V	<input type="checkbox"/> A-33	277V
<input type="checkbox"/> A-31	208V	<input type="checkbox"/> A-34	480V
<input type="checkbox"/> A-32	240V	<input type="checkbox"/> A-35	347V

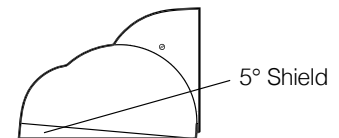


Photocell Control

**5° Shield**

Cat. No.  5DS18  
 No Option

Aluminum shield field-attached to lens frame. Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5°. Finished to match the fixture.



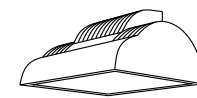
5° Shield

**Polycarbonate Enclosure:**

Cat. No.  LS  
 No Option

Clear polycarbonate enclosure with gasket replaces standard tempered glass lens.

**NOTE:** Use only when vandalism is anticipated to be high. Useful life is limited by UV discoloration from sunlight. A program of regular inspection and periodic replacement is highly recommended to maintain optimum fixture performance.

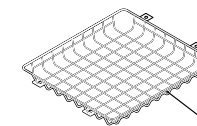


Flat Polycarbonate Lens

**Wire Guard**

Cat. No.  WG18  
 No Option

11 ga. (.12" dia.) BB Wire, (.75" sq. welded mesh pattern.) 15" x 14½" x 1½" deep. Finish is super TGIC thermoset polyester powder coat paint, over zinc plated wireform. Finished to match the fixture.



Wire Guard



**Job Name:**  
The Place Storage

**Catalog Number:**WD18D4E35-120L4K/STANDARD  
COLOR

Notes:

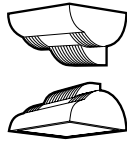
**Type:****ALT LED**

LEC-STL14-41792

**KIM LIGHTING**

**WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

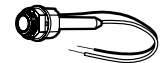
**Type:****Job:****Page: 4 of 5**

## Optional Features

### Fusing

Cat. No. **(see right)**  
 No Option

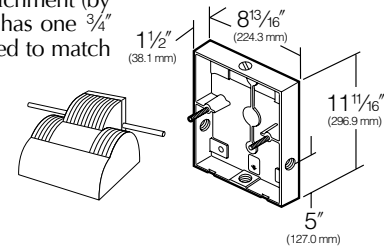
Line Volts: 120V 208V 240V 277V 347V 480V

Cat. No.:  SF  DF  DF  SF  SF  DF

### Surface Conduit Mount

Cat. No.  SCM18  
 No Option

Cast aluminum junction box and fixture mount for attachment (by others) to existing walls, beams or columns. **SCM18** has one 3/4" NPT conduit tap in each side, top and bottom. Finished to match the fixture.

**SCM18** for all fixtures, UP and DOWN.**Note:** Must be securely mounted to all surface.

**Job Name:**  
The Place Storage**Catalog Number:**

WD18D4E35-120L4K/STANDARD

**COLOR**

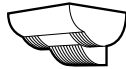
Notes:

**Type:****ALT LED**

LEC-STL14-41792

**KIM LIGHTING****WD18**  
18" Wall Director®, PicoEmitter™ LED

revision 1/14/14 • kim\_wd18eled\_spec.pdf

**Type:****Job:****Page: 5 of 5**

## Lumen Data

Spectroradiometric			
	3000K Average	4200K Average	5100K Average
Correlated Color Temp. CCT (K)	2800K-3175K	3800K-4600K	4600K-5600K
Color Rendering Index (CRI)	≤80	≤80	≤70
Power Factor	>.90	>.90	>.90

Projected Lumen Maintenance*		
mA	100,000 hrs	(Calculated L70)
350	92.92%	554,000 hrs

Electrical Drive Current		
Volts - AC	Amps - AC	System Watts
120	1.06	127
208	0.61	127
240	0.53	127
277	0.46	127
347	0.37	127
480	0.26	127

B.U.G. Rating (TM15) in Lumens wher B = Backlight, U = Uplight, G = Glare					
Temperature	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO
3000K	B2 U0 G2	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2
4200K	B3 U0 G3	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2
5100K	B3 U0 G3	B2 U0 G2	N/A	B1 U0 G2	B1 U0 G2

Absolute Lumens					
Temperature	TYPE 2	TYPE 3	TYPE 3 NFO	TYPE 4	TYPE 4 NFO
3000K	7293	6999	N/A	7280	6021
4200K	9561	9188	N/A	9544	7893
5100K	10070	9664	N/A	10053	8314

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.





**Job Name:**  
The Place Storage

**Catalog Number:**  
BNM-36LED-3K-VOLTAGE/1W/  
STANDARD COLOR

Notes:

Type:

**C-LED**

LEC-STL14-41792

**KIM LIGHTING****BNM**

Mini-Bounce™

revision 03/20/14 • kl\_bnm\_spec.pdf

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

\_\_\_\_\_ / BNM / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Mtg. Fixture Electrical Module Finish Options  
See page 2 See page 3 See pages 4 - 5

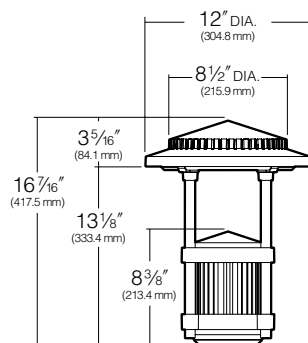
Select pole from Kim Pole Catalog (PRA or KRS). Omit for 1W Wall Mount.

**Approvals:**

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

## Specifications

35 to 150 watt HID  
42 watt Compact Fluorescent  
18, 27 or 36 LED



**Hood and Lens Frame:** Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening three stainless steel captive button-head socket cap screws. 3/16" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-3 universal socket is provided for fluorescent. No reflector provided for LED.

**Body Support:** Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. The die-cast aluminum cover is held with two captive stainless steel screws.

**StarView™ Black Ballast Cover:** Die-cast, low copper (<0.6% Cu) aluminum alloy, retained by two captive stainless steel screws. Matte black finish to eliminate bounce light. See page 5.

**Electrical Module:** Factory mounted to a rigid harness attached inside the body support. Access is by removal of the die-cast aluminum cover.

**HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F.

**LED Optical System:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 4000K and 5000K.

**LED Driver:** Rated for 18 or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

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

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

### Listings and Ratings

ETL <sup>1</sup> to UL Standards 1598 & 8750	IP66 Rated	CE	25C Ambient
Full Cut Off <sup>2</sup>			
IDA Rated - FS - Full Shielded			

<sup>1</sup>Suitable for wet locations<sup>2</sup>Dark Sky Legislation Compliant

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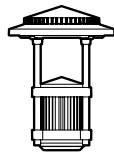
HUBBELL LIGHTING, INC.

U.S. Patent D473,333S


**KIM LIGHTING**
**BNM**

Mini-Bounce™

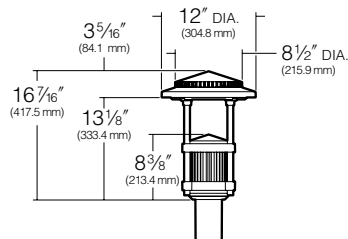
revision 03/20/14 • kl\_bnm\_spec.pdf

**Type:**
**Job:**
**Page: 2 of 5**


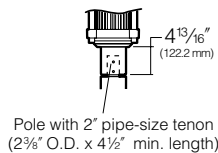
## Standard Mountings

### Specifications

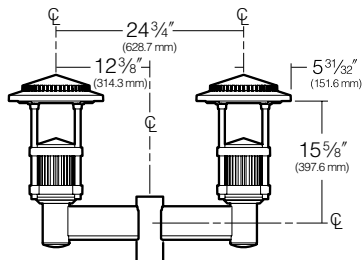
#### Flush Mount (FM)



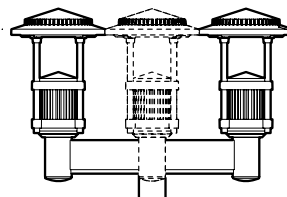
#### Post Tenon Top (PT)



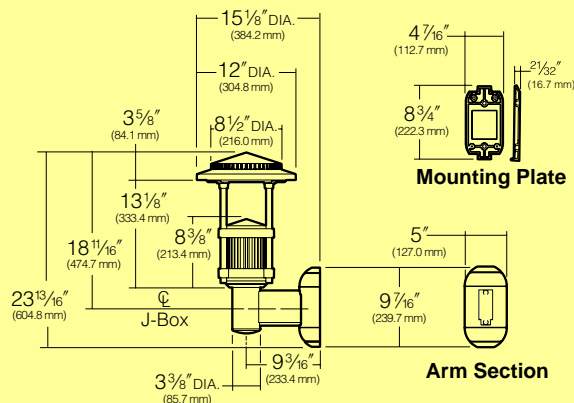
#### Twin Arm Mount (2B)



#### Quad Arm Mount (4C)



#### Wall Mount (1W)



Mount by one of the following:

**Flush Mount (FM):** Flush Mount to any 4" round pole with a wall thickness not more than .188" thick. A spreader assembly is provided to grip the inside surface of the pole. A single spreader bolt is accessible through the body support. (Other pole sizes, consult factory).

**Pole Tenon Mount (PT):** Pole Tenon Mount to any 2" pipe tenon (2 3/8" OD). A cast tenon adaptor is provided to slip-fit the tenon. (Other tenon sizes, consult factory).

**Twin Arm Mount (2B):** Side pole arm assemblies are provided to mount directly to the side of any pole surface. Specify square or round pole size when ordering. An extruded aluminum riser and arm is provided with extension rods and cast end caps. A steel backing plate is provided to reinforce the interior of the pole.

**Quad Arm Mount (4C):** Side pole arm assemblies are provided to mount directly to the side of any pole surface. Specify square or round pole size when ordering. An extruded aluminum riser and arm is provided with extension rods and cast end caps. A steel backing plate is provided to reinforce the interior of the pole.

**Wall Mounting (1W):** Wall mount arm is provided to attach to a flat surface. A cast mounting plate of aluminum, mounted to the wall with bolts (by others). Fixture and arm are then mounted to a cast aluminum cover plate before attaching to the wall mounting plate. The fixture-arm-cover plate assembly is hooked to the wall mounting plate, and secured with stainless steel screws provided. After mounting to the wall, field splices are made at the opening in the cover plate, then covered by a cast aluminum plate that blends with the cover plate design. Complete fixture-arm-cover plate assembly can therefore be mounted before field splices are made. Cover plate is finished to match arm and fixture powder coat color.

**Caution:** Structural integrity of mounting plate attachment to wall is by others.



**Job Name:**  
The Place Storage

**Catalog Number:**  
BNM-36LED-3K-VOLTAGE/1W/  
STANDARD COLOR

Notes:

**Type:**

**C-LED**

LEC-STL14-41792



**KIM LIGHTING**

**BNM**

Mini-Bounce™

revision 03/20/14 • kl\_bnm\_spec.pdf

**Type:**

**Job:**

**Page: 3 of 5**



## Standard Features

### Mounting:

Plan  
View:



EPA: 1.0  
Cat. No.:  **FM**

Flush Mount

EPA: 1.0  
Cat. No.:  **PT**

Tenon Mount

EPA: 3.0  
Cat. No.:  **2B**

Twin Mount

EPA: 4.5  
Cat. No.:  **4C**

Quad Mount

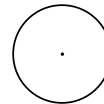
n/a  
 **1W**

Wall Mount

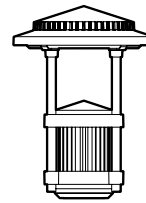
### Fixture:

Cat. No. designates **BNM** fixture and light distribution.

**Horizontal Lamp  
Flat Glass Lens**



Type V  
Round



**BNM**

Light Distribution:

Cat. No.:

**Job Name:**  
The Place Storage**Catalog Number:**  
BNM-36LED-3K-VOLTAGE/1W/  
STANDARD COLOR

Notes:

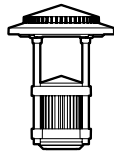
**Type:****C-LED**

LEC-STL14-41792

**KIM LIGHTING****BNM**

Mini-Bounce™

revision 03/20/14 • kl\_bnm\_spec.pdf

**Type:****Job:****Page: 4 of 5**

## Standard Features

**Electrical Module**

**PMH** = Pulse Start Metal Halide  
**HPS** = High Pressure Sodium  
**PL** = Compact Fluorescent  
**LED** = Light Emitting Diode

Lamp Lamp Line  
 Watts Type Volts

**100 HPS 277**

For PMH, HPS and PL.  
 See footnote 3 below for LED

Cat. Nos. for Electrical Modules available:

Pulse Start Metal Halide

<input type="checkbox"/> 35PMH120	<input type="checkbox"/> 70PMH120	<input type="checkbox"/> 100PMH120	<input type="checkbox"/> 150PMH120
<input type="checkbox"/> 35PMH208	<input type="checkbox"/> 70PMH208	<input type="checkbox"/> 100PMH208	<input type="checkbox"/> 150PMH208
<input type="checkbox"/> 35PMH240	<input type="checkbox"/> 70PMH240	<input type="checkbox"/> 100PMH240	<input type="checkbox"/> 150PMH240
<input type="checkbox"/> 35PMH277	<input type="checkbox"/> 70PMH277	<input type="checkbox"/> 100PMH277	<input type="checkbox"/> 150PMH277
<input type="checkbox"/> 35PMH347	<input type="checkbox"/> 70PMH347	<input type="checkbox"/> 100PMH347	<input type="checkbox"/> 150PMH347

Lamp	T-6, Clear	ED-17 Coated	T-6 Clear	ED-17, Coated	ED-17 Coated	T-6 Clear
Socket	G12 Base	Medium	G12 Base	Medium Base	Medium	G12 Base
ANSI Ballast	M-130	M-98		M-140 / M-90	M-102	

High Pressure Sodium

<input type="checkbox"/> 70HPS120	<input type="checkbox"/> 100HPS120	<input type="checkbox"/> 150HPS120	<input type="checkbox"/> 42PL120 <sup>1,2</sup>
<input type="checkbox"/> 70HPS208	<input type="checkbox"/> 100HPS208	<input type="checkbox"/> 150HPS208	<input type="checkbox"/> 42PL208 <sup>1,2</sup>
<input type="checkbox"/> 70HPS240	<input type="checkbox"/> 100HPS240	<input type="checkbox"/> 150HPS240	<input type="checkbox"/> 42PL240 <sup>1,2</sup>
<input type="checkbox"/> 70HPS277	<input type="checkbox"/> 100HPS277	<input type="checkbox"/> 150HPS277	<input type="checkbox"/> 42PL277 <sup>1,2</sup>
<input type="checkbox"/> 70HPS347	<input type="checkbox"/> 100HPS347	<input type="checkbox"/> 150HPS347	

Lamp	ED-17, Coated	ED-17, Coated	ED-17, Coated	Coated
Socket	Medium Base	Medium Base	Medium Base	GX24q-3 Base
ANSI Ballast	S-62	S-54	S-55	

LED

<input type="checkbox"/> 18L3KUV <sup>3</sup>	<input type="checkbox"/> 27L3KUV <sup>3</sup>	<input type="checkbox"/> 36L3KUV <sup>3</sup>
<input type="checkbox"/> 18L5KUV <sup>3</sup>	<input type="checkbox"/> 27L5KUV <sup>3</sup>	<input type="checkbox"/> 36L5KUV <sup>3</sup>



IES Type 1



IES Type 3



IES Type 5

Lamp	LED	LED	LED
Socket	N/A	N/A	N/A

<sup>1</sup> Operates one 42W triple tube compact fluorescent lamp at 120 through 277 volts (50-60 Hz).<sup>2</sup> Remote battery pack and test switch available for 42W compact fluorescent lamps - consult factory.**NOTE:** Lamp and electrical data supplied for reference purposes only. All initial lumen values shown may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

To reduce shadowing from the luminaire support arms, coated lamps are recommended.

**WARNING:** Fixtures must be installed and grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury. For lamp/ballast information outside of the U.S.A. and Canada, please consult our local Kim representative. Lamps by others.<sup>3</sup> For LED, 18L = 18 LED Emitters; 36L = 36 LED Emitters; 4K = 4000K color temperature; 5K = 5000K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.**SPECIFY COLOR****Finish**

Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color<sup>4</sup>Cat. No.:  BL  DB  LG  SG  PS  WH  CC<sup>4</sup>Custom colors subject to additional charges, minimum quantities and extended lead times.

Consult representative. Custom color description: \_\_\_\_\_

**Job Name:**  
The Place Storage**Catalog Number:**  
BNM-36LED-3K-VOLTAGE/1W/  
STANDARD COLOR

Notes:

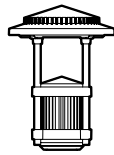
**Type:****C-LED**

LEC-STL14-41792

**KIM LIGHTING****BNM**

Mini-Bounce™

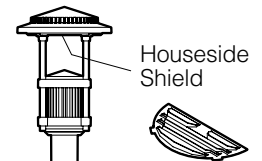
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**Type:****Job:****Page: 5 of 5**

## Optional Features

**Houseside Shield**Cat. No.  **HS**  
 **No Option**

Optional shield made of stamped louvered aluminum allows streetside light to pass while blocking houseside light. Blackened reflector panels within the reflector also reduces the houseside reflection.

Houseside  
Shield**Textured Glass Lens**Cat. No.  **TG**  
 **No Option**

Unique textured glass reduces LED glare and improves visual comfort.

**Fusing**Cat. No. **(see right)**  
 **No Option**

High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Line Volts:	120V	208V	240V	277V	347V
Cat. No.:	<input type="checkbox"/> <b>SF</b>	<input type="checkbox"/> <b>DF</b>	<input type="checkbox"/> <b>DF</b>	<input type="checkbox"/> <b>SF</b>	<input type="checkbox"/> <b>SF</b>

**Base Socket**Cat. No.  **G12**  
 **No Option**

Available for 35W, 70W and 150W metal halide T-6 bi-pin lamps. Must use UV filtering lamp.

**Emergency Battery Back-up**Cat. No.  **EM**  
 **No Option**

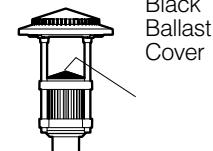
Internal battery pack provides 90 minutes of supplemental light at 750 lumens on 42 watt compact fluorescent lamps only.



Battery Back-up

**StarView™  
Black Ballast Cover**Cat. No.  **BBC**  
 **No Option**

For locations where complete cutoff optical control is desired, Kim's StarView™ optional matte black ballast cover can be specified. This option reduces the indirect uplight distribution for use in areas where light pollution and trespass is a concern and to promote celestial visibility at night.

Black  
Ballast  
Cover




**KIM LIGHTING**
**BNB**
**Bounce Bollard**

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Type:

Job:

Page: 2 of 5

## Specifications

**BNB2 and BNB5**

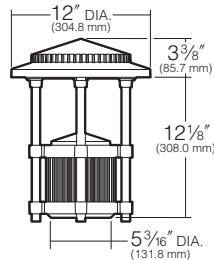
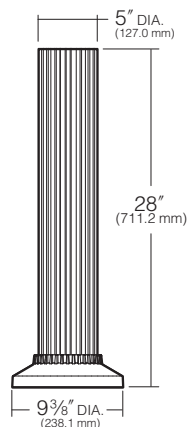
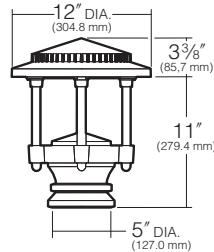
70 to 100 watt PMH

70 to 100 watt HPS

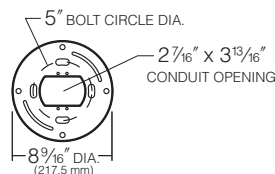
Medium Base Lamps

42 watt Compact Fluorescent

18, 27 or 36 LED

**BNB2**

**BNB5**


Fluted



**Hood and Lens Frame:** Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. 3/16" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

**Body Support: BNB2:** Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB5:** Heavy low copper alloy (<0.6% Cu) cast aluminum wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods.

**Body Cap:** Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

**Shaft:** One-piece fluted aluminum extrusion, .188" minimum wall thickness and two internal 3/16"-16 mounting rods sandwich shaft between base and head.

**Anchor Base Plate:** A heavy cast aluminum anchor base is provided for mounting to the four 3/8" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

**Electrical Module:** Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. **LED:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

**LED Driver:** Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

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

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

**Listings and Ratings**

UL cUL 1598 <sup>1</sup>	IP46 Rated	CE	25C Ambient
(FCO) Full Cutoff <sup>2</sup>			

<sup>1</sup>Suitable for wet locations<sup>2</sup>Dark Sky Legislation Compliant

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**BNB**
**Bounce Bollard**

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Type:

Job:

Page: 3 of 5

## Specifications

**BNB3 and BNB6**

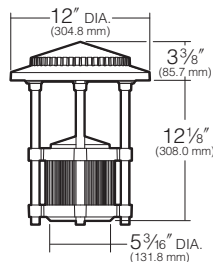
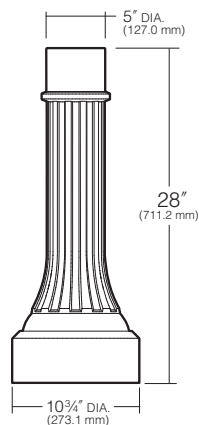
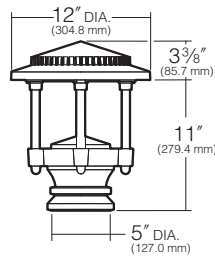
70 to 100 watt PMH

70 to 100 watt HPS

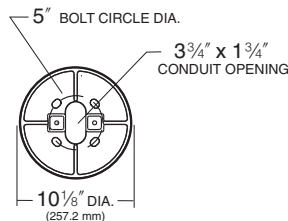
Medium Base Lamps

42 watt Compact Fluorescent

18, 27 or 36 LED

**BNB3**

**BNB6**


Traditional



HUBBELL LIGHTING, INC.

**Hood and Lens Frame:** Die-cast, low copper (<0.6% Cu) aluminum alloy with stainless steel hinge. Hood is opened by loosening one stainless steel captive button-head socket cap screw. 3/16" thick clear flat tempered glass lens seals against the lens frame by a one-piece molded silicone gasket. Lens frame seals against the hood by a one-piece extruded and vulcanized silicone gasket.

**Reflector Module:** Specular Alzak® optical segments are rigidly mounted within an aluminum frame and fastened securely to the hood. A porcelain medium base socket rated 4KV is provided for HID, and a GX24q-4 universal socket is provided for fluorescent. No reflector provided for LED.

**Body Support: BNB3:** Die-cast, low copper (<0.6% Cu) aluminum alloy flanges compress a ribbed extruded aluminum chamber. The four heavy wall extruded aluminum support rods are mechanically fastened to the lens frame with stainless steel fasteners. The support rods are held in position through die-cast arms and mechanically fastened at the bottom with a custom aluminum bolt. The electrical wiring is channeled through a support rod with a brass bushing. **BNB6:** Heavy low copper alloy (<0.6% Cu) cast aluminum wiring chamber. The four extruded aluminum support rods are mechanically fastened between the lens frame and wiring chamber with stainless steel bolts. The wiring is channeled through the support rods.

**Body Cap:** Die-cast, low copper (<0.6% Cu) aluminum, retained by two captive stainless steel screws. Optional matte black finish to eliminate bounce light. See page 5.

**Shaft:** One-piece cast aluminum .188" minimum wall thickness and two internal 3/8"-16 mounting rods sandwich shaft between base and head.

**Anchor Base Plate:** A heavy cast aluminum anchor base is provided for mounting to the four 3/8" x 10" + 2" zinc plated J-bolts, each with two nuts and washers. A rigid pressed board template is provided to secure the anchor bolts during concrete pour (5" B.C.D.)

**Electrical Module:** Factory mounted to a rigid harness attached to the anchor base. **HID:** High Power Factor with starting temperatures of -20°F for PMH and -40°F for HPS lamp modes. **Fluorescent:** High Power Factor with starting temperature of 0°F. **LED:** A total of 9 LED emitters configured in a rectangular array comprised together as a module. Two (2) modules for 18 LED version; three (3) modules for 27 LED version; and four (4) modules for 36 LED version. Available in 3500K and 5100K.

**LED Driver:** Rated for 18 LED, 27 LED or 36 LED. Universal voltage from 120 to 277V with a ±10% tolerance. -40°F starting temperature. All drivers are Underwriters Laboratories recognized.

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

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

**Listings and Ratings**

UL cUL 1598 <sup>†</sup>	IP46 Rated	CE	25C Ambient
(FCO) Full Cutoff <sup>‡</sup>			

<sup>†</sup>Suitable for wet locations

<sup>‡</sup>Dark Sky Legislation Compliant

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**Job Name:**  
The Place Storage

**Catalog Number:**  
BNB1-36LED-3K-VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**D-LED**

LEC-STL14-41792



**BNB**  
Bounce Bollard  
revision 5/31/11 • bnb.pdf

**Type:**

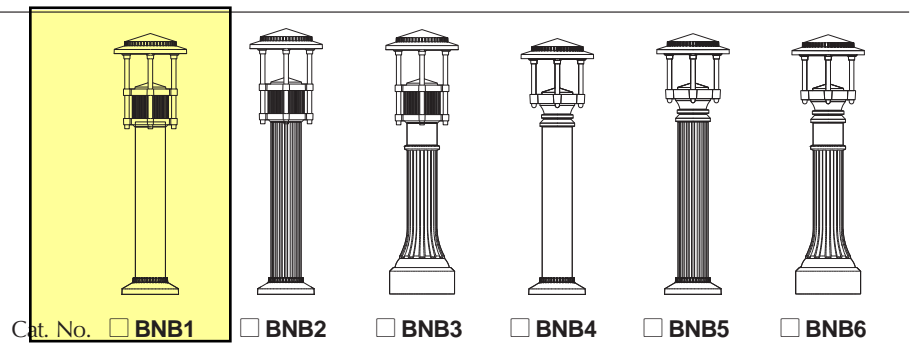
**Job:**

**Page: 4 of 5**



## Standard Features

**Fixture**



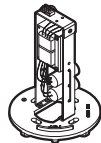
Cat. No.  **BNB1**    BNB2    BNB3    BNB4    BNB5    BNB6

**Electrical Module**

- PMH** = Pulse Start Metal Halide
- HPS** = High Pressure Sodium
- PL** = Compact Fluorescent
- LED** = Light Emitting Diode

Lamp Watts	Lamp Type	Line Volts
70	PMH	120

For PMH, HPS and PL.  
See footnote 2 below for LED



**NOTE:** For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

	Pulse Start Metal Halide		High Pressure Sodium	
	<input type="checkbox"/> 70PMH120	<input type="checkbox"/> 100PMH120	<input type="checkbox"/> 70HPS120	<input type="checkbox"/> 100HPS120
	<input type="checkbox"/> 70PMH208	<input type="checkbox"/> 100PMH208	<input type="checkbox"/> 70HPS208	<input type="checkbox"/> 100HPS208
	<input type="checkbox"/> 70PMH240	<input type="checkbox"/> 100PMH240	<input type="checkbox"/> 70HPS240	<input type="checkbox"/> 100HPS240
	<input type="checkbox"/> 70PMH277	<input type="checkbox"/> 100PMH277	<input type="checkbox"/> 70HPS277	<input type="checkbox"/> 100HPS277
	<input type="checkbox"/> 70PMH347	<input type="checkbox"/> 100PMH347	<input type="checkbox"/> 70HPS347	<input type="checkbox"/> 100HPS347
Lamp	ED-17, Coated	ED-17, Coated	ED-17, Coated	ED-17, Coated
Socket	Medium Base	Medium Base	Medium Base	Medium Base
ANSI Ballast Type	M-98, M-143	M-90, M-140	S62	S54
	Compact Fluor.	LED		
	<input type="checkbox"/> 42PL120 <sup>1</sup>	<input type="checkbox"/> 18L3KUV <sup>2</sup>	<input type="checkbox"/> 27L3KUV <sup>2</sup>	<input checked="" type="checkbox"/> 36L3KUV <sup>2</sup>
	<input type="checkbox"/> 42PL208 <sup>1</sup>	<input type="checkbox"/> 18L5KUV <sup>2</sup>	<input type="checkbox"/> 27L5KUV <sup>2</sup>	<input type="checkbox"/> 36L5KUV <sup>2</sup>
	<input type="checkbox"/> 42PL240 <sup>1</sup>			
	<input type="checkbox"/> 42PL277 <sup>1</sup>	IES Type 1	IES Type 3	IES Type 5
Lamp	Compact Fluor.	LED	LED	LED
Socket	GX24q-4	N/A	N/A	N/A

<sup>1</sup>42PL operates one 26, 32, or 42 watt lamp at 120 thru 277 volts (50-60 Hz).

**NOTE:** Coated lamps are recommended.

<sup>2</sup>For LED, 18L = 18 LED Emitters; 27L = 27 LED Emitters; 36L = 36 LED Emitters; 3K = 3500K color temperature; 5K = 5100K color temperature; UV = Universal Voltage from 120 to 277V with a ± 10% tolerance.

**SPECIFY COLOR**

**Luminaire Finish**

Super TGIC powder coat paint over a titanated zirconium conversion coating on fixture and shaft.

Color: Black   Dark Bronze   Light Gray   Stealth Gray™   Platinum Silver   White   Custom Color<sup>3</sup>  
 Cat. No.:  BL    DB    LG    SG    PS    WH    CC

<sup>3</sup>Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: \_\_\_\_\_



**Job Name:**  
The Place Storage

**Catalog Number:**  
BNB1-36LED-3K-VOLTAGE/  
STANDARD COLOR

Notes:

**Type:**

**D-LED**

LEC-STL14-41792



**KIM LIGHTING**

**BNB**

Bounce Bollard

revision 5/31/11 • bnb.pdf

**Type:**

**Job:**

**Page: 5 of 5**



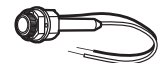
## Optional Features

### Fusing (internal only):

Cat. No. **(see chart at right)**  
 No Option

High temperature fuse holders factory installed inside the fixture housing. Fuse is included.

Line Volts: 120V 208V 240V 277V 347V  
Cat. No.:  SF  DF  DF  SF  SF

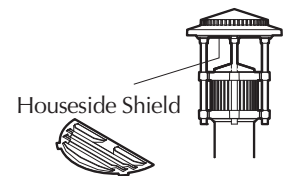


Single Fuse

### Houseside Shield

Cat. No.  HS  
 No Option

Optional shield made of stamped louered aluminum allows streetside light to pass while blocking houseside light. Blackened reflector panels within the reflector also reduces the houseside reflection.



Houseside Shield

### Matte Black Body Cap:

Cat. No.  BBC  
 No Option

For locations where complete cutoff optical control is desired, an Optional Matte Black Body Cap can be specified. This significantly reduces the indirect up-light distribution, providing complete cutoff. To further reduce the nighttime visual presence of the fixture, specify Black or Dark Bronze luminaire finish.



Optional Cap

### Textured Glass Lens

Cat. No.  TG  
 No Option

Unique textured glass reduces LED glare and improves visual comfort.

### Emergency Battery Back-up

Cat. No.  EM  
 No Option

Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps.



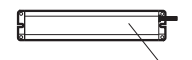
Battery Back-up

### Cold-Pack Emergency Battery Pack

Cat. No.  EM-CP  
 No Option

The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of hi/low ambient temperatures, -20°C to +55°C.

Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps.



cold-pack  
battery back-up

Lamp (4-Pin)	1 lamp lumens
42W	750
32W	575
26W	450