



III. B.

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Architectural Review Board Staff Report

Project Type:	Site Development Section Plan
Meeting Date:	October 11, 2012
From:	Justin Wyse, AICP Senior Planner
Location:	Chesterfield Parkway W and Swingley Ridge Road
Applicant:	RGA Reinsurance Company
Description:	<u>Chesterfield Village NW Quadrant, Parcel III, Bldg. Group B (RGA) SDSP:</u> A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a 17.2 acre tract of land zoned "C-8" Planned Commercial District located on the north side of Chesterfield Parkway W, west of Swingley Ridge Road.

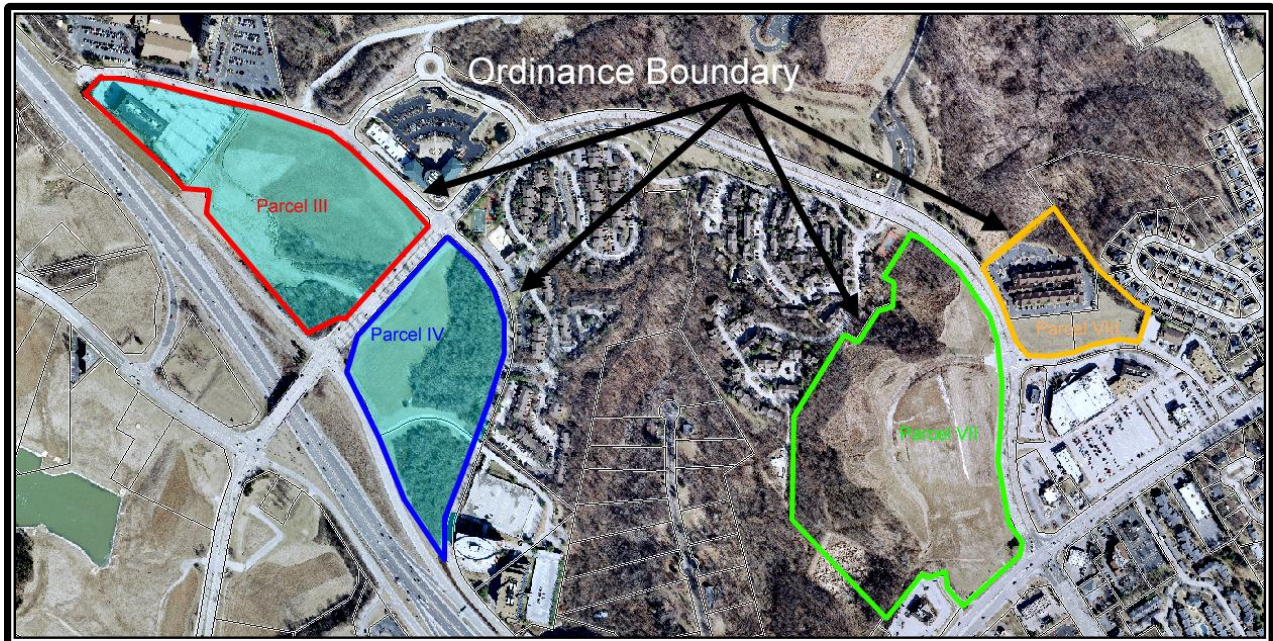
PROPOSAL SUMMARY

The request is for two 5-story office buildings linked by a 2-story lobby and amenity bar (totaling 405,000 square feet) and a 3-level parking garage located on the northwest side of the Chesterfield Parkway W and Swingley Ridge Road intersection. The subject site is zoned "C-8" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2723. The exterior building materials will be primarily comprised of aluminum curtain wall with high performance vision and fritted glass, natural stone (limestone) panels, aluminum curtain walls with clear glass, and a metal and glass entry canopy. The main buildings will have fully-adhered elastomeric membrane roofing and the lobby will include green roof trays.

HISTORY OF SUBJECT SITE

In 1979, Chesterfield Village Inc. submitted five petitions covering a total of 197.8 acres in the northwest quadrant. Two general areas of "C-8" zoning were proposed, one along the north side of Highway 40 (including the subject site) and the other surrounding the existing Hilltown Center. The 43.3 acres along Highway 40 would include 1,000,000 square feet of floor area being primarily offices, a hotel, theater, professional laboratories and schools.

In 1997, the City of Chesterfield approved two additional amendments to this "C8" Planned Commercial District to modify the permitted land uses and allow additional flexibility in the density requirements and the City of Chesterfield approved a Commercial-Industrial Design Development (CIDD) procedure in 2012 to permit additional shifting of density within the development. Finally, the City of Chesterfield approved Ordinance 2723 which modified building groups, building heights, and density requirements for the development.



STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

Addressed As Written *Addressed with Modification* *Not Applicable*

The subject site sits between the existing Dierbergs office building (north), City Hall (east), Chesterfield Parkway W (south) and I-64 (west). The proposed building design attempts to gesture towards the intersection of Chesterfield Parkway W and Swingley Ridge Road to provide visibility and increase the sense of place at the intersection.

B. Circulation System and Access

Addressed As Written *Addressed with Modification* *Not Applicable*

Primary access to the site is proposed off Swingley Ridge Road with a right-in, right-out only access onto Chesterfield Parkway W. A landscaped arrival plaza is proposed off the first entrance off Swingley Ridge Road to provide a clear arrival point for visitors to the building. The second entrance off Swingley Ridge Road will access the proposed parking structure and service area. An onsite path is proposed to provide employees with opportunities to connect to the public pedestrian system (sidewalks along Swingley Ridge Road and Pathway on the Parkway).

C. Topography

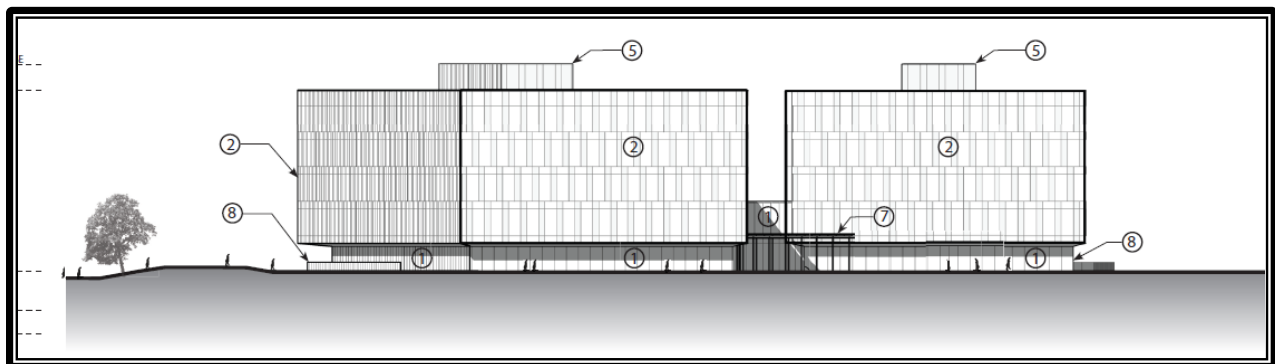
Addressed As Written *Addressed with Modification* *Not Applicable*

The design attempts to integrate the existing landscape into the proposal to minimize the development impacts. The design incorporates the existing 70 feet of elevation change by locating two of the parking levels below grade. Finally, a berm is proposed between the building and the interstate to impede noise from the Interstate.

D. Retaining Walls

Addressed As Written *Addressed with Modification* *Not Applicable*

As discussed above, the site design incorporates the structures into the existing landscape to minimize the need for screening and retaining walls. A gabion stone wall is proposed along the walking path and attempts to provide a natural setting and further the design of the site.



General Requirements for Building Design:

A. Scale

Addressed As Written *Addressed with Modification* *Not Applicable*

The proposed office buildings are located between the existing Dierbergs office building and City Hall with frontage on I-64, Chesterfield Parkway, and Swingley Ridge Road. To provide human scale to the design, the building design sets back at ground level.

B. Design

Addressed As Written *Addressed with Modification* *Not Applicable*

The design uses highly efficient and technologically advanced work bars to represent global expertise and ties in local stone (limestone) to make the local connection in the building design. The amenity bar for the site (connecting the two buildings) is proposed to be worked into the existing hillside, with the works bar cantilevering out over the amenity bar.

C. Materials and Color

Addressed As Written *Addressed with Modification* *Not Applicable*

The chosen materials seek to be sustainable and provide expansive views and natural light in the building. Aluminum curtain walls with high performance vision and fritted glass, natural stone (limestone) panels, aluminum curtain walls with clear glass, and a metal and glass entry canopy are proposed to accomplish this goal.

D. Landscape Design and Screening

Addressed As Written *Addressed with Modification* *Not Applicable*

A plaza is designed to soften the primary arrival point for visitors to the site and a 'backyard' of regional landscape, woodland, prairie and agrarian typologies is proposed. Landscaping is provided along the perimeter of the site, similar to adjacent developments. Move heavily landscaped areas are proposed along the frontage of Chesterfield Parkway. Additional landscaping is proposed in various locations to enhance bio-retention areas.

E. Signage

Addressed As Written *Addressed with Modification* *Not Applicable*

Signage is not included at this time. Signage will be submitted in the future for separate review.

F. Lighting

Addressed As Written *Addressed with Modification* *Not Applicable*

Site lighting is proposed for walkways and parking fields to assure security and safe travel while on the site and not contribute to light pollution. Architectural lighting is included on the building to enhance and accentuate building features such as the cantilevers and walkways.

Use Type: Commercial and Industrial Architecture

Access: Two entrances are proposed along Swingley Ridge Road. The first entrance will generally provide access to visitors to the site. The second entrance will be move heavily used by employees and access to service areas.

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

Landscaping and Screening: Addressed above in *Landscape Design and Screening*.

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

Site Design: The proposal seeks to maximize the utilization of the 'amenity bar' by creating indoor and outdoor spaces for the employees and visitors to utilize. Additionally, a private path system that connects to the public system is proposed.

DEPARTMENT INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design. An initial comment letter has been sent to the applicant regarding Staff issues. Action is requested on the Site Development Section Plan for Chesterfield Village, Parcel III, Building Group B (RGA).

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 Chesterfield Village, Parcel III, Building Group B (RGA), 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, and Architectural Elevations for Chesterfield Village, Parcel III, Building Group B (RGA), 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 : RGA Global Headquarters Location: Chesterfield, MO

Developer : Clayco Architect : Gensler - Chicago Engineer : Uzun & Case (Structural)

PROJECT STATISTICS:

Size of site (in acres): 48-2 17.042 Total Square Footage: 405,000sf Building Height: 71'-3" (T/O ROOF)
85'-3" (T/O PENTHOUSE)

Proposed Usage : Office Headquarters

Exterior Building Materials: Limestone & High-performance glazing

Roof Material & Design: Fully-adhered elastomeric membrane (main buildings). Green roof trays (lobby roof).

Screening Material & Design: Curtain walls & rain screen facades

Description of art or architecturally significant features (if any): 40-foot building cantilevers

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.



REINSURANCE GROUP OF AMERICA HEADQUARTERS, INC.

Architectural Design Statement

Gensler

Designed by the global design firm, Gensler, the global headquarters for Reinsurance Group of America, Inc. will be an interactive and connective workplace that will accommodate the needs for flexibility and growth appropriate to a Fortune 500 company. Set on a natural site in Chesterfield, MO, the linked two-building campus will provide office and amenity programs that will enable appropriate solutions for RGA's different working styles and needs for future development. The proposed development comprises two 5-story office work bars linked by a two story lobby\amenity space totaling 405,000 square feet of GFA. The offices line a buried two-story parking structure with a landscaped and parkable top deck.

GENERAL REQUIREMENTS FOR SITE DESIGN

- **Site Relationships:** The project is set on a 17.2 acre site across from the Dierberg's building to the northwest and City Hall to the northeast. Located directly across Swingley Ridge Rd from City Hall, the buildings gesture towards the corner of Swingley Ridge Rd and Chesterfield Parkway with the intent of creating visibility and a sense of place at that node.
- **Circulation System and Access:** The site is accessed primarily by two entrances off of Swingley Ridge Road. Traveling westbound along Swingley Ridge Road, the first entrance consists of a formal landscaped arrival plaza that provides clear and easily understood access and circulation for visitors, staff, service, and emergency vehicles. The second employee and service vehicle entrance ramps down and provides access to both levels of parking and the loading dock and service parking. An additional right-in/right-out entrance provides an access road connecting Chesterfield Parkway and the first level of buried parking.
- **Topography:** The buildings are integrated into the landscape in a sensitive manner that minimizes the impact of the development on local ecosystems. The site has a total elevation change of 70' from the highest point on the site and the lowest with the downward slope moving from east to west. The building footprint is separated from the I-40/64 on ramp by a berm which blocks some of the highway noise from the site.
- **Retaining Walls:** The buildings work with the natural slope of the landscape to minimize the need for screening and retaining walls. Instead, by burying part of the program, the site walls enclose programmed space with architectural materials of stone and glass.
- **Storage:** There is no permanent on-site storage of goods or equipment for sale or service.
- **Utilities:** All utilities will be buried underground.
- **Parking:** The parking and loading dock areas are located in an attached 3 level parking structure containing 1,312 spaces and consisting of 2 levels of below-grade employee parking, a double height loading area, and a landscaped top deck for guest and employee parking.

GENERAL REQUIREMENTS FOR BUILDING DESIGN

- **Scale:** The scale of the 5-story buildings is compatible with the scale of the context created by the 3-story City Hall and by the 4-story Dierbergs Markets buildings. The building sets back at the ground level to create a walkway appropriate to human scale.
- **Design:** The parti of the building is one that expresses a notion of the global expertise of RGA meeting its experience in local markets. The highly efficient and technologically advanced work bars represent the global expertise, and the local material clad and ecologically sensitive amenity bar represents the local experience. A dramatic 40' cantilever is created by the interface of the global and the local. By nesting the amenity bar in the hillside the western face of the amenity bar is exposed as grade slopes down to the site's lowest point. The work bars, with its entry point set even with the top of the parking deck, cantilevers out and over the amenity bar.
- **Materials & Colors:** The materiality of the project is dictated by the desire of the project to be highly sustainable while providing expansive views and exposure to natural light. The glass of the work bars is high performance insulated glass arrayed in an A-B pattern that alternates between gray tinted vision glass and gray tinted fritted glass. The cladding of the amenity bar is locally sourced stone with warm tones to emphasize the notion that the amenity bar is a stone plinth on which the work bars rest.
- **Landscape Design & Screening:** The arrangement of the buildings on the site provides a main entrance off of Swingley Ridge Road consisting of a formal landscaped arrival plaza and a "backyard" of regional landscape woodland, prairie and agrarian typologies. A path network provides employees access out and around the campus in a safe and convenient way. Cafe and fitness program in the amenity bar provide people with places to connect, interact, dine and work in indoor and outdoor locations.
- **Lighting:** Site lighting will provide illumination to the walkways and guest parking and is deployed in a sensitive manner that assures security and safe travel while not contributing to light pollution. Building lighting is included that will accentuate building features such as the cantilevers and general walkway areas.
- **Facades & Exterior Elements:** The buildings are arranged in a manner that takes advantage of solar orientation, maximizes views of the surrounding landscape and provides safe pedestrian movement between program elements. The work bars are oriented in such a way that the longest building faces have a favorable southern exposure and the shortest faces have the less favorable eastern/western exposures and features an environmentally responsive envelope consisting of high-performance glazing. The lower level amenity bar elevations integrate passive shading strategies into the design to reduce solar radiation.

The result is a forward-looking development that expresses strength and global expertise by utilizing clean, minimal detailing and honest expressions of program, form and material to create an architectural language of simplicity, economy and efficiency.



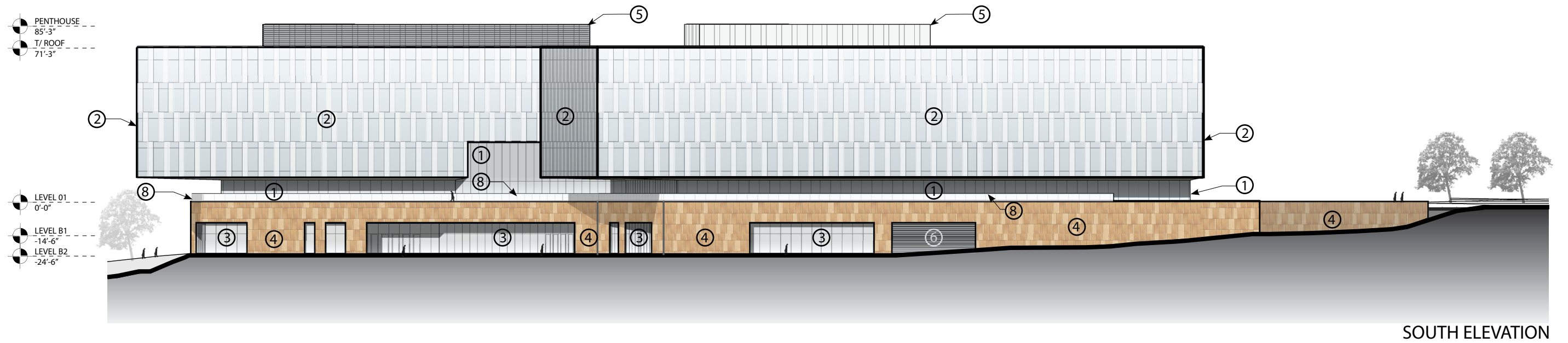


Bird's Eye View
EXTERIOR RENDERING

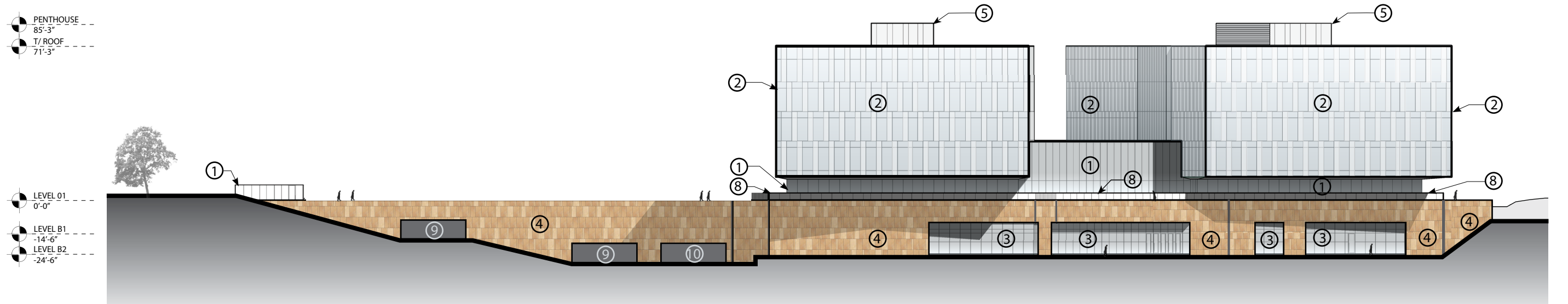
October 11, 2012

Gensler
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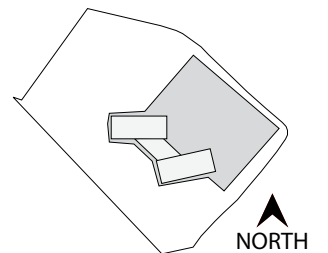
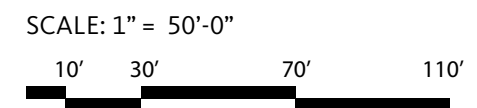
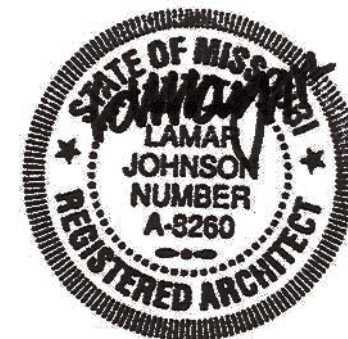
SOUTH ELEVATION

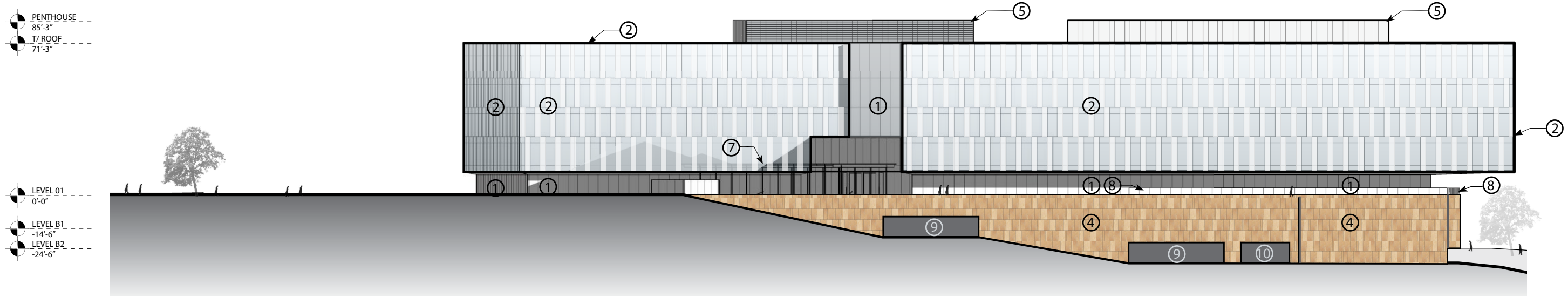


WEST ELEVATION

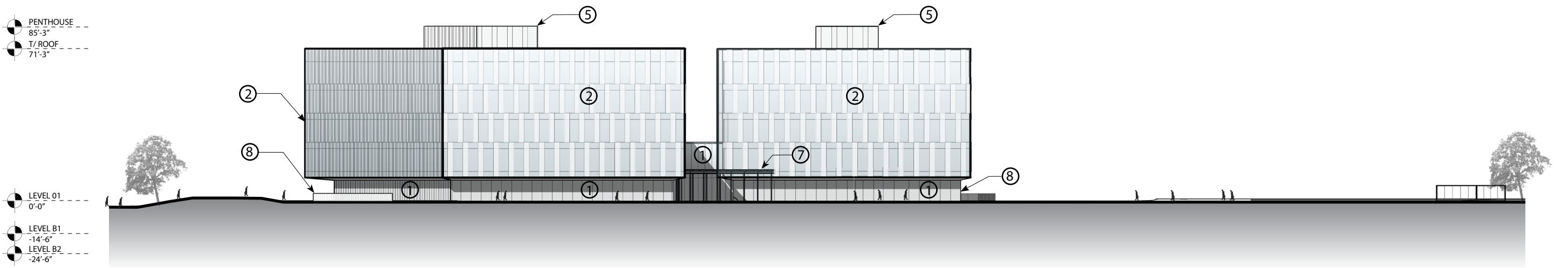
KEYNOTES

- | | | |
|--|----------------------------------|----------------|
| ① ALUMINUM CURTAINWALL WITH CLEAR GLASS | ⑤ ARCHITECTURAL SCREEN WALL | ⑨ GARAGE ENTRY |
| ② ALUMINUM CURTAIN WALL WITH HIGH-PERFORMANCE VISION & FRITTED GLASS | ⑥ ARCHITECTURAL ALUMINUM LOUVERS | ⑩ LOADING DOCK |
| ③ ALUMINUM CURTAIN WALL WITH HIGH-PERFORMANCE GLASS | ⑦ METAL AND GLASS ENTRY CANOPY | |
| ④ NATURAL STONE PANELS | ⑧ GUARD RAIL | |





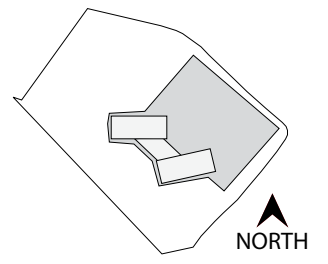
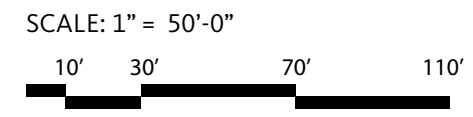
NORTH ELEVATION



EAST ELEVATION

KEYNOTES

- | | | |
|--|----------------------------------|----------------|
| ① ALUMINUM CURTAINWALL WITH CLEAR GLASS | ⑤ ARCHITECTURAL SCREEN WALL | ⑨ GARAGE ENTRY |
| ② ALUMINUM CURTAIN WALL WITH HIGH-PERFORMANCE VISION & FRITTED GLASS | ⑥ ARCHITECTURAL ALUMINUM LOUVERS | ⑩ LOADING DOCK |
| ③ ALUMINUM CURTAIN WALL WITH HIGH-PERFORMANCE GLASS | ⑦ METAL AND GLASS ENTRY CANOPY | |
| ④ NATURAL STONE PANELS | ⑧ GUARD RAIL | |





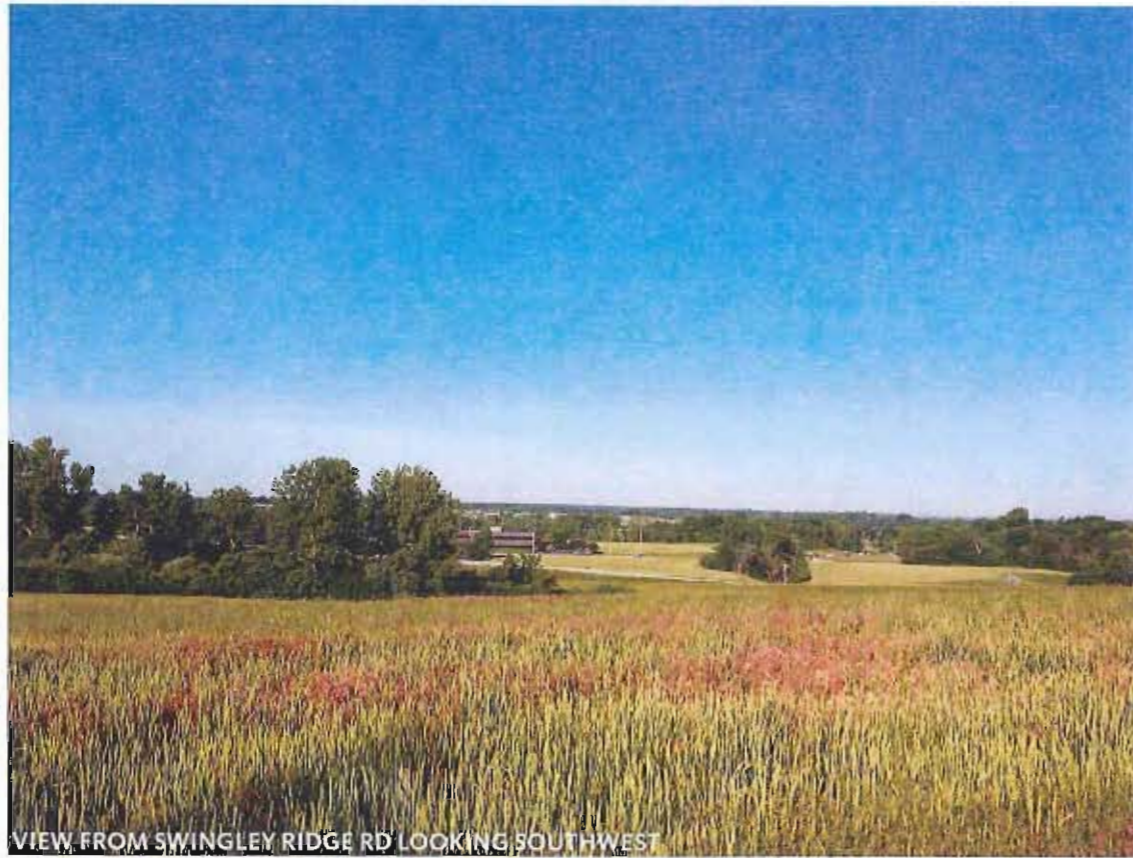
View from Highway
EXTERIOR RENDERING

October 11, 2012



View from Entry
EXTERIOR RENDERING

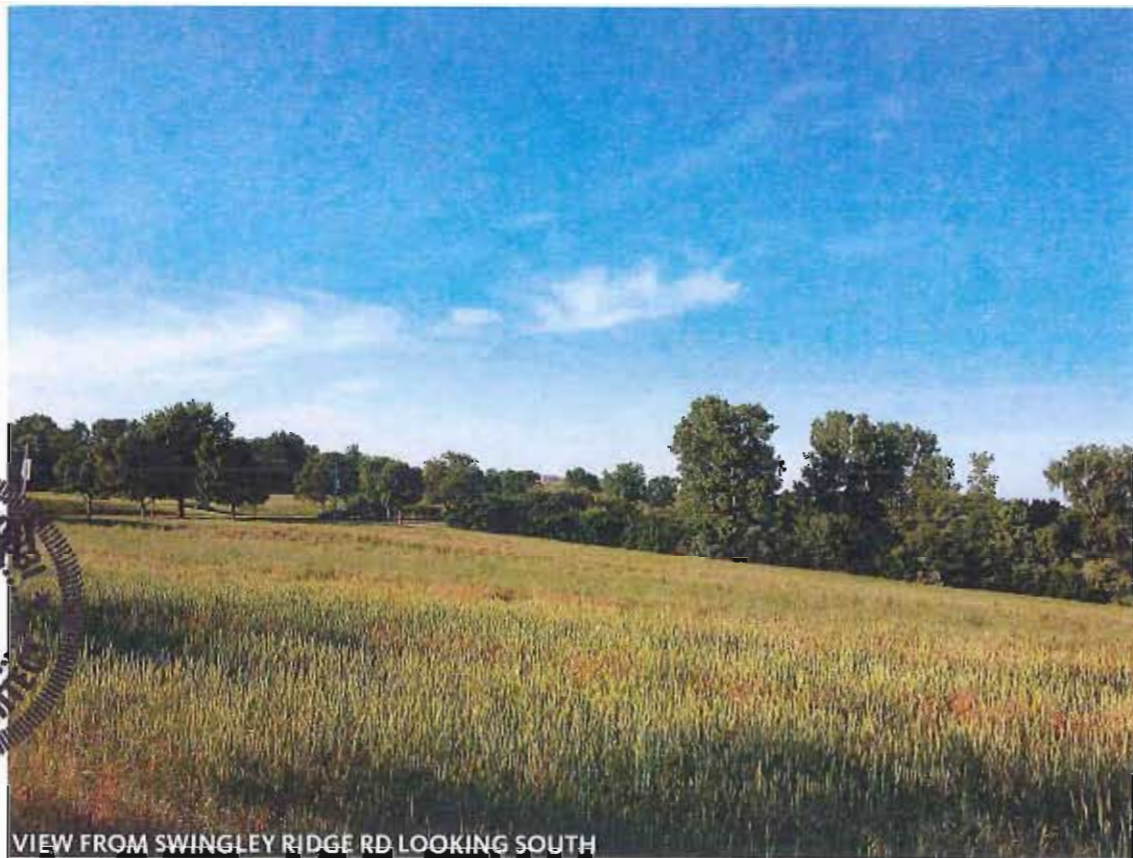




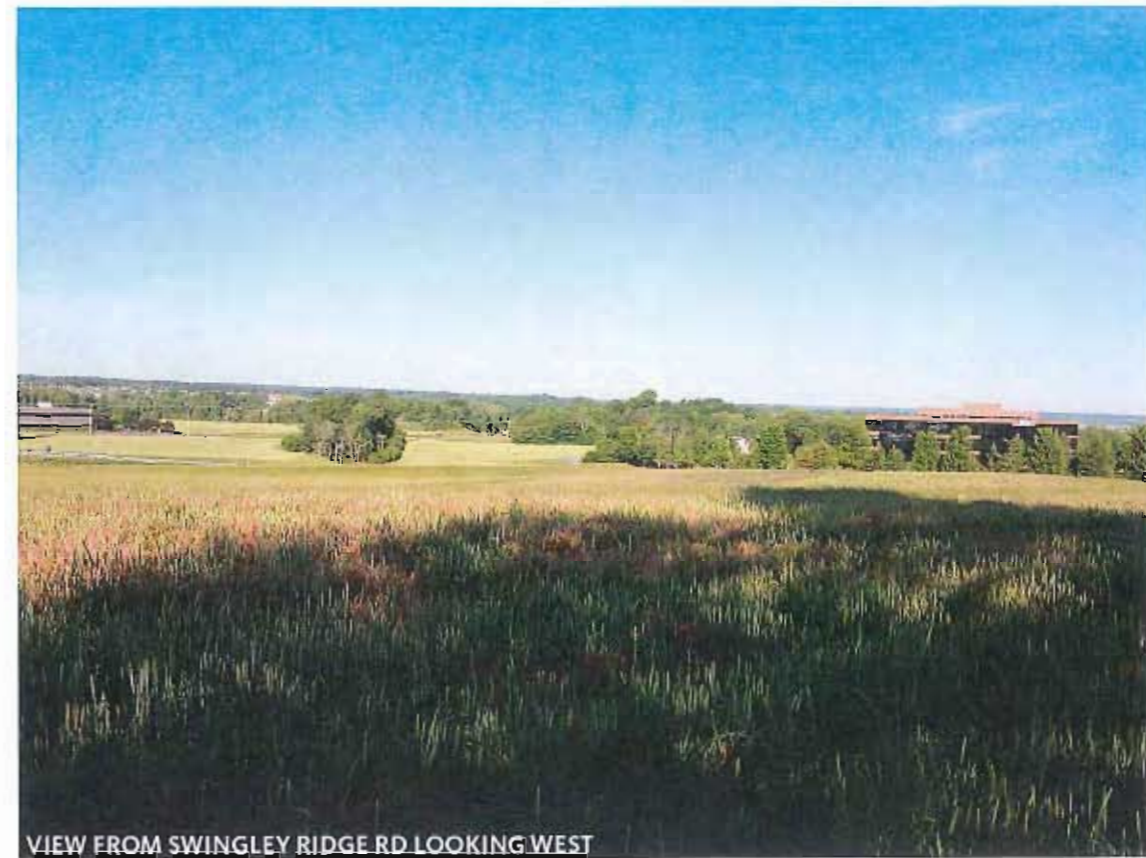
VIEW FROM SWINGLEY RIDGE RD LOOKING SOUTHWEST



VIEW FROM SWINGLEY RIDGE RD LOOKING NORTHWEST



VIEW FROM SWINGLEY RIDGE RD LOOKING SOUTH



VIEW FROM SWINGLEY RIDGE RD LOOKING WEST





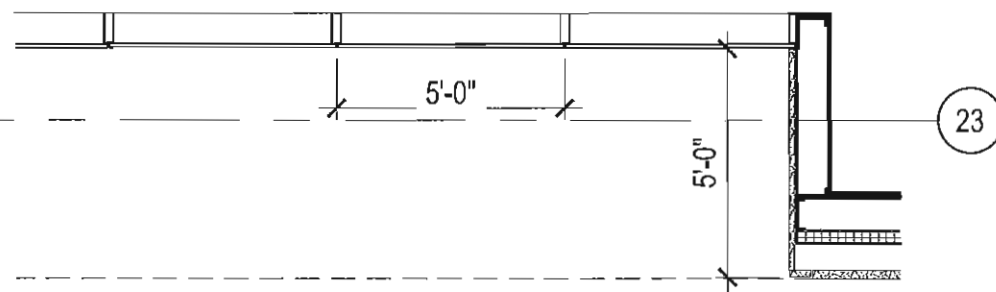
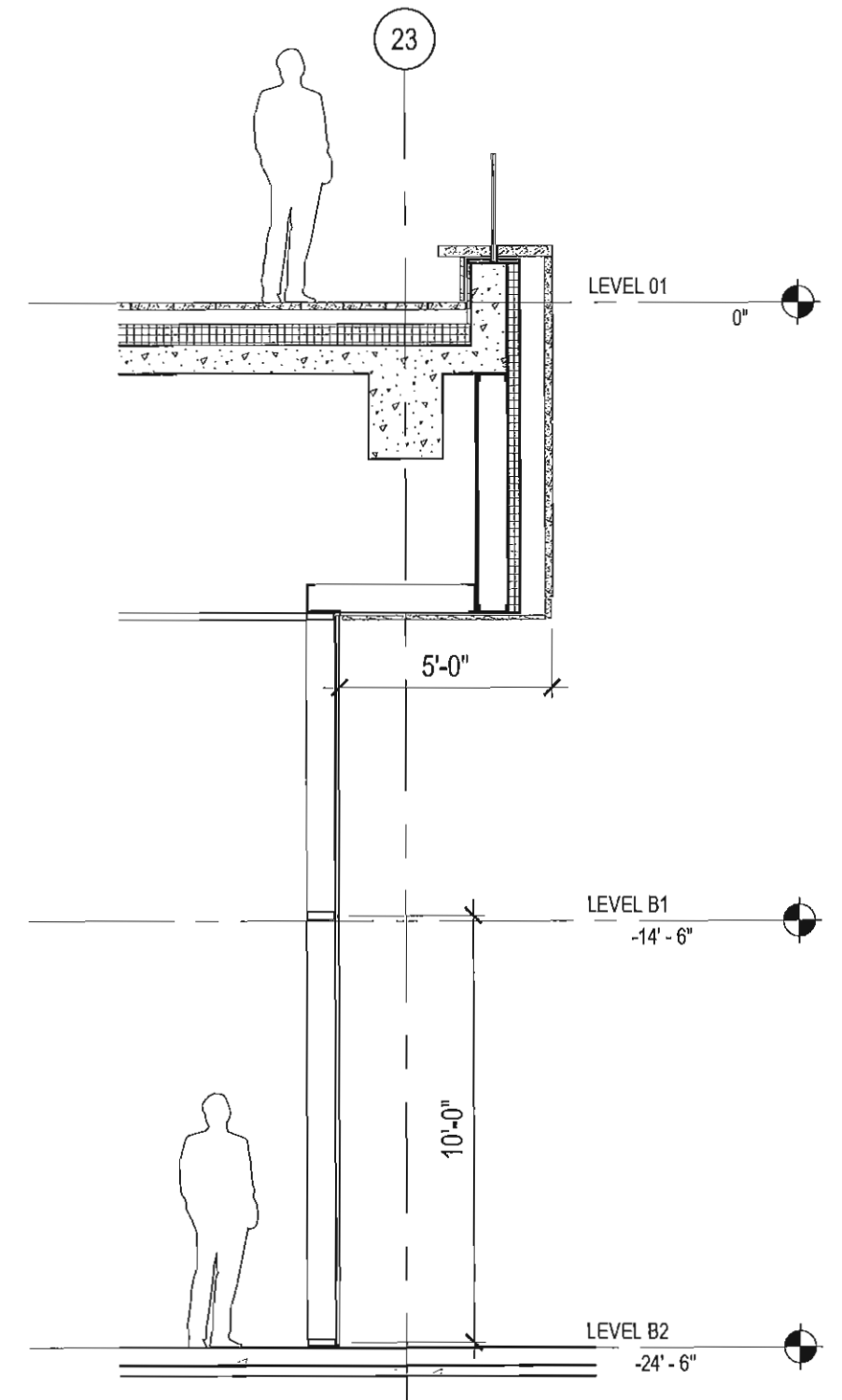
Public Art
 Proposed locations for new public art

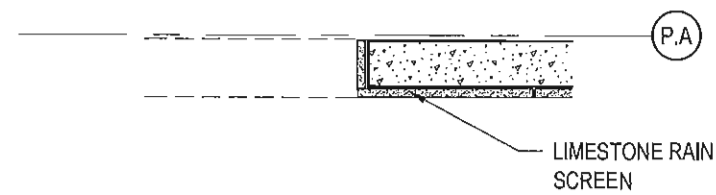
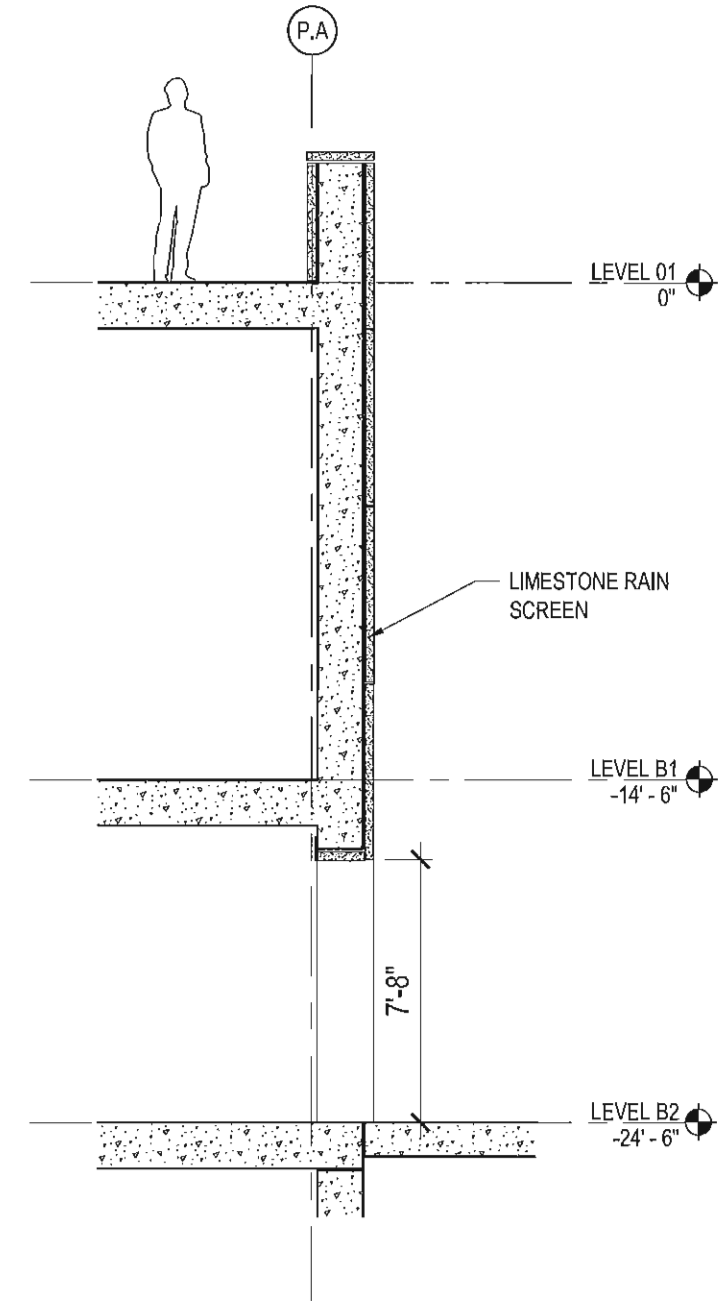
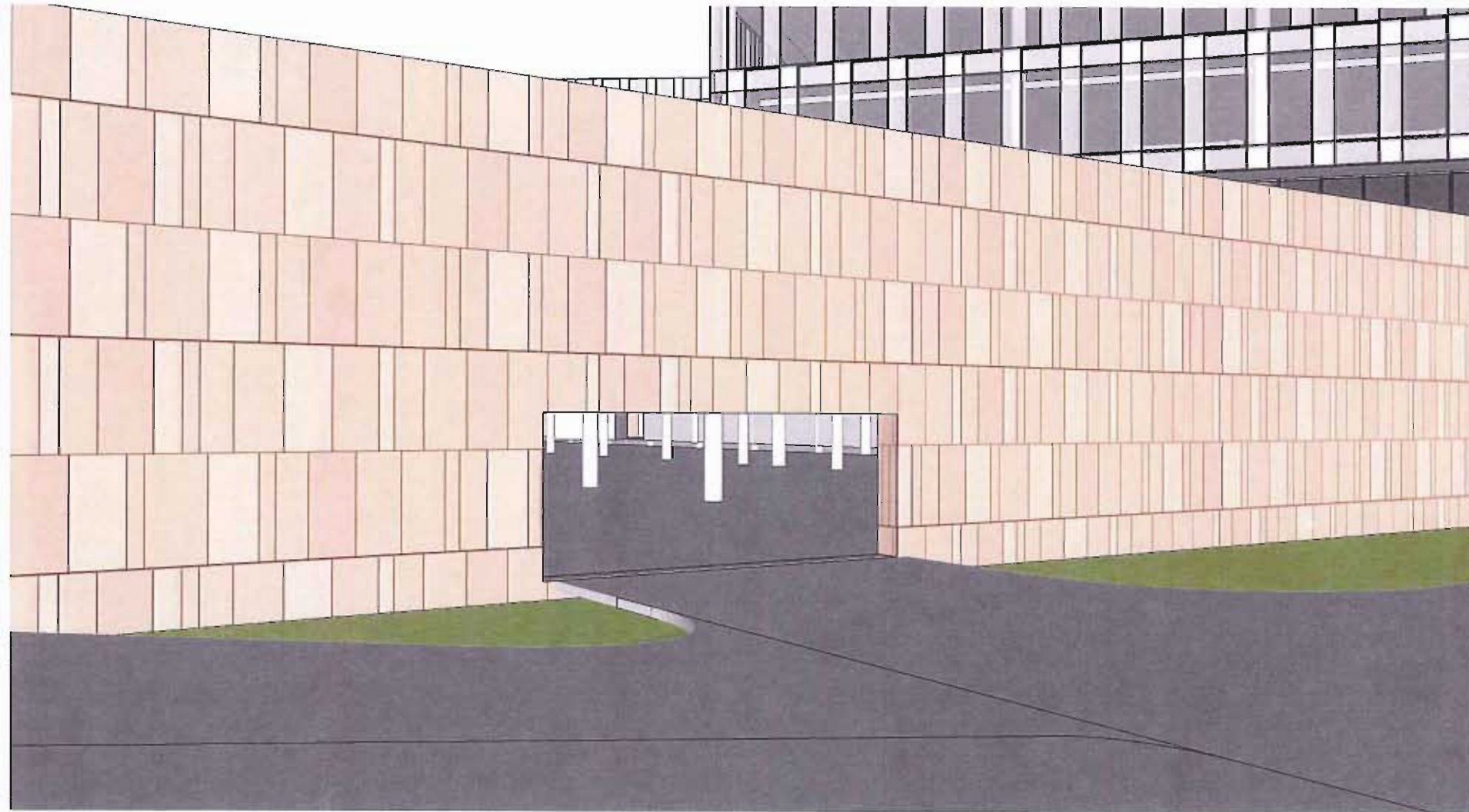
Adjacent Uses and Sites
 ARCHITECTURAL CONTEXT

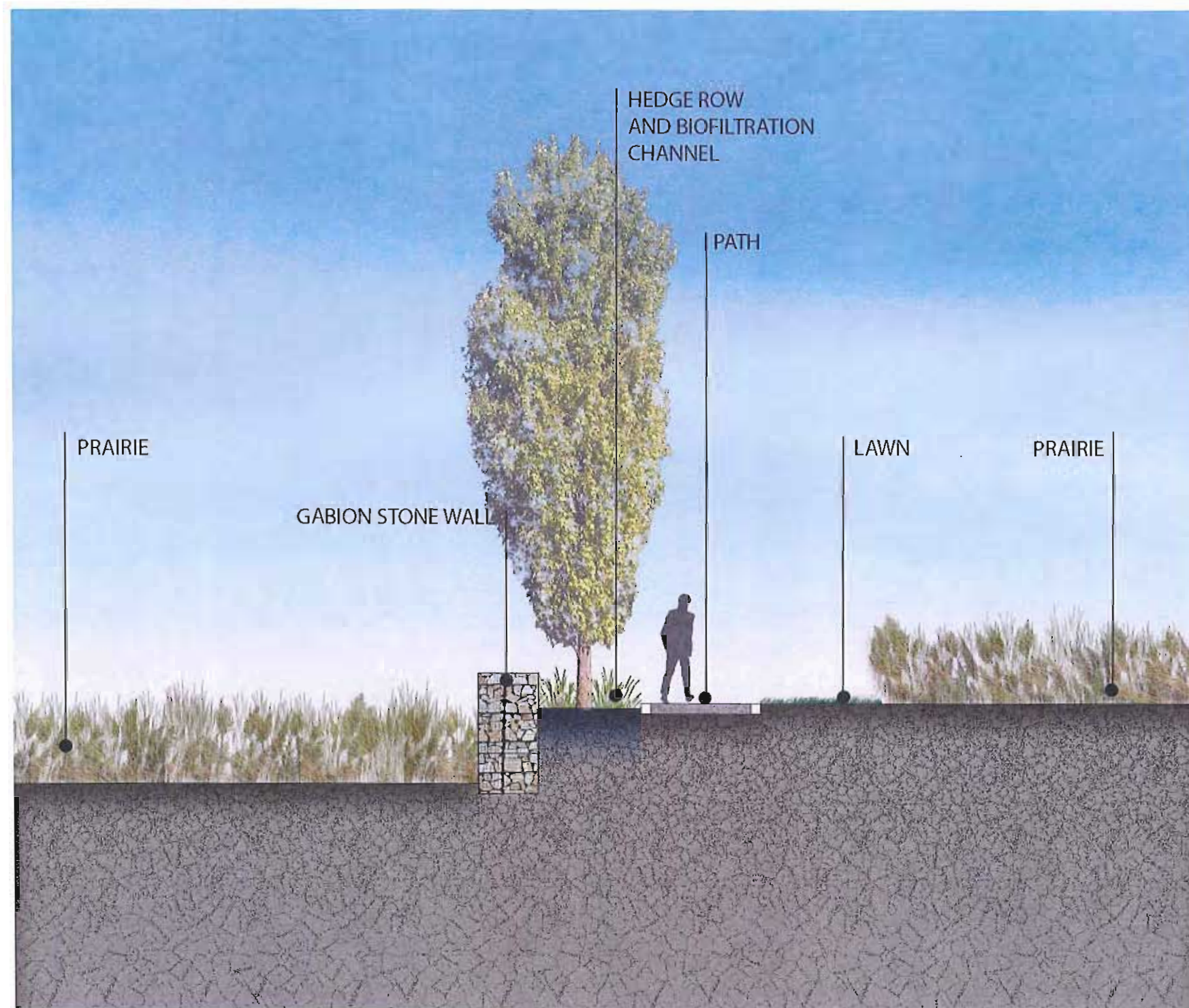
October 11, 2012

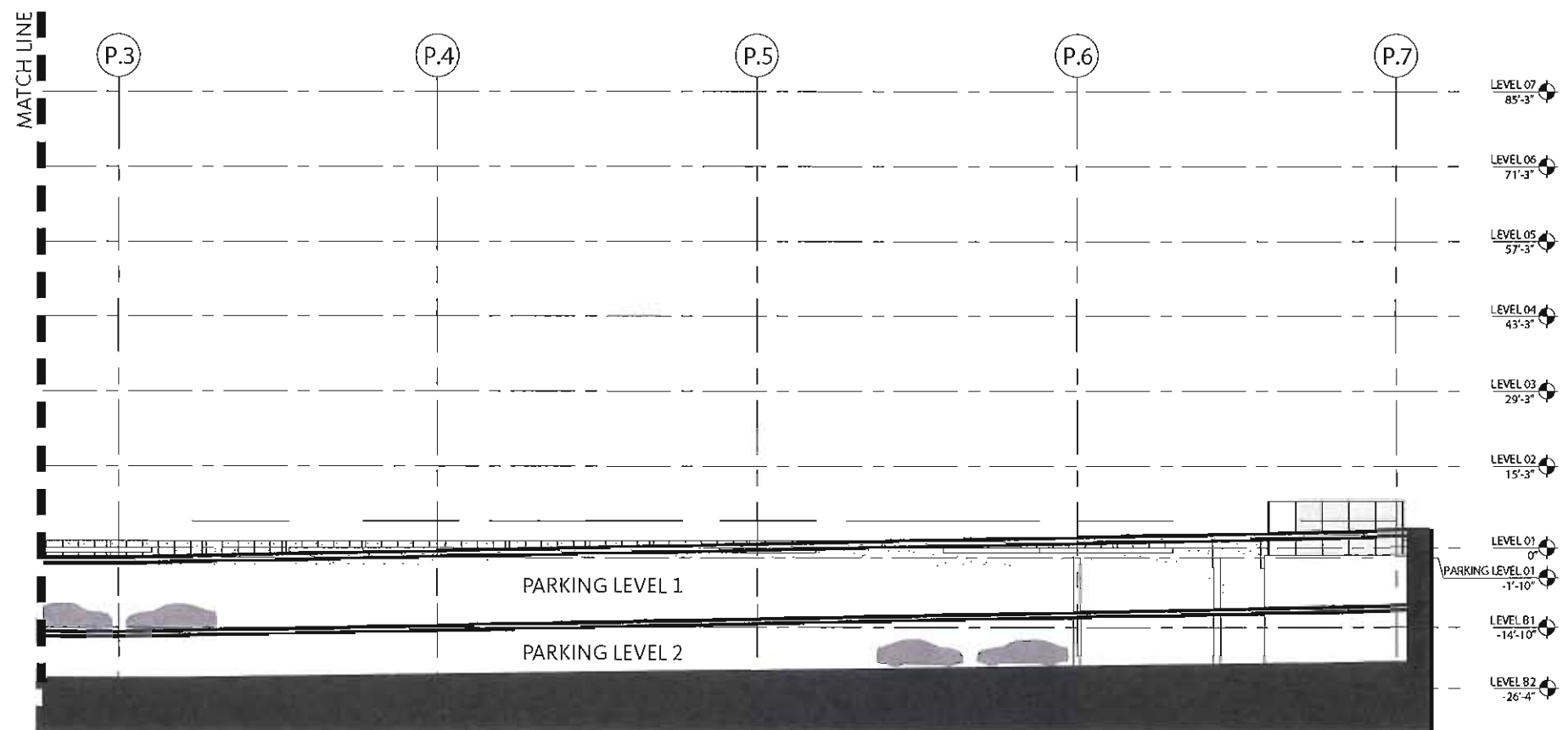
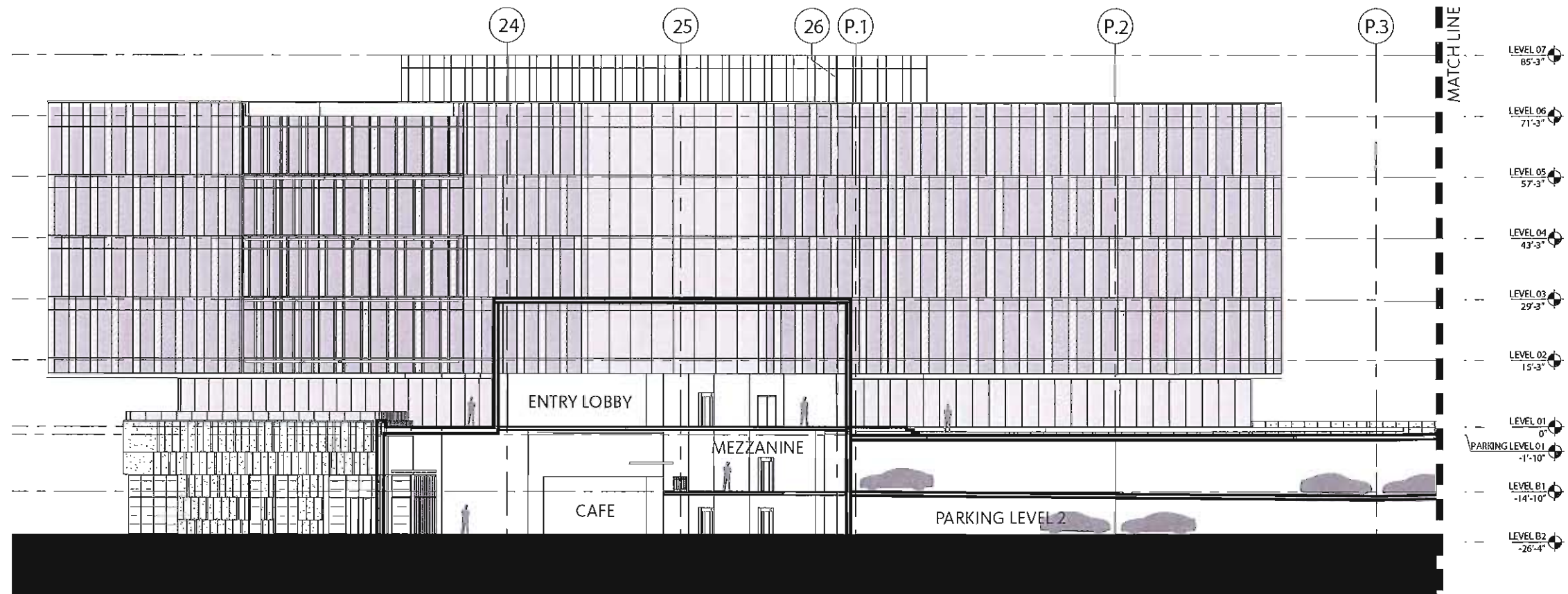
Gensler
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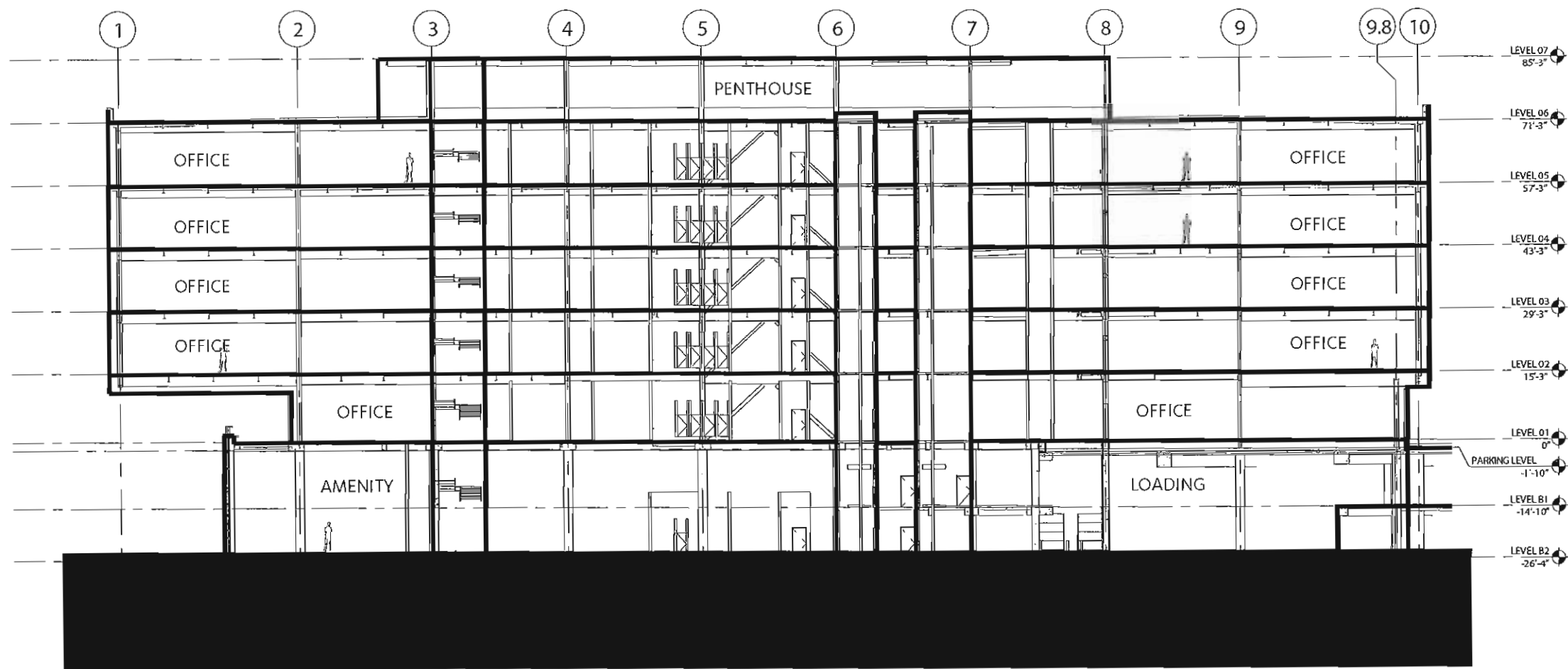


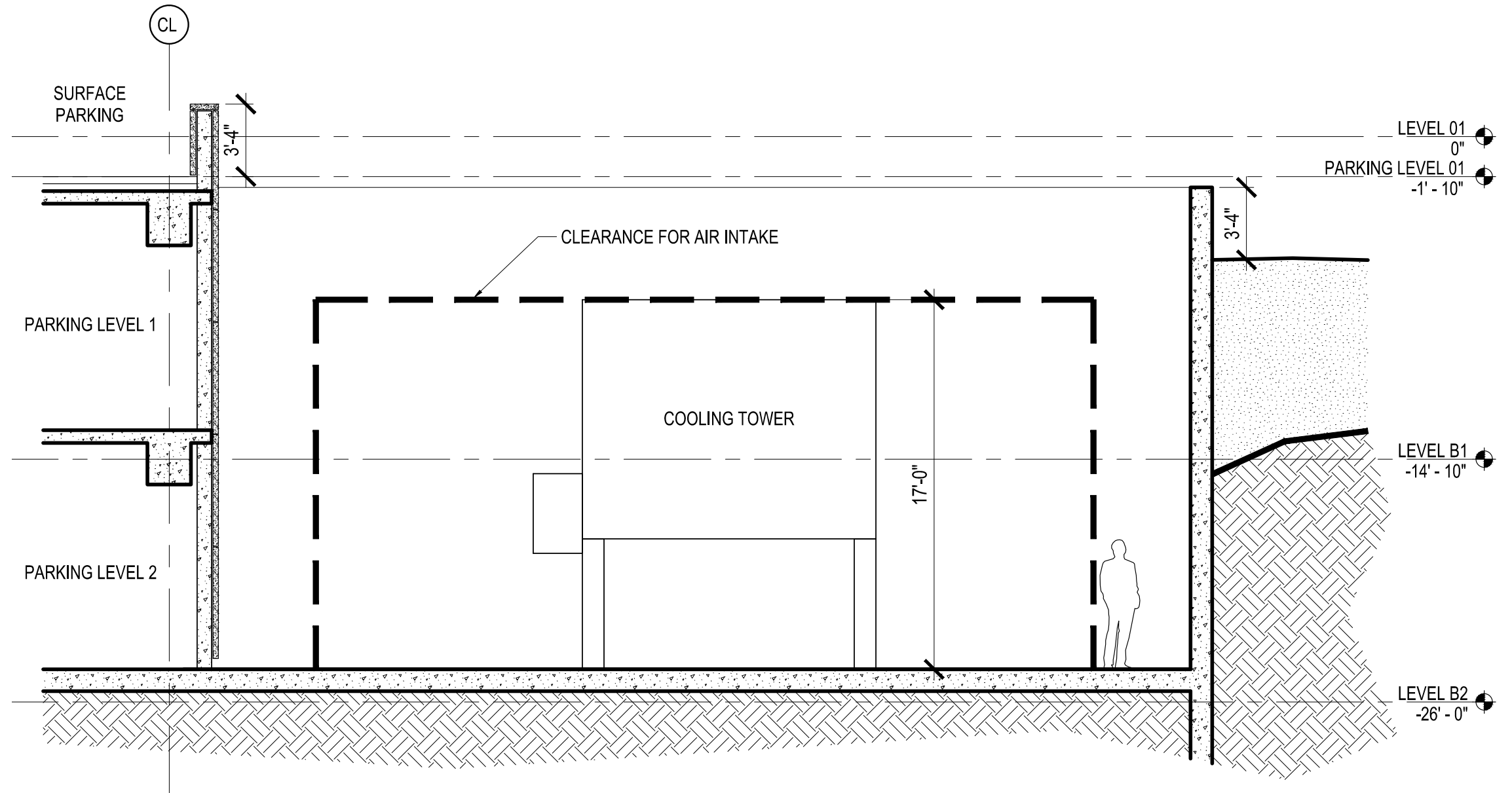


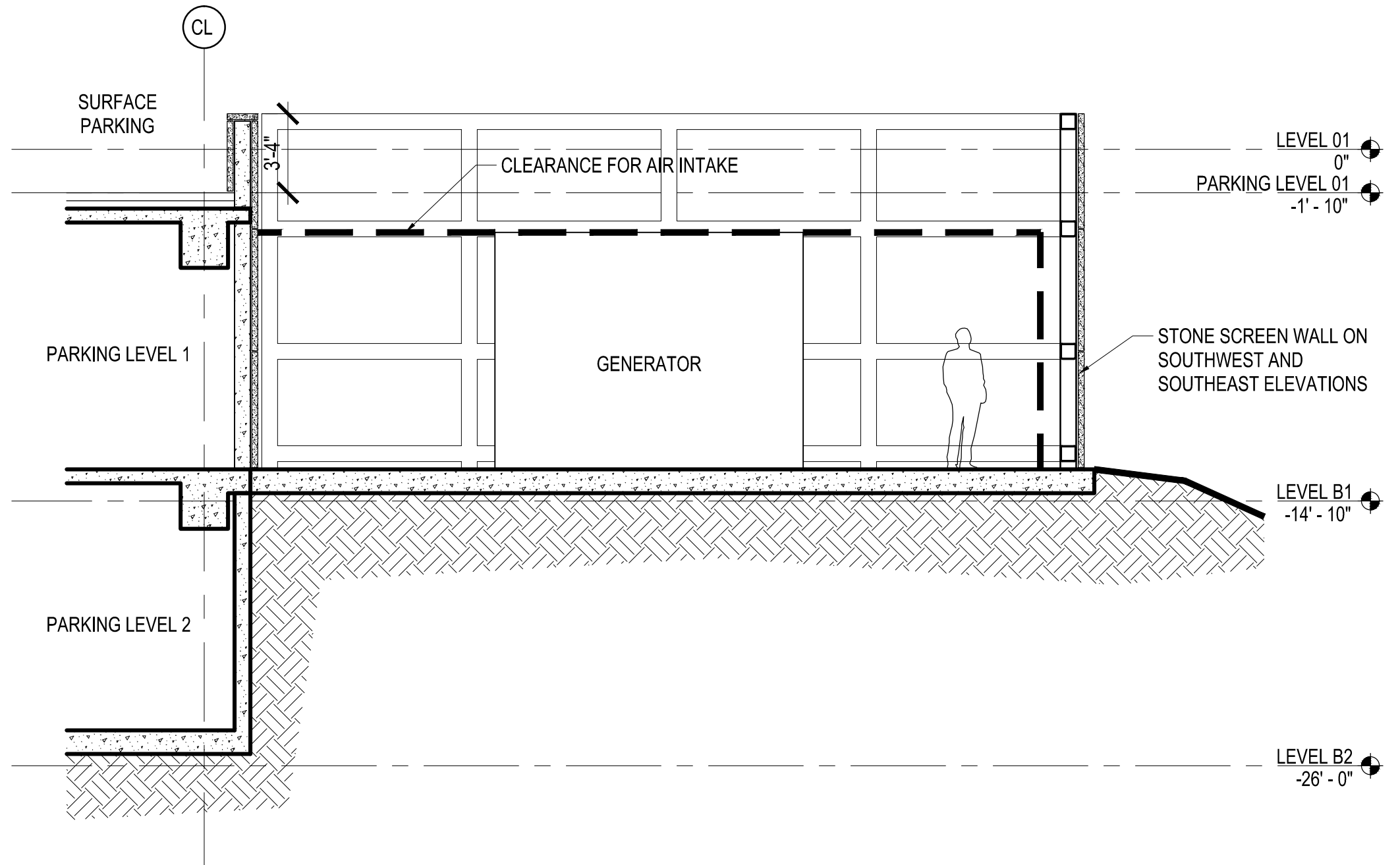
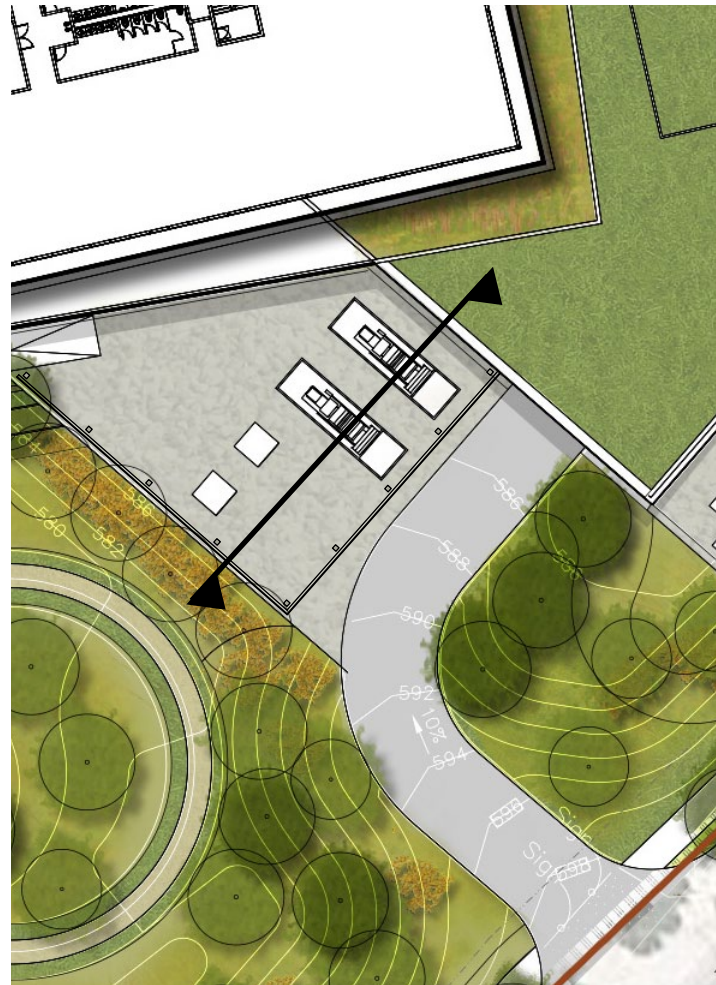












Adjustable Gantry luminaires with asymmetrical light distribution

Luminaires: Luminaires are classified as full cut-off in straight down position, with Type II and Type III distributions available - specify. Luminaire housings are one piece heavy die-cast aluminum construction. Door frames are die-cast, hinged and latched for toolless entry. Lenses are 3/16" clear tempered glass, sealed with one piece silicone gasket. All hardware is stainless steel.

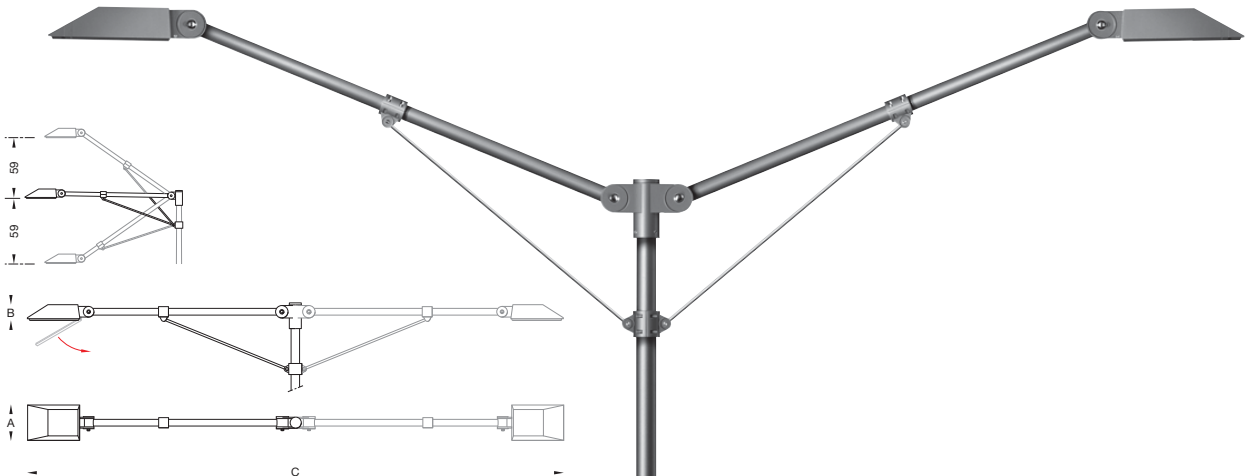
Arm assembly: Aluminum arm slip fits a 3" O.D. pole top. The Gantry System to be used with compatible poles only- consult factory for details. Unique moveable support strut and pole fitter swivel provide an adjustable mounting height of $\pm 60^\circ$ from horizontal. This, combined with a 180° swivel at the fixture head, allows for infinite flexibility in the arm mounting height and the angle of the luminaire.

Electrical: Lampholders are medium base, rated 4KV. Lampholders are porcelain with nickel plated copper screw shell supplied, rated 600V. Ballasts are magnetic HPF, located in the luminaire housing and available in 120V, 208V, 240V or 277V - specify.

Finish: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

U.L. listed, suitable for wet locations. Protection class IP 65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Double outrigger luminaires

	Lamp	Lumen	A	B	C
8254 MH	2 150W ED-17 MH*	25000	13	5%	196%

*Coated lamp required for optimum optical performance.

Specify Type II or Type III distribution.

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Adjustable Gantry luminaires with asymmetrical light distribution

Luminaires: Luminaires are classified as full cut-off in straight down position, with Type II and Type III distributions available - specify. Luminaire housings are one piece heavy die-cast aluminum construction. Door frame is die-cast, hinged and latched for toolless entry. Lenses are 1/4" clear tempered glass, sealed with one piece silicone gasket. All hardware is stainless steel.

Arm assembly: Aluminum arm slip fits a 3" O.D. pole top. The Gantry System to be used with compatible poles only- consult factory for details. Unique moveable support strut and pole fitter swivel provide an adjustable mounting height of $\pm 60^\circ$ from horizontal. This, combined with a 180° swivel at the fixture head, allows for infinite flexibility in the arm mounting height and the angle of the luminaire.

Electrical: Lampholders are medium base, rated 4 KV. Lampholders are porcelain with nickel plated copper screw shell supplied, rated 600V. Ballasts are magnetic HPF, located in the luminaire housing and available in 120V, 208V, 240V, or 277V - specify.

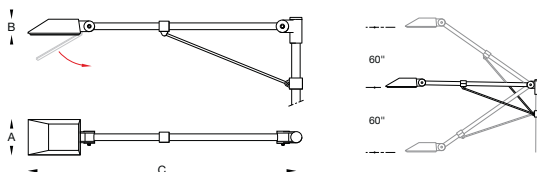
Finish: These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed, suitable for wet locations. Protection class IP 65.

Weight: 67 lbs.

Effective Projection Area (EPA): 2.5 ft²

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Single outrigger luminaires

Lamp	Lumen	A	B	C
8053MH	1 150W ED-17 MH*	12500	13	5% 98%

*Specify Type II or Type III distribution. Coated lamp required for proper optical performance.

Bollards with single-sided light output

Post construction: Constructed of a one piece die-cast aluminum base. All aluminum is marine grade, copper free alloy.

Optical enclosure: Thick walled aluminum extrusion with die-cast aluminum end cap and lens frame. Clear, tempered safety glass lens with a linear spread pattern. Reflector made from pure anodized aluminum. Internal louvers are made from semi specular anodized aluminum.

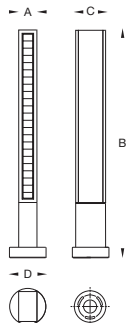
Electrical: Lampholders; Fluorescent miniature bi-pin T5 HO, rated 120W, 600V. Ballasts; integral electronic, universal voltage 120V through 277V. Standard T5 lamping available upon request. Consult factory.

Anchor base: Provided with a heavy cast aluminum base, slotted for precise alignment. Mounts to BEGA #896 A anchorage kit and secured to the post with one stainless steel screw.

Finish: Available in five standard BEGA colors: Black (BLK), White (WHT), Bronze (BRZ), Silver (SLV), Eurocoat (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

U.L. listed, suitable for wet locations. Protection class: IP 65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
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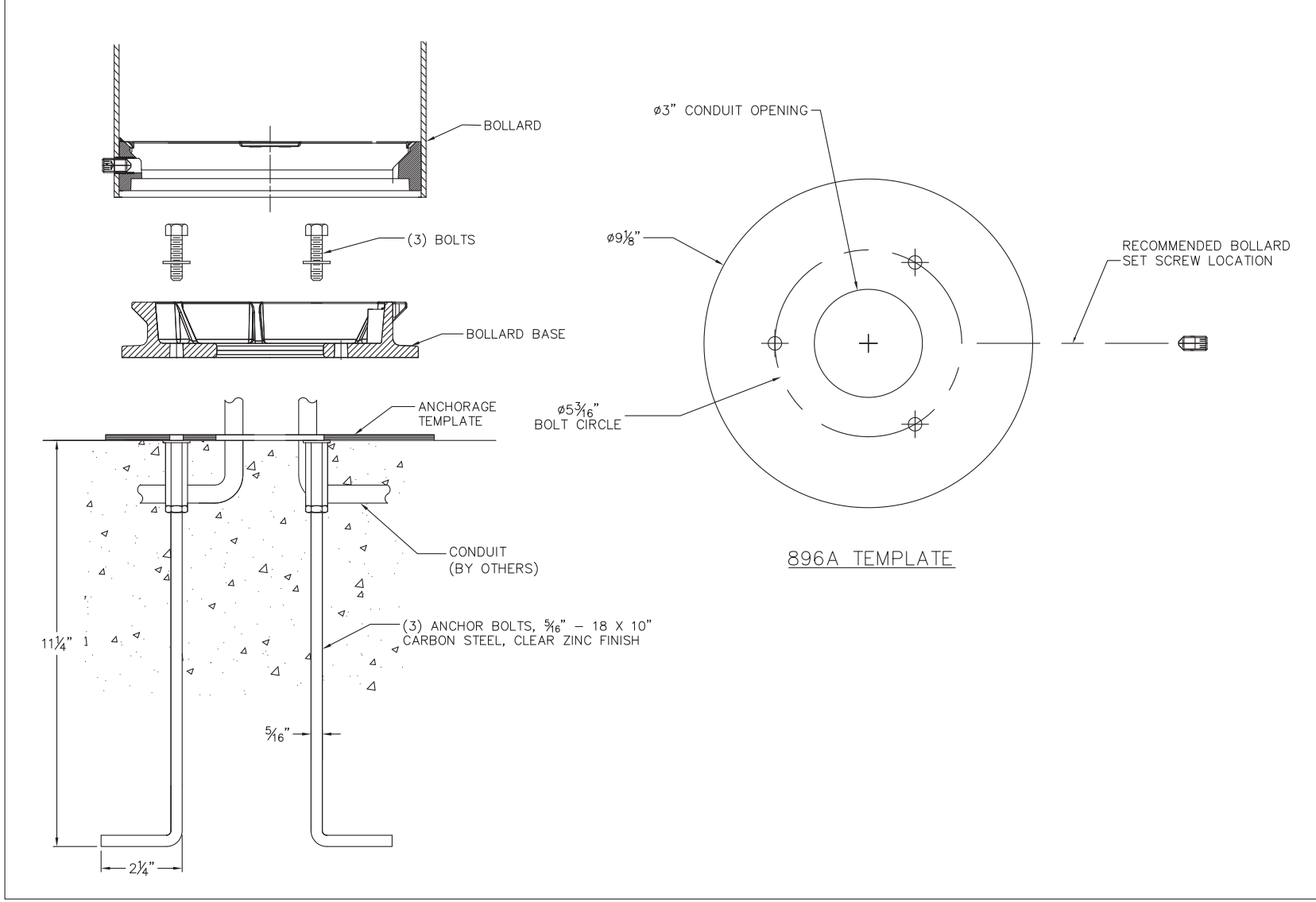
Single-sided light output

	Lamp*	Lumen	A	B	C	D	Anchorage
8845 P	1 39W FL T5 HO	3500	3 3/4	47 1/4	6 1/8	7 1/2	896 A

* Equivalent standard T5 lamping available

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Catalog No.: 896A
 Description: Anchorage Kit
 Drawn by: ES Date: 4/1/2010 File Name: _____
 SCALE: NONE - DO NOT SCALE DRAWING

BEGA
 1000 Bega Way
 Carpinteria, Ca. 93013
 (805) 684-0533

Bollards for light directed downwards

Post construction: One piece extruded aluminum with a one piece die-cast aluminum top housing and a base internally welded into an assembly. All aluminum used in the construction is marine grade and copper free.

Lamp enclosure: One piece die-cast aluminum top housing removable for relamping, secured by two captive stainless steel screws threaded into stainless steel inserts. Clear tempered safety glass. Reflector made from pure anodized aluminum. Fully gasketed using a molded silicone high temperature gasket. Fully shielded to comply with LEED Zones 1 and higher.

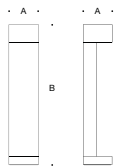
Electrical: 13W LED luminaire, 15.3 total system watts, -25°C start temperature. Integral 120V through 277V electronic LED driver, dimming available with reverse phase control (trailing edge) dimmers. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 5000K with a 65 CRI. Available in 3000K (85 CRI) and 4000K (85 CRI); add suffix K3 or K4 respectively to order.

Finish: Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA #895A anchorage kit. Bollards are secured to the post with one (1) stainless steel set screw.

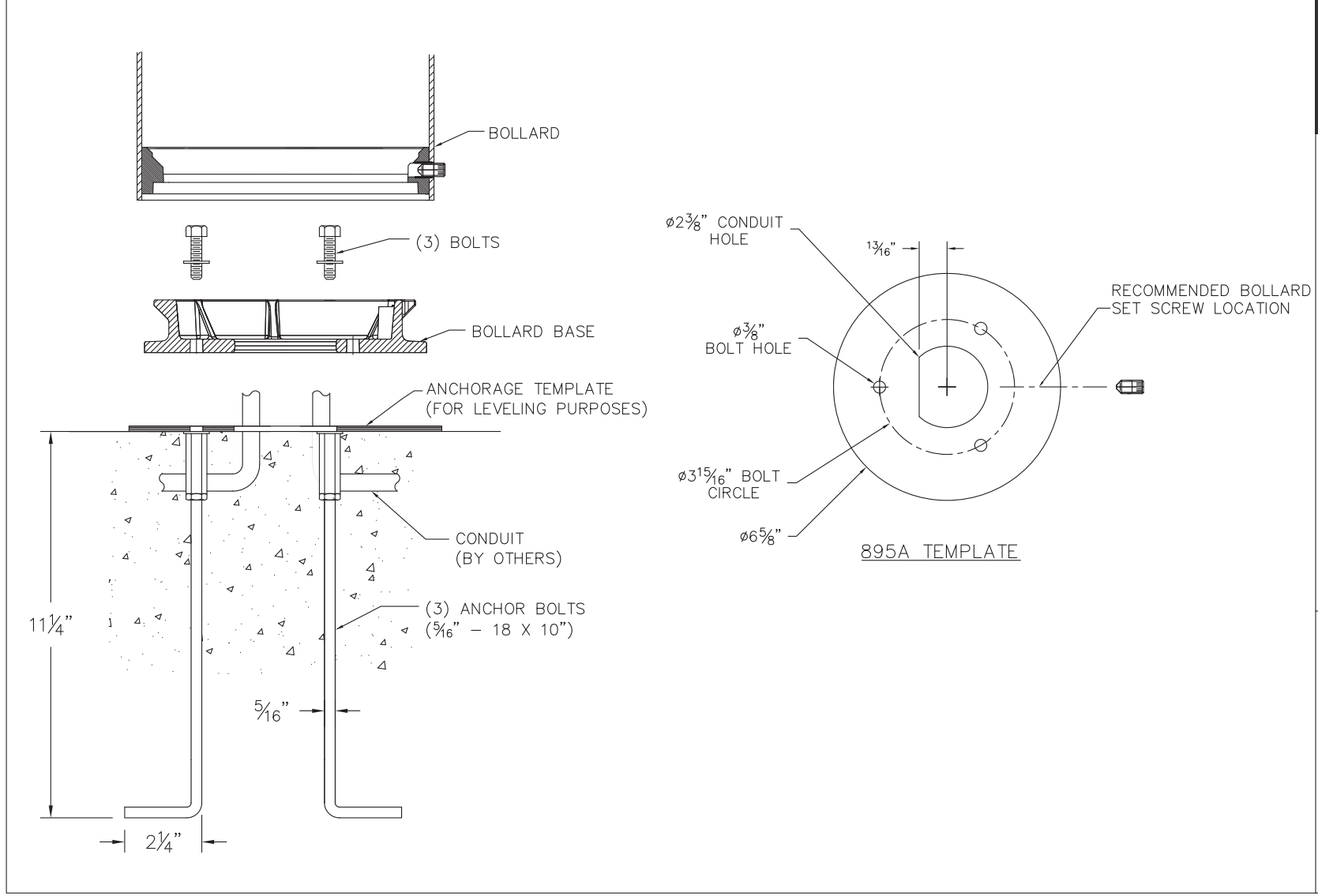
UL listed, suitable for wet locations. Protection class: IP65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



	Lamp	Lumen	A	B	C	Anchorage
8657 LED	13W LED	1440	6%	21%	6%	895A





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Catalog No.: 895A
 Description: Anchorage Kit
 Drawn by: ES Date: 1/26/12 File Name: 895A.dxf
 SCALE: NONE - DO NOT SCALE DRAWING

BEGA
 1000 Bega Way
 Carpinteria, Ca. 93013
 (805) 684-0533

Light building element
with **single-sided** light output

Post construction: The Light Element is constructed of a one piece thick walled aluminum extrusion with a die-cast end cap at the top and internal, heavy wall cast aluminum support pieces at the pole base. All aluminum is marine grade, copper free alloy.

Optical enclosure: Thick walled aluminum extrusion with die-cast aluminum end cap and lens frame. Clear, tempered safety glass lens with a linear spread pattern. Reflector made from pure anodized aluminum. Internal louvers are made from semi specular anodized aluminum.

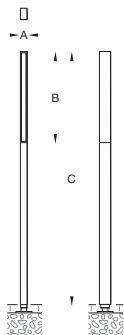
Electrical: Lampholders; Fluorescent miniature bi-pin T5 HO, rated 120W, 600V. Ballasts are electronic, universal voltage, 120V through 277V.

Anchor base: The Lighting Elements are supplied with an 890C anchorage, consisting of a heavy gauge welded assembly of .157" thick galvanized steel. The luminaires slip fit over the base and are secured by eight (8) stainless steel fasteners.

Finish: Available in five standard BEGA colors: Black (BLK), White (WHT), Bronze (BRZ), Silver (SLV), Eurocoat (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

U.L. listed, suitable for wet locations. Protection class: IP 65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Single-sided

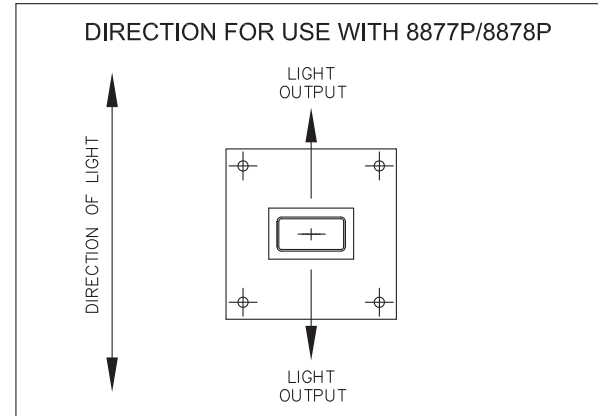
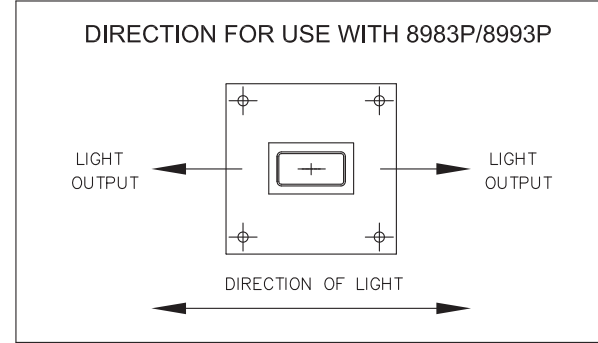
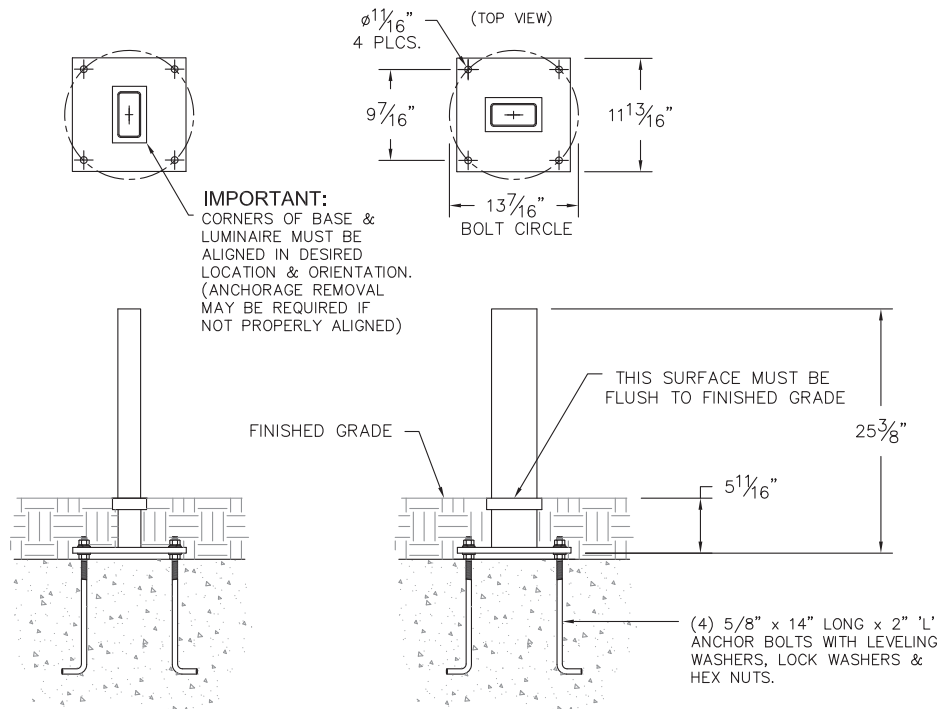
Lamp*	Lumen	A	B	C	Anchorage
8983 P 1 54 W FL T5 HO	5000	3 3/4 x 6 1/8	47 1/4	138	890 C

*Equivalent standard T5 lampping available

TYPE SD

NOTES:

1. 890C ANCHOR BASE – SEE 8983P/8993P/8877P/8878P SPECIFICATIONS
ANCHOR BASE MATERIAL: GALVANIZED STEEL.
2. BASE MUST BE BURIED/INSTALLED TO FINISHED SURFACE AS SHOWN.



BEGA

1000 Bega Way
 Carpinteria, Ca. 93013
 (805) 684-0533

Catalog No.: **890C**
 Description: ANCHOR BASE DETAIL
 Drawn by: Bob Mc Date: 2/17/11 File Name: 890C
 SCALE: NONE – DO NOT SCALE DRAWING

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LED pole top luminaires with asymmetrical light distribution

Housing: Die-cast aluminum housing and slip fitter. Slip fits 3" O.D. pole top, secures to pole with integrated slip fitter mechanism and single set screw. Luminaire head slope adjustment located in slip fitter for 0° or 15° head angle. All aluminum used in the construction is marine grade and copper free.

Enclosure: Faceplate is hinged; constructed of die-cast aluminum with toolless access latch for easy maintenance. Tempered clear safety glass with a reflector of pure anodized aluminum. Fully shielded light distribution for no trespass above horizontal. Fully gasketed with a molded silicone gasket.

Electrical: 156W LED luminaire, 174 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. Integral 10KV surge protection. Standard LED color temperature is 4000K with an 85 CRI. Available in 3000K (85 CRI); add suffix K3 to order.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

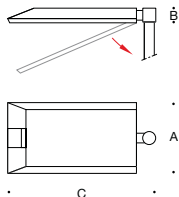
Finish: These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards. Protection class: IP66.

Weight: 23 lbs.

Effective Projected Area (EPA): .86 ft²

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Single LED pole-top luminaires

	Lamp	LEED	Lumen	A	B	C
9599 LED	156W LED	LZ-0	16560	13%	3	32%

Recommended for use with 30' to 35' poles.

Recessed wall luminaires with directed light

Housing: Constructed of die-cast and aluminum with integral wiring compartment. Mounting tabs provided.

Enclosure: One piece die-cast aluminum faceplate. Clear tempered glass; .125" thick, machined flush to faceplate surface. Faceplate is secured by two (2) flush, socket head, stainless steel captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature, molded silicone rubber gasket for weather tight operation.

Electrical: 11.2W LED luminaire, 14.5 total system watts, -30°C start temperature. Integral 120V-277V electronic LED driver, 0 -10V dimming available - consult factory. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4).

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed, suitable for wet locations and for installation within 3 feet of ground. IC rated. Protection class: IP65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



	Lamp	Lumen	A	B	C
2384 LED	ADA 11.2W LED	900	12 1/2	2 3/4	2 1/2

Surface-mounted ceiling downlights for H.I.D. lamps

Housing: Two piece die-cast aluminum provided with means for direct attachment to the ceiling over a 3½" or 4" octagonal wiring box. All aluminum used in the construction is marine grade and copper free.

Enclosure: Tempered clear glass, retained by a one piece, die-cast aluminum step baffle frame. Frame is secured by one stainless steel captive screw threaded into a stainless steel insert. Internal reflector made from pure, anodized aluminum. Fully gasketed for weather tight operation using molded silicone rubber "U-channel" gasket.

Electrical: H.I.D. lampholders are GU6.5 base, bi-pin porcelain with nickel plated copper contacts, pulse rated 5KV. Ballasts are electronic, universal voltage 120V through 277V, located in the luminaire housing.

Finish: Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed, suitable for wet locations. Protection class IP65.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



					Lumen	β	A	B	
5618MH	1	39W	T4	GU6.5	MH	3400	76°	6	7 1/8

β = Beam angle



Drive-over in-grade floodlights
with low surface temperature lens and adjustable light distribution

Enclosures: Outer housing of high tensile strength stainless steel; Inner housing is factory sealed and fabricated of heavy gauge stainless steel.

Trim Ring: Heavy gauge, machined stainless steel secured to inner housing by six (6) stainless steel hex head fasteners. Trim is sealed in place using molded, one piece high temperature silicone gasket. Glass is clear tempered, 1/2" thick, machined flush to trim ring.

Electrical: Porcelain bi-pin lamp with nickel plated contacts for G8.5 base lamps. Provided with a magnetic HPF ballast available in 120V or 277V - specify. Inner housing pre-wired with nine (9) feet of 18/3 waterproof cable with "water stopper" feature, cable clamp and waterproof cable gland entry into housing. A separate waterproof wiring box for power supply must be provided (by contractor).

Adjustable optical assembly: Consists of a pressed glass, faceted reflector with dichroic coating to conduct infrared heat rearward, while reflecting visible light forward. Assembly includes temperature reducing infrared lens which must be kept in place when adding lens options. Color filters, spread lenses and a concentric ring louver may be added as available options. Precise aiming of the lamp is achieved by adjusting reflector assembly 180° horizontal and up to 30° vertical in 5° increments and locking in place with an integral set screw.

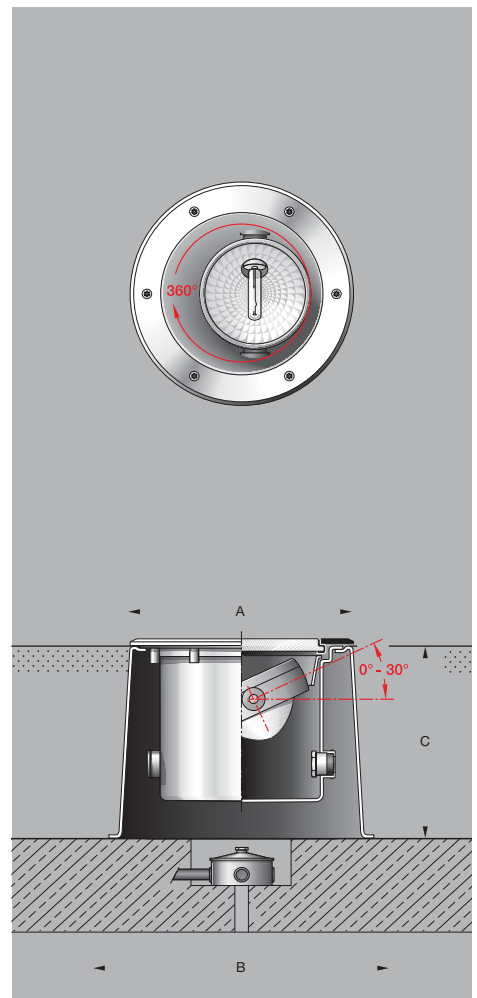
Finish: Machined #4 brushed stainless steel. Custom colors not available.

UL listed, suitable for wet locations and drive-over. Protection class IP68.

Temperature caution: The column 'T' in this chart indicates the temperature in degrees Celsius which is reached on the center of the glass surface during operation. Surface temperatures are for exterior applications. For interior applications add 10°C to temperatures shown.

Note: These luminaires are designed to bear pressure loads up to 4400 lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Adjustable floodlights														
Lamp	β	Lumen	T	A	B	C								
8751 MH	1	70W T4G8.5 MH	14°	6400	74°	13	16	10	670	321	322	323	300	309
					β = Beam angle									

Drive-over in-grade linear floodlights with LEDs - Asymmetrical

Enclosure: Outer housing: Constructed of high tensile strength, copper free die-cast aluminum alloy.

Inner housing: Constructed of extruded stainless steel. Trim/Faceplate is heavy gauge, machined stainless steel secured to the inner housing by stainless steel threaded welded studs. Maintenance requires removal of inner housing/trim/faceplate assembly from outer housing by means of two flush, socket head stainless steel screws. 1/4" thick tempered matte safety glass machined flush to faceplate. One piece molded U-channel, high temperature silicone gasket. Reflector is aluminum with high gloss coating.

Electrical: 44 W LED luminaire, -35° C start temperature. Integral 120V through 277 V electronic LED driver, dimming not available. Standard LED color temperature is 5000K. Available in 4000K; add suffix K4 to order. Available in 3000K; consult factory. Inner housing pre-wired with nine (9) feet of 18/3 water stopper cable, cable clamp, and waterproof cable gland entry into housing. A separate weatherproof single gang wiring box for power supply must be provided (by contractor).

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

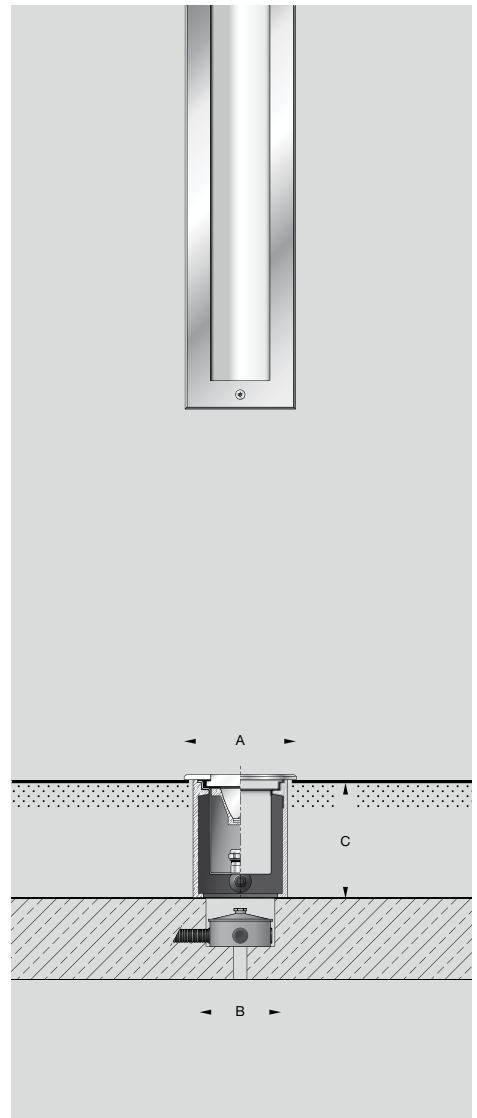
Finish: #4 brushed stainless steel. Custom colors are not available.

UL Listed, suitable for wet locations and vehicle drive over. Protection class: IP67.

Note: A foundation and proper drainage must be supplied by the contractor. These luminaires are designed to bear pressure loads up to 2,200 lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.

Weight: 29.8 lbs.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Floodlights - Asymmetrical

	Lamp	Lumen	A	B	C
8849 LED	44 W LED	4000	39% x 3%	3 1/2	5

Drive-over in-grade floodlights
for linear fluorescent lamps

Enclosure: Outer housing: Constructed of high tensile strength, copper free die-cast aluminum alloy.

Inner housing: One piece copper free die-cast aluminum housing with welded end caps. Trim/Faceplate is heavy gauge, machined stainless steel secured to the inner housing by stainless steel threaded welded studs. Relamping requires removal of inner housing/trim/faceplate assembly from outer housing by means of two flush, socket head stainless steel screws. 1/2" thick tempered glass machined flush to faceplate. Reflector of pure anodized aluminum. One piece molded U-channel, high temperature silicone gasket.

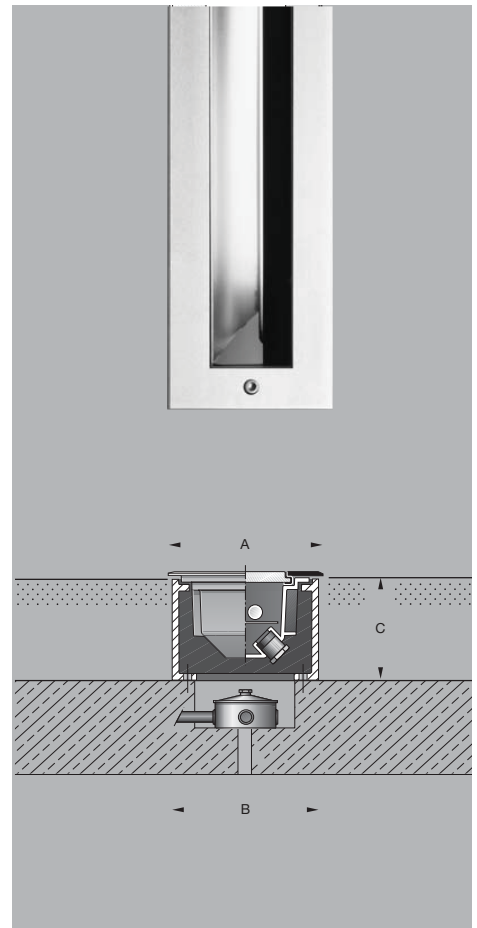
Electrical: Lampholders: Fluorescent T5 HO, rated 660W, 600V. Ballasts are electronic, universal voltage 120V through 277V. Inner housing pre-wired with nine (9) feet of 18/3 waterproof cable, cable clamp, and waterproof cable gland entry into housing. A separate weatherproof single gang wiring box for power supply must be provided (by contractor). Standard T5 lamping available upon request.

Finish: Machined #4 stainless steel. Custom colors are not available.

UL Listed, suitable for wet locations and vehicle drive over. Protection class: IP67.

Note: A foundation and proper drainage must be supplied by the contractor. These luminaires are designed to bear pressure loads up to 11,000lbs. from vehicles with pneumatic tires. The luminaires must not be used for traffic lanes where they are subject to horizontal pressure from vehicles braking, accelerating and changing direction.

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



Asymmetrical floodlights · clear safety glass

Lamp	β	Lumen	T	A	B	C		
8643P*	1	54 W FL T5 HO	62x 94°	5000	45°	4 5/8 x 48 5/8	4 1/4 x 48 1/4	5

*Standard T5 lamping available upon request

β = Beam angle

Revisions: A - 09/27/12

**RGA HEADQUARTERS
LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER CATALOG NUMBER	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAXIMUM WATTS/ UNIT	VOLTS	NOTES	REV.
SA	Bega 8254MH/14.5GP/ XXX(Finish)/3000K/ MOD LED	Twin head LED "gantry" parking lot pole	Integral	N/A	400	As Req'd		A
SA-1	Bega 8053MH/14.5GP/ XXX(Finish)/3000K/ MOD LED	Single head LED "gantry" parking lot pole	Integral	N/A	200	As Req'd		A
SB	Bega 8845P/896A/XXX (Finish)	Linear fluorescent bollard	F39T5/830/ HO/ALTO	1	15/FT	As Req'd		
SB-1	Bega 8657LED/895A	LED cut-off bollard	Integral	1	12	As Req'd		A
SC	Not Used							A
SD	Bega 8983P/890C/XXX (Finish)	Linear fluorescent light column	F54T5/830/ HO/ALTO	1	15/FT	As Req'd		

Revisions: A - 09/27/12

**RGA HEADQUARTERS
LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER CATALOG NUMBER	LUMINAIRE DESCRIPTION	LAMP CODE	LAMPS/ UNIT	MAXIMUM WATTS/ UNIT	VOLTS	NOTES	REV.
SE	Bega 9599LED/2908SF/ XXX (Finish)/K4	Single head LED street light	N/A	N/A	156	As Req'd		
SF	Bega 2384LED	LED wall recessed step light	Integral	1	12	As Req'd		A
SG	Bega 5618MH	Canopy mounted metal halide cylinder downlight	MC39TF/U/ GU6.5/830	1	45	As Req'd		
SH	Not Used							A
SJ	Bega 8751MH/300	Flush to grade metal halide uplight illuminating retaining wall.	Philips CDM35/TC/830	1	95	As Req'd		A
SK	Bega 8849LED	Flush to grade LED asymmetric uplight.	Integral	N/A	40	As Req'd		A
SL	Bega 8643P	Flush to grade linear fluorescent asymmetric uplight.	Integral	N/A	15/FT	As Req'd		A