CITY OF
BAINBRIDGE ISLAND

Design Review Board
Special Meeting Minutes
Monday, September 11, 2017

Call to Order (Attendance, Agenda, Ethics)
Review and Approval of Minutes June 19, 2017
Winslow Hotel
Blakely Elementary School PLN50767 CUP SPR
Sound to Olympics Trail Presentation
New/Old Business
Adjourn

Call to Order (Attendance, Agenda, Ethics)

Chair Alan Grainger called the meeting to order at 2:00 pm. Design Review Board (DRB) members in attendance were Jim McNett, Joseph Dunstan, Peter Perry, Jason Wilkinson and Alan Grainger. Jeff Boon and Chris Gutsche were absent and excused. City staff present were Interim Planning Manager Heather Wright, Associate Planner Kelly Tayara and Administrative Specialist Lara Lant who recorded the meeting and prepared minutes.

Alan Grainger disclosed he knew Mike Burns, the property owner of the Winslow Hotel project.

Review and Approval of Minutes – June 19, 2017

The minutes were reviewed.

> **Motion**: I move to approve the minutes of June 19th, 2017 as written, with questions as noted to be addressed by Director Gary Christensen.
> **Perry/Dunstan**: The motion carried 5-0.

Alan Grainger requested Director Gary Christensen address project conditioning by city planners as well as next steps after the combined City Council, Planning Commission and Design Review Board meeting introducing the results of the Latimore Report.

Winslow Hotel

Bruce Anderson and Jim Cutler, architects of the proposed Winslow Hotel project, presented drawings of the project to the Design Review Board. They sought pre-preapplication comments on a proposal to construct a 60 to 75 room hotel with associated banquet space, meeting rooms, restaurant, bar, coffee shop, spa and retail. The project would cover approximately 65,000 to 70,000 sf over two lots, excluding a garage. Floor area ratio (FAR) purchased from the Islander Mobile Home Park and bonuses for retaining significant trees would allow increased density. Structures would be designed around a substantive Redwood intertwined with a Douglas Fir tree be reminiscent of the rough, heavy timbers of the historic Blakely Saw Mill. (SEE ATTACHED PRESENTATION.)

Joe Dunstan stated he liked the project's landscape architecture but was concerned with the scale of the north elevation. Alan Grainger stated there were shortcomings in guest arrivals and service area plans. Bruce Cutler replied stacking vehicles, valet services, and parking based on ferry traffic were being considered so the project wouldn't be "under-parked." Jason Wilkinson suggested the project's continuous east façade be scaled down with greenery, pedestrian access be added to create public spaces, and carshare opportunities provided for guests. Alan Grainger requested drawings noting scale and proximity of the buildings adjacent to the project be brought to the next review.

Blakely Elementary School PLN50767 CUP SPR

Interim Planning Manger Heather Wright stated the Bainbridge Island School District was seeking a recommendation for the Blakely Elementary School project. Today's presentation addressed revisions made since the last presentation before the Design Review Board. Richard Franko of Mithun introduced the revised project. (SEE ATTACHED PRESENTATION.) After the presentation, the Design Review Board discussed street lighting, pedestrian access and pathways which could improve connections. Charles Schmid commented that the buffer bordering IslandWood was very narrow.

> **Motion:** I move that we approve this design with the following recommendations: A footpath be added from the southwest corner of the site to access around the east side of the bus parking area, and a further review of the relationship of the landscaping of the main entry spine be performed.
> **McNett/Wilkinson:** The motion carried 5-0.

Sound to Olympics Trail Presentation

Sound to Olympics (STO) Trail Bridge Project Manager Mark Epstein introduced Steve Rabago from the Public Art Committee and Douglas Sarkkinen from Otak, Inc. Together they described the current status of the STO Trail Bridge project. (SEE ATTACHED PRESENTATION.) This portion of the project was Phase Three of the STO Trail. Mark Epstein emphasized the connectivity between trails and easements and that previous planning studies recommended these connections. Up to this point, there had been one public meeting to consider conceptual ideas and there was no clear consensus on bridge style. The $2.2 million budget for the bridge included approaches but did not include monies for public art. Construction was planned for 2019.

The Design Review Board commented that incorporating public artwork early in the process was important.

CITY OF
BAINBRIDGE ISLAND

Design Review Board
Special Meeting Minutes
Monday, September 11, 2017

New/Old Business
There was no new/old business.

The meeting adjourned at 5:26 p.m.

Approved by:

Alan Grainger, Chair

Lara Lant, Administrative Specialist

CITY OF
BAINBRIDGE ISLAND

CITY OF BAINBRIDGE ISLAND
DESIGN REVIEW BOARD – REGULAR MEETING
September 11, 2017

PLEASE PRINT

Name	Affiliation	Phone/ E-Mail	Join ListServ Yes/No
ALAN GRAINGER	DRB		
JOE DUNSAN	DRB		
Nick Twietmeyer	Bainbridge Island Review	NA	No
Jim McNett	DRB	—	—
Peter Posey	DRB —	—	—
JASON WILKINSON	DRB	—	-
Olaf Ribeiro	Ribeiro Consultants	—	—
Chanda Schmid	ABC		
JIM CUTLER	CAA	206-842-4710	
BRUCE ANDERSON	"	"	
Tamela VanWinkle	BISD	Tvanwinkle@BISD303.org	—
MICHAEL EVERETT	MITHUN		
SEAMUS KELLY	MITHUN	seamusk@mithun.com	No
RICH FRANKO	mithun		
Steve Rabago	Public Art Comm.	Steve@rabago.me	Yes
Douglas Sarkkinen	Otak, Inc	douglas.sarkkinen@otak.com	

MITHUN

Seattle
Mithun/Pier 56
1201 Alaskan Way #200
Seattle, WA 98101
(206) 623 3344

San Francisco
Mithun/Solomon
660 Market Street #300
San Francisco, CA 94101
(415) 956 0688

mithun.com

Memorandum

To:	City of Bainbridge Island	**Date:**	September 11, 2017
		Project #:	1622400
From:	Mithun	**Project:**	Captain Johnston Blakely Elementary School
Re:	Design Review Board - Compliance & Design Response Information		

The following information is being provide to illustrate compliance with the CoBI Design Guidelines, incorporating the input from the DRB's pre-application review on March 6, 2017.

I. Project Summary & Vision

The Blakely Elementary School project is the replacement of a 1965 school building with a new pre-K through 4th grade school serving 450 students and an expansion option for 600 students. The design of the site and building are guided by the four goals established in the teacher, staff and community programming process known as the 'Ed Spec'.

1. Foster next generation learning
2. Strengthen community
3. Enhance connectivity , safety and flow
4. Create a healthy environment for learning

The new school design is inspired by the sloping site, existing trees and the rural character of South Bainbridge Island. The main spine of the school climbs the north south slope and provides a separation between the lower administration, commons and gymnasium area from the upper classroom and library educational core. The entry landscape provided enhance safety with separated bus and car parking, signalized pedestrian entry, and visual connections for natural surveillance. The landscape design creates zones echoing the surrounding forest, meadows and wetland.

The educational core is designed around an 'L' shaped module of 4 classrooms surrounding a shared learning space for collaborative group activities. Each classroom has extensive daylight and multiple views to the exterior and to shared learning. The classroom modules create a south facing courtyard to extend learning areas to the exterior. The courtyard is completed by a library opening out to the woods and a STEAM classroom with outdoor activity areas.

Sustainability is incorporated into multiple elements of the design, with geothermal wells for energy efficiency to low emitting materials that provide healthy indoor environments for children. All habitable spaces have daylighting, and energy efficient lighting and mechanical equipment are used throughout the building.

II. DRB Pre-Application Comments and Recommendations

Meeting Minutes are attached. DRB comments and Recommendations have been highlighted and numbered. Responses to each line item are as follows:

1. Drive Alignment with Baker Hill.
2. Landscape buffers and screening between parking area and busses to indicate clear pathway for pedestrians.

III. Other Design Changes from Pre-Application DRB presentation

A. Design simplification *(see presentation)*
B. Building Materials *(see presentation)*

IV. Commercial / Mixed Use Design Guidelines Checklist BIMC 18.18.030.C

See attached.

CITY OF
BAINBRIDGE ISLAND

Design Review Board
Regularly Scheduled Meeting Minutes
Monday, March 6, 2017

Call to Order (Attendance, Agenda, Ethics)
Review and Approval of Minutes – February 17, 2017
Work Session
Blakely Elementary School PLN50767 PRE
Wallace Cottages PLN50589 PRE
New/Old Business
Adjourn

Call to Order (Attendance, Agenda, Ethics)

Chair Alan Grainger called the meeting to order at 2:10 pm. Design Review Board (DRB) members in attendance were Jeff Boon, Jim McNett, Joseph Dunstan, Jason Wilkinson. Chris Gutsche and Peter Perry were absent and excused. City Council Liaison Ron Peltier and Planners Heather Wright and Kelly Tayara were present. Administrative Assistant Lara Lant recorded the meeting and prepared minutes. No conflicts were disclosed.

Work Session (this replaced Review of Minutes on the Agenda)

Charles Schmid requested a few minutes to present information to the Design Review Board. He wanted to review a motion which carried unanimously at their November 21, 2016 meeting. *We have reviewed Grow Community Phase 3 and we are recommending approval of revised plans submitted today 11-21-16 with one condition: that the applicant ensures full screen requirements per the Hearing Examiner's condition 42 are met and that Josh Machen confirms whether a 10' wide landscape buffer can be met.* Charles Schmid said the project originally had a 20' partial screen which was reduced to the minimum requirement of 15' and reduced again to 10' based on a ruling by the Hearing Examiner. The developer put a 5' sidewalk in the 10' screen. He didn't see where a bicycle path would be developed but wasn't sure a 5' path could accommodate bicycle traffic. He wanted to bring this information to the attention of the Design Review Board. Alan Grainger said he would request Josh Machen to return to the Design Review Board to address this situation. Joseph Dunstan said he wanted to formally ask the Planning Director to respond and Alan Grainger said they would make that request through the minutes of this meeting. Jason Wilkinson said the Design Review Board should keep a running list of action items for projects that would be reviewed at each meeting. The details of that process will have to be organized by the Design Review Board.

Review and Approval of Minutes – February 17, 2017

The minutes were reviewed.

Motion: I move to approve the minutes of February 17, 2017.
Dunstan/Boon: The motion carried 5-0.

Blakely Elementary School PLN50767 PRE

Tamela Van Winkle, Director of Capital Projects, Facilities and Operations for Bainbridge Island School District summarized the school district's financial position and ongoing design modifications. Representatives from Mithun, Inc presented the latest design. There were 2 primary elements of the school, the lower section with a flat area for a playfield, gymnasium, and an administrative wing and an upper section containing classrooms. The lower section of campus would also serve as community space for parents and students. A connecting "spine" joined the upper and lower buildings. The largest blank wall was for the covered play area which was about 300' from the road. A student drop off zone, teacher parking and a bus drop off area were adjacent to a common area that filtered to the lower section of campus. They would avoid mixing bus and vehicle access by having separate entrance and exits. Alan Grainger said the entrances and exits were not aligned with Baker Hill Road and that crossing that intersection would mean vehicles interfacing with students walking across the road. He noted that Blakely Avenue was also a primary access to the Fort Ward area and this design added congestion. Mithun replied their initial design contained the realigned road access but due to the expense of moving utilities, clearing trees and additional storm water requirements, they had reconsidered. Alan Grainger told Heather Wright it would be irresponsible for the city to approve this road configuration. Mithun Inc said a playfield would be constructed at the front of the school and a 5' fence would separate it from the parking area. Screening and buffers would increase near parking. Joe Dunstan said continuing the buffer between parking area and the busses would indicate a clear pathway for pedestrians. #1 #2

Buildings were configured in an L shape, containing classroom clusters which provided common, shared learning spaces. Stairs would connect the upper and lower campus and provide a place to hang out. The construction would accommodate up to 600 students. A cistern on the upper campus would collect water that could be used for toilet flushing. Tamela Van Winkle said hyper escalation of area-wide building required simplification of their design. Additional brick and fibrous cement would replace some wood design elements. Durable, low-maintenance pathways would be created using concrete and crushed aggregate and there would be wood decking for outdoor learning. The plant palette was at a preliminary design stage and would include northwest native plants, rushes and grasses in raingardens and a low-maintenance meadow mix. Tamela Van Winkle said they were ready to transition from the schematic to the design phase of the project. They would consider realigning the Baker Hill Road intersection but it may prove too expensive. A B

Wallace Cottages PLN50589B PRE

Before Kelly Tayara introduced the project, Alan Grainger confirmed to Susan Lick that the Design Review Board did receive her emailed comments. Kelly Tayara said Wallace Cottages was a 19 lot, single family Housing Design Demonstration Project (HDDP), nearing final site design. Dave Smith of Central Highlands described aspects of the innovative site design. He

emphasized pedestrian connectivity within the core through pathways between neighboring properties through agreements and easements. Wallace Cottages would have an 18', 2 -way street that looped, increasing traffic circulation. They asked city engineers to approve narrower street design to cut down on impervious surface. Their original design included a hammerhead road end but city engineers preferred a cul-de-sac for fire access, so they revised the plan. The size of the lots was smaller which allowed Central Highlands to create a ½ acre of open space – double the requirement. Wallace Cottages, Duane Cottages and Madison Hamlet would have a commonality of Homeowners Associations, allowing joint participation in the playground and pea patch. Wallace Cottages would have an electric bicycle station as well as a recycle station. Dave Smith noted the stormwater line on Madison Avenue had direct discharge to Eagle Harbor but the diameter of the line was different in various parts of the line. Central Highlands proposed improvements to a portion of the line and neighboring Madison Avenue Retirement Center was interested in participating in this improvement. This would result in a reduction of on-site water detention. After Central Highlands upgrades sewer and storm lines the city has agreed to take over the system.

Alan Grainger asked Kelly Tayara if it was reasonable to focus only on this project in today's review and she replied that there were 5 projects proposed for construction between Madison Avenue and Nakata Avenue. Initially, the city wanted to review projects individually but saw the value of approaching infrastructure requirements more holistically. City public works, development engineers, survey and sewer departments came together to assess stormwater and sewer needs in the area. They don't want to impede development but make sure one project didn't adversely affect another. The continued primary concern was the opening up of Wallace Way. Both Central Highlands and residents in nearby neighborhoods agreed that they didn't want a connection from Wallace Way through to Madison Avenue. Alan Grainger said traffic circulation issues became more complicated with HDDP developments. He asked that the Design Review Board see the other projects being developed alongside Wallace Cottages so they had a better vision of what was going on. Kelly Tayara said she would bring a composite map of the developments in the area to the next meeting. Ron Peltier said the Design Review Board might make a recommendation to City Council that they look at projects cumulatively. Alan Grainger replied he'd like to discuss this with the Planning Director before addressing City Council.

Alan Grainger said his first choice for traffic access would be if density increased, developments be accessed from streets such as Madison Avenue with higher capacity and less destruction to existing neighborhoods. His second choice would be that the development not have a through connection and access be limited to just one project, not multiple projects. Jim McNett added that they needed to look at the impact of HDDP on surrounding neighborhoods.

Review and Approval of Minutes – February 17, 2017

The minutes were reviewed.

Motion: I move to approve the minutes of February 17, 2017.
Dunstan/Boon: The motion carried 5-0.

Adjourn
The meeting adjourned at 5:38 pm.

Approved by:

Alan Grainger, Chair

Lara Lant, Administrative Specialist

F
ISLAND

CITY OF BAINBRIDGE ISLAND
DESIGN REVIEW BOARD – REGULAR MEETING
March 6, 2017

EASE PRINT

ne	Affiliation	Phone/ E-Mail	Join ListSe Yes/N
CHARLES SCHMID	ABC	ceschmid@attinet	
Ian Gringer	DRB		
JOE DUNSTAN	DRB		
Jim McNeff	DRB		
JEFF BOON	DRB		
JASON WILKINSON	DRB		
Robert Boschie II	citizen	rgdimages@aol.com	
Ron Peltier	City Council	rpeltier@bainbridgewa.gov	
RICH FRANKO	MITHUN	richardf@mithun.com	
TAMELA VANWINKLE	BISD	tvanwinkle@BISD.303.org	
Sick Twietmeyer	BI Review		no/C
Christian Runge	Mithun	christianr@mithun.com	NO
Michael Fiegenschuh	Mithun	michaelf@mithun.com	NO
JOHN GRAY	BISD	JohnGray@BISD303.org	No
CHARLES DEMMING	BISD	cdemming@bisd303.org	No
Heather Wright	CORA	hwright@bainbridgeparks.net	
Doug Hotchkiss	Resident Grow Ave	dkhotchkiss@MSN.com	Yes
DAVID STARKMAN	RESIDENT - TAHUNIC	STARKMANCLAN@GMAIL.COM	YES

SLAND

CITY OF BAINBRIDGE ISLAND
DESIGN REVIEW BOARD – REGULAR MEETING
March 6, 2017

ASE PRINT

ıe	Affiliation	Phone/ E-Mail	Join ListSer Yes/No
etty Wiese	Resident - NAKATA	bettywiese@comcast.net	No
Susan Lick	resident - Taurnic PL NW	Cslick47@gmail.com	no
K Smith	Project Manager	nick.centralhighlands@gmail.com	
avid Smith	PRINCIPAL		
AREY KEENAN	✓	BKEENAN1563@GMAIL.COM	Yes
llie Nash	NAKATA RESIDENT	bnash@q.com	YES
anette Alexander	nakata Ave. resident	jalexgd@soundcl.com	yes

Blakely Elementary School
Design Guidelines for Commercial and Mixed Use Projects
City of Bainbridge Island

DRB Presentation
9/11/2017

Application Design Guidelines				
#	Intent	Guideline	Design Response	DRB Action (Y/N)
1	To develop variation in façade treatment to provide visual interest	Vary building materials or patterns to produce variations in texture.	Masonry,varigated metal panels and the articulation of fenestration is varied along each building elevations	
2	To modulate the scale of building masses	Building elevations shall be vertically modulated in no more than 20' increments or horizontally in more than 30' increments. Modulation is defined as a change in plane or articulation (such as bands, cornices, setbacks or changes in material).	Each building elevation is modulated with changes of plane or material to reduce the scale of the building masses. Certain large volume spaces such as the gym and commons will utilize texture and fenestration to modulate scale.	
3	To limit the visual impact of blank walls and facades and better assure aesthetic appeal	Blank walls shall not be visible to public spaces. Blank facades should otherwise be limited to the back of the building or where required by building code. Treatments to alleviate blank walls shall be similar in materials to facades normally in view of the public.	The only blank walls in the project are located where program requirements dictate. These wall have material and/or fenestration articulation to mitigate 'blank' effect.	
4	To establish visually prominent ground floor facades	The first floor of multi-storied buildings shall be taller than upper floors. Minimum ceiling heights shall be at least 10' to allow transom or larger display windows. Other elements such as transom windows, canopies, cornices and prominent entries are encouraged. First floor uses shall be pedestrian oriented and include substantial shop windows. Display windows on the first floor of retail and commercial buildings should be the predominate surface of the first floor	The first floor height of the multi-story portion of the building is greater than 10'. There are large windows to promote natural daylighting in the project. The main entrance has a prominent canopy.	
5	To maintain pedestrian scale along facades facing public ways	Facades facing public ways shall incorporate setbacks or articulation that establishes a pattern of bays or window openings. Facades shall include features such as display windows, columns or bays, recessed entries or canopies or other recesses. The use of a variety of materials at the sidewalk level is encouraged. Multiple building entrances are encouraged.	The front canopy and fenestration articulation at the front is scaled for pedestrians.	
6	To maintain the pedestrian activities by encouraging continuous frontages along sidewalks	Where parking fronts onto a public street, the maximum separation between buildings shall be 80 feet. Greater separations are permitted if landscape setbacks are increased or other design features such as low walls, trellises and public spaces are created along the street.	N/A	
7	To reduce overall scale of the building into multiple building masses.	Facades of 128' in length shall be separated by pedestrian passage or open space. Passages should be at least 12' wide and two stories in height if covered. Façade setback should be expressed at the roof line by changes in plane. Passage should connect to public open space.	The building is separated into a number of distinctive wings, separated by a central spine that is articulated in plan, section and elevation from the adjacent building masses.	

Application Design Guidelines				
#	Intent	Guideline	Design Response	DRB Action (Y/N)
8	To encourage the creation of public outdoor spaces.	Building setbacks may be increase for the creation of public outdoor seating areas. Entry alcoves and small outdoor spaces may be located between the building and sidewalk.	Public space, including play space and informal seation is provided at the front of the building.	
9	To soften the impact of the built environment.	Encourage public pedestrian passageways and vegetation between buildings.	Vegetation separated the school from all other buildings, on all sides.	
10	To encourage compatibility of development with both community and neighborhood characteristics.	Building designs should respond to nearby buildings that meet the upgraded design standards by using shared elements, materials or massing.	The building is situated where no neighboring buildings are visible and visa-versa.	
11	To minimize the intrusiveness of commercial signage.	Signage, corporate colors and other icons of the business may not dominate the exterior of the building, including canopies and separate outdoor structures covering activities associated with the business. Color should be used to express changes in detail or materials but exterior building and structure colors may not be used as signs, or as the extension of signs.	School identification and way finding signage will be incorporated into the architectural expression.	
12	To improve the pedestrian environment around buildings and minimize curb cuts	Where a drive through facility is allowed, drive through must be in conjunction with a parking lot that serves the same business, must be to the side or rear of the building and should not be visible from the public streets. Drive through should consist of no more than a single vehicle lane.	No drive through.	
13	To provide pedestrian access to buildings.	Provide multiple entrances along streets. Pedestrian passageways are encouraged.	For security purposes, a single main entrance is provided for the building. There is a secondary entrance to select spaces for after-hours usage.	
14	To provide weather protection for pedestrians	Recessed entries and/or overhead weather protection above the sidewalk entrances shall be used.	All primary entrances are protected from the weather with canopies.	
15	To maintain smaller scale commercial buildings.	Buildings in excess of 10,000 square foot footprints should be visually split into two or more distinct elements.	The building is split into a number of wings to break down the scale of the building.	
16	To reduce the visual impact of parking areas.	Create small parking clusters connected by vegetated landscaping and pedestrian walkways. Internal streets that connect or serve parking areas shall be designated as streets with sidewalks, planters and pedestrian scale lighting.	Parking and drop off is separated with vegetated landscaping between pedestrian walkways.	

LIGMAN LIGHTING USA

LUMINAIRE SPECIFICATION

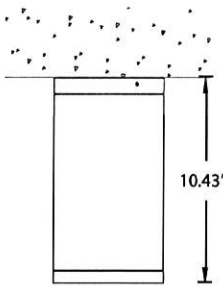
Head Office: Tel: 503-645-0500
7144 NW Progress Ct Fax: 503-645-8100
Hillsboro, Oregon 97124
www.ligmanlightingusa.com

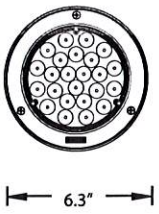
IP65 : Suitable for Wet Locations
IK10 : Impact Resistant (Vandal Resistant)

UTA-80401

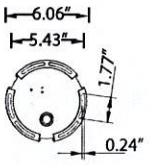
Tango 5 cylindrical surface exterior downlight LED

A range of cylindrical surface mounted exterior downlight luminaires. Developed for interior and exterior lighting using a variety of different lamp options. These include compact fluorescent lamps, and discharge lamps.
Low copper content die-cast aluminum housing and aluminum bottom frame with integral anti-glare baffles. Stainless steel screws. Durable silicone rubber gasket and clear toughened glass. Single cable entry. Housing is treated with a chemical chromatized protection before powder coating, ensuring high corrosion resistance. Integral control gear. Anodized high purity aluminum reflector.

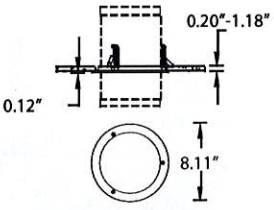




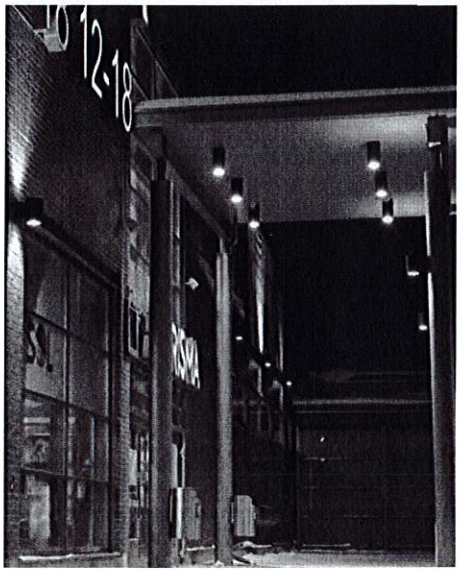
Bottom view



Mounting detail



Mounting ring for semi recessed installation



Physical Data

Length: 6.3"
Height: 10.43"
Weight: 6.8 lbs

Lamp

☐ 30w - 2075lm - White - LED

Beam Angle (Please Specify)

☐ N - Narrow Beam: 14 Deg
☐ M - Medium Beam: 24 Deg
☐ W - Wide Beam: 40 Deg

LED Color (Please Specify)

☐ W27 - 2700K
☐ W30 - 3000K
☐ W40 - 4000K

Voltage (Please Specify)

☐ 120V
☐ 277V
☐ Other _____

Color (Please Specify)

☐ 01-Black - RAL 9011
☐ 02- Dark Grey - RAL 7043
☐ 03-White - RAL 9003
☐ 04 - Metallic Silver - RAL 9006
☐ 05-Matt Silver - RAL 9006
☐ 07- Custom - RAL _____
☐ 06-Bronze - RAL 6014

Lens

☐ F - Frosted Lens

☐ C - Clear Lens

☐ SCE - Surface Conduit Entry Box - ☐ 1/2" Conduit ☐ 3/4" Conduit

☐ Mounting Ring

☐ HGT - Specify Custom Height _____ft

Ordering Example : UTA - 80401 - White-30w - N - W30 - 120v - Options

PROJECT: _____ DATE: _____

TYPE: _____ QUANTITY: _____ NOTE: _____

FIXTURE TYPE: AD-01

Rev: 11/13
Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information

LED Ceiling-mounted downlights - narrow beam

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

Housing: One piece die-cast aluminum for direct attachment to a 3 1/2" or 4" recessed octagonal wiring box using a mounting strap. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Tempered clear glass, retained by a one piece, die-cast aluminum frame. Frame is secured by threading into luminaire housing. Fully gasketed for weather tight operation using a molded silicone rubber gasket.

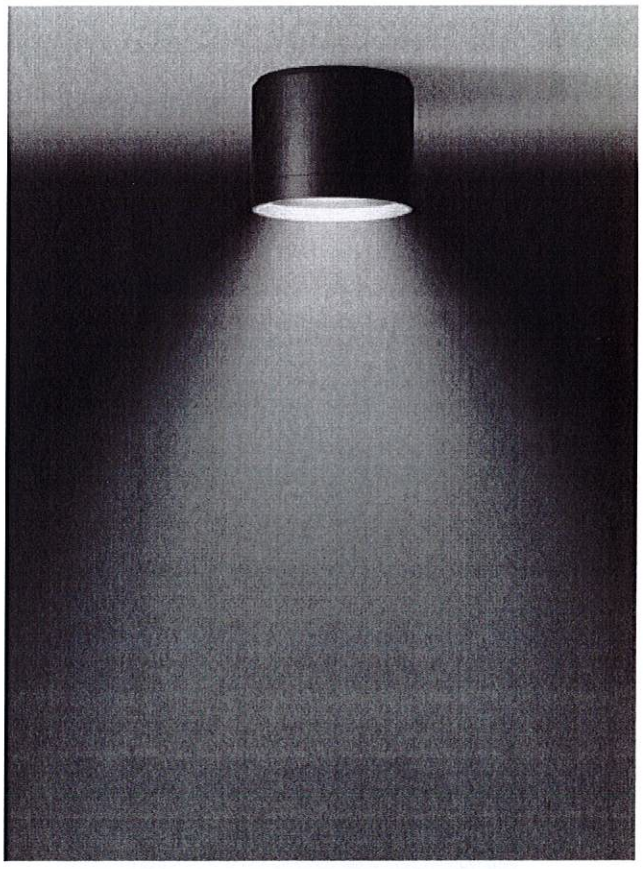
Electrical: 26W LED luminaire, 31 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an >80 CRI. Available in 4000K (>80 CRI); add suffix K4 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: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. 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, suitable for wet locations. Protection class IP65

Weight: 5.1 lbs.

Luminaire Lumens: 1805
Tested in accordance with LM-79-08



	Lamp	β	A	B
66 978	26W LED	21°	7½	6⅛

β = Beam angle

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
©copyright BEGA-US 2016 Updated 01/16

FIXTURE TYPE: AD-02

LED Ceiling-mounted downlights - narrow beam

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

Housing: One piece die-cast aluminum for direct attachment to a 3 1/2" or 4" recessed octagonal wiring box using a mounting strap. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum alloy.

Enclosure: Tempered clear glass, retained by a one piece, die-cast aluminum frame. Frame is secured by threading into luminaire housing. Fully gasketed for weather tight operation using a molded silicone rubber gasket.

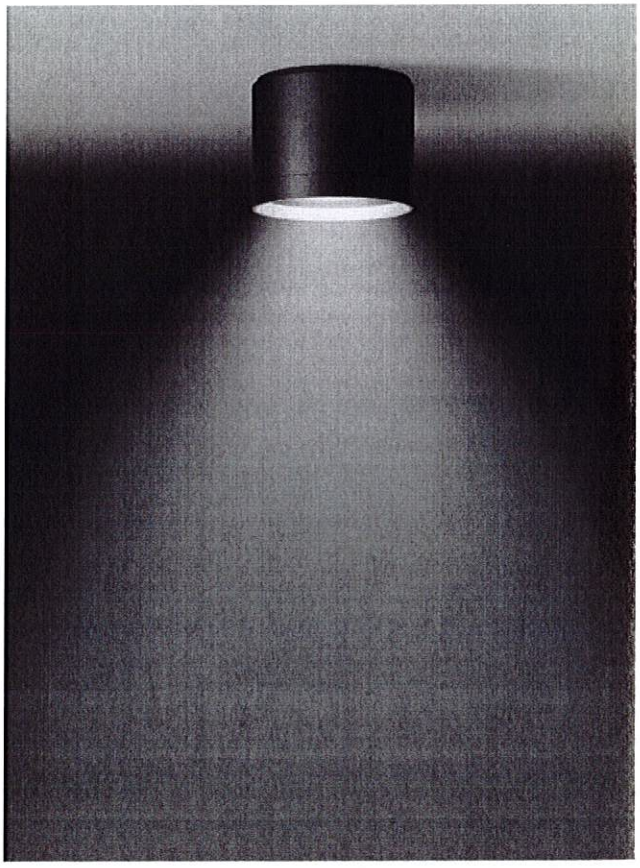
Electrical: 13.1W LED luminaire, 15 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 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: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. 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, suitable for wet locations. Protection class IP65

Weight: 5.0 lbs.

Luminaire Lumens: 903



Ceiling mounted downlights · **narrow beam**

	Lamp	β	A	B
66 981	13.1 W LED	13°	6	5

β = Beam angle

BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com
©copyright BEGA-US 2016 Updated 03/16

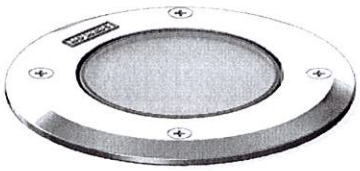
FIXTURE TYPE: AD-02

Inground

UHA-60385

Harrier 1 Inground LED

LIGMAN
LIGHTING USA



A top range of inground uplights with a choice of round or square stainless steel or painted aluminum front rings. This 4" inground luminaire is provided with a low output LED board and integral driver, and is suitable as a marker light for illuminating shopping and pedestrian areas, parks, gardens and sculptures. This low glare luminaire is provided with a 0.4" thick tempered glass and is rated as a walkover luminaire. The glass has a special wrap around high temperature silicone gasket that provides additional ingress protection. A non slip lens is available as an option. This non slip coating is a proprietary coating that is infused into the glass to provide excellent traction in wet conditions.
To ensure efficient drainage, gravel must be used to a depth of 17" beneath the housing, and should also be placed around the luminaire. Low copper content die-cast aluminum housing with high corrosion resistance. The 0.24" thick front ring is available in grade 316 stainless steel or aluminum. Stainless steel fasteners in grade 316. Power is provided through a single PG1/2" watertight cable gland.
UF-B 600v underground feeder cable is recommended to provide power to the luminaire. Standard recessing box in high density polyethylene.

NOTE: This luminaire is provided with a remote mounted driver. A waterproof remote driver box can be provided as an option and should be specified.

Physical Data

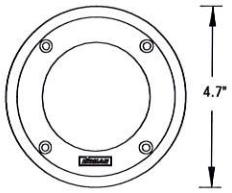
Length • 4.7"

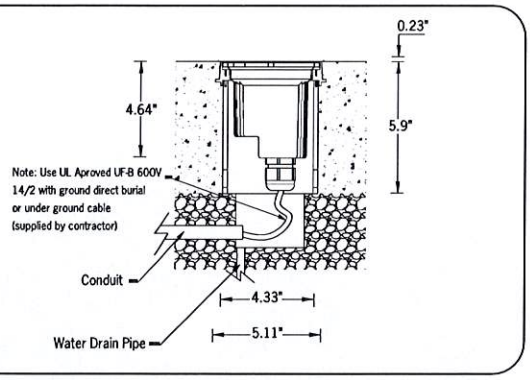
Height • 5.9"

Weight • 1.1 lbs (A) 1.5 lbs (S)

IP67 • Suitable For Wet Locations

IK10 • Impact Resistant (Vandal Resistant)





Aluminum Casting
Less than 0.1% copper content – Marine Grade LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets.** Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0 - U1 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides **exceptional light control and precise distribution of light.**
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp	Frame	Beam	LED Color	Finish Color
8w LED 389 Lumens	A • Aluminum [Choose Finish Color] S • Stainless Steel	N • Narrow - 20° M • Medium - 30° W • Wide - 50°	W27 • 2700K W30 • 3000K W40 • 4000K	01 - Black - RAL 9011 02 - Dark Grey - RAL 7043 03 - White - RAL 9003 04 - Metallic Silver - RAL 9006 05 - Matte Silver - RAL 9006 06 - Bronze - RAL 6014 07 - Custom RAL

Options (Consult Factory for Pricing)

TLT - LED 5' Tilt Module

ADA - Anti-Slip Lens

F - Frosted Lens

A80191 - Remote Driver Box

Ordering Example : UHA - 60385 - 8w - A - N - W30 - 02 - 120/277v

	Lamp	Frame	Beam	LED Color	Color	Voltage	Options
UHA	60385	8w LED					
		S Stainless Steel A Aluminum (Choose Color)	N Narrow M Medium W Wide	W27 2700K W30 3000K W40 4000K	01 Black 02 Dark Grey 03 White 04 Metallic Silver 05 Matte Silver 06 Bronze 07 Custom RAL	120/277v Other (Specify)	TLT LED 5' Tilt Module A80191 Remote Driver Box ADA Anti- Slip Lens F Frosted Lens

PROJECT: DATE: QUANTITY:

TYPE: NOTE:

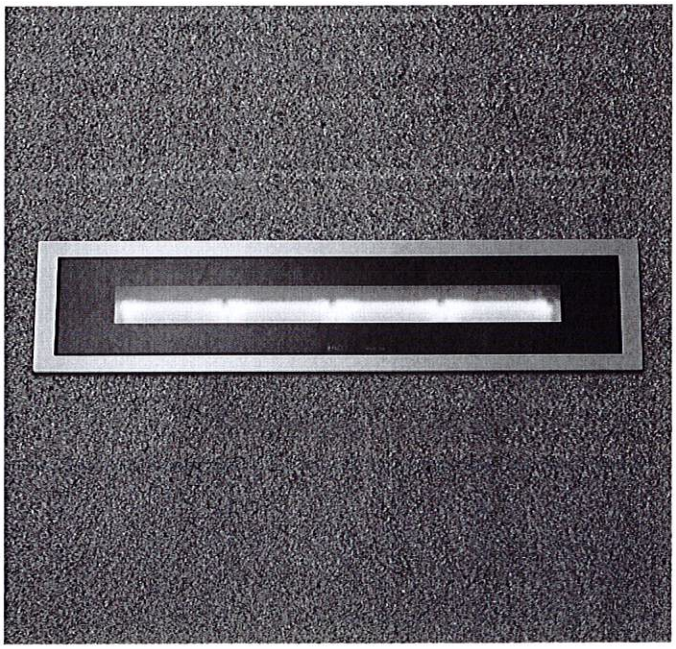
Head Office:
7144 NW Progress Ct Tel: 503-645-0500

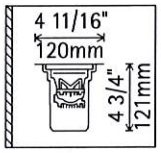
FIXTURE TYPE: AG-01

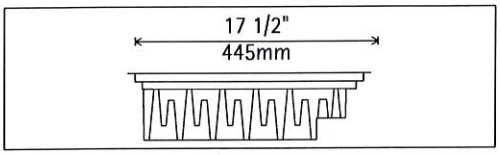
ERCO

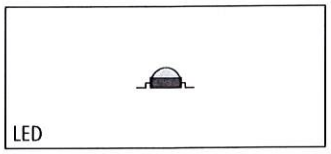
Site In-ground luminaire

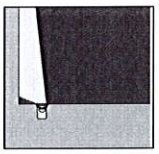
Grazing light wallwasher

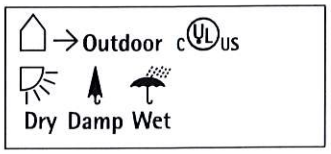






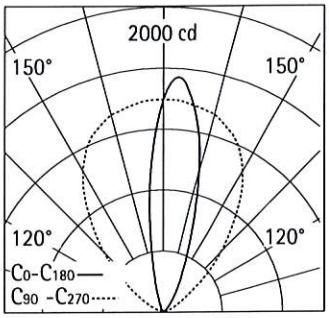






32808.023
LED 24W 2520lm 3000K warm white
Dimmable
Version 2
Covered mounting detail

Product description
For mounting in accessories.
Housing: polymer, black.
Control gear, 60Hz, 120V dimmable, 277V switchable. Longitudinally watertight cable AWG14, L 31 1/2" / 800mm.
LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer. ±10° tilt. Softec lens.
Cover frame: stainless steel. Safety glass: 3/8" / 10mm, clear.
Installation with separate connection sleeve.
Mounting in recessed housing: can be driven over in vehicles with pneumatic tyres. Load 4500lb.wt / 20kN.
Mounting in hollow floor: mounting kit to be ordered separately.
120V: Dimming with external dimmers possible (trailing edge).
Suitable for wet location (IP68): dust-proof.
Weight 6.94lbs / 3.15kg



Technical data

Luminous flux of the luminaire	1058lm
Connected load	31W
Luminaire efficacy	34lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E
Temperature on the cover glass	126°F / 52°C

For your regional contact in the ERCO Sales network click here
www.erco.com/contact

© ERCO GmbH 2017

Technical region: 120V/60Hz, 277V/60Hz
We reserve the right to make technical and design changes.
Edition: 11.04.2017
Current version under
www.erco.com/32808.023

FIXTURE TYPE:
AG-02

ERCO

Site In-ground luminaire

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.99	0.97	0.95	0.92	0.98	0.97	0.95	0.92	0.98	0.97	0.95	0.92

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF	LMFxRSMFxLLMFxLSF
MF	Maintenance Factor
LMF	Luminaire Maintenance Factor
RSMF	Room Surface Maintenance Factor
LLMF	Lamp Lumens Maintenance Factor
LSF	Lamp Survival Factor
P	Room pure
C	Room clean
N	Room normal
D	Room dirty

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

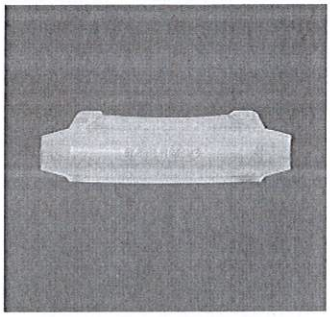
All technical data are subject to industry standard tolerances.
See also www.erco.com/erco-led

FIXTURE TYPE:
AG-02

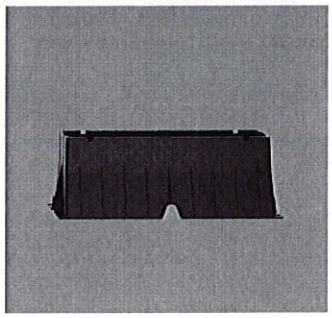
ERCO

Site In-ground luminaire

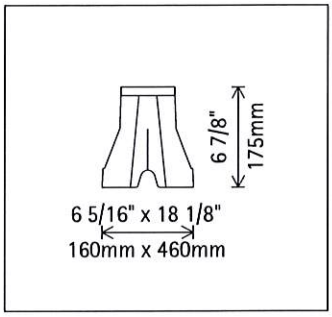
Accessories

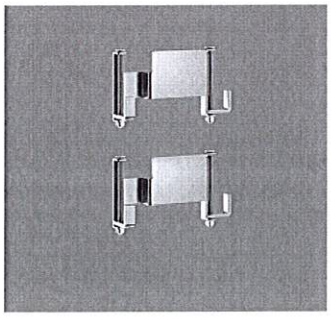


33958.023
Connection sleeve
for cable diameters of 0.25" - 0.80".
Polymer conduit, two-part PUR cast resin.
Length 5 15/16" / 150mm.
Width 1 1/4" / 32mm.
Height 2 3/8" / 59mm.
Weight 0.99lbs / 0.45kg

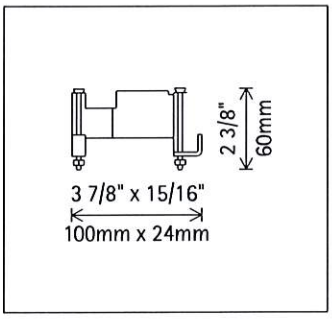


33295.000
Recessed housing
Polymer, black.
4 cable entries.
Load 4500lb.wt / 20kN.
Weight 1.88lbs / 0.85kg





33293.000
Mounting kit
Mounting in hollow floors.
2 mounting brackets: stainless steel.
Clamp extension 1/16" - 1 13/16" / 1-46mm.
Load 4500lb.wt / 20kN.
Floor aperture: 16 5/8" - 3 7/8" / 422mmx98mm
Weight 0.30lbs / 0.14kg

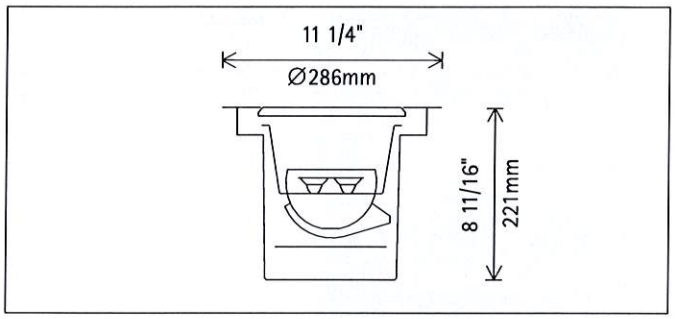


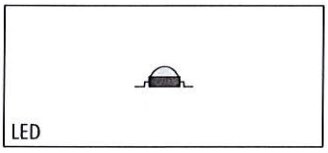
FIXTURE TYPE:
AG-02

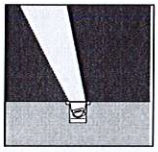
ERCO

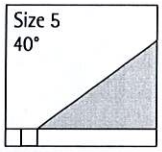
Tesis In-ground luminaire

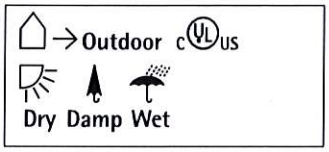
Directional luminaire





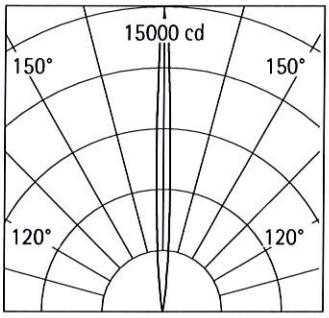






35110.023
LED 4W 420lm 3000K warm white
0-10V dimmable
Version 8
Covered mounting detail
Spherolit lens, narrow spot

Product description
Housing: polymer, black.
Control gear 120V, 60Hz, dimmable.
Longitudinally watertight cable 5xAWG14, L 31 1/2" / 800mm.
LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer. 0-30° tiltable, rotatable through 360°.
Optical cut-off 40° from horizontal.
Screw-fastened cover ring with flush safety glass: stainless steel. Safety glass: 9/16" / 15mm, clear.
Installation with separate connection sleeve.
Mounting in recessed housing: can be driven over in vehicles with pneumatic tyres. Load 11240lb.wt / 50kN.
Mounting in hollow floor: mounting kit to be ordered separately.
Dimming with external dimmers possible (0-10V).
Suitable for wet location (IP68): dustproof.
Weight 12.06lbs / 5.47kg
Available from 2nd quarter 2017



h(ft)	E(fc)	D
		5°
15	65	1'4"
12	102	1'1"
9	181	0'9"
6	408	0'6"
3	1633	0'3"

Technical data

Luminous flux of the luminaire	301lm
Connected load	6W
Luminaire efficacy	50lm/W
Color deviation	2 SDCM
Color rendition index	CRI>90
Lumen maintenance	L90/B10 ≤50000h
LED failure rate	0.1% ≤50000h
LMF	E
Temperature on the cover glass	86°F / 30°C

For your regional contact in the ERCO Sales network click here
www.erco.com/contact

© ERCO GmbH 2017

Technical region: 120V/60Hz
We reserve the right to make technical and design changes.
Edition: 11.04.2017
Current version under
www.erco.com/35110.023

FIXTURE TYPE:
AG-03

ERCO

Tesis In-ground luminaire

Planning data

Cleaning (a)	1				2				3			
Ambient conditions	P	C	N	D	P	C	N	D	P	C	N	D
LMF	0.96	0.94	0.90	0.86	0.93	0.91	0.86	0.81	0.92	0.90	0.84	0.79
RSMF	0.91	0.83	0.68	0.51	0.90	0.81	0.67	0.50	0.90	0.81	0.67	0.50

Hours of operation (h)	1000	5000	10000	20000	30000	40000	50000
LLMF	1.00	0.99	0.98	0.96	0.94	0.92	0.90
LSF	1	1	1	1	1	1	1

MF	LMFxRSMFxLLMFxLSF
MF	Maintenance Factor
LMF	Luminaire Maintenance Factor
RSMF	Room Surface Maintenance Factor
LLMF	Lamp Lumens Maintenance Factor
LSF	Lamp Survival Factor
P	Room pure
C	Room clean
N	Room normal
D	Room dirty

Technical data based on international standards and directives

IEC 60598	Luminaires – Parts 1 + 2: General requirements, particular requirements and tests
IEC 62031	LED modules for general lighting – Safety specifications
IEC 62471	Photobiological safety of lamps and lamp systems
UL 1598	Luminaires
UL 1574	Standard for Track Lighting Systems
UL 8750	Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
IES LM-79-08	Electrical and Photometric Measurements of Solid-State Lighting Products
IES LM-80-08	Measuring Lumen Maintenance of LED Light Sources
CIE 13	Method of measuring and specifying color rendering properties of light sources

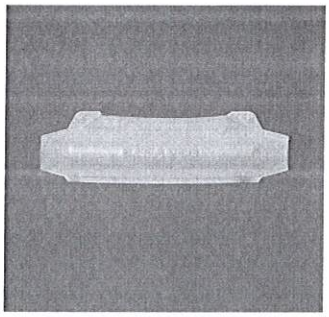
All technical data are subject to industry standard tolerances.
See also www.erco.com/erco-led

FIXTURE TYPE:
AG-03

ERCO

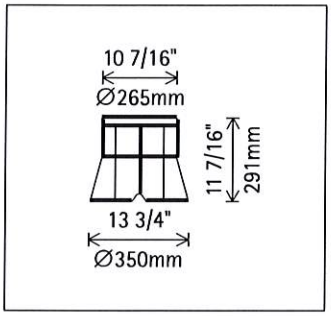
Tesis In-ground luminaire

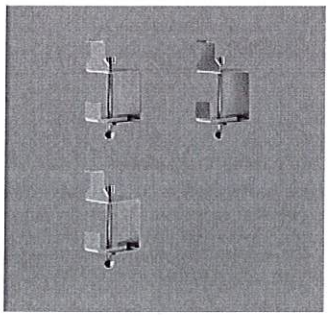
Accessories



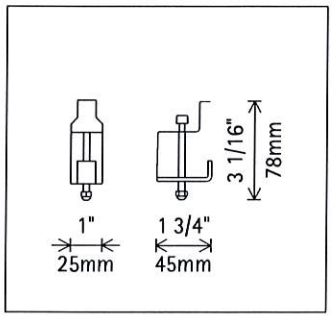
33958.023
Connection sleeve
for cable diameters of 0.25" - 0.80".
Polymer conduit, two-part PUR cast resin.
Length 5 15/16" / 150mm.
Width 1 1/4" / 32mm.
Height 2 3/8" / 59mm.
Weight 0.99lbs / 0.45kg

33964.000
Recessed housing
Polymer, black.
4 cable entries.
Load 11240lb.wt / 50kN.





33988.000
Mounting kit
Mounting in hollow floors.
3 mounting brackets: stainless steel.
Clamp extension 7/16" - 1 13/16" / 11-46mm.
Load 4500lb.wt / 20kN.
Floor aperture:
Size 5: ø 10 1/16" / 255mm
Size 7: ø 11 9/16" / 293mm



FIXTURE TYPE:
AG-03

Inground

ULA-60001

Light Linear LA 1 Inground

LIGMAN
LIGHTING USA

Light Linear LA inground family is a range of small profile linear product that complements the Light Linear LA recessed wall, surface wall and pendant luminaires. The inground fixture is available with a selection of optics, as well as a forward throw asymmetric distribution that is achieved with an internally tilted gear tray. This walkover rated luminaire is available with RGBW color changing, as well as static white color in 2700K, 3000K and 4000K formats. The Light Linear LA inground is provided with a concrete pour or dirt mounting recessing box as a standard. This recessing box can be shipped to the jobsite ahead of time, if requested.

The Light Linear LA is suitable for wall grazing, wall washing, column lighting and uplight applications and can be used in many applications including; commercial, historic, or modern architectural interiors and exteriors. Two different lengths are provided allowing the luminaire installation to be tailored exactly to the architectural structure. The luminaire is provided with an integral driver. A remote driver can be provided, please contact the factory for more details.
Options of clear or frosted tempered 8mm thick glass with a load rating of 1,100lb.

Physical Data

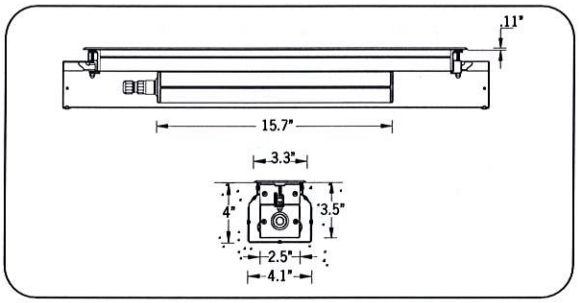
Length • 25.8″

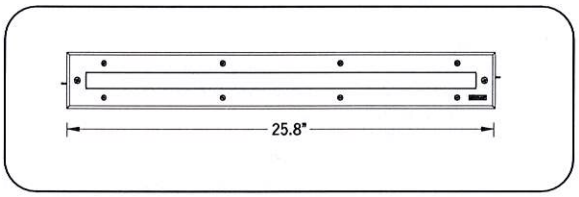
Height • 4″

Weight • 10 lbs

IP67 • Suitable For Wet Locations

IK09 • Impact Resistant (Vandal Resistant)





Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets.** Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Frame & Hardware.
Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides **exceptional light control and precise distribution of light.**
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp	Beam	LED Color
28w LED 2847 Lumens	VN • Very Narrow 12° N • Narrow 14° M • Medium 24° W • Wide 44° E • Elliptical 18°x35°	W27 • 2700K W30 • 3000K W40 • 4000K

Options (Consult Factory for Pricing)

F - Frosted Lens

Ordering Example : ULA - 60001 - 28w - N - W30 - 120/277v - Options

	Lamp	Beam	LED Color	Voltage	Options
ULA	60001	28w LED			

Beam		LED Color		Voltage	Options	
VN	Very Narrow	W27	2700K	120/277v	F	Frosted Lens
N	Narrow	W30	3000K	Other (Specify)		
M	Medium	W40	4000K			
W	Wide					
E	Elliptical					

PROJECT: DATE: QUANTITY:

TYPE: NOTE:

Head Office:
7144 NW Progress Ct Tel: 503-645-0500

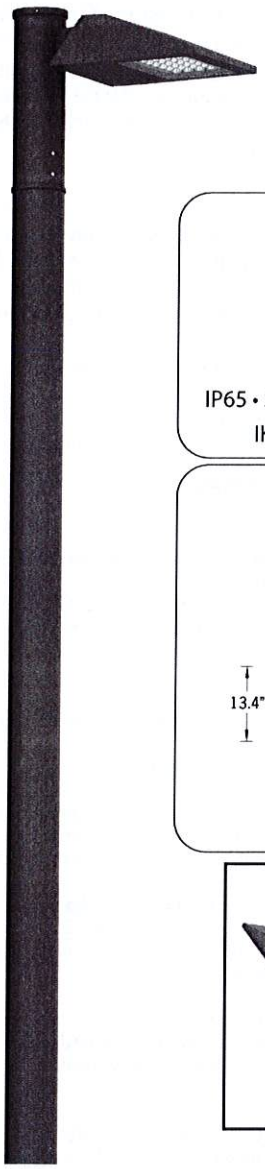
FIXTURE TYPE: AG-04

Street Light

UVK-90001

Vekter 5

LIGMAN
LIGHTING USA



A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements.
This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.
The Vekter can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture.
Type V distributions in medium, wide, very wide & extra wide are also available.
These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting.
This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.
Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems.
For 55w version 5000lm, see UVK-90002

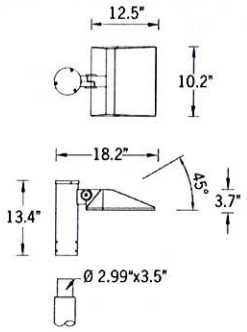
Physical Data

Length • 18.2"

Weight • 16.7 lbs

IP65 • Suitable For Wet Locations

IK08 • Impact Resistant



Aluminum Housing
Less than 0.1% copper content – Marine Grade LM6 Aluminum provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets** with integrated waterproof barriers. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Bollard is powdercoated internally for additional protection.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp
40w LED
3836 Lumens
for M,W,VW & EW Beams
[2x40w see UVK-90011]
[2x55w see UVK-90012]

Beam - Type V
M • Medium 32°
W • Wide 52°
VW • Very Wide 65°
EW • Extra Wide 108°

T2 • Type II Distribution - 3367lm
T3 • Type III Distribution - 3385lm
T4 • Type IV Distribution - 3440lm

LED Color
W27 • 2700K
W30 • 3000K
W40 • 4000K

Finish Color
01 - Black - RAL 9011
02 - Dark Grey - RAL 7043
03 - White - RAL 9003
04 - Metallic Silver - RAL 9006
05 - Matte Silver - RAL 9006
06 - Bronze - RAL 6014
07 - Custom RAL

Options (Consult Factory for Pricing)

OS • Occupancy Sensor
HSS • House Side Shield
F • Frosted Lens

Ordering Example : UVK - 90001 - 40w - T2 - W30 - 02 - 120/277v - Options

	Lamp	Beam	LED Color	Color	Voltage		Options	
UVK	90001	40w LED						

M	Medium	W27	2700K	01	Black	120/277v	OS	Occupancy Sensor
W	Wide	W30	3000K	02	Dark Grey	Other (Specify)	HSS	House Side Shield
VW	Very Wide	W40	4000K	03	White		F	Frosted Lens
EW	Extra Wide			04	Metallic Silver			
T2	Type II Distribution			05	Matte Silver			
T3	Type III Distribution			06	Bronze			
T4	Type IV Distribution			07	Custom RAL			

PROJECT: DATE: QUANTITY:

TYPE: NOTE:

Head Office:
7144 NW Progress Ct Tel: 503-645-0500

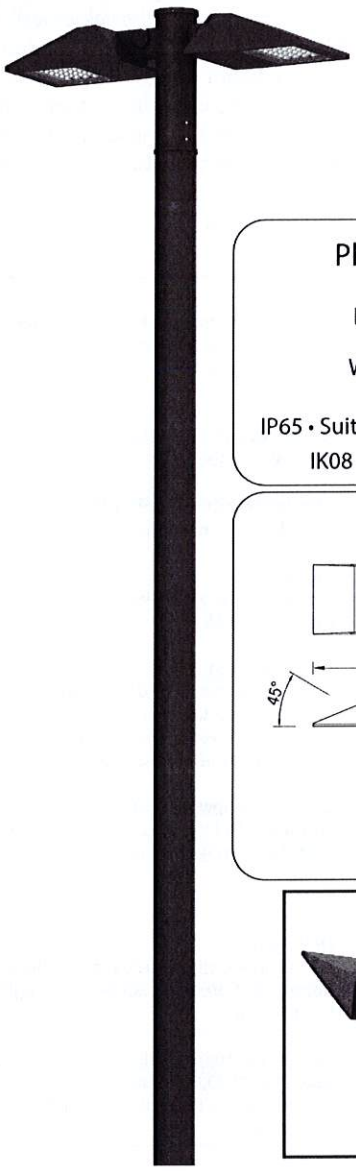
FIXTURE TYPE: AP-01

Street Light

UVK-90011

Vekter 6

LIGMAN
LIGHTING USA



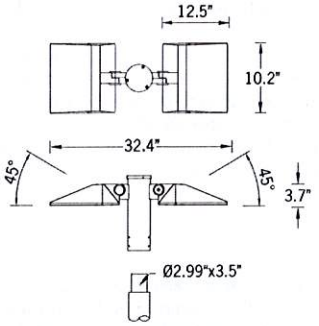
A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements.
This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.
The Vekter can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture.
Type V distributions in medium, wide, very wide & extra wide are also available.
These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting.
This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.
Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems.
For 2x55w version 9972lm, see UVK-90012

Physical Data

Length • 32.4"

Weight • 29 lbs

IP65 • Suitable For Wet Locations
IK08 • Impact Resistant



Aluminum Housing
Less than 0.1% copper content – Marine Grade LM6 Aluminum provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose" long life high temperature memory retentive silicon gaskets** with integrated waterproof barriers. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Bollard is powdercoated internally for additional protection.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp
2x40w LED
2x3836 Lumens for M,W,VW & EW Beams
[40w see UVK-90001]
[55w see UVK-90002]

Beam - Type V
M • Medium 32°
W • Wide 52°
VW • Very Wide 65°
EW • Extra Wide 108°
T2 • Type II Distribution - 2x3367lm
T3 • Type III Distribution - 2x3385lm
T4 • Type IV Distribution - 2x3440lm

LED Color
W27 • 2700K
W30 • 3000K
W40 • 4000K

Finish Color
01 - Black - RAL 9011
02 - Dark Grey - RAL 7043
03 - White - RAL 9003
04 - Metallic Silver - RAL 9006
05 - Matte Silver - RAL 9006
06 - Bronze - RAL 6014
07 - Custom RAL

Options (Consult Factory for Pricing)

OS • Occupancy Sensor
HSS • House Side Shield
F • Frosted Lens

Ordering Example : UVK - 90011 - 2x40w - T2 - W30 - 02 - 120/277v - Options

		Lamp	Beam	LED Color	Color	Voltage		Options	
UVK	90011	2x40w LED							

Beam		LED Color		Color		Voltage	Options	
M	Medium	W27	2700K	01	Black	120/277v	OS	Occupancy Sensor
W	Wide	W30	3000K	02	Dark Grey	Other (Specify)	HSS	House Side Shield
VW	Very Wide	W40	4000K	03	White		F	Frosted Lens
EW	Extra Wide			04	Metallic Silver			
T2	Type II Distribution			05	Matte Silver			
T3	Type III Distribution			06	Bronze			
T4	Type IV Distribution			07	Custom RAL			

PROJECT: DATE: QUANTITY:

TYPE: NOTE:

Head Office:
7144 NW Progress Ct Tel: 503-645-0500

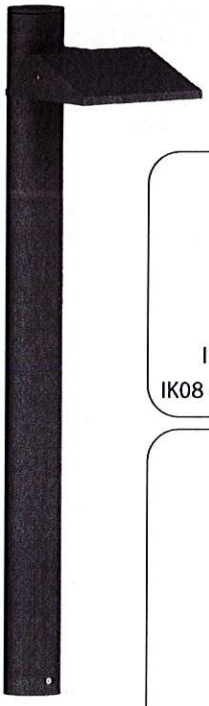
FIXTURE TYPE: AP-02

Bollard

UVK-10001

Vekter 3

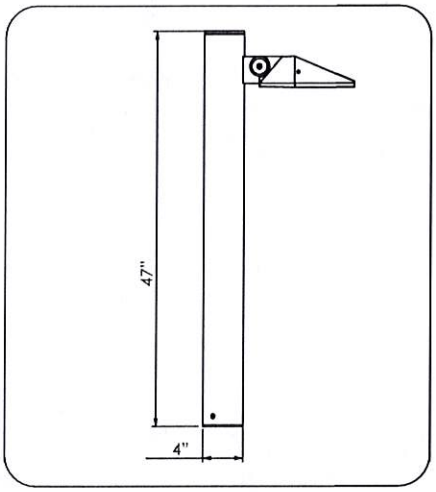
LIGMAN
LIGHTING USA

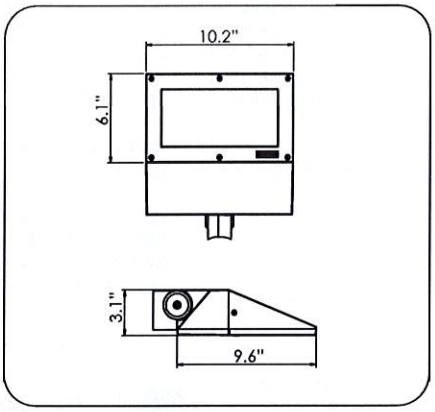


The Vekter bollard range is designed utilizing specially developed optics to provide exceptional spacing and uniformity. This fixture complements the Vekter wall and pole top luminaire. This lighe fixture is available in 20w and 27w configurations with a single or double head options with a selection of beam spreads that include Type II, III, IV and type V in medium, wide, very wide and extra wide distributions. This fixture range is unique in that designer's can be creative with the required light distribution and incorporate various optics within the same fixture. e.g using type II and type IV distribution optics within the same fixture.
Developed for lighting driveways, pathways and squares.

Physical Data

Length • 13.6"
Height • 47"
Weight • 16.5lbs
IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)





Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets.** Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp
20w LED
1932 Lumens for M,W,VW & EW Beams

Beam - Type V
M • Medium 31°
W • Wide 53°
VW • Very Wide 66°
EW • Extra Wide 110°
T2 • Type II Distribution - 1704lm
T3 • Type III Distribution - 1712lm
T4 • Type IV Distribution - 1679lm

LED Color
W27 • 2700K
W30 • 3000K
W40 • 4000K

Finish Color
01 - Black - RAL 9011
02 - Dark Grey - RAL 7043
03 - White - RAL 9003
04 - Metallic Silver - RAL 9006
05 - Matte Silver - RAL 9006
06 - Bronze - RAL 6014
07 - Custom RAL

Options (Consult Factory for Pricing)

HGT • Custom Height
NAT • Natatorium & High Salt Environments.
F • Frosted Lens

dering Example : UVK - 10001 - 20w LED - M - W30 - 02 - 120/277v - Options

	Lamp	Beam	LED Color	Color	Voltage	Options
UVK	10001	20w LED				

Beam		LED Color		Color		Voltage	Options	
M	Medium	W27	2700K	01	Black	120/277v	HGT	Custom Height
W	Wide	W30	3000K	02	Dark Grey	Other (Specify)	NAT	Natatorium Rated
VW	Very Wide	W40	4000K	03	White		F	Frosted Lens
EW	Extra Wide			04	Metallic Silver			
T2	Type II Distribution			05	Matte Silver			
T3	Type III Distribution			06	Bronze			
T4	Type IV Distribution			07	Custom RAL			

PROJECT: DATE: QUANTITY:

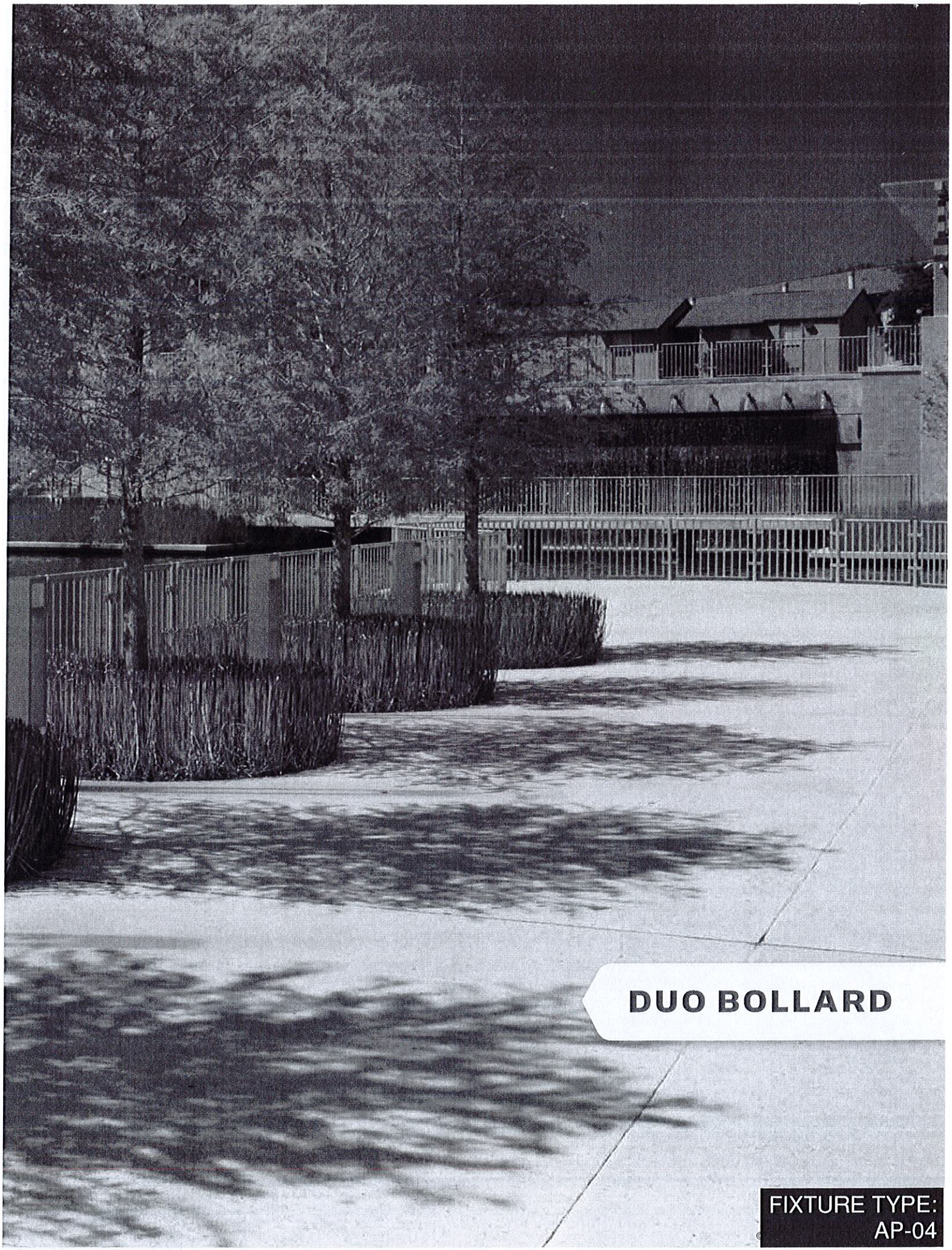
TYPE: NOTE:

Head Office:
7144 NW Progress Ct Tel: 503-645-0500

FIXTURE TYPE: AP-03

FIXTURE TYPE:
AP-04

© 2016 STRUCTURA INC.



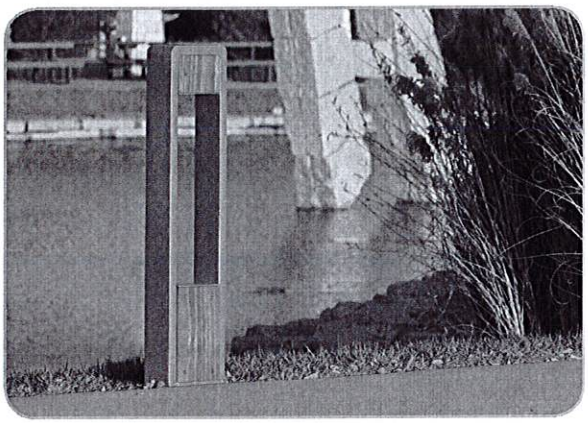
DUO BOLLARD

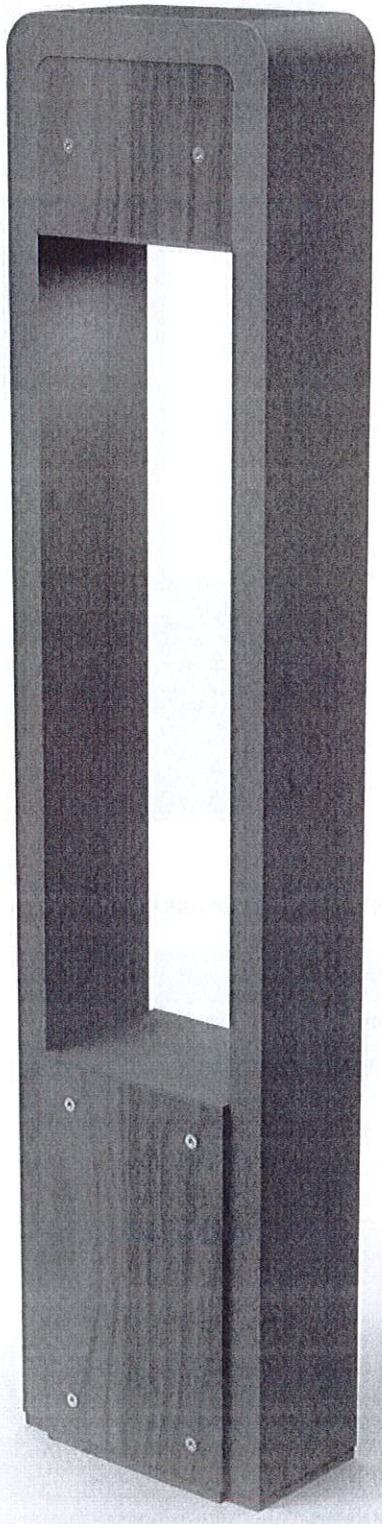
FIXTURE TYPE:
AP-04

Duo Bollard Duo Family Aluminum LED Bollard

FIXTURE TYPE: _____

PROJECT NAME: _____





Double aluminum extrusion uprights with wood or metal center accents and LED light source.

FEATURES:

- High power, low wattage COB LED light source
- Availabe with wood, aluminum, or custom material accent panels
- Concealed anchor bolt base and mounting hardware

SPECIFICATIONS:

CONSTRUCTION: Rectangular extruded aluminum 6063-T6 tubes connected to aluminum 6061-T6 base plate and internal supports with an aluminum 319 top casting.

Bollard is fastened to a concrete anchor bolt base with concealed hardware accessible behind accent panel. Anchor bolt kit includes (4) hot dip galvanized anchor bolts and fasteners and a ridged concrete pour template.

ELECTRICAL: Constant current electronic driver available in 120V or 277V input. Standard output is 12W. All drivers are Underwriters Laboratories recognized with 0-10V dimming standard. Fixture is internally prewired to the electrical splice box located in the fixture base.

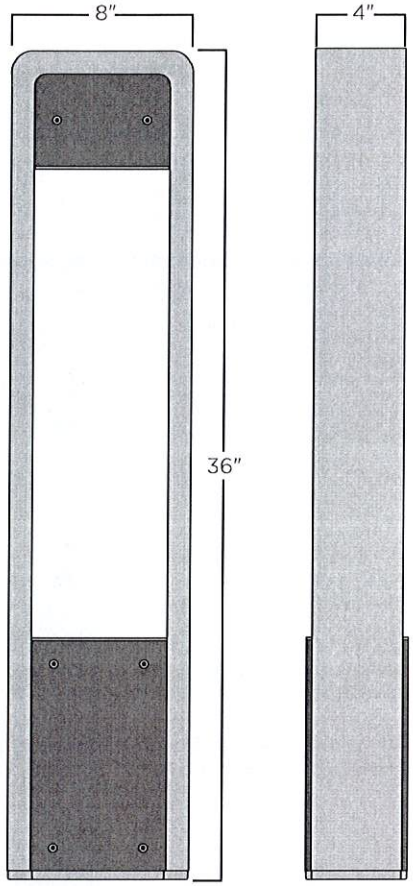
OPTICAL SYSTEM: Chip on board LEDs have solderless connections for field upgradability. Available in 2700K, 3000K, 3500k and 4000K color temperatures. Consult factory for additional lumen options.

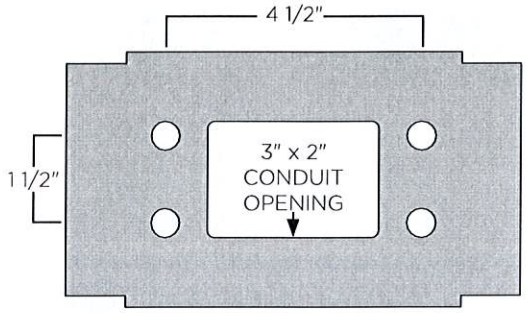
FINISHES AND MATERIALS: Woods are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All aluminum parts are polyester powder coat painted.

HARDWARE: Fasteners are stainless steel. Anchor bolt kits are hot dip galvanized.

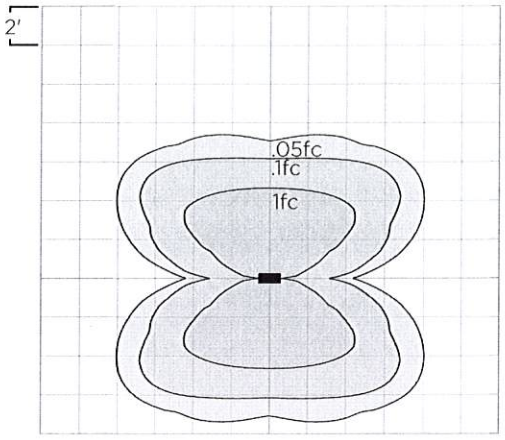
FIXTURE TYPE: AP-04

© 2017 STRUCTURA INC.





Standard Concrete Foundation or
Optional Screw-In Bollard Foundation[1]



ORDERING GUIDE: EXAMPLE: DBL-36-L27SO-C5-P1/S6-120-STD

The mark of responsible forestry
FSC® C102326

DBL	36	SO					
1	2	3	4	5	6	7	8

1	Series
DBL	Duo Bollard

2	Overall Height
36	36"

3	Color Temperature
L27	2700K LED
L30	3000K LED
L35	3500K LED
L40	4000K LED

4	Light Source
SO	680 Lumens

5	Bollard Finish
C*	See color options on finishes technical sheet
CSM	Custom Color

6	Panel Material
P1/S*	Wood (specify wood color)[2]
P2/C*	Aluminum (specify paint color)[2]
WS	Weathering Steel

7	Voltage
120	120V
277	277V

8	Special
STD	Standard
MOD	Modified

1. Spec sheet for Scew-In Bollard Foundation is available in the Accessories section.
2. See color options on finishes technical sheet.

Product specification sheets subject to change.

FIXTURE TYPE: AP-04

Date: _____ Customer: _____

Project: _____

Type: _____ Qty: _____

selux

Olivio Medio LED

Order Code: OLML - _____ - _____ - _____ - _____ - _____ - _____ - _____

Pole Order Code: _____ (Series) - _____ (Height) - _____ (Finish) - _____ (Options)

OLML	Series	**OLML** Olivio Medio LED				
_____	Optics	**S09** Spot, 9°	**F40** Medium, 41°	**F80** Flood, 78°	**ASM** Asymmtric (no SLH or SLV option)	
_____	Mounting	**U** Universal	**T1** Single Pole Top			
_____	Light Engine	**L46** 46W nominal	**L23** 23W nominal			
_____	CCT	**30** 3000K	**40** 4000K			
_____	Finish	**WH** White	**BK** Black	**BZ** Bronze	**SV** Silver	**SP** Specify Premium Color
_____	Voltage	**120**	**208**	**240**	**277**	
_____	Options	**DS**[1] Dark Sky 0° Tilt Option	**DM**[2] Dimming, 0-10V	**SLH** Spread Lens Horizontal (fixed)	**SLV** Spread Lens Vertical (fixed)	**20kA** 20kA Surge Supression

[1] IDA certified "Dark Sky Friendly" for Universal Mounting Only

[2] Only available with L46

Product Modifications

Please list modification requirements for review by factory:

Approvals

IP67

Selux Corporation © 2017, T 845-834-1400, 800-735-8927, F 845-834-1401, www.selux.us

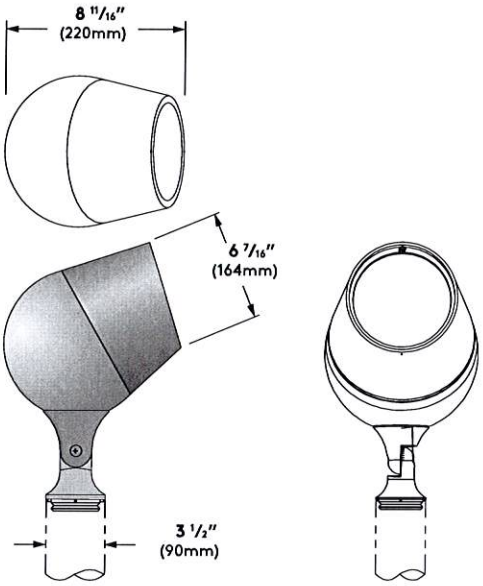
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

Date:

FIXTURE TYPE: AP-05

Olivio Medio LED - Universal Mount

OLML-T1



Specifications

1. Luminaire Housing - Two piece high pressure die cast housing, made of low copper aluminum alloy. Single recessed captive screw allows easy access to light engine & gear tray components.

2. Gasketing - (not shown) UV and ozone-resistant silicone gasket between fixture housing and lens base provide IP67 level ingress protection. IP rated micro-membrane ensures pressure compensation.

3. Lens - (not shown) Tempered clear glass lens.

4. LED Light Engine - (not shown) made from high flux COB and vacuum metalized aluminum reflectors. Selux is using brand name LED manufacturers. Available in 3000K and 4000K, CRI minimum 80. Reflectors made from high purity aluminum to ensure high efficiencies throughout lifetime. Complete light engine can be removed easily for future upgrade. LED light engine provides a reported lumen maintenance of 84.3% at 60,000 hours. L70 calculated greater than 60,000 hours.

6. LED Driver - (not shown) Selux uses brand name high efficiency LED drivers. LEDs are driven by RoHS compliant high-efficiency driver. Excellent for cold temperature starting and instant on. Min. operating temperature -40°C/ -40°F.

7. Surge Protector - (not shown) Designed to protect luminaire from electrical surge up to 10kA. Surge protection up to 20kA optional.

8. Power Cord - (not shown) Pre-installed at factory and fed hidden through the luminaire hinge and hinge arm. Power cords are specified to fit the length of the pole specified with the luminaire.

Exterior Luminaire Finish -
Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide. Hot Dip Galvanized finish (GV) on all steel parts also available.

5 Year Limited LED Luminaire Warranty -
Selux offers a 5 Year Limited Warranty to the original purchaser that the Olivio Medio LED Solar luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. Fixture suitable for ambient temperature of 40° C (104° F).

Listings and Ratings: Luminaire and LED tested to IP67 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

OLIVIO LED suitable for ambient temperatures of 40°C (104°F). Minimum operating temperature of luminaire at -40□C (-40°F).

NRTL Listed for wet location (i.e. UL, CSA)

Visit selux.us for our LED End of Life recycling policy.

Lumen Output for OLML

Olivio Medio LED	S09	F40	F80	ASM
3000K CRI>80	3208 lm CBCP 46602.8 cd	3263 lm CBCP 5273.9 cd	3010 lm CBCP 2052 cd	2068 lm CBCP 1678 cd
4000K CRI>80	3252 lm CBCP 47253cd	3308 lm CBCP 5347.6cd	3052 lm CBCP 2080.7cd	2820 lm CBCP 1970cd

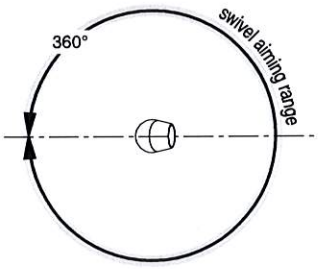
Selux Corporation © 2017, T 845-834-1400, 800-735-8927, F 845-834-1401, www.selux.us
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

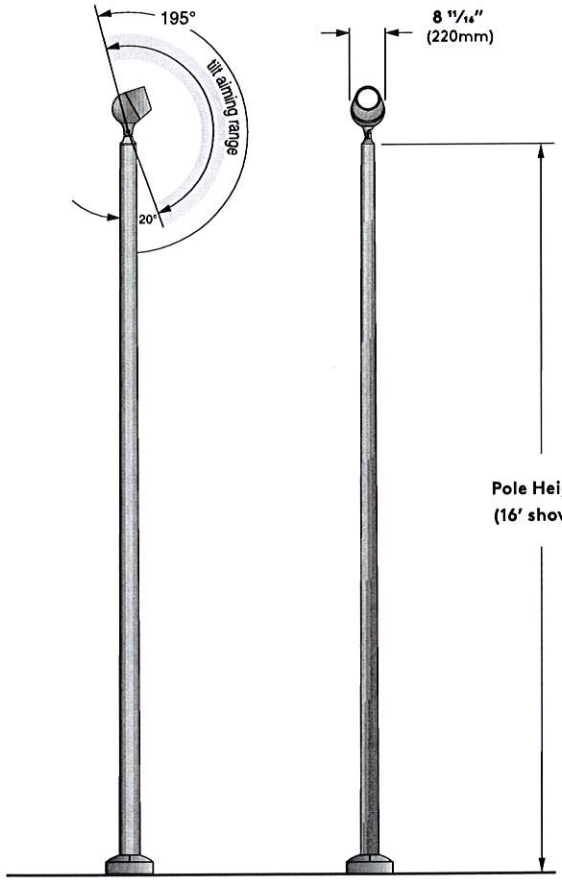
FIXTURE TYPE:
AP-05

selux

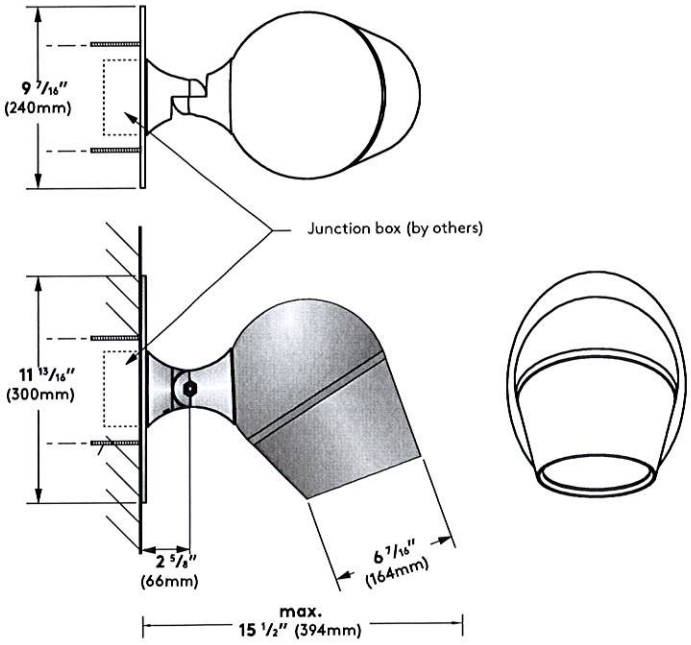
Mounting

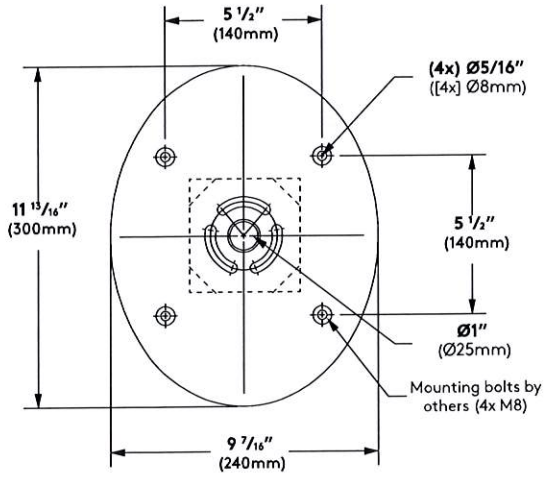
Single Pole Top (T1)
EPA = 0.7 ft² (0.065 m²)
Weight = 17 lbs. (7.7 kg)





Universal Surface Mounting (U)





Note: Wall plate is mounted to surface structure and over junction box (by others)

Selux Corporation © 2017, T 845-834-1400, 800-735-8927, F 845-834-1401, www.selux.us
In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

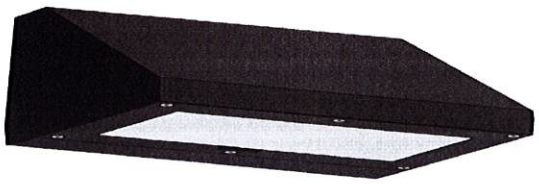
FIXTURE TYPE:
AP-05

Surface

UVK-30001

Austin-Vekter 1 Small

LIGMAN
LIGHTING USA

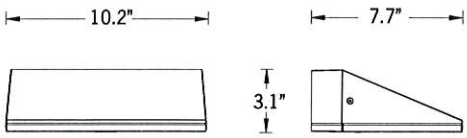


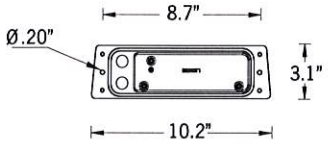
A wedge shaped range of small profile wall mounted luminaires for use in uplight or downlight applications. This product is provided with a range of high powered LEDs with a selection of optics.
The Vekter is unique as it is available with Type II, III, IV & V light distribution options that facilitates wider spacing and even light distribution between the light fixtures. Wide spacings of up to 40' on center can be achieved using a type II optic with uniformity that complies to path of egress requirements. This provides higher energy saving and reduced installation costs. The Vekter can be manufactured using different type beam optics to achieve custom distribution, e.g using type II and type IV optics inside the same luminaire. Integral electronic control gear is housed in a special waterproof box that can be detached from the optical chamber for easy installation.
Mounting plate for 3" and 4" junction box is provided with the fixture. Matching surface mount conduit boxes are available as an option.
The Austin-Vekter is suitable for lighting footpaths, building facades, building entrances and parking areas around buildings. This fixture comes standard with a clear lens, optional frosted lens available as an adder in options below.
For the Austin-Vekter 27w, please see UVK-30002

Physical Data

Length • 10.2"
Height • 3.1"
Weight • 7 lbs

IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)





Mounting Detail

Aluminum Casting
Less than 0.1% copper content – Marine Grade LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets.** Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0-U0-G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides **exceptional light control and precise distribution of light.**
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

:andard Options

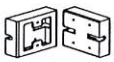
.amp
20w LED 1932 Lumens for M,W,VW & EW Beam

Beam
M • Medium 31°
W • Wide 53°
VW • Very Wide 66°
EW • Extra Wide 110°
T2 • Type II Distribution - 1704lm
T3 • Type III Distribution - 1712lm
T4 • Type IV Distribution - 1679lm

LED Color
W27 • 2700K
W30 • 3000K
W40 • 4000K

Finish Color
01 - Black - RAL 9011
02 - Dark Grey - RAL 7043
03 - White - RAL 9003
04 - Metallic Silver - RAL 9006
05 - Matte Silver - RAL 9006
06 - Bronze - RAL 6014
07 - Custom RAL

Options (Consult Factory for Pricing)



SCE - Custom Surface Conduit Entry Box
EMR • Remote Emergency Pack
F - Frosted Lens
NAT - Natatoriu & High Corrosio Environments

Ordering Example : UVK - 30001 - 20w - T2 - W30 - 02 - 120/277v - Options

	Lamp	Beam	LED Color	Color	Voltage	Options		
UVK	30001	20w LED						

Beam		LED Color		Color		Voltage	Options	
M	Medium	W27	2700K	01	Black	120/277v	SCE	Surface Conduit Entry
W	Wide	W30	3000K	02	Dark Grey	Other (Specify)	EMR	Remote Emergency Pack
VW	Very Wide	W40	4000K	03	White		F	Frosted Lens
EW	Extra Wide			04	Metallic Silver		NAT	Natatorium Rated
T2	Type II Distribution			05	Matte Silver			
T3	Type III Distribution			06	Bronze			
T4	Type IV Distribution			07	Custom RAL			

PROJECT: DATE: QUANTITY:

TYPE: NOTE:

FIXTURE TYPE: AW-01

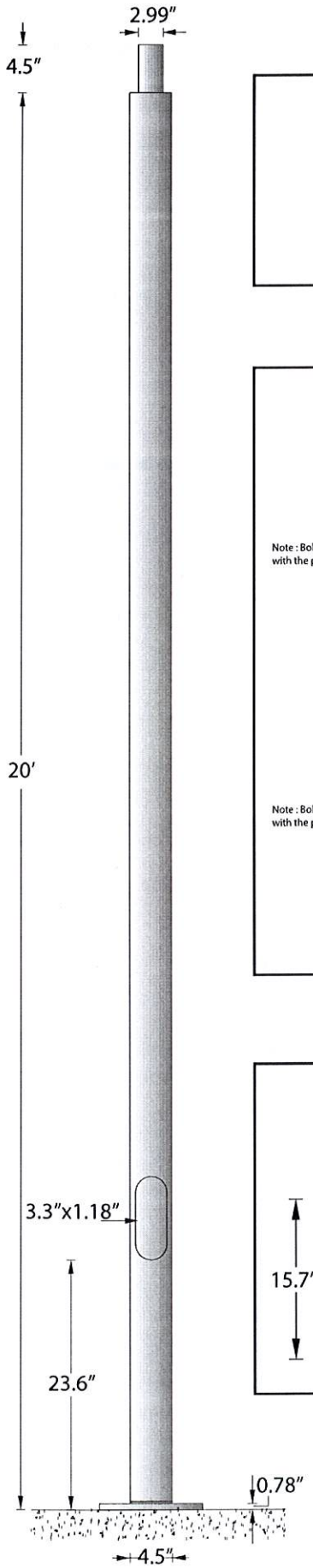
Head Office:
7144 NW Progress Ct Tel: 503-645-0500

LIGMAN
LIGHTING USA

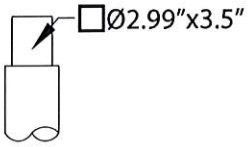
SPD-RSS-4512- 20′ - 4.5″ DIA - .125″

Straight Round Galvanized Steel Powder Coated Pole

7144 NW Progress Ct Fax: 503-645-8100
Hillsboro, Oregon 97124
www.ligmanlightingusa.com

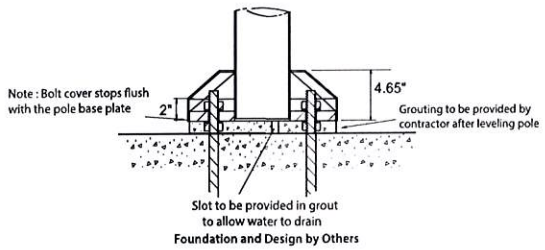


Tenon Post Top

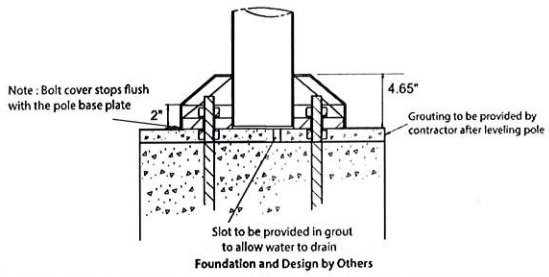


Pole Mount Install Notes

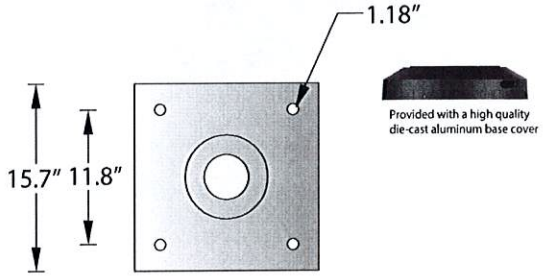
Option A



Option B



Mounting Base



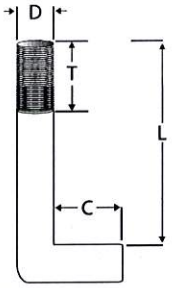
Physical Data

Pole Height: 20′
Pole Diameter: 4.5″
Thickness: 0.125″
Weight: 157.6 lbs

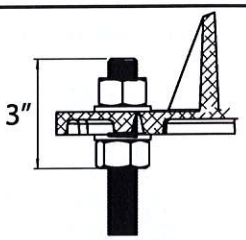
Anchor Bolt Size in Inches

D x L x C x T

¾ x 24 x 4 x 6

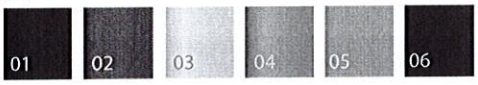


Bolt Projection



Color (Please Specify)

☐01-Black - RAL 9011
☐02- Dark Grey - RAL 7043
☐03-White - RAL 9003
☐04 - Metallic Silver - RAL 9006
☐05-Matt Silver - RAL 9006
☐07- Custom - RAL _____
☐06-Bronze - RAL 6014

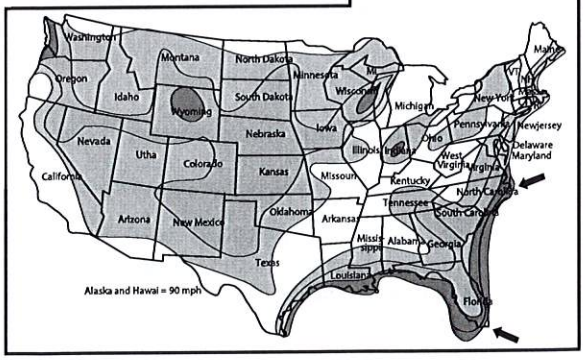


Maximum EPA

Wind Speed (mph)

Mph	70	80	90	100	110
EPA	11.3	8.2	6.1	4.6	3.5

Wind Velocity Map



Not to scale template:

This drawing is being furnished for reference dimensions only and cannot be used as a template to set anchor bolts. Since it is "not to scale" Ligman accepts no responsibility for its intended use. Refer to site plans and specification before installing any anchor bolts.

*** Contact Ligman Lighting USA for bolt template prior to pouring anchor bolts.**

PROJECT: _____ DATE: _____

TYPE: _____ QUANTITY: _____ NOTE: _____

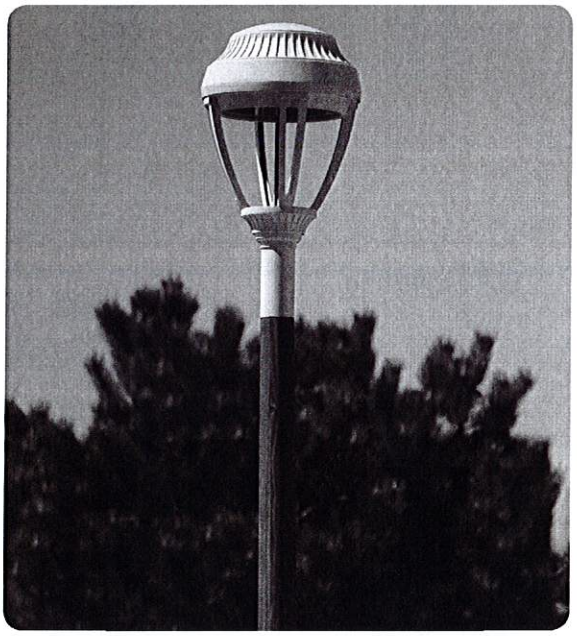
FIXTURE TYPE: P-01

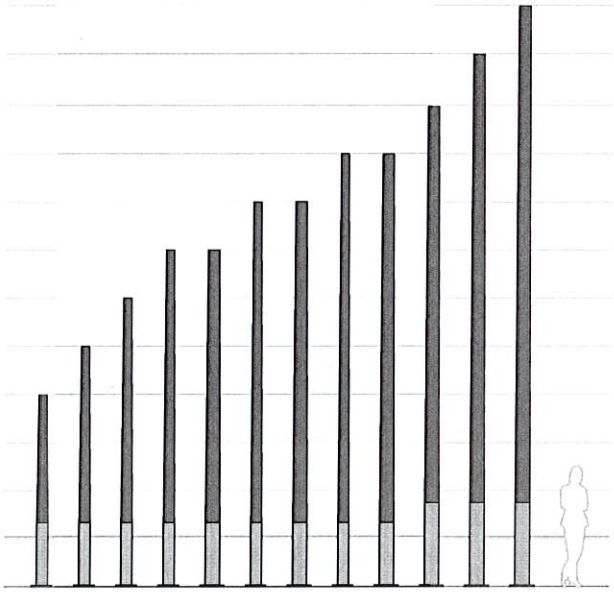
Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information

Bol 8' – 24' Round Tapered and Straight Wood Poles

FIXTURE TYPE: _____

PROJECT NAME: _____





Round Taper

Glulam solid wood and aluminum pole available in 8' - 24' lengths. Tenon adapters, slip fitters and side bracket mounts are available for luminaire mounting.

FEATURES:

- Round extruded aluminum pole base with flush handhole cover held with countersunk stainless steel fasteners.
- Tapered, round, solid glulam wood pole

SPECIFICATIONS:

HOUSING: Solid wood pole is assembled through glulam construction and precision machined using CNC technology. An electrical raceway is provided in the pole's center for wiring. Laminations measure no more than 2" in thickness. Adhesive complies with ASTM D-2559 glulam construction specifications for extreme exposed weather conditions, is waterproof and rated for wet or dry use exposure.

Glulam wood shaft is fastened to aluminum pole base welded to a 3/4" thick aluminum anchor bolt base. Anchor bolt kit includes (4) 3/4" hot dip galvanized anchor bolts and fasteners and ridged concrete pour template.

FIXTURE MOUNTING: Fixtures mount either by 2 3/8", 2 7/8", 3 1/2", or 4" diameter by 4" tall tenon or drill mount for arm brackets. Consult factory for other tenon sizes. Luminaires shall be provided by others.

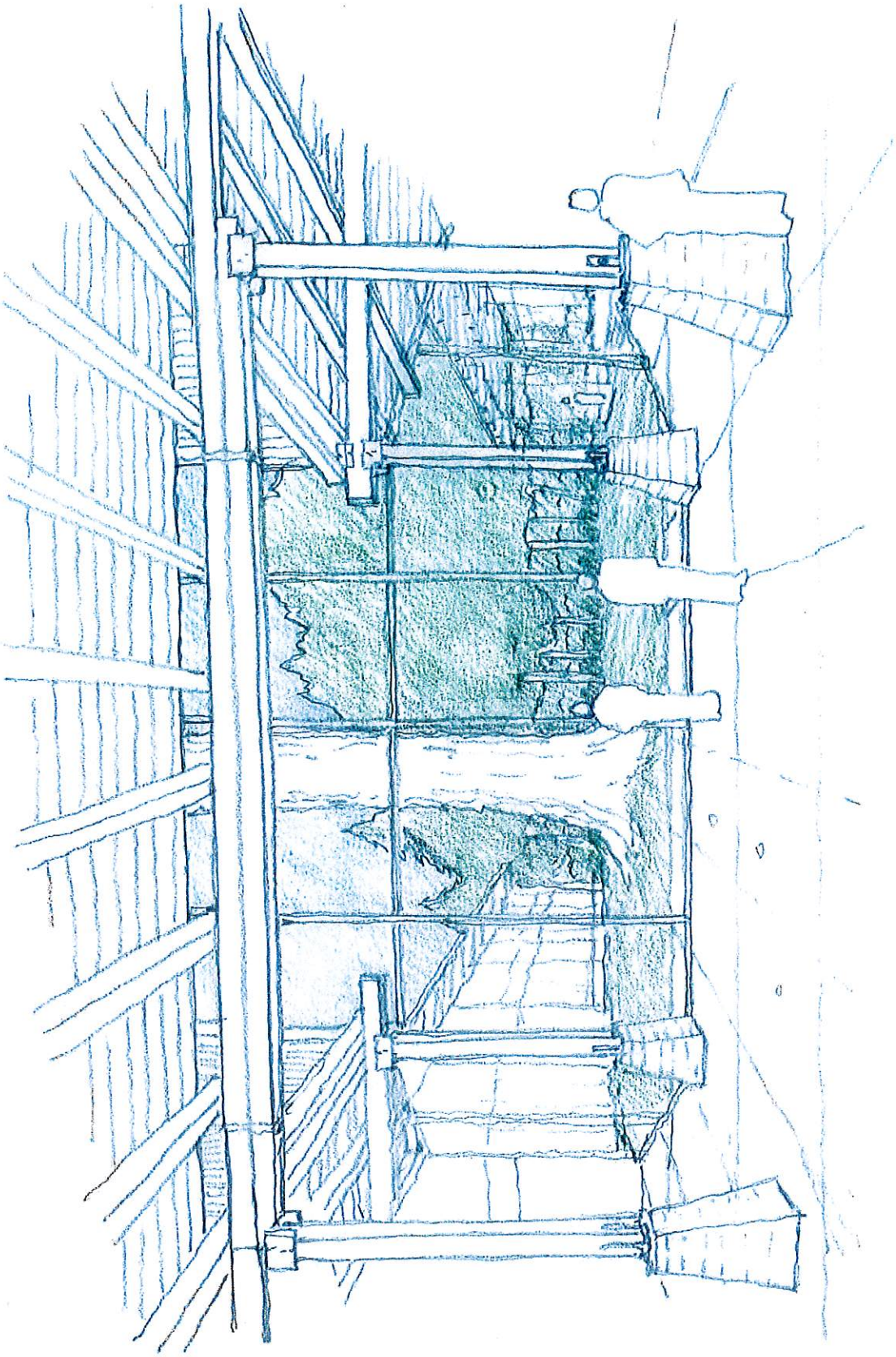
ELECTRICAL: A 5/16" - 18 grounding point is provided on the aluminum pole base. Wireway access is provided through a NEC compliant handhole with a flush, gasketed cover plate.

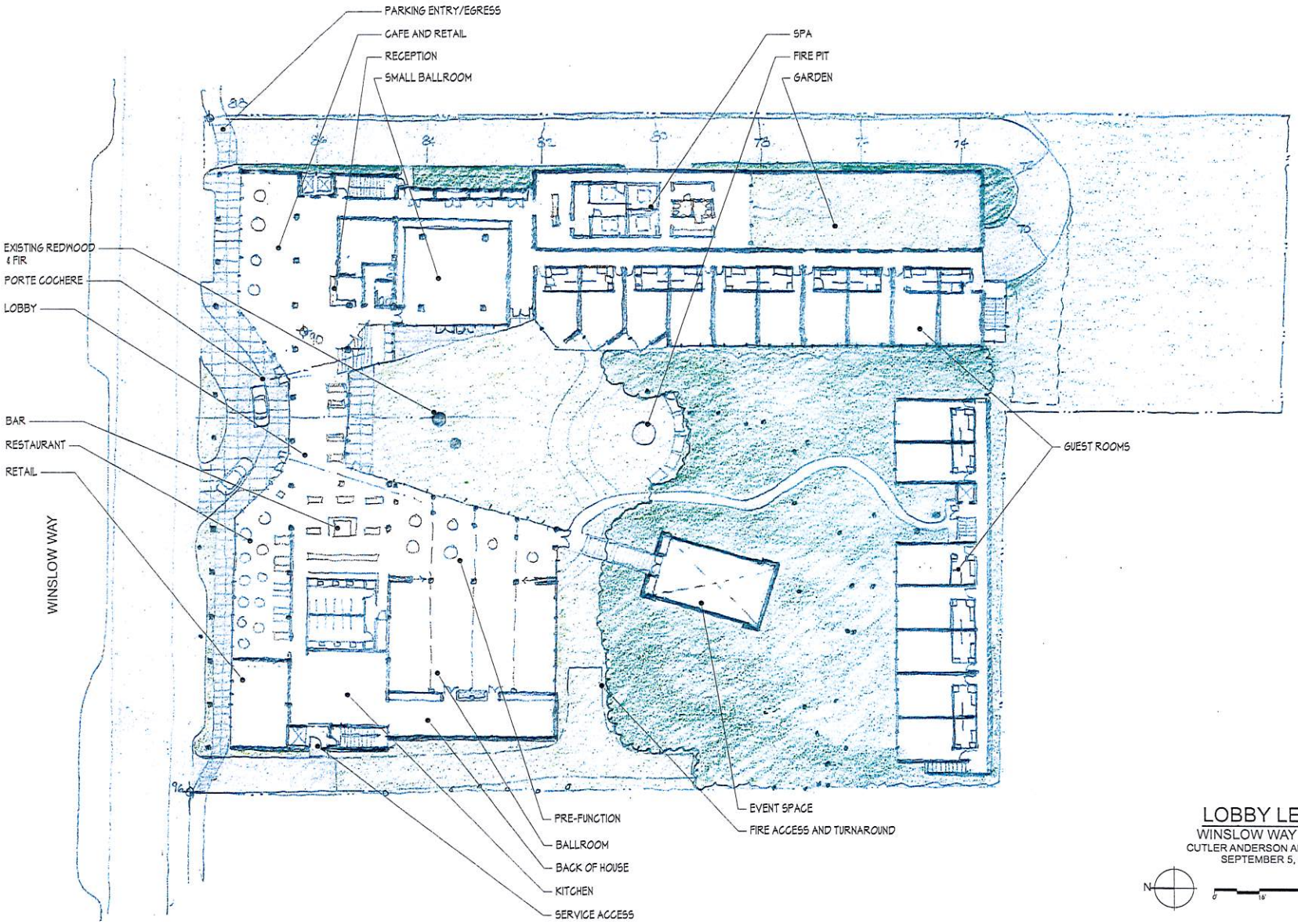
FINISHES AND MATERIALS: Woods are finished with a low VOC waterborne matte exterior finish containing UV and mildew inhibitors. All aluminum parts are polyester powder coat painted.

HARDWARE: Fasteners are stainless steel. Anchor bolt kits are hot dip galvanized.

FIXTURE TYPE: P-02

© 2017 STRUCTURA INC.





LOBBY LEVEL

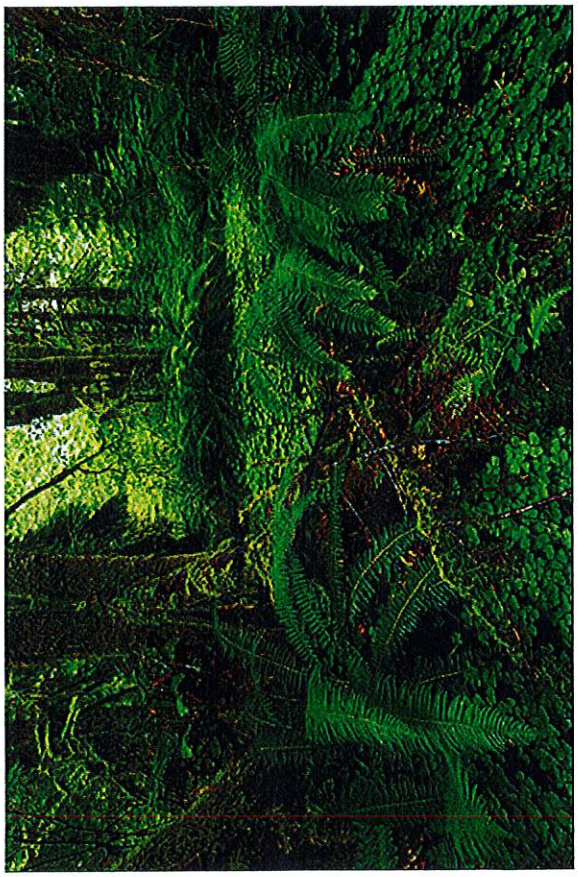
WINSLOW WAY HOTEL

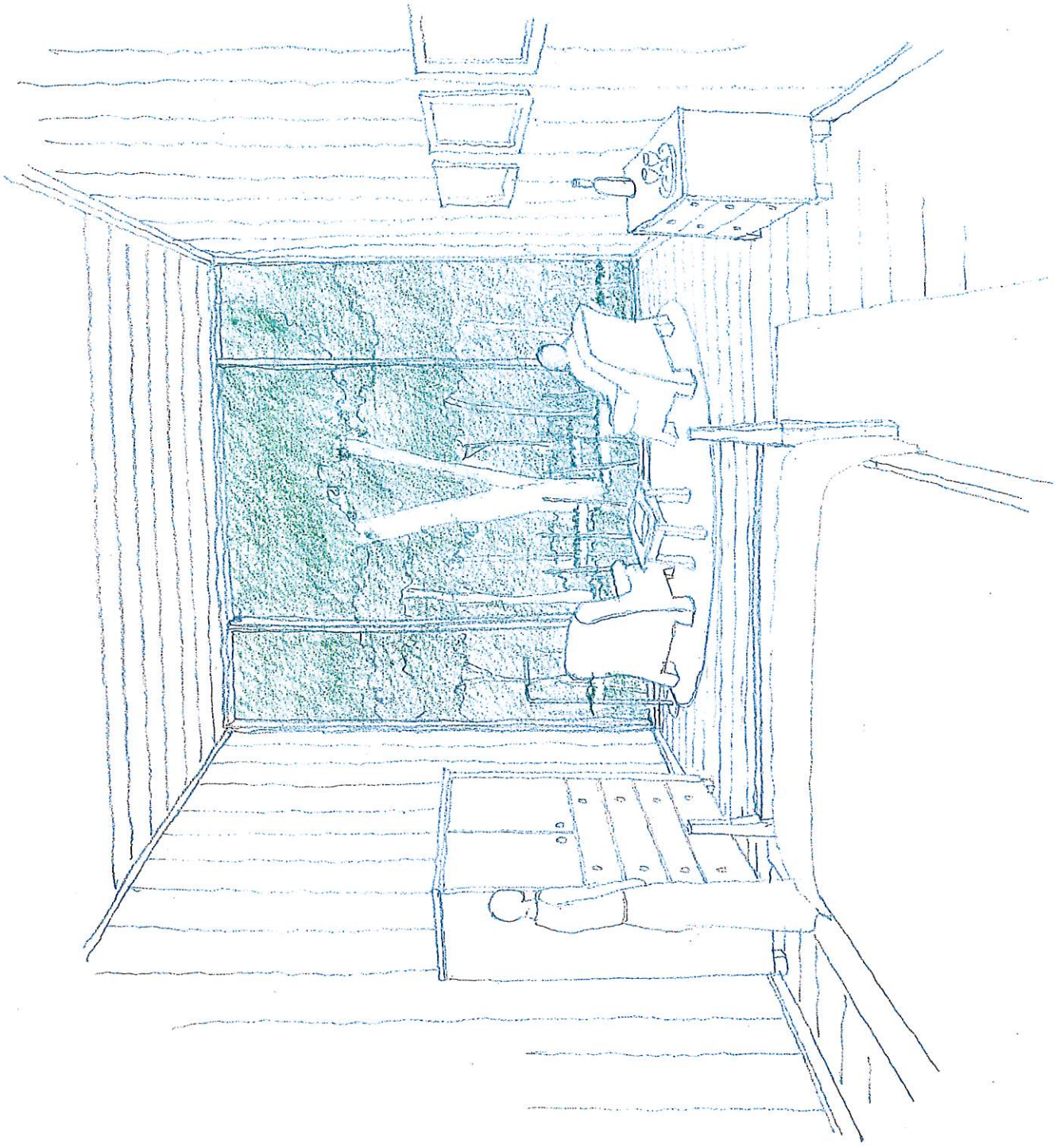
CUTLER ANDERSON ARCHITECTS

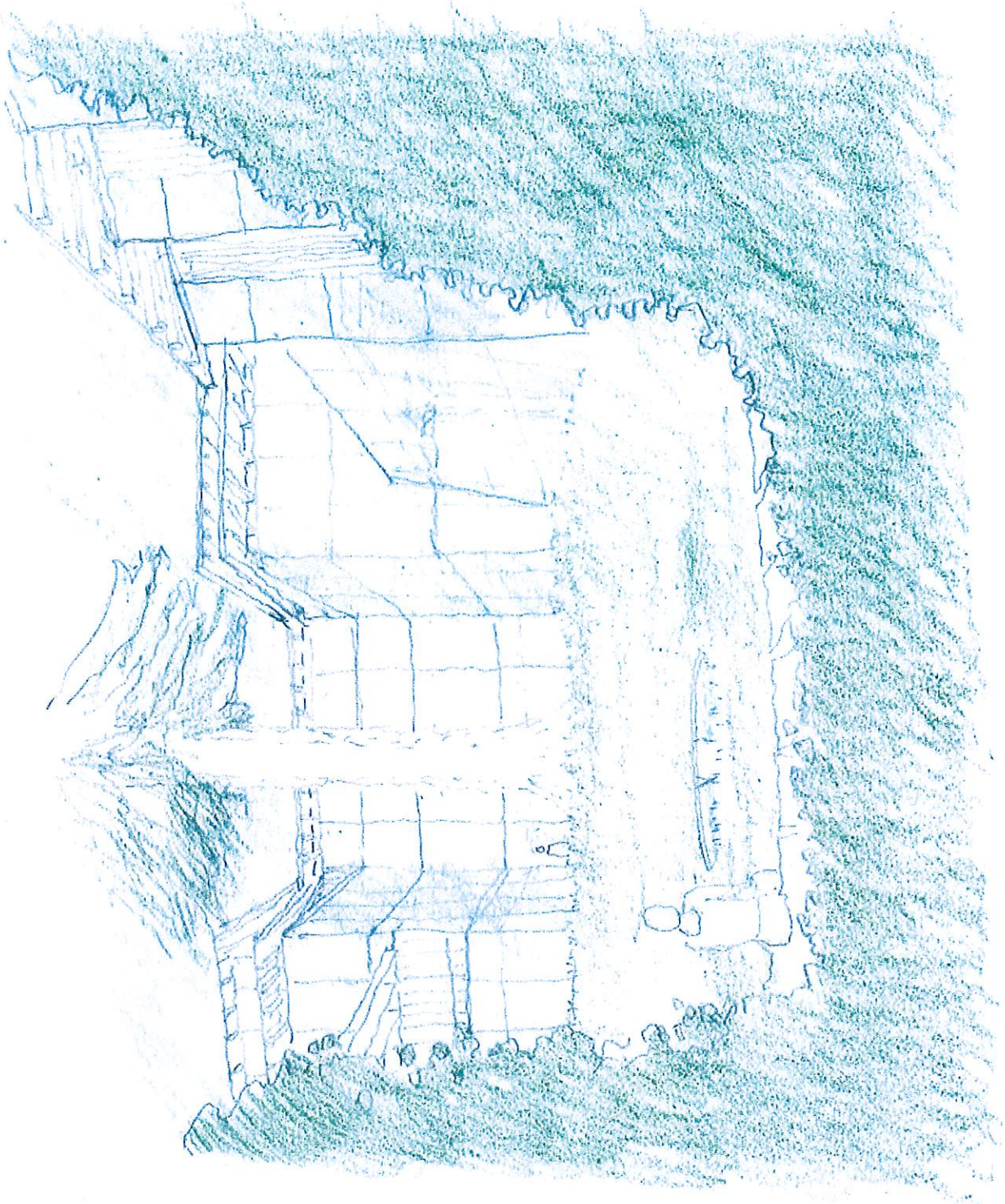
SEPTEMBER 5, 2017

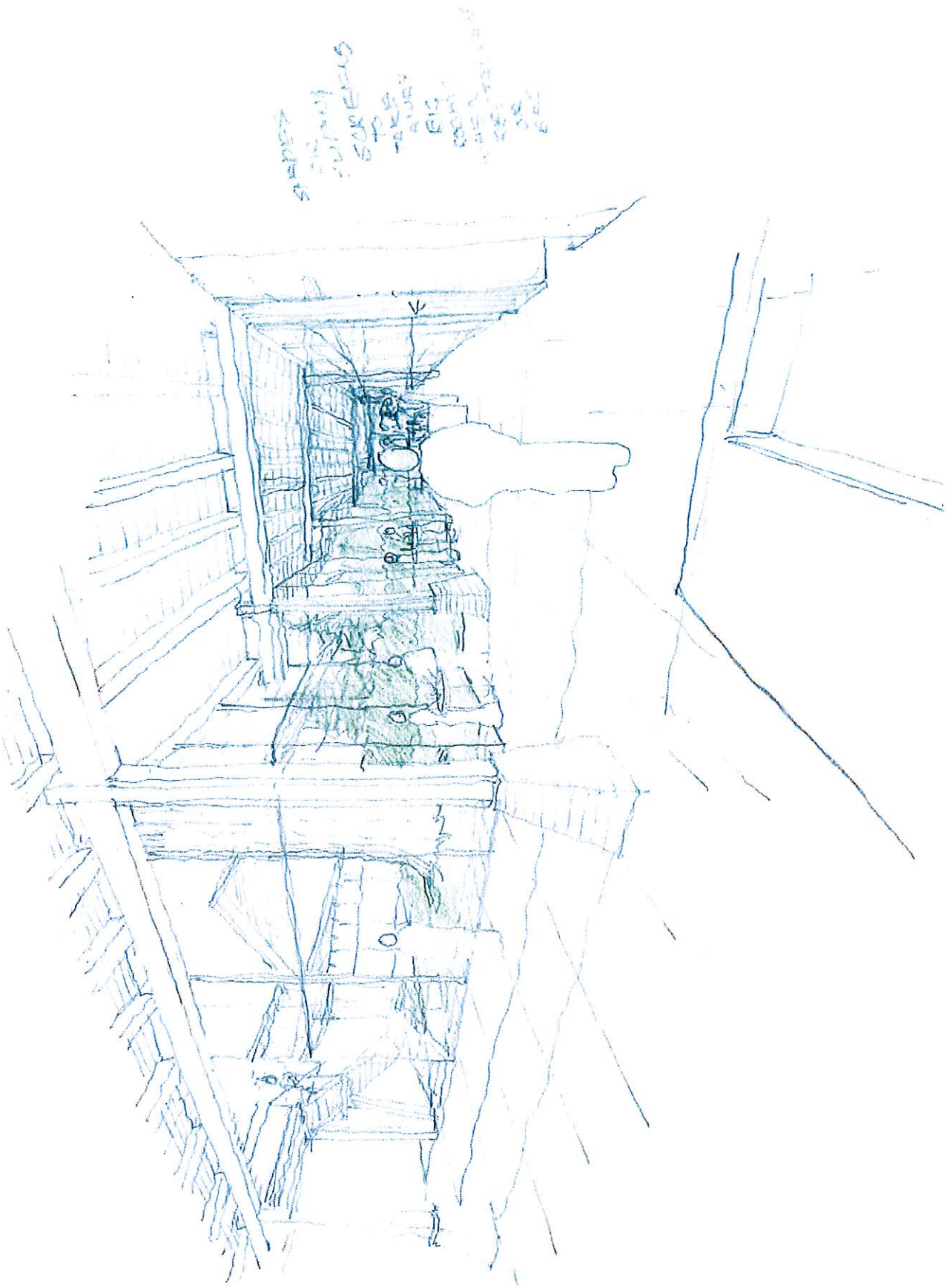
N

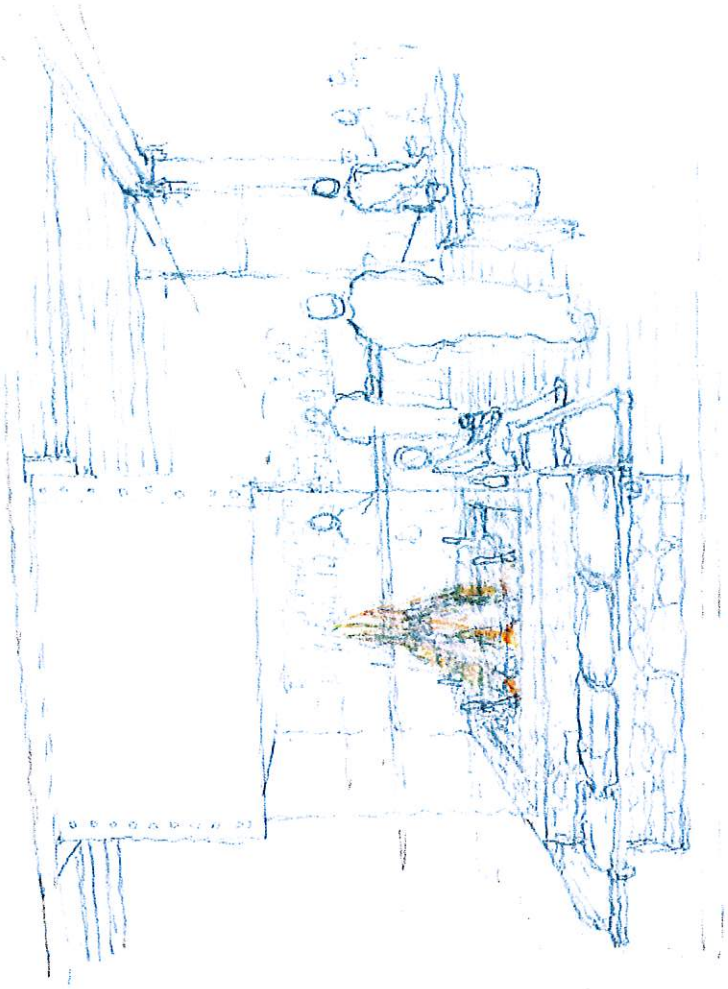
0' 16' 32' 64'

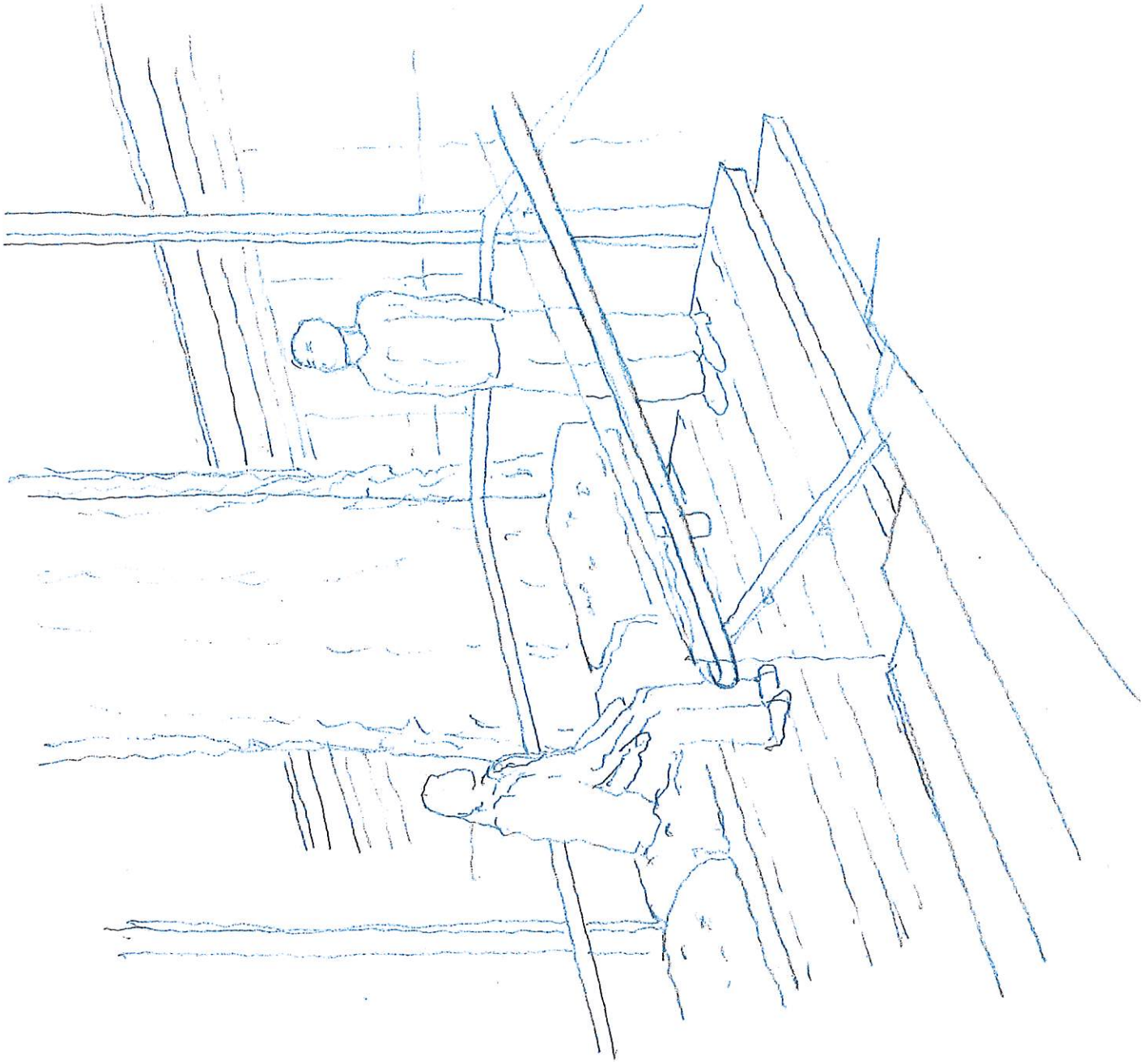


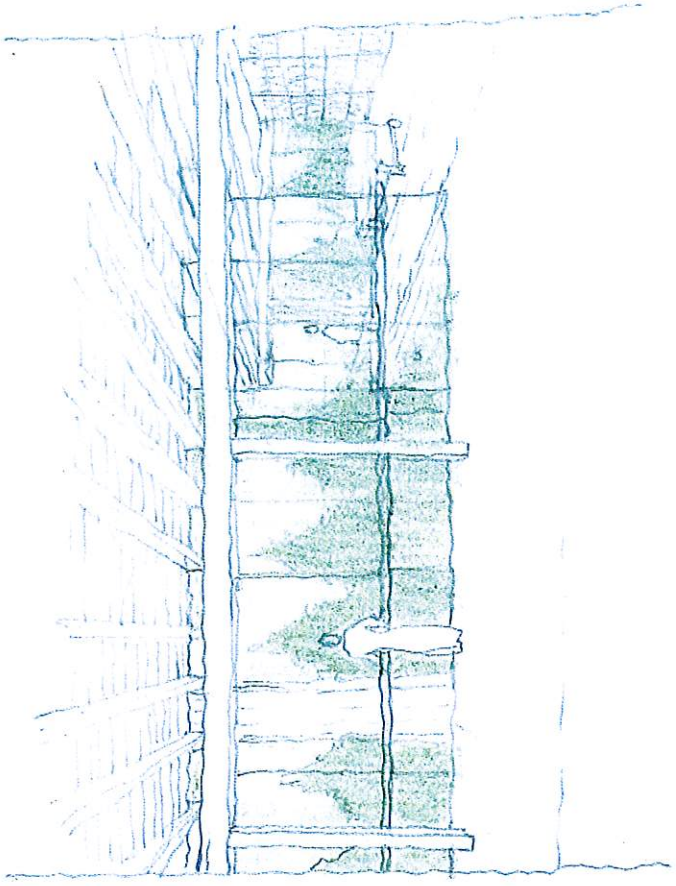


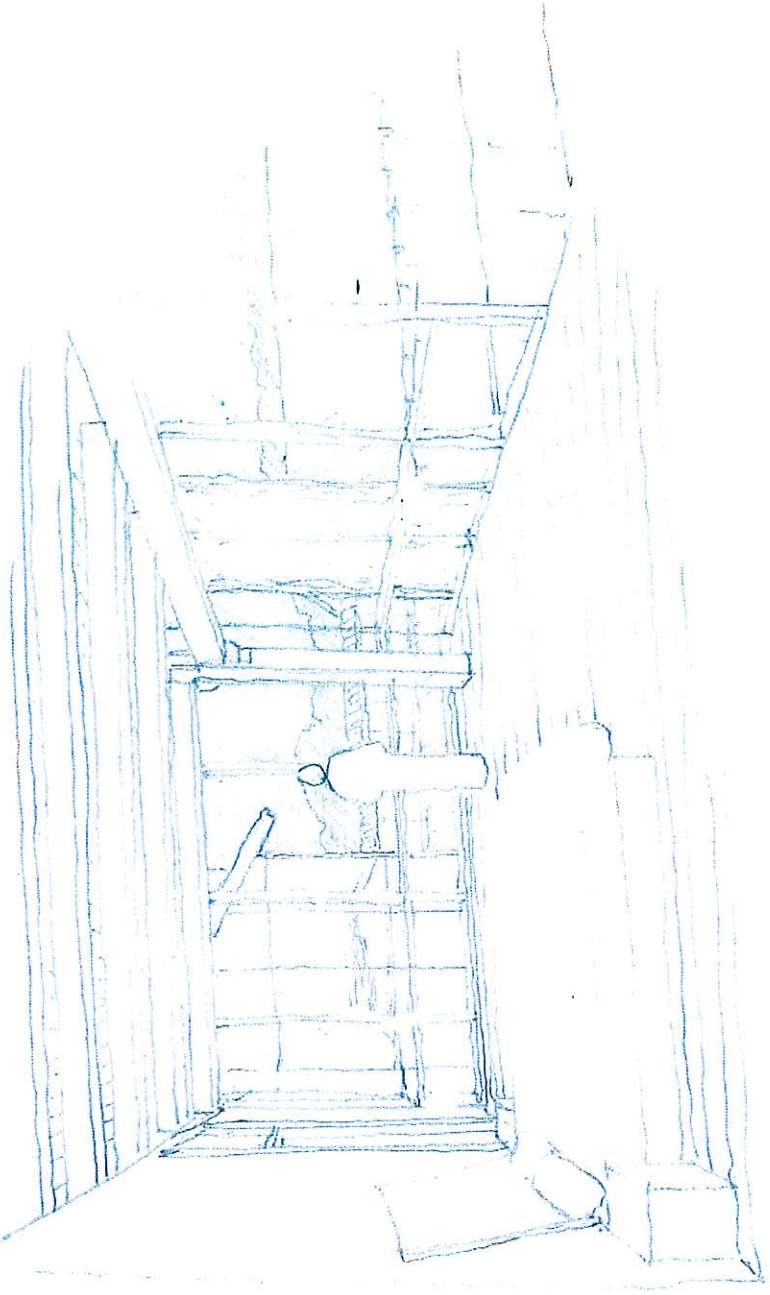


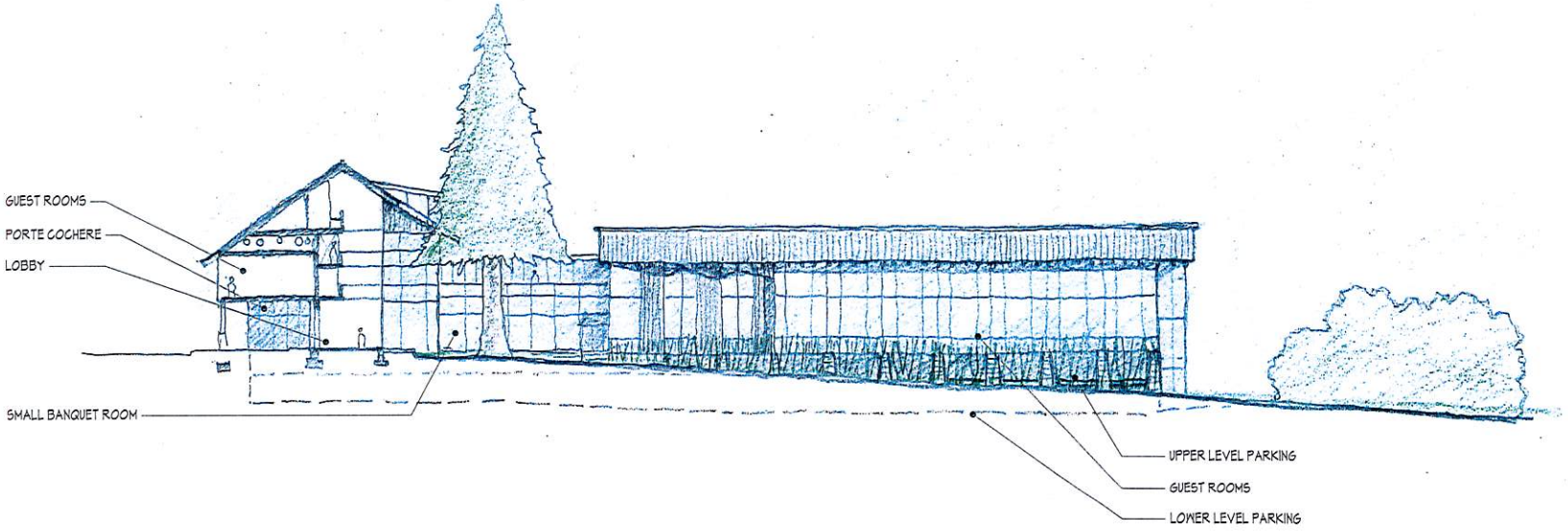












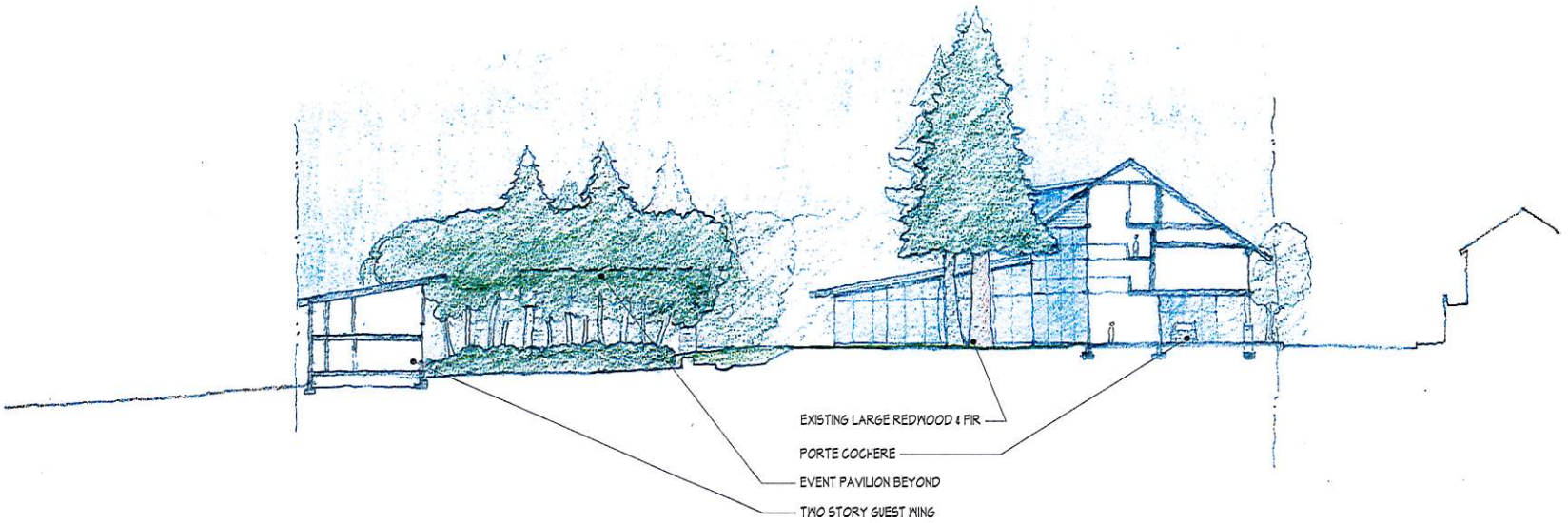
SECTION LOOKING EAST

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

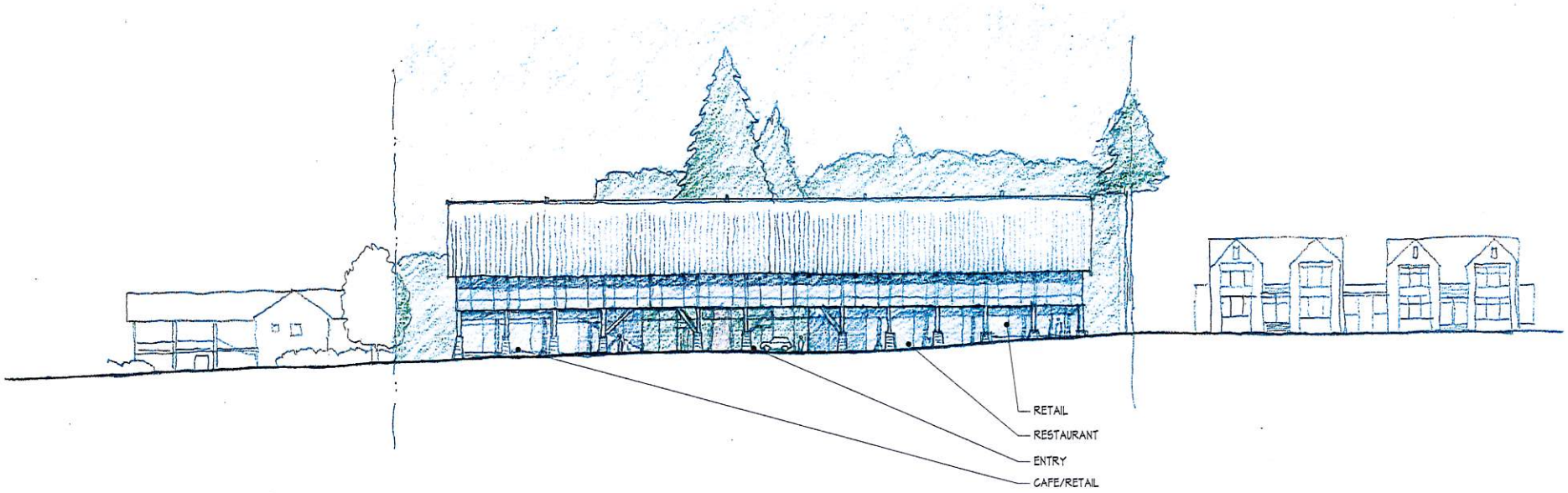
0' 16' 32' 64'



SECTION LOOKING WEST

WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017

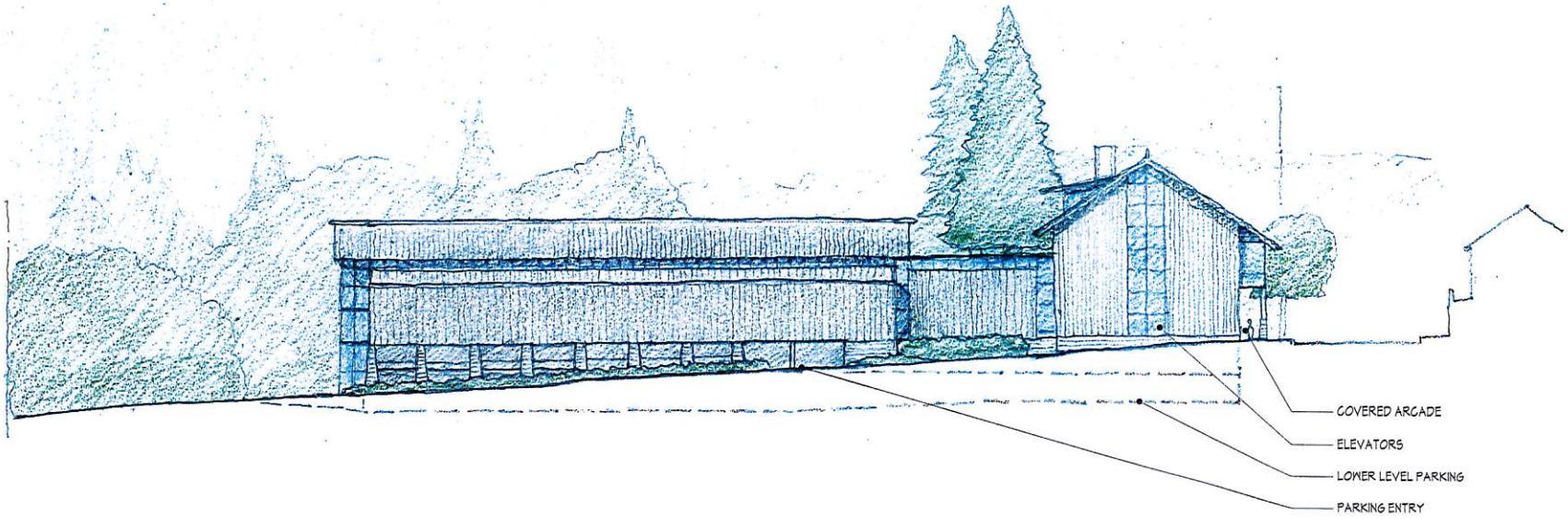
0' 16' 32' 64'



WINSLOW WAY ELEVATION

WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017

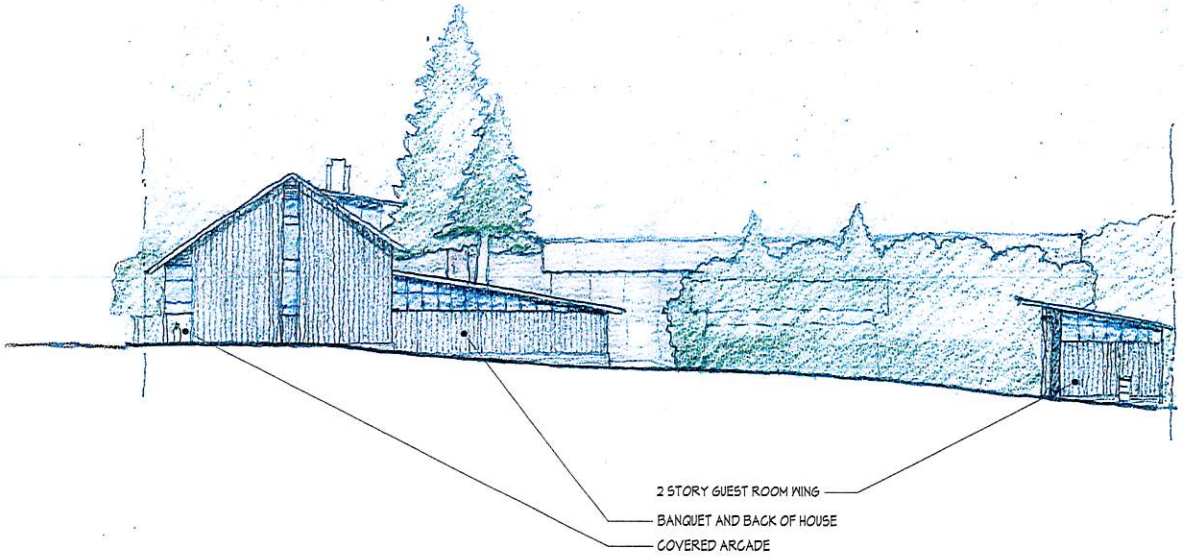
0' 16' 32' 64'



EAST ELEVATION

WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017

0' 16' 32' 64'

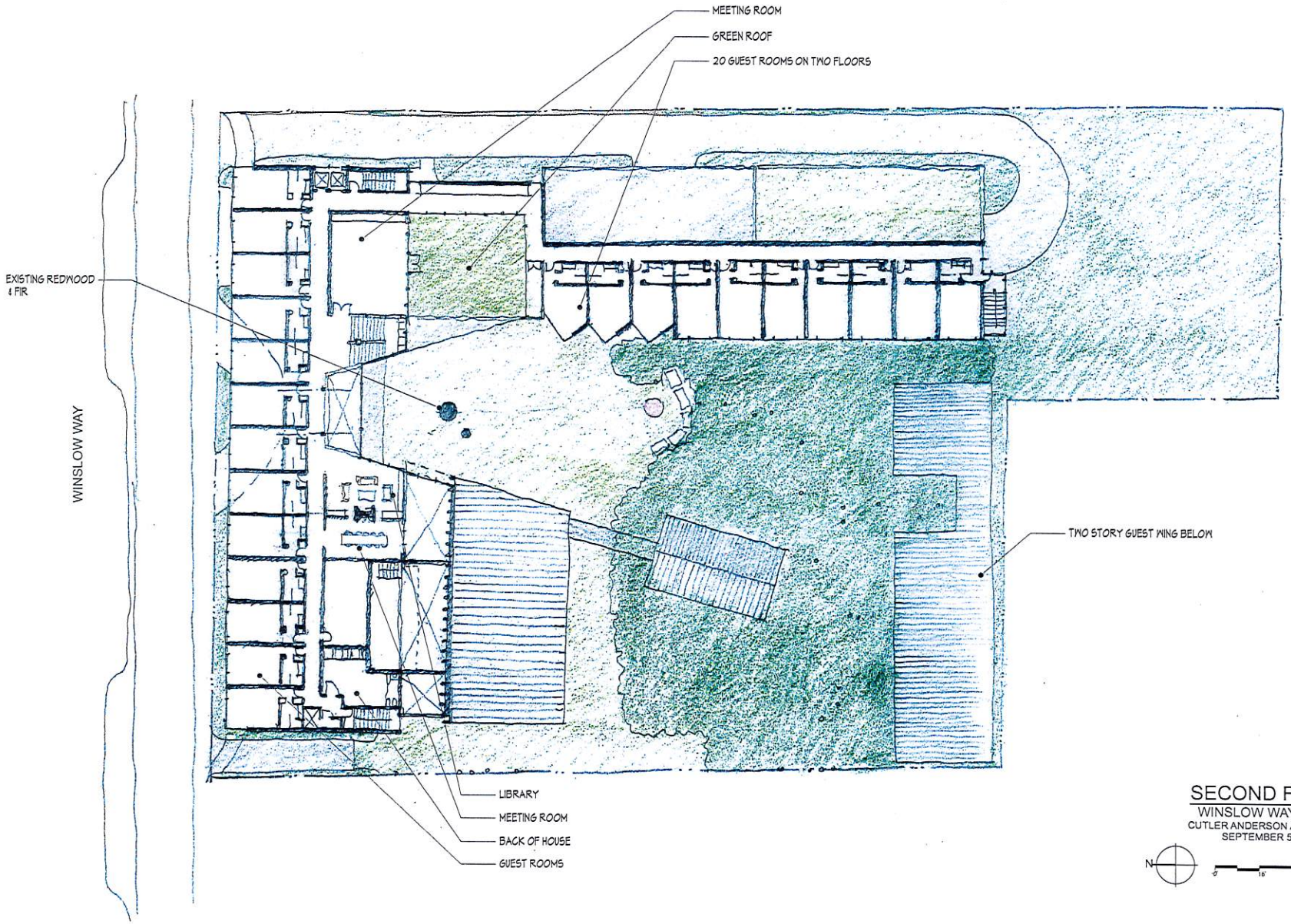


WEST ELEVATION

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017



SECOND FLOOR

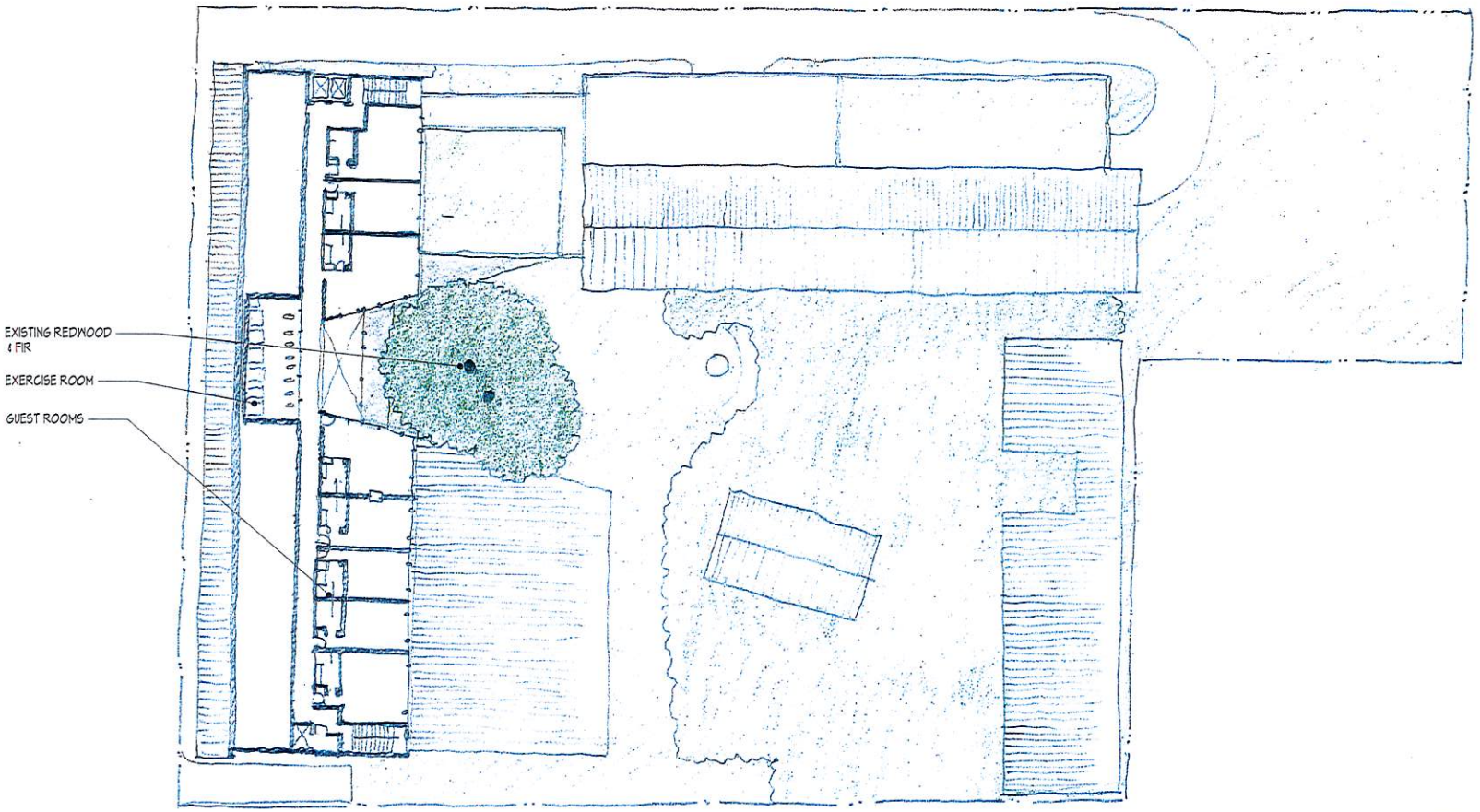
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0' 16' 32' 64'



THIRD FLOOR

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0' 16' 32' 64'

FOURTH FLOOR

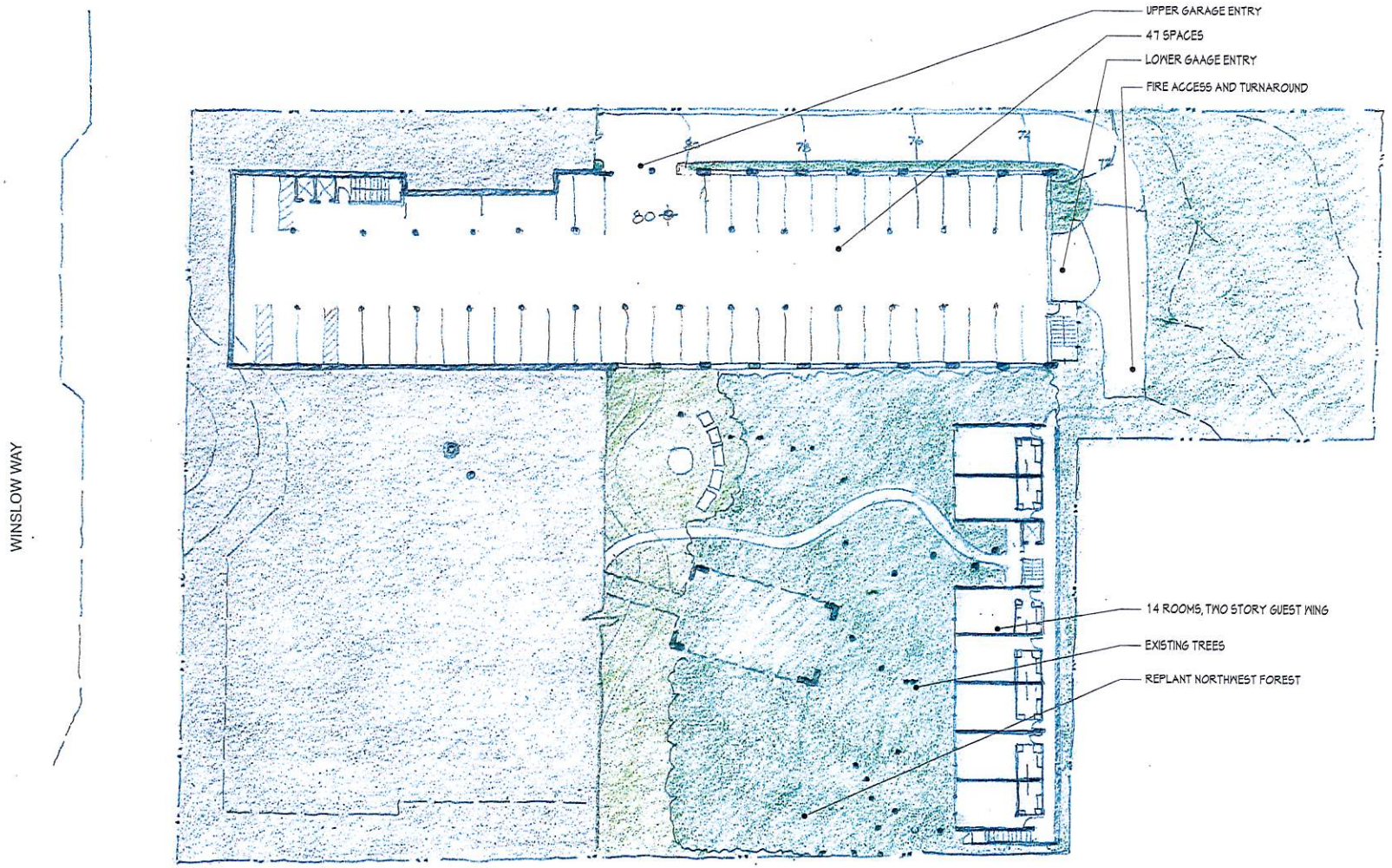
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

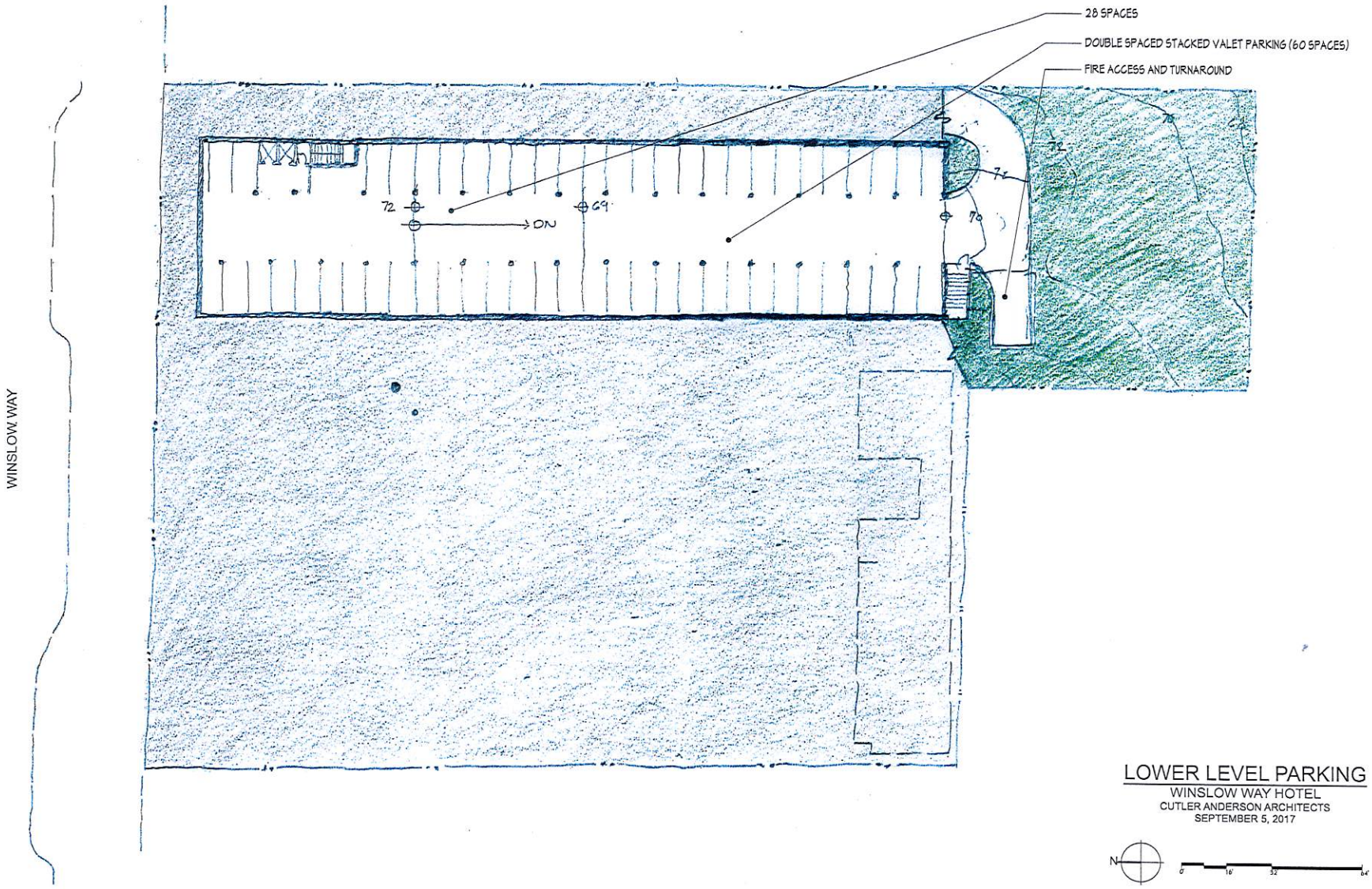
0 16' 32' 64'



UPPER LEVEL PARKING

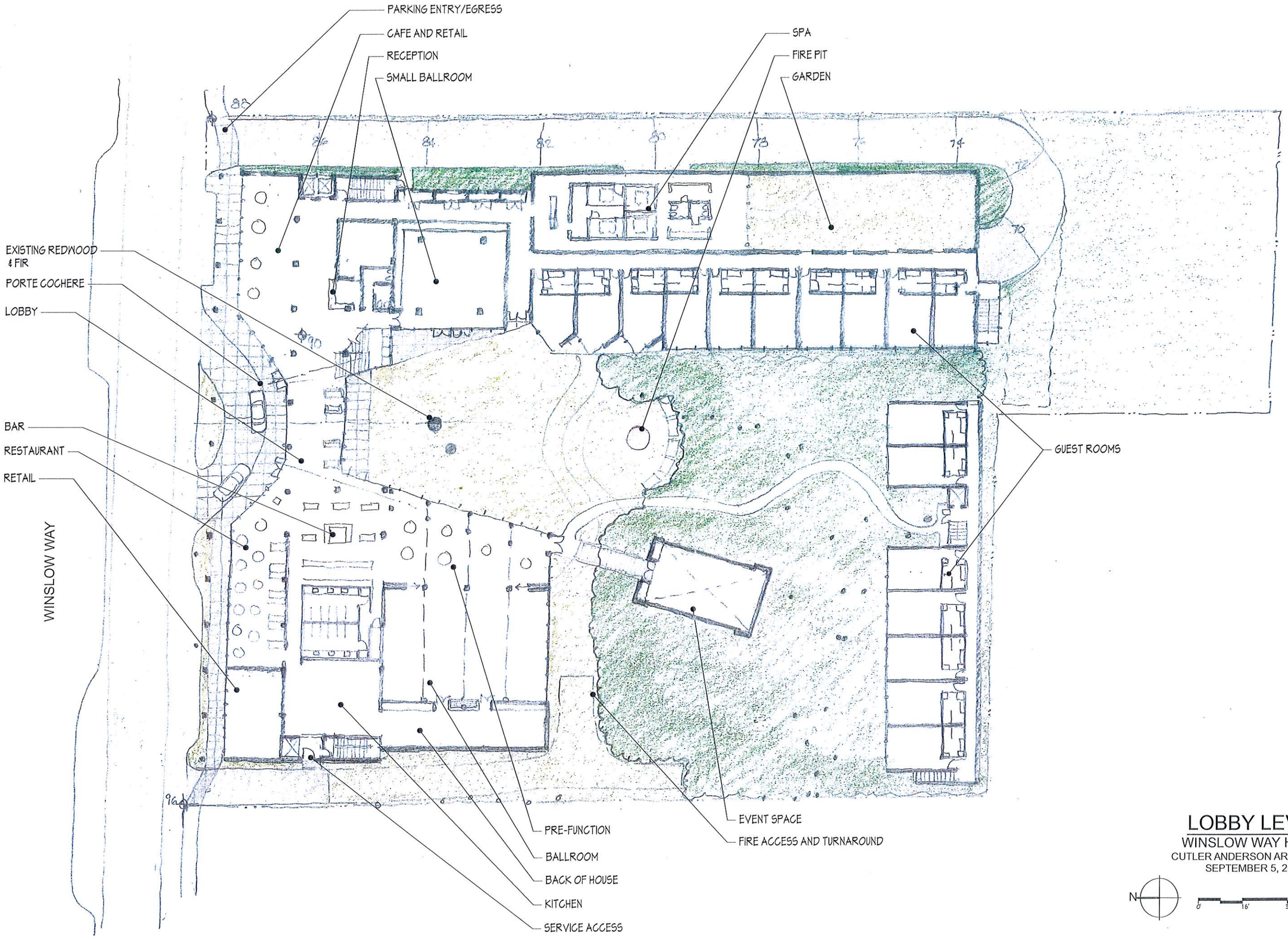
WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017

N



LOWER LEVEL PARKING

WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017



LOBBY LEVEL

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0 16' 32' 64'

MEETING ROOM

GREEN ROOF

20 GUEST ROOMS ON TWO FLOORS

EXISTING REDWOOD & FIR

WINSLOW WAY

TWO STORY GUEST WING BELOW

LIBRARY

MEETING ROOM

BACK OF HOUSE

GUEST ROOMS

SECOND FLOOR

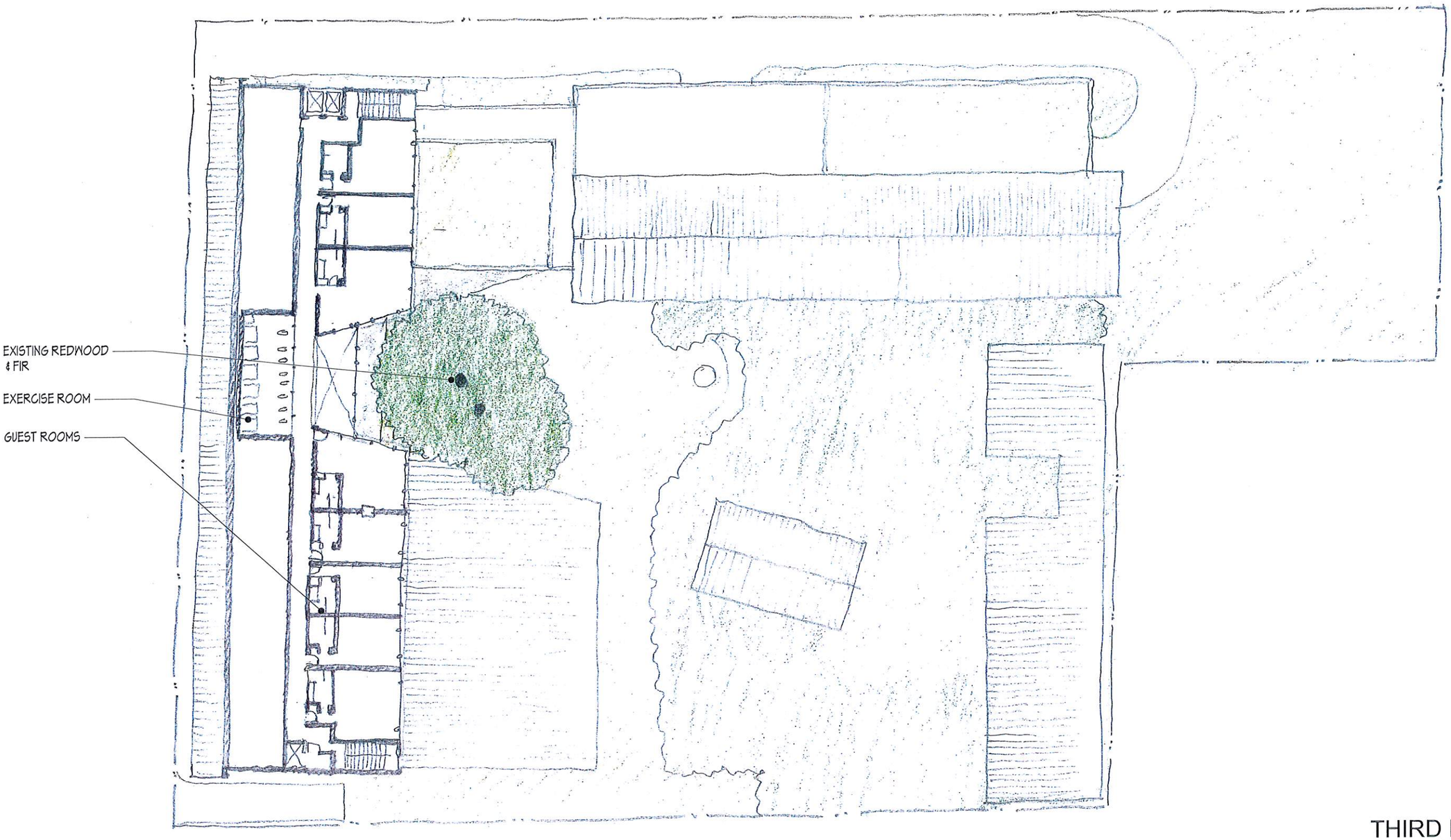
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0 16' 32' 64'



THIRD FLOOR

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0' 16' 32' 64'

FOURTH FLOOR

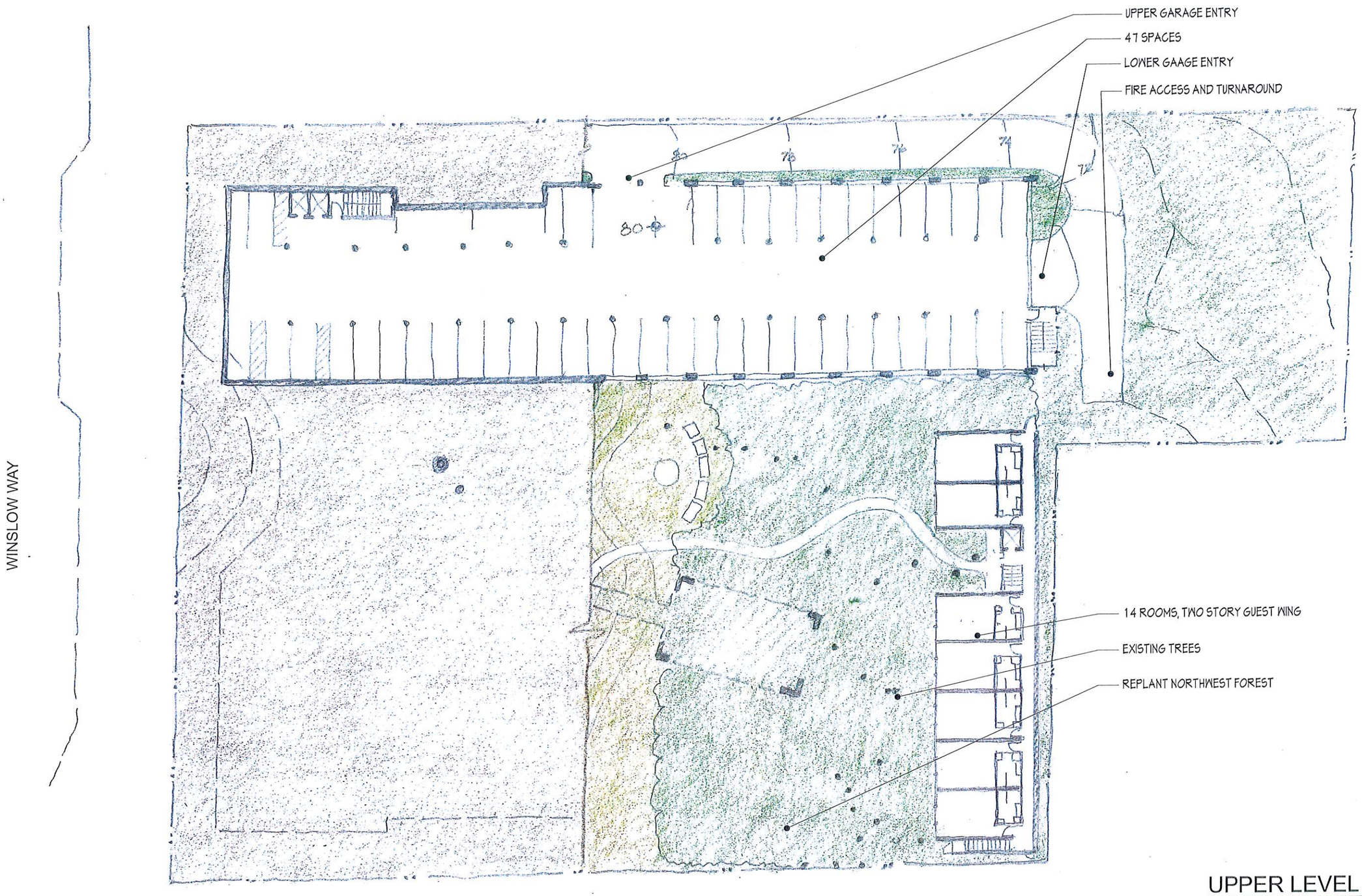
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0 16' 32' 64'



UPPER LEVEL PARKING

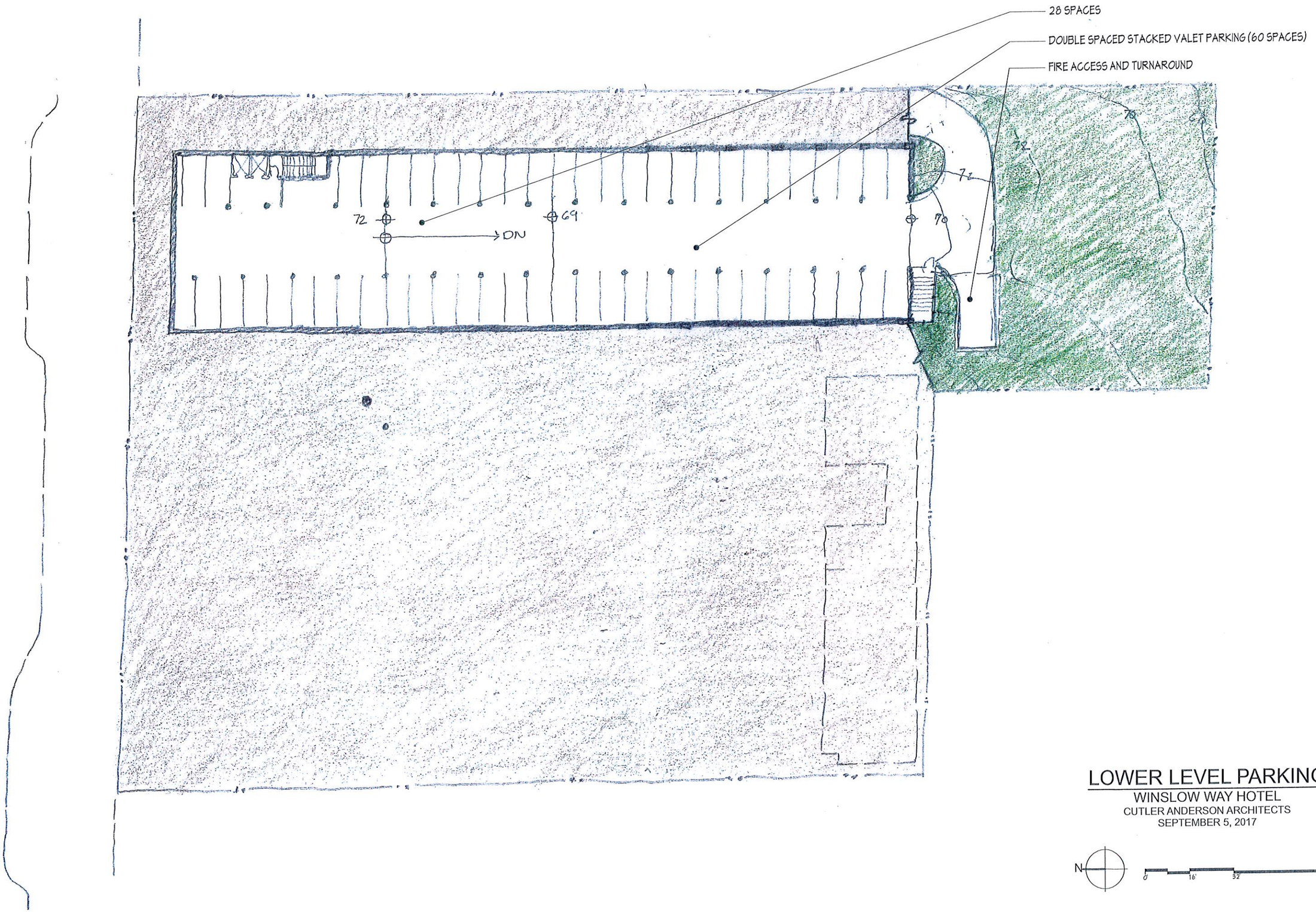
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

0' 16' 32' 64'



LOWER LEVEL PARKING

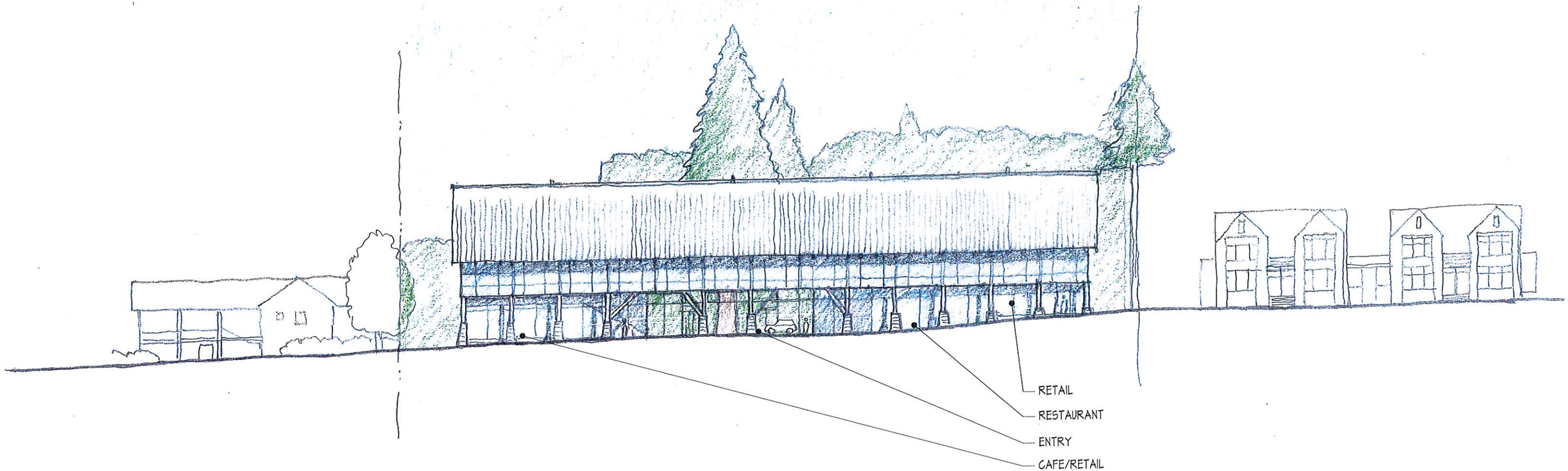
WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

N

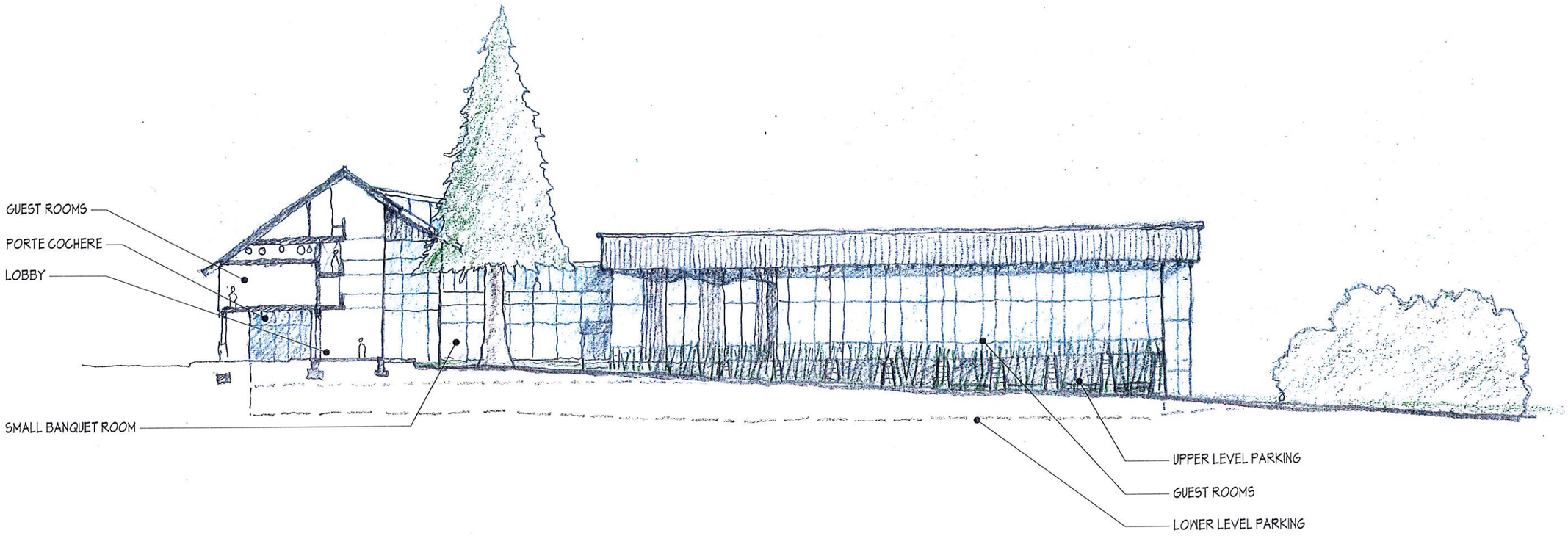
0 16' 32 64'



WINSLOW WAY ELEVATION

WINSLOW WAY HOTEL
CUTLER ANDERSON ARCHITECTS
SEPTEMBER 5, 2017

0' 16' 32' 64'



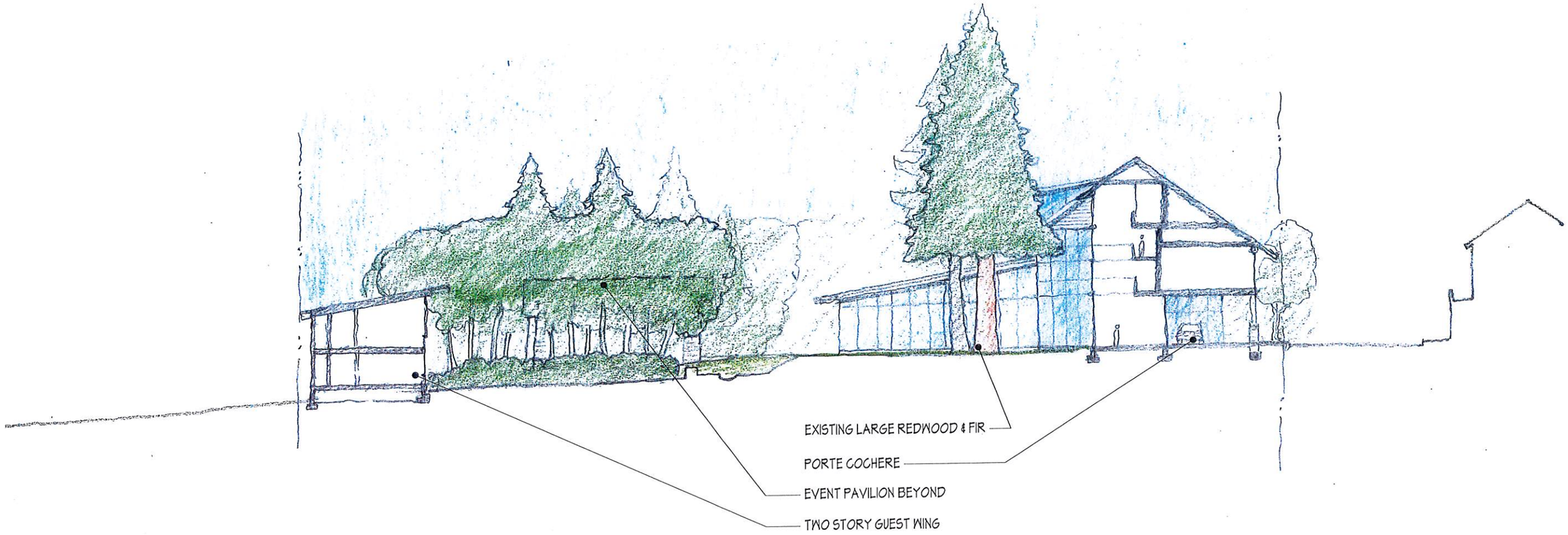
SECTION LOOKING EAST

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

0' 16' 32' 64'



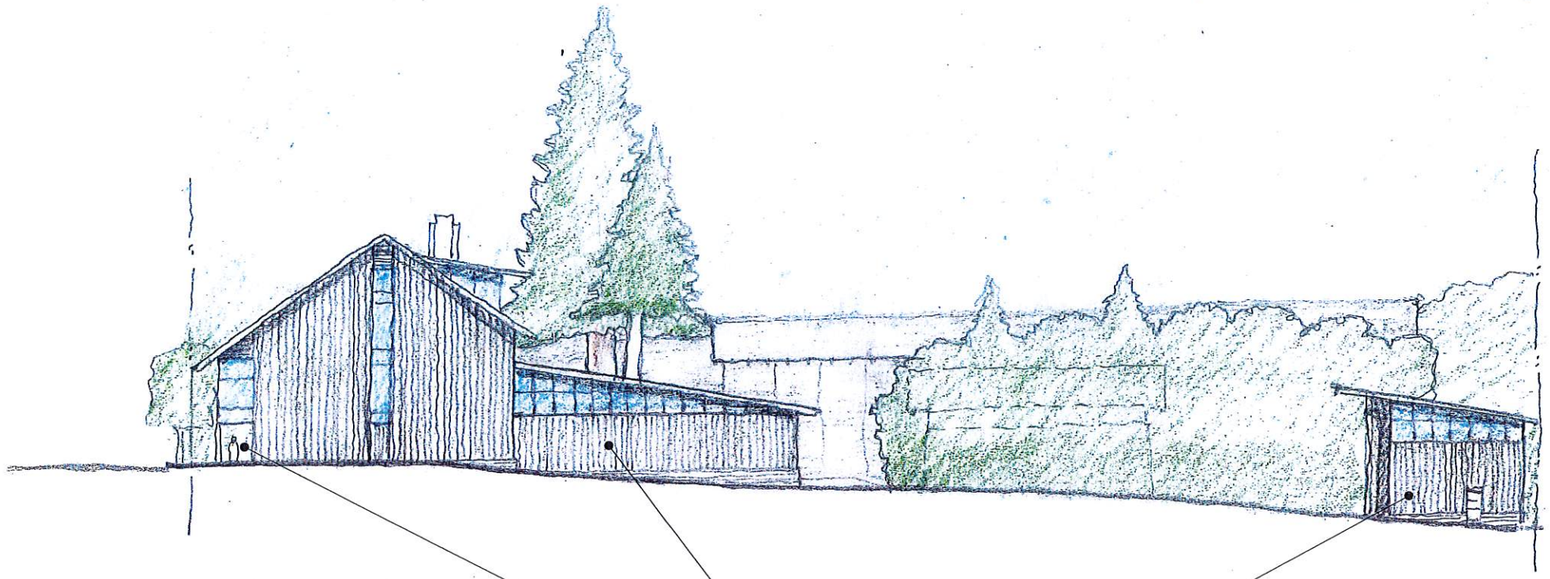
SECTION LOOKING WEST

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

0' 16' 32' 64'



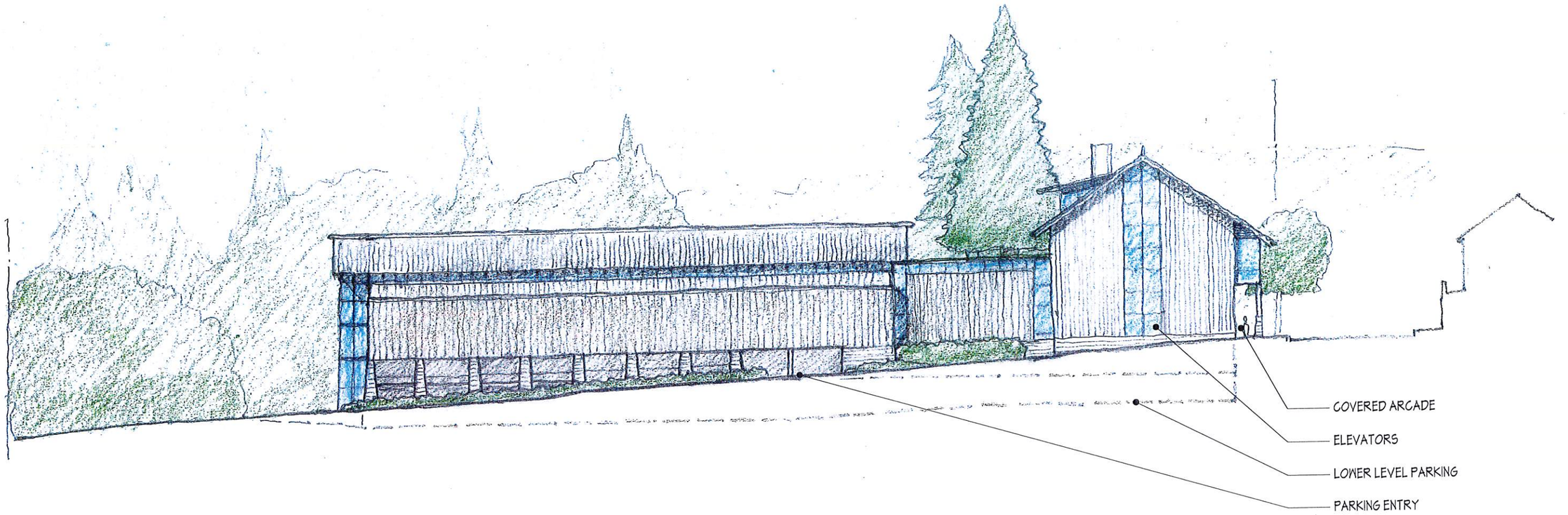
WEST ELEVATION

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

0 18' 32' 64'



EAST ELEVATION

WINSLOW WAY HOTEL

CUTLER ANDERSON ARCHITECTS

SEPTEMBER 5, 2017

0 16' 32' 64'