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R & M ENGINEERING, INC. 6205 GLACIER HIGHWAY JUNEAU, AK. 99801 Fax 907-780-4611 mengineering@rmiunegu.com



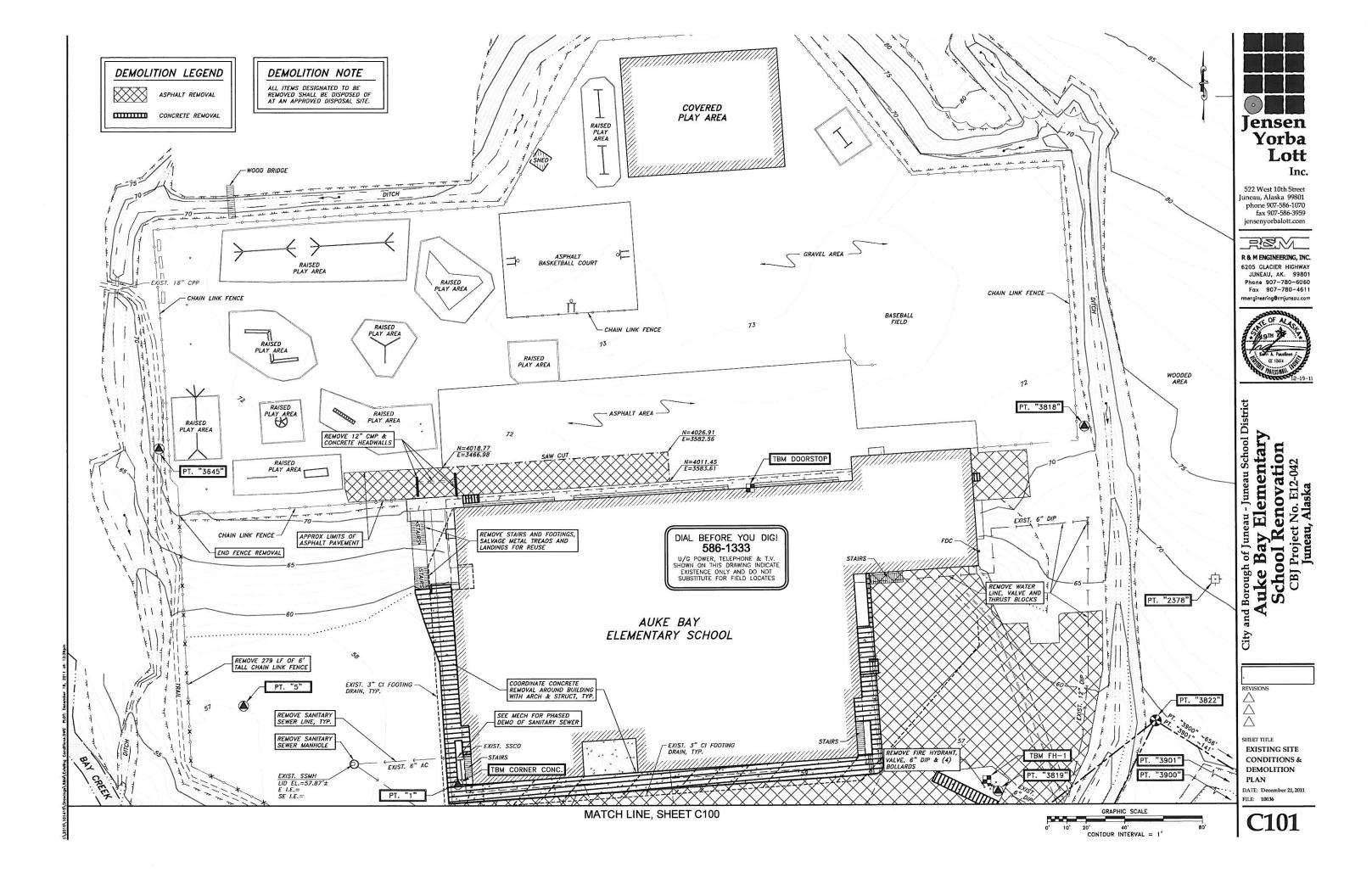
Auke Bay Elementary
School Renovation
CBJ Project No. E12-042
Juneau, Alaska

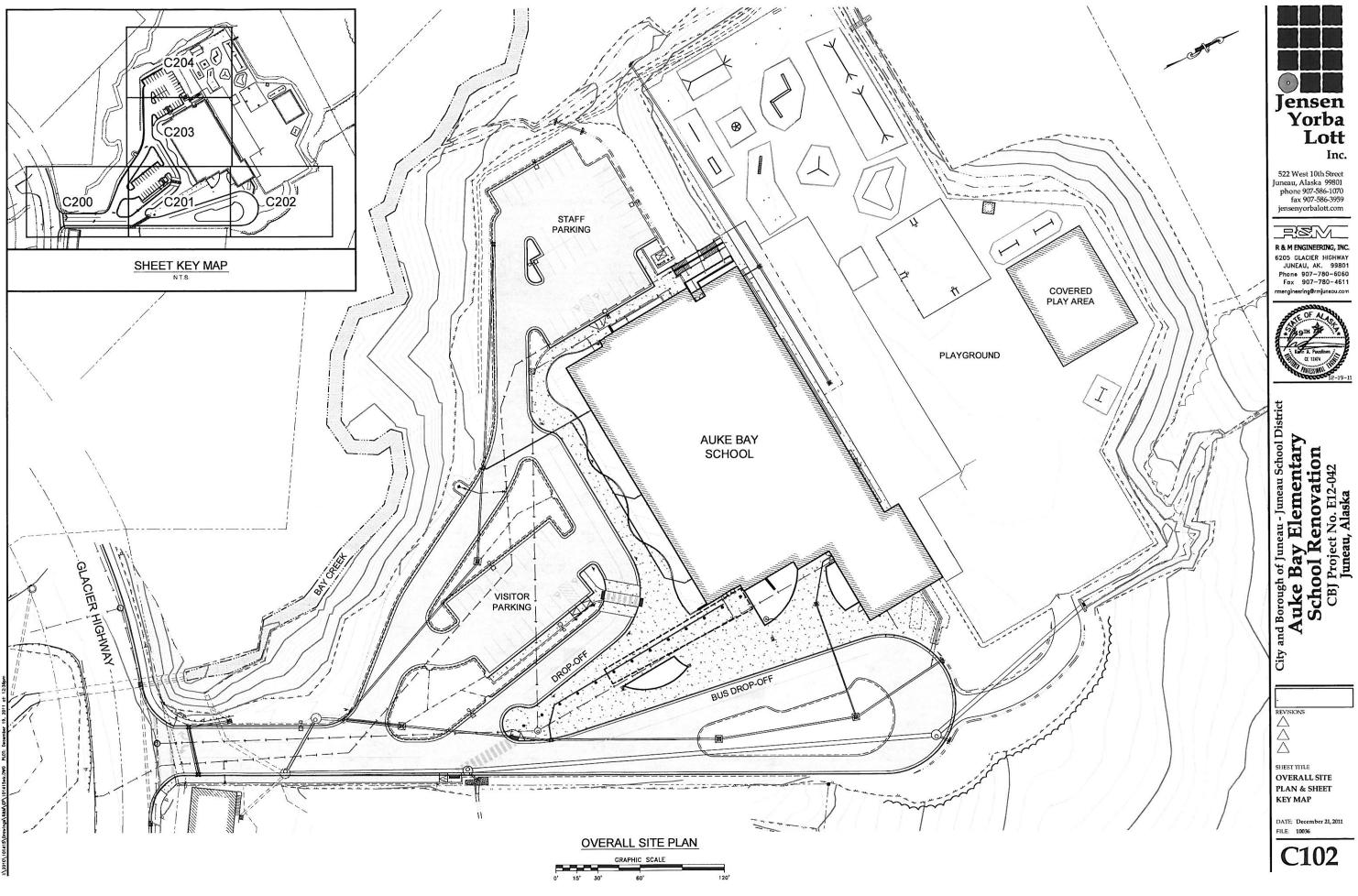
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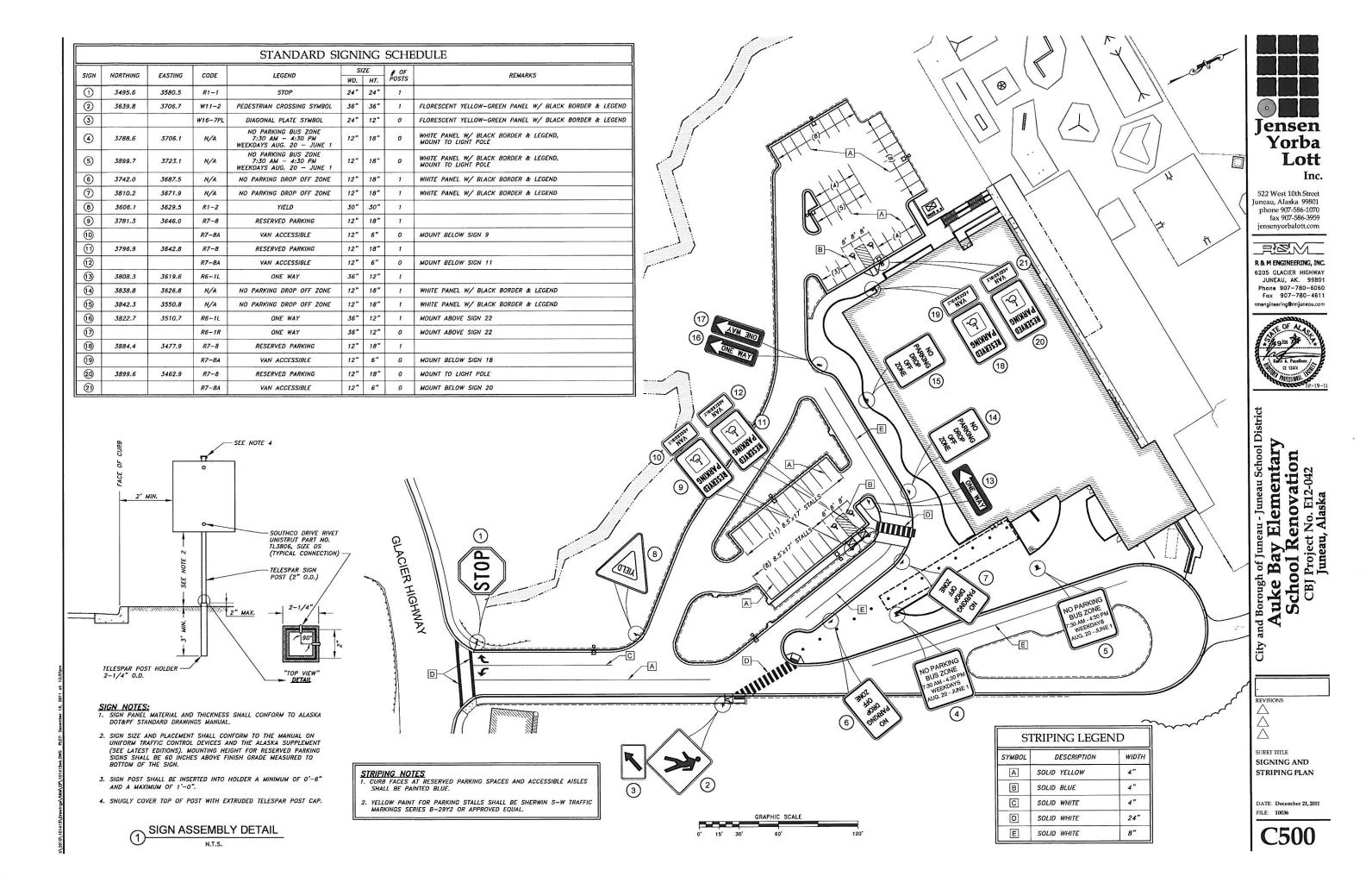
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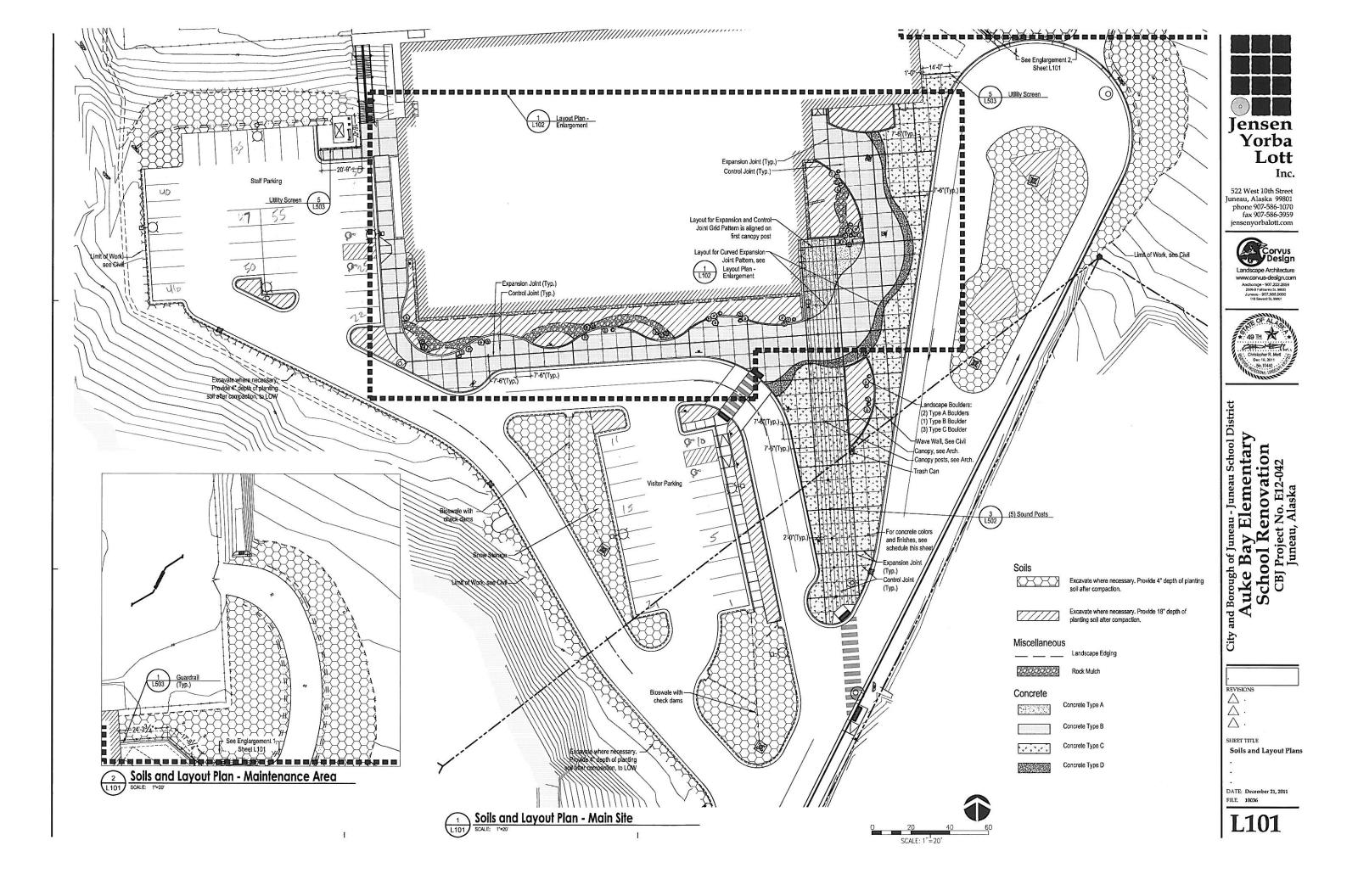
EXISTING SITE CONDITIONS & DEMOLITION PLAN DATE: December 21, 2011 FILE: 10036











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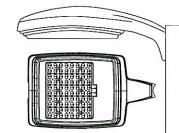


Gullwing LED

Page I of 3

GLI3 Area Luminaires

Philips Gardco Gullwing LED luminaires combine LED performance excellence and advanced Philips Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting that is both energy efficient and aesthetically pleasing. The Philips Gardco Gullwing LED is defined by its high performance, sleek profile and rugged construction. The housing is one-piece, die cast aluminum and mounts directly to a pole or wall without the need of a separate support arm. The advanced LED optical systems provide IES Types II, III, IV and V distributions. The luminaire features a state of the art integral thermal control system to maximize LED performance and life, and to extend component life. All LED wattages utilize high performance Class I LED systems. The door frame is single-piece die cast aluminum, and includes a tempered glass lens. Luminaires are finished with a fade and abrasion resistant TGIC powdercoat. Gullwing LED luminaires provide full cutoff performance.



PREFIX	MOUNTING	OPTICAL SYSTEM	LED WATTAGE	LED SELECTION	VOLTAGE	FINISH	OPTIONS
			-				
Enter the order code in	nto the abbrobriate box o	above. Note: Philips C	Gardco reserves the right	to refuse a configuration. I	Not all combinations and	d configurations are	

Enter the order code into the appropriate box above. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

Complete Luminaires

GL13 13'

13" Gullwing LED Luminaire - Constant Wattage

GL13-DIM

13" Gullwing LED Luminaire - with 0-10V Dimming

Retrofit Kits for existing Gullwing 13" HID luminaires are available. See Legacy LED Retrofit Kits Submittal Data Sheet (G200-21) for Retrofit Kit information.

MOUNTING

Single Pole Mount Twin Pole Mount at 180°

4 4-way Pole Mount
W Wall Mount, Recessed J-box

WS Wall Mount, Surface Conduit

I. Not available with PTF option.

2. Optics are field rotatable.

OPTICAL SYSTEM

Type III

Type IV

Type V

3. Features unitized lens.

LED WATTAGE AND LUMEN VALUES

Ordering	Average		l LED	Luminaire Initial Absolute Lumens ^{5,6}				
Code	System Watts ⁴	Current (mA)	Selection	TYPE 2	TYPE 3	TYPE 4	TYPE 5	Basis of Lumen Data
701.0	70LA 71.2 35	250	cw	5,858	6,177	6,008	5,853	Photometric tests performed in compliance with IESNA LM-79.
/ULA		71.2 350	NW	5,636	5,854	5,696	5,479	
85LA	85.9 350	250	cw	7,531	7,714	7,495	7,384	to the second second
		NW	6,973	7,143	6,940	6,837		

- 4. Wattage may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
- 5. Values shown are for luminaires without the HS external shield option. Tests are in process for luminaires with the HS option and WW luminaires.
- Contact Gardco.applications@philips.com if approximate estimates are required for design purposes.
- 6. LED arrays feature LEDs that provide from 100 to 130 lumens per watt when operated at 350 mA. Lumen values based on tests performed in compliance with IESNA LM-79.

1611 Clovis Barker Road, San Marcos, TX 78666

(800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 sitelighting.com

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G200-017/0811

ATTACHMENT D







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GLI3Area Luminaires

LUMINAIRE CONFIGURATION INFORMATION

GL13: Philips Gardco Gullwing 13" LED standard luminaire providing constant wattage and constant light output when power to the luminaire is energized.

GLI3-DIM: Philips Gardco Gullwing 13" LED luminaire provided with 0 -10V dimming for connection to a control system provided by others.

SPECIFICATIONS

GENERAL DESCRIPTION: The Philips Gardco Gullwing LED is defined by its high performance, sleek profile and rugged construction. The housing is one-piece, die cast aluminum and mounts directly to a pole or wall without the need of a separate support arm. Gullwing LED luminaires combine LED performance excellence and advanced Philips Gardco LED thermal management technology with the distinct Gullwing style to provide outdoor area lighting and pedestrian scale lighting that is both energy efficient and aesthetically pleasing.

HOUSING: A one-piece die cast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form reduces the effective projected area of the luminaire to only $0.8~{\rm ft}^2$ / .07 m².

LED RELIABILITY:

G200-017/0811

PREDICTED LUMEN DEPRECIATION DATA					
Ambient Temperature °C	LED Wattage / Driver mA	L ₇₀ Hours ¹³			
25 °C	70LA or 85LA / 350 mA	150,000			
40 °C	70LA or 85LA / 350 mA	100,000			

13. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions, L₇₀ is the predicted time when LED performance depreciates to 70% of initial larges guide.

THERMAL MANAGEMENT: The Philips Gardco Gullwing LED provides extruded aluminum integral thermal radiation fins to provide the excellent thermal management so critical to long LED system life.

OPTICAL SYSTEMS: Lensed LED arrays are set to achieve IES Type II, Type III, Type IV and Type V distributions. Individual LED arrays are replaceable. Types II, III and IV optical systems are field rotatable. Luminaires feature high performance Class I LED systems, and include a tempered glass lens.

ELECTRICAL: Luminaires are equipped with an LED driver that accepts 120V through 277V, or 347V through 480V, 50hz to 60hz, input. Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 302°F / 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state.

FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

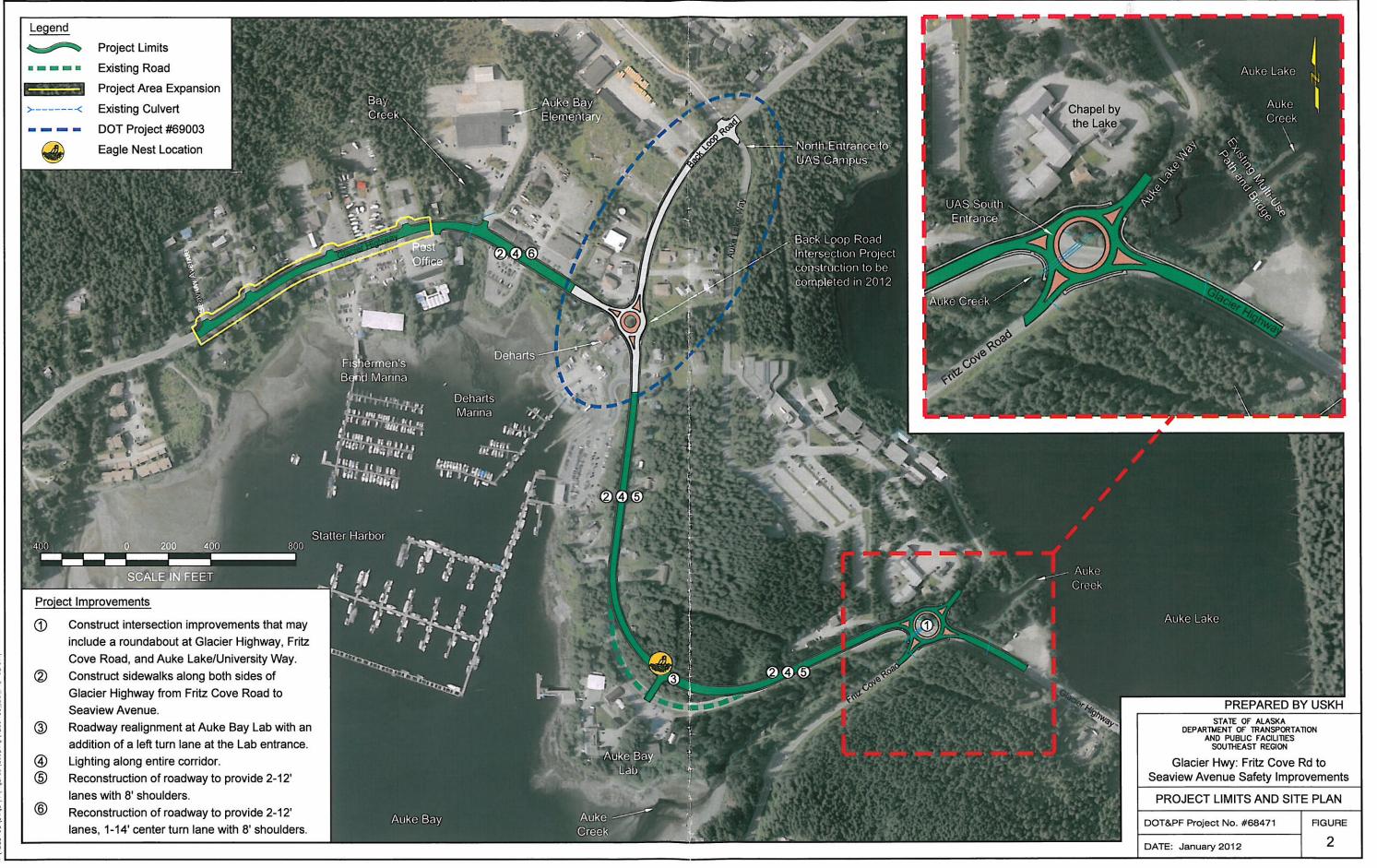
WARRANTY: Philips Gardco luminaires feature a 5 year limited warranty. Philips Gardco LED luminaires with LED arrays feature a 5 year limited warranty covering the LED arrays. See Warranty Information on www. sitelighting.com for complete details and exclusions.

FULL CUTOFF PERFORMANCE: Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle at or above 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

CUTOFF PERFORMANCE: Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

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Eric Feldt

From:

Dan Jager

Sent: Tuesday, March 13, 2012 3:05 PM

To: Eric Feldt

Cc: Rich Etheridge; Sven Pearson; Catherine Wilkins

Subject: RE: Auke Bay Ele. Sch. Remodel

Eric, thanks for passing this along for review. Yes, it looks like improved access towards the back of the school would help us out. By getting our apparatus to an area that is a little shorter is a big help and our ground ladders should be able to access the roof area in this portion of the school. Thanks. Dan

From: Eric Feldt

Sent: Tuesday, March 13, 2012 10:24 AM

To: Dan Jager

Cc: Rich Etheridge; Sven Pearson

Subject: RE: Auke Bay Ele. Sch. Remodel

Dan,

With a new driveway being constructed towards the back of the school building that will enable access near the front (taller part of the building), will the height issue still be a concern? The attachment is of drawings pertinent for Planning Commission review. This back access driveway is shown on the second and last pages.

Sincerely,

Eric Feldt, Planner II, C.F.M. Community Development Dept. 155 South Seward Street City & Borough of Juneau, Alaska Ph: (907) 586-0764 Fax: (907) 586-3365



Please consider the environment before printing this email.

From: Dan Jager

Sent: Monday, January 30, 2012 2:07 PM

To: Eric Feldt; Charlie Ford; Ron King; Heather Marlow; 'Greg Browning'

Cc: Rich Etheridge; Sven Pearson

Subject: RE: Auke Bay Ele. Sch. Remodel

Good afternoon Eric. The Fire Chief wanted me to relay that if the building is going to increase in height that it will start impacting fire department operations and the need for an aerial ladder truck will need to be in play. This is a concern for the fire department for any buildings that are over 35 feet in height. A new ladder truck runs about \$1.2 million at this time and we do not have any ladders tall enough at the Auke Bay station that is the closest station to this building. It is a big deal as far as Insurance Service Organization (ISO) is concerned with regards to the fire departments ability to adequately provide fire response should a significant fire occur in this building. We are several years away from being able to purchase a new ladder truck at this time. Let me know if you need any further information. Thanks for the chance to comment.

3/13/2012

ATTACHMENT F

Dan

From: Eric Feldt

Sent: Monday, January 30, 2012 11:11 AM

To: Dan Jager; Charlie Ford; Ron King; Heather Marlow; 'Greg Browning'

Subject: Auke Bay Ele. Sch. Remodel

I am reviewing a City consistency permit for the remodeling of Auke Bay Elementary School building and site. I have attached some site plans, floor plans, and elevation drawings in this email. There are plenty more detailed drawings too. In short, nearly the whole building is being renovated with the same number of classrooms, a new gymnasium, larger library, and larger HVAC penthouses (taller building: +40 feet). The entire parking lot is being reconfigured with two separate driving lanes: one for buses and one for parents; two separate parking lots: one for staff and one for visitors.

My review at this time is only to determine if the project is consistent with the Land Use Code and the Comprehensive Plan. If you have any recommendations that may result in substantial changes to the number of classrooms, building mass/ height, parking areas, or other items the commission needs to know please let me know.

Please submit any comments you may have by next Monday, February 6th. Also, please let me know if you want to see any other building/ site plans.

Thank you,

Eric Feldt, Planner II, C.F.M. **Community Development Dept.** 155 South Seward Street City & Borough of Juneau, Alaska Ph: (907) 586-0764 Fax: (907) 586-3365



Please consider the environment before printing this email.