

MILWAUKIE PLANNING 6101 SE Johnson Creek Blvd

Milwaukie OR 97206 503-786-7630 planning@milwaukieoregon.gov

Application for Land Use Action

Master File #: CSU-2021-005

State/Zip: OR 97222

Review type*: 0 | 0 || 0 || 0 V

CHECK ALL APPLICATION TYPES THAT APPLY:		
Amendment to Maps and/or	Land Division:	Residential Dwelling:
Ordinances:	Final Plat	Accessory Dwelling Unit
Comprehensive Plan Text Amendment	Lot Consolidation	Duplex
Comprehensive Plan Map	Partition	Manufactured Dwelling Park
Amendment	Property Line Adjustment	Temporary Dwelling Unit
Zoning Text Amendment	🗆 Replat	Sign Review
Zoning Map Amendment	Subdivision	Transportation Facilities Review
Code Interpretation	Miscellaneous:	Variance:
X Community Service Use	Barbed Wire Fencing	Use Exception
Conditional Use	Mixed Use Overlay Review	Variance
Development Review	Modification to Existing Approval	Willamette Greenway Review
Director Determination	Natural Resource Review**	
Downtown Design Review	Nonconforming Use Alteration	Use separate application forms for:
Extension to Expiring Approval	Parking:	Annexation and/or Boundary Change
Historic Resource:	Quantity Determination	Compensation for Reduction in Property
Alteration	Quantity Modification	Value (Measure 37)
Demolition	Shared Parking	Daily Display Sign
Status Designation	Structured Parking	Appeal
Status Deletion	Planned Development	

RESPONSIBLE PARTIES:

APPLICANT (owner or other eligible applicant-see reverse): North Clackamas School District C/O Ron Stewart

Mailing address: 12400 SE Freeman Way, Milwaukie

Phone(s): 503-353-6004

Please do not include my contact information on public notices or on the City website:

APPLICANT'S REPRESENTATIVE (if different than above): 3J Consulting C/O Mercedes Serra

Mailing address: 9600 SW Nimbus Avenue, Suite 100, Beaverton State/Zip: OR 97006

Phone(s): 503-946-9365 x211

Email: mercedes.serra@3j-consulting.com

SITE INFORMATION:

Address: 2301 SE Willard Street

Map & Tax Lot(s): 11E36BC05600

Email: stewartro@nclack.k12.or.us

Comprehensive Plan Designation: P, C/HD

Size of property: 14.65 acres

PROPOSAL (describe briefly):

NCSD is proposing an adjustment to the sign code to permit an electronic message sign at

Milwaukie High School.

SIGNATURE:

ATTEST: I am the property owner or I am eligible to initiate this application per Milwaukie Municipal Code (MMC) Subsection 19.1001.6.A. If required, I have attached written authorization to submit this application. To the best of my knowledge, the information provided within this application package is complete and accurate.

Zonina: R-2

Submitted by:

9/27/21 Date:

IMPORTANT INFORMATION ON REVERSE SIDE

*For multiple applications, this is based on the highest required review type. See MMC Subsection 19.1001.6.B.1.

WHO IS ELIGIBLE TO SUBMIT A LAND USE APPLICATION (excerpted from MMC Subsection 19.1001.6.A):

Type I, II, III, and IV applications may be initiated by the property owner or contract purchaser of the subject property, any person authorized in writing to represent the property owner or contract purchaser, and any agency that has statutory rights of eminent domain for projects they have the authority to construct.

Type V applications may be initiated by any individual.

PREAPPLICATION CONFERENCE:

A preapplication conference may be required or desirable prior to submitting this application. Please discuss with Planning staff.

REVIEW TYPES:

This application will be processed per the assigned review type, as described in the following sections of the Milwaukie Municipal Code:

- Type I: Section 19.1004
- Type II: Section 19.1005
- Type III: Section 19.1006
- Type IV: Section 19.1007
- Type V: Section 19.1008

****Note**: Natural Resource Review applications **may require a refundable deposit**. Deposits require completion of a Deposit Authorization Form, found at <u>www.milwaukieoregon.gov/building/deposit-authorization-form</u>.

FILE TYPE	FILE NUMBER	AMOUNT (after discount, if any)	PERCENT DISCOUNT	DISCOUNT TYPE	DATE STAMP
Master file	CSU-2021-005	_{\$} 2,000	100%	waived by City Manager	materials received
Concurrent application files		\$			10/05/21
		\$			
		\$			
		\$			
Deposit (NR only)				Deposit Autho	orization Form received
TOTAL AMOUNT RECEIVED: \$ 0			RECEIPT #:		RCD BY:
Associated appli	cation file #s (app	peals, modificat	ions, previous c	pprovals, etc.):	
Neighborhood D	istrict Associatio	n(s): Historic M	lilwaukie		
Notes:					

THIS SECTION FOR OFFICE USE ONLY:

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Attachments

Attachment A – Land Use Application Form Attachment B – Technical Sign Plans Attachment C – Sign Rendering

GENERAL INFORMATION

Property Owner and Applicant:	North Clackamas School District 12400 SE Freeman Way Milwaukie, OR 97222
	Contact: Ron Stewart Phone: (503) 353-6004
Planning Consultant:	3J Consulting, Inc. 9600 SW Nimbus Avenue, Suite 100 Beaverton, OR 97008

Beaverton, OR 97008 Contact: Mercedes Serra Phone: (503) 946-9365 Email: mercedes.serra@3j-consulting.com

SITE INFORMATION

Parcel Number:	11E36BC05600
Address:	2301 SE Willard Road
Size:	14.65 acres
Zoning Designation:	R-2 (Residential)
Existing Use:	Milwaukie High School

1 MILWAUKIE HIGH SCHOOL SIGN CODE APPLICATION | 3J CONSULTING, INC.

INTRODUCTION

APPLICANT'S REQUEST

The North Clackamas School District is proposing to install an electronic reader sign at Milwaukie High School and seeks approval of a Type III Sign Application in conformance with the allowances of Subsection 14.80.90.E. This narrative has been prepared to describe the proposed development and to document compliance with the relevant sections of Milwaukie's Municipal Code.

SITE DESCRIPTION/SURROUNDING LAND USE

Milwaukie High School is located at 2301 SE Willard Road in the City of Milwaukie. The state tax identification for the site is 11E36BC05600. The site is approximately 14.65 acres in size and is zoned R-2 (Residential). The proposed sign will be located in the southwestern portion of the High School property, at the northeast corner of SE Willard Road and SE 23rd Avenue where the parking lot for the main entrance is located. The area where the sign will be located is across SE Willard Road from a multi-family housing development in the R-2 zone to the south. Properties to the west of this portion of the high school site are zoned DMU (Downtown Mixed Use) and are developed with commercial property. To the north and east of where the sign is proposed is the Milwaukie High School campus.

PROPOSAL

The North Clackamas School District is proposing Type III Sign Permit Application to permit an electronic message sign at Milwaukie High School (MHS). The Applicant has previously requested approval of precisely the same sign at the same location prior to a recent code amendment to Title 14 of the Milwaukee Municipal Code pertaining to electronic signs at high school locations. This previous application was for an adjustment to the sign code criteria pursuant to Subsection 14.32 Adjustments and was denied at the Planning Commission level. The proposal for which this narrative concerns does not request an Adjustment – it seeks approval by way of compliance with the recent amendments to Subsection 14.80.90.E.

Milwaukie High School is not just a public school. It is a large, publicly owned, multifunctional venue that provides Milwaukie citizens appropriately sized spaces for theatrical performances, athletics (in the gym or on the fields and stadium), and meetings of all sizes. The high school is also a Clackamas County Category 4: Critical/Essential Building that will be used in case of a major earthquake (generator power is available to power an electronic reader sign).

The sign would provide a service to the community in promoting events of interest to Milwaukie residents. Specifically, the sign would provide promotion of the arts through events that are often hosted by the Milwaukie Academy of the Arts and Milwaukie High School, who both share the same campus.

An electronic reader board sign at this site would be used to provide school and citywide information serving both the high school and the Milwaukie community. The approval of the sign permit to allow an electronic reader board at Milwaukie High School would apply only to this site as it is a unique, multi-purpose, publicly owned campus broadly serving the citizens of the City and built to serve as a Category 4: Critical/Essential Building for the community during a disaster.

APPLICABLE CRITERIA

The following sections of Milwaukie's Municipal Code have been extracted as they have been deemed to be applicable to the proposal. Following each bold applicable criteria or design standard, the Applicant has provided a series of draft findings. The intent of providing code and detailed responses and findings is to document, with absolute certainty, that the proposed development has satisfied the approval criteria for a Type III Sign Permit application.

TITLE 14 SIGNS

CHAPTER 14.04 GENERAL PROVISIONS 14.04.020 PURPOSE

The Council of the City of Milwaukie, Oregon, finds and declares that it is necessary to regulate the design, quality of materials, construction, installation, maintenance, electrification, illumination, type, size, number, and location of all signs visible from a right-of-way or lot under other ownership in order to:

- A. Protect the health, safety, property and welfare of the public;
- B. Promote the neat, clean, orderly and attractive appearance of the community;
- C. Provide for the safe installation and maintenance of signs;
- D. (Repealed by Ord. 1965);
- E. Preserve and enhance the unique scenic beauty of Milwaukie;
- F. Accommodate the need of sign installers while avoiding nuisances to nearby properties;
- G. Ensure safe construction, location, installation, and maintenance of signs;
- H. Prevent proliferation of sign clutter;
- I. Minimize distractions for motorists on public highways and streets;
- J. Regulate solely on the basis of time, place, and manner of a sign, not on its content; and
- K. Coordinate review where multiple agencies have review authority for a sign permit.

Applicant's The proposed electronic message sign at Milwaukie High School will comply with all provisions of this purpose statement. Approval of this proposal to allow the electronic sign in conformance with 14.80.90.E. will allow greater protection of the health, safety, property and welfare of the public in disseminating emergency information clearly and quickly.

Milwaukie High School is an emergency community shelter in times of natural disaster and portions have been built to serve as a Category 4: Critical/Essential Building. In the case of a major earthquake, electrical, telephone and cell phone service may not be available. In the case of such outages, an electronic reader board powered by a generator would provide essential information to the Milwaukie community, including direction to those looking for food, shelter or services.

The approval of this proposal to allow an electronic reader board at Milwaukie High School, a Critical/Essential Building is only applicable to one site in the City, as it is the only public high school in the City limits (and the only public high school that is a Critical/Essential Building). Approval of this proposal meets the sign code purpose of protecting the health, safety, property and welfare of the public. Approval of this proposal is also inherently limited to just this one site in that it is the only site where an electronic reader board would directly serve the high school population *and* the Milwaukie community.

The sign would be well-maintained and kept neat, clean and orderly and be designed with an attractive appearance for the Milwaukie community, enhancing the unique scenic beauty of the City. The sign would be safely located and installed in an area free of sign clutter and without nuisance to nearby properties. As the sign would be located at SE 23rd and SE Willard, an intersection most heavily traveled by students, parents and teachers during school sessions, there is little concern of distractions for motorists on public highways and streets.

The City of Milwaukie has the sole review authority for an electronic display sign permit on this site, and approval of a sign code proposal to allow an electronic reader sign on this site would represent the City's regulation solely on the basis of time, place, and manner of the sign and not its content. The proposed sign permit and resultant electronic reader sign at Milwaukie High School meets all of the components of the sign code purpose statement.

CHAPTER 14.08 ADMINISTRATION AND ENFORCEMENT

14.08.90 CONDITIONAL AND COMMUNITY SERVICE USE SIGNS

- A. Signs for conditional and community service uses shall be limited to those allowed in the underlying zone, except as allowed by Subsections 14.08.090.B and C.
- B. The standards of the underlying zone may be increased to the standards in Table 14.08.090.B, pursuant to a Type I review.

Table 14.08.090.B							
Standards f	Standards for Conditional and Community Service Use Signs with Type I Review						
Sign Type	Size	Number	Height	Location			
Monument or	Max. 16 SF per	1	Max 6 ft. above	Not in the public right-of-way			
freestanding sign	display surface		ground				
Wall sign	Max. 16 SF	1 per building					
		face					
Daily Display	Max. 12 SF per	1 per frontage		Not in the public right-of-way			
	display surface			except as allowed in MMC			
				Section 14.20.040.			

Applicant's The Applicant is not proposing a sign relevant to the criteria delineated in the above-mentioned provisions or in the accompanying Table 14.08.090.B. Please see below for the applicable standards.

C. The standards of the underlying zone may be increased to the standards in Table 14.08.090.C per Section 19.1006 Type III Review. In reviewing an application for a sign to meet the standards of Table 14.08.090.C, the Planning Commission will consider the proximity of the sign to residences, the functional classification of adjacent streets, and the scale of surrounding development.

Table 14.08.090.C Standards for Conditional and Community Service Use Signs with Minor Quasi-Judicial Review					
Sign Type	Size	Number	Height	Location	Illumination ¹
Monument or	Max. 40 SF per		Max 12 ft.	Not in the public right-	Follow the
freestanding sign	display surface	One	above ground	of- way	base sign district
	Max. length 20 ft				standards ²
Wall sign	10% of the	One per			Follow the base
	building face up	building			sign district
	to 40 SF	face			standards
Daily Display	Max. 12 SF per	One per		Not in the public right-	Follow the base
	display surface	frontage		of- way except as	sign district
				allowed in MMC	standards
				Section 14.20.040.	

1 Follow the illumination standards in the Community Service Use's base sign district unless the Community Service Use is a public high school.

2 A public high school can apply to have one electronic display monument or freestanding sign that meets the Community Service Use Illumination standards of 14.080.090.E.

Applicant'sPursuant to 14.04.030 of the Milwaukee Municipal Code, "display surface" is definedFindings:as:

"The area made available by the sign structure for the purpose of displaying the message."

Size/Display Surface

The monument sign contains two areas that comprise the display surface – one that is not an electronic reader area and one that is. The static portion of the display surface area is 22.54 square feet as measured on the provided plans, whereas the electronic reader area is 17 square feet. Together, the proposed monument sign contains a display surface of 39.54 square feet, which is under the 40 square foot maximum allowed by this standard. The combined length of both display surface areas is 11.52 lineal feet, which is well under the maximum display surface length of 20 feet provided by this standard.

<u>Location</u>

The site is not located in public right-of-way as demonstrated on the Site Plan provided alongside this narrative.

<u>Height</u>

Pursuant to 14.04.030 of the Milwaukee Municipal Code, "height" is:

"... measured from the highest point of the grade below the sign to the topmost point of the sign.

This standard requires that the sign be a maximum of 12' in height. The sign, as measured on the provided plans, is 4' 9" when measured from the highest point of the grade below the sign to the topmost point of the sign.

<u>Illumination</u>

Please see subsection E. below for compliance with this standard.

As described above, these requirements have been met.

D. In addition to the sign size limitations of this chapter, if an original art mural permitted under Title 20 occupies a wall where a wall sign has been proposed, the size of the wall sign shall be limited such that the total area of the original art mural plus the area of the wall sign does not exceed the maximum allowed.

Applicant's The subject sign proposal does not pertain to original mural art; therefore, this standard is not applicable.

- E. Electronic display signs are permitted for Community Service Uses that are public high schools, subject to the following standards:
 - An electronic display sign may be included only as part of a larger sign. The electronic display portion of the sign is a maximum combined area of twenty (20) sq ft. The display portions can be on multiple faces of the sign with a limit of a maximum combined area of twenty (20) sq ft.

Applicant's The electronic display portion of the sign as shown on the provided plans is 5' 4-1/2" (or 5.375') x 3' 2" (or 3.16') resulting in a total combined square footage of 16.99 square feet. This is under the maximum combined area of 20 sq ft. permitted by this standard. This standard is met.

2. Illumination for an electronic display sign is subject to the standards of Subsection 14.24.020.G.1.

Applicant's Compliance with this standard is addressed in Subsection 14.24.020.G.1. **Findings:**

3. The manner of display on electronic display signs shall comply with the standards of Subsection 14.24.020.G.3.

Applicant's Compliance with this standard is addressed in Subsection 14.24.020.G.3. **Findings:**

CHAPTER 14.12 SIGNS PROHIBITED OR EXEMPTED

14.12.020 PROHIBITED SIGNS

It is unlawful for any person to install, display or maintain, and no permit shall be issued for the installation, display or maintenance of, any sign or advertising structure falling within any of the following descriptions:

- R. Electronic display signs that display message or copy using any prohibited electronic display methods, as defined in Section 14.04.030.
- Applicant'sSection 14.04.030 defines "Prohibited electronic display" as "any part of the message
or display on an electronic display sign that utilizes the following methods of
presentation:

'Flash' means sudden or intermittent electrical illumination.

'Scroll' means the changing of an electronic display by the apparent movement of the visual image, such that a new visual image appears from the margins of the sign in a continuous or unfurling movement.

'Travel' means the changing of an electronic display by the apparent horizontal movement of the visual image.

'Video display' means providing an electronic display in horizontal or vertical formats to create continuously moving images."

The proposed electronic sign display will not utilize any of the prohibited methods of presentation. The presentation type will be light-emitting diodes (LEDs) consistent with electronic display signs at other high schools in North Clackamas School District. Therefore, the District does not propose a prohibited sign type with this sign permit application. This standard is met.

CHAPTER 14.24 SIGN CONSTRUCTION, MAINTENANCE, AND LIGHTING 14.24.020 SIGN LIGHTING

A. All lamps or bulbs exposed to direct view shall be limited to 25 watts or less capacity.

Applicant'sThe proposed electronic sign will have lamps or bulbs exposed to direct view at 25Findings:watts or less capacity. This standard is met.

B. When neon tubing is employed on the exterior or interior of a sign, the capacity of such tubing shall not exceed 300 milliamperes rating for white tubing nor 100 milliamperes rating for colored tubing.

Applicant's The proposed electronic sign will not contain neon tubing. This standard is met. **Findings:**

C. When fluorescent tubes are used for interior illumination of a sign, such illumination shall not exceed illumination equivalent to 800 milliamperes rating tubes behind a Plexiglas face with tubes spaced at least 9 inches apart, center to center.

Applicant's The proposed electronic sign will not contain fluorescent tubes. This standard is met. **Findings:**

D. Lighting from any sign may not directly, or indirectly from reflection, cause illumination on other properties in excess of 0.5 footcandles of light.

Applicant'sThe proposed electronic sign will not have lighting that will directly, or indirectly from
reflection, cause illumination on other properties in excess of 0.5 footcandles of light.
This standard is met.

E. In the event of a conflict between the standards in this section and a specific standard in the regulations for a sign district, the sign district regulations shall prevail.

Applicant'sThe approval of this Type III sign permit will not result in a conflict with these**Findings:**standards. This standard is met.

F. Other types of illumination not described by Subsections 14.24.020.A-C, such as lightemitting diodes and other similar technology, are allowed for interior or exterior illumination of a sign if all other regulations of Title 14 are met. **Applicant's**The proposed electronic sign will utilize light-emitting diodes (LEDs) for illumination**Findings:**in compliance with all other regulations of Title 14. This standard is met.

G. Electronic display signs are allowed in the Commercial Zone sign district (Section 14.16.040) and the Manufacturing Zone sign district (Section 14.16.050), subject to the standards below. Electronic display signs are allowed in the Downtown Zones sign district per Subsection 14.16.060.H.6 and the standards below.

1. Illumination

a. An electronic display sign may not have an illumination intensity of more than 0.3 footcandles over ambient light, measured at the distance specified by the following calculation:

Measurement distance = $\sqrt{sign face area \times 100}$

The measurement shall be taken as the difference in illumination between the electronic display sign turned off and the electronic display sign displaying either a solid white screen (for multicolor displays) or a solid single-color screen (for single-color display). To the degree practicable, the measuring device shall be parallel to the plane of the sign face and the measurement shall be made from a location that is perpendicular to the plane of the sign face. The specified distance shall be the shortest straight-line distance to the sign face, including horizontal and vertical distance from the sign if the sign is elevated.

b. The sign shall have a mechanism that automatically adjusts the illumination level to comply with the standards in Subsection 14.24.020.G.1.a.

c. In addition to the standards of Subsection 14.24.020.G.1.a, no electronic display sign shall be brighter than necessary for clear and adequate visibility, or of such brilliance or intensity as to present a hazard to persons traveling in the right-of-way. Upon notice by the Planning Director that a sign is out of compliance with these standards, the owner or operator of an electronic display sign shall immediately adjust the illumination of the sign.

2. Size

a. Electronic display signs on properties north of the centerline of Highway 224 which also have frontage on McLoughlin Blvd, Main St, or Frontage Rd are subject only to the applicable size limits elsewhere in Title 14. Subsection 14.24.020.G.2.b does not apply.

b. An electronic display sign in the Commercial Zone sign district or Manufacturing Zone sign district, with the exception of the McLoughlin Blvd corridor described in Subsection 14.24.020.G.2.a, may be included only as part of a larger sign, and the electronic display portion of the sign is subject to the more restrictive of the size limitations below:

(1) 50% of the size of the sign face that contains the electronic display sign, abuts the electronic display sign, or is on the same sign structure as the electronic display sign.

(2) 50 sq ft.

c. Size regulations for signs in the Downtown Zones sign district are as described in Subsection 14.16.060.H.6.

3. Display

a. The message or copy on an electronic display sign is allowed to change no more frequently than described below:

(1) Not more than once every 10 seconds for an electronic display sign with a sign face of 20 sq ft or less, or for any size of electronic display sign on a property in the McLoughlin Blvd corridor described by Subsection 14.24.020.G.2.a.

(2) Not more than once every 2 minutes for electronic display signs not described by Subsection 14.24.020.G.3.a(1).

b. The change in message or copy may occur instantaneously or may fade or dissolve with a transition time of no more than 2 seconds between each separate message or display.

Applicant's Findings: The proposed electronic sign will not have an illumination intensity over ambient light of more than 0.3 footcandles, measured according to the provisions of G.1.a., above. The sign will have a mechanism that automatically adjusts the illumination level to limit the intensity level over ambient light to 0.3 footcandles or less and shall be no brighter than necessary for clear and adequate visibility. The proposed electronic display area will be sized to comply with the code standards. The message or copy on the electronic sign will meet the requirements for frequency of change. The change in message or copy will occur instantaneously or will face or dissolve with a transition time of no more than 2 seconds between each separate message or display. These standards are met.

H. Shielding

The purpose of the regulations below is to prevent light pollution from illuminated signs into the sky. The light source for externally illuminated signs with a sign face of 100 sq ft or more shall have a cutoff angle of 90 degrees or greater to ensure that lighting is not directed upward.

Applicant'sThe proposed electronic sign will not have a sign face of 100 square feet or more and,**Findings:**therefore, this standard is not applicable.

SUMMARY AND CONCLUSION

Based upon the materials submitted herein, the Applicant respectfully requests approval from the City's Planning Commission for this Type III Sign Permit application.



MILWAUKIE HIGH SCHOOL

ELECTRONIC READER BOARD RENDERING

MILWAUKIE HIGH SCHOOL NORTH CLACKAMAS SCHOOL DISTRICT 2301 SE Willard Street, Milwaukie, OR 97222

CONTENTS



MONUMENT SIGN

12/15/21

OWNER NORTH CLACKAMAS SCHOOL DISTRICT

t (503) 353-5830 f: (503) 353-5846

architect BRIC Architecture Inc. 1233 NW Northrup Street, Suite 100 Portland, Oregon 97209 (503) 595 4900 Ian Reynolds

BR IC

Project #17010

MILWAUKIE HIGH SCHOOL MONUMENT SIGN 12/15/21

SHEET LIST

Ax2.01

Ax2.02

E0.03

E0.04

E6.02

CONCRETE

ELECTRICAL E0.02 LL

Ax2.00 COVERSHEET / SITEPLAN

LIGHTING SCHEDULE SITE PLAN - ELECTRICAL

PRECAST ARCHITECTURAL CONCRETE, SECTION 03 45 00 - PRECAST ARCHITECTURAL

DEFERRED SUBMITTAL LIST

MONUMENT SIGN PLANS & SECTIONS MONUMENT SIGN DETAILS

LUMINAIRE SCHEDULE - ELECTRICAL

PANEL SCHEDULES - ELECTRICAL



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D			5'-6.3" 5'-3.0"				2'-0.1' 	'1'-()	6.1"			D
с		3'-1.8"			-9.9"	3'-7.7" 3'-5.1"	see de		+1'-2.2" -1'-2.2"+			С
	-		FRONT VIEV	V	<u>SIDE VIE</u>	W	1	BAC	<u> VIEW</u>			
ם	<note> 1. IN ORDER T ANGLE BET 2. VENT COVE 3. EYEBOLTS S 4. EYEBOLTS S 5. SEE POWER 6. MEGA IS NE 7. VENT LOCA INCASE THE</note>	MAINTAIN THE STRUCTU YEEN THE LIFTING METHO PERIODICALLY CLEANED HALL BE REMOVED AFTEF AY NOT BE USED FOR PE RATINGS ABOVE RESPONSIBLE FOR THE ION IS APPROXIMATE. IT I VENT LOCATION IS CRITIC	JRE OF THE SIGN CABINET, DD AND THE CABINET D ENSURE PROPER VENTIL R INSTALLATION RMANENT INSTALLATION MAIN ELECTRICAL DISCON MAY BE CHANGED WITHOU CAL FOR INSTALLATION. PL	USE SPREADER BEAM A ATION NECT T NOTICE. EASE CONTACT YOUR S	ND MAINTAIN A 9 ALES TO CONFIRI	0° THE CONCEPTS EXPRESSED DETAILS SHOWN ON THIS DRA CONFIDENTIAL AND PROPRIET DO NOT REPRODUCE BY ANY I WITHOUT THE EXPRESSED WF CONSENT OF MEGA LED TECH INC. COPYRIGHT 2018 M. MEGA LED, TECHNOLOGY, IM-	AND WING ARE ARY, WEANS NITTEN NOLOGY, APPO B' C. DSND B'	DDEL S4 9.25.2018 7 7 Raf.K	MODEL SPEC WEIGHT MPXX-35 184lb MPXX-35	UNIT	MHS CCD-93 12.15.2021 SHEET NO : 1 of Rev. 0 Image: Comparison of the product	D

CONSTRUCTION CHANGE DIRECTIVE

OWNER:Image: Second stateARCHITECT:Image: Second stateCONSULTANT:Image: Second stateCONTRACTOR:Image: Second stateFIELDImage: Second stateOTHERImage: Second state

This document is identical to AIA DOCUMENT G714

PROJECT:	CONTRACT INFO	ORMATION:	DIRECTIVE INFORMATION:		
Milwaukie High School	Contract For:	Construction	Directive Number:	093	
2301 SE Willard Street Milwaukie, OR 97222	Date:	08.11.2017	Date:	12.15.2021	
	Architect's Projec	t No: 17010			
OWNER:	FROM ARCHITE	CT:	TO CONTRACTOR	:	
North Clackamas School District	BRIC Architecture	e, Inc.	Skanska USA Build	ing	
12400 SE Freeman Way	1233 NW Northrup, Suite 100		3 NW Northrup, Suite 100 222 SW Columbia Street #300		
Milwaukie, OR 97222	Portland, OR 972	209	Portland, OR 9720	1	

The Contractor is hereby directed to make the following change(s) in this Contract:

Provide new MHS site sign per the attached drawings. Sign includes:

- Cast-in-place concrete foundation and plinth
- Salvaged and re-installed existing granite monument sign
- Recessed linear outdoor light for illuminating the existing granite monument sign
- Basis of Design: Inter-Lux Archiline-A Series Light, 3000K, with asymmetric optics, in 5'-0" length
- New electronic reader board
 - Basis of Design: Mega LED Technology Reader Board, model MPXX-35 with custom color frame finish
- Custom Perforated Aluminum Closure Panel
 - Basis of Design: Zahner .125 thick aluminum panel with inverted seam joints, KYNAR 5000 finish in custom color, with "Lattice" perforation
- Precast Concrete (Delegated Design) sign frame
 - Basis of Design: Michaels Precast Concrete, LLC, color and finish to match "Austin Hall"

PROPOSED ADJUSTMENTS

1. The proposed basis of adjustment within the Guaranteed Maximum Price is:

Unit Price of \$ 0 per unit of measure.

As provided in Section D.1.3, (c) of State of Oregon General Condition for Public Improvement Contracts, Not to exceed, (n.t.e.) \$0.

As follows: **TBD**

The Contract Time is proposed to remain unchanged. The proposed adjustment, if any, is an increase of <u>0</u> days) (a decrease of <u>0</u> days).

ATTACHMENTS:

ITEM:	PAGES:	DATE:
New Architectural sheets Ax2.00, Ax2.01, Ax2.02 and Electrical sheets E0.02, E0.03, E0.04, E6.02 clouded #CCD93	7	12.15.2021
Inter-Lux Lighting Achiline-A Series Light Cutsheets Mega LED Technology Model MPXX-35 Cutsheet	8 1	12.15.2021 12.15.2021

NOTE: The Owner, Architect and Contractor should execute a Change Order to supersede this Construction Change Directive to the extent they agree upon adjustments to the Contract Sum, Contract Time, or Guaranteed Maximum price for the change(s) described herein.

As noted above:

When signed by the Owner and Architect and received by the Contractor, this document becomes effective IMMEDIATELY as a Construction Change Directive (CCD), and the Contractor shall proceed with the change(s) described above.

Signature by the Contractor indicates the Contractor's agreement with the proposed adjustments in Contract Sum and Contract Time set forth in this CCD.

BRIC Architecture Inc.	North Clackamas School District	Skanska USA Building
1233 NW Northrup St, Ste 100	12400 SE Freeway Way	222 SW Columbia Street #300
Portland, Oregon 97209	Milwaukie, Oregon 97222	Portland, Oregon 97201
503-595-4900	503-353-6000	503-382-0900
ARCHITECT	OWNER	CONTRACTOR
Digitally signed by Dan Hess DN:C=US. E-dan hess@bito-arch.com, C=BRIC, OU=BRIC, C:N=Dan Hess		
SIGNA1 RE 11:18:58-08'00'	SIGNATURE	SIGNATURE
Dan Hess,	Kevin Moisan,	RJ Strength,
Principal	Program Manager	Project Manager
PRINTED NAME AND TITLE	PRINTED NAME AND TITLE	PRINTED NAME AND TITLE

DATE

DATE

DATE

_				LUMINAIRE SCH	EDULE						
Ε	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	BALLAST	LAMP(S)	INPUT WATTS	MFG/CATALOG #	NOTES
	SUSPENDED LOW PROFILE LED LINEAR LUMINAIRE WITH 70 DIRECT/S0 INDIRECT DISTRIBUTION	NOMINAL 7-5/8 INCHES WIDE BY 1-7/8 INCHES HIGH IN LENGTHS AS SHOWN ON DRAWINGS STEEL	FROSTED ACRYLIC DIFFUSER	SUSPENDED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	AS SELECTED BY ARCHITECT		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 877 LUMENS PER F00T, 3500K, 80 CRI	9.3 WATTS PER FOOT	FINELITE SERIES 18, LUMATO LIGHTING, CORELITE, LEDALITE OR APPROVED	
11	RECESSED ARCHITECTURAL 134° LED TROFFER WITH ANGLED DOOR AND DIFFUSE CENTER OPTICS	NOMINAL 12 INCHES WIDE BY 4 INCHES TALL BY 4 FOOT LONG STEEL.	FROSTED ACRYLIC DIFFUSER	RECESSED	WHITE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 3985 LUMENS, 3500K, 80 CRI	38 WATTS	FINELITE HPR LED SERIES, HE WILLIAMS, FOCAL POINT, LEDALITE OR APPROVED	
82	RECESSED ARCHITECTURAL 2W LED TROFFER WITH FLAT DOOR AND DIFFUSE CENTER OPTICS.	NOMINAL 24 INCHES WIDE BY 4 INCHES TALL BY 4 FOOT LONG STEEL.	FROSTED ACRYLIC DIFFUSER	RECESSED	WHITE		0-10 VOLT, ELECTRONIC	NOMINAL 3772 LUMENS, 3500K, 80 CRI	27 WATTS	FINELITE HPR LED SERIES, HE WILLIAMS, FOCAL POINT, LEDALITE OR APPROVED	+
C1	NARROW LINEAR RECESSED DIRECT LED	NOMINAL 3 INCHES WIDE BY 3.5 INCHES HIGH IN LENGTHS SHOWN ON DRAWINGS STEEL	FROSTED ACRYLIC	RECESSED	WHITE		0-10 VOLT, ELECTRONIC	NOMINAL 800 LUMENS PER FOOT, 3500K, 80 CRI	8 WATTS PER FOOT	LUMATO LIGHTING RS SERIES, LEDALITE, NEORAY, 3G LIGHTING OR APPROVED	+
C2	RECESSED ARCHITECTURAL LINEAR	NOMINAL 3.75 INCHES WIDE BY 1.75 INCHES TALL IN LENGTHS	FROSTED LAMBERTIAN	RECESSED	WHITE		DIMMING DRIVER 0-10 VOLT,	NOMINAL 750 LUMENS PER	7 WATTS PER	LUMENWERX SHALO SERIES OR APPROVED.	
<u></u>	DECESSED ADMUTECTURAL ASSAURETRIC LINEAR LED	SHOWN ON DRAWINGS EXTRUDED ALUMINUM	DIFFUSER	DEVEOSED	warre		ELECTRONIC DIMMING DRIVER	FOOT, 3500K, 80 CRI	FOOT	CACAL DART OCCULA CODICO I HINCHWODY	L
		ON DRAWINGS EXTRUDED ALUMINUM			WHILE .		ELECTRONIC DIMMING DRIVER	FOOT, 3500K, 80 CRI	PER FOOT	LEDALITE, NULITE OR APPROVED.	
C4	RECESSED ARCHITECTURAL LINEAR LED	NOMINAL 2.6 INCHES WIDE BY 4.5 INCHES TALL IN LENGTHS SHOWN ON DRAWINGS EXTRUDED ALUMINUM	REGRESSED FROSTED ACRYLIC	RECESSED	WHITE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 125 LUMENS PER FOOT, 3500K, 80CRI	2 WATTS PER FOOT	FOCAL POINT SEEM 2 SERIES, LUMENWERK, LEDALITE, NULITE OR APPROVED.	
D1	4 INCH RECESSED ARCHITECTURAL LED DOWNLIGHT	NOMINAL 4-INCH APERATURE, 13 INCHES WIDE BY 16 INCHES LONG BY 7 INCH HIGH GALVANIZED STEEL FRAME	SELF-FLANCED CLEAR MATTE DIFFUSE REFLECTOR	RECESSED	CLEAR MATTE DIFFUSE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 750 LUMENS, 3500K, 80 CRI	10.3 WATTS	GOTHAM LIGHTING EVO 4 SERIES, ELITE, PORTFOLIO, LIGHTOLIER, LITHONIA OR APPROVED	
D2	6 INCH RECESSED ARCHITECTURAL LED DOWINLIGHT	NOMINAL 6-INCH APERTURE, 13 INCHES WIDE BY 16 INCHES LONG BY 7.5 INCH HIGH GALVANIZED STEEL FRAME	SELF-FLANGED CLEAR MATTE DIFFUSE	RECESSED	CLEAR MATTE DIFFUSE		0-10 VOLT, ELECTRONIC	NOMINAL 4500 LUMENS, 3500K, 80 CRI	46 WATTS	GOTHAM LIGHTING EVO 6 SERIES, ELITE, PORTFOLIO, LIGHTOLIER, LITHONIA OR	
D3	6 INCH RECESSED ARCHITECTURAL LED SHOWER LIGHT	NOMINAL 6-INCH APERATURE, 13 INCHES WIDE BY 16 INCHES LONG BY 7.5 INCH HIGH GALVANIZED STEEL FRAME	REGRESSED DIFFUSE ACRYLIC WITH WHITE TRIM	RECESSED	WHITE	WET	0-10 VOLT, ELECTRONIC	NOMINAL 1500 LUMENS, 3500K 80 CRI	18.5 WATTS	GOTHAM LIGHTING EVO 6 SERIES, ELITE, PORTFOLIO, LIGHTOLIER, LITHONIA OR	+
D4	SURFACE MOUNTED LED DISK	NOMINAL 7-INCH DIAMETER BY 1-INCH DEEP METAL FRAME	FROSTED OPTICAL	CEILING	WHITE		DIMMING DRIVER	NOMINAL 1000 LUMENS, 3000K,	14 WATTS	APPROVED CONTECH LIGHTING SMTR SERIES,	
F	SURFACE MOUNTED LED STRIPLICHT	NOMINAL 4-FOOT COLD ROLLED STEEL CHANNEL	ROUND DEFUSE LENS	SURFACE OR CHAIN HUNG	WHITE		DIMMING DRIVER	BUCHI NOMINAL 4710 LUMENS 80	35 WATTS	LIGHTOLIER, HALO, JUNO OR APPROVED	
							ELECTRONIC DRIVER	CRI, 3500K		METALUX. DAYBRITE OR APPROVED.	
G	LENSED 2x2 LED TROFFER	NOMINAL 24 INCHES WIDE BY 24 INCHES LONG BY 3.75 INCHES HIGH STEEL	PATTERN #19 ACRYLIC LENS	RECESSED	WHITE		6-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 4000 LUMENS, 3500K, 80 CRI	39 WATTS	LITHONIA LIGHTING TL SERIES, HE WILLIAMS, METALUX, DAYBRITE OR APPROVED	
G1	LENSED 2x2 LED TROFFER	NOMINAL 24 INCHES WIDE BY 24 INCHES LONG BY 3.75 INCHES HIGH STEEL	PATTERN #19 ACRYLIC LENS	RECESSED FLANGE KIT	WHITE		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 4000 LUMENS, 3500K, 80 CRI	39 WATTS	LITHONIA LIGHTING TL SERIES, HE WILLIAMS, METALUX, DAYBRITE OR APPROVED	1
H1	WALL MOUNTED DIRECT LINEAR LED	NOMINAL 1.14 INCHS WIDE BY 2.12 INCHES TALL BY 48-INCH LONG ALUMINUM.	WHITE BAFFLE WITH EDGESOFT LENS	WALL MOUNTED WITH 24 INCH ARM. COORDINATE MOUNTING HEIGHT WITH ARCHITECT URAN DRAWNING	AS SELECTED BY ARCHITECT		0-10 VOLT, ELECTRONIC	NOMINAL 1107 LUMENS PER FOOT, 3500K, 80 CRI	12.4 WATTS PER FOOT	VODE WINGRAIL SERIES, LUMENWERX, ELLIPTIPAR, PAL OR APPROVED	1
H2	WALL MOUNTED DIRECT/INDIRECT LINEAR LED WITH 40D/60I ASYMMETRIC OPTICS	NOMINAL 2.6 INCHES WIDE BY 5 INCHES TALL BY 48 INCHES LONG EXTRUDED ALUMINUM.	FROSTED ACRYLIC DIFFUSER	WALL MOUNTED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL	AS SELECTED BY ARCHITECT		0-10 VOLT, ELECTRONIC	NOMINAL 900 LUMENS PER FOOT, 3500K, 80 CRI	9.3 WATTS PER FOOT	LUMATO B25 SERIES OR APPROVED	<u> </u>
H3	WALL MOUNTED DIRECT LINEAR LED WITH ASYMMETRIC ROOM	NOMINAL 2.6 INCHES WIDE BY 2.5 INCHES TALL IN LENGTHS AS	FROSTED ACRYLIC	DRAWINGS.	AS SELECTED BY		DIMMING DRIVER 0-10 VOLT,	NOMINAL 600 LUMENS PER	7.2 WATTS	LUMATO SQ2 SERIES, METALUMEN, MARK	WITH INTEGRAL DAYLIGHT SENSOR
H4	WADE OF ICS AND INTEGRAL DAYLIGHT SENSOR	NOMINAL 2.6 INCHES WIDE BY 2.4 INCHES TALL IN LENGTHS AS	FROSTED ACRVI IC	BIDUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. SIDE MOUNTED TO STRUKTURF	ANCHITECT AS SELECTED RY		DIMMING DRIVER	NOMINAL 900 LI IMENS PER	PER FOOT	LUMATO SQ2 SERIES, METALLIMEN	ļ
	LIGHT OPTICS	SHOWN ON DRAWINGS EXTRUDED ALUMINUM.	DIFFUSER	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	ARCHITECT		ELECTRONIC DIMMING DRIVER	FOOT, 3500K, 80 CRI	PER FOOT	PRUDENTIAL LIGHTING, MARK ARCHITECTURAL LIGHTING OR APPROVED	
J	LED WRAPAROUND WITH INTEGRAL SENSOR	NOMINAL 4.75 INCHES WIDE BY 4 INCHES HIGH BY 51 INCHES LONG	FROSTED ACRYLIC DIFFUSER	SURFACE (CEILING AND WALL)	WHITE			NOMINAL 4000 LUMENS, 3500K, 80 CRI	40 WATTS	LITHONIA LIGHTING WL4 SERIES, CONTECH LIGHTING OR APPROVED	
P1	ARCHITECTURAL TRIANGULAR INVERTED PYRAMID LED PENDANT	NOMINAL 50 INCHES LONG ALUMINUM SIDES	FROSTED ACRYLIC DIFFUSER	SUSPENDED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	AS SELECTED BY ARCHITECT		0-10 VOLT, ELECTRONIC DIMMING DRIVER	NOMINAL 700 LUMENS PER FOOT, 3500K, 80 CRI	9 WATTS PER FOOT	NEIDHARDT RPD07-P5 SERIES OR APPROVED	
P2	ARCHITECTURAL LED RING DIRECT PENDANT	NOMINAL 5 FOOT DIAMETER BY 5 INCH HIGH ALUMINUM.	FROSTED ACRYLIC DIFFUSERS	SUSPENDED. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.	AS SELECTED BY ARCHITECT		0-10 VOLT, ELECTRONIC	NOMINAL 15404 LUMENS, 3500K, 80 CRI	170 WATTS	TMS LIGHTING COMETA 1:1 SERIES, CAMMAN, BETA CALCO OR APPROVED	
P3	ARCHITECTURAL LED RING DIRECT/INDIRECT PENDANT	NOMINAL 2 FOOT DIAMETER BY 5 INCH HIGH ALUMINUM.	FROSTED ACRYLIC	SUSPENDED. COORDINATE MOUNTING	AS SELECTED BY		0-10 VOLT, ELECTRONIC	NOMINAL 10163 LUMENS,	112 WATTS	TMS LIGHTING COMETA 1:1 SERIES, CAMMAN, DETA CALCO OR ARREPORT	
т	LED TAPELIGHT IN CHANNEL FOR DISPLAY CASES	NOMINAL 0.69-INCH WIDE BY 0.54-INCH TALL EXTRUDED	FROSTED LENS	RECESSED. COORDINATE INSTALLATION	SILVER ANODIZED		DIMMING DRIVER REMOTE NON	NOMINAL 340 LUMENS PER	4.4 WATTS	LLI ARCHITECTURAL LIGHTING LLI-SOF SERIES	
¥1		ALUMINUM		WITH ARCHITECTURAL DETAILS.	DDITUGED AT LINES IN		DIMMING DRIVER	FOOT, 3500K, 90 CRI	PER FOOT	EVITORIANY AND GEDIEG EVENI ITE 1004 ITE	
		CAST ALUMINUM HOUSING. CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN.		ARCHITECTURAL DRAWINGS				UNLER LED	WATTS	PATHWAY, SURELITES OR APPROVED	AS SHOWN ON DRAWINGS
X2	UNIVERSAL MOUNTED THIN PROFILE EXIT SIGN - DOUBLE FACE	NOMINAL 12-INCH WIDE BY 8-INCH TALL BY 0.9-INCH DEEP DIE CAST ALUMINUM HOUSING. CONTRACTOR TO VERIFY BACKBOX		COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	BRUSHED ALUMINUM			GREEN LED	NOMINAL 2 WATTS	EXITRONIX 450 SERIES, EVENUTE, ISOLITE, PATHWAY, SURELITES OR APPROVED	PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
		REQUIREMENTS DURING ROUGH-IN.									
X3	MULLION MOUNTED THIN PROFILE EXIT SIGN - SINGLE FACE	NOMINAL 12-INCH WIDE BY 8-INCH TALL BY 0.9-INCH DEEP DIE CAST ALUMINUM HOUSING. CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN.		COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECTURAL DRAWINGS	BRUSHED ALUMINUM			GREEN LED	NOMINAL 2 WATTS	EXITRONIX 450 SERIES, EVENLITE, ISOLITE, PATHWAY, SURELITES OR APPROVED	PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
TERIOR											<u> </u>
	CHIEFTING DOOT TOD I CO OCOCOTO UNU UNIDUDEO TO DEMAIN				WHITE				75 WATTS		REPLACE DAMAGED BASE COVERS AS NECESSARY
EX	EXISTING POST TOP DED PEDESTRIAN COMPARES TO REMAIN	NOMINAL 19 INCH DIMMETED BY OVERALL DEVOUT OF \$2 INCH	REFRACTIVE OPTICS	18-FOOT HIGH, STRAIGHT STEEL ROUND POLE. POLE TO WITHSTAND 100 MILE PER HOUR WINDS WITH A GUST FACTOR OF	DARK BRONZE			NOMINAL 6605 LUMENS, 4000K, 80 CRI	75 WATTS	LITHONIA LIGHTING MRP LED SERIES TO MATCH EXISTING	
EX	EXISTING FOST TOP LED PEDES HOW COMPARES TO REMAIN POST TOP LED AREA LUMINAIRES TO MATCH EXISTING. TYPE II DISTRIBUTION	DIE-CAST ALUMINUM		PEDESTAL							
EX SA-2	EXISTING FOST TOP LED PEDES INDIA LUMINARES TO REMAIN POST TOP LED AREA LUMINARES TO MATCH EXISTING. TYPE II DISTRIBUTION	DIE-CAST ALUMINUM									
EX 84-2 84-5	EASTING YOST OF LED FELSES IN INCLUMINANCES TO REMAIN POST TOP LED AREA LLIMINAIRES TO MATCH EXISTING. TYPE I DISTRIBUTION IROST TOP LED AREA LLIMINAIRES TO MATCH EXISTING. TYPE V DISTRIBUTION	NCMINAL ISING DIAMETER BY OVERALL HEIGHT OF 32-INCH DE-CAST ALUMINUM	PRECISION ACRYLIC REFRACTIVE OPTICS	18-FOOT HIGH, STRAIGHT STEEL ROUND POLE. POLE TO WITHSTAND 100 MILE PER HOUR WINDS WITH A GUST FACTOR OF 13. AROVE GROUND CONCRETE	DARK BRONZE			NOMINAL 6965 LUMENS, 4000K, 80 CRI	75 WATTS	LITHONIA LIGHTING MRP LED SERIES TO MATCH EXISTING	
EX 8A-2 8A-5	EXASING YOR TOP LOP PLOY RELES INVALUMENTES TO MEDIAN POST FOR LES AREA LUMINUMES TO MATCH EXISTING. TYPE I DISTREUTION POST FOR LES AREA LUMINUMES TO MATCH EXISTING. TYPE V DISTREUTION	DE-CAST ALLINING.	PRECISION ACRYLIC REFRACTIVE OPTICS	18-POOT HIGH STRAIGHT STEEL ROLIND POLE POLE TO WITHSTAND 100 MLE PER HOUR WINDS WITH A GUST FACTOR OF 1.3. ABOVE GROUND CONCRETE PEDESTAL	DARK BRONZE			NOMINAL BBBS LUMENS, 4000K, 80 CRI	75 WATTS	LITHONA LIGHTING MRP LED SERIES TO MATCH EXISTING	BEG IVE NIMPENBINE 200 PON
EX 8A-2 8A-5 8A-EX 8A-P	CASIMITY OF THE THE THE MAN THE TO MARK TO THE	DE CAST ALLIMBENT NORMAL ISINCH DAMETER BY OVERALL HEIGHT OF SLIRCH DE CAST ALLIMBENT	PRECISION ACRIVIC REFRACTIVE OPTICS	16-FOOT HIGH. STRAIGHT STEEL ROUND POLE. POLE TO WITHSTAND 100 MLE PER HOUR WINGS WITH A QUST FACTOR OF 13. ABOVE OROUND CONCRETE PEDESTAL	DARK BRONZE DARK BRONZE DARK BRONZE			NOMINAL 6965 LUMENS, 4000K, 80 CRI	75 WATTS 75 WATTS 75 WATTS	LITHORMA LIGHTING MRP LED SERIES TO MATCH EXISTING	REPLACE DAMAGED BASE COVERS AS NECESSARY REPLACE DAMAGED BASE COVERS
EX SA-2 SA-5 SA-EX SA-R	CASIMITATION IN THE PERSIMAN LIMITATION IN THE INFORMATION INTO INFORMATION INTO INFORMATION IN THE INFORMAT		PRECISION ACRYLIC REFRACTIVE OPTICS PUECTION-MOLDED ACRYLIC PIXELATION-FREE	INFOOT HIGH STRAGHT STEEL ROUND POLE POLE TO WITHSTAND 100 MLE PER HOLE WINGS WITH A OLIST FACTOR OF TERESTAL THE STALL STRAGHT STEEL ROUND TUPOLE POLE TO WITHSTAND 100 MLE PER	DARK BRONZE DARK BRONZE DARK BRONZE DARK BRONZE AS SELECTED BY ARCHITECT	1766	INTEGRAL DRIVER; 0-107 DIMINIG	NOMINAL BIES LUMENS, 4000K, 80 CRI NOMINAL 1500 LUMENS; 5000K LED; >80 CRI	75 WATTS 75 WATTS 75 WATTS 24 WATTS	UTHONALLIGHTING MIRPLED SERIES TO MATCH EXISTING INVLE ARBOR POST YOP SERIES	REPLACE DAMAGE DEASE COVERS AS NECESSARY REPLACE DAMAGE DEASE COVERS AS NECESSARY
EX 8A-2 8A-5 8A-EX 8A-R 88	CASIMITATION IN THE PERSIMAN CONTRACT OF A CONTRACT ON A C	NECOT ALIMINA NUMBER STOTEMENT OF STREET OF STREET STREET STOTEMENT STREET STOTEMENT STREET STREET STREET STREET STOTEMENT STREE	RECISION ACRALIC REFRACTIVE OPTICS REFRACTIVE OPTICS RECITION AND LIFE ACRALIC INSELATION-REE LONG WITH WAVESTREAM OPTICS	12-200 HIGH STRAGHT STELE BOUND 12-200 HIGH STRAGHT STELE BOUND HOUR WINDS WITH A LIST FACTOR OF 13-200E GOUND CONCRETE PEDESTAL 12-200T HIGH STRAGHT STELE ROUND POLE POLE TO WITHSTRAG 100 MLE PER HOUR WINGS WITH A QUST FACTOR OF PEDESTAL	DARK BRONZE DARK BRONZE DARK BRONZE AS BELECTED BY ARCHITECT	P66	INTEGRAL DRIVER; 0-10V DIMMING	NOMINAL BIES LUMENS, 4000K, BO CRI NOMINAL 1959 LUMENS, 5000K LED, HID CRI	75 WATTS 75 WATTS 75 WATTS 24 WATTS	UNHORALIDSTING MIRPLED SERIES YO MATCH EXISTING	REPLACE DAMAGED BASE COVERS AS MECESSARY REPLACE DAMAGED BASE COVERS AS MECESSARY
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N RTH Clackamas Schools

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100 SW Main St. Suite 1600 Portland, OR 97204 TEL 503.382.2265 FAX 503.382.2262 www.interfaceenginee key plan

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	0	'LCP1B'		Surface Mounted Circuit: 4LS1B-11.	5	'LCP1D'		Surface Mounted Circuit: 4LS1D-18.		
Relay #	Circuit 4L1B-2	Description L - HALLWAYS	Control TC, OS	Notes	Relay# Circuit 1 4L1D-1.	Description L - HALLWAYS	Control TC, OS	Notes	4000 1	
2	4L1B-7. 4L1B-8.	L - EXTERIOR LOBBY L - EXTERIOR	AC AC		2 4L1D-5. 3 4L1D-7.	L - LOBBY L - EXTERIOR	TC, PC AC		1233 NW Suite 100	Northrup Street
4	4L1B-9. 4L1B-10.	L – EXTERIOR L – EXTERIOR	AC AC		4 4L1D-9. 5 4L1D-8.	L - EXTERIOR L - EXTERIOR	AC AC		Portland,	Oregon 97209
6	4L1B-11. 4L1B-12.	L - EXTERIOR L - EXTERIOR	AC AC		6	SPARE RELAY SPARE RELAY			tel. (503) 595 4900
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-	ignun			Surface Mounted	Lightin	y control Faller		Surface Mounted	143	Clackamas Schools
Relay #	Circuit	LCP2B' Description	Control	Circuit: 4LS2B-7. Notes	Ralay# Circuit	·LCP2D' Description	Control	Circuit: 4LS2D-7. Notes		
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auta: PC	, BAS, FA	SPARE RELAY			8 Inputa: PC, BAS, FA	SPARE RELAY				
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phase RECORD SET date 05/21/2021 project 17010 LIGHTING SCHEDULES PROJECT 2017-051 CONTACT Kim Wall 100 SW Main St. Suite 1600 Portland, OR 97204 TEL 503.382.2865 FAX 503.382.2862 www.interfaccompines E0.03



LOAD SUMMARY AT	LOAD SUMMARY AT	Panel '4EM1B'	2017-0511 2017-0511 Available Fault Current of 1716A RMS	Panel '2SB1B'	120208V 3 Ph. 4 W : 100A Bios with 50A Main Circuit Breaker Surface Mounted Panelboard with an Available Fault Current of 85A RMS	
LOAD TOTAL DEMAND TOTAL TYPE LOAD DESCRIPTION UNITS CONNECTED FACTOR DEMAND LOAD LOAD	LOAD TYPE LOAD DESCRIPTION UNITS CONNECTED FACTOR DEMAND	Cit. No. Description / Location EXTERNAL SPD	Load C.B. Load CAL CAL (VAT)Pe APbat Note Ph. Note Ph. Note Sol CaL Sol CaL Note Sol CaL	Ckt. No. Description / Location 1 R - MDF 118 3 R - MDF 118	Load C.B. Load Ckt. (VAI(T)rev APoia Noto No. 580 G 201 A 201 580 G 201 A 201 580 G 201 A 201 580 G 201 A 200 580 G 201 A 200	BRIC
G Garrant (Ren-Centinucan) KVA 114.44 100% 154.44 L Lighting KVA 116.74 125% 2005/2 R Respitations to 10 KVA KVA 100.00 100% 10.00 news 10 KVA KVA 100.00 100% 10.00	G Gammal (Non-Contruous) KVA 35.76 100% 35.76 L Light Respirators 10 KVA 14.58 125% 15.82 R Respirators to 10 KVA KVA 558 100% 5.88 over 10 KVA KVA 558 50% 2.84	5 7 L-STARS 9 L-EXTERIOR 14 L/CP10	50 0 - C 1 201 777 L L-HALLWAY 6 4461 L 2011 A 2011 607 L 0.067 DEL 0.007 DEL		380 G 2011 60 8.0F 43 6 380 G 2011 A 201 500 G 8.0F 43 6 380 G 2011 A 201 500 G 7.0F 543 8 180 G 2017 B 152 32 M FCU-22 10 190 G 2017 B 152 32 M FCU-22 10 <th>ARCHITECTURE, INC.</th>	ARCHITECTURE, INC.
K Kitchen KVA 0.00 100% 0.00 H Healing KVA 23.30 100% 23.30 M Motor KVA 425.28 100% 425.26 IM Lensest Motor KVA 425.27 10% 425.26	K Kitchen KVA 5.68 65% 3.69 H Heading KVA 5.68 100% 5.68 M Motors KVA 36.86 100% 36.86 M Motors KVA 36.86 100% 36.86 M Inservet Motors KVA 36.86 0.00	13 SPARE BREAKER 15 SPARE BREAKER 17 SPARE BREAKER	200 30 A 201 SPARE BREAKER 14 201 B 201 SPARE BREAKER 14 201 C 201 SPARE BREAKER 16 201 C 201 SPARE BREAKER 16	13 AREA RESCUE COMMAND CENTER 15 FCU-31 17 -	1,600 C 2511 A 1552 32 M FCU34 54 32 M 152 B	1233 NW Northrup Street
Coll Coll <th< th=""><th>Loc Configure House PVV 6.6 12.5% 7.10 WH Water House KVA 5.68 12.5% 7.10 C Continuous General Load KVA 5.68 12.5% 7.10 TOTAL LOADS (H80Y, 3 Phase) KVA 12.13 122.9 12.2 12.2</th><th>19 SPARE BREAKER 21 SPARE BREAKER 23 SPARE BREAKER</th><th>2011 A 2011 BPARE BREAKER 20 2011 B 2011 SPARE BREAKER 22 2011 C 2011 SPARE BREAKER 23</th><th>19 FCU-24 CONDENSATE PUMP 21 FCU-25 CONDENSATE PUMP 23 FCU-31 CONDENSATE PUMP 26 CCD 31 - MDF QUAD</th><th>86 M 201 A - 52 M - 20 86 M 201 B 201 84 M 50 C 22 84 M 201 C 201 94 L (REJORR BOARD 201 22 84 M 201 C 201 30 L (REJORR BOARD 201 34</th><th>Suite 100 Portland, Oregon 97209</th></th<>	Loc Configure House PVV 6.6 12.5% 7.10 WH Water House KVA 5.68 12.5% 7.10 C Continuous General Load KVA 5.68 12.5% 7.10 TOTAL LOADS (H80Y, 3 Phase) KVA 12.13 122.9 12.2 12.2	19 SPARE BREAKER 21 SPARE BREAKER 23 SPARE BREAKER	2011 A 2011 BPARE BREAKER 20 2011 B 2011 SPARE BREAKER 22 2011 C 2011 SPARE BREAKER 23	19 FCU-24 CONDENSATE PUMP 21 FCU-25 CONDENSATE PUMP 23 FCU-31 CONDENSATE PUMP 26 CCD 31 - MDF QUAD	86 M 201 A - 52 M - 20 86 M 201 B 201 84 M 50 C 22 84 M 201 C 201 94 L (REJORR BOARD 201 22 84 M 201 C 201 30 L (REJORR BOARD 201 34	Suite 100 Portland, Oregon 97209
	AM#'S 145.9 147.9	Total Connected Load: Ph. B Total Connected Load: Ph. B Total Connected Load: Ph. C Notes:	. Anii VA 3 Ampa Patasi Consectad Load: 3.5 KVA 4.5 Ampa 200 VA 3 Ampa Sub-Fed Consectad Load: 0.5 KVA 6.6 Ampa 1.027 VA 4 Ampa Tota Demand Load: 4.5 KVA 5.6 Ampa Accessoria:	27 CCD 31 - MDF QUAD 29 CCD 31 - MDF UPS 31 SPARE BREAKER 31 SPARE BREAKER	300 G 201 B 201 SPARE SREAKER 28 250 G 301 C 201 SPARE SREAKER 30 201 201 SPARE SREAKER 30 30 201 201 SPARE SREAKER 30 201 201 SPARE SREAKER 32 301 201 SPARE SREAKER 32	181. (303) 333 4300
Panel 'GEN'		1. ROUTE THROUGH LIGHTING CONTROL 2. 3. 4.	PANEL 1.CP18.	35 SPARE BREAKER 37 SPARE BREAKER 39 SPARE BREAKER	201 C 201 BPARE BREAKER 36 2011 A 201 SPARE BREAKER 36 2011 B 201 SPARE BREAKER 36 2011 B 201 SPARE BREAKER 36	TAKD PROFESS
LOAD TYPE LOAD DESCRIPTION UNITS CONNECTED DEMAND FACTOR DEMAND G Gammal (Non-Continuoua) KVA 35.78 100% 35.78		5.		Total Connected Load: Ph. A Total Connected Load: Ph. B Total Connected Load: Ph. B	201 201 20	
L Lighting KVA H-38 125% 18.22 R Receptacker-to-10 KVA KVA KVA 5.68 100% 5.68 over 16 KVA KVA KVA 5.68 50% 2.84 K Klothen KVA 5.68 65% 3.69		Panel '4EM2D'	2017-001 Analoba Fault Correct of 164A RMS Load C.B. C.B. Load Obt	Production Connected Coast. Price Connected Coast.	Accessories:	A THE DATE OF THE O
Η Heating KVA 5.68 100% 5.68 M Motora KVA 24.76 100% 24.76 LM Largest Motor KVA 12.10 125% 15.12 WH Water Hader KVA 5.68 125% 7.50		No. Description / Location 1 EXTERNAL SPD 3	(VA)Type APois Note APois (VA)Type Description Location No. 50 G 303 A 1 201 439 L L-H4LWAYS 2 5 50 G - - B 201 70 L L-H4LWAYS 2	3. 4. 5.	2017-0517	EXPIRES: 12/31/22
C Certifixous Gammil Load KVA 5.68 125% 7.10 TOTAL LOADS (480V, 3 Phane) KVA 121.3 128.0 AMPS 145.9 147.9		5 7 LCP2D 9 SPARE BREAKER 11 SPARE BREAKER	SO (G - C 2011 BPARE BREAKER 6 200 (G 2011 A 2019 50 (L 2017) 8 200 (G 2011 B 2011 50 (L 2017) 8 2011 C 2011 SPARE BREAKER 10	Panel '2SB2B'	1202039/ 3 Ph., 4 W.; 100A Bas with 50A Main Circuit Breaker Surface Mounted Panelboard with an Available Fault Coursert of 840A RMS Load C.B. C.B. Load Ckt.	
Panel '2SB1D' 120208V.3 Ph. 4 W: 250A Bios with 250A Main Crout Breaker Sorfice Prostboard with a minimum Available Fault ratios of 5057A RMS	e Mounted Distribution 2017-0517	13 SPARE BREAKER 15 SPARE BREAKER 17 SPARE BREAKER 18 RPARE BREAKER 19 RPARE RREAKER	2011 A 2011 BPARE BREAKER 14 2011 B 2011 BPARE BREAKER 16 2011 C 2011 BPARE BREAKER 16	No. Description / Location 1 R - IDF 250 3 R - IDF 250 4 R - IDF 250	(VA)[Type APeale Note Ph. Note APeale (VA)[Type Description / Location No. 360 G 201 A 201 SoO R 201 C 2 360 G 201 B 15/2 320 M FOD-30 2 360 G 201 B 15/2 320 M FOD-30 4	
Cit. Load C.B. C.B. Load No. Description / Location (VAIType AProle Note Ph. Note AProle (VAIType Description) de location (VAIType Control of Location (VAIType Description)	chi. Chi.	21 SPARE BREAKER 23 SPARE BREAKER Total Connected Load: Ph. A	2011 B 2011 SPARE BREAKER 22 2011 C 2011 SPARE BREAKER 24 729 VA 3 Arms Panel Connected Last 0.9 KVA 1.1 Arms	7 FCU-27 9	201 31 201 31 32 M 152 A 2011 31 32 M 32 M 32 M	NICOTLI
1 Parent 20610 2.000 ≥ 303.5 A 2.003.7 2.403.5 2.97476 3 - 888.8 - B - 4.244.8 5 5 - 888.8 - C - 4.244.8 7 Parent 25826' 771.3 5.03 A 5.03.474.8 Parent	2582U 2 4 25836' 8	Total Connected Load: Ph. B Total Connected Load: Ph. C Notes:	120 VA 0. Arrps Stil-Fed Connected Load: 0.0 KVA 0.0 Arrps 50 VA 0. Arrps Total Demand Load: 1.0 KVA 1.3 Arrps Accessories: Accessories: 0.0 KVA 1.0 KVA 1.0 KVA	13 SPARE BREAKER 15 SPARE BREAKER 17 SPARE BREAKER 19 SPARE BREAKER	201 A 201 SPARE SREAKER 14 201 SPARE SREAKER 16 201 C 201 SPARE SREAKER 18 201 C 201 SPARE SREAKER 19 201 SPARE SREAKER 20	Clackamas Schools
9 - 641 8 - 8 - 4.478 5 11 - 506 5 - C - 4.012 5 13 FCU-20 509 8 - C - 4.012 C/L12 15 - - 0 M 152 A 2.017 500 M C/L12 C/L12<	10 12 12 112 18	2. 3. 4.	PAREL LURAJ.	21 SPARE BREAKER 23 SPARE BREAKER 25 SPARE BREAKER 27 SPARE BREAKER	2011 B 2011 SPARE REAVER 22 2011 C 2011 SPARE REAVER 24 2011 A 2011 SPARE REAVER 24 2011 A 2011 SPARE REAVER 26 2011 B 2011 SPARE REAVER 28	
17 FOL-21 32 M 152 C 2011 390 G R-10 19 A 2011 390 G R-10 390 G	112 18 112 20 112 20 112 22 112 22 112 22	3.		29 SPARE BREAKER 31 SPARE BREAKER 33 SPARE BREAKER	201 C 201 BPARE BREAKER 30 2011 A 201 SPARE BREAKER 32 2011 B 201 SPARE BREAKER 32 2011 B 201 SPARE BREAKER 34	
25 CHARGING STATION 1.00 G. 201 A 201 SPARE 27 LIFT CHARGING 1.000 G. 2011 B 201 SPARE 28 SHARE SREAKER 2011 C 2011 SPARE	E BREAKER 29 E BREAKER 29 BREAKER 39	Panel '4EM2B'	2017-401/, 3 Ph., 4 W.: 100A Bus with 80A Main Circuit Breaker Surface Mounted Panelboard with an Available Fault Connet of 1522A RMS	37 SPARE BREAKER 39 SPARE BREAKER 41 SPARE BREAKER	2011 A 2011 SPARE SREAKER 26 2017 B 2011 SPARE SREAKER 38 2017 B 2011 SPARE SREAKER 40 2011 C 2011 SPARE SREAKER 41	
JI DPVMC DPVMC DPVMC 33 SPAME 2011 B 201 B 35 SPAME 2011 B 201 B 36 SPAME 2011 B 201 B 35 SPAME 2011 C 201 SPAME 37 SPAME REFAMER 2011 C 2011 SPAME	DREJAKEN 34 BREJAKER 54 BREJAKER 58 BREJAKER 58	No. Description / Location 1 EXTERNAL SPD 3	(VA)Type Alfola Note Alfola VA/Type Description / Location No. 50 G 303 A 1 201 781 L L-HALLWAY 2 50 G - B 201 781 L L-UASSROOMS, IDF, CUST, ELEC 4	Total Connected Load: Ph. A Total Connected Load: Ph. B Total Connected Load: Ph. C	772 VA 6 Arrps Pland Connected Load: 1.8 KVA 4.9 Arrps 444 VA 4 Arrps SUS-Feld Connected Load: 1.0 KVA 0.0 Arrps 560 VA 5 Arrps Total Demand Load: 1.8 KVA 5.0 Arrps	0
39 SPARE REAL 20/1 B 20/1 SPARE 41 SPARE 20/1 C 20/1 SPARE 43 SPARE 20/1 C 20/1 SPARE 45 SPARE 20/1 A 20/1 SPARE 45 SPARE 20/1 A 20/1 SPARE	BREAKER 40 BREAKER 42 BREAKER 44 BREAKER 44	5 7 LCP2B 9 SPARE BREAKER 11 SPARE BREAKER	SO (G - C 201 552 (L L L-MEDAC ENVTER 6 200 (G 201 A 201 59 (L L-201 SIGNA) 8 200 (G 2011 B 201 SPARE BREAKER 10 2011 C 2011 SPARE BREAKER 10	Nobus: 1. 2. 3.	Accessiones:	우
47 SPARE REAKRER 2011 C 2011 SPARE 48 SPARE REAKRER 2011 A 2011 SPARE 51 SPARE REAKRER 2011 B 2011 SPARE 51 SPARE REAKRER 2011 B 2011 SPARE 51 SPARE REAKRER 2011 B 2011 SPARE	BREAKER 48 BREAKER 50 BREAKER 50 BREAKER 51	13 SPARE BREAKER 15 SPARE BREAKER 17 SPARE BREAKER 19 OPARE BREAKER 19 OPARE BREAKER	2011 A 2011 BPARE BREAKER 144 2011 B 2011 BPARE BREAKER 16 2011 C 2011 BPARE BREAKER 16 2011 C 2011 BPARE BREAKER 18 2011 C 2011 BPARE BREAKER 19	4.5.	2017-0517	1 <u>5</u>
S3 Safety Connected Loss? Data Data <thdata< th=""> <thdata< th=""> Data<td>E MEL-MEL and 52 KV/A 54.4 Ampa and 53.7 KV/A 93.5 Ampa and 41.9 KV/A 1163 Ampa</td><td>21 SPARE BREAKER 23 SPARE BREAKER Totel Connected Load: Ph. A</td><td>20/1 8 20/1 BP/ARE BREAKER 22 20/1 C 20/1 BP/ARE BREAKER 22 20/1 C 20/1 BP/ARE BREAKER 22 1.051 VA 4 Armps Panel Connected Lost 2.0 KVA 2.4 Armps</td><td>Panel '2SB3B'</td><td>1202059/ 3 Ph, 4 W; 125A Bas with 125A Main Circuit Breaker Surface Mounted Panetboard with an Available Fact Count of ISAA RMS Load C.B. C.B. Load CKL</td><td>S T</td></thdata<></thdata<>	E MEL-MEL and 52 KV/A 54.4 Ampa and 53.7 KV/A 93.5 Ampa and 41.9 KV/A 1163 Ampa	21 SPARE BREAKER 23 SPARE BREAKER Totel Connected Load: Ph. A	20/1 8 20/1 BP/ARE BREAKER 22 20/1 C 20/1 BP/ARE BREAKER 22 20/1 C 20/1 BP/ARE BREAKER 22 1.051 VA 4 Armps Panel Connected Lost 2.0 KVA 2.4 Armps	Panel '2SB3B'	1202059/ 3 Ph, 4 W; 125A Bas with 125A Main Circuit Breaker Surface Mounted Panetboard with an Available Fact Count of ISAA RMS Load C.B. C.B. Load CKL	S T
Notes: Accessories: 1 2 2 2		Total Connected Load: Ph. B Total Connected Load: Ph. C Notes:	338 VA 1 Arrps Sub-Fed Connected Load: 0.0 KVA 0.0 Arrps 602 VA 2 Arrps Total Demaid Load: 2.4 KVA 2.9 Arrps Accessories: Accessories: 0.0 KVA 0.0 Arrps	No. Description / Description 1 R - IDF 350 3 R - IDF 350 5 R - IDF 350	(VAL) Pice Pice APois APois (VAL) Pice Discription/ Location No. 360 G 201 A 201 Sol G R Discription/ Location No. 380 G 201 B 152 SOL M FCD-20 4 380 G 201 C - SOL M FOL-20 4	G S
3. 5.		1. NOUTE THROUGH LIGHTING CONTROL 2. 3. 4.	PANEL LOP2F.	7 ACCU-1 9	4 (602) M 603 A 152 32 M FCL-30 8 4 (602) M B 32 M 19 4 (602) M C 201 188 M FCL-30 ACMODENSATE PUMP 10 4 (602) M C 201 168 M FCL-30 ACMODENSATE PUMP 12	DR 972
Dist. Panel '4EM1D' 277/48/V, 3 Ph., 4 W, 125A Bus with 125A Main Cliccuit Beaker Surface Paneboard with no Available Fault Council of 22021A RMS	2017-4517 Mounted Distribution	5.		15 SPARE BREAKER 17 SPARE BREAKER 19 SPARE BREAKER 19 SPARE BREAKER	Z01 K Z01 SPACE DREAM P4 Z01 B Z01 SPACE DREAM 96 Z01 C Z01 SPACE DREAM 96 Z01 C Z01 SPACE DREAM 96 Z01 C Z01 SPACE DREAM 98 Z01 C Z01 SPACE DREAM 98 Z01 C SPACE DREAM 98 Z01 C SPACE DREAM 98	
No. Description / Location (VA)[Type A(Pela Note Ph. Note A(Pela (VA)[Type Description 1 Panel 425M18' 1.521 5 603 603 561 8 Panel 425M18' 561 8 - 561 8 - 561 8 - 561 561 8 - 561<	plan / Location No. 4EM20' 2 4	Panel '4EM3B'	2017/6511 2017/6511 Available Fuit Current of 1468A RMS	7 21 SPARE BREAKER 23 SPARE BREAKER 25 SPARE BREAKER 27 SPARE BREAKER	201 B 201 SPARE BREAKER 22 201 C 201 SPARE BREAKER 24 201 A 201 SPARE BREAKER 26 201 A 201 SPARE BREAKER 26 201 B 201 SPARE BREAKER 28	X SHO SHOW
5 1.027 6 - C - 6.68 8 7 Panel 4E026* 1.081 8 60.3 A 60.3 6.0 9 Panel 4 9 - 539 8 - 8 - 50 9 - 11 - 602 8 - 50 8 - 50 8	45008' 6 8 10 12	No. Description / Location I EXTERNAL SPD 3	(VA)Tipe Allfola Note Allfola VA(Type Description / Location No. \$50 G 303 A 1 201 1,000 L L-HALLWAYS 2 2 50 G - B 2017 245 L -CUBY, EEE, (DF) 4	29 SPARE BREAKER 31 SPARE BREAKER 33 SPARE BREAKER 35 SPARE BREAKER	2011 C 2011 SPARE BREAKER 30 2011 A 2011 SPARE BREAKER 32 2011 B 2011 SPARE BREAKER 32 2011 B 2011 SPARE BREAKER 34 2011 C 2011 SPARE BREAKER 34	AL AL
13 L-HALLWAY 409 L 2017 41 L 2017 441 L	14 16 2 BOFLMED 16 2 BOFLMED 19	5 7 LCP38 9 SPARE BREAKER 11 SPARE REFAKER	S0 C 201 BPARE BRACER 6 200 C 201 A 201 50 L C. 201 8 200 C 201 B 201 SPARE BREAKER 10 201 C 201 SPARE BREAKER 10 201 C 201 SPARE BREAKER 10	37 SPARE BREAKER 39 SPARE BREAKER 41 SPARE BREAKER	201 A 201 SPARE SREAKER 38 201 B 201 SPARE SREAKER 40 201 C 201 SPARE SREAKER 40	CLACH Willart 553-584
21 FACP VIA XFUR VEACP 20 C 2011 B 2011 SPARE 23 SPARE REFARER 2011 C 2011 B 2011 SPARE 23 SPARE REFARER 2011 C 2011 SPARE 24 SPARE REFARER 2011 C 2011 SPARE	BREAKER 22 BREAKER 24 BREAKER 24 BREAKER 24	13 SPARE BREAKER 15 SPARE BREAKER 17 SPARE BREAKER	2011 A 2011 SPARE BREAKER 14 2011 B 2011 SPARE BREAKER 16 2011 C 2011 SPARE BREAKER 16	Total Connected Load: Ph. A Total Connected Load: Ph. B Total Connected Load: Ph. C	4,754 yg, 40 Amps Panel Connected Load: 13.9 yg, 435 Amps 4,755 yg, 33 Amps Sub-Fed Connected Load: 0.0 YWA 0.0 Amps 4,612 yg, 38 Amps Total Damand Load : 16.9 KVA 46.9 Amps	ORTH 301 SE (503) 3 (503) 3
27 SPAGE BREAKER 2011 B 2011 SPARE 28 SPARE BREAKER 2011 C 2011 SPARE 31 SPARE BREAKER 2011 C 2011 SPARE 33 SPARE BREAKER 2011 A 2011 SPARE 33 SPARE BREAKER 2011 B 2011 SPARE	EMEJARZIN 28 EMEJARZIN 30 EMEJARZIN 30 EMEJARZIN 34	21 SPARE BREAKER 23 SPARE BREAKER 23 SPARE BREAKER Total Connected Load Ph. A	201 20 201 20 201 20 201 201 20 201 20 201 20 201 20 2	1. 2. 3.	PLANED	■ Z Ø ₩ ₩
35 SPARE BREAKER 20/1 C 20/1 SPARE 37 SPARE BREAKER 20/1 A 50/3 1.000 G SP 39 SPARE BREAKER 20/1 A 50/3 1.000 G - 41 SPARE BREAKER 20/1 B - 1.000 G - 41 SPARE BREAKER 20/1 C - 1.000 G -	BREAKER 56 58 40 42	Total Connected Load: Ph. B Total Connected Load: Ph. C Notes:	2/5 VA 1 Anrpa Stu-Fed Connected Load: 0.0 KVA 0.0 Anrpa 50 VA 0 Anrpa Total Demand Load: 2.0 KVA 2.4 Anrpa Accessionie: Accessionie: 2.0 KVA 2.4 Anrpa	<u>.</u>	1997/9697 9 Ster, 4 W., 195A Box with 195A Main Claud Brooker Dash Meanted Baselhand with an	
Total Connected Load: Ph. A 4,952 VA 18 Amp Paint Connected Lin Total Connected Line Ph. B 3,954 VA 12 Ampa Stul-Fed Connected Line Total Connected Line Ph. B 3,954 VA 12 Ampa Stul-Fed Connected Line Total Connected Line Ph. C 2,269 VA 1 Ampa Total Demand Line	oad: 5.2 KVA 6.2 Ampa bad: 5.4 KVA to 0.0 Ampa add: 15.7 KVA 15.3 Ampa	1, NOTE INVOLUTING CONTROL 2. 3. 4.	PANEL LUP30.	Cit. Ng. Description / Location	Available Fault Current of 1051A RMS Load C.B. C.B. Load CMT/paper Description / Location No. CAL	
Notes: Accessories: 1. ROUTE THROUGH LIGHTING CONTROL PANEL 'LCP1D' 2. 3.		3.	2017-6517	1 R - IDF 213 3 R - IDF 213 5 R - IDF 213 5 R - IDF 213	360 G 201 A 201 360 C R-DF_213 2 360 G 201 B 152 32 M FCU-26 4 360 G 2611 C 6 360 G 2611 C 6	
4. Provid 5. Provide	Burge Protective Device	Panel '2P3B'	1202089, 3 Pn, 4 W, 400, Bus with 2004 Main Circuit Breaker Surface Mounted Distribution Pareboard with a minimum Available Fault stating of 1110A RMS Load C.B. C.B. Loed Citt.	7 ACCU-2 9	4.002 M 4003 Å 201 84 M PCJ-28 CONDENSATE PUMP 8 4.002 M − B 201 SPARE BREAKER 10 4.002 M − C 201 SPARE BREAKER 12 201 Å 201 SPARE BREAKER 14	
		No. Description / Location 1 R - RE STROOMS 3 R - CUSTODIAL 348 5 CHARGING STATION - CUST 348	UAITupe APoin Note Ph. Note APoin APoin No. 2011 A 2003 23,140. S Pauel '99G' Section 1 2 2011 B	15 SPARE BREAKER 17 SPARE BREAKER 19 SPARE BREAKER 21 SPARE BREAKER	201 B 201 SPARE SREAKER 16 201 C 201 SPARE SREAKER 16 201 C 201 SPARE SREAKER 18 201 A 201 SPARE SREAKER 20 201 B 201 SPARE SREAKER 20	
		7 DOAS-5LTS & RECEPT 9 DOAS-6LTS & RECEPT 11 DOAS-7LTS & RECEPT 14 DOAS-7LTS & RECEPT	500 C 201 A 201 100 C R-MMERBARCE FCJ B 500 C 201 B 151 218 M_E01A6 169 500 C 201 C 151 218 M_E01A6 169 500 C 201 C 151 974 M_E01A6 A FOLLORB 12	23 SPARE BREAKER 25 SPARE BREAKER 27 SPARE BREAKER	201 C 201 IPARE BEEAKER 24 201 A 201 SPARE BEEAKER 26 201 B 201 SPARE BEEAKER 28 201 B 201 SPARE BREAKER 28	keyplan revisions
		15 R - ROOF 16 AHU-1 LTS & RECEPT 17 AHU-4 LTS & RECEPT 19 R - ROOF	200 R 201 W IFS20 M FC306x AFCA08B V4 500 G 201 B 251 1520 M F52 M F52 F51 166 500 G 201 C 301 1,520 M EF2 16 500 K 201 A 201 300 R -72 16 500 K 201 A 201 300 R -72 16 500 K -72 16 </th <th>31 SPARE BREAKER 33 SPARE BREAKER 33 SPARE BREAKER 35 SPARE BREAKER</th> <th>Zabi C Zabi Difference 36 Zoht A Zoht SPARE BREAKER 32 Zoht B Zoht SPARE BREAKER 34 Zoht B Zoht SPARE BREAKER 34 Zoht C Zoht SPARE BREAKER 36</th> <th>ADD-01 08/22/2018 ADD-03 11/26/2018 PR-03 11/26/2018</th>	31 SPARE BREAKER 33 SPARE BREAKER 33 SPARE BREAKER 35 SPARE BREAKER	Zabi C Zabi Difference 36 Zoht A Zoht SPARE BREAKER 32 Zoht B Zoht SPARE BREAKER 34 Zoht B Zoht SPARE BREAKER 34 Zoht C Zoht SPARE BREAKER 36	ADD-01 08/22/2018 ADD-03 11/26/2018 PR-03 11/26/2018
		21 N - HALLWAYS 23 R - RESTROOMS 25 R - HALLWAYS 27 R - SPED OFFICE	ID00 IK 2011 B 2011 300 R -TEACHER COLLAG 343 22 500 R 2011 C 2011 300 R -TEACHER COLLAG 343 22 1000 R 2011 C 2011 300 R -TEACHER COLLAG 343 24 1,600 R 2011 A 2011 1,000 G PRIMER - TEACHER COLLAG 343 26 1,600 R 2011 1,000 R -CLASHER COLLAG 343 26 1,600 R 2011 1,000 R -CLASHER COLLAG 343 26	37 DYANE INICAREN 39 SPARE BREAKER 41 SPARE BREAKER Total Connected Log+ Ph. 4	Anr. A Z01 BMAR: bitCALK 38 201 B 201 SMAR: BitCALK 40 201 C 201 SMAR: BitCALK 40 201 C 201 SMAR: BitCALK 40 4.553 VA 40 Amrs Paged Connected: 137 KMA 50 A Amrs	PR-06 02/06/2019 PR-07 03/20/2019 CCD #21 44/20/2019
		29 R - SPED RES 347 31 R - SPED RES 347 33 R - CLASSROOM 341 35 R - CLASSROOM 341	Tool R 2017 C 2017 720 R R CLASSRCOM 340 39 900 R 1 2011 A 2017 10.00 R R CLASSRCOM 340 32 1,660 R 2:017 B 2017 10.00 R R CLASSRCOM 330 34 1,660 R 2:017 C 2017 10.00 R R CLASSRCOM 339 34	Total Connected Load: Ph. B Total Connected Load: Ph. C Notes:	4,424 VA 37 Arrips Sub-Fed Connected Low 0.0 VA 0.0 Arrips 4,424 VA 37 Arrips Total Dermand Load: 16.7 IXVA 48,4 Arrips Accessions:	CLD #31 11/20/2019 Revision 32 10/09/20 CCD #93 12/15/2021
		37 R - CLASSROOM 341 39 EWC-5 & TP-20 41 FSD - DOAS-05 42 OD-NE DEGAVER	Soot R 2011 A 2011 Soot R C-LOSSRCOLUSE 39 641 G 2011 B 2011 GO G C-LOSSRCOLUSE 39 640 G C 2011 C 2011 GO G COCHAD.OFEN 40 640 C C 2011 C 2011 600 C PSD-DDA8-64 40 640 C C 2011 C 2011 600 C PSD-DDA8-64 40	1. 2. 3. 4.		
		45 SPARE BREAKER 49 SPARE BREAKER 49 SPARE BREAKER	Avvi. A AVI. DPFAVIC DIFLAVE.N 44 2011 B 2011 SIAVE SREAKER. 46 2011 C 2011 SIAVE SREAKER. 46 2011 C 2011 SIAVE SREAKER. 46	L.		phase RECORD SET
		51 SPARE BREAKER 53 SPARE BREAKER Total Connected Load: Ph. A Total Connected Load: Ph. R	2011 B 2011 SPARE REAKER 52 32 2011 C 2011 SPARE REAKER 52 32 4201 C 2011 SPARE REAKER 52 32 4201 C 2011 SPARE REAKER 52 32 4201 C 2011 SPARE REAKER 52 31 50 April Parel Connected Load 28.7 tyta 72.6 Amps 31 50 April Spare State-Fer Lowarested Load 7.4 tyta 10.9 Amps	1	4MDS Generator 4EM1B 25B18 PR04601 2017-0517	Project 17010 PANEL SCHEDULES -
		Total Connected Load: Ph. C Notes: 1.	27.374 VA 228 Amps Total Damad Load: 50.8 KVA 165.9 Amps Accessories:	-	OEN 44FM2D 25828 contact Kim Wall 25810 44FM2B 25820 LN TERF 46M1D 46M3B 25820 LN UN TERF	ELECTRICAL
		2. 3. 4. 5.			2P38 95 94 96 95 96 96 96 97 720 4 TL 953.52.256 FA 95 312.276 4 TL 953.52.276 4	E6.02





Archiline is a linear outdoor light offering a high level of luminosity and flexibility. This extremely wide and competitive range is the result of many years' research. Each item is precision engineered using top-quality materials, and each Archiline family offers a range of outputs, with dedicated narrow, wide, eliptical and asymmetric wallwasher beams and optical compartments designed to ensure a uniquely pure beam, easy to plug connectors for simpler installation, various dimming protocols, a choice of monochrome warm and natural white or RGBW, with the colors being mixed in the optic.

Recessed model materials

Anodized 6060 aluminum alloy or AISI 316L stainless steel flange Extra-clear tempered glass or white ceramic varnished tempered glass diffuser

Wall/ceiling model materials

Anodized 6060 aluminum alloy or AISI 316L stainless steel body Extra-clear tempered glass diffuser



MAESTRO 2.2



Archiline_A



Archiline_I



	_A	_A Darklight	J	_I Darklight	
14.6 in	13.2 W	12 W	-	-	
14.8 in	-	-	13 W	12 W	
22.1 in	20 W	20 W	-	-	
22.2 in	-	-	20 W	20 W	
41.4 in	40 W	40 W	-	-	
41.9 in	-	-	40 W	40 W	
Finish					
powerLED	2700K 3000K 3500K 4000K RGB+W RGB+N	2700K 3000K 3500K 4000K	2700K 3000K 3500K 4000K RGB+W RGB+N	2700K 3000K 3500K 4000K	
Optics	Narrow S. Spot Medium FI. Flood Elliptical Asymmetric	Spot Medium Fl. Flood Elliptical	Narrow S. Spot Medium FI. Flood Elliptical Asymmetric	Spot Medium Fl. Flood Elliptical	
Driver	120/277VAC On/Off, 0-10V, DMX	120/277VAC On/Off, 0-10V	120/277VAC On/Off, 0-10V, DMX	120/277VAC On/Off, 0-10V	
Fixture	Alluminum Flange	Alluminum Flange/Draklight Louver	Stainless Steel Flange	Stainless Steel Flange/ Draklight Louver	
Continuous runs	Not recommended	Not recommended	Not recommended	Not recommended	MHS CO 12.15.20



High-quality construction

Archiline bodies are made from extruded 6060 aluminum alloy Anodized to 10 microns.

These two processes provide superior passive heat dissipation and, most importantly, higher corrosion resistance.

The caps are diecast.







Safety systems

We have developed a variety of corrosion protection technology to maximize the lifespan of our lights.

They also have overtension and electrical discharge protection, TCS® to shield their circuits from moisture, and AquaStop® water protection.



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The range

The Archiline range comprises four subranges of recessed mountings.

- ARCHILINE_F: trimless with extra-clear 0.5-inch tempered glass and blackscreenprinted optical compartment, with or without darklight or in RGBW. Designed for wall illumination, and can be placed in continuous runs.

- ARCHILINE_FL: trimless with extra-clear 0.5-inch tempered glass and white ceramic varnish, monochrome or RGBW versions. Designed for path marking in parks, squares, drives, and public spaces. Can be placed in continuous runs.

- ARCHILINE_A: 6060 aluminum alloy flange with extra-clear 0.5-inch tempered glass and black-screenprinted optical compartment, with or without darklight or in darklight+RGBW. Designed for wall illumination. Not recommended for continuous runs.

- ARCHILINE_I: AISI 316L stainless steel flange with extra-clear 0.5-inch tempered glass and black-screenprinted optical compartment, with or without darklight or in darklight+RGBW. Designed for wall illumination. Not recommended for continuous runs.

Optics

The Archiline range has optics for every type of design need.

- SPOT and NARROW SPOT for accent lighting - FLOOD and MEDIUM FLOOD for soft lighting of parts of walls

- ELLIPTIC 20 x50 , which projects an oval beam, ideal for grazing illumination of high and narrow walls

- ASYMMETRIC for a wallwasher effect.

Other features:

- Darklight versions, which section the beam by eliminating the direct component to the exterior and lighting only the wall

- Ability to create continuous lines without affecting the evenness of the light near the ends of each module. In the Archiline_F no-darklight versions, the diodes are arranged so as to maintain the same distance between each one, and between the last ones at each end.





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300 LUX

500 LUX

M48





Archiline_A | Linear profiles | 120-277V | powerLED | Wet location IP67 | Integral Driver | Walk over | 11.5W/ft





1.6

3.9

22.1

2.4

3.1

0.1 8

13W

Anod. Al. On/Off E92132	2700K	1686 lm	М	Narrow Spot	08
Anod. Al. 0-10V E83536	3000K	1686 lm	W	Spot	15
6 LEDs	3500K	1686 lm	Т	Medium Flood	30
	4000K	1806 lm	Ν	Flood	60
Installation accessories				Elliptical	25
				Asymmetric	27

2700K 2529 lm

3000K 2529 lm

3500K 2529 lm

4000K 2709 lm

E98671

Outer casing

20W	
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Anod. Al. On/Off E92134 Anod. Al. 0-10V E83537

9 LEDs

М	Narrow Spot	08
W	Spot	15
Т	Medium Flood	30
Ν	Flood	60
	Elliptical	25
	Asymmetric	27

Installation accessories

E98672

Outer casing 40W

1.6	
41.4	2.4
3.9	0.1

Anod. Al. On/	Off E92136	2700K	5058 lm	М	Narrow Spot	08
Anod. Al. 0-10	OV E83538	3000K	5058 lm	W	Spot	15
18 LEDs		3500K	5058 lm	Т	Medium Flood	30
		4000K	5418 lm	Ν	Flood	60
Installation	accessories				Elliptical	25
					Asymmetric	27
and the second s						

E98673	
Outer casing	

1.6	
60.7	2.4
3.9	0.1

Anod. Al. On/Off E81590	2700K	7171 lm	М	Narrow Spot	08
Anod. Al. 0-10V E83539	3000K	7171 lm	W	Spot	15
27 LEDs	3500K	7171 lm	Т	Medium Flood	30
	4000K	7667 lm	Ν	Flood	60
Installation accessories			Elliptical	25	
				Asymmetric	27

E99760 Outer casing

Cables On/Off

E99057	E98147	E98146
78.7 in power	196.9 in	393.7 in
supply cable	extension	extension
F 3 pin	M+F 3 pin	M+F 3 pin

Cables 0-10V

E99825 393.7 in extension cable for power + 0-10V dimming M+F 5 pin

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Archiline_F / _FL | Outer casing for trimless luminaires for floor-mounted recessed installation





Anod. Bk.	12.7 in x Archiline_F / _FL	E98724
Anod. Bk.	20.2 in x Archiline_F / _FL	E98725
Anod. Bk.	39.5 in x Archiline_F / _FL	E98726





These outer casings allow to create a continuous run

Anodization

Anodization is carried out in electrochemically controlled conditions, and creates a layer of oxide on the surface of the aluminum. This has excellent levels of adherence, compactness, hardness, and corrosion resistance.

Drive-over capability

The housings of the Archiline_F and FL versions have tempered glass, 0.47-inch ceramic powder coating, and will support a weight of up to five tonnes.









Archiline_A / _I | Outer casing for luminaires with trim, for floor-mounted recessed installation





Anod. Bk.	14in x Archiline_A / _I	E98671
Anod. Bk.	21.5 in x Archiline_A / _I	E98672
Anod Bk.	40.8 in x Archiline_A / _I	E98673
Anod. Bk.	60.1 in x Archiline_A / _I	E99760





Galvanization

The housings of the Archiline_A and I versions are galvanized for improved corrosion resistance and durability.

Drive-over capability

The flange of the Archiline_A is integrated into the extrusion, forming a more durable single unit that can support a weight of up to 1.5 tons.







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