LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	DRIVER	MOUNTING
A1	LITHONIA 2BLT4-30L-ADSM-MVOLT-EZ1-LP840 2'X4', 3000 LUMENS, ACRYLIC DIFFUSER, MATTE WHITE FINISH	WITH UNIT 4000K LED >80 CRI	STANDARD LED NON-DIMMING	RECESSED CEILING
A2	LITHONIA 2BLT4-40L-ADSM-MVOLT-EZ1-LP840 2'X4', 4000 LUMENS, ACRYLIC DIFFUSER, MATTE WHITE FINISH NLIGHT ENABLED	WITH UNIT 4000K LED >80 CRI	1% 0-10V DIMMING nLIGHT ENABLED	RECESSED CEILING
A3	LITHONIA 2BLT4-48L-ADSM-MVOLT-EZ1-LP840 2'X4', 4800 LUMENS, ACRYLIC DIFFUSER, MATTE WHITE FINISH NLIGHT ENABLED	WITH UNIT 4000K LED >80 CRI	1% 0-10V DIMMING nLIGHT ENABLED	RECESSED CEILING
A3G	LITHONIA 2BLT4-48L-ADSM-MVOLT-EZ1-LP840 2'X4', 4800 LUMENS, ACRYLIC DIFFUSER, MATTE WHITE FINISH NLIGHT ENABLED. INCLUDE DGA24 DRYWALL GYP CEILING	WITH UNIT 4000K LED >80 CRI	1% 0-10V DIMMING nLIGHT ENABLED	RECESSED IN GYP DRYWALL CEILING
B	LITHONIA 2BLT2-20L-ADSM-MVOLT-EZ1-LP840-DGA22 2'X2', 2000 LUMENS, ACRYLIC DIFFUSER, MATTE WHITE FINISH	WITH UNIT 4000K LED >80 CRI	STANDARD LED NON-DIMMING	RECESSED CEILING NOTE 5
C4	LITHONIA GRD-LSL-MSL4-80CRI-40K-ID1300LMF-0/100-NLIGHT-120 2'X4', LINEAR, 1300 NOMINAL LUMENS PER FOOT, 100% DIRECT, WHITE COLOR FINISH, NLIGHT ENABLED	WITH UNIT 4000K LED >80 CRI	0-10V DIMMING nLIGHT ENABLED	PENDENT STRUCTURE TO 9'-0" AFF NOTE 3
C8	LITHONIA GRD-LSL-MSL8-80CRI-40K-ID1300LMF-0/100-NLIGHT-120 2'X8', LINEAR, 1300 NOMINAL LUMENS PER FOOT, 100% DIRECT, WHITE COLOR FINISH, NLIGHT ENABLED	WITH UNIT 4000K LED >80 CRI	0-10V DIMMING, nLIGHT ENABLED	PENDENT STRUCTURE TO 9'-0" AFF NOTE 3
D	GOTHAM EVO-40/10-4WR-WD-LSS-MVOLT-EZ1 4" DIAMETER, WIDE LIGHT DISTRIBUTION, MULTI-VOLTAGE DRIVER, POLYCARBINATE LENS, STEEL HOUSING, WHITE TRIM, SEMI-SPECULAR FINISH	WITH UNIT 4000K LED >80 CRI	STANDARD LED NON-DIMMING	RECESSED CEILING NOTE 3
G	TERON VCY24-L18.0-120-277V-TE400-TW-40K 2"X2', ARCHITECTURAL VANITY LIGHT, WHITE POWDER COAT FINISH, ACRYLIC DIFFUSER, DAMP LOCATION LISTED	WITH UNIT 4000K LED >80 CRI	STANDARD LED NON-DIMMING	WALL ABOVE MIRROR
H	TECH 700BCRAER-6-48-C-LED840-277 1.7"X4', ABOVE MIRROR ARCHITECTURAL VANITY LIGHT 600LM/FT, CHROME FINISH	WITH UNIT 4000K LED >80 CRI	STANDARD LED NON-DIMMING	WALL ABOVE MIRROR
Z1	LITHONIA ZL1N-L48-5000-LM-FST-MVOLT-40K-80CRI-WH 2"X4', STRIPLIGHT, 5000 LUMEN PACKAGE, SNAP ON FROSTED, DIFFUSE, UNIVERSAL VOLTAGE, WHITE PAINT FINISH	WITH UNIT 4000K LED	STANDARD LED NON-DIMMING	SURFACE OR PENDENT MOUNT NOTE 6
Z2	LITHONIA ZL1N-L48-7000-LM-FST-MVOLT-40K-80CRI-WH 2"X4', STRIPLIGHT, 7000 LUMEN PACKAGE, SNAP ON FROSTED, DIFFUSE, UNIVERSAL VOLTAGE, WHITE PAINT FINISH	WITH UNIT 4000K LED	STANDARD LED NON-DIMMING	SURFACE OR PENDENT MOUNT NOTE 6
SB1	LITHONIA DSXW1-LED-20C-350-40K-T3M-MVOLT-DDBXD EXTERIOR SURFACE WALL MOUNT LED, 3000 LUMENS, FULL CUTOFF	WITH UNIT 4000K LED	STANDARD LED NON-DIMMING	SURFACE WALL TO 10'-0" AFG
SB2	LITHONIA DSXW1-LED-20C-1000-40K-T3M-MVOLT-DDBXD EXTERIOR SURFACE WALL MOUNT LED, 7000 LUMENS, FULL CUTOFF	WITH UNIT 4000K LED	STANDARD LED NON-DIMMING	SURFACE WALL TO 12'-0" AFG
EX	LITHONIA LIGHTING LQC 2 G EL N LED EXIT SIGN WITH BRUSHED ALUMINUM HOUSING, GREEN DIFFUSE STENCIL LETTERS, ARROWS AS SHOWN ON DRAWINGS NICKEL-CADMIUM BATTERY BACKUP	WITH UNIT	N/A	WALL OVER DOOR OR CEILING AS NOTED NOTE 2
XA	LITHONIA LIGHTING EU2 LED M12 HIGH-IMPACT THERMOPLASTIC HOUSING, LED LAMPS, TEST SWITCH, STATUS INDICATOR, NICKEL-CADMIUM BATTERY BACKUP.	WITH UNIT	N/A	WALL OR CEILING MOUNT NOTE 2

FIXTURE SCHEDULE NOTES

1 REFER TO SPECIFICATION SECTIONS 265000 AND 265010 FOR ADDITIONAL REQUIREMENTS REGARDING LIGHT FIXTURES, LEDS, LAMPS, DRIVERS AND BALLASTS.
2 PROVIDE AN UNSWITCHED CIRCUIT CONNECTION (CIRCUIT AS NOTED ON DRAWINGS) TO EXIT SIGNS (FIXTURE TYPE EX), EMERGENCY LIGHTINC FIXTURES (TYPE XA AND FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACK).
3 PROVIDE EMERGENCY BATTERY PACK OPTION FOR FIXTURES NOTED ON THE DRAWINGS AS EMERGENCY FIXTURES.
4 NOT USED
5 PROVIDE WITH DRYWALL GRID ADAPTER KIT, CATALOG #DGA22.
6 PENDENT FIXTURES TO 10 FEET 0 INCHES TO BOTTOM OF FIXTURE IN AREAS WITH OPEN CEILING. FIXTURE PENDANTS SHALL BE RIGID (THREADED HANGAR RODS) AND SHALL BE SWAY BRACED WHERE PENDENTS EXCEED 24 INCHES IN LENGTH. SURFACE MOUNT FIXTURES IN AREAS WITH HARD LID CEILING.

ELECTRICAL SERVICE CALCULATION

Square Feet: 8,000

Item	Quan	VA Per Unit	Undiv. KVA	NEC Factor	KVA Load
Electrical:					
Lights-First Floor, NEC 220.12, per square foot	8000	3.5	28.0	1.25	35.0
Outlets, NEC 220.14(I) 2 per 100 square feet	160	180	28.8	0.67	19.4
Lights-Exterior	6	50	0.3	1.25	0.4
Mechanical:					
RTU-1(E)	1	10000	10.0	1.00	10.0
RTU-2(E)	1	10000	10.0	1.00	10.0
RTU-3(E)	1	10000	10.0	1.00	10.0
RTU-4(E)	1	10000	10.0	1.00	10.0
RTU-5(E)	1	10000	10.0	1.00	10.0
MAU-1	1	1840	1.8	1.00	1.8
ACU-1	1	3432	3.4	1.00	3.4
EWH-1	1	2310	2.3	1.00	2.3
EWH-2	1	2310	2.3	1.00	2.3
EF-1 1/12 HP	1	300	0.3	1.00	0.3
EF-2 135W	1	135	0.1	1.00	0.1
EF-3 135W	1	135	0.1	1.00	0.1
WH-1(E)	1	4500	4.5	1.00	4.5
DF-1H Bottle Fill Station 120W	1	120	0.1	1.00	0.1
25% largest motor		10000		0.25	2.5
			122.2 KVA		122.4 KVA
Service Parameters: 208 Volts					
3 Phase			339 amps		340 amps

This load has been calculated in accordance with the National Electrical Code (NEC) Article 220 and represents the estimated load with NEC factors applied.
The load has been converted from kVA to kW by applying an estimated total power factor.
Refer to the calculation below:

Total Load with NEC Factors Applied (kVA): 122.4 kVA
Estimated Power Factor for Facility: 0.9
Total Load with NEC Factors Applied (kW): 110.16 kW

A.I.R. REQUIREMENTS

SHORT CIRCUIT AND SERVICE NOTES:

BASED ON THE FOLLOWING:

UTILITY	=	MLP	
TRANSFORMER SIZE	=	75	KVA
TRANSFORMER IMPEDANCE	=	1.60	% Z
LENGTH OF SERVICE CONDUCTORS	=	26	FEET
SERVICE CONDUCTOR SIZE	=	#4/0 AWG	
NUMBER OF PARALLEL RUNS	=	2	
CONDUIT TYPE	=	Copper in Metal Raceway	
MOTOR CONTRIBUTION	=	67	HP

AVAILABLE SHORT CIRCUIT AMPS SUMMARY

LOCATION	CT CAN		200A DISC	400A DISC	PANEL A
SCA RMS	12,500		12,300	12,200	11,200
LOCATION	PANEL B	PANEL C			
SCA RMS	6,800	12,100			

THE ABOVE DATA (OTHER THAN MOTOR LOAD) SHALL BE CONFIRMED WITH THE SERVING UTILITY BEFORE EQUIPMENT IS ORDERED. ANY VARIATIONS THAT MIGHT INCREASE AVAILABLE SHORT-CIRCUIT CURRENT SHALL BE REPORTED TO THE CONTRACTING AGENCY.

SERVICE EQUIPMENT SHALL HAVE AN INTEGRATED SHORT CIRCUIT RATING SUITABLE FOR THE AVAILABLE SCA. DOWNSTREAM EQUIPMENT AND CIRCUIT BREAKER AIC RATINGS MAY BE SATISFIED BY UTILIZING ONE OF THE FOLLOWING METHODS:

1. EQUIPMENT RATED FOR THE AVAILABLE SCA AT EACH POINT IN THE SYSTEM.
2. UL-LISTED SERIES-CONNECTED CIRCUIT BREAKER COMBINATIONS RATED FOR THE AVAILABLE SCA AT EACH POINT.

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PROJECT TITLE: UAA ANSEP ULA RENOVATION
ADDRESS: UNIVERSITY LAKE BUILDING - BUILDING AO 107
OWNER: UNIVERSITY OF ALASKA ANCHORAGE
SHEET TITLE: SCHEDULES

NO	DESCRIPTION	DATE

DATE : 2017.04.07
PROJECT NO : 17-0103
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