11/23/2021 5:06:21 PM

LIGHT FIXTURE SCHEDULE

FIXT. LTR.	MANUFACTURER	CATALOG NUMBER	LAMPS #	LAMPS TYPE	DRIVER #	DRIVER TYPE	FIXT. VOLT.	FINISH	MOUNTING	FIXTURE VA	REMARKS/DESCRIPTION	SPECIFIC NOTES
(R)	EXISTING	-	-	-	-	-	120	-	-	0	RELOCATE EXISTING FIXTURE.	
A1	WILLIAMS	76-4-L32/835-DRV-UNV	-	LED	-	NON-DIM	120	STANDARD	SUSPENDED	23	4' LED LENSED STRIP.	
A1E	WILLIAMS	76-4-L32/835-DRV-UNV-EM/10W	-	LED	-	NON-DIM	120	STANDARD	SUSPENDED	23	SAME AS 'A1' WITH BATTERY.	
A2	COOPER	4VT2-LD5-4-DR-UNV-L35-CD1-WL-SSL	-	LED	-	NON-DIM	120	STANDARD	SUSPENDED	23	4' LED LENSED STRIP. WET LISTED. STAINLESS STEEL LATCHES.	
B1	WILLIAMS	ILP-22-L50/840-DIM-UNV	-	LED	-	NON-DIM	120	STANDARD	RECESSED	40	2' X 2' LED FLAT PANEL.	
W1E	US ARCHITECTURAL	RZR-WM1-PLED-IV-20LED-700MA-C W-277-RAL-9005-T-EM1	-	LED	-	NON-DIM	277	BRONZE	WALL	44	LED WALL PACK WITH BATTERY.	
W2E	US ARCHITECTURAL	RZR-WM1-PLED-IV-20LED-700MA-C W-120-RAL-9005-T-EM1-PV120V	-	LED	-	NON-DIM	120	BRONZE	WALL	44	LED WALL PACK WITH BATTERY AND PHOTOCELL.	
X1	SURE LITE	LPX7	-	LED	-	-	120	STANDARD	WALL/CEILING	1	EXIT SIGNAGE.	

GENERAL NOTES (APPLY TO ALL LIGHTING):

A. ALL LIGHTING FIXTURES SHALL BE RATED FOR LIGHTING POWER CIRCUIT VOLTAGE. CONTRACTOR MUST VERIFY ALL LOCATIONS.
B. ELECTRICAL CONTRACTOR SHALL CHECK AND COORDINATE ALL LIGHTING FIXTURE CATALOG NUMBERS WITH THE INTENT OF FIXTURE DESCRIPTIONS, LISTED ACCESSORIES AND TYPE OF INSTALLATION.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE EACH LIGHTING FIXTURE COMPLETE WITH PLASTER FRAMES AND ALL OTHER INSTALLATION AND HANGING HARDWARE AS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION AT EACH FIXTURE LOCATION.
D. ALL FIXTURES SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELED. ALL LIGHTING FIXTURES EXPOSED TO WEATHER, MOISTURE, OR OTHER ENVIRONMENTS SHALL BEAR THE APPLICABLE ENVIRONMENTAL OR APPLICATION LABEL.
E. ALL EXIT/DIRECTIONAL SIGNS SHALL BE INSTALLED COMPLETE WITH ALL INSTALLATION AND HANGING ACCESSORIES TO PROVIDE AN UNOBSTRUCTED VIEW OF EACH SIGN FACE. SIGNS WILL BE ADJUSTED AS NECESSARY WITHOUT ADDITIONAL COST TO THE OWNER.
F. SIGNS TO READ "EXIT". SIGNS WILL BE SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS, AS SHOWN ON PLANS. SIGNS IN GENERAL WILL BE CEILING MOUNTED, LOCATED AND ADJUSTED FOR BEST VIEW. PENDANTS SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON PLANS. SHADED PORTION OF EXIT SYMBOL DENOTES ILLUMINATION FACE.
G. REFER TO APPLICABLE SECTIONS OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR LIGHTING FIXTURES.
H. VERIFY ALL LIGHTING FIXTURE LOCATIONS, FINISHES AND CEILING TYPES WITH ARCHITECT PRIOR TO INSTALLING. VERIFY VOLTAGE WITH ENGINEER PRIOR TO INSTALLING.
I. ELECTRICAL CONTRACTOR TO FIELD ADJUST AIMING PATTERN OF EXTERIOR LIGHTS AT NIGHT SESSION. OWNER & ARCHITECT TO DETERMINE TIME AND DATE.
J. INSTALLATION ELEVATION SHOWN IS FROM AFF OR AFG AS OBVIOUSLY APPLICABLE, TO CENTER OF OUTLET BOX, UNLESS OTHERWISE NOTED.
K. FIXTURE SUBSTITUTIONS: SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL, 7 BUSINESS DAYS PRIOR TO BID. SUBMIT CUT SHEETS OF SPECIFIED ITEM ALONG WITH A CUT SHEET OF THE DESIRED SUBSTITUTION, WITH ALL DIFFERENCES NOTED. EMAIL CUT SHEETS INCLUDING PHOTOMETRIC INFORMATION TO ELECTRICAL ENGINEER. FAX TRANSMISSIONS ARE NOT ACCEPTABLE. SUBSTITUTIONS NOT SUBMITTED AS PER THIS PROCEDURE WILL NOT BE CONSIDERED. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL OF A PROPOSED SUBSTITUTE SHALL BE FINAL.
L. SHOP DRAWINGS: DIFFERENCES SHALL BE SPECIFICALLY NOTED ON THE "SHOP DRAWINGS," THIS INCLUDES BUT IS NOT LIMITED TO: FIXTURE SUBSTITUTIONS, LAMPS, VOLTAGE, MOUNTING, PHYSICAL DIMENSIONS AND FINISHES. FAILURE TO COMPLY DOES NOT RELIEVE THE CONTRACTOR OF DESIGN DOCUMENT INTENTION AND WILL NOT BE REASON FOR ADDITIONAL REINBURSEMENT. ADDITIONAL REQIREMENTS MAY BE FOUND ELSEWHERE IN THE DRAWINGS OR SPECIFICATIONS.

SPECIFIC NOTES (AS REFERENCED TO IN SCHEDULE)

TRANSFORMER SCHEDULE

MARK	EQUIPMENT SERVED	KVA RATING	PHASE	PRIMARY VOLTAGE	PRIMARY CONNECTION	SECONDARY VOLTAGE	SECONDARY CONNECTION	NOTES
TS-L4	PANEL 'L-4'	15 kVA	3	480V	DELTA	208Y/120V	WYE	1,2,3

NOTES:
1. REFER TO SPECIFICATIONS FOR TRANSFORMER WINDING TYPE.
2. INSTALL FLOOR MOUNTED TRANSFORMERS ON 4" HOUSEKEEPING PAD. REFER TO DRAWINGS FOR LOCATIONS.
3. PROVIDE NEMA 3R ENCLOSURE.

EQUIPMENT CONNECTION SCHEDULE

MARK	DESCRIPTION	UNIT VOLTAGE	PHASE	FULL LOAD AMPS	MOCP	PANEL	CIRCUIT NUMBER	# OF POLES	DISCONNECT TYPE	DISCONNECT ENCL. RATING (NEMA)	DISCONNECT FUSE SIZE AMPS*	STARTER TYPE	STARTER ENCL. RATING (NEMA)	STARTER NEMA SIZE	FEEDER SETS	FEEDER WIRE AND CONDUIT	CONTROLLER	REMARKS
DSS-1A	DUCTLESS SPLIT SYSTEM #1 - INDOOR	240	1	1.0	30			2	T-20A	1	-	PWE	-	-	1	(2)-#10, #10GND IN 0.5"C.	THERMOSTAT	2, 3
DSS-1B	DUCTLESS SPLIT SYSTEM #1 - OUTDOOR	240	1	11.0	30	LCD	34,36	2	S-30A	3R	-	PWE	-	-	1	(2)-#10, #10GND IN 0.5"C.	DSS-1A	2, 3
DSS-2A	DUCTLESS SPLIT SYSTEM #2 - INDOOR	240	1	1.0	15			2	T-15A	1	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	THERMOSTAT	2
DSS-2B	DUCTLESS SPLIT SYSTEM #2 - OUTDOOR	240	1	7.0	15	LCD	3,5	2	S-30A	3R	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	DSS-2A	2
DSS-3A	DUCTLESS SPLIT SYSTEM #3 - INDOOR	240	1	1.0	15			2	T-15A	1	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	THERMOSTAT	2
DSS-3B	DUCTLESS SPLIT SYSTEM #3 - OUTDOOR	240	1	7.0	15	LCD	7,9	2	S-30A	3R	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	DSS-3A	2
EF-3	EXHAUST FAN #3 (R)	120	1	5.8	15	L-4	4	1	T-15A	1	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	CONTINUOUS	1
EF-8	EXHAUST FAN #8	120	1	0.6	15	L-4	2	1	PWE	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	SWITCH W/LTS	
EF-9	EXHAUST FAN #9	120	1	0.6	15	L-4	2	1	PWE	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	SWITCH W/LTS	
EWH-1	ELECTRIC WATER HEATER #1	480	1	75.0	100	MDP-A	11	2	CB	-	-	PWE	-	-	1	(2)-#1, #8GND IN 1.25"C.	E/M	4
EWH-3	ELECTRIC WALL HEATER #3	277	1	10.8	15	H-2	23	1	PWE	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	THERMOSTAT	
EWH-4	ELECTRIC WALL HEATER #4	277	1	10.8	15	H-2	25	1	PWE	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	THERMOSTAT	
GWH-1	GAS WATER HEATER #1	120	1	0.8	15	L-4	6	1	T-15A	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	E/M	
GWH-2	GAS WATER HEATER #2	120	1	0.8	15	L-4	6	1	T-15A	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	E/M	
GWH-3	GAS WATER HEATER #3	120	1	0.8	15	L-4	6	1	T-15A	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	E/M	
RCP-1	RECIRCULATING PUMP #1	120	1	2.8	15	L-4	8	1	T-15A	-	-	PWE	-	-	1	(2)-#12, #12GND IN 0.5"C.	AQUASTAT	
RTU-3	ROOFTOP UNIT #3	240	1	179.0	225	MDP-C	4	2	PWE	-	-	PWE	-	-	1	(2)-#4/0, #4GND IN 1.5"C.	THERMOSTAT	
RTU-4	ROOFTOP UNIT #4	480	3	27.0	40	H-2	17,19,21	3	PWE	-	-	PWE	-	-	1	(3)-#8, #10GND IN 0.75"C.	THERMOSTAT	

TABLE ABBREVIATIONS:

GENERAL
- **ENCL -** ENCLOSURE
- **PWE -** PROVIDED WITH EQUIPMENT. WIRING CONNECTIONS BY ELECTRICAL CONTRACTOR.
- **PBO -** PROVIDED BY OTHERS.
- *** -** SEE SPECIFICATIONS FOR TYPE.

STARTERS
- **MS -** MAGNETIC OR SOLID STATE
- **2 -** 2-SPEED, ADDED TO PREVIOUS
- **V -** VARIABLE FREQUENCY DRIVE
- **C -** COMBINATION STYLE
- **R -** INTERPOSING RELAY
- **M** (OR **T**) **-** MANUAL - SEE DISCONNECT FOR T.

DISCONNECTS
- **S -** SAFETY SWITCH
- **T -** TOGGLE TYPE
- **P -** CORD AND PLUG.

CONTROLLERS
- **I -** INTERLOCK
- **BCS -** BUILDING CONTROL SYSTEM
- **E/M -** EQUIPMENT MANUFACTUER CONTROL

REMARKS:
1) INTERLOCK FAN OPERATION WITH LOUVER L-14.
2) INDOOR UNIT POWERED FROM OUTDOOR UNIT. SUPPLY INTERCONNECTION WIRE BETWEEN UNITS. RUN AN ADDITIONAL 1"C. BETWEEN UNITS FOR CONTROLS.
3) UNIT TO BE RELOCATED. EXTEND CONDUIT AND WIRE AS NECESSARY TO NEW LOCATION.
4) CIRCUIT BREAKER IN PANEL TO SERVE AS EQUIPMENT DISCONNECT. PROVIDE BREAKER CAPABLE OF LOCKING IN THE OPEN (OFF) POSITION.

PANEL: L-4 — BRANCH PANELBOARD - NORMAL POWER

LOCATION: EXISTING FIELDHOUSE 110 | **VOLTAGE:** 120/208 | **A.I.C.:** 10000
FED FROM: TS-L4 | **PHASE:** 3 | **MAINS:** 125 A
MOUNTING: Surface | **WIRES:** 4 | **M.C.B.:** 60 A
ENCLOSURE: Type 1

LOAD TYPE: L=LIGHTING, R=RECEPTACLE, M=MOTORS, Ho=HOSPITAL, K=KITCHEN, H=HEAT, Mi=MISC

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	A		B		C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1	R LOCKER RM NW	20 A	1	R	900	792					M; L	1	15 A	L LOCKER, EF-8, EF-9	2
3	R RR/REF/EXT	20 A	1	R			1080	696			M	1	15 A	EF-3, L-14	4
5	R LOCKER RM NE	20 A	1	R					900	270	Mi	1	15 A	GWH-1, -2, -3	6
7	HAND DRYER	20 A	1	H	1500	336					M	1	15 A	RCP-1	8
9	HAND DRYER	20 A	1	H			1500	0			--	1	20 A	Spare	10
11	HAND DRYER	20 A	1	H					1500	0	--	1	20 A	Spare	12
13	HAND DRYER	20 A	1	H	1500	0					--	1	20 A	Spare	14
15	HAND DRYER	20 A	1	H			1500	0			--	1	20 A	Spare	16
17	HAND DRYER	20 A	1	H					1500	0	--	1	20 A	Spare	18
19	Spare	20 A	1	--	0	0					--	1	20 A	Spare	20
21	Spare	20 A	1	--			0	0			--	1	20 A	Spare	22
23	Spare	20 A	1	--					0	0	--	1	20 A	Spare	24
25	Spare	20 A	1	--	0	0					--	1	20 A	Spare	26
27	Spare	20 A	1	--			0	0			--	1	20 A	Spare	28
29	Spare	20 A	1	--					0	0	--	1	20 A	Spare	30
	TOTAL LOAD / PHASE (VA)				5028 VA		4776 VA		4170 VA						
	TOTAL AMPS / PHASE				42.7 A		40.6 A		34.8 A						

LOAD SUMMARY

LOAD TYPES	CONNECTED LOAD	DEMAND FACTOR	DEMAND	PANEL TOTALS	
LIGHTS	648 VA	1.25 CONTINUOUS	810 VA		
RECEPTACLES	2880 VA	Per NEC Table 220.44	2880 VA	TOTAL CONN. LOAD (VA)	13974
MOTORS	1176 VA	Per NEC 220.50	1350 VA	TOTAL DEMAND LOAD (VA)	14310
HOSPITAL		Per NEC Table 220.11		TOTAL CONN. CURRENT	38.8
KITCHEN		Per NEC Table 220.56		TOTAL DEMAND CURRENT	39.7
HEAT	9000 VA	Per NEC 220.51	9000 VA		
MISC	270 VA	1.00	270 VA		

NOTES:
1. PROVIDE PANEL WITH HINGED COVER.

PANEL: H-2 — BRANCH PANELBOARD - NORMAL POWER

LOCATION: EXISTING FIELDHOUSE 110 | **VOLTAGE:** 277/480 | **A.I.C.:** 14,000
FED FROM: MDP | **PHASE:** 3 | **MAINS:** 125 A
MOUNTING: Surface | **WIRES:** 4 | **M.C.B.:** 125 A
ENCLOSURE: Type 1

LOAD TYPE: L=LIGHTING, R=RECEPTACLE, M=MOTORS, Ho=HOSPITAL, K=KITCHEN, H=HEAT, Mi=MISC

CKT	LOAD DESCRIPTION	TRIP	POLE	TYPE	A		B		C		TYPE	POLE	TRIP	LOAD DESCRIPTION	CKT
1	LGTS INDOOR FIELDS	20 A	1	--	0	0					--	1	20 A	LGTS INDOOR FIELDS	2
3	LGTS INDOOR FIELDS	20 A	1	--			0	0			--	1	20 A	LGTS INDOOR FIELDS	4
5	LGTS INDOOR FIELDS	20 A	1	--					0	0	--	1	20 A	LGTS INDOOR FIELDS	6
7	LGTS INDOOR FIELDS	20 A	1	--	0	0					--	1	20 A	LGTS INDOOR FIELDS	8
9	LGTS INDOOR FIELDS	20 A	1	--			0	0			--	1	20 A	LGTS INDOOR FIELDS	10
11	LGTS INDOOR FIELDS	20 A	1	--					0	0	--	1	20 A	LGTS INDOOR FIELDS	12
13	LGTS INDOOR FIELDS	20 A	1	--	0	0					--	1	20 A	EXTERIOR LIGHTING	14
15	LGTS INDOOR FIELDS	20 A	1	--			0	0			--	1	20 A	EXTERIOR LIGHTING	16
17									7482	0	--	1	20 A	LCP-1	18
19	**RTU-4 (2)**	40 A	3	M	7482	5028					Spare; R; M;...	3	25 A	**TS-L4 (2)**	20
21							7482	4776							22
23	**EWH-3 (2)**	15 A	1	H					2992	4170					24
25	**EWH-4 (2)**	15 A	1	H	2992	0									26
27	Spare	20 A	1	--			0	0			--	3	15 A	TS-L2	28
29	Spare	20 A	1	--					0	0					30

NOTES:
1. EXISTING PANEL LOADS SHOWN FOR REFERENCE.
2. PROVIDE NEW BREAKER AS SCHEDULED.

IMPROVEMENT

MDP-C — CIRCUIT BREAKER DISTRIBUTION PANEL SCHEDULE

BRANCH DISTRIBUTION - NORMAL POWER

TYPE: I-LINE | **MOUNTING:** SURFACE | **A.I.C. RATING:** 65000
MAIN SIZE: 800A | **VOLTAGE:** 240/120 | **LOCATION:**
MAIN BREAKER: 800A | **PHASE:** 1 | **SERVED BY:** UTILITY
MOUNTING SPACE: 54" | **WIRE:** 3

CKT	LOAD DESCRIPTION	FRAME (AMPS/POLE)	TRIP (AMPS)	CIRCUIT BREAKER TYPE	MOUNTING HEIGHT
1	LCA		300		
2	LCC		600		
3	LCD		300		
4	**RTU-3 (2)**	250/2	225		
	SPACE	--	--	--	
TOTALS					

NOTES:
1. EXISTING PANEL LOADS SHOWN FOR REFERENCE.
2. PROVIDE NEW BREAKER AS SCHEDULED. MATCH EXISTING PANEL BREAKER TYPE.

IMPROVEMENT

MDP-A — CIRCUIT BREAKER DISTRIBUTION PANEL SCHEDULE

BRANCH DISTRIBUTION - NORMAL POWER

TYPE: I-LINE | **MOUNTING:** SURFACE | **A.I.C. RATING:** 65000
MAIN SIZE: 800A | **VOLTAGE:** 480/240 | **LOCATION:** MECH/ELEC 108
MAIN BREAKER: 800A | **PHASE:** 1 | **SERVED BY:** UTILITY
MOUNTING SPACE: | **WIRE:** 3

CKT	LOAD DESCRIPTION	FRAME (AMPS/POLE)	TRIP (AMPS)	CIRCUIT BREAKER TYPE	MOUNTING HEIGHT
1	TVSS		30		
2	WATER HEATER		60		
3	SPARE		30		
4	ECH-1		30		
5	NW FIELD LIGHTS		150		
6	EUH-4		40		
7	SW FIELD LIGHTS		150		
8	SE FIELD LIGHTS		150		
9	MDP-B		225		
10	NE FIELD LIGHTS		150		
11	**EWH-1 (2)**	100/2	100		
12					
	SPACE	--	--	--	
TOTALS					

NOTES:
1. EXISTING PANEL LOADS SHOWN FOR REFERENCE.
2. PROVIDE NEW BREAKER AS SCHEDULED. MATCH EXISTING BREAKER TYPE 'KA'.

H-2 LOAD CALCULATION

EXISTING LOAD PER PHASE 3/4 DRAWINGS	52.9 KW
ADDED LOAD	42.4 KW
NEW TOTAL LOAD (KW)	95.3 KW
NEW TOTAL LOAD (AMPS)	114.8 A
REMAINING SPARE CAPACITY (125A MCB)	10.2 A

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PHASE 8 INDOOR FACILITY AND STADIUM IMPROVEMENTS

STRYKER SPORTS COMPLEX

WICHITA, KANSAS

ELECTRICAL SCHEDULES

PROJECT NO.	1701010567
DATE	11-24-2021
SCALE	AS NOTED

DESIGNED	DRAWN	CHECKED
GAKH	GAKH	JRBW

NO.	REVISION	DATE
0	ISSUED FOR CONSTRUCTION	11-24-21

SHEET NO.
SE4.1

BIM 360://01088521003_StrykerRemodel/1710567_Stryker Additions_MEP.rvt