CURTIS A. OLDS LICENSE # PE-2018036640

0.673% 1.582%

E103 SOUTHERN BASEBALL/SOFTBALL FIELD(S)SPORTS LIGHTING

POLES HAVE BEEN REMOVED FROM PROJECT SCOPE. CONTRACTOR TO PROVIDE PROVISIONS FOR FUTURE SPORTS LIGHTING POLES AT SOUTHERN BASEBALL/SOFTBALL FIELD(S). PROVIDE (1) HAND HOLE AND (1) 1" CONDUIT WITH PULL STRING PER FUTURE SPORTS LIGHTING POLE LOCATION. CONDUITS TO BE THAT ARE IN SCOPE.

ROUTED TO CONCESSION STAND AND STUBBED UP AND CAPPED NEAR CONDUITS FOR SPORTS LIGHTING POLES

APPROXIMATE LOCATION OF MONUMENT SIGN. ROUTE 2 STRANDS SMF FROM BUILDING S TO FIBER CONVERTER AT MONUMENT SIGN. COORDINATE REQUIREMENTS WITH SIGN MANUFACTURER.

												TYPICAL	PER FIXTUE	IEIGHTS AR RE UNLESS ON PLANS.
Γ			VOLT	AGE DR	OP C	ALCUL	ATIO	NS - A	ATHLE	ETIC	LIGHTI	NG		
					Conduit	Conductor	No.	Wire			Circuit	Power	Circuit	Branch
	PNL***-CKT	Ident	ification	Source Pole	Туре	Material	of	Size	Voltage	Phase	Length	Factor	Load	Voltage Dr
		Pole	Fixture		P or S	CU or AL	Sets	(Phase)			(Feet)*	(PF)	(Amps)**	(%)
	1,3,5	SA1	-	-	Р	CU	1	10	480	3	235	0.90	5.900	0.551%
	7,9,11	SA2	-	-	Р	CU	1	10	480	3	385	0.90	5.900	0.903%
	13,15,17	SB1	-	-	Р	CU	1	10	480	3	235	0.90	10.500	0.981%
	19,21,23	SB2	-	-	Р	CU	1	10	480	3	565	0.90	10.500	2.359%
	25,27,29	SA3	_	_	P	CU	1	10	480	3	315	0.90	9.100	1.140%
	31,33,35	SA4	-	-	Р	CU	1	10	480	3	440	0.90	9.100	1.592%
ı	37,39,41	SB3	-	-	Р	CU	1	8	480	3	410	0.90	17.300	1.855%
T	43,45,47	SB4	-	-	Р	CU	1	6	480	3	630	0.90	19.200	2.022%
	49,51,53	SC1	-	-	Р	CU	1	6	480	3	755	0.90	15.300	1.931%
	55,57,59	SC2	-	-	Р	CU	1	6	480	3	890	0.90	15.300	2.276%
UT	2,4,6	SA5	_	_	P	CU	1	10	480	3	415	0.90	9.100	1.501%
υτĎ	8,10,12	SA6	_	_	Р	CU	1	10	480	3	485	0.90	9.100	1.755%
UΤĴ	14,16,18	SB5	-	-	Р	CU	1	8	480	3	540	0.90	14.100	1.991%
UT)	20,22,24	SB6	-	-	Р	CU	1	8	480	3	620	0.90	14.100	2.286%
υτ <u>]</u>	26,28,30	SC3	-	-	Р	CU	1	8	480	3	830	0.90	10.900	2.366%
υт]	32,34,36	SC4	-	-	Р	CU	1	8	480	3	880	0.90	10.900	2.508%
υт)													
UT	38,40,42	SA7	-	-	Р	CU	1	10	480	3	310	0.90	9.100	1.122%
∙ит§	44,46,48	SA8	-	-	Р	CU	1	10	480	3	140	0.90	9.100	0.507%

*Circuit length assumes reasonable conduit paths to pole, routed around playing field, 90-degree turns, and 70' for maximum pole height. Circuit length shall be assumed as approximate. Provide documentation during athletic field lighting submittal for review - contractor shall update circuit length and confirm no circuits exceed 2.8% voltage drop. Conduit pathways shall not be routed under any playing surfaces. **Circuit load provided by Musco Lighting

2 ***Circuits are fed from panel IHS and norted through Musea Lighting relay panels ** FUT - Indicates pole is in a future scope, information left in for refernce only, provide conduits for future as indicated } Manuel Ma

ALTERNATE NO. 3 - ATHLETIC FIELD LIGHTING:

TO MONUMENT SIGNAGE -

— (1) 2" CONDUÏT

(2) 1" CONDUIT FOR SCOREBOARD POWER COORDINATE FINAL SCOREBOARD LOCATION PRIOR TO CONDUIT INSTALL

H1S-158,160,162

IRRIGATION PUMP...

- A. NO FIELD LIGHTING TO BE PROVIDED FOR BASEBALL/SOFTBALL. BELOW GRADE CONDUIT TO POLE LOCATIONS TO BE PROVIDED FOR FUTURE FIELD LIGHTING.
- ELECTRICAL SERVICE AT CONCESSIONS BUILDING TO BE SIZED TO SUPPORT FIELD LIGHTING FOR ALL FOUR BASEBALL/SOFTBALL FIELDS. ALTERNATE BID #1 -
- A. BASE BID + FIELD LIGHTING TO BE PROVIDED FOR TWO NORTH VARSITY COMPETITION BASEBALL/SOFTBALL FIELDS.
- ALTERNATE BID #2 -BASE BID + ALTERNATE BID #1 + FIELD LIGHTING TO BE PROVIDED FOR TWO SOUTH BASEBALL/SOFTBALL FIELDS.
- REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALTERNATES.

- E34 RE: VOLTAGE DROP AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION. TYPICAL OF SA#, SB#, AND SC#
- ATHLETIC FIELD LIGHTING FIXTURES. E98 PROVIDE PEDESTAL MOUNTED RECEPTACLE TO SERVE
- IRRIGATION CONTROLLER, COORDINATE LOCATION WITH ARCHITECT.

 E102 SOUTHERN BASEBALL/SOFTBALL FIELD(S)SPORTS LIGHTING POLES HAVE BEEN REMOVED FROM PROJECT SCOPE. CONTRACTOR TO PROVIDE PROVISIONS FOR FUTURE

ELECTRICAL PLAN NOTES:

- SPORTS LIGHTING POLES AT SOUTHERN BASEBALL/SOFTBALL FIELD(S). PROVIDE (1) HAND HOLE, (1 1" CONDUIT WITH PULL STRING AND (1) 3/4" CONDUIT WITH PULL STRING (FOR FUTURE POLE MOUNTED SECURITY LIGHTING) PER FUTURE SPORTS LIGHTING POLE LOCATION. CONDUITS TO BE ROUTED TO CONCESSION STAND AND STUBBED UP AND CAPPED NEAR CONDUITS FOR SPORTS LIGHTING POLES THAT ARE IN SCOPE.

13-20102-00 **ELECTRICAL SITE** PLAN - AREA 1

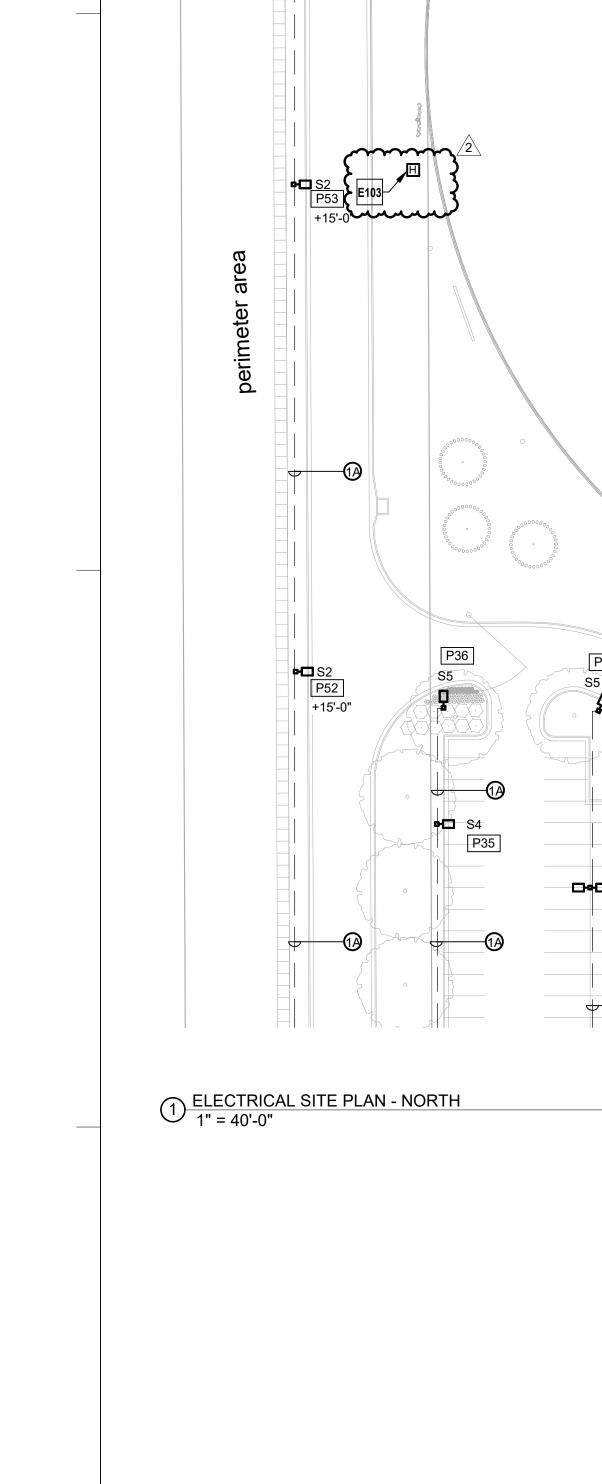
PACKAGE 3 - BUILDING &

ADDENDUM 002

10/08/20 REVISIONS

PR 004

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI



/---- (1) 2" CONDÚIT

E98 WP/WR L1S EN

(2) 1" CONDUIT FOR SCOREBOARD POWER

PRIOR TO CONDUIT INSTALL

COORDINATE FINAL SCOREBOARD LOCATION

TO MONUMENT SIGNAGE

P64 SP **₽□**

(4) 3/4" CONDUIT FOR PITCHING MACHINE POWER

TO MINIMIZE VOLTAGE DROP.

(TYP OF Z1 FIXTURES)

RE: PANEL H1S SCHEDULE FOR CIRCUITING INFORMATION. Z1 LIGHTING CIRCUIT ROUTING SHALL FOLLOW SPORTS LIGHTING. Z1 LIGHT FIXTURES SHALL BE CONNECTED IN SERIES IN ORDER

CONTRACTOR SHALL VERIFY ROUTING AND VOLTAGE DROP

- (1) 1-1/4" C FOR LOW VOLTAGE

MEETS/EXCEEDS SPORT LIGHTING REQUIREMENTS. CIRCUIT ROUTING NOT SHOWN FOR PLAN CLARITY.

CONVERTER AT MONUMENT SIGN. COORDINATE

REQUIREMENTS WITH SIGN MANUFACTURER.



	lden	tification		Conduit	Conductor	No.	Wire	N/ 16	DI DI	Circuit	Power	Circuit	Branch	Cumulative
PNL-CKT			Source Pole	Туре	Material	of	Size	Voltage	Phase	Length	Factor	Load	Voltage Drop	Voltage Drop
	Pole	Fixture		P or S	CU or AL	Sets	(Phase)			(Feet)	(PF)	(Amps)	(Volts)	(%)
2H1C-12	P1	To S5	-	Р	CU	1	8	277	1	200	0.95	8.538	2.586	0.934%
2H1C-12	P2	To S4-2	P1	Р	CU	1	8	277	1	80	0.95	2.732	0.331	1.053%
2H1C-12	P3	To S4-2	P2	Р	CU	1	8	277	1	90	0.95	2.049	0.279	1.154%
2H1C-12	P4	To S4-2	P3	Р	CU	1	8	277	1	105	0.95	1.366	0.217	1.232%
2H1C-12	P5	To S4-2	P4	P	CU	1	8	277	1	80	0.95	0.683	0.083	1.262%
	P6	To S5	P1	P	CU	1	8	277	1	70	0.95	2.732	0.290	1.038%
2H1C-12						<u> </u>			·					
2H1C-12	P7	To S4-2	P6	Р	CU	1	8	277	1	140	0.95	2.391	0.507	1.221%
2H1C-12	P8	To S4-2	P7	Р	CU	1	8	277	1	120	0.95	1.708	0.310	1.333%
2H1C-12	P9	To S5	P8	Р	CU	1	8	277	1	140	0.95	1.025	0.217	1.412%
2H1C-12	P10	To S3	P9	Р	CU	1	8	277	1	75	0.95	0.683	0.078	1.440%
2H1C-12	P11	To S3	P10	Р	CU	1	8	277	1	85	0.95	0.342	0.044	1.455%
2H1C-12	P12	To S5	P6	P	CU	1	8	277	1	60	0.95	2.732	0.248	1.128%
						<u> </u>			·					
2H1C-12	P13	To S4-2	P12	P	CU	1	8	277	1	80	0.95	2.391	0.290	1.232%
2H1C-12	P14	To S4-2	P13	Р	CU	1	8	277	1	130	0.95	1.708	0.336	1.354%
2H1C-12	P15	To S4-2	P14	Р	CU	1	8	277	1	130	0.95	1.025	0.202	1.427%
2H1C-12	P16	To S5	P15	Р	CU	1	8	277	1	100	0.95	0.342	0.052	1.445%
2H1C-14	P17	To S5	-	Р	CU	1	8	277	1	395	0.95	9.221	5.516	1.995%
2H1C-14	P18	To S4-2	P17	Р	CU	1	8	277	1	145	0.95	2.391	0.525	2.185%
2H1C-14	P19	To S4-2	P18	P	CU	1	8	277	1	120	0.95	1.708	0.310	2.297%
			P19	•	CU	1	8	277	1	135	0.95	1.025	0.209	2.372%
2H1C-14	P20	To S4-2		Р		<u> </u>			·					
2H1C-14	P21	To S5	P20	Р	CU	1	8	277	1	85	0.95	0.342	0.044	2.388%
2H1C-14	P22	To S5	P17	Р	CU	1	8	277	1	65	0.95	3.415	0.336	2.116%
2H1C-14	P23	To S4-2	P22	Р	CU	1	8	277	1	80	0.95	3.074	0.372	2.251%
2H1C-14	P24	To S4-2	P23	Р	CU	1	8	277	1	125	0.95	2.391	0.453	2.414%
2H1C-14	P25	To S4-2	P24	Р	CU	1	8	277	1	125	0.95	1.708	0.323	2.531%
2H1C-14	P26	To S4-2	P25	P	CU	1	8	277	1	135	0.95	1.708	0.323	2.607%
						<u> </u>			·					
2H1C-14	P27	To S5	P26	Р	CU	1	8	277	1	75 	0.95	0.342	0.039	2.621%
2H1C-14	P28	To S5	P22	Р	CU	1	8	277	1	55	0.95	3.074	0.256	2.209%
2H1C-14	P29	To S5	P28	Р	CU	1	8	277	1	95	0.95	2.732	0.393	2.351%
2H1C-14	P30	To S5	P29	Р	CU	1	8	277	1	65	0.95	2.391	0.235	2.436%
2H1C-14	P31	To S5	P30	Р	CU	1	8	277	1	65	0.95	2.049	0.202	2.509%
2H1C-14	P32	To S5	P31	Р	CU	1	8	277	1	65	0.95	1.708	0.168	2.569%
2H1C-14	P33	To S5	P32	P	CU	1	8	277	1	65	0.95	1.366	0.134	2.618%
				P		1			1		-			
2H1C-14	P34	To S5	P33	-	CU	<u>'</u>	8	277	·	65	0.95	1.025	0.101	2.654%
2H1C-14	P35	To S5	P34	Р	CU	1	8	277	1	95	0.95	0.683	0.098	2.690%
2H1C-14	P36	To S5	P35	Р	CU	1	8	277	1	50	0.95	0.342	0.026	2.699%
1H1E-33	P37	To S3	-	Р	CU	1	8	277	1	125	0.95	4.781	0.905	0.330%
1H1E-33	P38	To S3	P37	Р	CU	1	8	277	1	100	0.95	1.025	0.155	0.387%
1H1E-33	P39	To S2	P38	P	CU	1	8	277	1	140	0.95	0.683	0.145	0.439%
				-										
1H1E-33	P40	To S2	P39	P	CU	1	8	277	1	125	0.95	0.342	0.065	0.462%
1H1E-33	P41	To S2	P37	Р	CU	1	8	277	1	145	0.95	0.683	0.150	0.385%
1H1E-33	P42	To S2	P41	Р	CU	1	8	277	1	125	0.95	0.342	0.065	0.408%
1H1E-33	P43	To S4-2	P37	Р	CU	1	8	277	1	80	0.95	2.732	0.331	0.450%
1H1E-33	P44	To S4-2	P43	Р	CU	1	8	277	1	70	0.95	2.049	0.217	0.528%
1H1E-33	P45	To S4-2	P44	Р	CU	1	8	277	1	70	0.95	1.366	0.145	0.581%
	P46	To S4-2	P45	P	CU	1	8	277	1	70	0.95	0.683	0.072	0.607%
1H1E-33	P40	10 54-2	P45	Р	CO		0	211	I	70	0.95	0.003	0.072	0.007%
2H1C-16	P47	To S2	-	Р	CU	1	8	277	1	605	0.95	3.415	3.129	1.133%
2H1C-16	P48	To S2	P47	Р	CU	1	8	277	1	220	0.95	1.025	0.341	1.257%
2H1C-16	P49	To S2	P48	Р	CU	1	8	277	1	215	0.95	0.683	0.222	1.337%
2H1C-16	P50	To S2	P49	Р	CU	1	8	277	1	235	0.95	0.342	0.122	1.381%
2H1C-16	P51	To S2	P47	P	CU	1	8	277	1	280	0.95	2.049	0.869	1.447%
						<u> </u>			-					
2H1C-16	P52	To S2	P51	P	CU	1	8	277	1	300	0.95	1.708	0.776	1.727%
2H1C-16	P53	To S2	P52	Р	CU	1	8	277	1	205	0.95	1.366	0.424	1.880%
2H1C-16	P54	To S2	P53	Р	CU	1	8	277	1	165	0.95	1.025	0.256	1.973%
2H1C-16	P55	To S2	P54	Р	CU	1	8	277	1	200	0.95	0.683	0.207	2.047%
2H1C-16	P56	To S2	P55	Р	CU	1	8	277	1	150	0.95	0.342	0.078	2.075%
													+	
2H1C-18	P57	To SP	_	Р	CU	1	8	277	1	215	0.95	1.894	0.604	0.222%
			DE7	P	CU	1			1		-			0.240%
2H1C-18	P58	To SP	P57	-		<u>'</u>	8	277		80	0.95	0.421	0.050	
2H1C-18	P59	To SP	P58	Р	CU	1	8	277	1	620	0.95	0.210	0.193	0.309%
2H1C-18	P60	To SP	P57	Р	CU	1	8	277	1	80	0.95	1.263	0.150	0.276%
2H1C-18	P61	To SP	P60	Р	CU	1	8	277	1	110	0.95	1.052	0.172	0.338%
2H1C-18	P62	To SP	P61	Р	CU	1	8	277	1	130	0.95	0.842	0.162	0.396%
2H1C-18	P63	To SP	P62	P	CU	1	8	277	1	390	0.95	0.631	0.365	0.528%
2H1C-18	P64	To SP	P63	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.546%
				•		1		211	1					
2H1C-18	~~P65~	~~ Ĭ &Ĕ~	mega-	سچّب	miles		ٮؠڽٮ	~~~~	مخب	~~ ⁸⁵ ~~	295	~0310~	~~0.027~~	0.555%
2H1C-18	P65A	To SP	P65	P	CU	1	8	277	1	80	0.95	0.421	0.050	0.574%
2H1C-18	P65B	To SP	P65A	Р	CU	1	8	277	1	85	0.95	0.631	0.080	0.602%
~~~	www	mm	mm	ww	W.	w	mm	mm	mm	www	mm	mm	mm	mm
2H1A-10	P66	To S2	-	Р	CU	1	8	277	1	1	0.95	2.049	0.003	0.005%
	P67	To S2	P66	P	CU	1	8	277	1	205	0.95	1.708	0.519	0.192%
				-		'			·					
2H1A-10	P68	To S2	P67	P	CU	1	8	277	1	205	0.95	1.366	0.415	0.342%
2H1A-10 2H1A-10	P69	To S2	P68	Р	CU	1	8	277	1	175	0.95	1.025	0.266	0.438%
2H1A-10 2H1A-10 2H1A-10		To S2	P69	Р	CU	1	8	277	1	180	0.95	0.683	0.182	0.504%
2H1A-10 2H1A-10	P70			Ь	CU	1	8	277	1	245	0.95	0.342	0.124	0.548%
2H1A-10 2H1A-10 2H1A-10	P70 P71	To S2	P70	Р								1	. '	l
2H1A-10 2H1A-10 2H1A-10 2H1A-10		To S2	P70	Р										
2H1A-10 2H1A-10 2H1A-10 2H1A-10 2H1A-10	P71					1	Ω		1	200	0.05	0.375	0.111	0.0440/
2H1A-10 2H1A-10 2H1A-10 2H1A-10		To S2	P70 -	P	CU	1	8	277	1	200	0.95	0.375	0.111	0.044%
2H1A-10 2H1A-10 2H1A-10 2H1A-10 2H1A-10	P71					1	8		1	200	0.95	0.375	0.111	0.044%

VOLTAGE DROP CALCULATIONS - SITE LIGHTING

Circuit Power Circuit Branch Cumulative

Conduit Conductor No. Wire

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILING MOUNTED
W16,W16E	VERTICAL WAL MOUNTING
10/10/	10' 7"

POLE/MOUNTING HEIGHTS

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

ELECTRCAL SHEET NOTES:

- = SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.
 - COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND

- # INDICATES NUMBER OF CIRCUITS IN A CONDUIT _ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION
- ① 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
 ② (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.
- ② 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

ELECTRICAL PLAN NOTES:

E100 FLAG POLE SPOT LIGHTING TO BE MOUNTED IN
LANDSCAPING ON TOP OF IN-GRADE ELECTRICAL JUNCTION
BOX, COORDINATE INSTALLATION REQUIREMENTS WITH
MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT
LOCATION OF FLAGPOLES AND LOCATION OF WITH
ARCHITECTURAL AND LANDSCAPING PLANS PRIOR TO

BEGINNING ANX WORK

E102 SOUTHERN BASEBALL/SOFTBALL FIELD(S)SPORTS LIGHTING
POLES HAVE BEEN REMOVED FROM PROJECT SCOPE.
CONTRACTOR TO PROVIDE PROVISIONS FOR FUTURE
SPORTS LIGHTING POLES AT SOUTHERN

BASEBALL/SOFTBALL FIELD(S). PROVIDE (1) HAND HOLE, (1)
1" CONDUIT WITH PULL STRING AND (1) 3/4" CONDUIT WITH
PULL STRING (FOR FUTURE POLE MOUNTED SECURITY
LIGHTING) PER FUTURE SPORTS LIGHTING POLE LOCATION.
CONDUITS TO BE ROUTED TO CONCESSION STAND AND
STUBBED UP AND CAPPED NEAR CONDUITS FOR SPORTS
LIGHTING POLES THAT ARE IN SCOPE.

E103 SOUTHERN BASEBALL/SOFTBALL FIELD(S)SPORTS LIGHTING
POLES HAVE BEEN REMOVED FROM PROJECT SCOPE.
CONTRACTOR TO PROVIDE PROVISIONS FOR FUTURE
SPORTS LIGHTING POLES AT SOUTHERN
BASEBALL/SOFTBALL FIELD(S). PROVIDE (1) HAND HOLE
AND (1) 1" CONDUIT WITH PULL STRING PER FUTURE
SPORTS LIGHTING POLE LOCATION. CONDUITS TO BE
ROUTED TO CONCESSION STAND AND STUBBED UP AND
CAPPED NEAR CONDUITS FOR SPORTS LIGHTING POLES

THAT ARE IN SCOPE.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/26/2021

© DLR Group
@2020, DLR Group, Inc., a Missouri corporation,
ALL RIGHTS RESERVED
Missouri State Certificate of Authority #000939

CURTIS A. OLDS LICENSE # PE-2018036640

ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950005054
MO. CORPORATE NO: E-556D

E'S SUMMIT MIDDLE SCHOOL #

PACKAGE 3 - BUILDING & SITE

10/08/20
REVISIONS

1 ADDENDUM 002 10/19/2

PR 004

13-20102-00 ELECTRICAL SITE PLAN - AREA 2

E1.02

PAN	NELBOARD: H1S (NEW)					FAULT (RE: ONE	-LINE DIAGRAM					EQUIPMENT GR	OUND BUS
	MPS: 600A SIZE/TYPE: 600A M.C.B.	WAREHOU SERVICE	USE SQUARE FO	OOTAC	GE: 1	AIC RAT	ING:	FCA +10	% MINIMUM SSIONS/ATHLETIC	cs					
	S/PHASE: 480Y/277 V 3P/4W LIED BY: UTILITY					MOUNT LOCATION		SURFAC ELECTRI	E CAL S101					SERVICE ENTRAN	
CKT	DESCRIPTION		TES WIRE	BKR	P PI	HASE	PHA		PHASE			WIRE NOTES	LOAD	LINE-SIDE LUGS: ME DESCRIPTION	СКТ
NO. 1 3	POLE SA1	TYPE	SIZE	AMP 20	1295	A 1930	1295	1930	C	3	AMP 20	SIZE	TYPE	POLE SA5 (FUTURE)	NO. 2
5 7	POLE SAT	L	50	20	1295	1930	1295	1930	1295 1930	-	20	50	- {	POLE SAS (FUTURE)	6 8
9	POLE SA2	L	SC	20	3		1295	1930	1295 1930	3	20	SC	L {	POLE SA6 (FUTURE)	10
13 15 17	POLE SB1	L	sc	20	3 2358	3358	2358	3358	2358 3358	3	25	sc	L {	POLE SB5 (FUTURE)	14 16 18
19 21 23	POLE SB2	L	SC	20	3 2358	3358	2358	3358	2358 3358	3	25	SC	L \	POLE SB6 (FUTURE)	20 22 24
25 27 29	POLE SA3	L	sc	20	3 1930	2520	1930	2520	1930 2520	3	20	SC	L }	POLE SC3 (FUTURE)	26 28 30
31 33	POLE SA4	L	sc	20	3 1930	2520	1930	2520		3	20	sc	L S	POLE SC4 (FUTURE)	32 34
35 37 39	POLE SB3	L	sc	25	3883	1930	3883	1930	1930 2520	3	20	sc	}	POLE SA7 (FUTURE)	36 38 40
41 43		<u> </u>			4407	1930	3003	1930	3883 1930		20		-}	•	42 44
45 47	POLE SB4	L	SC	30	3	0050	4407	1930	4407 1930	3	20	SC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	POLE SA8 (FUTURE)) 46) 48)
49 51 53	POLE SC1	L	sc	25	3 3568	3358	3568	3358	3568 3358	3	25	sc	L }	POLE SB7 (FUTURE)	50 52 54
55 57 59	POLE SC2	L	SC	25	3 3568	3358	3568	3358	3568 3358	3	25	sc	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	POLE SB8 (FUTURE)) 56) 58) 60
61 63	SPARE			20	3	2520	0	2520		3	20	SC	_ }	POLE SC5 (FUTURE)	62 64
65 67 69	SPARE			25	3 0	2520	0	2520	0 2520	3	20	SC	}	POLE SC6 (FUTURE)) 66) 68 1 70
71 73					0	607			0 2520)			-}	,	72 74
75 77 79	SPARE EQUIPPED SPACE			30	1 0	0	0	607	0 607	3	20	8	Z \	Z1 SECURITY FIXTURES POLES: SA1 thru SA4, SB3, SB4	76 78 80
81	EQUIPPED SPACE EQUIPPED SPACE				1 1		0	0	0 0	1				EQUIPPED SPACE EQUIPPED SPACE	82 84
85 87	LTS - CONCESSIONS LTS - CONCESSION EXTERIOR	L Z L	12 12	20 20	1 1830 1	0	489	0		1	20			SPARE SPARE	86 88
89 91 93	EUH-1	н	12	15	3 1667	0	1667	0	1667 0	1 1	20 20 20			SPARE SPARE SPARE	90 92 94
95 97	EUH-2 EUH-3A	H	12 12	15 15	1 3000	0	1007		3000 0	1	20			SPARE SPARE	96 98
99 101	EUH-3B EUH-4	H	12 12	15 15	1		3000	0	3000 0	1	20 20			SPARE SPARE	100 102
103 105 107	EUH-5	н	12	15	3 2333	0	2333	0	2333 0	1	20 20 20			SPARE SPARE SPARE	104 106 108
107	EUH-6	Н	12	15	1 3000	0	2333	0	2333 0	1	20 20			SPARE SPARE	110
113 115	EUH-7	H	12	15	3 2333	0			2333 0	1	20			SPARE SPARE	114 116
117	EUH-8	H	12	15			3000	0	2333 0	1	20			SPARE SPARE	118 120
121 123 125	EUH-9 EUH-10	H	12	15 15	3 2333	0	2333	0	3000 0	1 1	20 20 20			SPARE SPARE SPARE	122 124 126
127 129	WH11	U	10	30	6000	0	6000	0]	1	20			SPARE SPARE	128 130
131 133	SPARE			20	1 0	0			6000 0	1	20 20			SPARE SPARE	132 134
135 137 139	SPARE SPARE SPARE			20 20 20	1 0	0	0	0	0 0	1	20 20 20			SPARE SPARE SPARE	136 138 140
141	SPARE SPARE			20 20 20	1 1	0	0	0	0 0	1 1	20 20			SPARE SPARE	140 142 144
145 147	SPARE SPARE			20 20	1 0	0	0	0		1	20 20			SPARE SPARE	146 148
149 151	EQUIPPED SPACE EQUIPPED SPACE				1 0	0			0 0	1	20 20			SPARE SPARE	150 152
153 155 157	EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE				1 1 1 0	2933	0	0	0 0	1	20			SPARE SPARE	154 156 158
159 161	EQUIPPED SPACE EQUIPPED SPACE				1		0	2933	0 2933	3	20	10	Z	IRRIGIATION PUMP (7.5HP, 600')	160 162
163 165 167	EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE				1 0	9834	0	8674	0 1400		125	OL		TX-L1S	164 166 168
101	1 240 1 20 0. 7.02		OTAL LOAD OTAL AMPS:	, ,	936	697 VA 40 A	91196		99041 VA 359 A		I		1	1	100
LOAD	TYPE CONNECTE	D DEMAN	ND NEC	DEMA		LBOARD N) JJ8 A					PANELBOARD TOTALS	
EXIST	LOAD (E) 0 VA	FACTO 100%	OR 6	0 VA											283537 VA
HEAT	ING (C) 2288 VA ING (H) 47000 VA ING (L) (PER NEC-220) 176836 VA	0% 100% 125%	6 47	0 VA 000 V 1045 V										TOTAL NEC LOAD	319986 VA
RECE	PTACLES (R) 22560 VA ORS (M) 258 VA		16	1045 V 280 V 258 VA	4									TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT	341 A 385 A
SUPP	LEMENTAL HEAT (U) 18000 VA EQUIP (Z) 12365 VA	100% 100%	6 18 6 12	365 V	4										33371
SIGN	IGERATION (F) 0 VA DISPLAY (D) 2400 VA HEN (K) 1000 VA	100% 125% 100%	6 30	0 VA 000 VA 000 VA											
LARG	HEN (K) 1000 VA EST MOTOR 830 VA V WINDOW (W) 0 VA	100% 125% 125%	6 10	000 VA 038 VA 0 VA											
	K LIGHTING 0 VA	100%		0 VA											

IN S LTS	MPS: 225A SIZE/TYPE: 225A M.C.B. //PHASE: 208Y/120 V 3P/4W JED BY: H1S VIA TX-L1S	NEW)				AIC F AIC F SER\ MOU	T CURRENT RATED: RATING: /ES: NTING: ATION:	FULLY F FCA +10 CONCE SURFA0	RATED)% MINIMU SSIONS/DU	М						GROUND BUS
Γ	DESCRIPTION	LOAI TYPE			BKR P	PHASE A	PI	HASE B		ASE		WIRE SIZE		LOAD TYPE	LINE-SIDE LUGS: DESCRIPTION	MECHANICAL CKT NO.
Ī	RCPT - RESTROOMS RCPT - LOCKER ROOMS	R R	_	12 12	20 1 20 1	540 0	540	0			1 20 1 20	SIZL			SPARE SPARE	2 4
	RCPT - LOCKER RESTROO RCPT - CONV. OFFICE	R		12	20 1	540 0			720	0	1 20				SPARE SPARE	6 8
İ	RCPT - ICE MAKER RCPT - CONV. ELECTRICAL RCPT - CONV. MECHANICA			12 12 12	20 1 20 1 20 1	180 0	1000	0	180	0	1 20 1 20 1 20				SPARE SPARE SPARE	10 12 14
1	RCPT - OFFICE RCPT CONV. CONCESSION	IS R		12 12	20 1 20 1		720	0	720	0	1 20 1 20				SPARE SPARE	16 18
	RCPT - EXTERIOR RCPT - STORAGE RCPT - CONCESSIONS	R R R		12 12 12		360 0	360	0	360	0	1 20 1 20 1 20				SPARE SPARE SPARE	20 22 24
	RCPT - CONCESSIONS RCPT - CONCESSIONS	R		12	20 1	360 0	360	0	300	0	1 20				SPARE SPARE	26 28
	RCPT - CONCESSIONS RCPT - CONCESSIONS	R R		12	20 1	360 0			360	0	1 20				SPARE SPARE	30 32
	PWR-SECURITY PANEL MISC EQUIP PWR - DOOR HARDWARE (Z (S101/102/108) Z		12	20 1	150 0	400	0	100	0	1 20 1 20 1 20				SPARE SPARE SPARE	34 36 38
F	PWR - DOOR HARDWARE (PWR - DOOR HARDWARE (S102A/S108A) Z S111A/S112) Z		12 12	20 1 20 1		100	0	100	0	1 20 1 20				SPARE SPARE	40 42
R	RCPT - EXT EWC RCPT - CHARGERS (N) RCPT - CHARGERS (S)	R R R		12 12 12	20 1 20 1 20 1	360 0	360	0	360	0	1 20 1 20 1 20				SPARE SPARE SPARE	44 46 48
Ī	CU-14/CR-14	C		12	20 2	1144 0	1144	0	300	U	1 20 1 20 1 20				SPARE SPARE	50 52
İ	EF-23 EF-24	M M		12	15 1	100 0			830	0	1 20 1 20				SPARE SPARE	54 56
	TF-2 RP6/TS1 RCPT - IRRIGATION CONTR	M M ROLLER R		12 12 12		180 254	100	0	58	0	1 20				SPARE SPARE	58 60 62
+	PWR-MOTORIZED DAMPER SPARE			12	20 1 20 1		50	360	0	1800	3 60	OL		LR	LC1	64 66
T	SPARE SPARE	_			20 1 20 1	0 328	0	1860			3 60	OL		LR	LC2	68 70
Ī	SPARE MONUMENT SIGNAGE (WE FIBER CONVERTER (SIGN)			6	20 1 20 1 20 1	1200 466	100	360	0	3300	3 60	OL		LR	LC3	72 74 76
	MONUMENT SIGNAGE (EAS FIBER CONVERTER (SIGN I	ST) D EAST) Z		6 10	20 1 20 1	100 254	4	1	1200	1620						78 80
	MUSCO LIGHTING - CONTR MUSCO LIGHTING - COMMI			12 12	20 1 20 1		500	360	500	1800	3 60	OL		LR	LC4	82 84
			TOTAL		` ,	9834 VA 83 A		74 VA 72 A		7 VA 8 A						
-	ГҮРЕ		DEMAND			PANELBOAR									PANELBOARD TOTALS	
	NG LOAD (E) NG (C)	0 VA 2288 VA	FACTOR 100% 100%		0 VA 288 VA										TOTAL CONNECTED LOAD	32116 VA
ATII HTI	NG (H) NG (L)	0 VA 1080 VA	0% 125%	13	0 VA 350 VA										TOTAL CONNECTED CURRENT	
EF TO	PTACLES (R) RS (M)	22560 VA 258 VA	72% 100%	16	280 VA 58 VA										TOTAL CONNECTED CURRENT TOTAL NEC DEMAND CURRENT	
CE	EMENTAL HEAT (U) EQUIP (Z) GERATION (F)	0 VA 1700 VA 0 VA	100% 100% 100%	17	0 VA 700 VA 0 VA											
N/E	DISPLAY (D) ÉEN (K)	2400 VA 1000 VA	125% 100%	30	000 VA 000 VA											
	ST MOTOR WINDOW (W)	830 VA 0 VA	125% 125%		038 VA 0 VA	_										
		Λ \ / Λ	100%		Λ \											
	(LIGHTING)	0 VA	100%		0 VA											
ACH AN S AI N S		(NEW)	100%		0 VA	AIC F AIC F SER\ MOU	LT CURRENT RATED: RATING: VES: NTING: ATION:	FULLY F FCA +10	RATED)% MINIMU GE BUILDIN	М					EQUIPMENT (
N AI S	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W	(NEW)	D NOTES	WIRE	BKR P	AIC F AIC F SER\ MOU	RATED: RATING: VES: NTING: ATION:	FULLY F FCA +10 STORA0 SURFA0 HASE	RATED 0% MINIMU GE BUILDIN CE PH	M IG ASE			NOTES		EQUIPMENT O LINE-SIDE LUGS: DESCRIPTION	MECHANICAL CKT
N AI S SPL	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. MPHASE: 208Y/120 V 3P/4W MED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR P AMP	AIC F AIC F SER\ MOU LOCA	RATED: RATING: VES: NTING: ATION:	FULLY F FCA +10 STORA0 SURFA0 HASE B	RATED 0% MINIMU GE BUILDIN CE PH	M IG	1 20	SIZE 6		TYPE R	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR	MECHANICAL CKT NO.
N S S L	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE SPARE	(NEW) 1T LOAI TYPE	D NOTES	WIRE	BKR P AMP 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SER\ MOU LOCA PHASE A	RATED: RATING: VES: NTING: ATION: PI 0 360	FULLY F FCA +10 STORA0 SURFA0 HASE	RATED 0% MINIMU GE BUILDIN CE PH	M IG ASE	AMP 1 20 1 20 1 20 1 20 1 20	SIZE		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE SPARE SPARE	MECHANICAL CKT NO. R 2 4 6 8
	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE SPARE SPARE SPARE SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR P AMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360	RATED: RATING: VES: NTING: ATION: PI 360	FULLY F FCA +10 STORA0 SURFA0 HASE B	RATED 0% MINIMU GE BUILDIN CE PH	M G ASE	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE SPARE SPARE SPARE SPARE SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12
N AI S	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR P AMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360	RATED: RATING: VES: NTING: ATION: PI 360	FULLY F FCA +10 STORAG SURFAG HASE B	RATED 0% MINIMU GE BUILDIN CE PH	M G ASE C	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	MECHANICAL CKT NO. R 2 4 6 8 10 12 14 16
AL SSL	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR P AMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360	RATED: RATING: VES: NTING: ATION: PI 0 360	FULLY F FCA +10 STORAG SURFAG HASE B	RATED 0% MINIMU GE BUILDIN CE PH 0	ASE C	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22
	ELBOARD: 1L1T MPS: 100A SIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR P AMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0	RATED: RATING: VES: NTING: ATION: PI 0 0 0	FULLY FFCA +10 STORAG SURFAG HASE B 1000 0	RATED 0% MINIMU GE BUILDIN CE PH 0	ASE C	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26
N	ELBOARD: 1L1T MPS: 100A SIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0	RATED: RATING: VES: NTING: ATION: PI 0 0 0	FULLY FFCA +10 STORAG SURFAG HASE B 1000	RATED 0% MINIMU GE BUILDIN CE PH 0 0	ASE O O	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE	MECHANICAL CKT NO. R 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
NAISSES	ELBOARD: 1L1T MPS: 100A SIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0	RATED: RATING: VES: NTING: ATION: PI 0 0 0	FULLY FFCA +10 STORAG SURFAG HASE B 1000 0	RATED 0% MINIMU GE BUILDIN DE 0 0 0 0	ASE C 0	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34
ALLES	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0	RATED: RATING: VES: NTING: ATION: PI 0	FULLY FFCA +10 STORAG SURFAG HASE B 1000 0 0	RATED 0% MINIMU GE BUILDIN DE 0 0 0 0 0	ASE O O O	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40
	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0	RATED: RATING: VES: NTING: ATION: PI 0 0 0 0	FULLY F FCA +10 STORAG SURFAG HASE B 1000 0 0 0 0	RATED 0% MINIMU GE BUILDIN DE O O O O O O O O O O O O O	M G ASE C O O O O O O O O O	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLLR SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38
AAAASSSPL	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L	D NOTES	WIRE SIZE 12 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FFCA +10 STORAG SURFAG HASE B 1000 0 0	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O O	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40
A A I S T S P L	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L R	TOTAL TOTAL DEMAND	WIRE SIZE 12 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 683 VA	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40
AN S AI S PPL	ELBOARD: 1L1T MPS: 100A SIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	(NEW) 1T LOAI TYPE L R	D NOTES TOTAL TOTAL	WIRE SIZE 12 12 12 LOAD AMPS:	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 0 0 683 VA 7 A	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2
AN S AI IN S LTS PPL T	ELBOARD: 1L1T MPS: 100A GIZE/TYPE: 100A M.C.B. //PHASE: 208Y/120 V 3P/4W JED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE	CONNECTED LOAD O VA O VA 323 VA	TOTAL TOTAL TOTAL TOTAL TOTAL 100% 0% 100% 125%	WIRE SIZE 12 12 12 LOAD AMPS:	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 0 0 683 VA 7 A	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 2043 VA 2124 VA
AN S AI S AI S AI S AI S AI S AI S AI S	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W JED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE CONNECTED LOAD O VA O VA O VA O VA O VA O VA O VA O	TOTAL TOTAL TOTAL TOTAL 100% 0% 100% 125% 100% 100%	WIRE SIZE 12 12 12 LOAD AMPS: NEC	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 0 0 683 VA 7 A	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE	MECHANICAL CKT NO. 2	
AN SAIN SEPPLINE	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE CONNECTED	TOTAL TOTAL TOTAL TOTAL TOTAL 100% 100% 100% 100% 100% 100% 100% 100	WIRE SIZE 12 12 12 LOAD AMPS:	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 0 0 683 VA 7 A	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL CONNECTED CURRENT	MECHANICAL CKT NO. 2	
N AISSPL TILITING	ELBOARD: 1L1T MPS: 100A BIZE/TYPE: 100A M.C.B. /PHASE: 208Y/120 V 3P/4W IED BY: SWBD-N1 VIA TX-1L DESCRIPTION LTG - STORAGE BUILDING RCPT - STORAGE AREA T SPARE CONNECTED LOAD O VA O VA O VA O VA O VA O VA O VA O	TOTAL TOTAL TOTAL TOTAL TOTAL 100% 0% 100% 100% 100% 100% 100%	WIRE SIZE 12 12 12	BKR PAMP 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1	AIC F AIC F SERV MOU LOCA PHASE A 323 360 0 0 0 0 0 0 0 0 0 0 683 VA 7 A	RATED: RATING: VES: NTING: ATION: PI 0 360 0 0 0 13	FULLY FECA +10 STORAG SURFACE HASE B 1000 0 0 0 0 0 0 60 VA	RATED 0% MINIMU GE BUILDIN CE PH 0 0 0 0 0 0 0 0 0 0 0 0 0	ASE O O O VA	AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 2	SIZE 6		TYPE R Z	LINE-SIDE LUGS: DESCRIPTION RCPT - SCOREBOARD CONTRLER SCOREBOARD SPARE TOTAL CONNECTED LOAD TOTAL NEC LOAD TOTAL CONNECTED CURRENT	MECHANICAL CKT NO. 2	

PANELBOARD SCHEDULE NOTES LEGEND:

AF = ARC FAULT CIRCUIT INTERRUPTER. C# = CIRCUIT VIA LIGHTING CONTACTOR #.
CL = CIRCUIT VIA CURRENT LIMITING DEVICE. EM = EMERGENCY LIGHTING HANDLE-ON CLAMP. ETR = EXISTING TO REMAIN

A = RED/HANDLE-ON CLAMP.F = GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). GFEP = GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT# = PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.

DENOTES PHASES TO BE TIED.
IG = ISOLATED GROUND CIRCUIT. L# = LIGHTING CONTROL SCHEME NUMBER. LCK = HANDLE PADLOCKABLE-OFF DEVICE.

O = HANDLE-ON CLAMP. I = PROVIDE NEUTRAL WITH 208V OR 480V, 1-PH OR 3-PH CIRCUIT. NB = PROVIDE NEW CIRCUIT BREAKER.
O/OL = REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM. PS = POWER-SWITCHING CIRCUIT BREAKER. PSE = EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.

C = REFER TO VOLTAGE DROP CALCULATION SCHEDULE FOR MINIMUM WIRE SIZE. ST = SHUNT TRIP CIRCUIT BREAKER. D = BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP.

ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.

CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS 10/13/20 10/19/20 11/11/20 1/18/21 2 ADDENDUM 002 3 PR 001 4 PR 004

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI 01/26/2021

PANEL H1S

13-20102-00 ELECTRICAL

SCHEDULES PANEL L1S

E6.12

		E	XTERIOR	LIGHT	FIXT	URE	SCHEDULE
TYPE	MANUFACTURER / MODEL #	ALTERNATES	LAMPING /	DIMMING	VOLTAGE	INPUT	
	WANTO ACTORERY MODEL #	ALIENVALES	LIGHT SOURCE	TYPE	VOLINGE	VA	DESCRIPTION NOTES
SP	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	53	SINGLE-HEAD, DARK-SKY-FRIENDLY PEDESTRIAN POLE LIGHT WITH TYPE 2 DISTRIBUTION, MOUNTED AT 12.5'.
	OSQ-DA-BZ + OSQ-A-NM-2ME-Z-40K-UH-BZ		70CRI				
			6,896 LUMENS				
S2	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	83	SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 2 DISTRIBUTION, MOUNTED AT 15' OR 20'
	OSQ-DA-BZ + OSQ-A-NM-2ME-B-40K-UH-BZ	McGRAW EDISON GALLEON SERIES	70CRI				
			11,424 LUMENS				
S3	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	83	SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 3 DISTRIBUTION, MOUNTED AT 15' OR 20'
	OSQ-DA-BZ + OSQ-A-NM-3ME-B-40K-UH-BZ	McGRAW EDISON GALLEON SERIES	70CRI				
			11,424 LUMENS				
S4	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	83	SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 4 DISTRIBUTION, MOUNTED AT 15' OR 20'
	OSQ-DA-BZ + OSQ-A-NM-4ME-B-40K-UH-BZ	McGRAW EDISON GALLEON SERIES	70CRI				
			11,424 LUMENS				
S4-2	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	83	TWO-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 4 DISTRIBUTION, MOUNTED AT 15' OR 20'
	OSQ-DA-BZ + OSQ-A-NM-4ME-B-40K-UH-BZ	McGRAW EDISON GALLEON SERIES	70CRI				
			11,424 LUMENS				
			(PER HEAD)				
S5	CREE LIGHTING	LITHONIA LIGHTING - DSX0 LED SERIES	LED 4000K	0-10V	480V	83	SINGLE-HEAD, DARK-SKY-FRIENDLY PARKING LOT POLE LIGHT WITH TYPE 5 DISTRIBUTION, MOUNTED AT 15' OR 20'
	OSQ-DA-BZ + OSQ-A-NM-5ME-B-40K-UH-BZ	McGRAW EDISON GALLEON SERIES	70CRI				
			11,424 LUMENS				
WW	BEGA	LITON - WLP32 DEXTERO SERIES	LED 4000K	0-10V	120-277V	36	LED WALL MOUNTED LINEAR GRAZER LUMINAIRE. WET LOCATION RATED FOR PROTECTION CLASS IP 65.
	44 419-K4-BRZ	VISIONARE LIGHTING - VSC-II SERIES	70CRI				
			1,399 LUMENS				
W1	BEGA		LED 4000K	0-10V	120-277V	61	LED WALL LUMINARE WITH ASYMETRICAL LIGHT DISTRIBUTION. WET LOCATION RATED FOR PROTECTION CLASS IP 65.
	24 816-K4-BRZ		70CRI				
			6,674 LUMENS				
W1E							WITH BATTERY BACK-UP
W2	WE-EF	LITHONIA LIGHTING	LED 4000K		120-277V	55	BLACK WALL MOUNTED WET LOCATION RATED TYPE 4 DISTRIBUTION LED BACK OF HOUSE LUMINAIRE
	OLV344 LED-[R65](622-7723)-5903LM-48W-4000K-RAL9004		80CRI				
W2E	OLV344 LED-[R65](622-7723)-5903LM-48W-4000K-RAL9004-EM622-7402		5903LUMENS				WITH BATTERY BACK-UP
W8	FOCAL POINT SEEM 4	MARK ARCHITECTURAL LIGHTING	LED 4000K	0-10V	120-277V	7 VA/FT	- 4" X8' LINEAR RECESSED LED CEILING MOUNTED LUMINARE WITH SYMMETRIC LIGHT DISTRIBUTION. WET LOCATION RATED
	FSM4LWL-FL-625LF-40K-1C-UNV-LD1-*CEILING*-WH-8		80CRI				
W8E	FSM4LWL-FL-625LF-40K-1C-UNV-LD1-*CEILING*-EM-WH-8		625 LUMENS/FT				WITH BATTERY BACK UP
W16	KELVIX		LED 4000K		24V/ 277V	5 VA/FT	LED TAPE LIGHT WITH 2" BY 16' LED CHANNEL
	CHANNEL: CH-013C-16FT-FR-RC-EC		80CRI		LED		
	TAPE: DK41K-WR-24V		440 LUMENS/FT		DRIVER		
W16E	REMOTE DRIVER: 277 TO 24V						WITH BATTERY REMOTE BATTERY BACK-UP

			SPORTS	LIGH	TING	FIXT	TURE	SCHEDULE	
LE GROUP TURE TAG	QUANTITY	MANUFACTURER / MODEL #	LAMPING /	VOLTAGE	INPUT	TOTAL	TOTAL	DESCRIPTION	NOTES
TURE IAG	1	MUSCO	LIGHT SOURCE LED 5700K	480V	VA 1170	Watts	Watts	SPORTS LIGHTING	
	'	TLC-LED-1200 - MH: 60'	75 CRI	3-PHASE	1170			or order clearming	
			136,000 LUMENS						
	2	MUSCO	LED 5700K	480V	890			SPORTS LIGHTING	
		TLC-LED-900 - MH: 60'	75 CRI	3-PHASE					
SA1	1	MUSCO	89,600 LUMENS LED 5700K	480V	575	3925	4313	SPORTS LIGHTING	MUSCO TAGS A1
	'	TLC-BT-575 - MH: 16'	75 CRI	3-PHASE	0/0			or order Element	
			52,000 LUMENS						
	1	MUSCO	LED 5700K	480V	400			PUBLIC LIGHTING	
		TLC-BT-400 - MH: 50'	70 CRI	3-PHASE					
	1	MUSCO	46,500 LUMENS LED 5700K	480V	1170			SPORTS LIGHTING	
	1	TLC-LED-1200 - MH: 70'	75 CRI	3-PHASE	1170			GFORTS EIGHTING	
			136,000 LUMENS						
	2	MUSCO	LED 5700K	480V	890			SPORTS LIGHTING	
		TLC-LED-900 - MH: 60'	75 CRI	3-PHASE					
SA2	1	MILISCO	52,000 LUMENS	400\/	57E	3655	4016	SPORTS LIGHTING	MUSCO TAGS A2
	1	MUSCO TLC-BT-575 - MH: 16'	LED 5700K 70 CRI	480V 1-PHASE	575				
		. 10 5. 5. 5 1911. 10	52,000 LUMENS	. I TIAGE					
	1	CREE	LED 5700K	480V	130			PUBLIC LIGHTING	
		OSQ - MH: 30'	75 CRI	3-PHASE					
		MILIONO	16,599 LUMENS	40017	4470			ODODTO LIQUITIVO	
	4	MUSCO TLC-LED-1200 - MH: 60'	LED 5700K 75 CRI	480V 3-PHASE	1170			SPORTS LIGHTING	
		1 LC-LED-1200 - Win. 60	136,00 LUMENS	3-FHASE					
	1	MUSCO	LED 5700K	480V	575			SPORTS LIGHTING	
SA3		TLC-BT-575 - MH: 16'	75 CRI	3-PHASE		5655	6214		MUSCO TAG A3
			52,000 LUMENS						
	1	MUSCO TLC-BT-400 - MH: 50'	LED 5700K	480V	400			SPORTS LIGHTING	
		TLC-B1-400 - MH: 50	70 CRI 46,500 LUMENS	3-PHASE					
	4	MUSCO	LED 5700K	480V	1170			SPORTS LIGHTING	
		TLC-LED-1200 - MH: 60'	75 CRI	3-PHASE					
			136,00 LUMENS						
0.1.1	1	MUSCO	LED 5700K	480V	575		2000	SPORTS LIGHTING	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SA4		TLC-BT-575 - MH: 16'	75 CRI 52,000 LUMENS	3-PHASE		5515	6060		MUSCO TAG A4
	2	CREE	LED 5700K	480V	130			PUBLIC LIGHTING	
		OSQ - MH: 30'	70 CRI	1-PHASE					
			16,599 LUMENS						
	5	MUSCO	LED 5700K	480V	1170			SPORTS LIGHTING	
		TLC-LED-1200 - MH: 60'	75 CRI	3-PHASE					
SB1, SB2	1	MUSCO	136,00 LUMENS LED 5700K	480V	575	6425	7060	SPORTS LIGHTING	MUSCO TAG B1,B2
		TLC-BT-575 - MH: 16'	75 CRI	3-PHASE	0.0			or order Elements	
			52,000 LUMENS						
	7	MUSCO	LED 5700K	480V	1430			SPORTS LIGHTING	
		TLC-LED-1500 - MH: 70'	75 CRI	3-PHASE					
	1	MUSCO	160,000 LUMENS LED 5700K	480V	575			SPORTS LIGHTING	
SB3	1	TLC-BT-575 - MH: 16'	75 CRI	3-PHASE	313	10715	11775	G. GIATO EIGHTHAG	MUSCO TAGS B3
-			52,000 LUMENS						
	1	CREE	LED 5700K	480V	130			PUBLIC LIGHTING	
		OSQ - MH: 30'	70 CRI	1-PHASE					
	0	MILISCO	16,599 LUMENS	400\/	1420			SDORTS I ICHTING	
	8	MUSCO TLC-LED-1500 - MH: 70'	LED 5700K 75 CRI	480V 3-PHASE	1430			SPORTS LIGHTING	
			160,000 LUMENS						
	1	MUSCO	LED 5700K	480V	575			SPORTS LIGHTING	
SB4		TLC-BT-575 - MH: 16'	75 CRI	3-PHASE		12145	13346		MUSCO TAGS B4
	4	ODEE	52,000 LUMENS	40017	400	_		DUDUIC LIGHTING	
	1	CREE OSQ - MH: 30'	LED 5700K 70 CRI	480V 1-PHASE	130			PUBLIC LIGHTING	
		00Q - IVII I. 30	16,599 LUMENS	I-F TIASE					
	6	MUSCO	LED 5700K	480V	1430			SPORTS LIGHTING	
		TLC-LED-1500 - MH: 70'	75 CRI	3-PHASE					
SC1, SC2			160,000 LUMENS			9730	10751		MUSCO TAGS C1,C2
·, 	2	MUSCO TLC-BT-575 - MH: 16'	LED 5700K 75 CRI	480V 3-PHASE	575			SPORTS LIGHTING	000 17.02
		LLL ('-K L-5 / 5 - MH' 16'	75 CDI	1 1 DUVCE		The second secon			

REFER TO LIGHT FIXTURE SCHEDULE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

A. REFER TO LIGHT FIXTURE SCHEDULE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MUSCO LIGHTING REPRESENTATIVE:

PHONE: 844-232-6157

EMAIL: TODD.STYCH@MUSCO.COM

IULT	T-BL	JTTON SW	TITCH SCHEDULE	
			FOR ALL MULTI-BUTTON SWITCHES WITH MOR	
			REFER TO BUTTON LABEL COLUMN FOR TEX	
SWITCH	BUTTON		CONTROLLED LOAD (ZONE)	BUTTON OPERATION
LV1a	1A	ON/RAISE	a - GENERAL	50%, RAISE
LV1a	1B	OFF/LOWER	a - GENERAL	0%, LOWER
	1A	ON/RAISE	a - GENERAL	80%, RAISE
LV1b	1B	OFF/LOWER	a - GENERAL	0%, LOWER
LV	1A	ON	GENERAL ON	ON
	1B	OFF	GENERAL OFF	OFF
	1	RAISE	CURRENT ZONE	RAISE
LV3a	2	LOWER	CURRENT ZONE	LOWER
	3	ON/OFF	GENERAL	80%, 0% TOGGLE
			1	
	1	ON/RAISE	a - GENERAL	80%, RAISE
LV4a	2	OFF/LOWER	a - GENERAL	0%, LOWER
	3	ON/RAISE	b - GENERAL	80%, RAISE
	4	OFF/LOWER	b - GENERAL	0%, LOWER
	1	ON	a - ON	ON
	2	OFF	a - OFF	OFF
LV4b	3	ON	b - ON	ON
	4	OFF	b - OFF	OFF
	1			
	1A	RAISE	ALL ZONES	RAISE
	1B	LOWER	ALL ZONES	LOWER
LV5a	2	ALL ON/OFF	ALL ZONES	100%, 0% TOGGLE
	3	z15-ON/OFF z16-ON/OFF	z15 - GENERAL z16 - GENERAL	100%, 0% TOGGLE 100%, 0% TOGGLE
	5	z17-ON/OFF	z17 - GENERAL	100%, 0% TOGGLE
				,
	1A	RAISE	ALL ZONES	RAISE
	1B	LOWER	ALL ZONES	LOWER
LV5b	2	a-ON/OFF	a - GENERAL	100%, 0% TOGGLE
	3	b-ON/OFF	b - GENERAL	100%, 0% TOGGLE
	4	c-ON/OFF	c - GENERAL	100%, 0% TOGGLE
	5	d-ON/OFF	d - GENERAL	100%, 0% TOGGLE
	1A	RAISE	CURRENT ZONE	RAISE
	1B	LOWER	CURRENT ZONE	LOWER
1.1/5	2	ALL ON/OFF	a - GEN., b - GEN., c - DAYLIGHTING	100%, 0% TOGGLE
LV5c	3	a-ON/FFF	a - GENERAL	100%, 0% TOGGLE
	5	b-ON/OFF c-ON/OFF	b - GENERAL c - GENERAL	100%, 0% TOGGLE 100%, 0% TOGGLE
		0 014/011	NOTE: ZONE c DIMMING CONTROLLED BY PH	
	1			
	1	ALL ON	a - GENERAL, b - GENERAL-1, c - AV	80%
	2	ALL OFF	a - GENERAL, b - GENERAL-1, c - AV	0%
	3	GENERAL RAISE	a - GENERAL	RAISE
LV8a	4	GENERAL LOWER	a - GENERAL	LOWER
	5	GENERAL RAISE	b - GENERAL	RAISE
	6	GENERAL LOWER	b - GENERAL	LOWER
	7 8	AV RAISE AV LOWER	c - AV c - AV	RAISE LOWER
		AV LOVVLIX	U-AV	LOWLIX
	1	ALL ON	a - BOH, b - GENERAL-1, c - GENERAL	50%
	2	ALL OFF	a - BOH, b - GENERAL-1, c - GENERAL	0%
	3	GENERAL RAISE	a - BOH	RAISE
LV8b	4	GENERAL LOWER	a - BOH	LOWER
- V OIJ	5	GENERAL RAISE	b - GENERAL	RAISE
	6	GENERAL LOWER	b - GENERAL	LOWER
	7	AV RAISE	c - GENERAL	RAISE

LIGHTING CONTROL SEQUENCE OF OPERATIONS

LIGHTING CONTROL SEQUENCE OF OPERATIONS

General Note: Confirm all sensor time delays with owner and local codes prior to final programming.

1. Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output. ICC-500 shelter emergency fixtures to be equipped with a battery back-up that provides 2-hours of operation. All other emergency light fixtures shall have a battery back-up capable of 90 minutes of operation. 2. Security Lighting: Night lights, labeled "NL" in building corridors for security purposes:

3. Lighting control types: A combination of Occupancy Sensors for smaller rooms and public spaces and Networked Lighting Control Panels for general circulation 4. Networked Lighting Control Panels to be controlled via a combination of Time Switched and manual control via Interfaces provided in Reception D100A and Vestibule G11. Time Switch controls to be set to automatically switch the general circulation and public spaces on during building hours of operation and off after hours. Preliminary suggested hours of operation are 6:00 AM to 9:00 PM.

5. Occupancy sensors in front of house and back of house rooms to be set to time out as noted. 6. Electrical rooms, Mechanical rooms, Technology rooms and Janitor Rooms to be provided with line voltage switches for manual control.

B. ROOM CONTROLLER RC1

1. Manual Control: Occupant can manually control lights via local switch(es).

2. Occupancy: Occupant must manually turn on lights via low voltage. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.

C. ROOM CONTROLLER RCR 1. Manual Control: Building facilities personnel can manually override lights via local keyed switch. Switched conductors from room controller to be routed through 2. Occupancy: Lights are auto on by occupancy sensor with a line voltage keyed switch acting as a master override for lights.

3. Vacancy: After 20 minutes, all controlled loads shall turn off. D. ROOM CONTROLLER RC2

1. Manual Control: Occupant must manually control lights via local switch(es). 2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: Occupant must manually turn off lights.

E. ROOM CONTROLLER TW1

1. Manual Control: Occupant can manually control lights and dimming via local switch(es). 2. Color Tuning: Fixtures can be color tuned via manual controller 3. Occupancy: Occupant must manually turn on lights.

4. Vacancy: After 30 minutes, all controlled loads shall turn off.

F. ROOM CONTROLLER TW2 1. Manual Control: Occupant must manually control lights and dimming via local switch(es) from outside the room.

2. Color Tuning: Fixtures can be color tuned via manual controller 3. Occupancy: Occupant must manually turn on lights from outside the room. 4. Vacancy: Occupant must manually turn off lights from outside the room.

G. ROOM CONTROLLER D1A

1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 30 minutes, all controlled loads shall turn off.

H. ROOM CONTROLLER D1B

ROOM CONTROLLER D1D

1. Manual Control: Occupant can manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.

1. Manual Control: Occupant must manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: Occupant must manually turn off lights.

4. (4) local room controllers to be networked together for control of gym lights.

J. ROOM CONTROLLER D1E 1. Manual Control: Occupant must manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights.

K. ROOM CONTROLLER D2A 1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 30 minutes, all controlled loads shall turn off.

L. ROOM CONTROLLER D2B 1. Manual Control: Occupant can manually control lights and dimming via local switch(es).

. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 30 minutes, all controlled loads shall turn off.

M. ROOM CONTROLLER D3A 1. Manual Control: Occupant must manually control lights and dimming via local switch(es). . Occupancy: Occupant must manually turn on lights.

N. ROOM CONTROLLER D3B

1. Manual Control: Occupant must manually control lights and dimming via local switch(es). 2. Occupancy: Occupant must manually turn on lights.

3. Vacancy: Occupant must manually turn off lights.

3. Vacancy: Occupant must manually turn off lights.

3. Vacancy: Occupant must manually turn off lights.

O. EXTERIOR LIGHTING 1. Driveway, Pedestrian and Building Mounted Light Fixtures Automatic Control: Fixtures shall be controlled with astronomical time switch control in

conjunction with a single photocell via lighting control panels. A. Fixtures to operate from dusk until dawn.

B. Coordinate additional programing requirements with owner. C. Refer to lighting controls panel schedules and lighting control panel portion of sequence of operations for more information.

2. Parking Lot Pole Mounted Fixture Automatic Controls: A. Fixtures to operate from dusk until dawn, on/off functionality controlled by Synapse Wireless (mesh type) system photocell, located in main electrical room.

B. Parking lots to have a 50% reduction in light output 1-hour after close of business per city of Lee's Summit requirements. Coordinate close of business/district schedule with district and programming. Dimming to be provided by wireless system via twist-lock lighting controller (7-pin receptacle) located C. Coordinate additional programing requirements with owner.

P. LIGHTING CONTROL PANELS LCP1A, LCP1B, LCP1C, LCP1D, LCP1E, LCP1G, LCP1S

1. New Lighting Control Panels to be networked together and interface with exterior photocell and astronomical time clock. Lighting Control Panels to be programmed to turn interior lighting on automatically during building hours of operation (6:00AM to 9:00PM) and accept on/off and dimming input from master controller/local switches. Exterior lighting to operate dusk to dawn. All programming and hours of operation to be coordinated with school district personnel. 2. Master Control Switches to provide 2-hour override of time clock during scheduled building vacancy hours. Individual on/off and dimming of select zones to be controlled by Master Control Switches during non-standard building events. Control zones:

Zone z1: spare

Zone z2: Pedestrian and Driveway Site Light Fixtures (does not include parking lot poles) controlled by astronomical time clock and photocell via lighting control panels. Fixtures to operate from dusk to dawn

Zone z3: Exterior Building Mounted Light Fixtures (does not include parking lot poles) controlled by astronomical time clock and photocell via lighting control panels. Fixtures to operate from dusk to dawn

Zone z4: spare

Zone z5: General Circulation Corridors Levels 1&2 – automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z6: Learning Commons Corridors Levels 1&2– automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z7: Learning Commons Accent Lighting Level 1– automatically operated during hours of operation by time clock and manually controlled by master control switch(es) via lighting control panels

Zone z8: Learning Commons Clerestory Lighting Level 1– automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z9 Medium Group Areas – automatically operated during hours of operation by time clock and manually controlled and dimmed by master

control switch(es) via lighting control panels Zone z10 Large Stair Lighting Areas – automatically operated during hours of operation by time clock and manually controlled and dimmed by master

control switch(es) via lighting control panels Zone z11 Spare

Zone z12 Spare

Zone z13 Theatrical lighting - controlled locally via DMX lighting controls board.

Zone z14 Platform General Lighting - routed through lighting control panel, Manually operated on/off and dimming controls via local switch.

Zone z15 Competition Gym North Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z16 Competition Gym Central Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z17 Competition Gym South Lighting Zone – Manually operated on/off and dimming controls by lighting control switches via lighting control

Zone z18 Commons North Cylindrical - automatically operated during hours of operation by time clock and manually controlled and dimmed by

Zone z19 Commons East Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed

by master control switch(es) via lighting control panels Zone z20 Commons South Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed

by master control switch(es) via lighting control panels Zone z21 Commons West Cylindrical Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed

by master control switch(es) via lighting control panels

Zone z22 Commons West Linear Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z23 Commons East Linear Fixtures - automatically operated during hours of operation by time clock and manually controlled and dimmed by master control switch(es) via lighting control panels

Zone z24 Spare Zone z25 Spare

> CONSTRUCTION **AS NOTED ON PLANS REVIEW** LEE'S SUMMIT, MISSOURI 01/26/2021

RELEASE FOR

CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 002 PR 004

13-20102-00 LIGHT FIXTURE

SCHEDULES