

Lee's Summit R7 District
Athletics Facilities

Lee's Summit High School
400 SE Blue Parkway
Lee's Summit, MO 64063

owner:
Lee's Summit R7 School District
301 NE Tudor Road
Lee's Summit, MO 64086

architect:
Gould Evans
4200 Pennsylvania Avenue
Kansas City, MO 64111
816.931.6655 voice
www.goulddevans.com

structural engineer:
Bob D. Campbell & Company, Inc.
4338 Bellevue Avenue
Kansas City, MO 64111
816.331.4144

civil engineer:
Kaw Valley Engineering
14700 West 134th Terrace
Lenexa, KS 66215
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202003134
MO. CORPORATE NO. E-5560
EXPIRES 12/31/2021

REVISIONS

NUMBER	DESCRIPTION	DATE
1	Addendum 3	10.23.2020

PROJECT NO: 0119-0101
DATE: September 28, 2020

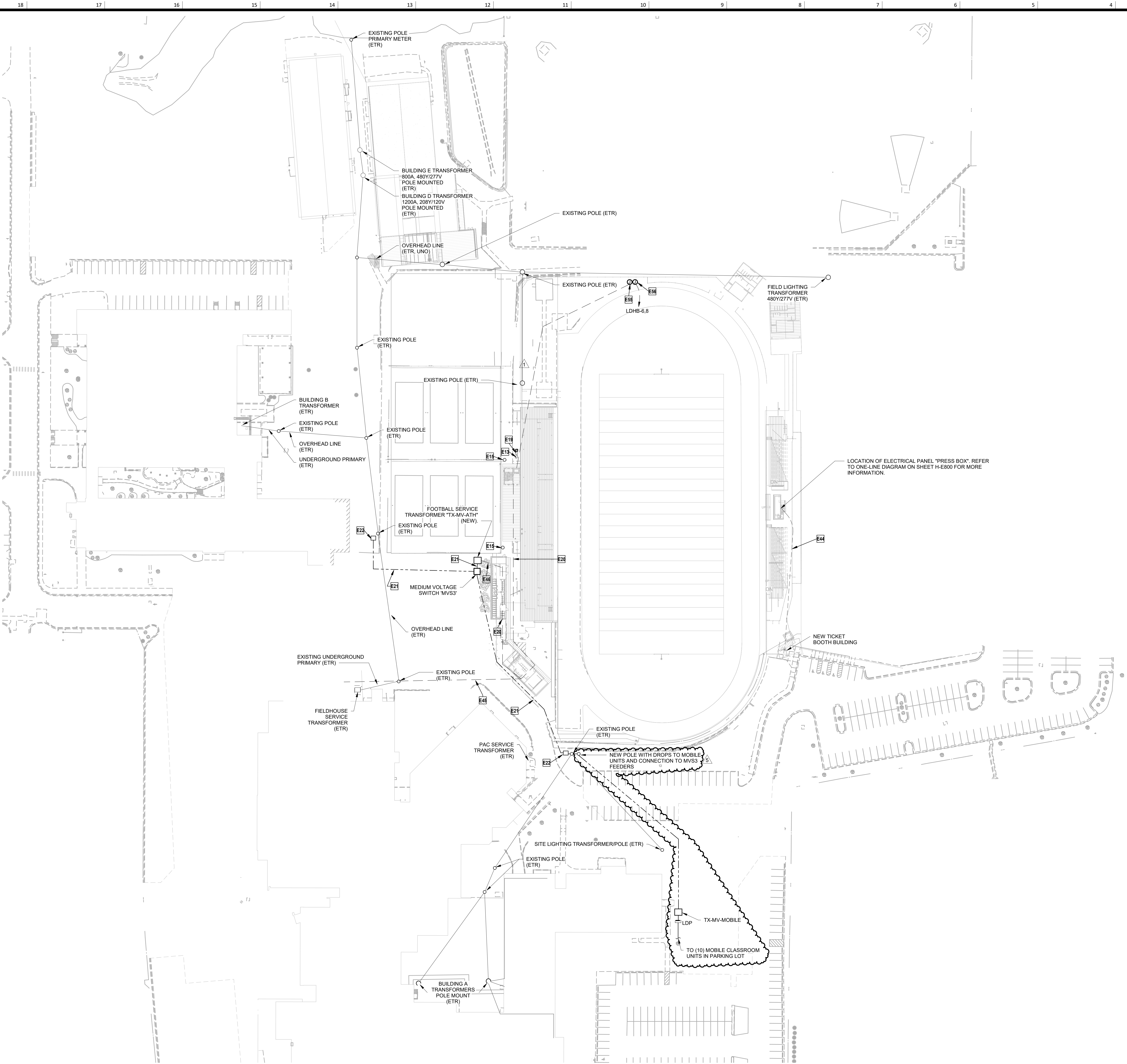
ELECTRICAL SITE PLAN
- NEW

H-E002

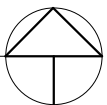
BID SET

ELECTRICAL PLAN NOTES:

- E13 APPROXIMATE LOCATION OF EXISTING TENNIS COURT LIGHTING CABINET.
- E15 NEW LOCATION OF EXISTING TENNIS COURT LIGHT POLES. PROVIDE NEW FEEDER FROM POLE LOCATION TO TENNIS COURT LIGHTING CABINET. NEW FEEDER SHALL MATCH EXISTING SIZE. RE-AM FIXTURES TO MAINTAIN UNIFORM ILLUMINATION ACROSS THE TENNIS COURTS.
- E19 NEW LOCATION OF EXISTING TENNIS COURT LIGHTING CONTROLLER. PROVIDE NEW FEEDER FROM CONTROLLER TO CABINET. NEW FEEDER SHALL MATCH EXISTING.
- E20 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM, CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E800 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
- E21 NEW UNDERGROUND PRIMARY ROUTING SHOWN FOR DIAGRAMMATIC PURPOSES. COORDINATE ROUTING AND DEPTH OF MEDIUM VOLTAGE CONDUITS WITH CIVIL DRAWINGS. REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND WIRE SIZES.
- E22 HAND HOLE FOR CONNECTION TO EXISTING POLE MOUNTED MEDIUM VOLTAGE INFRASTRUCTURE.
- E44 PROVIDE THE FOLLOWING: 2" CONDUIT FOR TELECOM, CONDUIT FOR ELECTRICAL FEEDER, AND (1) 1" SPARE CONDUIT BETWEEN BUILDINGS AS SHOWN. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET H-E801 FOR ELECTRICAL FEEDER CONDUIT SIZING. COORDINATE ROUTING WITH CIVIL ENGINEER.
- E45 PROVIDE (2) 2" CONDUITS FOR TELECOM. ROUTE FROM IDF ROOM AT SCHOOL BUILDING TO CONCESSION BUILDING. COORDINATE ROUTING WITH CIVIL ENGINEER AND OWNER.
- E46 REFER TO ELECTRICAL ONE-LINE ON SHEET H-E800 FOR CONDUIT SIZING FROM TX-MV-ATH TO MDP.
- E55 PROVIDE EMPTY 1-1/4" CONDUIT FROM COMMAND CENTER H1-204 IN PRESS BOX TO EXISTING SCOREBOARD. TERMINATE CONDUIT IN HAND HOLE NEAR SCOREBOARD FOR FUTURE CONNECTION OF LOW VOLTAGE WIRING.
- E56 PROVIDE NEW POWER CONNECTION TO EXISTING SCOREBOARD AS SHOWN. NEW CONDUIT SHALL BE ROUTED PARALLEL TO THE EMPTY LOW-VOLTAGE CONDUIT. PULL (4)#10, #10G FOR THIS CIRCUIT. CURRENT SCOREBOARD IS SINGLE PHASE BUT PROPOSED NEW EQUIPMENT WILL BE 3-PHASE.



1 ELECTRICAL SITE PLAN
1" = 50'-0"



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MO. CORPORATE NO. E-5560
EXPIRES 12/31/2021

REVISIONS		
NUMBER	DESCRIPTION	DATE
5	FW 13	02.19.2021

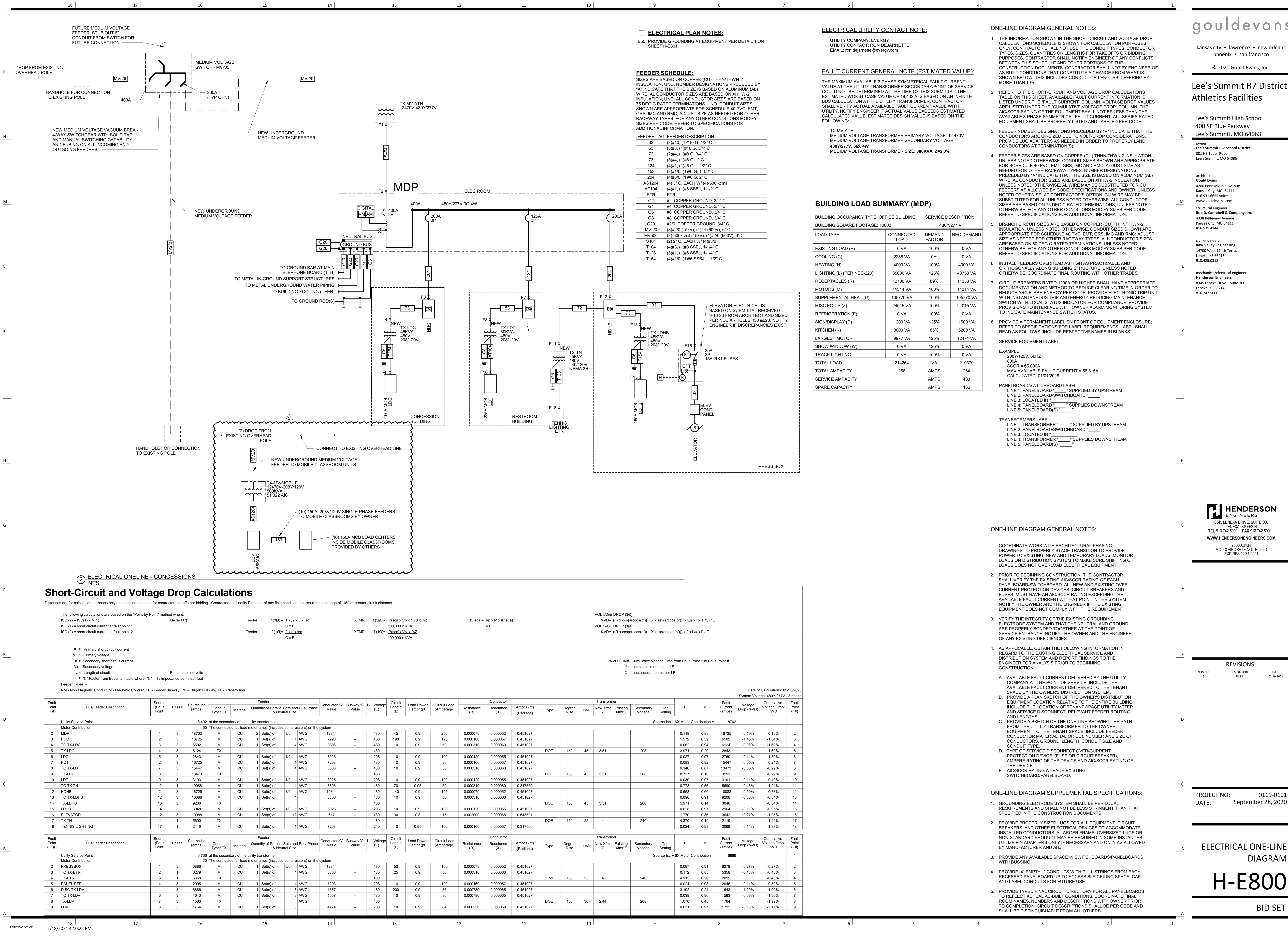
PROJECT NO: 0119-0101
DATE: September 28, 2020

ELECTRICAL
SCHEDULES
H-E601
BID SET

PANELBOARD: HDT (NEW)										EQUIPMENT GROUND BUS							
BUS AMPS: 125A MAIN SIZE/TYPE: 125A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: MDP										FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102							
LINE-SIDE LUGS: MECHANICAL																	
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A	PHASE B	PHASE C	P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.	
1	PWR - UH TENNIS STORAGE 2-101	U		12	20	1	3000	564		1	20	12		L	LTS - RESTROOM BUILDING	2	
3								2728	478		1	20	12		L Z	LTS - EXTERIOR LIGHTING	4
5	TX-LDT	R Z M		OL	70	3	2232	3000		1	20	12					6
7								2500	1667		1	20	12	U	PWR - UH-1	8	
9											1	20	12	U	PWR - UH-2	10	
11	PWR - UH-3	U		12	20	3	2500	1667		3	20	12					12
13								1667	5000								14
15	PWR - UH-4	U		12	20	3	1667	5000		3	25	10		U	WH1		16
17								2500	0		1	20					18
19	PWR - UH-6	U		12	20	3	2500	0		1	20						20
21								0	0		1	20			SPARE		22
23											1	20			SPARE		24
25											1	20			SPARE		26
27	SPARE				20	1		0	0		1	20			SPARE		28
29	SPARE				20	1				0	0	0			SPARE		30
31	SPARE				20	1	0	0	0		1	20			SPARE		32
33	SPARE				20	1		0	0		1	20			SPARE		34
35	SPARE				20	1				0	0	0			SPARE		36
37	SPARE				20	1	0	0			1	20			SPARE		38
39	SPARE				20	1		0	0		1	20			SPARE		40
41	SPARE				20	1				0	0	0			SPARE		42
TOTAL LOAD (VA):							22129 VA	16539 VA	19015 VA								
TOTAL AMPS:							81 A	60 A	70 A								
PANELBOARD NOTES														PANELBOARD TOTALS			
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND													
EXISTING LOAD (E)		0 VA	100%	0 VA										TOTAL CONNECTED LOAD			57684 VA
COOLING (C)		0 VA	0%	0 VA										TOTAL NEC LOAD			58117 VA
HEATING (H)		0 VA	100%	0 VA													
LIGHTING (L)		1037 VA	125%	1296 VA													
RECEPTACLES (R)		1620 VA	100%	1620 VA													
MOTORS (M)		4776 VA	100%	4776 VA													
SUPPLEMENTAL HEAT (U)		49000 VA	100%	49000 VA													
MISC EQUIP (Z)		555 VA	100%	555 VA													
REFRIGERATION (F)		0 VA	100%	0 VA													
SIGN/DISPLAY (D)		0 VA	125%	0 VA													
KITCHEN (K)		0 VA	100%	0 VA													
LARGEST MOTOR		686 VA	125%	870 VA													
SHOW WINDOW (W)		0 VA	125%	0 VA													
TRACK LIGHTING		0 VA	100%	0 VA										TOTAL NEC DEMAND CURRENT			70 A

PANELBOARD: LDT (NEW)														EQUIPMENT GROUND BUS	
BUS AMPS: 225A MAIN SIZE/TYPE: 150A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: HDT VIA TX-LDT														FAULT CURRENT: REFER TO ONE-LINE DIAGRAM AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: TENNIS MOUNTING: SURFACE LOCATION: MEP/Custodian 2-102	
LINE-SIDE LUGS: MECHANICAL															
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR SIZE	P	PHASE A	PHASE B	PHASE C	P	BKR WIRE AMP SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	PWR - EF WOMENS RR 2-104	M		12	20	1	696	0		1	20			SPARE	2
3	PWR - EF MENS RR 2-103	M		12	20	1		696	0	1	20			SPARE	4
5	PWR - TF WOMENS RR	M		12	20	1			696	0	1	20		SPARE	6
7	RCPT - 2-104 GENERAL	R		12	20	1	540	0		1	20			SPARE	8
9	RCPT - 2-103 GENERAL	R		12	20	1		540	0	1	20			SPARE	10
11	RCPT - 2-101/102 GENERAL	R		12	20	1			360	0	1	20		SPARE	12
13	PWR - EF-1	M		12	15	1	696	0		1	20			SPARE	14
15	PWR - EF-2	M		12	15	1		696	0	1	20			SPARE	16
17	PWR - TF-1	M		12	15	1			696	0	1	20		SPARE	18
19	PWR - TF-2	M		12	15	1	696	0		1	20			SPARE	20
21	PWR - RECIRC PUMP	M		12	15	1		500	0	1	20			SPARE	22
23	RCPT - 2-101 EXTERIOR	R		12	20	1			180	0	1	20		SPARE	24
25	PWR - RR MOTORIZED DAMPERS	M		12	20	1	100	0		1	20			SPARE	26
27	PWR - 2-102 DOC CONTROLS	Z		12	20	1		250	0	1	20			SPARE	28
29	PWR - RR AUTO FAUCETS	Z		12	20	1			300	0	1	20		SPARE	30
31	SPARE						0	0		1	20			SPARE	32
33	SPARE							0	0	1	20			SPARE	34
35	SPARE								0	0	1	20		SPARE	36
37	SPARE						0	0		1	20			SPARE	38
39	SPARE							0	0	1	20			SPARE	40
41	SPARE								0	0	1	20		SPARE	42
TOTAL LOAD (VA):							2728 VA	2682 VA	2232 VA						
TOTAL AMPS:							23 A	23 A	19 A						
PANELBOARD TOTALS															
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES									PANELBOARD TOTALS	
EXISTING LOAD (E)		0 VA	100%	0 VA										TOTAL CONNECTED LOAD	7642 VA
COOLING (C)		0 VA	0%	0 VA										TOTAL NEC LOAD	7816 VA
HEATING (H)		0 VA	100%	0 VA										TOTAL CONNECTED CURRENT	21 A
LIGHTING (L)		0 VA	125%	0 VA										TOTAL NEC DEMAND CURRENT	22 A
RECEPTACLES (R)		1620 VA	100%	1620 VA											
MOTORS (M)		4776 VA	100%	4776 VA											
SUPPLEMENTAL HEAT (U)		0 VA	100%	0 VA											
MISC EQUIP (Z)		550 VA	100%	550 VA											
REFRIGERATION (F)		0 VA	100%	0 VA											
SIGN/DISPLAY (D)		0 VA	125%	0 VA											
KITCHEN (K)		0 VA	100%	0 VA											
LARGEST MOTOR		696 VA	125%	870 VA											
SHOW WINDOW (W)		0 VA	125%	0 VA											
TRACK LIGHTING		0 VA	100%	0 VA											

PANELBOARD: LDP (NEW)														EQUIPMENT GROUND BUS									
BUS AMPS: 1200A MAIN SIZE/TYPE: 12000A M.C.B VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: VIA TX-MV-MOBILE														FAULT CURRENT: AIC RATED: FULLY RATED AIC RATING: 65,000AIC SERVICES: MOBILE CLASSROOMS MOUNTING: PAD MOUNTING LOCATION: EXTERIOR									
														LINE-SIDE LUGS: MECHANICAL									
CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.				
1	MOBILE FEEDER 1	Z		1/0	150	2	15750	15750		15750	15750		2	150	1/0		Z	MOBILE FEEDER 2	2				
3																			4				
5	MOBILE FEEDER 3	Z		1/0	150	2						15750	15750	2	150	1/0		MOBILE FEEDER 4	6				
7							15750	15750											8				
9	MOBILE FEEDER 5	Z		1/0	150	2				15750	15750		2	150	1/0		Z	MOBILE FEEDER 6	10				
11												15750	15750	2	150	1/0			12				
13	MOBILE FEEDER 7	Z		1/0	150	2	15750	15750						2	150	1/0		Z	MOBILE FEEDER 8	14			
15									15750	15750									16				
17	MOBILE FEEDER 9	Z		1/0	150	2					15750	15750	2	150	1/0		Z	MOBILE FEEDER 10	18				
19							15750	15750											20				
21	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	22				
23	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	24				
25	EQUIPPED SPACE					1	0	0					1					EQUIPPED SPACE	26				
27	EQUIPPED SPACE					1			0	0			1					EQUIPPED SPACE	28				
29	EQUIPPED SPACE					1					0	0	1					EQUIPPED SPACE	30				
TOTAL LOAD (VA):							125999 VA		94499 VA		94499 VA												
TOTAL AMPS:							1050 A		788 A		788 A												
LOAD TYPE		CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES										PANELBOARD TOTALS								
EXISTING LOAD (E)		0 VA	100%	0 VA											TOTAL CONNECTED LOAD					315000 VA			
COOLING (C)		0 VA	0%	0 VA											TOTAL NEC LOAD					315000 VA			
HEATING (H)		0 VA	100%	0 VA																			
LIGHTING (L)		0 VA	125%	0 VA											TOTAL CONNECTED CURRENT					874 A			
RECEPTACLES (R)		0 VA	0%	0 VA											TOTAL NEC DEMAND CURRENT					874 A			
MOTORS (M)		0 VA	100%	0 VA																			
SUPPLEMENTAL HEAT (U)		0 VA	100%	0 VA																			
MISC EQUIP (Z)		315000 VA	100%	315000 VA																			
REFRIGERATION (F)		0 VA	100%	0 VA																			
SIGN/DISPLAY (D)		0 VA	125%	0 VA																			
KITCHEN (K)		0 VA	100%	0 VA																			
LARGEST MOTOR		0 VA	125%	0 VA																			
SHOW WINDOW (W)		0 VA	125%	0 VA																			
TRACK LIGHTING		0 VA	100%	0 VA																			



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ELECTRICAL ONE-LINE
DIAGRAM

H-E800