APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70)

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE

ENERGY CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE LANDLORD CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
- ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL.) SUCH AS ULLOR ETIL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.

COORDINATE EXACT LOCATION AND REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL

FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS. 4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING BENDS OFFSETS PULL BOXES AND OBSTRUCTIONS CONTRACTOR

EQUIPMENT AND ELECTRICAL DEVICES WITH CIVIL DRAWINGS, EXISTING CONDITIONS AND OTHER

TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND

- SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE I ENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND
- 6. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
- . ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.
- 8. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS; GENERALLY WHERE CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.
- 9. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
- 10. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM OF 24" BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLING ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE DUE TO FUTURE WORK.
- 11. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. COORDINATE EXACT LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- 12. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
- 13. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED

SITE ELECTRICAL GENERAL NOTES:

CONSTRUCT THE COMPLETE PROJECT.

- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE EXACT LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
- COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION
- AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS. SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED TRADES AND ADJUST AS NECESSARY.
- . CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO
- MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE. ALL SITE ELECTRICAL BRANCH CIRCUIT WIRING SHALL BE SIZED SUCH THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP IS LESS THAN 3 PERCENT. FEEDER CIRCUITS TO SPORTS LIGHTING POLES SHALL BE SIZED SUCH THAT THE MAXIMUM VOLTAGE DROP IS LESS THAN 5 PERCENT.
- 6. PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE AND COLLOCATE WITH LOW VOLTAGE BOXES: (COORDINATE EXACT LOCATION WITH CIVIL LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS; CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12", SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED
- PROVIDE PULL BOXES FOR SITE DATA, TELECOM, SECURITY CABLING TO LIMIT MAXIMUM CONDUIT RUNS TO 175'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE. BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "LOW VOLTAGE". GENERAL ROUTING OF MAIN LOW VOLTAGE CONDUIT RUNS HAVE BEEN DOCUMENTED ON SITE ELECTRICAL DRAWINGS, BUT FINAL ROUTING AND EXACT QUANTITY, SIZE, AND LOCATION OF PULL BOXES IS SUBJECT TO CHANGE BASED ON COORDINATION WITH OTHER DISCIPLINES AND TRADES. CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. PULL BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PULL BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12". SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE
- 3. THE SITE PARKING LOT LIGHTING IS DESIGNED TO MEET THE FOLLOWING CRITERIA EXCEPT WHERE LIMITED BY SITE CONSTRAINTS AND LOCAL REQUIREMENTS:
- A.MINIMUM MAINTAINED HORIZONTAL ILLUMINATION LEVEL AT FINISHED GRADE OF 2 FC AT ALL PAVED PARKING AND WALKING SURFACES.
- B. MAX/MIN RATIO FOR EACH AREA SHALL BE LESS THAN 10:1.
- C.PHOTOMETRIC CALCULATION GRID SHALL NOT EXCEED A 10' X 10' SPACING FOR PARKING LOT. D. THE TOTAL LIGHT LOSS FACTOR USED FOR THE CALCULATIONS SHALL BE .72 OF INITIAL LUMEN OUTPUT FOR LED SOURCES, UNLESS NOTED OTHERWISE.
- E. MAXIMUM LUMINAIRE MOUNTING HEIGHT (INCLUDING POLE AND BASE) OF 28' ABOVE FINISHED GRADE
- 8. REFER TO SPECIFICATION 265668 EXTERIOR ATHLETIC FIELD LIGHTING FOR SPECIFIC REQUIREMENTS
- FOR FIELD LIGHTING.
- 10. ATHLETIC FIELD LIGHTS SHALL NOT BE USED FOR GENERAL ILLUMINTION DURING THE CONSTRUCTION PROCESS WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

ALTERNATES

- 2. UNDER ALTERNATE #2, PROVIDE 6-POLE CONFIGURATION FOR THE CHAMPIONSHIP FIELD (FIELD 1). REFER



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RELEASED FOR CONSTRUCTION As Noted on Plans Review

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317 SF Main

08/11/2022

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ANDREA (MULVANY

NUMBERUH

PE-2013039892 /

ANDREA C. MULVANY

DRAWING

SHEET NO:

ICENSE # PE-2013039892

LEGENDS

ELECTRICAL

SYMBOLS AND

JOB NO: 1197 SCALE: N/A

DATE: 02.16.2022 DRAWN BY: MAP

FOR PARKING LOT LIGHTING.

9. CONDUITS SHALL NOT BE ROUTED UNDER ANY ATHLETIC FIELD PLAYING SURFACES.

1. UNDER ALTERNATE #1, PROVIDE SPORTS LIGHTING TO MEET HIGHER TARGET ILLUMINATION LEVELS AT PLAYING FIELDS. REFER TO 265668.1.5.B.2 FOR BASE BID AND ALTERNATE ILLUMINATION LEVELS.

TO 265668.1.5.B.2 FOR ILLUMINATION LEVELS. VENDOR MUST ACCOUNT FOR UPDATED LIGHTING APPROACH ON FIELD 2 WITH 3-POLES ON THE WEST AND 2-POLES ON THE EAST.

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PROVIDE INDICATED QUANTITY AND SIZE OF UNDERGROUND CONDUITS FOR TELECOM/DATA/SECURITY CABLING. PROVIDE PULL STRING IN ALL CONDUITS. ENSURE MAXIMUM SEPARATION BETWEEN PULL BOXES DOES NOT EXCEED

PROVIDE INDICATED QUANTITY AND SIZE OF UNDERGROUND CONDUITS WITH PULL STRINGS FROM NEAREST PULL BOX ROUTED TO INDICATED LOCATION FOR FUTURE USE. CAP AND STAKE BELOW GRADE.

3 EXTEND EXISTING PARKING LOT LIGHTING CIRCUIT FROM PREVIOUS PHASE TO INDICATED PANEL. FIELD VERIFY EXACT LOCATION. PARKING LOT LIGHTING CIRCUITS SHALL BE RAN THROUGH LIGHTING RELAY PANEL WITH PHOTOCELL ON AND DIGITAL TIMER OFF CONTROL.

4 PARKING LOT POLES, CONDUIT, AND CIRCUITING BETWEEN POLES INSTALLED IN PREVIOUS PHASE.

INSTALL A MINIMUM 41" DEPTH FROM FINAL GRADE TO TOP OF CONDUIT WITH BURIED ELECTRIC LINE PLASTIC CAUTION TAPE AT A DEPTH OF 12" PER UTILITY STANDARDS.

PROVIDE INDICATED QUANTITY AND SIZE OF CONDUITS WITH PULL STRINGS FROM INDICATED PULL BOX LOCATION TO ADJACENT SPORTS LIGHTING POLE FOR TELECOM/DATA/AV.

7 PROPOSED TELECOM DEMARC LOCATION.

TELECOM ENTRANCE CONDUITS. PROVIDE (2) 4" CONDUITS WITH PULL STRINGS TO DEMARC LOCATION. CONFIRM ENTRANCE LOCATION INTO SITE. ENSURE MAXIMUM DISTANCE BETWEEN PULL BOXES DOES NOT EXCEED 175'.

 PROPOSED ROUTING FOR UNDERGROUND FEEDER FROM MSB TO REMOTE DISTRIBUTION PANEL. REFER TO E-300 FOR FEEDER SIZES TO DP1 AND LF3 UNDER BASE BID AND ALTERNATE 1. PROVIDE INTERMEDIATE PULL BOXES ALONG LENGTH AS REQUIRED, LOCATE NEAR LOW VOLTAGE PULL BOXES.

PROPOSED LOCATION FOR PAD MOUNT UTILITY TRANSFORMER. SEE 4/E600 FOR ADDITIONAL INFORMATION.

PROPOSED SCOREBOARD LOCATION. PROVIDE POWER ON INDICATED CIRCUIT AND (1) 1" CONDUIT WITH PULL STRING TO NEAREST TELECOM/DATA PULL BOX.

PROPOSED FIELD CAMERA LOCATION. PROVIDE POWER ON INDICATED CIRCUIT AND (1) 1" CONDUIT WITH PULL STRING TO NEAREST TELECOM/DATA PULL BOX. TERMINATE POWER AND DATA CONDUITS IN 12"X12" IN-GRADE TRAFFIC RATED BOXES.

SPORTS LIGHTING CIRCUIT (TYPICAL). POLE ACCESSORY CIRCUIT (TYPICAL)

POLE RECEPTACLE CIRCUIT (TYPICAL). WHERE INDICATED IN PARENTHESES, PROVIDE WIRING UP TO PANEL LOCATION. PANEL WILL BE INSTALLED IN FUTURE PHASE.

16 CONDUITS SHALL BE ROUTED PARALLEL TO LOW VOLTAGE CONDUITS. PULL BOX LOCATIONS SHALL BE LOCATED NEAR LOW VOLTAGE PULL BOXES WHERE POSSIBLE. TYPICAL FOR ALL CONDUITS FOR LINE VOLTAGE CIRCUITS. RE: 6/E600 FOR SCOPE RESPONSIBILITY

PROPOSED LOCATION(S) FOR DIGITAL SIGNAGE / WAYFINDING. PROVIDE POWER ON INDICATED CIRCUIT AND (1) 1" CONDUIT TO NEAREST TELECOM/DATA PULL

IN-GRADE BOXES. 18 SEE 2/E100 FOR ENLARGED PLAN OF THIS AREA.

TERMINATE POWER AND DATA CONDUITS IN 12"X12"

BOX WITH PULL STRING FROM EACH LOCATION.

SEE 3/E100 FOR ENLARGED PLAN OF THIS AREA. 20 SEE 4/E100 FOR ENLARGED PLAN OF THIS AREA.

21 EXACT EQUIPMENT LOCATION TO BE FINALIZED WITH ARCHITECT AND OWNER PENDING FUTURE CONCESSION BUILDING CONSTRUCTION PROJECT. PROVIDE 18" LOCKABLE POWER PEDESTAL WITH (2) GFCI RECEPTACLES, PEDOC #5P18HT-1, AT PATHWAY

EDGE. ONE RECEPTACLE SHALL BE WIRED ON

SHARED CIRCUIT. 23 COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS AT GATE. OTHERWISE PROVIDE WP JUNCTION BOX WIRED ON INDICATED CIRCUIT AT GATE

FOR FUTURE USE.

DEDICATED CIRCUIT, OTHER SHALL BE WIRED ON

24 PROVIDE (1) 1-1/2" CONDUIT WITH PULL STRING FROM DP1 TO FUTURE MAINTENANCE BUILDING FOR FUTURE FEEDER. PROVIDE INTERMEDIATE PULL BOX AT LOCATION SHOWN.

PROPOSED LOCATION FOR SPORTS LIGHTING CONTROL

PROVIDE (2) LED AREA FLOOD LIGHTS AT INDICATED POLE LOCATED APPROXIMATELY 30' ABOVE GRADE. FIXTURES SHALL BE CIRCUITED ON THE 277V ACCESSORY CIRCUIT INDICATED (REF NOTE 14 ON THIS SHEET). FIXTURES SHALL BE 277V, TYPE 4 DISTRIBUTION, FULL CUTOFF, CAPABLE OF DELIVERING 20,000 LUMENS WITH A MAXIMUM WATTAGE OF 200W. SPORTS COMPLEX ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR PROCUREMENT AND INSTALLATION OF FIXTURES, CONDUIT, AND CIRCUITING FOR FLOOD LIGHTS, AND WILL COORDINATE WITH SPORTS LIGHTING ELECTRICAL SUB-CONTRACTOR FOR FINAL INSTALLATION.

PROVIDE JUNCTION BOX WIRED ON INDICATED CIRCUIT AT LANDSCAPING BED AND CONNECTION TO (13) DIRECT BURIAL PEDESTRIAN LIGHTS ALONG LENGTH OF LANDSCAPING BED. PROVIDE AN ALLOWANCE OF \$1000 PER FIXTURE, FIXTURE TO BE SELECTED BY LANDSCAPE ARCHITECT AND OWNER. TYPICAL OF LANDSCAPING BEDS ON SOUTH SIDE OF FIELDS 1 AND 2.

ALTERNATE #2: 6-POLE SPORTS LIGHTING CONFIGURATION FOR CHAMPIONSHIP FIELD (FIELD 1). CIRCUITING CONFIGURATION SHALL BE UPDATED IN ADDENDUM PER SPORTS LIGHTING LOAD REQUIREMENTS IF ALTERNATE IS ACCEPTED.

GENERAL NOTES:

1. REFER TO SHEET E000 FOR GENERAL NOTES.

2. SPORTS LIGHTING VENDOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING FOR POLE LIGHTING, POLE SIGNAGE, AND POLE RECEPTACLE CIRCUITS AND ALL POLE LIGHTING CONTROL EQUIPMENT AND CABLING. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAIN FEEDERS, ELECTRICAL EQUIPMENT, LOW VOLTAGE CONDUITS, AND ALL CONDUIT AND WIRING FOR SITE AREA LIGHTING AND LOCAL POWER CIRCUITS. REFER TO NOTE 16 ON THIS SHEET AND 6/E-600.

3. PROVIDE CONCRETE PAD FOR MOUNTING OF ALL ELECTRICAL EQUIPMENT SHOWN IN 2/E100, 3/E100 AND 4/E100. INCLUDING BUT NOT LIMITED TO MSB. DISCONNECTS, PANELBOARDS, TRANSFORMERS T-P1, T-P2, T-P3, T-DP1 AND T-LF3. ALL ELECTRICAL EQUIPMENT NOT GROUND MOUNTED SHALL BE MOUNTED TO UNISTRUT FRAMING SET WITHIN CONCRETE PAD.

CONTRACTOR(S) SHALL REFER TO DETAIL 6/E600 FOR SCOPE RESPONSIBILITIES BY ELECTRICAL CONTRACTOR UNDER THE SPORTS COMPLEX MAIN ELECTRICAL DISTRIBUTION INSTALLATION AND THE SCOPE RESPONSIBILITIES OF THE "TURN-KEY" SPORTS LIGHTING INSTALLATION BY THE SPORTS LIGHTING VENDOR.

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PROJECT:

omplex 1401

LICENSE # PE-2013039892

ELECTRICAL SITE PLAN

JOB NO: 1197 SCALE: 1:100

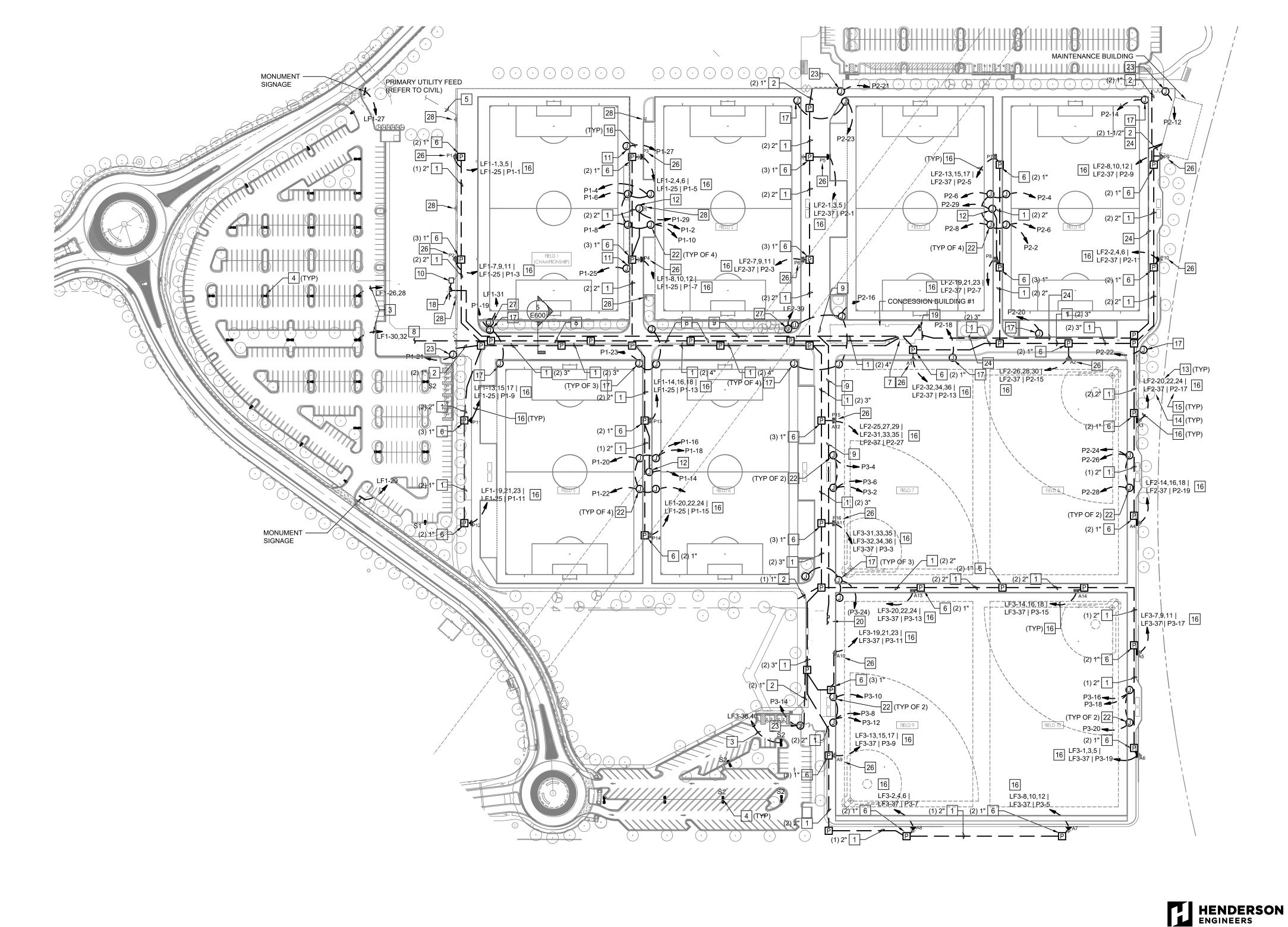
DATE: 02.16.2022 DRAWN BY: MAP

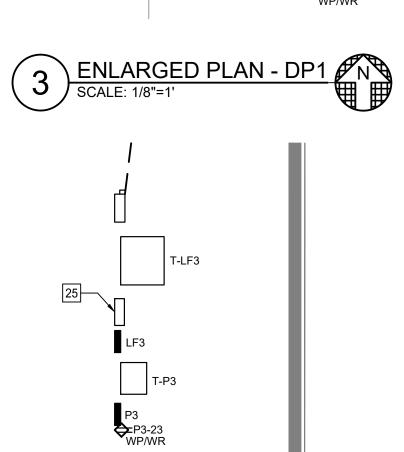
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E-100





(FUTURE CONCESSION BLDG) 21

PRIMARY UTILITY

CONDUIT/FEEDER

(REFER TO CIVIL)

UTILITY TRANSFORMER

n / METER

ENLARGED PLAN - MSB N SCALE: 1/8"=1'





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208 5

480 5 0.8

8.0

130 0.000100 0.000051 0.643501

300 0.000086 0.000052 0.643501

DOE | 150 | 112.5 | 4.37

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0.007 0.99 3908 -0.06% 3.98% 21

208 0.05 1.225 0.45 3934

1 AWG

10741

Set(s) of

10 3 3817 M AL 1 Set(s) of 4/0 AWG

20 3 3934 M AL 2 Set(s) of 250 kcmil

19 3 3793 TX

19 T-P2 (PRIMARY)

20 T-P2 (SECONDARY)

1 PROVIDE ENERGY-REDUCING MAINTENANCE SYSTEM FOR ARC FLASH MITIGATION. PROVIDE CONTROL UNIT WITH NORMAL/MAINTENANCE SELECTOR SWITCH AND ALL REQUIRED WIRING BETWEEN SELECTOR SWITCH AND CIRCUIT BREAKER. PROVIDE WITH BLUE STROBE ENABLED

4 PROVIDE BOARD MOUNTED DIGITAL DEMAND METER. REFER TO SPECIFICATIONS FOR

COORDINATE OVERCURRENT PROTECTION DEVICE SIZE WITH SPD SUBMITTAL INFORMATION AND PROVIDE AS REQUIRED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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1401

ELECTRICAL ONE-LINE DIAGRAM

JOB NO: 1197 SCALE: N/A DATE: 02.16.2022 DRAWN BY: MAP

SHEET NO:

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1401 NW

CONSTRUCTION

8787 Renner Boulevard, Suite 100

HENDERSON ENGINEERS, Inc.

LINE-SIDE LUGS: MECHANICAL

EQUIPMENT GROUND BUS

Development Services Depar Lee's Summit, Missour

MAIN SIZE/TYPE: MLO SERVES: NEMA 3R VOLTS/PHASE: 480Y/277V, 3PH, 4W MOUNTING: SURFACE SECTION: 1 LOCATION: MSB VOLTAMPS/PHASE WIRE BKR P P BKR WIRE VOLTAMPS/PHASE

A B C NO. AMP AMP NO. A B C DESCRIPTION POLE P3 (FIELD 1/2) 11,203 (ALT 1 - 90A / #1) 3 POLE P1 (FIELD 1) **5** (ALT 1 - 50A / #6) 6,943 11,203 POLE P4 (FIELD 1/2) 11,203 (ALT 1 - 90A / #2) 9 POLE P2 (FIELD 1) **11** (ALT 1 - 50A / #8) 6,943 9,123 POLE P13 (FIELD 5/6) 9,123 (ALT 1 - 70A / #3) 15 POLE P11 (FIELD 5) **17** (ALT 1 - 40A / #8) 9,123 POLE P14 (FIELD 5/6) 9,123 (ALT 1 - 70A / #2) **21** POLE P12 (FIELD 5) 23 (ALT 1 - 40A / #6) 25 POLE SIGNS ACCESSORY PARKING LOT LTG - NW 27 MONUMENT SIGN - NW 29 MONUMENT SIGN - W 1,400 PARKING LOT LTG - W 31 PEDESTRIAN LIGHTS 33 SPARE EQUIPPED SPACE 35 SPARE EQUIPPED SPACE 37 SPARE EQUIPPED SPACE 39 EQUIPPED SPACE EQUIPPED SPACE EQUIPPED SPACE 41 EQUIPPED SPACE SUBTOTAL SUBTOTAL 24,810 24,210 24,210 43,352 41,952 42,052 TOTAL PHASE A - VA 68,162 LOAD

AMPS 246 COOLING CONN. VA DF LOAD CONN. VA DF REFRIG TOTAL PHASE B - VA 66,162 HEATING SIGN/DISP (D) 1.25 2,400 239 LIGHTING KITCHEN (K) 1.00 AMPS TOTAL PHASE C - VA 66,262 RECEPTACLES (R) EXISTING (E) AMPS 239 MOTORS (M) LRG MOTOR 1.25 TOTAL DEMAND TOTAL PNLBD - VA 200,586 SUPP HEAT (U) SHOW WND (W) 250,733 VA 241 MISC EQUIP (Z) LTG TRACK 1.00 AMPS PANELBOARD NOTES GR - PROVIDE GROUND SIZE IN ACCORDANCE WITH NEC 250.122(B)

AIC RATING: FCA +10% MINIMUM FULLY RATED

FED FROM:

PANELBOARD: LF1 (NEW)

BUS AMPS: 400A (ALT 1 - 600A)

BUS MAIN	NELBOARD: P1 (NEW 3 AMPS: 225A N SIZE/TYPE: 225A MCB TS/PHASE: 208Y/120V, 3PH, 4W	v)			SER	ATING	Э:		000 FUL	T-P1 .LY RA	TED			LINE-SIDE LUGS: MEC EQUIPMENT GROL	
	TION: 1					ATION:									
СКТ	DESCRIPTION	VOL ⁻	TAMPS/PI	HASE	WRE	BKR	Р	Р	BKR	WRE	VOL	ΓAMPS/PH	IASE	DESCRIPTION	=
NO.		Α	В	С	-	AMP			AMP	NO.	Α	В	С		
1	RCPT - POLE P1	1,000			6	20	1	1	20	6	720			PED - BREEZE F1/2	=
	RCPT - POLE P2	1,100	1,000		10	20	1		20	6		180		PED - RCPT F1/2 NE	_
_	RCPT - POLE P3		.,	1,000	3	20	+ -	1	20	6			180	PED - RCPT F1/2 NW	_
	RCPT - POLE P4	1,000		1,000	4	20	 i	-	20	6	180		100	PED - RCPT F1/2 SW	_
	RCPT - POLE P11	1,000	1,000		6	20	1	-	20	6	100	180		PED - RCPT F1/2 SE	_
	RCPT - POLE P12		.,	1,000	4	20	1	<u> </u>	20	6			500	PWR - FIELD CAM 5/6	_
	RCPT - POLE P13	1.000		1,000	4	20	-	1	20	4	720			PED - BREEZE F5/6	_
		1,000	1,000		3	20	-	1	20	4	. 20	180		PED - RCPT F 5/6 NE	_
	RCPT - MSB		1,000	180	12	20	₩.	1	20	4		100	180	PED - RCPT F 5/6 NW	_
	PWR - SINAGE W ENTRY	600		100	12	20	<u> </u>	1	20	4	180		100	PED - RCPT F 5/6 SW	_
	PWR - W GATE	1 000	500		12	20	-	1	20	4	100	180		PED - RCPT F 5/6 SE	-
	PWR - SIGNAGE W CROSSING		000	1,200	6	20	_	1	20	12		100	500	PWR - LTG CTRLS	_
	PWR - SCRBOARD FLD 1 S	500		1,200	8	20		1	20	12				SPARE	_
	 	300	500		6	20	_	1	20					SPARE	_
	PWR - FIELD CAM 1/2		300	500	6	20	_	1	20					SPARE	_
	SPARE			300	-	20		1	20					SPARE	_
	SPARE				-	20	-	1	20					SPARE	_
	SPARE				-	20	-	1	20					SPARE	_
	SPARE					20	1	_	20					SPARE	_
	SPARE				-	20	1	<u> </u>	20					SPARE	_
	SPARE				-	20	1	<u> </u>	20					SPARE	_
	TION: 2					20	<u>'</u>	<u>'</u>	20					SPARE	_
	EQUIPPED SPACE	1			_		1 4	1						EQUIPPED SPACE	_
	EQUIPPED SPACE				-		1	-						EQUIPPED SPACE	_
	EQUIPPED SPACE						<u>†</u>	<u> </u>						EQUIPPED SPACE	_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE	_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE	_
	EQUIPPED SPACE				-		<u> </u>	-						EQUIPPED SPACE	_
	EQUIPPED SPACE							1						EQUIPPED SPACE	_
	EQUIPPED SPACE						_	1						EQUIPPED SPACE	_
	EQUIPPED SPACE						1	-		-				EQUIPPED SPACE	_
	EQUIPPED SPACE						1	-						EQUIPPED SPACE	_
	EQUIPPED SPACE				-		<u> </u>	1						EQUIPPED SPACE	_
	EQUIPPED SPACE				-		1	1						EQUIPPED SPACE	_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE	_
	EQUIPPED SPACE				-		+ -	-							_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE EQUIPPED SPACE	_
	 						1	1							_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE EQUIPPED SPACE	_
	EQUIPPED SPACE						1	1						EQUIPPED SPACE	_
	EQUIPPED SPACE						1	-						EQUIPPED SPACE	_
	EQUIPPED SPACE														_
	 							1						EQUIPPED SPACE EQUIPPED SPACE	_
۳	SUBTOTAL	4,100	4.000	3,880			<u> </u>	<u> </u>			1,800	720	1,360	SUBTOTAL	_
			4,000	<u> </u>	<u>. </u>			1						SUBTUTAL	=
	TOTAL PHASE A - VA 5,900	LOAD	(0)	CONN. \	/A	DF	1	LO			C	ONN. VA	DF		
	AMPS 49	COOLING	. ,			1.00			-RIG	(F)			1.00		
	TOTAL PHASE B - VA 4,720	HEATING	(H)			0			N/DISP				1.25		
	AMPS 39	LIGHTING				1.25	1		CHEN	(K)			1.00		
	TOTAL PHASE C - VA 5,240	RECEPTA		3,060		1.0/.5			STING	(E)			1.00		_
	AMPS 44	MOTORS	(M)			1.00			G MOTO				1.25	TOTAL DEMAND	_
	TOTAL PNLBD - VA 15,860	SUPP HEA	. ,			1.00			OW Wh				1.25	15,86	
	AMPS 44	MISC EQU	IP (Z)	12,800		1.00		LTO	3 TRAC	K			1.00		4
PAN	IELBOARD NOTES GR - PROVIDE GROUND SIZE IN LCK - HANDLE PADLOCKABLE-C			TH NEC 2	250.12	2(B)								FEED THRU CONNECT	ΓI¢

HENDERSON
ENGINEERS

1801 MAIN STREET, SUITE 300
KANSAS CITY, MO 64108
TEL 816.663.8700 FAX 816.663.8701

WWW.HENDERSONENGINEERS.COM

1850004412
MO. CORPORATE NUMBER: E-556D
12/31/22

Paragon Star Soccer Complex
Soccer Complex & Associated Improvements

PROFESSIONAL OF MISSOLATION ANDREA C. MULVANY

LICENSE # PE-2013039892

08/11/2022

ELECTRICAL SCHEDULES

JOB NO: 1197 SCALE: N/A
DATE: 02.16.2022 DRAWN BY: MAP

ΓNO:

DREA C. MULVANY

PANELBOARD: LF2 (NEW) BUS AMPS: 400A (ALT 1 - 600A) MAIN SIZE/TYPE: MLO VOLTS/PHASE: 480Y/277V, 3PH, 4W SECTION: 1						FED FROM: DP1 LINE-SIDE LUGS: M AIC RATING: FCA +10% MINIMUM FULLY RATED SERVES: MOUNTING: SURFACE LOCATION: CONC 1 MRE BKR P P BKR WIRE VOLTAMPS/PHASE DESCRIPTION										
CKT	DESCRIPTION	VOLTAMPS/PHAS		HASE C		BKR AMP	Р	Ρ	BKR AMP			TAMPS/PH		DESCRIPTION	CKT	
NO.			В	C	NO.	AIVIP			AIVIP	NO.	A 500	В	С		NO.	
3	 POLE P5 (FIELD 2/3)	9,123	9.123		6	50	3	3	25	8	4,562	4,562		POLE P10 (FIELD 4)	4	
5	(ALT 1 - 80A / #4)		9,125	9.123	l °	50	٦	٦	23	0		4,302	4.562	(ALT 1 - 40A / #6)	6	
7	(1211 33777 117)	9,123		0,120							4,562		4,502	(ALT 1 - 40A) #0)	8	
9	POLE P6 (FIELD <i>2/</i> 3)	3,123	9,123		6	50	3	3	25	6	1,002	4,562		POLE P9 (FIELD 4)	10	
11	(ALT 1 - 80A / #3)		, , , ,	9,123	1								4,562	(ALT 1 - 40A / #4)	12	
13	,	9,123		,							3,757		,	,	14	
15	POLE P7 (FIELD 3/4)		9,123		4	50	3	3	20	8		3,757		POLE A4 (FIELD 8)	16	
17	(ALT 1 - 70A / #4)			9,123	1								3,757	(ALT 1 - 30A / #6)	18	
19		9,123									3,757				20	
21	POLE P8 (FIELD 3/4)		9,123		4	50	3	3	20	8		3,757		POLE A3 (FIELD 8)	22	
23	(ALT 1 - 70A / #4)			9,123									3,757	(ALT 1 - 30A / #6)	24	
25	DOLE DAE (FIELD A)	4,562									3,757				26	
27	POLE P15 (FIELD 6)		4,562	4,562	10	25	3	3	20	12		3,757	2.757	POLE A2 (FIELD 8)	28	
29 31	(ALT 1 - 40A / #8)	2.757		4,562							0.757		3,757	(ALT 1 - 30A / #10)	30 32	
	 POLE A12 (FIELD 7)	3,757	3.757		12	20	3	3	20	12	3,757	3.757		POLE A1 (FIELD 7)	34	
35	(ALT 1 - 30A / #10)		3,737	3.757	'_	20	٦	٦	20	'2		3,737	3.757	(ALT 1 - 30A / #10)	36	
37	POLE SIGNS ACCESSORY	1,200		0,707	10	20	1	1					0,707	EQUIPPED SPACE	38	
	PEDESTRIAN LIGHTS	1,200	1.000		10	20	1	_						EQUIPPED SPACE	40	
41	SPARE		,,===			20	1	1						EQUIPPED SPACE	42	
	SUBTOTAL	46,011	45,811	44,811							24,152	24,152	24,152	SUBTOTAL		
	TOTAL PHASE A - VA 70.163	LOAD		CONN. \	<u>/</u> /A	DF		LO	AD		C	ONN. VA	DF			
	AMPS 253	COOLING	(C)			1.00		RE	FRIG	(F)			1.00	1		
	TOTAL PHASE B - VA 69,963	HEATING	(H)			0		SIG	N/DISF	(D)			1.25			
	AMPS 253	LIGHTING		209,089		1.25	1	ΚIT	CHEN	(K)			1.00			
	TOTAL PHASE C - VA 68,963	RECEPTA	CLES (R)			1.0/.5			STING	(E)			1.00			
	AMPS 249	MOTORS	(M)			1.00			G MOT				1.25	TOTAL DEMAND		
	TOTAL PNLBD - VA 209,089	SUPP HEA	. ,			1.00			OW WO				1.25	261,361 \		
	AMPS 251	MISC EQU	IP (Z)	1		1.00	1	LTC	3 TRAC	X			1.00	314	ł A	

BUS. MAIN	NELBOARD: P2 (NEW AMPS: 400A SIZE/TYPE: 400A MCB (S/PHASE: 208Y/120V, 3PH, 4W	v)			AIC F	FROM: RATING VES: NTING	3:			T-P2 LLY RA	TED			LINE-SIDE LUGS: MECHAN EQUIPMENT GROUND NEM	
SECT	ΓΙΟΝ: 1					ATION:									
CKT NO.	DESCRIPTION	VOL ⁻	FAMPS/PI	HASE C		BKR AMP	Ρ	Р	BKR AMP		VOL ⁻	TAMPS/PH B	HASE C	DESCRIPTION	CK.
	RCPT - POLE P5	1,000			6	20	1	1	_	8	720		<u> </u>	PED - BREEZE F3/4	2
٠ ١	RCPT - POLE P6	1,000	1,000		4	20	1	<u> </u>		8	720	180		PED - RCPT F 3/4 NE	4
	RCPT - POLE P7		1,000	1,000	6	20	1	<u>†</u>	20	8		100	180	PED - RCPT F 3/4 NW	6
- 1	RCPT - POLE P8	1.000		1,000	4	20	1	<u> </u>		8	180		100	PED - RCPT F 3/4 SW	8
	RCPT - POLE P9	1,000	1.000		3	20	1	1	20	8	100	180		PED - RCPT F 3/4 SE	10
-	RCPT - POLE P10		1,000	1.000	4	20	1	<u>†</u>	20	3		100	1.000	PWR- NE GATE	12
	RCPT - POLE A1	1,000		1,000	12	20	1	1	20	6	500		1,000	PWR - SIGNAGE NE GATE	14
	RCPT - POLE A2	1,000	1,000		6	20	1	<u>†</u>		12		1,000		PWR - SIGNAGE C CROSSING	16
	RCPT - POLE A3		1,000	1,000	4	20	1	<u> </u>	20	12		1,000	250	PWR - SIGNAGE CONC 1	18
	RCPT - POLE A4	1.000		1,000	3	20	1	<u>†</u>	20	12	250		200	PWR - SIGNAGE FILED 4	20
1	PWR - N GATE	1,000	1,000		3	20	1	1		10	200	250		PWR - SIGNAGE E PATH	22
	PWR - SIGNAGE N GATE		.,000	500	6	20	1	<u>†</u>	_	6			360	PED - BREEZE F8	24
1	PWR - LTG CTRLS	500			12	20	1	1	20	6	180			PED - RCPT F8 N	26
	RCPT - POLE P15/A12		1,000		6	20	1	<u>†</u>	20	6	100	180		PED - RCPT F8 S	28
1	PWR - FIELD 3/4 CAMERA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	500	8	20	1	1		 				SPARE	30
	RCPT - P2	180			12	20	1	1	20					SPARE	32
	SPARE	, 55			··-	20	1	1	20					SPARE	34
	SPARE					20	1	1						SPARE	36
	SPARE					20	1	1	20					SPARE	38
	SPARE					20	1	1	20					SPARE	40
	SPARE					20	1	1	20					SPARE	42
	TION: 2					1								[0.711]	
43	SPARE					20	1	1	20					SPARE	44
45	SPARE					20	1	1	20					SPARE	46
47	SPARE					20	1	1	20					SPARE	48
49	SPARE					20	1	1	20					SPARE	50
51	SPARE					20	1	1	20					SPARE	52
53	SPARE					20	1	1	20					SPARE	54
55	SPARE					20	1	1	20					SPARE	56
57	SPARE					20	1	1	20					SPARE	58
59	SPARE					20	1	1	20					SPARE	60
61	SPARE					20	1	1	20					SPARE	62
63	SPARE					20	1	1	20					SPARE	64
65	SPARE					20	1	1	20					SPARE	66
67	SPARE					20	1	1	20					SPARE	68
69	SPARE					20	1	1	20					SPARE	70
71	EQUIPPED SPACE						1	1						EQUIPPED SPACE	72
73	EQUIPPED SPACE						1	1						EQUIPPED SPACE	74
75	EQUIPPED SPACE						1	1						EQUIPPED SPACE	76
	EQUIPPED SPACE						1	1						EQUIPPED SPACE	78
79	EQUIPPED SPACE						1	1						EQUIPPED SPACE	80
81	EQUIPPED SPACE						1	1						EQUIPPED SPACE	82
83	EQUIPPED SPACE					L	1	1						EQUIPPED SPACE	84
	SUBTOTAL	4,680	5,000	4,000							1,830	1,790	1,790	SUBTOTAL	
	TOTAL PHASE A - VA 6,510	LOAD		CONN. \	/A	DF		LO	AD		C	ONN. VA	DF		
	AMPS 54	COOLING	(C)			1.00			FRIG	(F)			1.00	1	
	TOTAL PHASE B - VA 6,790	HEATING	(H)			0	J		N/DISF			>=0==0==0==0==0==0==0==0==0==0==0==0==0	1.25	1	
	AMPS 57	LIGHTING				1.25			CHEN	(K)			1.00	1	
	TOTAL PHASE C - VA 5,790	RECEPTAG		2,340		1.0/.5		EXI	ISTING				1.00	1	
	AMPS 48	MOTORS	(M)			1.00			G MOT				1.25	TOTAL DEMAND	1
	TOTAL PNLBD - VA 19,090	SUPP HEA				1.00				ND (W)			1.25	19,090 VA	1
	AMPS 53	MISC EQU		16,750		1.00			G TRA				1.00	53 A	_
	ELBOARD NOTES LCK - HANDLE PADLOCKABLE-C	FF DEVIC				•	•	•					FEED	THRU CONNECTION: (2) Sets o	f#3/

NO. 1 3 POLE A6 (F	(FIELD 10) (OA/#6) (FIELD 9) (OA/#10) (FIELD 9)	3,757 3,757 3,757	3,757 3,757 3,757	3,757 3,757		20 20		3 3	BKR AMP 20		VOL ¹ A 3,757	B 3,757	С	DESCRIPTION POLE A8 (FIELD 9)	2
1 POLE A6 (F (ALT 1 - 30, 7 POLE A9 (F 11 (ALT 1 - 30, 13 15 POLE A9 (F 17 (ALT 1 - 30, 19 21 POLE A10, 23 (ALT 1 - 30, 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 51 T-P3/L3 53	(FIELD 10) (OA/#6) (FIELD 9) (OA/#10) (FIELD 9)	3,757	3,757 3,757 3,757	3,757	6 8	20			20				-	POLE A8 (FIELD 9)	2 4
3 POLE A6 (F 5 (ALT 1 - 30) 7 9 POLE A5 (F 11 (ALT 1 - 30) 13 15 POLE A9 (F 17 (ALT 1 - 30) 19 21 POLE A10 (ALT 1 - 30) 23 (ALT 1 - 30) 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 44 SPARE 45 EQUIPPED 49 51 T-P3 / L3 53	(FIELD 10) (OA/#6) (FIELD 9) (OA/#10) (FIELD 9)	3,757	3,757	3,757	8	20				8	3,757	3,757		POLE A8 (FIELD 9)	
5 (ALT 1 - 30, 7 9 POLE A5 (F) (ALT 1 - 30, 13 15 POLE A9 (F) (ALT 1 - 30, 19 POLE A10 (ALT 1 - 30, 25 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 45 EQUIPPED 49 51 T-P3/L3 53	(FIELD 10) (OA/#6) (FIELD 9) (OA/#10) (FIELD 9)	3,757	3,757	3,757	8	20				8		3,757		POLE A8 (FIELD 9)	4
7 9 POLE A5 (F 11 (ALT 1 - 30) 13 15 POLE A9 (F 17 (ALT 1 - 30) 19 21 POLE A10 (ALT 1 - 30) 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 51 T-P3 / L3 53	(FIELD 10) 0A/#6) (FIELD 9) 0A/#10)	3,757	3,757	3,757			3	3	20					1. 0 = = (= = = 0)	
9 POLE A5 (F 11 (ALT 1 - 30, 13 15 POLE A9 (F 17 (ALT 1 - 30, 19 21 POLE A10 (ALT 1 - 30, 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 44 SPARE 45 EQUIPPED 49 51 T-P3 / L3 53 17 P3 / L3 17 P3 / L3	0A/#6) (FIELD 9) 0A/#10) D (FIELD 9)	3,757	3,757	·			3	3	20				3,757	(ALT 1 - 30A / #6)	6
11 (ALT 1 - 30, 13 15 POLE A9 (F 17 (ALT 1 - 30, 19 21 POLE A10, 23 (ALT 1 - 30, 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 43 SPARE 45 EQUIPPED 49 51 T-P3 / L3 53	0A/#6) (FIELD 9) 0A/#10) D (FIELD 9)	,	3,757	·			3	3	20		3,757				8
13 POLE A9 (F (ALT 1 - 30)) 19 POLE A10 (ALT 1 - 30) 21 POLE A10 (ALT 1 - 30) 25 PARE 29 SPARE 29 31 POLE P16 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 FILE 49 FILE 51 T-P3 / L3	(FIELD 9) 0A/#10) D (FIELD 9)	,	,	·	12				20	6		3,757		POLE A7 (FIELD 10)	10
15 POLE A9 (F 17 (ALT 1 - 30) 19 21 POLE A10 (ALT 1 - 30) 23 (ALT 1 - 30) 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 44 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3 / L3	0A/#10) D (FIELD 9)	,	,	3,757	12								3,757	(ALT 1 - 30A / #6)	12
17 (ALT 1 - 30) 19 21 POLE A10 0 23 (ALT 1 - 30) 25 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 44 SPARE 45 EQUIPPED 49 51 T-P3 / L3	0A/#10) D (FIELD 9)	3,757	,	3,757	12		T				7,514				14
19 POLE A10 (ALT 1 - 30) 25 SPARE 29 31 SPARE 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 T-P3 / L3 53	D (FIELD 9)	3,757	3,757	3,757	1	20	3	3	40	6		7,514		POLE A14 (FIELD 8/10)	16
19 POLE A10 (ALT 1 - 30) 25 SPARE 29 31 SPARE 35 (ALT 1 - 40) 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 T-P3 / L3 53	D (FIELD 9)	3,757	3,757										7,514	(ALT 1 - 60A / #4)	18
21 POLE A10 (23 (ALT 1 - 30) (ALT 1 - 30) (ALT 1 - 30) (ALT 1 - 40) (A			3,757								7,514		<u>, </u>	,	20
23 (ALT 1 - 30, 25) 27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3 / L3			J, J		12	20	3	3	40	8	.,	7,514		POLE A13 (FIELD 7/9)	22
25 SPARE 29 31 SPARE 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3	····,			3,757	۱ - ا					-		.,	7,514	(ALT 1 - 60A / #6)	24
27 SPARE 29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3				0,7 07									1,011	[(26
29 31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 49 51 T-P3/L3						30	3	3	30					SPARE	28
31 33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3					٠	50	Ĭ	٦	30						30
33 POLE P16 35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3		4,562			_		\dashv				3,757				32
35 (ALT 1 - 40, 37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3	s (FIELD 6)	4,302	4,562		10	25	3	3	20	10	3,737	3,757		 POLE A11 (FIELD 7)	34
37 POLE SIGN 39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3	•		4,302	4,562	┨ '゚	23		5	20	'0		3,737	3,757	(ALT 1 - 30A / #10)	36
39 SPARE 41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3		1 200		4,302	10	20		2	20	10	1 200		3,131	PARKING LOT LTG - SOUTH	38
41 SPARE 43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3	SNO ACCESSOR I	1,200			10	20	1	2	20	10	1,200	4 200		PARKING LOTE IG - SOUTH	
43 SPARE 45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3					-	20		4				1,200		EOLUBDED CDAOE	40
45 EQUIPPED 47 EQUIPPED 49 51 T-P3/L3					-	20	1							EQUIPPED SPACE	42
47 EQUIPPED 49 51 T-P3 / L3 53	D CDACE				_	20	-	1						EQUIPPED SPACE	44
49 51 T-P3 / L3 53							1							EQUIPPED SPACE	46
51 T-P3 / L3	D SPACE				_		1	1						EQUIPPED SPACE	48
53										_				l	50
					OL	50	3	3	60	6				SPD	52
	CLIDTOTAL	00.700	10.500	10.500							07.100	07.400	00.000		54
	SUBTOTAL		19,590		_							27,499		SUBTOTAL	
TOTAL PH	HASE A - VA 48,289	LOAD		CONN.	<u> </u>	DF		LO.			C	ONN. VA	DF		
	AMPS 174	COOLING				1.00	ı ı		FRIG	(F)	*******************************		1.00		
TOTAL PH	HASE B - VA 47,089	HEATING	(H)			0	I I		N/DISP				1.25		
	AMPS 170	LIGHTING		141,267	, 	1.25	ı ı		CHEN	(K)			1.00		
TOTAL PHA	HASE C - VA 45,889	RECEPTA				1.0/.5	1 1		STING	(E)			1.00		_
	AMPS 166	MOTORS	(M)			1.00			G MOTO				1.25	TOTAL DEMAND	
TOTAL P		SUPP HEA				1.00	1 1		OW WI		***************************************		1.25	176,584 V	_
	PNLBD - VA 141,267	MISC EQU	JIP (Z)			1.00		LTC	3 TRAC	K			1.00	212 /	4
PANELBOARD N	AMPS 170														

BU MA VO	ANELBOARD: P3 (NE\ S AMPS: 225A IN SIZE/TYPE: 100A MCB LTS/PHASE: 208Y/120V, 3PH, 4W CTION: 1	AIC R SER\ MOUI	ROM: ATING ES: NTING ATION:	8: :: SL	JRF	OO FUI	T-P3 LLY RA	TED	LINE-SIDE LUGS: MECHANICAL DEQUIPMENT GROUND BUS NEMA 3F						
СК		VOL	ΓAMPS/PI	HASE		BKR				WIRE	VOL	ΓAMPS/PH	HASE	DESCRIPTION	СКТ
NC		А	В	С	NO.				AMP		Α	В	С		NO.
1	SPARE					20	1	1	20	10	360			PED - BREEZE F7	2
3	RCPT - POLE P16/A11		1,000		8	20	1	1	20	10		180		PED - RCPT F7 N	4
5	RCPT - POLE A7			1,000	3	20	1	1	20	10			180	PED - RCPT F7 S	6
7	RCPT - POLE A8	1,000		,	4	20	1	1	20	12	360			PED - BREEZE F9	8
9	RCPT - POLE A9	,	1,000		6	20	1	1	20	12		180		PED - RCPT F9 N	10
11	RCPT - POLE A10			1,000	10	20	1	1	20	12			180	PED - RCPT F9 S	12
13	RCPT - POLE A13	1,000			10	20	1	1	20	12	1,000			PWR - S GATE	14
15	RCPT - POLE A14		1,000		4	20	1	1	20	3		360		PED - BREEZE F10	16
17	RCPT - POLE A5		,	1,000	3	20	1	1	20	3			180	PED - RCPT F10 N	18
19	RCPT - POLE A6	1,000		,	2	20	1	1	20	3	180			PED - RCPT 10 S	20
21	SPARE	,				20	1	1	20	12		500		PWR - LTG CTRLS	22
23	RCPT-P3			180	12	20	1	1	20	12			750	PWR - SIGNAGE	24
25	SPARE					20	1	1	20					SPARE	26
27	7 SPARE					20	1	1	20					SPARE	28
29	SPARE					20	1	1	20					SPARE	30
31	SPARE					20	1	1	20					SPARE	32
33	SPARE					20	1	1	20					SPARE	34
35	SPARE					20	1	1	20					SPARE	36
37	7 SPARE					20	1	1	20					SPARE	38
39	SPARE					20	1	1	20					SPARE	40
41	SPARE					20	1	1	20					SPARE	42
	SUBTOTAL	3,000	3,000	3,180							1,900	1,220	1,290	SUBTOTAL	
匸	TOTAL PHASE A - VA 4,900	LOAD		CONN. \	/A	DF		LO.	AD I		С	ONN. VA	DF		
	AMPS 41	COOLING	COOLING (C)			1.00		REF	-RIG	(F)			1.00	1	
	TOTAL PHASE B - VA 4,220	HEATING	\ /			0		SIGN/DISP (D)				1.25			
	AMPS 35	LIGHTING	(L)			1.25		КП	CHEN	(K)			1.00		
	TOTAL PHASE C - VA 4,470	RECEPTA	CLES (R)	2,340		1.0/.5		EXI	STING	(E)			1.00		
	AMPS 37	MOTORS	(M)			1.00		LRO	S MOTO	OR			1.25	TOTAL DEMAND	
	TOTAL PNLBD - VA 13,590	SUPP HEA				1.00		SH	W WC	VD (W)			1.25	13,590	VA
	AMPS 38	MISC EQL	IP (Z)	11,250		1.00		LTO	TRAC	Ж			1.00	3	8 A
PA	NELBOARD NOTES LCK - HANDLE PADLOCKABLE- GR - PROVIDE GROUND SIZE IN														

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Depart Lee's Summit, Missouri 08/11/2022

CIVIL ENGINEERING

9801 Renner Boulevard Lenexa, KS 66219 913.492.0400

LAND3 Studio, LLC 317 SE Main Lee's Summit, MO 64063 www.land3studio.com

www.gbateam.com MO Certificate of Authority # 000133

LANDSCAPE ARCHITECTURE

MO Certificate of Authority # 2008001860 LANDSCAPE ARCHITECTURE

MO Certificate of Authority #2019004088

www.hei-eng.com Missouri Certificate of Authority # 000556

FINKLE + WILLIAMS Architecture 8787 Renner Boulevard, Suite 100

Missouri Certificate of Authority #F00453304

. Complex

1401 NW View H

HENDERSON ENGINEERS, Inc.

2100 Central Street, Suite 01C Kansas City, MO 64108 816.510.0438 www.hoerrschaudt.com

MEP ENGINEERING

8345 Lenexa Drive Lenexa, KS 66214 913.742.5000

ARCHITECTURE

Lenexa, KS 66219 913.498.1550 www.finklewilliams.com

PROJECT:

Hoerr Schaudt Landscape Architects

JOB NO: 1197 SCALE: N/A DATE: 02.16.2022 DRAWN BY: MAP

ELECTRICAL

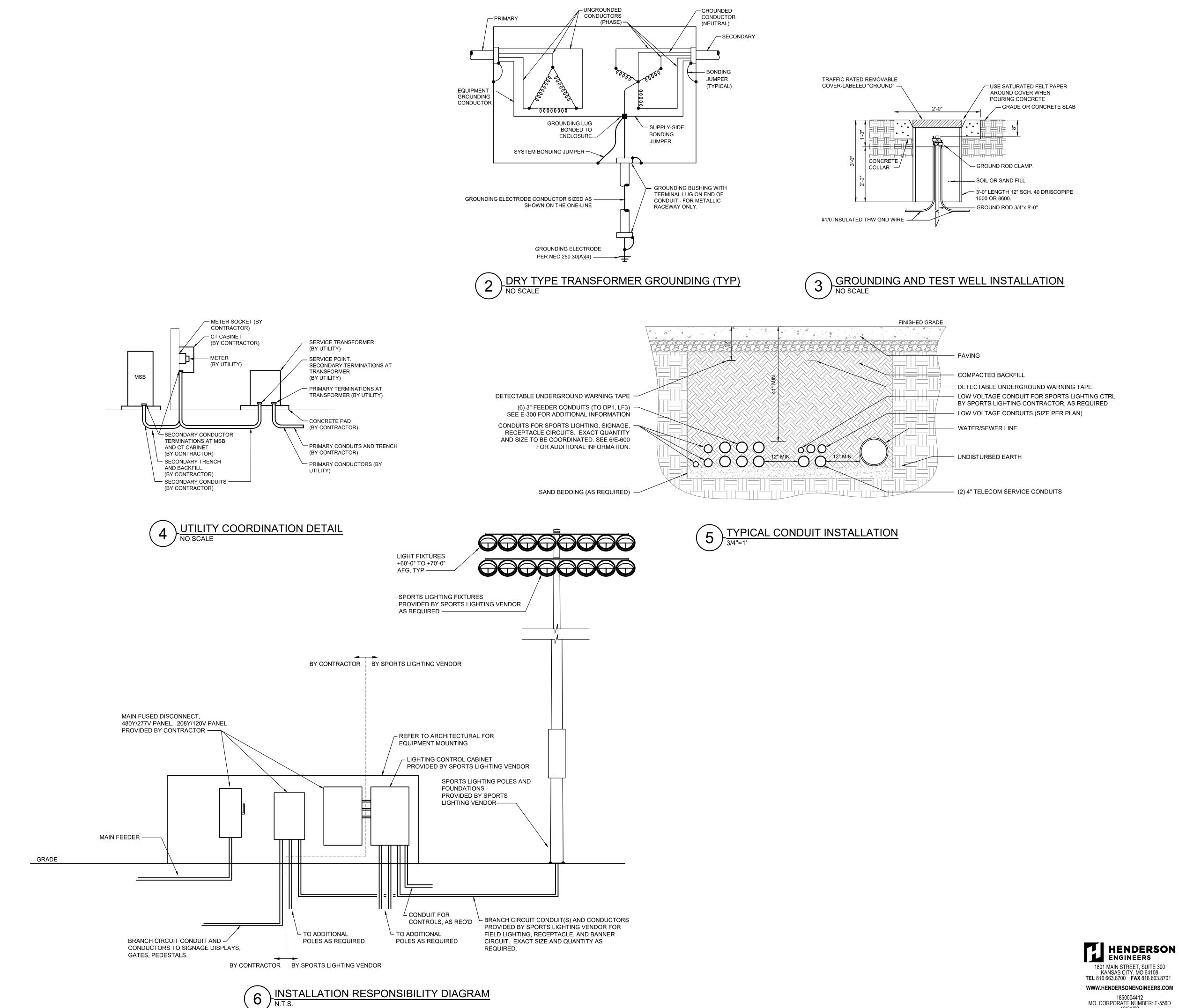
SCHEDULES

HENDERSON ENGINEERS

1801 MAIN STREET, SUITE 300 KANSAS CITY, MO 64108 TEL 816.663.8700 FAX 816.663.8701

WWW.HENDERSONENGINEERS.COM

1850004412 MO. CORPORATE NUMBER: E-556D 12/31/22



CONSTRUCTION As Noted on Plans Review elopment Services Depa Lee's Summit, Missou

RELEASED FOR

CIVIL ENGINEERING 9801 Renner Boulevard Lenexa, KS 66219

913.492.0400 www.gbateam.com

MO Certificate of Authority # 000133 LANDSCAPE ARCHITECTURE

LAND3 Studio, LLC 317 SE Main Lee's Summit, MO 64063 www.land3studio.com MO Certificate of Authority # 2008001860 LANDSCAPE ARCHITECTURE

Hoerr Schaudt Landscape Architects 2100 Central Street, Suite 01C Kansas City, MO 64108 816.510.0438

www.hoerrschaudt.com MO Certificate of Authority #2019004088 MEP ENGINEERING HENDERSON ENGINEERS, Inc. 8345 Lenexa Drive

Lenexa, KS 66214 913.742.5000 www.hei-eng.com Missouri Certificate of Authority # 000556 ARCHITECTURE FINKLE + WILLIAMS Architecture

8787 Renner Boulevard, Suite 100 Lenexa, KS 66219 913.498.1550 www.finklewilliams.com Missouri Certificate of Authority #F00453304

PROJECT:

Improvements

64 MO

omplex

1401

PE-2013039892

LICENSE # PE-2013039892

ELECTRICAL DETAILS

MO. CORPORATE NUMBER: E-556D 12/31/22

JOB NO: 1197 SCALE: N/A DATE: 02.16.2022 DRAWN BY: MAP

SHEET NO: