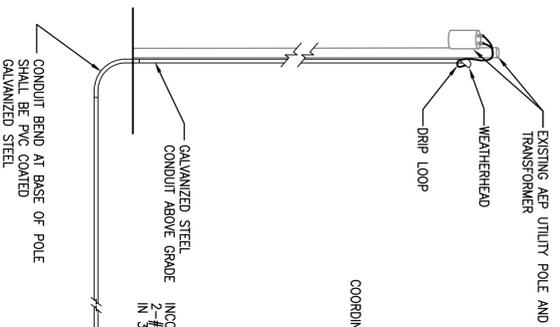
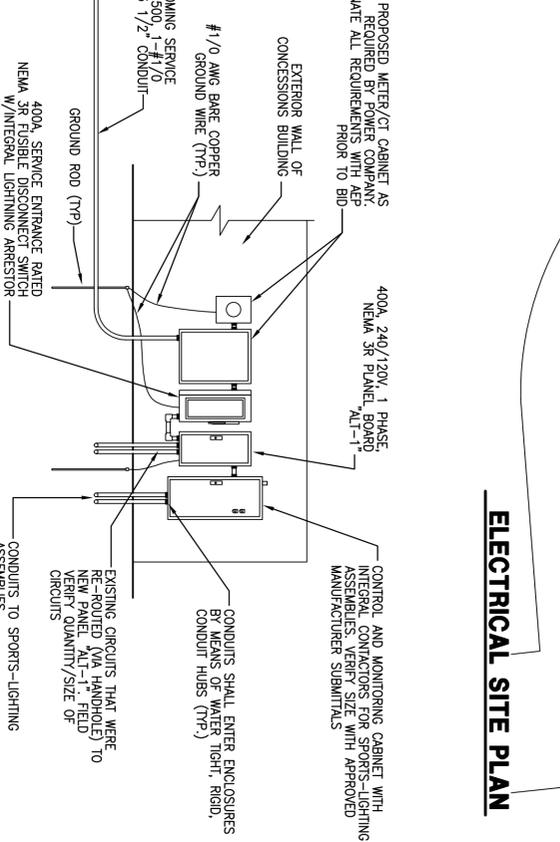


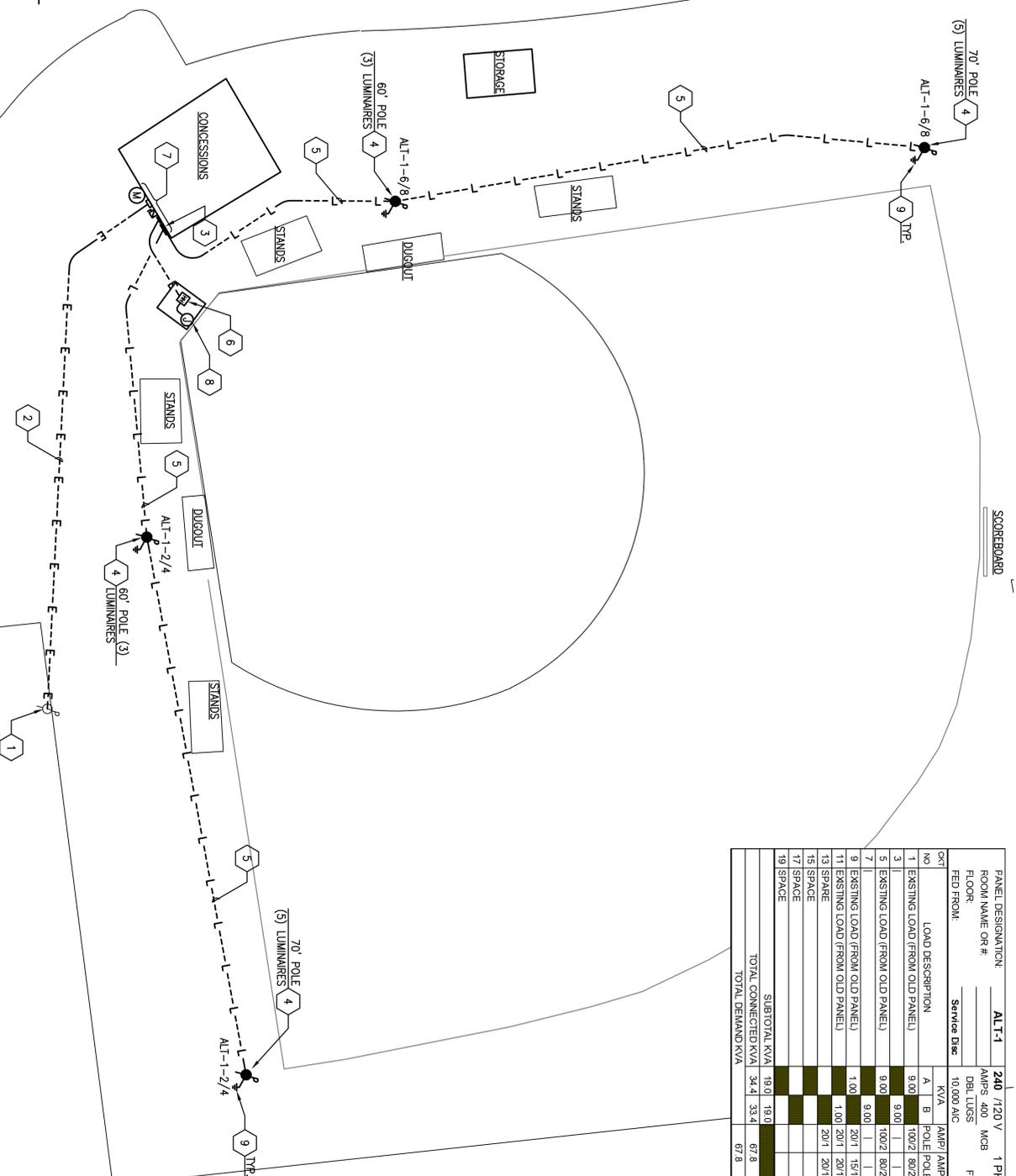
**1** SPORTS LIGHTING ASSEMBLY  
GRAPHICAL EXAMPLE  
SCALE: NTS



**2** EQUIPMENT MOUNTING DETAIL  
SCALE: NTS



**ELECTRICAL SITE PLAN**



**SCOREBOARD**

PANEL DESIGNATION: ALT-1		240	1/20 V	1 PH 3 WIRE	SURFACE MTD	
ROOM NAME OR #		AMPS 400	MCB	MLO	FLUSH MTD	
FLOOR:		DBL LUGS	FT LUGS		NEMA TYPE ENCLOSURE 3R	
FED FROM:		Service Bus	10,000 AIC			
NO	LOAD DESCRIPTION	KVA	AMP/AMPI	KVA	LOAD DESCRIPTION	
1	EXISTING LOAD (FROM OLD PANEL)	9.00	100/2	80/2	7.20	NEW SPORTS LG ASSEMBLIES EAST
2	EXISTING LOAD (FROM OLD PANEL)	9.00	100/2	80/2	7.20	NEW SPORTS LG ASSEMBLIES WEST
3	EXISTING LOAD (FROM OLD PANEL)	8.00	100/2	80/2	7.20	NEW SPORTS LG ASSEMBLIES WEST
7	EXISTING LOAD (FROM OLD PANEL)	9.00	100/2	80/2	7.20	NEW SPORTS LG ASSEMBLIES WEST
9	EXISTING LOAD (FROM OLD PANEL)	1.00	20/1	15/1	1.00	EXISTING LOAD (FROM OLD PANEL)
11	EXISTING LOAD (FROM OLD PANEL)	1.00	20/1	20/1	SPARE	SPARE
13	SPARE	1.00	20/1	20/1	SPARE	SPARE
15	SPARE				SPARE	SPARE
17	SPARE				SPARE	SPARE
19	SPARE				SPARE	SPARE
SUBTOTAL KVA		18.0	19.0	15.4	14.4	SUBTOTAL KVA
TOTAL CONNECTED KVA		34.4	33.4	67.8		TOTAL CONNECTED KVA
TOTAL DEMAND KVA				67.8		TOTAL DEMAND AMPS
						282.5

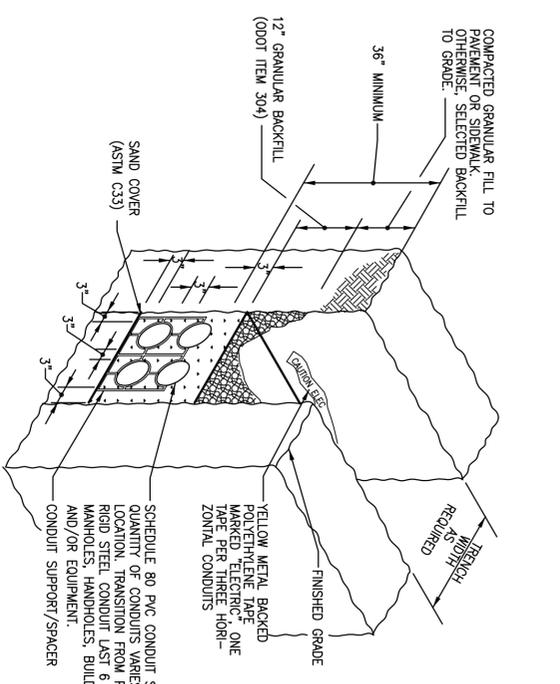
**GENERAL NOTES:**

- EXISTING AEP POWER SERVICE TO FACILITY IS 240V, 1Ø, COORDINATE ALL REQUIRED WORK WITH AEP PRIOR TO BID.
- COORDINATE LOCATION OF NEW SPORTS-LIGHTING ASSEMBLIES WITH APPROVED SUBMITTAL. THIS SUBMITTAL SHALL GIVE EXACT LOCATIONS/DIMENSIONS OF ALL EQUIPMENT.
- BASE OF DESIGN IS MUSCO LIGHTING. LUMINAIRES AND QUANTITIES ARE BASED OFF OF MUSCO PROPOSALS AND LIGHTING CALCULATIONS WITH A REDUCED FOOT CANDLE REQUIREMENT. QUANTITIES IS TO BE PROVIDED IN QUANTITIES OF SPORTS-LIGHTING ASSEMBLIES AND NUMBER OF LUMINAIRES MIGHT VARY. THE CONTRACTOR SHALL HAVE ANY ALTERNATE MANUFACTURERS PROVIDE A DETAILED LAYOUT WITH POINT BY POINT LIGHTING CALCULATIONS TO SHOW THAT THE CALCULATIONS MEET/EXCEEDS LITTLE LEAGUE, CAL RIFKEN/BRE RUTH, POY, LEGION, ASA, USSA AND OTHER SIMILAR SPORTS LIGHTING STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF FOUNDATIONS, CONCRETE BACKFILL, POLES, LIGHTING EQUIPMENT AND UNDERGROUND WIRING TO SPORTS-LIGHTING ASSEMBLIES. COORDINATE EXACT INSTALLATION AND WIRING REQUIREMENTS WITH MANUFACTURER PRIOR TO BID.
- CONTRACTOR IS RESPONSIBLE TO PERFORM A FIELD VISIT, PRIOR TO BID, TO VERIFY EXTENT OF WORK INSIDE OR NEARLY CONSTRUCTED FOUNDATIONS AND TO VERIFY EXISTING UNDERGROUND SERVICES. SPORTS LIGHTING SHALL EXTEND ANY EXISTING SERVICES THAT LIGHT AND CURRENTLY BE SHOWN ON THESE PLANS. THIS BOOTH WAS STILL UNDER CONSTRUCTION DURING THE ENGINEERS SITE VISITS.

**CODED NOTES:**

- EXISTING AEP UTILITY POLE WITH POLE MOUNTED TRANSFORMER.
- NEW UNDERGROUND SERVICE CONDUCTORS FROM EXISTING AEP POLE/TRANSFORMER.
- NEW CONTROL AND MONITORING CABINET FOR THE SPORTS-LIGHTING ASSEMBLIES. CABINET INCLUDES, BUT NOT LIMITED TO, 2-CONTACTORS, 2 KEVED SELECTOR SWITCHES MOUNTED TO EXTERIOR OF DOOR, GROUND BAR, COMMUNICATION MODEM WITH DIGITAL CELLULAR TECHNOLOGY, MONITORING MODULE AND CONTROL WIRING. REFER TO LIGHTING CONTROL SYSTEM SPEC ON SHEET EL-1.
- NEW PROPOSED SPORTS-LIGHTING ASSEMBLY. ASSEMBLY SHALL BE COMPLETE WITH PRECAST BASE, GALVANIZED STEEL POLE, POLE MID ELECTRIC COMPONENT ENCLOSURE, WIRING, POLETOP LUMINAIRE ASSEMBLY WITH 1500W METAL HALIDE LUMINAIRES. QUANTITY OF LUMINAIRES/POLE ARE SHOWN ON PLANS. ASSEMBLY SHALL BE EQUAL TO OSOR, RIGHT TO BUY SHEET FOR APPROVED EQUAL, REFER TO BUY SHEET FOR QUANTITY OF LUMINAIRES PER ASSEMBLY.
- PROVIDE 2Ø3 #4 GND IN 1 1/2" CONDUIT FROM NEW CONTROL AND MONITORING CABINET TO THE SPORTS-LIGHTING ASSEMBLIES. CONDUIT SHALL BE DIRECT BURIED.
- INTERCEPT ALL EXISTING UNDERGROUND AND ABOVE GROUND CONDUITS/CIRCUITS CURRENTLY BEING FED OUT OF THE 240V, 1Ø PANEL BOARD SCHEDULED TO BE DEMOLISHED WITH A NEW HANDHOLE. PROVIDE NEW CONDUITS AND CONDUCTORS FROM HANDHOLE OVER TO NEW PANEL BOARD. ALT-1" TYPES OF CONDUIT/CONDUCTORS SHALL MATCH EXISTING UNLESS NOTED OTHERWISE. REFER TO EXISTING PANEL BOARD SCHEDULE ON SHEET ED-1 FOR QUANTITY AND SIZE OF BRANCH CIRCUITS. PROVIDE WEATHERPROOF SPLICES INSIDE HANDHOLE AS REQUIRED. HANDHOLE SHALL BE OPEN BOTTOMED, WITH 18" DIA. 1/2" STAINLESS EXTENSION SECTIONS SET REQUIRED. STAINLESS EXTENSION SHALL BE REQUIRED. STAINLESS EXTENSION BE QUALITY OR PENCELL WITH HEAVY DUTY STEEL COVER MARKED "ELECTRIC" COORDINATE ALL DOWNLINE WITH THE CITY PRIOR TO ANY WORK BEING REPERFORMED.
- NEW AEP METER/CT CABINET, SERVICE RATED DISCONNECT SWITCH, PANEL BOARD AND CONTROL AND MONITORING CABINET FOR THE SPORTS-LIGHTING ASSEMBLIES SHALL BE MOUNTED TO EXTERIOR WALL OF EXISTING CONCESSIONS TO BUILDING. COORDINATE FINAL LOCATION OF ELECTRICAL EQUIPMENT WITH THE CITY PRIOR TO ANY WORK. REFER TO DETAIL ON THIS SHEET SHOWING MOUNTING OF NEW EQUIPMENT. ALL EQUIPMENT SHALL HAVE A MINIMUM NEMA 3R RATING.
- PROVIDE A WALL MOUNTED JUNCTION BOX MOUNTED TO INSIDE OF HANDOVERS BOOTH TO INTERCEPT EXISTING ROMER CABLES. PROVIDE NEW CONDUIT FROM THIS ALL CONDUIT FROM NEW HANDHOLE PROVIDE NEW SPLICES INSIDE JUNCTION BOX. EXACT QUANTITIES MUST BE FIELD VERIFIED.
- EACH SPORTS LIGHTING ASSEMBLY SHALL BE CONNECTED TO A GROUND ROD.

**3** DIRECT BURIED CONDUIT DETAIL  
SCALE: NTS



ISSUED FOR BIDDING	DATE	BY
ADDENDUM REVISIONS	ADDENDUM NO	ADDENDUM DATE
ISSUED FOR CONSTRUCTION	DATE	BY
REVISIONS	DESCRIPTION	
NO	DESCRIPTION	
RECORD DRAWINGS	DATE	BY

DRAWN: KAP DATE: 10/21/14  
CHECKED: KAP JOB NO: 14578385  
SCALE: 1" = 20'-0"

**ELECTRICAL SITE PLAN**

CITY OF HILLIARD, OHIO  
ALT FIELD LIGHTING REPLACEMENT  
CIP LB-5

**URS**

**4 / 4**

HP-879