ADDENDUM #1
11/17/2025

To the drawings and specifications for:

ALL BID PACKAGES
for the
Etna High Point Park Site Improvements Project
For Etna Township

PROJECT c24232

TO ALL BIDDERS OF RECORD:

This Addendum supplements and amends the original Drawings and Project Manual, dated **10/23/2025**, and shall be considered in preparing bids and shall become a part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid form. Failure to do so may subject Bidder to disqualification.

CHANGES TO PROCUREMENT AND CONTRACTING REQUIREMENTS

EXTENSION OF BID DUE DATE

A. 25-1023_BID_DOCUMENTS_Etna High Point Park_Site Improvements-FINAL:

a. Sealed proposals for "Construction of Etna High Point Park Site Improvements Project" will be received by the Etna Board of Trustees, c/o Jackie Cotugno, fiscal@etnatownship.com , Fiscal Officer for Etna Township at 81 Liberty Street, Etna, OH 43018, until **Monday, November 24th, 2025**, at 3:00 PM. Bids may be submitted in either hard copy form or electronically by email in a single PDF file format (10mb max file size).

PLAN HOLDERS & PRE-BID MEETING ATTENDEES

A. PLAN HOLDERS – list to date is attached

B. PRE-BID MEETING ATTENDEES – list is attached

CLARIFATIONS

A. The electrical contractor will obtain the electrical permit through Liking County Building Department

B. Direct bore method is acceptable for conduit installation provided you do not impact tree roots. Ensure routing follows plans to stay outside tree drip lines.

CHANGES TO DRAWINGS

C. SHEET L4.02:

a. Updated the board dimensions on detail 3/ L4.02 to 1"x8" and 1"x6"

b. Updated the board dimensions on detail 4/ L4.02 to 1"x8" and 1"x6"

D. SHEET E0.01:

a. Updated luminaire schedule as shown per RFI responses.

E. SHEET E2.01:

a. Revised coded notes on branch circuit home-runs throughout the site to clarify which lighting contactor circuits should extend through.

b. Revised general and coded notes to change Milbank enclosure to generic specification of products in a pad-mounted weatherproof enclosure and define all elements to be installed within that enclosure.

c. Revised general and coded notes to clarify contactors for controls.

F. SHEET E7.01:

a. Revised Detail 1 to change from Milbank enclosure/components to generic enclosure with clarification of equipment to be installed within.

b. Revised detail 3 to move on page and to revise height to match E2.01.

c. Revised details 4 & 5 to move on page and to define the diameter of the concrete bases.

d. Added One Line diagram as shown for clarification.

G. SHEET E8.01:

a. 26 00 15 D – revised manufacturers per long lead time for Milbank enclosures.

b. 26 09 23 – added specification section for lighting contactors, timeclocks, and photocells.

c. 26 24 20 H – Revised description to be generic and remove Milbank reference per long lead time for Milbank enclosures.

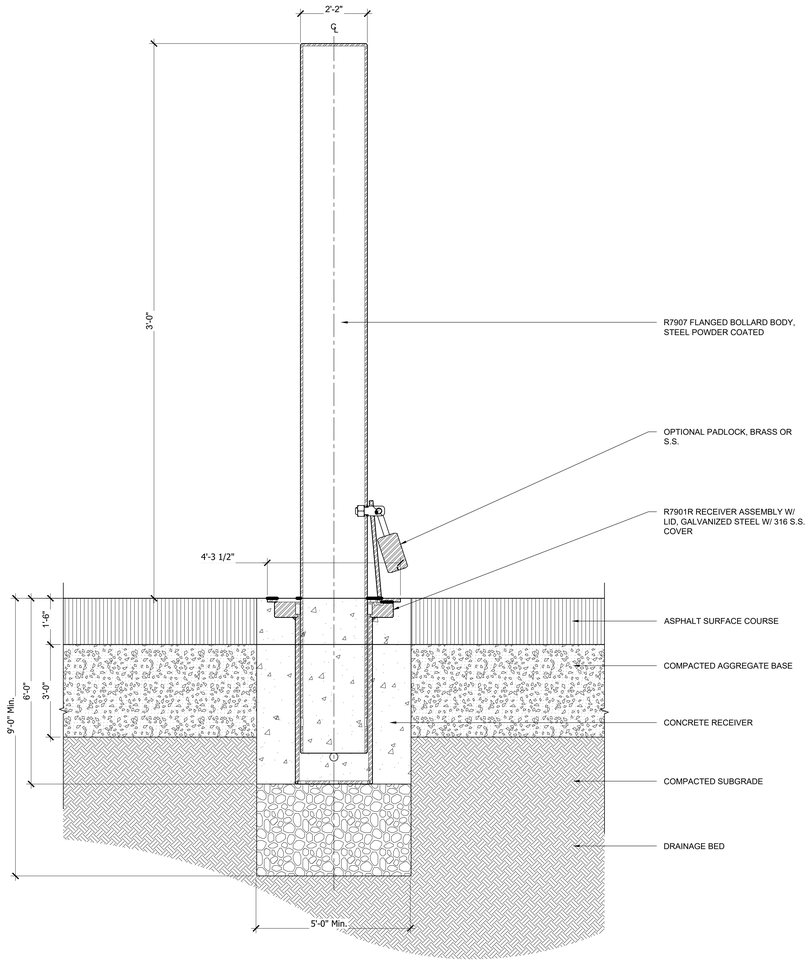
ATTACHMENTS

A. L4.02, E0.01, E2.01, E7.01, E8.01

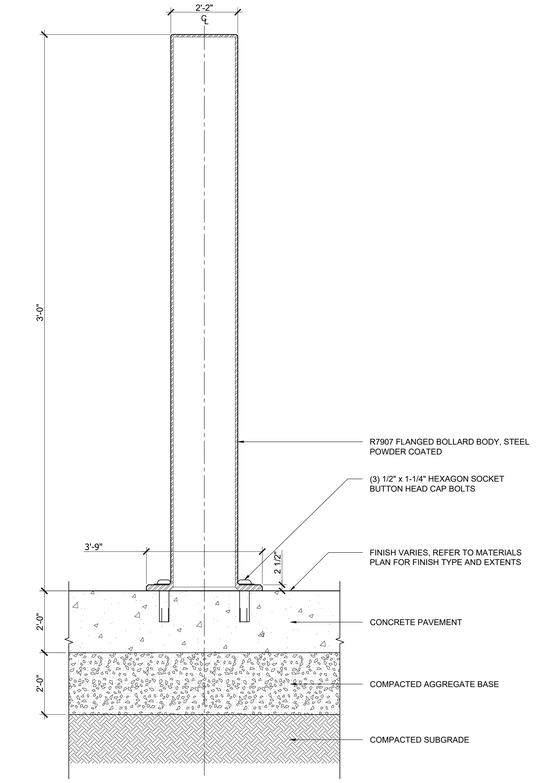
B. PLAN HOLDERS

C. PRE-BID MEETING ATTENDEES

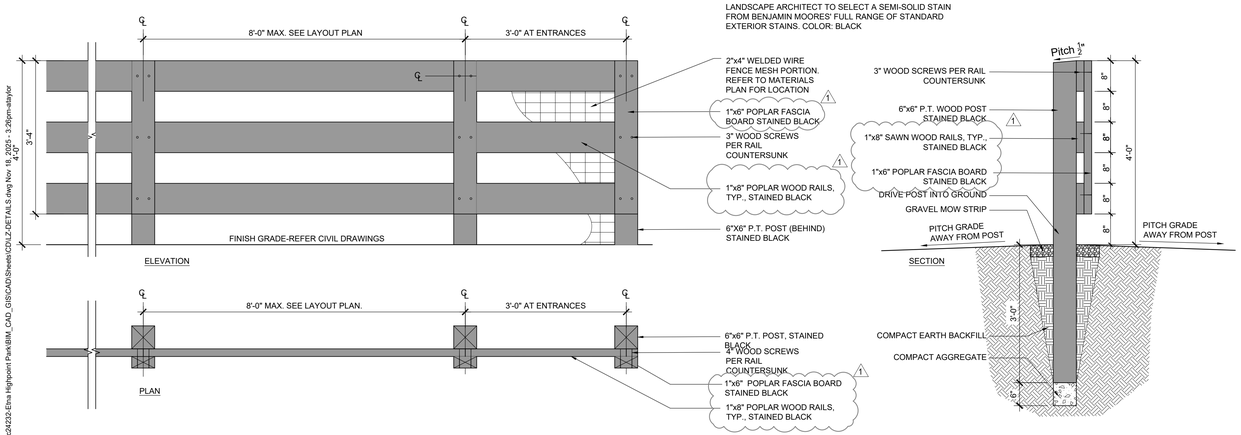
END OF ADDENDUM #1



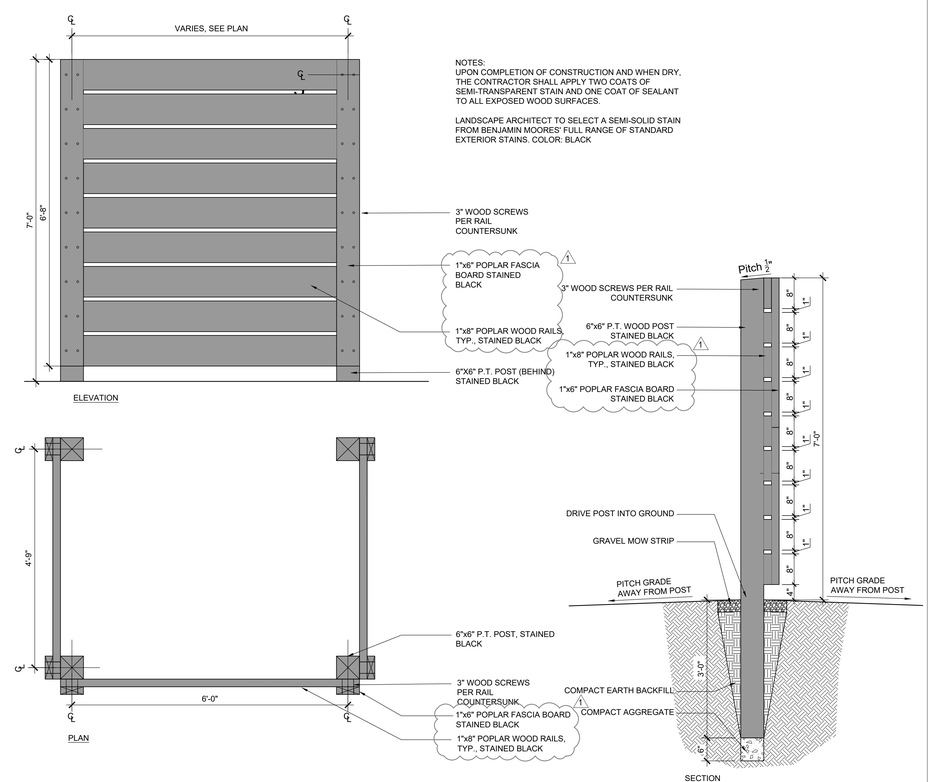
1 BOLLARD (BD1)
SCALE: NTS



2 BOLLARD (BD2)
SCALE: NTS



3 THREE-RAIL FENCE
SCALE: 3/4" = 1'-0"



4 RESTROOM SCREEN
SCALE: 3/4" = 1'-0"

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Landscape Architecture
Urban Design
Planning

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796 MKSKSTUDIOS.COM

client / owner
Etna Township

project name
ETNA HIGH POINT PARK - SITE IMPROVEMENTS

project address
950 Pike Street SW
Etna, Ohio
43018

consultant
KORDA
1650 Watermark Dr.
Columbus, Ohio, 43215
p 614.487.1650

BID DOCUMENTS

revision	date	issued
1	11.17.2025	ADDENDUM 1

seal
STATE OF OHIO
TIMOTHY S. SCHMALENBERGER
621
REGISTERED
LANDSCAPE ARCHITECT

issue date 10.23.2025
project number c24232

sheet name
DETAILS

sheet number
L4.02

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
R1 / R1 / R1	LUMINAIRE: TYPE "R1"; SEE LUMINAIRE SCHEDULE	----
R2 W2 W2	CEILING OR WALL MOUNTED LUMINAIRE TYPE "R2", "W2"; SEE LUMINAIRE SCHEDULE	SEE DRAWINGS
P1 B1	SITE LUMINAIRE (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE)	----
S^X	LINE VOLTAGE SWITCH 2 - 2-POLE P - SWITCH WITH PILOT LIGHT TM - SWITCH WITH TIMER LT - LOW TEMPERATURE OPERATION. -4° F.	46"
PC	PHOTOCELL SENSOR	CEILING

POWER SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	SIMPLEX RECEPTACLE; DUPLEX RECEPTACLE; QUADRUPLEX (DOUBLE DUPLEX) RECEPTACLE	18"
WP	DUPLEX RECEPTACLE; QUADRUPLEX RECEPTACLE GROUND FAULT INTERRUPTER	46"
WP	WEATHERPROOF GFCI DEVICE WITH WEATHERPROOF IN-USE COVER	24"
J	JUNCTION BOX, CEILING OR WALL MOUNTED	SEE DRAWINGS
S	TOGGLE DISCONNECT SWITCH	46"
60/45/3 3R, NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF" DENOTES NONFUSED	60"
	PUSHBUTTON STATION	46"
CP	CONTROL PANEL	SEE DRAWINGS
P1 P1	PANELBOARD; SURFACE MOUNTED, FLUSH MOUNTED PANEL DESIGNATION AS SHOWN	72"
	CONDUIT, RISER UP	----
	CONDUIT, RISER DOWN	----
	CONDUIT ROUTED UNDER FLOORSPACE OR UNDERGROUND	----
	HOME RUN BRANCH CIRCUIT (OVERHEAD)	----
	HOME RUN BRANCH CIRCUIT (UNDERFLOOR)	----
	FLEXIBLE CONDUIT OR CABLE	----
T1	TRANSFORMER; (SIZE AS NOTED OR IN TRANSFORMER SCHEDULE)	SEE DRAWINGS
PS	POWER SUPPLY	----

POWER GENERAL NOTES
APPLIES TO EACH POWER DRAWING

1. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN THIS CONTRACT.
2. COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER CONSTRUCTION TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET MOUNTING HEIGHTS.
4. ALL DEVICES SHOWN ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE. ALL WEATHERPROOF RECEPTACLES HAVE WHILE-IN-USE COVERS UNLESS NOTED OTHERWISE
5. PROVIDE ALL FINAL POWER CONNECTIONS TO EQUIPMENT. PROVIDE ALL CONDUIT, DEVICE BOXES, AND CONTROL WIRING TO EQUIPMENT UNLESS NOTED OTHERWISE.
6. RACEWAY SHALL RUN AS INCONSPICUOUSLY AS POSSIBLE. VERTICAL RUNS SHALL OCCUR IN CORNERS OF STRUCTURE.
7. CIRCUIT NUMBER INDICATED WITH "GF" IS A CIRCUIT PROTECTED BY GROUND FAULT INTERRUPTING CIRCUIT BREAKER.
8. PROVIDE "TAMPER RESISTANT" DEVICES IN ANY OUTDOOR AREAS.
9. GFCI DEVICES SHALL BE LOCATED SO THEY ARE CONSIDERED "ACCESSIBLE". PROVIDE GFCI TYPE CIRCUIT BREAKERS OTHERWISE.

LIGHTING GENERAL NOTES
APPLIES TO EACH LIGHTING DRAWING

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF LUMINAIRES. COORDINATE WITH OTHER TRADES CONTRACTORS, IN ADVANCE OF INSTALLATION.
2. REFER TO ARCHITECTURAL ELEVATIONS, AND DETAILS, ELECTRICAL DETAILS, AND LUMINAIRE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHTS AND ADDITIONAL INSTALLATION INFORMATION.
3. INSTALL DRIVER FOR LUMINAIRES PROVIDED WITH REMOTE DRIVERS, AS SHOWN ON PLANS.
4. PROVIDE STEEL BRIDGING BETWEEN PURLINS/JOISTS/BEAMS AS NECESSARY TO SUPPORT THE WEIGHT OF SUSPENDED LUMINAIRES.

DEMOLITION GENERAL NOTES
APPLIES TO EACH DEMOLITION DRAWING

1. TURN OVER ANY SALVAGEABLE EQUIPMENT.
2. COORDINATE EXACT EXTENT OF DEMOLITION WITH ARCHITECTURAL DEMOLITION DRAWINGS.
3. COORDINATE PHASING OF DEMOLITION AND CONSTRUCTION PER DRAWINGS.
4. REMOVE ALL LIGHTING FIXTURES, DEVICES, OUTLETS, CONDUIT, CABLING, PANELS, AND EQUIPMENT WITHIN AREAS OF DEMOLITION. REMOVE WIRING AND CONDUIT BACK TO SOURCE OR LAST POINT OF CONNECTION TO REMAIN.
5. EXISTING EQUIPMENT OUTSIDE OF SCOPE OF WORK BOUNDARIES SHALL BE MAINTAINED. RECONNECT ANY CIRCUITS CUT PASSING THROUGH DEMOLITION AREAS.
6. REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK.
7. THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
8. WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
9. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
10. LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLAST OR OTHER EQUIPMENT CONTAINING PCBS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS.

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI DOCUMENT TD-2-4 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS
AF	ARC FLASH CIRCUIT INTERRUPTER DEVICE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
BRKR	BREAKER
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
Cu	COPPER
DISTR	DISTRIBUTION
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EVSE	ELECTRIC VEHICLE SERVICE EQUIPMENT (CHARGER)
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FUSE
FIXT	LIGHT FIXTURE
FLUOR	FLUORESCENT
FLR	FLOOR
FS	FUSIBLE SWITCH
G	GROUND
GRC	GALVANIZED RIGID CONDUIT
GF	GROUND FAULT INTERRUPTER DEVICE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
IT	INFORMATION TECHNOLOGY
J	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MTD	MOUNTED
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE FROM FINISH FLOOR UNLESS OTHERWISE NOTED.
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC OR O/C	ON CENTER
OH	OVERHEAD
P	POLE (PHASE)
PVC	POLYVINYL CHLORIDE
PNL	PANEL
Ø OR P	PHASE
SH	SHUNT TRIP
SW	SWITCH
TFMR	TRANSFORMER
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VIF	VERIFY IN FIELD
VC	VOLUME CONTROL
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
1/E.1	MEANS DETAIL No. 1, DRAWING SHEET "E1"

BRANCH CIRCUIT GENERAL NOTE

1. BRANCH CIRCUIT CONDUIT ROUTING IS NOT SHOWN ON THE PLANS AND LEFT TO THE DISCRETION OF THE CONTRACTOR. BRANCH CIRCUIT WIRE SIZE SHALL BE AS FOLLOWS BASED ON CONDUIT ROUTE LENGTHS. BEFORE WIRING INSTALLATION, VERIFY THAT THE FURTHEST DISTANCE FROM PANELBOARD TO OUTLET DOES NOT EXCEED THE FOLLOWING DISTANCE FOR WIRE SIZE SHOWN. INCREASE WIRE SIZE APPROPRIATELY FOR FARTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH
#12 AWG	100 FEET
#10 AWG	150 FEET
#8 AWG	250 FEET
#6 AWG	400 FEET

SYMBOL LIST GENERAL INFORMATION

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
3. STRAIGHT LINES BETWEEN DEVICES INDICATE CONTROLLED CIRCUIT.
4. DASHED SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED.
5. SOLID SYMBOLS WITH LIGHT LINEWEIGHT INDICATE EXISTING DEVICES TO REMAIN.
6. DASHED SYMBOLS WITH SUBSCRIPT "RL" INDICATE EXISTING DEVICES TO BE RELOCATED.
7. SOLID SYMBOLS WITH SUBSCRIPT "RD" INDICATE RELOCATED DEVICES.

DEVICE SUFFIXES

AC	ABOVE COUNTER OUTLET
C	CEILING MOUNTED OUTLET
F	FLOOR MOUNTED OUTLET
L	LINE VOLTAGE TYPE
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHER PROOF

SHEET LIST

SHEET NUMBER	SHEET NAME
E0.01	ELECTRICAL SYMBOLS AND LEGENDS
E1.01	ELECTRICAL SITE PLAN DEMOLITION
E2.01	ELECTRICAL SITE PLAN NEW WORK
E7.01	ELECTRICAL DETAILS
E8.01	ELECTRICAL SPECIFICATIONS

PANEL ID: P1 (NEW) — VOLTAGE: 240 / 120
LOCATION: NORTHEAST CORNER (MILBANK ENCLOSURE) — PHASE: 1
MOUNTING: SURFACE (WITHIN MILBANK ENCLOSURE) — WIRE: 3
MAIN TYPE: MAIN CIRCUIT BREAKER — MAIN SIZE: 200 AMPS
LEGEND: GF - GFCI TYPE CIRCUIT BREAKER
NOTES: RECONNECT EXISTING TO REMAIN BRANCH CIRCUITS TO NEW PANELBOARD WITH EXISTING CONDUCTORS. DISCONNECT SHALL BE SERVICE ENTRANCE RATED.

TOTAL LOAD (KVA)	GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CIRCUIT BREAKER SIZE/TYPE	CIRCUIT NUMBER	CIRCUIT BREAKER SIZE/TYPE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE	TOTAL LOAD (KVA)
0.04	10	10	LTG BOLLARDS	20/1	1 | 2	50/2,GF	FOOD TRUCK PWR PEDESTAL	6	10	4.00
0.54	10	10	REC SE	20/1	3 | 4		-	6	-	4.00
0.54	10	10	REC SW	20/1	5 | 6	50/2,GF	FOOD TRUCK PWR PEDESTAL	6	10	4.00
0.54	10	10	REC GAZEBO	20/1	7 | 8	-	-	6	-	4.00
0.01	12	12	LTG GAZEBO	20/1	9 | 10	20/1	SPARE			0.00
0.72	10	10	REC N	20/1	11 | 12	20/1	SPARE			0.00
0.36	12	12	LTG GAZEBO	20/1	13 | 14	20/1	SPARE			0.00
0.50			EXIST POLE LTG	20/1	15 | 16	20/1	SPARE			0.00
0.10			EXIST FLAG POLE LTG	20/1	17 | 18	20/1	SPARE			0.00
0.54			EXIST REC GAZEBO	20/1	19 | 20	20/1	SPARE			0.00
0.00			SPARE	20/1	21 | 22	20/1	SPARE			0.00
0.00			SPARE	20/1	23 | 24	20/1	SPARE			0.00
0.00			SPARE	20/1	25 | 26	20/1	SPARE			0.00
0.00			SPARE	20/1	27 | 28	20/1	SPARE			0.00
0.00			SPARE	20/1	29 | 30	20/1	SPARE			0.00
0.00			SPACE		31 | 32		SPACE			0.00
0.00			SPACE		33 | 34		SPACE			0.00
0.00			SPACE		35 | 36		SPACE			0.00
0.00			SPACE		37 | 38		SPACE			0.00
0.00			SPACE		39 | 40		SPACE			0.00
0.00			SPACE		41 | 42		SPACE			0.00

CONNECTED LOAD SUMMARY: LIGHTING: 1.6 KVA; RECEPTACLES & MISC.: 18.3 KVA; MOTOR: 0.0 KVA; HEATING: 0.0 KVA; TOTAL: 19.9 KVA
PANEL AMP SUMMARY: 75.4 PHASE A; 90.3 PHASE B

LUMINAIRE SCHEDULE

B: BOLLARD C: CEILING CV: COVE G: GROUND P: POLE R: RECESSED S: SUSPENDED T: TRACK UC: UNDERCABINET W: WALL X: UNIVERSAL

PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM THE MANUFACTURER'S AGENTS. ALL FIXTURES MAY NOT BE USED - REFER TO PLANS. DIMENSIONS MAY VARY. REFER TO THE SPECIFICATIONS SECTIONS 26 51 13 FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR FIXTURES CIRCUITED AND CONTROL.

TAG	MANUFACTURER	SERIES	DIMENSIONS (W x L x D)	DESCRIPTION	SOURCE	VOLTAGE	WATTAGE	COLOR TEMP	LUMENS	DIMMING	HOUSING	MOUNTING	LENS	FINISH/TRIM	DISTRIBUTION	OPTIONS	APPROVED MANUFACTURERS	SPARES
W1	1 LUMINII	BOSCA WET	0,6" X 5" X 0,6"	MICRO LINEAR	LED	UNV	6 W/FT	3500K	200 LM/FT	0-10V	EXTRUDED ALUMINUM	WALL	ACRYLIC	1 TBD (POWER COAT)	STANDARD	IP68 WET LOCATION RATED, FACTORY ASSEMBLED AND SEALED. PROVIDE AND LOCATE REMOTE DRIVERS PER MANUFACTURERS INSTRUCTIONS. INSTALL LUMINAIRE WITH SOURCE AIMED UP TOWARD CEILING.	LUMEN TRESS 1450 PROFILE ACOLYTE AS2-RB	0 SPARE FIXTURES
C2	PORTFOLIO	LERS4C	5-3/8" X 6" X 6"	4" CYLINDER	LED	UNV	11 W	3500K	1000 LM	0-10V	ALUMINUM	CEILING	OPEN	WHITE	FLOOD	WET LOCATION RATED	CSL 5" ROUND ENTITY CYLINDER FLUSH SPECTRUM LIGHTING CW0406PC	0 SPARE FIXTURES
B3	BEGA	1 77 219	6-1/4" X 27-1/2" X 9"	MINI-BOLLARD/ PATHWAY LIGHT	LED	UNV	8.5 W	3500K	350 LM	FIXED OUTPUT	ALUMINUM	GROUND MOUNT	ACRYLIC	TBD	ASYMMETIC/ TYPE 3	PROVIDE WITH LOW VOLTAGE MAGNETIC TRANSFORMER REQUIRED FOR OPERATION, PROVIDE WEATHERPROOF ENCLOSURE FOR TRANSFORMER. COORDINATE LOCATION WITH LANDSCAPE ARCHITECT.	LUMIERE EON 303 BOLLARD KUZCO EVANS 24" HEPER DRAGO SIDE 800MM	PROVIDE 1 SPARE COMPLETE FIXTURE

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consultant 1
KORDA
1650 Watermark Dr.
Columbus, Ohio, 43215
p 614.487.1650

100% CONSTRUCTION DOCUMENTATION

revision	date	issued
1	11.17.2025	ADDENDUM 1

seal
STATE OF OHIO — ROBERT R. JONES — E-84916 — REGISTERED PROFESSIONAL ENGINEER

issue date: 08.27.2025
project number: c24232

sheet name
ELECTRICAL SYMBOLS AND LEGENDS

sheet number
E0.01

KORDA
KORDA / NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Prarie S. Gallina
DESIGNED BY: Prarie S. Gallina
CHECKED BY: Prarie S. Gallina
PROJECT NUMBER: 2025-0513

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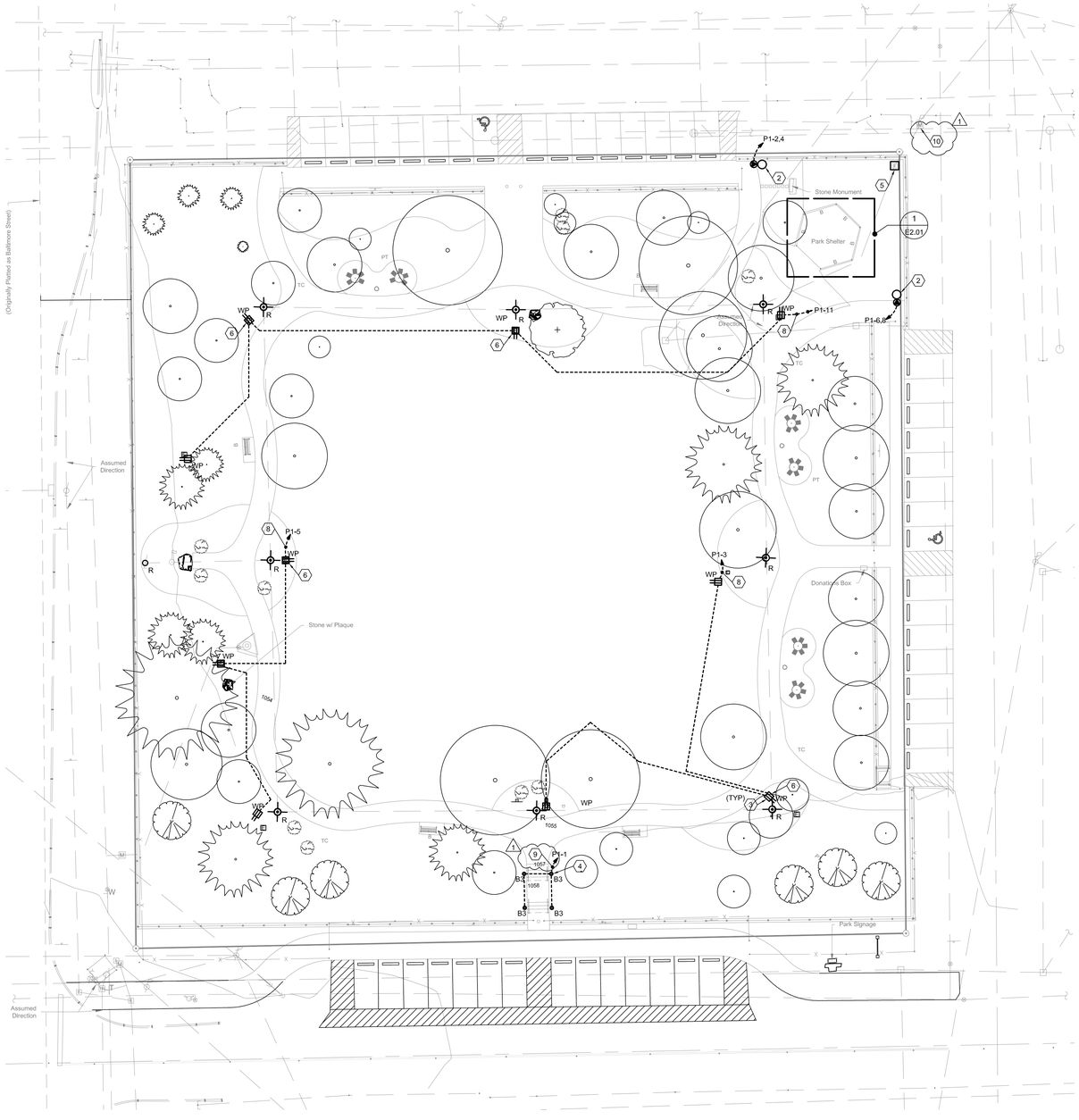

A SITE PLAN
NEW WORK

1" = 20'-0"
0' 10' 20'

2 ENLARGED PLAN
GAZEBO

1/4" = 1'-0"
0' 1' 2' 4'

GENERAL NOTES

1. ALL EXPOSED CONDUIT ROUTING SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT ~~PRIOR TO INSTALL~~.
2. ALL EXISTING BRANCH CIRCUITS ON SITE SHALL BE MAINTAINED AND RECONNECTED TO NEW PANELBOARD, THROUGH NEW LIGHTING CONTRACTORS FOR AUTOMATIC CONTROL OF EXISTING LIGHTING AND RECEPTACLE LOADS.
3. RECEPTACLE LOADS SHALL BE CONTROLLED BY LIGHTING CONTRACTOR LC1, AND LIGHTING LOADS SHALL BE CONTROLLED BY LIGHTING CONTRACTOR LC2.

CODED NOTES

1. PROVIDE NEW GCFI, WR, TR, DUPLEX RECEPTACLE WITH WP WHILE-IN-USE COVER MOUNTED IN EXISTING RECEPTACLE BOX. RECONNECT TO EXISTING BRANCH CIRCUIT.
2. PROVIDE POWER PEDESTAL MOUNTED ON CONCRETE BASE PER PEDESTAL DETAIL. PROVIDE 50A NEMA-TYPE RV RECEPTACLE WITH LOCKABLE, WP WHILE-IN-USE COVER. PEDESTAL TO BE 24" TALL, REFER TO DETAIL 4/E7.01, (BASIS OF DESIGN LEGRAND)
3. RECEPTACLE TO BE MOUNTED PER DETAIL 4/E7.01, (TYPICAL)
4. PROVIDE BOLLARD MOUNTING PER DETAIL 5/E7.01, (TYPICAL)
5. PROVIDE NEW ELECTRICAL EQUIPMENT ENCLOSURE PER DETAIL ON 1/E7.01, ENCLOSURE TO INCLUDE THE FOLLOWING:
   - NEW 30 CIRCUIT PANELBOARD (200A, 120/240 VOLT, 1 PHASE, MCB, SERVICE ENTRANCE RATED)
   - 2 LIGHTING CONTACTORS, LC1 & LC2. (EACH CONTACTOR SHALL HAVE 10 CONTACTS, 30A RATED)
   - 2 TIMECLOCKS
   - 1 PHOTOCELL
   - 1 WP GFCI RECEPTACLE
6. RECEPTACLE TO BE LOCATED 12" FROM EDGE OF PAVEMENT.
7. ALL EXPOSED CONDUIT AND JUNCTION BOXES ON GAZEBO SHALL BE PAINTED WHITE TO MATCH GAZEBO FINISH.
8. EXTEND CIRCUIT THROUGH LIGHTING CONTACTOR LC1 IN ELECTRICAL EQUIPMENT ENCLOSURE FOR TIME OF DAY CONTROL.
9. EXTEND CIRCUIT THROUGH LIGHTING CONTACTOR LC2 IN ELECTRICAL EQUIPMENT ENCLOSURE FOR TIME OF DAY CONTROL.
10. EXISTING ELECTRICAL UTILITY METER ON POLE, TO REMAIN.

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sheet name
ELECTRICAL SITE PLAN
NEW WORK

sheet number
E2.01

KORDA	
KORDA / NEMETH ENGINEERING	
WWW.KORDA.COM	
DRAWN BY:	Prarie S. Gallina
DESIGNED BY:	Prarie S. Gallina
CHECKED BY:	Prarie S. Gallina
PROJECT NUMBER:	2025-0513

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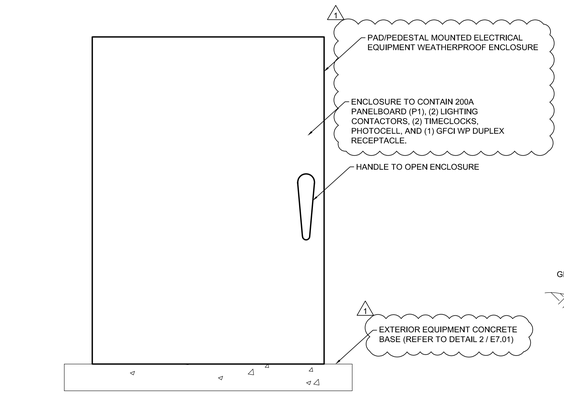
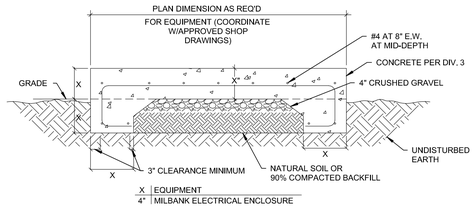


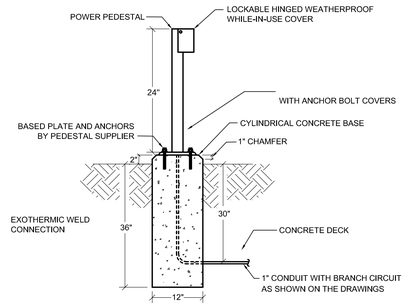
1 DETAIL
ELECTRICAL EQUIPMENT ENCLOSURE 1

N.T.S.



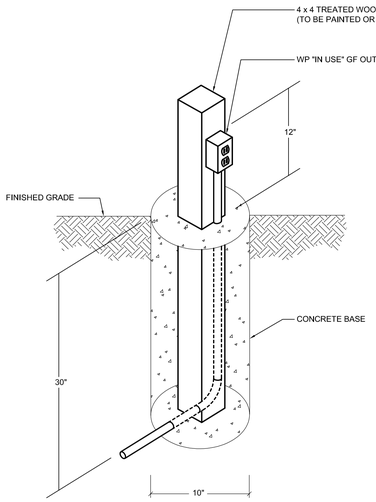
2 DETAIL
EXTERIOR ELECTRICAL EQUIPMENT CONCRETE BASE

N.T.S.



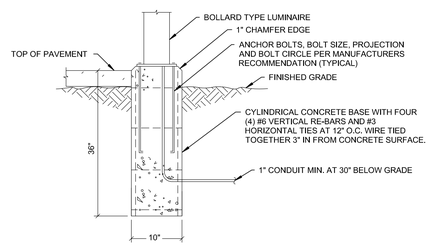
3 DETAIL
POWER PEDISTAL BASE DETAIL

N.T.S.



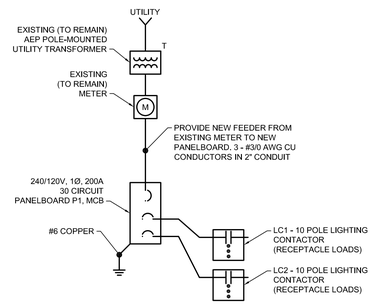
4 DETAIL
OUTLET MOUNTING

N.T.S.



5 DETAIL
BOLLARD BASE

N.T.S.



6 WIRING DIAGRAM
ONE LINE

N.T.S.

MKSK

Landscape Architecture
Urban Design
Planning

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796 MKSKSTUDIOS.COM

client / owner
Etna Township

project name
ETNA HIGH POINT PARK

project address
81 Liberty St. SW
Etna, Ohio
43018

consultant 1
KORDA
1650 Watermark Dr.
Columbus, Ohio, 43215
p 614.487.1650

100% CONSTRUCTION DOCUMENTATION

revision	date	issued
1	11.17.2025	ADDENDUM 1

seal

STATE OF OHIO
ROBERT R. JONES
E-84916
REGISTERED PROFESSIONAL ENGINEER

issue date 08.27.2025
project number c24232

sheet name
ELECTRICAL DETAILS

sheet number
E7.01

KORDA
KORDA | NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Prarie S. Gallina
DESIGNED BY: Prarie S. Gallina
CHECKED BY: Prarie S. Gallina
PROJECT NUMBER: 2025-0513

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26 00 00 DIVISION 26 - ELECTRICAL INTRODUCTORY STATEMENT

A. The requirements of Instructions to Bidders, General Conditions, and Division 1 apply to all work herein. The Work performed by the Division 26 Contractor shall conform to all provisions of Sections 26 00 00 through 26 99 99 as included in this Specification. The Division 26 Contractor is to consider the word "Contractor" when used in these Sections to mean himself/herself. C.The Division 26 Contractor must read the Specifications of all divisions therein because they will be responsible for Work described in other Sections where reference is made to "Electrical Contractor." All work included under this heading is subject to the Bidding Requirements, General Conditions and Division 1 General Requirements written for this entire Specification, whether attached to this Part or not, and the Contractor is notified to refer thereto as an integral part of the Work.

B. The Engineer's efforts under this Contract are aimed at designing a project which will be safe after full completion. The Engineer has no expertise in, and takes no responsibility for, construction means and methods or job site safety during construction, which are exclusively the Contractor's responsibility. Processing and/or approving submittals made by the Contractor which may contain information related to construction methods or safety issues, or participation in meetings where such issues might be discussed must not be construed as voluntary assumption by the Engineer of any responsibility for safety procedures.

26 00 05 DIVISION 26 GENERAL REQUIREMENTS

A. Furnish all materials, labor, tools and equipment to complete and leave ready for operation all electrical systems as called for in these Specifications or shown on the Drawings and any and all details essential to complete the work.

B. The Division 26 Contractor is responsible for all electrical work shown, whether noted by his/her division or not, on all Drawings and Specifications in the entire construction documents package. In case of conflict, Contractor shall include greatest quantity of equipment, extent of work, and expense in his/her bid. If there is any question about scope, the bidder must bring his concerns to the attention of the Owner's representative during bidding.

C. Provide quality work conforming to the best accepted practices and standards of the trade. Further definition of quality is given by reference to various laws, codes, standards, and regulations. Refer also to the publications of NECA (National Electrical Contractors Association).

D. If a conflict occurs between the Drawings and the Specifications, immediately call the conflict to the attention of the Architect at least ten (10) days before bids are submitted, so an addendum clarification may be issued. Conflicts not brought to the Architect's attention before bids are due, shall be priced by the Contractor to include the most expensive, highest quality and quantity of the conflicting items in question.

E. Material and equipment installed under this Contract shall be new, undeteriorated, and of a quality not less than the minimum specified. All equipment and conductors shall be certified, listed and labeled by UL. If UL does not certify an associated piece of equipment, then certification by another nationally recognized testing laboratory such as ETI, shall be permissible. If equipment or conductors are of a type that no testing lab lists or labels, then a safety evaluation must be performed at the supplier's expense by the inspecting authority or another Federal, State or municipal agency.

F. The latest adopted editions of the following also apply to this work:
1. National Electrical Code, NEC
2. National Fire Protection Association Publications, NFPA
3. State Building Codes
4. City Codes
5. Americans with Disabilities Act (ADA)

G. Unless otherwise excluded in the Contract Documents, secure and pay for all permits and governmental fees, licenses, and inspections necessary for the proper execution and completion of work.

H. Coordinate any utility service shutdowns or outages with the Architect and the Owner. Shutdowns shall conform to all utility company requirements. Avoid inconveniencing the Owner and provide temporary service during the curtailment, as required by the Architect or the Owner. Provide ten working days advance notice for any required utility outages.

I. Drawings are schematic and show approximate locations and the extent of work. Exact locations and extent must be coordinated with other Contractors and verified in the field. Coordination of the final fabrication drawings and final coordination of the installation in the field is the Contractor's responsibility. Contractor is to take the design to the next level of detail knowing exactly what equipment and materials he/she is going to provide and build the project based on that equipment and other approved shop drawings.

J. The Architect reserves the right to make minor changes in location which do not require additional labor or material up to the time of roughing-in without additional cost. No cost shall be added to the Contract for a minor change. The Architect shall determine what is "SIGNIFICANT" and what is a "MINOR" change.

K. The Contract Documents are based on the requirements and layout of the equipment of the Design Base Manufacturer. Coordination of equipment with the building and with other trades has been made for these specific models and manufacturers of equipment. Where several manufacturers are listed, the first named is the Design Base Manufacturer, unless specifically noted otherwise. Products of the other listed manufacturers which are of comparable performance and quality to the Design Base Manufacturers may be submitted for review and approval per Section 26 00 15, "Submittals." Refer to 26 00 05, "Division 26 General Requirements," Paragraph 2.02, "Approved Equals" for products of manufacturers not listed.

L. Whenever the Contractor furnishes equipment or material other than the Design Base Manufacturer specified, the Contractor is responsible for the cost and coordination of all modifications required not only for his/her work, but also for the work of all other Trades affected. Where changes to other Trades' work are required, this Contractor must include the additional costs of all such work in his/her bid and ultimately make arrangements with these other Trades for such changes and compensate them accordingly. Where changes to design are required, the Contractor shall submit such changes to the Architect for approval.

M. Equal (equivalent) components (articles, devices, materials, forms of construction, fixtures, etc.) by manufacturers not listed but meeting the specifications may be submitted to the Architect a minimum of 7 days before bidding for consideration and possible inclusion into the bidding documents.

N. Contractor shall maintain at the job site, one copy of Drawings which shall be used exclusively for recording the location of all installed work; not extraneous information such as field notes. Neatly record all information with red pen. Record deviations in locations of concealed conduit, equipment, lighting, outlets, etc., dimensioned from a fixed control point, including depth of bury, at each change of direction, at each change of slope and as required for further reference. Addendums, Change Orders, Field Work Orders, Supplemental Instructions and other pertinent changes of record shall be recorded.

O. At completion of the project, Contractor shall deliver "As-Built" Drawings and Coordination Drawings to the Architect for review and approval with regard to completeness. This submission shall consist of the job site "As-Built" Drawings in electronic format and as PDF files. Following approval, provide a full-plotted set as well as the electronic version and original. Refer to Division 1 for additional requirements.

P. Finish painting in areas of new construction is the responsibility of the General Trades Contractor and is specified in Division 9.

Q. Unless otherwise required in General or Special Conditions, Contractor shall perform all cutting and patching required for his/her own work. Work must be accomplished in a neat and workmanlike manner, acceptable to the Architect.

R. Patching shall match adjacent materials and shall be accomplished only by tradesmen skilled in the respective craft required. Materials and equipment used in the patching work shall comply with requirements of those Sections of the Specifications relating to material to be used in new construction.

S. Upon completion of work, all material and equipment furnished in this Contract shall be thoroughly cleaned of labels, dirt, grease, rust, oil and other foreign matter. Prepare for finish painting, where painting is specified.

T. The laws and ordinances of any public authority having jurisdiction may require portions of the work to be inspected, tested, or approved. These services shall be performed by approved agencies. The Architect (and Owner's representative) must be notified of all scheduled tests and adjustments at least 72 hours before they are scheduled so that he/she may witness same. Obtain confirmation of attendance or absence for each test.

U. The Contractor shall bear all costs of such inspections, tests, or approvals. Required certifications of inspection, testing, or approval shall be secured by the Contractor and included in the Record and Information Manuals. See Section 26 00 20, "Record and Information Manuals."

V. The Contractor shall warrant all work for a period of one (1) year from date of Contract Completion against defects in materials, equipment, and workmanship. All manufacturer warranties shall begin on date of Contract Completion also.

26 00 10 COORDINATION BETWEEN TRADES

A. Division 26 Contractor shall coordinate all of his/her work with the General Trades Contractor for location of all devices, luminaires and equipment prior to rough-in.

B. All wiring required to power Division 21, 22, 23, 27 and 28 equipment shall be installed by the Division 26 Contractor, including 120 volt to temperature control panels. The Division 26 Contractor shall be responsible for all wiring from the fire alarm control panel.

C. Division 26 Contractor shall coordinate in particular with Divisions 8, 10, 11, 12, 13, and 14 Contractors for specific requirements for door hardware, kitchen equipment, elevators, pool, theatrical equipment, window shades, etc.

D. Division 26 Contractor is responsible for all electrical work shown on all documents within the bid set.

26 00 11 COORDINATION WITH UTILITY COMPANIES

A. The Division 26 Contractor shall coordinate division of responsibility with the utility companies serving the building. The Division 26 Contractor shall provide, furnish, or install materials and labor not provided, furnished or installed by the utility companies.

B. Electrical Utility Company Allowance: The Division 26 Contractor shall include in his/her Bid an allowance of $10,000 for payment to the electric utility company for electrical service and aid to Construction charges.

C. The electric power utility company is responsible for the following:
1. Furnishing and installing service conductors
2. Furnishing and installing primary voltage cables and lugs
3. Furnishing and installing meter

D. The Division 26 Contractor is responsible for all other work, including the following:
1. Providing trenching and backfill for secondary service laterals
2. Furnishing and installing conduits for secondary laterals
3. Furnishing and installing secondary voltage cables and lugs
4. Furnishing and installing meter socket box and supports
5. Furnishing and installing ground rods

26 00 15 SUBMITTALS

A. Submit complete catalog data or shop drawings for each manufactured item of equipment and all components to be used in the work, including specific performance data, material description, rating, capacity, working pressure, dimensional data, material gauge or thickness, wiring diagrams, brand name, catalog number, and general type. Provide site plan layout drawings and wiring diagrams.

B. Catalog data for equipment reviewed by the Engineer shall not take precedence over the requirements of the Contract Documents. The review of the Engineer shall not relieve the Contractor from the responsibility for deviations from Drawings or Specifications, nor from the responsibility for providing proper clearance and coordination with other Trades.

C. When submitted for review, all shop drawings shall bear the Contractor's signed certification that he/she has reviewed, checked, and approved the shop drawings, that they have been coordinated with the requirements of the project and with the provisions of the Contract Documents, and that he/she has verified all field measurements and construction criteria, materials, catalog numbers, and similar data, and that he/she has coordinated all trades.

D. Manufacturers of electrical distribution equipment may be: Schneider (Square D), Eaton, Seimens, ABB (GE). 1

26 00 20 RECORD AND INFORMATION MANUALS

A. Refer to Division 1 for general requirements and for specific information regarding Operation and Maintenance Manuals, including required format(s) (paper and/or electronic) and quantity. If no such requirements are listed in Division 1, provide in electronic format. Submit one (1) copy of draft manual to the Architect for review and approval thirty (30) days before final inspection is due. After approval, submit three (3) approved manuals to the Owner and obtain receipt.

B. Paper Copy Manuals shall be loose leaf, three-ring, heavy-duty hard-cover binders. Material shall be typewritten or printed and be fully legible. Each section shall be divided by labeled tabs.

C. Electronic Copy Manuals shall be PDF file format. Individual documents shall have filenames corresponding to specification sections and system names. Each document shall have bookmarks corresponding to the systems, subsystems, and equipment names. Use electronic files prepared by manufacturers where available.

D. The following items, together with any other necessary pertinent data, shall be included in each Manual:
1. Each manual shall be labeled on front cover with project name, Contract, Contractor's name, Architect, Engineer, and date of project completion.
2. Manufacturers' names, nearest Factory Representative, and model and serial numbers of components of systems
3. Operating instructions, start-up and shutdown procedures
4. Maintenance instructions
5. Routine and 24 hour emergency service/repair information:
   a. Name, address, and telephone number of servicing agency
   b. Names of personnel to be contacted for service arrangements
6. Parts list with numbers of replaceable items, including sources of supply
7. Manufacturers' literature describing each piece of equipment
8. One (1) approved copy of each submittal
9. Written warranties
10. Certificate of Material Receipt and Certificate of System Completion
11. One (1) typewritten directory for each panelboard as installed
12. Record (As-Built) Drawings
13. Certificate of Final Inspection signed by Building Authority Having Jurisdiction
14. Test results

26 00 25 EXCAVATION, BACKFILL, AND PROTECTION OF UTILITIES

A. Provide all protection, removal, and relocation of existing utilities and all excavation and backfilling (including concrete), associated with the work of this Division.

B. Locate all existing utilities and equipment, in all areas of work, and record the actual locations. Take extreme care during excavations to avoid interruption of utilities. Relocate new work, as directed by the Architect or Engineer, if required to coordinate new work with existing conditions. If incorrectly charted or uncharted utilities are encountered, notify the Architect immediately.

C. Restore or repair to its existing condition all lawns, planting areas, curbs, paving, streets, and walks damaged by the work of this Division.

D. It is solely the Contractor's responsibility to comply with all governing codes and ordinances regarding safety of open excavations. This includes the use of all sheet piling, bracing, shoring, sheathing, warning lights, barricades, etc. that may be required. Such material will remain the Contractor's property upon completion of the work.

E. Under pavement, concrete, and other hard surfaces:
1. Crushed Stone: 3/8 inch size
2. Pea Gravel: 1/4 inch minimum, 5/8 inch maximum
3. Sand: Clean, dry, coarse, or medium size
4. Washed Gravel: 3/4 inch normal size

F. Backfill in lawn areas: Backfill may not contain large rocks (over 2 inches), building materials, masonry debris, cinders, rubbish, wood, or other material subject to decay or prone to damage the portions of the work.
1. Excavated Material (or other clean soil): As permitted in Division 2.

G. Underground warning tape shall be a 6 inch wide polyethylene material which resists acid, alkalis, and other soil substances. Black printing shall identify buried service. Background color shall be as recommended by the American Public Works Association (APWA). Brady or equal.

H. Maintain 5 feet clear between trench and parallel building footing, unless specifically approved by the Architect. When parallel trenches are required to be deeper than footing, maintain a clear distance at least 1 1/2 times the vertical distance below the bottom of the footing, or 5 feet, whichever is greater.

I. Install a continuous warning tape with printing identifying buried service, 12 inches below finished grade, during backfilling operation.

26 00 30 CONCRETE FOUNDATIONS, SUPPORTS, AND ENVELOPES

A. Provide all concrete work needed for this Division as shown on the Drawings and herein specified. All concrete work incidental to the work of Division 26 is the responsibility of the Division 26 Contractor. Provide concrete for all equipment as listed below:
1. Exterior lighting fixture and lighting pole foundations.
2. Electrical service equipment pad.

26 00 70 DEMOLITION

A. Perform demolition work of all electrical items as shown and/or described on the Drawings. Remove all items from site designated as scrap.

B. All electrical items in good condition are to remain the property of the Owner. The Contractor shall deliver these items to the Owner's designated storage area. Verify with the Owner's Representative which items are considered scrap and are to be disposed of. Any items not retained by the Owner shall be disposed of offsite by the Contractor.

C. Coordinate and schedule all work in a careful manner with all necessary consideration for the Owner, neighbors, and the public, avoiding interference with the use of, and passage to and from adjacent areas and facilities designated to remain in use during demolition. Coordinate work with other trades.

D. Maintain all existing circuits to items that are to remain in use. Provide boxes, conduit, conductors, etc., as required. Existing outlets which are to be removed and have conduits rising from the floor slab shall have the conduits cut below floor level. Rework as required to provide feed-through service to other remaining outlets. Pull new wire between remaining outlets affected by feed-through. Patch floor as required to restore to original condition. All conduits not embedded in concrete are to be removed. Conduits protruding from concrete shall be cut below floor level. Patch floor as required to restore to original condition.

E. Abandoned outlet boxes in walls to remain shall be closed with blank coverplates. If equipped with devices, the devices shall be removed and the conductors removed to the adjacent outlet or reconnected as required to provide feed-through service.

F. Disposal of hazardous materials (e.g., luminaire ballasts and lamps) shall be in accordance with Federal and State Environmental Protection Agency regulations. A signed statement signifying proper disposal shall be furnished to the Building Owner in the Record and Information Manuals.

26 05 10 WIRE AND CABLE

A. Furnish and install all electrical conductors for service entrance, feeder and branch circuit wiring and control wiring.

B. Type "THHN/THWN-2" wiring shall be single conductor annealed uncoated copper with PVC insulation and nylon jacket. Insulation shall be heat and moisture resistant with light stabilized jacket. Wire shall be rated 600 volt, 90 degree C in dry locations, 75 degree C in wet locations. Conductors No. 10 AWG and smaller may be solid; No. 8 AWG and larger shall be stranded. Where stranded conductors of sizes 12 and 10 are used, appropriate crimp terminations shall be provided on the ends of each conductor for making connections to wiring devices, switches, etc.

C. Type "XHHW-2" wiring shall be single conductor annealed uncoated copper with heat and moisture resistant thermosetting cross-linked polyethylene insulation. Wire shall be rated 600 volt, 90 degree C in dry locations, 75 degree C in wet locations. Wire shall be single conductor, uncoated aluminum with XLPE insulation and compressed compacted stranded conductor.

D. Splices in No. 10 AWG and smaller wire shall be made with insulated connectors with metallic coil springs and contoured wings such as 3M "Scotchlok," Ideal Company "Wing Nut," Thomas & Betts Company "Piggy" connectors, or with mechanically-crimped sleeves as manufactured by T & B or Ideal Company, which shall be insulated with pressure sensitive vinyl plastic electrical tape equal to Scotch No. "33" or No. "88." Push wire or incline connectors are not acceptable.

E. All taps, terminations or splices, size No. 8 and larger shall be made with bolted-type pressure or compression connectors. Connectors shall be compatible with the conductor material. Insulate connectors with electrical tape to 150% of the insulating value of the conductor insulation. The tape shall have insulating properties equivalent to the conductor.

F. Service entrance conductors for underground installations in raceways shall be Type "XHHW-2." All branch circuits, feeders and control wiring shall be Type "THHN/THWN-2."

G. Unless otherwise noted, minimum wire size for power branch circuits shall be No. 10 AWG and for control and auxiliary systems No. 14 AWG. Wire size for branch circuit homeruns shall be as indicated in the panelboard schedules.

H. All conductors shall be copper. Equipment shall have sufficient wire bending space. Aluminum conductors are not permitted.

I. Wire color and code shall be used as follows:

	120/240 Volt
Phase A	Black
Phase B	Red
Neutral	White
Ground	Green

A. All circuits shall have separate neutral conductors run for each phase conductor.

B. Number of branch circuit conductors in a conduit including switch legs and neutral conductors shall not exceed nine (9) conductors. Conductors shall be derated in accordance with NEC Article 310 when more than three (3) current carrying conductors are installed in a raceway.

C. Branch circuits shall be connected as numbered on the Drawings. Test and permanently tag by circuit number each circuit phase conductor in panelboard gutter before connecting to panelboard. Numbered adhesive tapes may be used at Contractor's option. Group neutral conductor and associated phase conductors with cable ties.

26 05 26 GROUNDING AND BONDING

A. Furnish and install a complete grounding system as shown on the Drawings and specified herein. Provide all accessories as necessary for a complete system. All components of the electrical system shall be grounded and bonded including: raceways, enclosures, receptacles, controllers, panelboards, controllers, luminaires, and all other electrical components and subsystems.

B. The service entrance conductors shall be grounded in accordance with NEC Article 250.24. The grounding electrode conductor shall be connected to the grounded service conductors at the terminal or bus at the main service disconnecting means. A grounding connection shall not be made to any grounded circuit conductor on the load side of the service disconnecting means, except for additional separately derived systems.

C. Metal enclosures or raceways for conductors or equipment shall be grounded.

D. Equipment grounding connections at service equipment shall be made by bonding the equipment grounding conductor to the grounded service conductor and the grounding electrode conductor. The grounding electrode conductor shall connect the equipment grounding conductors, the grounded service conductors and the service entrance enclosures to the grounding electrode. A main bonding jumper shall connect the equipment grounding conductors and the service equipment enclosure to the grounded conductor within the service equipment. Provide separate green insulated equipment grounding conductors for all feeders and branch circuits.

E. Bonding shall be provided and conform to all requirements of NEC Article 250, Parts V and VII.

F. Grounding electrode system shall consist of all of the following components exothermically bonded together:
1. The Steel Frame of Gazebo - At a column nearest to the service entrance equipment. Comply with NEC 250.52(A)(2).
2. Driven Ground Rods - Two ground rods, installed vertically into earth near the service entrance point and spaced 20 feet apart, with top 4 feet encased with low resistivity backfill. Comply with NEC 250.52 (A)(5).

G. Exterior luminaires and metal poles shall be grounded by the use of a manufacturer supplied ground lug or pigtail or by the use of ground clips fastened in bare metal that is free of paint. Poles shall be grounded to an equipment grounding conductor.

H. Ground system resistance measurements shall be taken and submitted to the Architect for approval before energizing equipment. Measurements shall be taken in dry weather, not less than 48 hours after rainfall.

26 05 29 HANGERS AND SUPPORTS

A. Furnish and install complete hangers, supports and concrete inserts as required for the installation of conduits, cabinets, and equipment installed under Division 26. Provide all beam clamps, expansion anchors, threaded rod, framing steel and hardware as required.

B. Exposed conduits shall be installed parallel with or at right angles to building structure, fastened at least every 8 feet and at both sides of each outlet, except at one side only of conduit terminating outlets. Conduits shall be installed tight to structure and beams/joists. Coordinate exposed conduit routing with Architect prior installation. Conduit risers shall be supported with friction clamps with two point bearing anchored to building construction and at every floor.

C. The following hanger methods are not permitted:
1. Wood plugs
2. Perforated band iron
3. Hook chain supports
4. Bailing wire, etc.
5. Mineralliacs where previously mentioned
6. Friction type clamps, such as hammer on clips

26 05 33 CONDUIT AND FITTINGS

A. Provide complete grounded conduit systems for all electrical conductors.

B. Rigid (RMC) and Intermediate Metal Conduit (IMC) Conduit shall be steel, hot dipped zinc galvanized (minimum 0.0008 inch thick) inside and out, with circular cross section, uniform wall thickness, continuously welded seams and chamfered threaded ends.

C. All RMC and IMC fittings shall be galvanized steel. Connectors and couplings shall be threaded, set screw or compression type, concrete-tight. Conduit bodies shall be threaded steel type. Provide neoprene cover gaskets for conduit body covers exposed to the weather.

D. Expansion fittings, shall be O-Z/Gedney Type "AX" for RMC. For IMC applications, a 15 inch minimum length of RMC shall be used with a Type "AX" expansion fitting. Provide O-Z/Gedney Type "BJ" bonding jumpers at all expansion fittings.

E. Sealing fittings shall be Crouse Hinds Type EYD or Appleton Type EYD, with drain.

F. RMC and IMC conduit bushings shall be of the insulated type with phenolic thermosetting insulation molded to a hot dipped galvanized steel body of the threaded type. Fittings larger than 2 1/2 inches shall have threaded bushings installed as described in Paragraph E above. Conduits larger than 1 inch shall have grounding type bushings.

G. All conduit shall be rigid metal conduit. Other conduit types are not permitted.

H. RMC conduit shall be used on roofs with appropriate expansion fittings.

I. Conduit shall be securely and rigidly fastened in place with approved pipe straps, wall brackets, conduit clamps, conduit hangers, threaded C-clamps, or ceiling trapeze. C-clamps and beam clamps shall have strap or rod-type retainers.

J. Where exposed, conduits shall be run as inconspicuously as possible. In finished areas exposed to public view without ceilings, all work shall be installed in an aesthetically acceptable manner. Coordinate specific routing of surface mounted conduits in Gazebo with Landscape Architect prior to installation.

K. Conduit shall be independently supported from elements of the building. Boxes shall be fastened to structure independently from conduit system. Conduits shall not be attached to metal decking forming the roof.

L. Install bushings on all RMC and IMC conduit ends. Install insulated throat fittings on all EMT conduit ends. Fasten conduit to boxes and cabinets using locknuts. Provide two (2) locknuts where required by the NEC, where insulating bushings are used and where bushings cannot be brought into firm contact with the box.

M. Provide expansion joints in conduits run on roofs and exterior to building above grade. Provide proper roof flashing and sealing when penetrating roofs.

N. Do not exceed four (4) 90 degree bends in any conduit run wIthout a pulling point. Provide pullboxes as required. Locate pullboxes in accessible areas. Coordinate locations with all other building Trades.

26 05 34 OUTLET BOXES

A. Outlets shall be provided for devices, luminaires, and equipment connections, systems equipment connections, special outlets, and as otherwise required. Outlet boxes shall be of sufficient size to provide free space for all conductors enclosed in the box. Boxes shall be not less than the minimum size required by NEC Article 314 for the number and size of conductors contained within.

B. Weatherproof Outlet Boxes: Provide corrosion-resistant cast aluminum, weatherproof outlet wiring boxes, of types, shapes and sizes, including depth of boxes, with threaded conduit ends, cast-metal face plates with spring-hinged waterproof caps suitably configured for each application, including face plate gaskets and corrosion-resistant fasteners.

C. All boxes shall be rigidly supported from structure independent of the conduit system. Boxes cast into masonry or concrete are considered to be rigidly supported.

26 05 36 PULL AND JUNCTION BOXES

A. Pull or junction boxes shall be provided in all raceway systems where required to avoid an excessive number of bends, to facilitate wire pulling, or to afford required access to the raceway system. Maximum distance between boxes in raceway systems shall not exceed 100 feet.

B. Pull and Junction Boxes: Provide galvanized code-gauge sheet steel junction and pull boxes, with screw-on covers, of types, shapes and sizes, to suit each respective location and installation. Minimum size shall be 4 inch square, 2 1/8 inch deep box.

C. Surface junction boxes in utility areas shall be without knockouts, shall have close fitting screw covers and shall be finished in medium gray enamel. Boxes exposed to the weather shall be weatherproof type as required by NEC.

D. Install pull and junction boxes, complying with Manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation," and in compliance with recognized industry practices.

26 05 43 UNDERGROUND RACEWAYS

A. PVC conduit shall be rigid non-metallic, Schedule 40 heavywall, UL approved for direct earth burial, with slip joint type cemented fittings.

B. Rigid galvanized steel conduit and associated fittings shall be the same as specified under Section 26 05 33, "Conduit and Fittings."

C. Use only rigid galvanized steel raceways for:
1. Raceways underneath electric equipment pads
2. Terminal pole risers
3. All elbows both horizontal and vertical (45 degrees and greater)

D. Underground branch circuit raceways shall be a minimum of 1 inch.

E. Unless otherwise noted on the Drawings, underground raceways systems shall be installed 30 inches below finished grade to top of raceways. Coordinate with other site utilities and run deeper, if necessary. Always run below gas lines.

F. Location of underground raceways shall be identified with underground warning tape. Refer to Section 26 00 25, "Excavation, Backfill and Protection of Utilities" for warning tape requirements.

26 05 53 ELECTRICAL IDENTIFICATION

A. Furnish and install equipment identification nameplates on all pieces of electrical equipment.

B. Nameplates shall state the equipment name and number or letter as shown on the Drawings; voltage and phase; HP, ampacity or KW size; and source of power. Identification shall be as shown in the following examples:
1. Panel P1
   208/120 V, 3Ø, 4W
   225 Amps

C. Nameplates shall be installed on the front cover or trim of each piece of equipment.

26 05 82 UNDERGROUND JUNCTION BOXES

A. Furnish and install underground junction boxes where required and/or as shown on the Drawings and specified herein. Boxes shall be provided where required to avoid an excessive number of bends and to facilitate wire pulling. Maximum distance between pull boxes shall not exceed 500 feet. Provide all accessories and equipment as necessary for a complete system.

B. Underground junction boxes shall be constructed of gray polymer concrete and reinforced by heavy-weave fiberglass. Pull box rating shall be 8,000 lbs. over a 10" x 10" area designed for vehicular traffic.

C. Junction boxes shall be 17" x 30" x 16" deep with tapered flanged footing, open bottom, stackable construction, with two (2) 4-inch mouse holes. Covers shall be flush mounted, with skid resistant surface, penthead bolts, and "Electric" or "Communications" logo as appropriate. Junction boxes shall be Quazite PT 1730 BB.

26 08 40 ELECTRICAL TESTS, ADJUSTMENTS, INSPECTION

A. Furnish equipment and perform as necessary all testing as required herein. Perform adjustments of equipment as required. Arrange for inspections by the authority having jurisdiction.

B. Test each run of 600 volt cable for insulation leakage. Use the short-time method with readings taken at 30 and 60 seconds. Record results for conductors used for switchboard and panelboard feeders.

C. Test and record grounding system resistance. Refer to Section 26 05 26, "Grounding" for test procedure.

D. Inspection shall be performed by: Contractor shall arrange for periodic and final inspections in a timely manner and with due regard for the work of other Contractors and the Construction Schedule. Include final Certificate of Inspection in the Record and Information Manuals.

26 09 23 ELECTRICAL CONTROL EQUIPMENT

A. Furnish and install contactors, time clocks, and photocontrols as shown on the drawings and herin specified. Provide all accessories and necessary equipment for a complete system.

B. All equipment shall be UL listed and labeled and in accordance with applicable NEMA and ANSI Standards.

C. Manufacturers for Contactors shall be: Square D Company, Cutler-Hammer Electric Corporation, or Siemens Energy & Automation, Inc. Manufacturers for Time Clocks and Photocontrols shall be: Paragon, Tork, or Intermatic.

D. lighting contactors shall be turned "on" by photocontrols and turned "off" by time clocks, unless noted otherwise.

E. Multipole contactors shall have 20 Ampere lighting, 30 Ampere general purpose rated double-break, silver-cadmium-oxide convertible contactors with indicators. Contactor shall be 100% rated for lighting loads, and have a NEMA 1 wall mountable enclosure. Contacts shall be 300 volt rated for phase to neutral loads and 600 volt rated phase to phase.

F. Contactors shall have field addable poles up to a maximum of 12. Coils shall be encapsulated. Mechanically held contactors shall have coil-clearing contacts. Coils shall have a control voltage of 120 volt, 1 phase.

G. Multipole contactors basis of design: Square D Type L.

H. Time clocks shall be two channel, microprocessor based, seven (7) day programmable, with 100 hour battery carryover. Time clocks shall have two (2) 15 Ampere inductive rated SPDT (Form C) contacts. Time clocks shall be in a NEMA 1 enclosure. Paragon EC72D.

I. Photocontrols shall be sealed cadmium sulfide photocell in a weatherproof enclosure and conduit mounted. Photocontrol shall have a 2000 watt, 120 volt rating. 15 second inertial time delay and adjustable slide. Paragon CW201-00.

J. Testing: Provide a complete functional test of all components in accordance with Manufacturer's recommendations. Operate system for a minimum of seven (7) consecutive days with no problems before claiming completion.

26 24 20 PANELBOARDS

A. Furnish and install circuit breaker panelboards as indicated in the panelboard schedules and as shown on the Drawings. Short circuit ratings shall be as shown on the Drawings. Equipment shall be fully rated; series ratings are not permitted. Provide lug sizes as necessary for cable sizes as shown on the Drawings.

B. Panelboards for 240/120 volt, 1 phase service shall have bolt on thermal magnetic molded case circuit breakers, with 22,000 AIC minimum rating.

C. Bus bars shall be copper or tin-plated aluminum. Equipment ground bus shall be provided in each panelboard in addition to any neutral bus requirements. Ground bus to be factory bonded to panelboard tub.

D. Provide main breakers for panelboards of the type and class indicated on the Drawings.

E. Branch Circuit Breakers shall be thermal magnetic molded case circuit breakers with bolted bus connections. Breakers shall have an over center, trip-free, toggle-type operating mechanism with quick-make, quick-break action and positive handle indication.

F. Ground fault circuit interrupter (GFCI) type circuit breakers shall be rated for five milliamp trip setting, up to 50A, 120V and 100A, 208V, 3-pole configuration at 22,000 AIC. GFCI type circuit breakers shall be used for personnel protection interior and exterior.

G. Door and trim finish shall be Manufacturer's standard lacquer or enamel. All trim shall be made for surface mounted panelboards as scheduled on the Drawings and hinged to back box for "door in door" design. Doors shall be equipped with totally concealed hinges and trim clamps and flush chrome-plated combination locks and catches, all keyed alike. Fronts shall not be removable with door in the locked position. Furnish two (2) keys for each panelboard installed and one (1) pint of touch-up enamel paint.

H. Panelboard to be installed within Electrical Equipment enclosure. Coordinate mounting and necessary dimensions with equipment enclosure manufacturer prior to ordering equipment or enclosure. 1

I. Furnish directory frames inside the door of each panel which shall contain a correct typewritten directory card, properly filled out to correspond.

26 27 26 WIRING DEVICES AND PLATES

A. Furnish and install wiring devices and plates as specified herein and as shown on the Drawings. All normal power devices shall be the same color.

B. All convenience and power receptacles shall conform to NEMA Extra Heavy Duty Standards and shall be Specification Grade, grounding type.

C. Convenience duplex receptacles shall be 20 Ampere, 125 volt, back and side wired, 3 wire grounding, UL listed as complying with the requirements of NEC Article 250.146, NEMA 5-20R configuration.

D. Ground-fault circuit-interrupting (GFCI) duplex receptacles shall be 20 Ampere, 125 volt "feed-through" type, NEMA 5-20R configuration, self testing.

E. Tamper resistant duplex receptacles shall be 20 Ampere, 125 volt, 3 wire grounding, UL listed in accordance with NEC 406.12 and 210.52, NEMA 5-20R configuration.

F. Weatherproof Duplex Receptacles shall be 20 Ampere, 125 volt or 250 volt, UL listed as weather resistant type per NEC 406.

G. All receptacles shall be white.

H. Wiring devices subject to wet locations shall be provided with NEMA 3R cover assemblies UL listed for wet locations while in use. Cover assemblies shall use a vertically-lifting "canopy" to protect the wiring device(s). Cover assemblies shall be standard size, one (1) or two (2) gang as required with gaskets between the hinged cover and mounting plate/base to assure proper seal.

I. All devices shall be connected to conductors using the side wiring terminal screw connections with conductor bend in circle for maximum surface contact. Devices with voltages higher than 120 volt shall have two (2) layers of electrical tape applied over the expose side terminals. Provide electrically continuous, tight grounding connections for wiring devices, as required by NEC Article 250.

26 51 14 LUMINAIRES

A. Furnish and install luminaires, LED modules, and drivers as herein specified and shown on the Drawings. Luminaire Manufacturer and model numbers shall be as scheduled on the Drawings. Luminaires not bearing a letter symbol shall match adjacent luminaire in space.

B. Luminaires shall be provided with all required mounting hardware for a complete installation.

C. Exterior ground-mounted luminaires shall be installed on permanent concrete bases.

D. Luminaires shall be securely mounted to elements of the building structure such that they will be square, plumb, and rigid, and will not fall or sag.

E. All luminaires that are wall mounted or surface mounted shall be attached to outlet boxes that are securely supported to the building structure and UL listed for luminaire support.

F. Clean both inside and outside surfaces of luminaires after installation. No luminaires shall be installed until the painting work of the General Trades Contractor is completed. Damaged, deformed or defective luminaires are to be replaced.

MKSK
Landscape Architecture
Urban Design
Planning

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796 MKSKSTUDIOS.COM

client / owner
Etna Township

project name
ETNA HIGH POINT PARK

project address
81 Liberty St. SW
Etna, Ohio
43018

consultant 1
KORDA
1650 Watermark Dr.
Columbus, Ohio, 43215
p 614.487.1650

100% CONSTRUCTION DOCUMENTATION

revision	date	issued
1	11.17.2025	ADDENDUM 1

seal
STATE OF OHIO
ROBERT R. JONES
E-84916
REGISTERED PROFESSIONAL ENGINEER

issue date 08.27.2025
project number c24232

KORDA
KORDA / NEMETH ENGINEERING
WWW.KORDA.COM
DRAWN BY: Prarie S. Gallina
DESIGNED BY: Prarie S. Gallina
CHECKED BY: Prarie S. Gallina
PROJECT NUMBER: 2025-0513

sheet name
ELECTRICAL SPECIFICATIONS

sheet number
E8.01

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Etna High Point Park – Site & Landscape Improvements Project

Bidding Documents – Plan Set Holders – as of 11/18/25

1. The Builders Exchange
   Attn: Cyndi Thorton
   p 216.393.6300 x236 | f 866.907.6304
   CThornton@bxohio.com |
   https://protect.checkpoint.com/v2/r01/ www.bxohio.com .YzJ1Om1rc2s6Yzpv OjkxMmI2ODRiNzYwNjE5ZWJjZDE2NDc1MDYzOTQ2YjhkOjc6ZTRjZDoxOTFlNGMxND hlYTkyNzM3YTZhNGIxZTU2MDExMjUzNTdmODczMzA0NTcxZGVjNGIwZmU5NjY2YW Y1MmE0ZjdhOnQ6VDpG

2. Construct Connect
   Attn: Joy Sayre
   513.458.5969
   Fax 866.570.8187
   joy.sayre@ConstructConnect.com

3. Miles-McClellan Construction
   Chris King 740.450.6889
   2100 Builders Place
   Columbus, OH 43204
   chris.king@mmbuildings.com

4. Mark Evans
   614.831.1600 Cell
   81 Liberty Street
   PO Box 188
   Etna, OH 43018-0188
   mevans@etnatownship.com

5. Jess Howard Electric Company
   Madeline Case
   614.861.1300 Ext: 238
   6630 Taylor Road
   Blacklick OH 43004
   madeline.case@jesshoward.com

6. Builderscape, Inc.
   Chris Matthews
   614.679.2588
   10496 Parks Court
   Marysville, OH 43040
   chris@builderscape.com

7. Law General Contracting/ Xtreme Asphalt
   Scott Vierstra
   740.584.1073
   scott@lawxtreme.com

8. Deltek, Inc.
   Patricia Manarin
   2291 Wood Oak Drive
   Herndon VA 20171
   PublicRecords@deltek.com

9. Cruikshank Plumbing
   Deven Cruikshank
   deven@cruikshankplumbing.com

10. Setterlin
    Andrew J. Currie
    P: (614) 586-0244
    C: (614) 537-2406
    a.currie@setterlin.com

11. SERVICE SUPPLY LTD INC
    Jerry Groves
    614.861.3681
    1610 Lancaster Ave.
    Reynoldsburg, OH 43068
    jgroves@servicesupplyltd.com

12. Star Consultants, Inc.
    Taha Alghothani
    (614) 538-8445 ext. 232
    1910 Crown Park Court
    Columbus, Ohio 43235
    taha@starconsultants.org

13. R & J Commercial Contracting
    Rob Justice
    rob.justice@yahoo.com

14. Dodge Construction Network
    Brenda Cusack
    brenda.cusack@construction.com

15. Mills Fence Co.
    Randy Foor
    Office 614-876-9944
    Mobile 740-975-4418
    randy.foor@millsfence.com

16. Toni Callaghan
    toni.callaghan@mmbuildings.com

17. Tim Meeker
    Meekerexcavating@gmail.com

18. R&J/ Frontier
    614-332-1055
    rob.justice@yahoo.com

19. Chris Peters
    CS Electric
    cselectric9518@gmail.com

20. Frank Welsh
    franksuap@yahoo.com

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Etna High Point Park Site Improvements Project

Pre-bid Meeting Sign in sheet 11/12/25

1. Andrew Currie
   Setterlin Building Company
   614-537-2406
   a.currie@setterlin.com

2. Tim Howard
   Jess Howard Electric
   614-861-1300 ext. 308
   timhja@jesshowared.com

3. Mark Cromwell
   Builderscape, Inc.
   614-448-8611
   mark@builderscape.com

4. Toni Callaghan
   toni.callaghan@mmbuildings.com

5. Taha Alghothani
   taha@starconsultants.org

6. Tim Meeker
   Meekerexcavating@gmail.com

7. R&J/ Frontier
   614-332-1055
   rob.justice@yahoo.com

8. Chris Peters
   CS Electric
   cselectric9518@gmail.com

9. Frank Welsh
   (Franks xxxxxxxx)
   franksuap@yahoo.com