

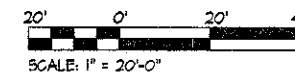
GENERAL NOTES:

- PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, 2008 EDITION.
- CONTRACTOR SHALL PERFORM WORK AND PROVIDE MATERIALS IN ACCORDANCE WITH CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARDS.
- COORDINATE EXACT LOCATION OF NEW LIGHT POLES WITH EXISTING CONDITIONS, STRUCTURES AND DEVICES. LOCATIONS OF NEW LIGHT POLES SHALL BE COORDINATED WITH THE CITY ENGINEER PRIOR TO INSTALLATION.
- EXISTING STREET LIGHTING SHALL REMAIN DURING INSTALLATION OF NEW LIGHT POLES. COORDINATE WITH THE LOCAL UTILITY (AMEREN IP) FOR THE REMOVAL OF EXISTING STREET LIGHTS UPON COMPLETION OF WORK. EXISTING STREETLIGHTS ARE OWNED BY AMEREN IP.
- CONTRACTOR SHALL NOT SPLICE ANY CONDUCTORS IN ANY BELOW GRADE HANDHOLES.
- #10 AWG TAP CONDUCTORS MAY BE USED FOR POLE MOUNTED LIGHTING FIXTURES AND RECEPTACLES.
- EACH LIGHTING FIXTURE SHALL BE PROTECTED BY A 15A IN-LINE FUSE WITHIN THE BASE POLE BASE.

KEYED NOTES: (X)

- EXISTING SERVICE PEDESTAL. CONTRACTOR SHALL MODIFY EXISTING LIGHTING CONTROLLER TO INCLUDE ADDITIONAL WEATHERPROOF ENCLOSURE, CONTRACTOR WIRING AND ACCESSORIES AS REQUIRED AND AS INDICATED ON PEDESTAL WIRING DIAGRAM & DETAILS ON SHEET E-601.
- NOT USED.
- NOT USED.
- EXISTING 4" CONDUIT CONTAINING EXISTING LIGHTING & RECEPTACLE CONDUCTORS. (PHASE I)
- EXISTING EMPTY 4" CONDUIT SHALL BE USED FOR NEW STREET LIGHTING FIXTURE AND RECEPTACLE CONDUCTORS. SEE ONE LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- EXISTING HAND HOLE FOR EXISTING STREET LIGHTING FIXTURE & RECEPTACLE CIRCUITS. CONTRACTOR SHALL SAW CUT SIDEWALK AND EXCAVATE AS REQUIRED TO ADD CONDUIT FOR NEW STREET LIGHTING FIXTURE AND RECEPTACLE CIRCUITS AS INDICATED ON THIS SHEET. BACKFILL WITH COMPACTED AGGREGATE AND RESTORE SURFACES TO AS GOOD AS, OR BETTER, THAN CONDITIONS PRIOR TO WORK.
- EXISTING 4" CONDUIT CONTAINING CONDUCTORS FOR EXISTING (PHASE I) LIGHTING FIXTURES SHALL REMAIN. CONTRACTOR SHALL PROVIDE ADDITIONAL CABLING WITHIN EXISTING CONDUIT FOR LIGHTING FIXTURES AND RECEPTACLES ON POLE #5, 11, 15, 17, 19 & 21 AS INDICATED ON ONE-LINE DIAGRAM ON SHEET E-501. CONTRACTOR SHALL PROVIDE PULL ROPE FOR FUTURE USE.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 15, 17, 19 & 21 IN A SINGLE 4" CONDUIT BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 16, 18, 20 & 22 IN A SINGLE 4" CONDUIT BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- PROVIDE A COMPOSITE CONCRETE HAND HOLE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION SECTION 814. LOCATE HAND HOLE TO DECONFLICT WITH CORNER CROSSWALK RAMPS. EXCAVATE AN AREA SUFFICIENT TO ALLOW FOR BORING OF NEW CONDUITS AS INDICATED. BACKFILL WITH REMOVED MATERIAL AND RESTORE SURFACES TO EXISTING CONDITIONS UPON COMPLETION OF NEW WORK. INSTALL CONDUIT BELL ENDS AND HAND HOLE HOOKS PER IDOT STANDARD 814001-01. HAND HOLE SHALL BE TIER 15 RATED AND APPROXIMATELY 11" X 17" X 18" DEEP. DESIGN BASE: HUBBELL PC68BA18.
- STUB 2" CONDUIT APPROXIMATELY 24" OUT FROM HAND HOLE FOR FUTURE USE. CAP AND MARK END WITH IRON PIN OR DETECTABLE TAG.
- PROVIDE A COMPOSITE CONCRETE HAND HOLE AS PART OF POLE BASE AS INDICATED IN DETAILS 2 & 3 ON SHEET E-602 AND IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION SECTION 814. SAW CUT SIDEWALK AND EXCAVATE AN AREA SUFFICIENT TO ALLOW INSTALLATION AS INDICATED. RESTORE SURFACES TO EXISTING CONDITIONS UPON COMPLETION OF NEW WORK. INSTALL CONDUIT BELL ENDS AND HAND HOLE HOOKS PER IDOT STANDARD 814001-01. HAND HOLE SHALL BE TIER 15 RATED AND APPROXIMATELY 6" X 8" X 12" DEEP. DESIGN BASE: HUBBELL PC68BA12. EXCAVATED MATERIAL SHALL BE SAVED AS FILL MATERIAL FOR DEMOLITION OF EXISTING POLE FOUNDATIONS AS INDICATED BY KEYED NOTE NUMBER 1 ON SHEET ED-101.
- NOT USED.
- PROVIDE A COMPOSITE CONCRETE HAND HOLE AS PART OF POLE BASE AS INDICATED IN DETAILS 4 & 5 ON SHEET E-602 AND IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION SECTION 814. RESTORE AND RESEED SURFACES TO EXISTING CONDITIONS UPON COMPLETION OF NEW WORK. INSTALL CONDUIT BELL ENDS AND HAND HOLE HOOKS PER IDOT STANDARD 814001-01. HAND HOLE SHALL BE TIER 15 RATED AND APPROXIMATELY 6" X 8" X 12" DEEP. DESIGN BASE: HUBBELL PC68BA12.
- NOT USED.
- CONTRACTOR SHALL SAW CUT SIDEWALK AS REQUIRED TO REMOVE CONCRETE FOR INSTALLATION OF CONDUIT AND/OR HAND HOLE. CONTRACTOR SHALL RESTORE SIDEWALK TO CONDITION EQUAL TO, OR BETTER THAN CONDITION PRIOR TO WORK.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 15, 17, 19 & 21 IN A SINGLE 2" CONDUIT TRENCHED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 16, 18, 20 & 22 IN A SINGLE 2" CONDUIT TRENCHED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 17, 19 & 21 IN A SINGLE 2" CONDUIT IN A SINGLE 2" CONDUIT DIRECTIONALLY BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 20 & 22 IN A SINGLE 2" CONDUIT DIRECTIONALLY BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 19 & 21 IN A SINGLE 2" CONDUIT. CONDUIT SHALL BE DIRECTIONALLY BORED BENEATH EXISTING IMPROVED SURFACES AND TRENCHED WHERE SURFACES ARE UNIMPROVED AS INDICATED. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #5, 20 & 22 IN A SINGLE 2" CONDUIT DIRECTIONALLY BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #21 IN A SINGLE 2" CONDUIT TRENCHED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- ROUTE WIRING FOR LIGHTING FIXTURES AND RECEPTACLES ON LIGHT POLE #22 IN A SINGLE 2" CONDUIT DIRECTIONALLY BORED BENEATH EXISTING SURFACES. PROVIDE PULL ROPE IN CONDUIT FOR FUTURE WIRING. SEE ONE-LINE DIAGRAM ON SHEET E-501 FOR CONDUCTOR QUANTITIES AND SIZES.
- PROVIDE LIGHT POLE, SPECIAL - DECORATIVE ORNAMENTAL AND LIGHT POLE FOUNDATION WITH HAND HOLE PER THE LIGHT POLE DETAIL NUMBERS 2 & 3 ON SHEET E-602.
- PROVIDE LIGHT POLE, SPECIAL - DECORATIVE ORNAMENTAL AND LIGHT POLE FOUNDATION, SPECIAL WITH HAND HOLE PER THE LIGHT POLE DETAIL NUMBERS 4 & 5 ON SHEET E-602.
- CONTRACTOR SHALL PROVIDE BOLLARD LOCATED APPROXIMATELY AS INDICATED. SEE DETAIL 7 ON SHEET E-602 FOR BOLLARD CONSTRUCTION.
- CONTRACTOR SHALL LEVEL AND RESEED (CLASS 1A) AREA DISTURBED BY TRENCHING IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS SECTION 250.

NORTH
PROPOSED LIGHTING LAYOUT
 SCALE: 1" = 20'-0"



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00003-01-LT	MACOUPIN	6	3
CITY OF BUNKER HILL		CONTRACT 93580	

HA
 HENEGHAN
 AND ASSOCIATES, P.C.
 ENGINEERS - SURVEYORS
 1004 STATE HIGHWAY 16,
 JERSEYVILLE, IL
 PH: 618.468.8418
 DESIGN FIRM NO. 184-002692
 EXPIRES APRIL 30, 2013

CONSULTANTS
HR
 HURST-ROSCHÉ
 ENGINEERS, INC.
 PROFESSIONAL DESIGN NUMBER: 164-00008
 1400 E. TREMONT
 HILLSBORO, IL
 PH: 217.532.3959
 F: 217.532.3212

Energy Plan
 ASSOCIATES
 8437 STEELECREST LANE
 TROY, IL
 PH: 618.667.0000
 F: 618.667.0007

BOYD C. POINTEUR
 062-042933
 LICENSED
 PROFESSIONAL
 ENGINEER
 STATE OF ILLINOIS
 SIGNATURE: *[Signature]*
 DATE: 3/30/2012
 LICENSE EXPIRES: 11/30/2013

BUNKER HILL STREET LIGHTING REPLACEMENT
 BUNKER HILL, MACOUPIN COUNTY, ILLINOIS

MARK	DATE	DESCRIPTION

DATE: 03/2012
 PROJECT NO: 153-4191
 DESIGN: BG DRAWN: BG CHECK: BCP

PROPOSED LIGHTING LAYOUT

E-101