GENERAL NOTES

A. FOR LIGHTING FIXTURE SCHEDULE, SEE DRAWING E6.1.

B. (TYPICAL) CONDUIT DEPTH SHALL BE A MINIMUM OF 3'-6" BFG (I.E. BELOW FROSTLINE) U.O.N, COORDINATE DEPTH WITH PAVING DETAILS

C. UTILITY COMPANY IS DUKE ENERGY. CONTACT: PHILLIP KUMPF - PHONE: 812-742-9155 - EMAIL: phillip.kumpf@duke-energy.com

D. REFER TO SITE-CIVIL DRAWINGS FOR TELEPHONE AND COMMUNICATIONS COMPANY CONTACT INFORMATION

E. USE RIGID GALZANIZED SLEEVES UNDER VEHICLE TRAFFIC AREAS. EXTEND SLEEVE 5'-0" BEYOND THE PAVED VEHICLE TRAFFIC AREAS.

F. CONTRACTOR SHALL FIELD COORDINATE (ON-SITE) PRIOR TO CONSTRUCTION WITH ELECTRIC UTILITY, TELEPHONE UTILIITY, AND CABLE TV UTILITY TO COORDINATE EXACT UTILITY REQUIREMENTS.

G. REFERENCE DRAWINGS C4.0 THROUGH C4.3 FOR LOCATION OF INCOMING UTILITIES AND OTHER UNDERGROUND ITEMS.

H. ROUTINGS ARE DIAGRAMMATIC. FIELD COORDINATE EXACT ROUTINGS WITH SITE CIVIL CONTRACTOR PRIOR TO CONSTRUCITON, TO AVOID UNDERGROUND UTILITIES, OBSTACLES, ETC. AS REQUIRED.

I. REFER TO SITE CIVIL PLANS FOR UNDERGROUND UTILITES, PIPING, STRUCTURES, RIGHT OF WAYS, PROPERTY LINES, ETC.

J. CONTRACTOR SHALL PATCH AND REPAIR ALL SURFACES DISTURBED TO MATCH NEW, ADJACENT SURFACES UNLESS OTHERWISES NOTED. FIELD COORDINATE UNDERGROUND ROUTINGS WITH SITE CIVIL CONTRACTOR, PRIOR TO CONSTRUCTION, TO MINIMIZE PATCH AND REPAIR WORK.

K. BURY GROUNDING ELECTRODE CABLE A MINIMUM OF 30" B.F.G. PER NEC.

L. BURY COMMUNICATIONS CONDUITS A MINIMUM OF 3'-6" BFG (I.E. BELOW FROSTLINE) U.O.N.

M. PRIOR TO CONSTRUCTION, COORDINATE WITH CIVIL CONTRACTOR WHERE NECESSARY TO PROVIDE FINAL GRADING COVER AT POLE BASE FOUNDATIONS, BURIED CONDUITS, ETC. FOR SUFFICIENT GROUND COVER WHERE TOPOGRAPHY DROPS OFF STEEPLY AT EDGES OF ROADWAYS FOR DETENTION BASINS, ETC.

N. FOR DIRECT BURIED CONDUIT DETAIL, REFER TO SHEET E8.1, DETAIL #3.

O. ORIENT LIGHTING POLES HANDHOLES ON THE OPPOSITE SIDE (NON-TRAFFIC SIDE) OF PAVED ROADWAYS/PARKING AREAS U.O.N.

P. FOR BUILDING EXTERIOR, PERIMETER/COURTYARD/CANOPY LIGHTING, REFER TO DRAWINGS E3.1A - E3.1C. ALSO REFER TO ARCHITECTURAL FACADE ELEVATION PLANS.

Q. REFER TO SECURITY ELECTRONICS DRAWINGS FOR DETAILED SECURITY ELECTRONICS (SE) CABLING REQUIREMENTS FOR SE CONDUIT ROUTINGS INDICATED ON THIS SHEET (I.E. FIBER OPTIC CABLING FOR CAMERAS, CARD READERS, INTERCOMS, ETC). REFER TO SHEET ES3.01 AND ES3.02 FOR SE RISER DIAGRAMS AND SHEET ES4.01, DETAIL #4 FOR SE CABLE SCHEDULE.

R. CONTRACTOR SHALL USE LONG RADIUS BENDS FOR ALL COMMUNICATON/SECURITY ELECTRONICS (I.E. FIBER OPTIC CABLING) CONDUITS. MINIMIZE BENDS BETWEEN PULL POINTS TO NO MORE THAN THREE (3) 90 DEGREE BENDS; COORDINATE/COMPLY WITH CABLING MANUFACTURERS PULLING TENSION REQUIREMENTS PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE 1"C MINIMUM (PVC SCHEDULE 40 FOR BURIED FIBER OPTIC CABLING U.O.N.

S. AT BASE OF EACH LIGHTING POLE HANDHOLE, CONTRACTOR SHALL PROVIDE BAYONET BUS(ES), INSULATING LINK, AND INSULATED COMPRESSION FITTING ASSEMBLY. REFER TO DETAILS #6, #7, #8, AND #9 ON DRAWING E8.2

T. REFER TO SPECIFICATION 012300 FOR ALTERNATE BID INFORMATION.

U. ALL 277V BRANCH CIRCUIT CABLING FOR EXTERIOR LIGHTING FIXTURES SHALL BE #12 AWG U.O.N.

KEYNOTES

2656XX 2810XX 270XXX

265601 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 2'-6" AFG. LIGHT POLE SHALL BE 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E8.2 DETAIL #7. PROVIDE 3'-0" SPACING BETWEEN EDGE OF PAVED ROADWAY/PARKING LOT AND EDGE OF CONCRETE POLE FOUNDATION.

265602 LOCATE THE CENTERLINE OF TYPE 'SG' 9'-6" AWAY FROM FLAG POLE. FIELD AIM FIXTURE TO PROVIDE EVEN ILLUMINATION ON THE FLAG AT HALF-STAFF AND FULL-STAFF HEIGHT. MOUNT FIXTURE ON CONCRETE FOOTER; INSTALL FOOTER PER MANUFACTURER RECOMMENDATIONS. REFER TO DETAIL #4, E8.2 FOR CONCRETE BASE. LIGHT FIXTURE MANAUFACTURER SHALL PROVIDE LIGHTING CALCULATION INDICATING EXACT FIXTURE LOCATION AND AIMING REQUIREMENTS PRIOR TO FIXTURE PROCUREMENT. REFER TO DRAWING C6.3, DETAIL #6 FOR FLAGPOLE DETAIL.

265603 EXTERIOR LIGHTING FIXTURE SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK TC2 AND PHOTOCELL. REFER TO DETAIL #2 ON SHEET E8.7. CONTROL VIA CONTACTOR #LC5.

265604 SURFACE MOUNTED TYPE 'SF' LIGHTING FIXTURES ON TOP OF CONCRETE FOUNDATION. FOR LIGHTING INSTALLATION AND CONCRETE FOUNDATION DETAILS, SEE DRAWING E8.2, DETAILS #10 & #11. EMBEDDED JUNCTION BOXES SHALL BE LOCATED FOR A CONCEALED WIRING CONNECTION. FOLLOW MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF BOX PRIOR TO CONSTRUCTION OF THE FOUNDATION.

265605 LOCATE THE CENTERLINE OF TYPE 'SF' FIXTURES 4'-0" FROM THE FACE OF THE MONUMENT SIGN. FIELD AIM FIXTURES TO PROVIDE EVEN ILLUMINATION OF THE ENTIRE FACE OF THE MONUMENT SIGN. FIELD AIM EACH FIXTURE AT THE CENTER HEIGHT OF THE LOWER PORTION OF THE SIGN FOR INITIAL AIMING; FIELD ADJUST AS NECESSARY TO OBTAIN EVEN ILLUMINATION ON THE ENTIRE SIGN FACE (APPROXIMATELY 10 FC AVERAGE VERTICAL). ADJUST AIM TO MAXIMIZE DARK SKIES, USE LIGHT METER AND MEASURE/RECORD POINT BY POINT MEASUREMENTS ON SIGN FACE. SUBMIT TO ENGINEER FOR FINAL APPROVAL OF AIMING PRIOR TO CONSTRUCTION COMPLETION.

265606 (ALTERNATE BID) PROVIDE LIGHTING POLE/FIXTURE, HANDHOLE, LIGHTING DEVICE, BURIED ELECTRIC. REFER TO DIVISION 0 FRONT END SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR ALTERNATES.

265607 FURNISH AND INSTALL ELECTRICAL HANDHOLE. HANDHOLE COVER SHALL BE LABELED "ELECTRICAL". FOR ELECTRICAL HANDHOLE DETAIL, REFER TO SHEET E8.1, DETAIL #4. MINIMIZE SPLICES WITHIN HANDHOLE UNLESS OTHERWISE APPROVED BY ENGINEER.

265608 FURNISH AND INSTALL CONDUIT SLEEVE 5'-0" BEYOND THE HANDHOLE/FOUNDATION FOR FUTURE USE (I.E. FUTURE LIGHTING). CAP CONDUIT END AND FLAG; RECORD LOCATION ON ELECTRICAL RECORD DRAWINGS. FURNISH WITH PULLSTRING IN CONDUIT SLEEVE.

265609 FURNISH AND INSTALL COMMUNICATIONS HANDHOLE. HANDHOLE COVER SHALL BE LABELED "FIBER OPTIC". FOR COMMUNICATION HANDHOLE DETAIL, REFER TO SHEET E8.1, DETAIL #4. SPLICES SHALL NOT BE ACCEPTABLE WITHIN HANDHOLE.

265610 PROVIDE #1/0 BARE COPPER GROUNDING ELECTRODE CABLE LOOP AROUND THE BUILDING PERMIETER FOR COUNTERPOISE GROUNDING SYSTEM. INSTALL IN THE FOOTING TRENCH WITHIN BACKFILLED EARTH MATERIAL (NOT WITHIN AGGREGRATE MATERIAL). BOND TO BUILDING STEEL (I.E. COLUMNS) AT CORNERS OF BUILDING (MINIMUM 4 OPPOSITE CORNERS/LOCATIONS). BOND TO BUILDING REBAR ON EACH SIDE OF BUILDING (MINIMUM 4 OPPOSITE SIDES/LOCATIONS). BOND TO BUILDING MAIN GROUND BUS BAR #1 (IN MAIN ELECTRICAL ROOM #A1066). REFER TO BUILDING GROUNDING ELECTRODE SYSTEM DETAIL ON DRAWING E8.3, DETAIL #1.

265611 GROUND TEST WELL, REFER TO DETAIL #6, SHEET E8.3.

265612 ROUTE CONDUIT UP TO NEMA 4X SECURITY ELECTRONICS ENCLOSURE. REFER TO SECURITY ELECTRONICS (SE) RISER ON SHEET ES3.01. FOR DETAIL REQUIREMENTS. FURNISH AND INSTALL ALL NECESSARY RACEWAYS, SLEEVES, J-BOXES, AND ELECTRICAL APPURTENANCES AS REQUIRED FOR SE EQUIPMENT (I.E. CAMERAS, CARD READERS, INTERCOMS, ETC.) LOCATED AT ENTRY/EXIT GATES. FIELD COORDINATE EXACT LOCATIONS FOR ALL SE/GATE EQUIPMENT WITHIN THIS AREA WITH SE/GATE VENDOR PRIOR TO CONSTRUCTION.

265613 VEHICLE LOOP DETECTOR CABLE FURNISHED BY THE SE/GATE VENDOR. CONTRACTOR SHALL INSTALL/EMBED IN ROADWAY AND CONNECT TO GATE ACTUATOR CONTROL PANEL; FOLLOW MANUFACTURER INSTRUCTIONS FOR INSTALLATION AND TESTING. INSTALL AND CONNECT CABLE PER MANUFACTURER RECOMMENDATIONS TO GATE OPERATOR.

265614 2#10, #10G., 3/4"C. (CIRCUIT #E1PB-29) FOR GATE CONTROLLER.

265615 UTILITY TRANSFORMER FURNISHED AND INSTALLED BY ELECTRIC UTILITY. FURNISH AND INSTALL CONCRETE EQUIPMENT PAD AND ANCHOR UTILITY TRANSFORMER 'UT-1' TO PAD. THE PAD SHALL BE THE "LARGE PIT PAD" U.O.N. FOR CONCRETE TRANSFORMER PAD DETAIL, SEE DETAIL #8 ON SHEET E8.3; FIELD COORDINATE EXACT REQUIREMENTS WITH ELECTRIC UTILITY PRIOR TO CONSTRUCTION. FRONT OF TRANSFORMER SHALL FACE TOWARD THE NORTH (I.E. AWAY FROM BUILDING). GROUNDING AT TRANSFORMER (I.E. GROUNDING ELECTRODE ROD/CABLE) FURNISHED AND INSTALLED BY ELECTRIC UTILITY U.O.N. (FIELD VERIFY WITH ELECTRIC UTILITY).

265616 FURNISH AND INSTALL UTILITY METER CABINET. MOUNT CABINET TO UTILITY TRANSFORMER UT-1 IN ACCORDANCE WITH ELECTRIC UTILITY INSTALLATION REQUIREMENTS. METER SOCKET, CT'S (IN TRANSFORMER) AND CT WIRING FURNISHED AND INSTALLED BY ELECTRIC UTILITY. FIELD COORDINATE WITH ELECTRIC UTILITY.

265617 TOP OF CONCRETE BASE FOR LIGHT POLE SHALL BE 0'-6" AFG. LIGHT POLE SHALL BE 30'-0"H. FOR LIGHTING POLE FOUNDATION DETAIL, REFER TO SHEET E8.2 DETAIL #7. PROVIDE 3'-0" SPACING BETWEEN EDGE OF PAVED ROADWAY/PARKING LOT AND EDGE OF CONCRETE POLE FOUNDATION.

265618 LOCATE THE CENTERLINE OF TYPE 'SJ' FIXTURES 9'-0" FROM THE FACE OF THE MONUMENT SIGN. FIELD AIM FIXTURES TO PROVIDE EVEN ILLUMINATION OF THE ENTIRE FACE OF THE SECONDARY SIGN. FIELD AIM EACH FIXTURE AT THE CENTER HEIGHT OF THE LOWER PORTION OF THE SIGN FOR INITIAL AIMING; FIELD ADJUST AS NECESSARY TO OBTAIN EVEN ILLUMINATION ON THE ENTIRE SIGN FACE (APPROXIMATELY 15 FC AVERAGE VERTICAL). ADJUST AIM TO MAXIMIZE DARK SKIES, USE LIGHT METER AND MEASURE/RECORD POINT BY POINT MEASUREMENTS ON SIGN FACE. SUBMIT TO ENGINEER FOR FINAL APPROVAL OF AIMING PRIOR TO CONSTRUCTION COMPLETION.

265619 2#10, #10G., 3/4"C. (CIRCUIT #E1PA-54) FOR GATE CONTROLLER

265621 FLAGPOLE LIGHTING FIXTURE SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK AND PHOTOCELL. REFER TO DETAIL #2 ON DRAWING E8.7. CONTROL VIA CONTACTOR #LC4.

265622 SURFACE MOUNTED TYPE 'SJ' LIGHTING FIXTURES ON TOP OF CONCRETE FOUNDATION. FOR LIGHTING INSTALLATION AND CONCRETE FOUNDATION DETAILS, SEE SHEET E8.2, DETAILS #10 & #14. EMBEDDED JUNCTION BOXES SHALL BE LOCATED FOR A CONCEALED WIRING CONNECTION. FOLLOW MANUFACTURER INSTRUCTIONS FOR EXACT PLACEMENT OF BOX PRIOR TO CONSTRUCTION OF THE FOUNDATION.

265623 WALL MOUNT PHOTOCELL TO MATCH EXACT MOUNTING HEIGHT OF ADJACENT LIGHTING FIXTURES AS INDICATED ON ARCHITECTURAL ELEVATIONS/ELECTRICAL LIGHTING PLANS. FOR PHOTOCELL WIRING DETAILS, REFER TO EXTERIOR LIGHTING WIRING DIAGRAMS ON SHEET E8.7.

265624 1 #18 TWPR, 3/4"C. ROUTE FROM PHOTOCELL PC1 TO TIMECLOCK TC1.

265625 1 #22 TWPR, 3/4"C. ROUTE FROM PHOTOCELL PC2 TO TIMECLOCK TC2.

265626 EQUIPMENT TO BE MOUNTED ON CONCRETE PAD. ANCHOR ELECTRICAL EQUIPMENT TO CONCRETE PAD. REFER TO DRAWING S3.0 DETAIL #11 FOR THE EXTERIOR EQUIPMENT PAD DETAIL. FURNISH AND INSTALL THE CONCRETE HOUSEKEEPING PAD.

265627 PROVIDE 4" PVC 40 CONDUIT WITH LONG SWEEPING 90 ELBOWS WHERE NEEDED. BURY AT LEAST 3'0" BELOW FINAL GRADE. INCLUDE PULL STRINGS. COORDINATE SOURCE POINT WITH ELECTRICAL UTILITY COMPANY.

A3

265628 (ALTERNATE BID) TWO 4"C FOR BURIED FIBER OPTIC, ONE #2 BARE COPPER EQUIPOTENTIAL GROUNDING ELECTRODE CABLE IN 3/4"C (PVC SCHEDULE 40). BOND ONE END OF GROUNDING ELECTRODE CABLE TO BUILDING TELECOMM GROUND BUS BAR IN EQUIPMENT ROOM #B1008; BOND OTHER END OF GROUNDING ELECTRODE CABLE PER TOWER BUILDING VENDOR REQUIREMENTS. PROVIDE PULL STRINGS IN CONDUIT. USE SWEEPING 90 ELBOWS. STUB CONDUIT 6" AFG MINIMUM IN EQUIPMENT ROOM #B1008.

265629 (ALTERNATE BID) PROVIDE #2 OR COARSER BARE COPPER GROUNDING ELECTRODE CABLE FOR ANTENNA TOWER GROUND RING. GROUND RING SHALL BE BURIED AT LEAST 30" BELOW FINISHED GRADE AND BE AT LEAST 2' FROM TOWER FOUNDATION. CONNECT TOWER AND BUILDING GROUND RINGS AT TWO POINTS USING EXOTHERMIC WELDS. UTILIZE AT LEAST 3 GROUNDING ELECTRODE RODS FOR THE TOWER GROUND RING. GROUND RODS SHALL BE SPACED AT LEAST ONE GROUND ROD LENGTH AWAY, BUT NO MORE THAN TWO LENGTHS AWAY FROM EACH OTHER. BOND EACH LEG OF THE TOWER TO THE TOWER GROUND RING USING #2 GROUNDING CONDUCTORS. CONNECT REBAR OF TOWER FOOTING TO TOWER HOLDING BOLTS. FIELD COORDINATE DETAILED GROUNDING ELECTRODE SYSTEM AND CONNECTIONS WITH ANTENNA TOWER VENDOR PRIOR TO CONSTRUCTION. REFER TO DRAWING E8.7, DETAIL #3 FOR DETAILED ANTENNA TOWER GROUNDING REQUIREMENTS.

265630 (ALTERNATE BID) MOUNT CABLE ENTRY PORT AT +8'-0" AFG ON INTERIOR AND EXTERIOR OF BUILDING. ALIGN ACCORDINGLY. REFER TO SHEET E8.2, DETAIL #15 FOR ENTRY PORT FURNISHED BY TOWER VENDOR.

265631 TEMPORARY GENERATOR SHALL SIT IN THIS LOCATION.

265632 INSTALL 1-1/2" CONDUIT FOR FUTURE POLE BARN. STUB UP +6" AFG IN LOCATION EASILY ACCESSIBLE TO BOTH E1PA AND E1HB. CAP CONDUIT AND PROVIDE PULL STRING FOR FUTURE INSTALLATION OF WIRE.

265633 INSTALL 3/4" CONDUIT FOR FUTURE CARPORT LIGHTING. STUB UP +6" AFG IN LOCATION EASILY ACCESSIBLE TO BOTH E1PA AND E1HB. CAP CONDUIT AND PROVIDE PULL STRING FOR FUTURE INSTALLATION OF WIRE.

265634 PROVIDE 3/4" DIA. X 10'-0"L COPPER CLAD GROUNDING ELECTRODE ROD. BOND TO BUILDING GROUND RING (COUNTERPOISE) WITH EXOTHERMIC WELD.

265635 USE EXOTHERMIC WELD FOR GROUNDING ELECTRODE CABLE CONNECTION.

265636 BOND PERMANENT GENERATOR GEN-1/GENERATOR ENCLOSURE FRAME AND ALTERNATOR GROUND LUG(S) TO THE BUILDING MAIN GROND BUS BAR (IN MAIN ELECTRICAL ROOM #A1066). ALSO BOND ALTERNATOR GROUND LUG(S) TO A DEDICATED GROUNDING ELECTRODE ROD IN ACCORDANCE WITH NEC; BOND GROUNDING ELECTRODE ROD TO THE BUILDING GROUND RING (COUNTERPOISE) WITH #1/0 BAR CU GROUNDING ELECTRODE CABLE.

265637 PORTABLE GENERATOR SHALL BE GROUND TO THE BUILDING GROUNDING ELECTRODE SYSTEM AT THE MANUAL TRANSFER SWITCH MTS-1. BOND MTS-1 GROUND LUG(S) TO BUILDING MAIN GROND BUS BAR (IN MAIN ELECTRICAL ROOM #A1066). ALSO BOND MTS-1 GROUND LUG(S) TO A DEDICATED GROUNDING ELECTRODE ROD IN ACCORDANCE WITH NEC; BOND GROUNDING ELECTRODE ROD TO BUILDING GROUND RING (COUNTERPOISE) WITH #1/0 BAR CU GROUNDING ELECTRODE CABLE.

265638 RACEWAYS FOR PERMANENT GEN-1 ARE NOT INDICATED. REFER TO ONE-LINE DIAGRAM ON DRAWING E7.1 AND CABLE/CONDUIT SCHEDULE ON DRAWING E7.2 FOR POWER AND SIGNAL/CONTROL REQUIREMENTS. RECORD ROUTINGS OF RACEWAYS TO BE INSTALLED ON SITE ELECTRICAL RECORD DRAWINGS.

265639 EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK TC2 AND PHOTOCELL. REFER TO DETAIL #2 ON DRAWING E8.7. CONTROL VIA CONTACTOR #LC6.

265641 REFER TO DRAWING C6.1, DETAIL #12 FOR CONCRETE FOUDNATION OF TYPE 'SH' SECURITY BOLLARDS.

265642 CONNECT THE 120V POWER CIRCUIT TO THE FIBER OPTIC COPPPER CONVERTER BOX FOR THE POLE MOUNTED CAMERA. REFER TO SECURITY ELECTRONICS RISER DIAGRAM ON DRAWING ES3.01.

265643 FURNISH AND INSTALL OUTDOOR GENERATOR GEN-1. MOUNT TO CONCRETE EQUIPMENT PAD. ORIENT GENERATOR SO THAT THE EXHAUST END OF THE GENERATOR FACES TOWARD THE NORTH.

265644 EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK TC1 AND PHOTOCELL. REFER TO DETAIL #1 ON DRAWING E8.7. CONTROL VIA CONTACTOR #LC1.

265645 EXTERIOR LIGHT FIXTURE SHALL BE CONTROLLED ON/OFF VIA TIMECLOCK TC1 AND PHOTOCELL. REFER TO DETAIL #1 ON DRAWING E8.7 CONTROL VIA CONTACTOR #LC2.

265646 RACEWAYS FOR MANUAL TRANSFER SWITCH MTS-1 ARE NOT INDICATED. REFER TO ONE-LINE DIAGRAM ON DRAWING E7.1 AND CABLE/CONDUIT SCHEDULE ON DRAWING E7.2 FOR POWER AND SIGNAL/CONTROL REQUIREMENTS. RECORD ROUTINGS OF RACEWAYS TO BE INSTALLED ON SITE ELECTRICAL RECORD DRAWINGS.

265647 GRINDER PUMP WITH CONTROL PANEL, 3HP, 480V, 3-PHASE. REFER TO SPECIFICATIONS AND CIVIL PLANS FOR DETAILED REQUIREMENTS. CONNECT CONTROL PANEL TO CIRCUT E1HB(31,33,35) USING 3#12+#12G IN 3/4"C. PROVIDE CONNECTION BETWEEN CONTROL PANEL AND GRINDER PUMP PER MANUFACTURER'S RECOMMENDATION. INSTALL EXPLOSION-PROOF SEAL-OFF FITTING FOR ELECTRICAL HAZARDOUS AREAS PER NEC ARTICLE 500. REFER TO DRAWING E8.5, DETAILS #3 AND #4 FOR HAZARDOUS AREA CLASSIFICATION AND SUPPORT DETAILS FOR THE GRINDER PUMP WITH CONTROL PANEL. FIELD COORDINATE LOCATIONS REQURIED WITH ENGINEER AS NECESSARY PRIOR TO CONSTRUCTION.

A3

265648 (ALTERNATE BID) PROVIDE (1) 3"C FOR THE ANTENNA TOWER EQUIPMENT BUILDING. ROUTE FROM ATS-TOW. CONTINUE TO ROUTE CONDUIT FROM ATS-TOW TO MTS-1. REFER TO DRAWING E7.2 FOR WIRING INFORMATION.

265649 PROVIDE (1) 4"C FOR THE DISPATCH EQUIPMENT ROOM #B1008. ROUTE FROM ATS-DIS. CONTINUE TO ROUTE CONDUIT FROM ATS-DIS TO MTS-1. REFER TO DRAWING E7.2 FOR WIRING INFORMATION.

265650 PROVIDE (2) AUTOMATIC TRANSFER SWITCHES. DEVICES SHALL BE IN NEMA-3R ENCLOSURES FOR OUTDOOR USE AND RATED FOR 200A AT 480/277V THREE-PHASE. REFER TO DRAWING E7.1 AND SPECIFICATION 263000 FOR ADDITIONAL INFORMATION.

265651 CONDUIT SHALL BE ENCASED IN AT LEAST 2" OF CONCRETE USING PVC SCHEDULE 40 CONDUIT. REFER TO DRAWING E7.2 FOR WIRING TYPE AND SIZING. REFER TO DRAWING E8.5, DETAIL #2 FOR CONCRETE CONDUIT ENCASEMENT DETAIL.

265652 MANUAL TRANSFER SWITCH 'MTS-1'. CONNECT 30A, 120V BLOCK HEATER RECEPTACLE TO CIRCUIT E1PA-67 USING 2#10+G IN 3/4"C. CONNECT 20A, 120V BATTERY CHARGER RECEPTACLE (E1PA-70), STRIP HEATER (E1PA-68) AND UNIT CONVENIENCE RECEPTACLE (E1PA-72) TO CIRCUITS INDICATED USING 2#12+G IN 3/4"C. COORDINATE EXACT LOCATION WITH EQUIPMENT PROVIDER.

270548 THREE (3)-4"C FOR UTILITY COMMUNICATIONS SERVICES, ONE (1) FOR FIBER OPTIC VOIP/DATA, ONE (1) FOR CATV AND ONE (1) FOR INTERNET SERVICE. COORDINATE EXACT LOCATION WITH OTHER TRADES PRIOR TO CONSTRUCITON. FURNISH AND INSTALL WITH PULLSTRINGS AND MARKER TAPES. USE LONG RADUIS BENDS; PROVIDE NO MORE THAN TWO (2) 90 DEGREE BENDS BETWEEN PULL POINTS. CABLING FURNISHED AND INSTALLED BY COMMUNICATIONS UTILITIES. STUB UP IN EQUIPMENT AND/OR MDF ROOMS AT TELEPHONE TERMINAL BOARDS.

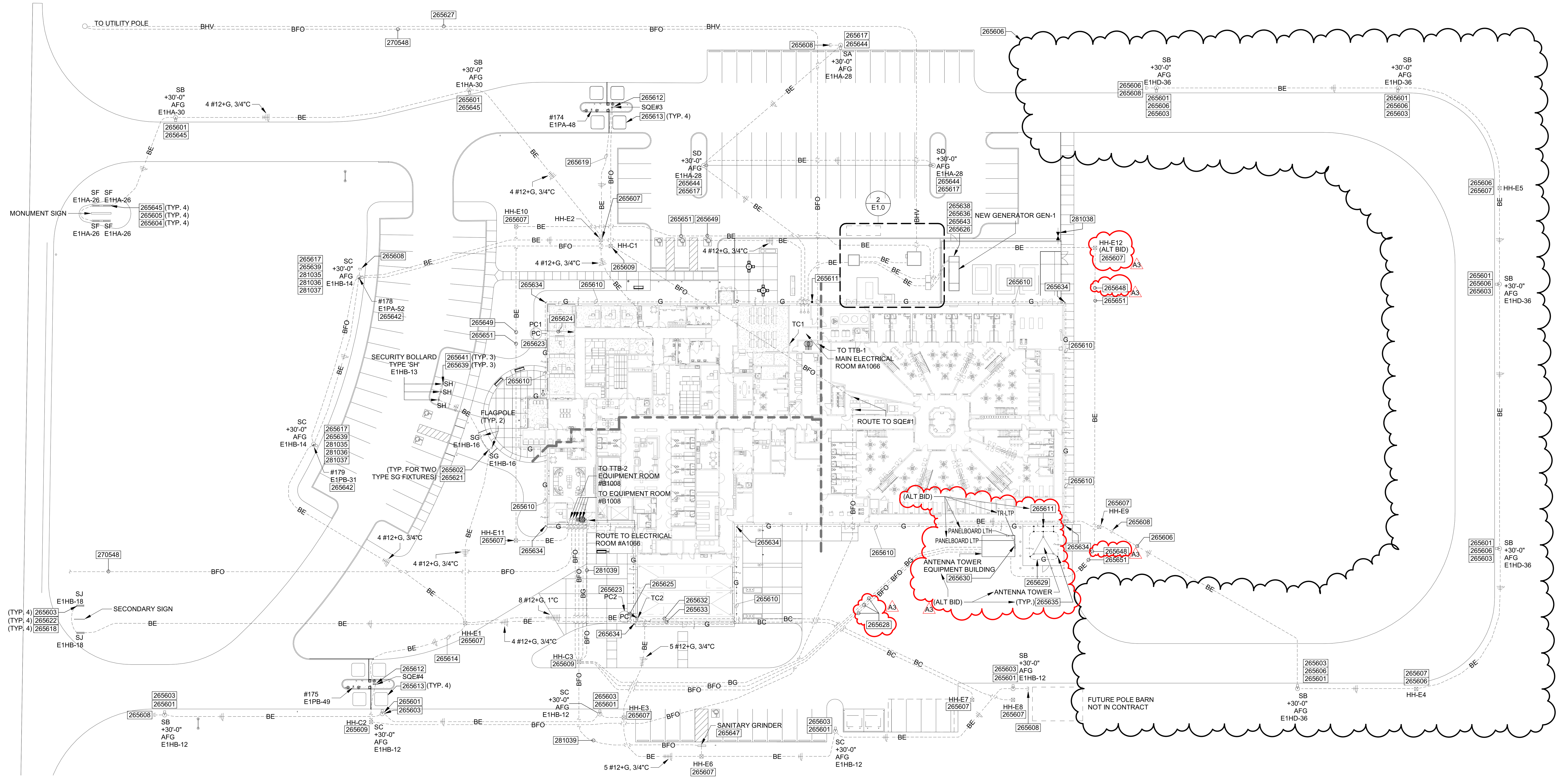
281035 ONE (1) SECURITY CAMERA TO BE MOUNTED ON LIGHTING POLE WITH BOTTOMS AT +15'-0" AFG. REFER TO SECURITY DRAWING ES3.01 FOR MORE INFORMATION.

281036 FURNISH AND INSTALL (1) 6-FIBER, 50 MICRON, MULTI-MODE, OUTDOOR DIRECT BURIED FIBER OPTIC CABLE LIKE WEST PENN #WP9C240T FROM SQE#1 IN SECURITY ELECTRONICS ROOM #C20001. TERMINATE THE FIBER OPTIC CABLE AT A CCTV EQUIPMENT ENCLOSUE; INSTALL CAT 6 CABLE FROM ENCLOSURE TO CAMERA AND/OR ENCLOSURE ON THE LIGHITNG POLE, REFER TO SECURITY ELECTRONICS RISER ON DRAWING ES3.01 AND CABLE SCHEDULE ON DRAWING ES4.01, DETAIL #4 FOR DETAILED WIRING INFORMATION. FIBER OPTIC CABLE SHALL BE DIRECT BURIED AS APPROVED BY SECURITY ELECRONICS VENDOR; USE 1' CONDUIT SLEEVE WTH A LONG RADIUS BEND FOR A STUB-UP AT LIGHTING POLE.

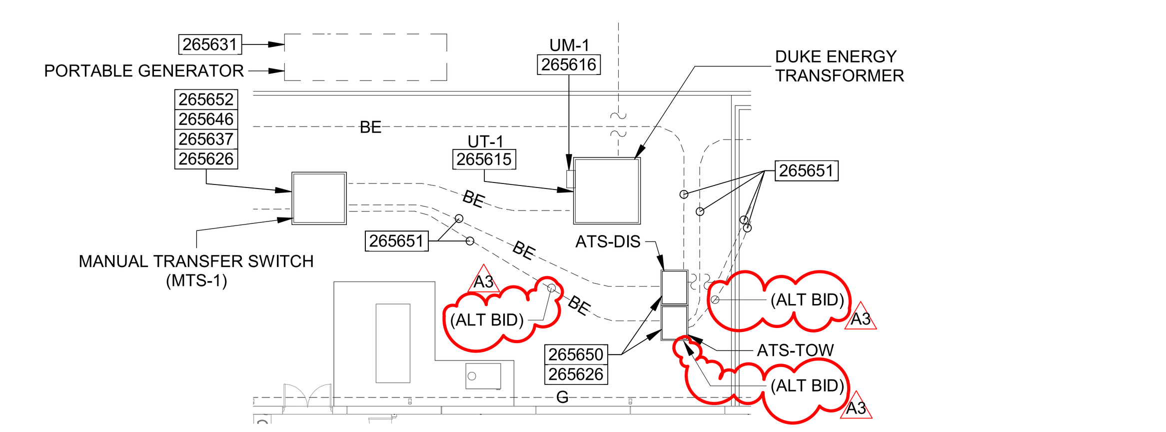
281037 CCTV ENCLOSURE AT BASE OF POLE. FURNISH AND INSTALL 120VAC POWER TO ENCLOSURE. CONNECT CCTV ENCLOSURE TO CIRCUIT SHOWN USING 2 #12, #12G. REFER TO SECURITY DRAWINGS FOR ENCLOSURE INFORMATION

281038 POST INDICATOR VALVE (P.I.V.) REFER TO 'C' SERIES DRAWINGS FOR EXACT LOCATION. FURNISH AND INSTALL 3/4"C BETWEEN P.I.V. AND MDF ROOM #A1067 FOR FIRE ALARM CONNECTION BETWEEN P.I.V. AND FIRE ALARM CONTROL PANEL (FACP), PROVIDE CABLES AS REQUIRED.

281039 PROVIDE 3/4"C OF PVC 40 FOR COMMUNICATIONS CABLING IN CASE OF ALARM FROM THE SANITARY GRINDER. USE SWEEPING 90 ELBOWS. ROUTE TO ELECTRICAL ROOM #A1066.



1 FIRST FLOOR POWER PLAN
SCALE: 1" = 30'-0"
NORTH



2 ENLARGED POWER SITE PLAN
SCALE: 1/16" = 1'-0"
NORTH

DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES
DLZ INDIANA, LLC

02-16-2022
TIMOTHY K. FOUGHT REGISTERED No. PE19700119 STATE OF INDIANA PROFESSIONAL ENGINEER
Timothy K. Fought

NO.	REVISION	DATE
A1	ADDENDUM 1	01/20/22
A3	ADDENDUM 3	02/16/22

DRAWN: RDW, ILB CHK'D: TKF
DESIGNED: RDW, ILB
APPRV'D: TKF
DATE: DECEMBER 20, 2021
PROJECT NUMBER 2063-1048-90

SULLIVAN COUNTY SHERIFF'S OFFICE AND CORRECTIONAL FACILITY
2357 NORTH SECTION STREET SULLIVAN, INDIANA 47882

ELECTRICAL SITE PLAN

Indiana 811
Know what's below. Call before you dig.

DRAWING NUMBER
E1.0
ELECTRICAL

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