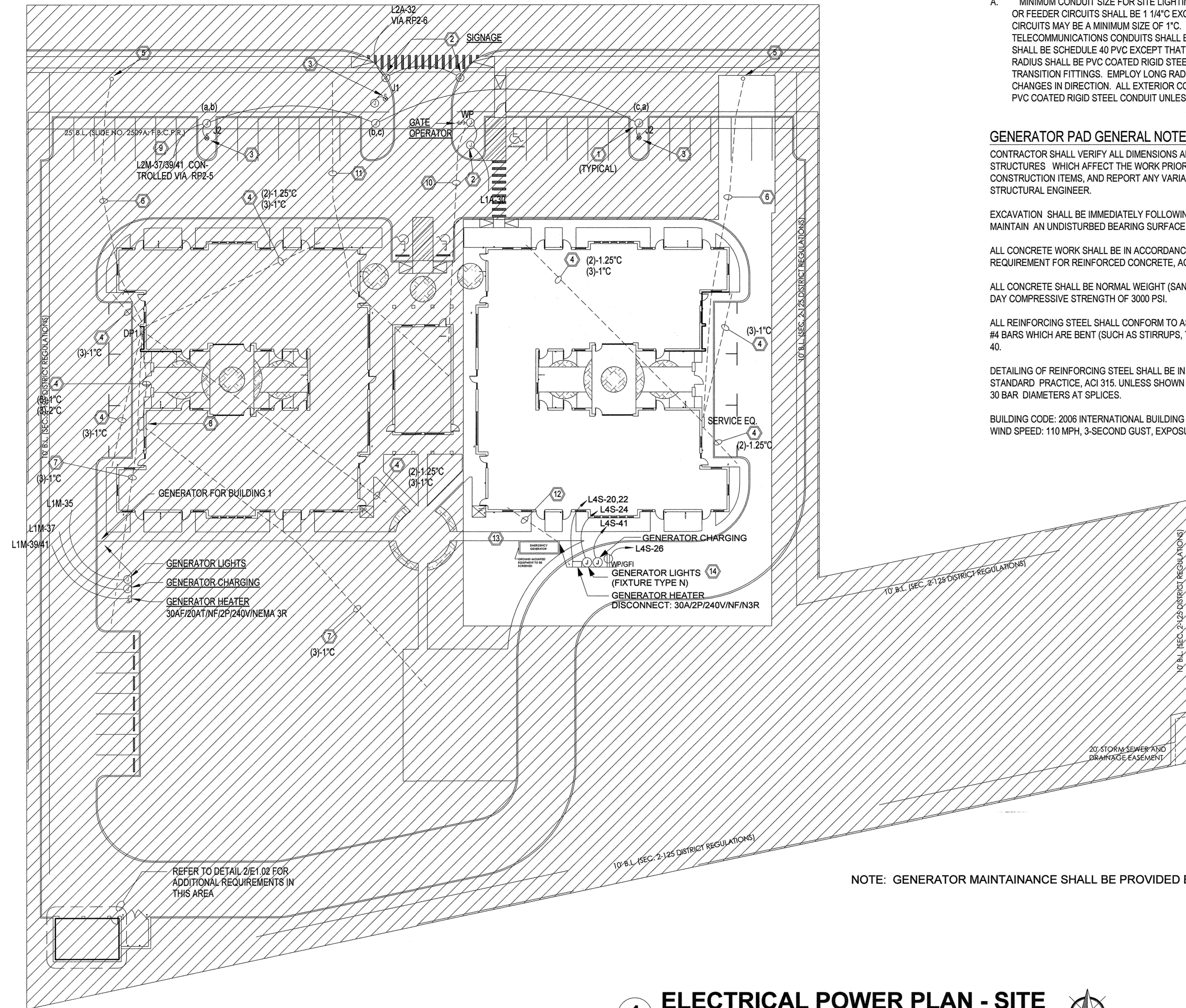
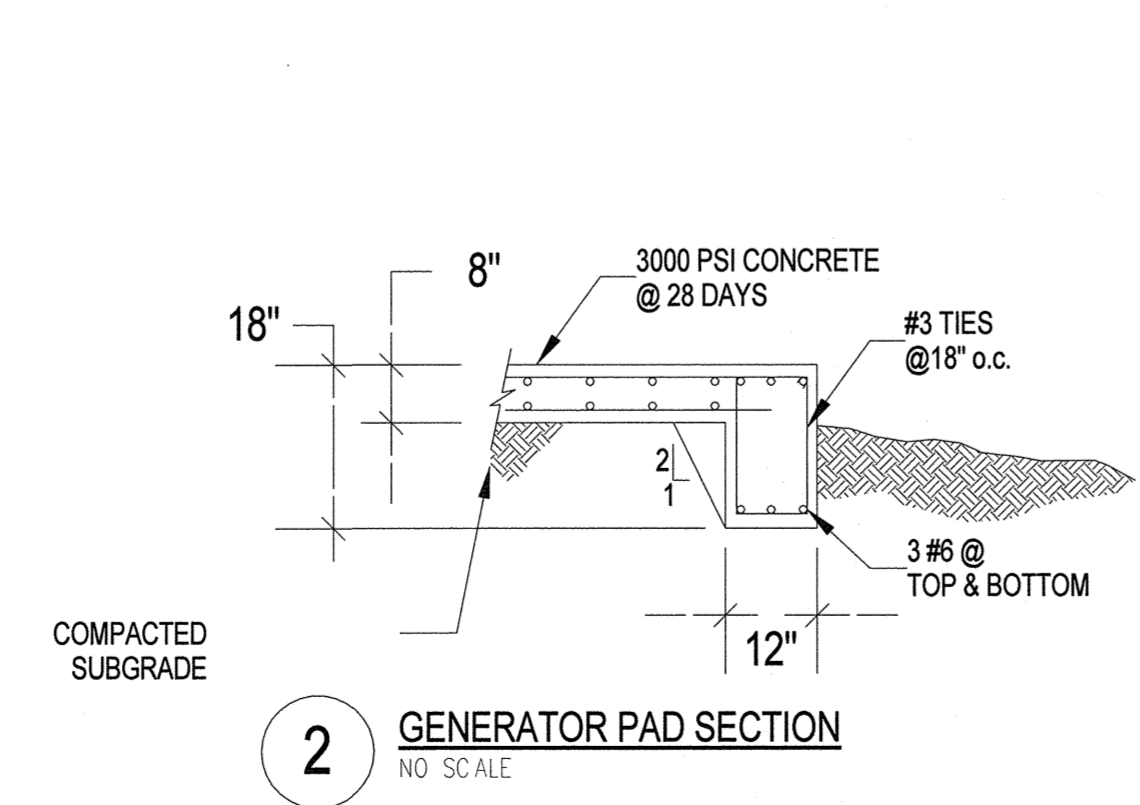


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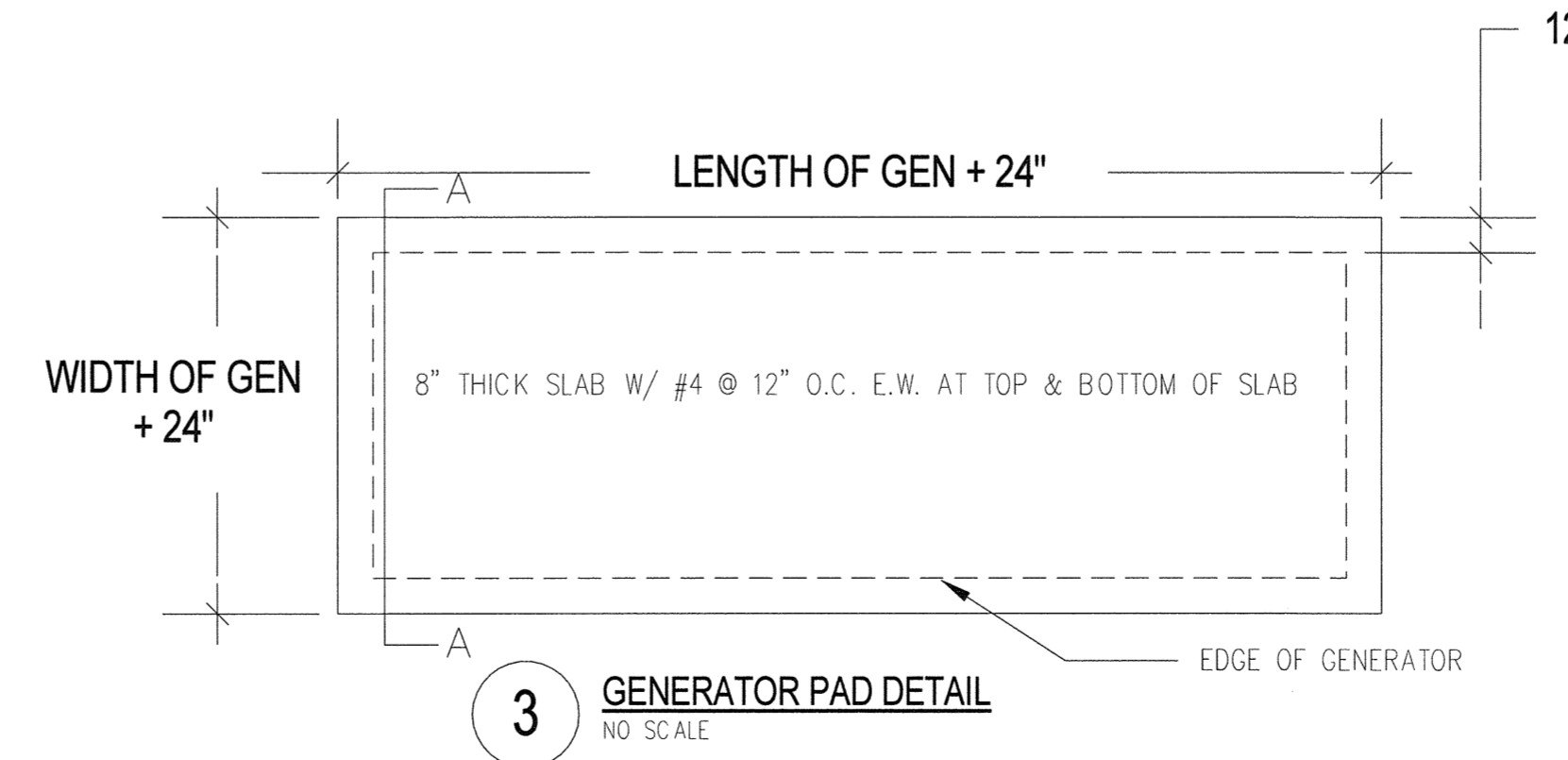


NOTE: GENERATOR MAINTAINANCE SHALL BE PROVIDED BY OWNER.

1 ELECTRICAL POWER PLAN - SITE
 1" = 30'-0"



2 GENERATOR PAD SECTION
 NO SCALE



3 GENERATOR PAD DETAIL
 NO SCALE

REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL PHASING INFORMATION.

SITE ELECTRICAL PLAN GENERAL NOTES:

A. MINIMUM CONDUIT SIZE FOR SITE LIGHTING AND POWER BRANCH CIRCUITS OR FEEDER CIRCUITS SHALL BE 1 1/4" EXCEPT THAT ANY SINGLE 120V, 20A CIRCUITS MAY BE A MINIMUM SIZE OF 1". MINIMUM SIZE FOR EMPTY TELECOMMUNICATIONS CONDUITS SHALL BE 4". UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC EXCEPT THAT 90 DEGREE BENDS LESS THAN 3' RADIUS SHALL BE PVC COATED RIGID STEEL CONDUIT WITH PROPER TRANSITION FITTINGS. EMPLOY LONG RADIUS BENDS FOR HORIZONTAL CHANGES IN DIRECTION. ALL EXTERIOR CONDUITS ABOVE GRADE SHALL BE PVC COATED RIGID STEEL CONDUIT UNLESS OTHERWISE NOTED.

GENERATOR PAD GENERAL NOTES:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT EXISTING STRUCTURES WHICH AFFECT THE WORK PRIOR TO FABRICATION OF ANY CONSTRUCTION ITEMS, AND REPORT ANY VARIATIONS FROM THE DRAWINGS TO THE STRUCTURAL ENGINEER.

EXCAVATION SHALL BE IMMEDIATELY FOLLOWING EXCAVATION PROTECTED TO MAINTAIN AN UNDISTURBED BEARING SURFACE.

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE, ACI 318.

ALL CONCRETE SHALL BE NORMAL WEIGHT (SAND AND GRAVEL) WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 EXCEPT #3 AND #4 BARS WHICH ARE BENT (SUCH AS STIRRUPS, TIES, AND DOWELS) SHALL BE GRADE 40.

DETAILING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE, ACI 315, UNLESS SHOWN OTHERWISE, LAP CONTINUOUS BARS 30 BAR DIAMETERS AT SPLICES.

BUILDING CODE: 2006 INTERNATIONAL BUILDING CODE WIND SPEED: 110 MPH, 3-SECOND GUST, EXPOSURE B.

SITE ELECTRICAL PLAN KEYED NOTES:

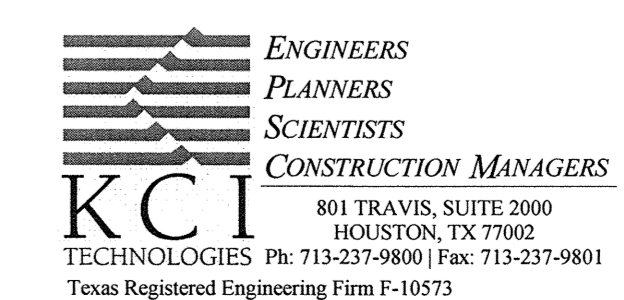
- 1 IN-GRADE PULL BOX LOCATED ADJACENT TO LIGHT POLE (TYPICAL EACH POLE LOCATION). AT EACH PULL BOX LOCATION, PROVIDE (2) COLLARS SUCH THAT IN-GRADE PULL BOX IS AT LEAST 18" BELOW FINISHED GRADE. PROVIDE A CONCRETE BOTTOM FOR THE BOX. WEEP HOLES IN BOTTOM OF BOX. STUB CONDUITS INTO BOX FROM BELOW THE BOTTOM OF THE BOX. EXTEND FROM BOTTOM OF BOX TO NEARBY POLE. PROVIDE TRAFFIC RATED COVERPLATE LABELED "ELEC".
- 2 IN-GRADE PULL BOX LOCATED ADJACENT TO SIGNAGE OR GATE OPERATOR. AT THIS LOCATION, PROVIDE (2) COLLARS SUCH THAT IN-GRADE PULL BOX IS AT LEAST 18" BELOW FINISHED GRADE. PROVIDE A CONCRETE BOTTOM FOR THE BOX. WEEP HOLES IN BOTTOM OF BOX. STUB CONDUITS INTO BOX FROM BELOW THE BOTTOM OF THE BOX. EXTEND FROM BOTTOM OF BOX TO BOTTOM OF NEARBY SIGN OR BOTTOM OF GATE OPERATOR. PROVIDE TRAFFIC RATED COVERPLATE LABELED "ELEC".
- 3 POLE WITH SINGLE OR DOUBLE-HEAD LIGHTING FIXTURE AND FUSIBLE DISCONNECTING MEANS IN HANDHOLE (TYPICAL). BRANCH CIRCUIT FROM ADJACENT PULL BOX TO LIGHT POLE TO BE 2#12 AWG, #12 AWG GROUND, MINIMUM, ROUTED IN 1 1/2" PVC CONDUIT. IN HANDHOLE LOCATION, PROVIDE AN IN-LINE FUSIBLE BOOT WITH WATER-TIGHT DISCONNECTABLE HOUSING, BUSSMAN HEX OR SIMILAR. EXTEND FROM LOAD SIDE OF THE BOOT TO THE LIGHT POLE. CONNECT TO THE TWO PHASES INDICATED, SO AS TO BALANCE LOAD ACROSS THE THREE PHASES OF THE CIRCUIT. REFER TO DETAIL 01/E4.2 FOR ADDITIONAL REQUIREMENTS.
- 4 SPARE CONDUIT STUBS BELOW GRADE FROM ELECTRICAL PANEL LOCATIONS TO APPROXIMATE SITE LOCATIONS INDICATED. STUB CONDUITS BELOW GRADE FROM THE INDICATED PANEL LOCATIONS TO APPROXIMATELY 5' FROM THE EXTERIOR WALL OF BUILDING, PROVIDE PULL STRING AND PROVIDE CAP ENDS. PROVIDE A CONCRETE MARKER BLOCK, 8" X 8" X 12". QUANTITY AND SIZE OF EMPTY CONDUITS INDICATED TO KEYED NOTE. AT PANELBOARD LOCATIONS, STUB CONDUITS TO APPROXIMATELY 3' ABOVE GRADE, CAP AND IDENTIFY CONDUITS AS "SITE SPARE".
- 5 APPROXIMATE LOCATION OF UTILITY POLE WITH TRANSFORMERS TO SERVE THIS BUILDING. COORDINATE EXACT LOCATION WITH UTILITY COMPANY.
- 6 APPROXIMATE ROUTING OF SERVICE ENTRANCE TO THE PANEL INDICATED.
- 7 SPARE CONDUIT STUBS LOCATED BELOW GRADE FROM ELECTRICAL PANEL LOCATIONS OR FUTURE ELECTRICAL PANEL LOCATIONS TO APPROXIMATE SITE LOCATIONS INDICATED. STUB CONDUITS BELOW GRADE TO APPROXIMATE LOCATIONS SHOWN, PROVIDE PULL STRING AND PROVIDE CAP AT BOTH ENDS. PROVIDE A CONCRETE MARKER BLOCK, 8" X 8" X 12". QUANTITY AND SIZE OF EMPTY CONDUITS INDICATED ADJACENT TO KEYED NOTE. AT PANELBOARD LOCATIONS, STUB CONDUITS TO APPROXIMATELY 3' ABOVE GRADE, CAP AND IDENTIFY CONDUITS AS "SITE SPARE".
- 8 APPROXIMATE LOCATION OF FUTURE PANELBOARD.
- 9 CIRCUIT CONTROLLED VIA LIGHTING CONTACTOR. CONTACTOR TO BE 6 POLE, GE CR490 SERIES, MECHANICALLY HELD TYPE WITH 2-WIRE CONTROL IN A NEMA 1 ENCLOSURE LOCATED NEAR CEILING IN LAUNDRY ROOM (ADJACENT TO PANELBOARD SERVING THE CONTACTOR). CONTACTOR TO OBTAIN "OPEN/CLOSE" SIGNAL FROM THE INDICATED RELAY PANEL.
- 10 (1) 1" CONDUIT WITH PULL STRING FROM THE GATE OPERATOR CONTROLLER LOCATION TO THE RECEPTION AREA IN ADMIN BUILDING FOR OPEN/CLOSE/LOCKOUT AND COMMUNICATIONS FEATURES FOR THE GATE OPERATOR. COORDINATE EXACT LOCATION AND EXACT REQUIREMENTS OF CONTROLLER LOCATION WITH GATE INSTALLER. AT RECEPTION AREA, PROVIDE A CUSTOM BACKBOX AS RECOMMENDED BY GATE INSTALLER, CONNECT WITH THE 1" CONDUIT. COORDINATE EXACT REQUIREMENTS AT THE RECEPTION AREA WITH GATE INSTALLER AND ARCHITECT PRIOR TO ROUGH-IN.
- 11 APPROXIMATE ROUTING OF (4) 4" TELECOMMUNICATIONS CONDUITS FROM EDGE OF PROPERTY TO THE TELEPHONE BACKBOARD AT I.T. CLOSET IN ADMIN BUILDING FOR TELECOMMUNICATIONS SERVICE ENTRANCE. COORDINATE EXACT TELEPHONE CONDUIT TERMINATION LOCATION AT PROPERTY EDGE WITH TELEPHONE UTILITY PRIOR TO ROUGH-IN. PROVIDE PULL STRING IN EACH CONDUIT. CAP AT EDGE OF PROPERTY. STUB TO APPROXIMATELY 3' ABOVE FINISHED FLOOR AT I.T. CLOSET. COORDINATE EXACT LOCATION OF CONDUIT STUBS IN THE I.T. CLOSET WITH THE OWNER'S TELECOMM CONSULTANT.
- 12 CONDUIT BELOW GRADE FROM GENERATOR ANNUNCIATOR PANEL IN OFFICE. CONTRACTOR SHALL FIELD COORDINATE LOCATION OF STUB UP PRIOR TO ROUGH IN. PROVIDE PULL STRING AND PROVIDE CAP ENDS.
- 13 PROVIDE REMOTE GENERATOR MANUAL STOP STATION. PROVIDE A LABEL CLEARLY MARKING REMOTE MANUAL STOP STATION. FIELD COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 14 CONTROLS FOR GENERATOR LIGHTS SHALL MATCH EXISTING CONTROLS FOR GENERATOR #1.

THE SCOPE OF THESE DRAWINGS IS LIMITED THE BUILDING IN THE NON-HATCHED REGION (PHASE 2). CONSTRUCTION FOR THE HATCHED REGION (PHASE 1) HAS BEEN COMPLETED.

OPTIMUM CARE
SUGAR LAND, TEXAS



Revision Schedule		
#	Date	Description
3	09-04-15	PERMIT REVISIONS



Project No.
 SITE ELECTRICAL PLAN
 Sheet No.

E1.01