

VOLTAGE DROP CALCULATIONS

Circuit Number	Distance (L)	Distance Calc	Branch	Watts On 120V Pole	Section Wattage Calc	Amps (I)	Wire Size	Section VD	Voltage Drop
HA-18	140	180		166	488	1.04	10	0.09%	0.09%
pole #1	215	255		166	332	0.69	10	0.08%	0.17%
pole #2	130	170		166	166	0.35	10	0.03%	0.19%

Circuit Number	Distance (L)	Distance Calc	Branch	Watts On 120V Pole	Section Wattage Calc	Amps (I)	Wire Size	Section VD	Voltage Drop
HA-32	80	150		166	864	1.38	10	0.08%	0.08%
pole #1	140	180		166	488	1.04	10	0.09%	0.18%
pole #2	80	130		166	332	0.69	10	0.04%	0.20%
pole #4	90	130		166	166	0.35	10	0.02%	0.22%

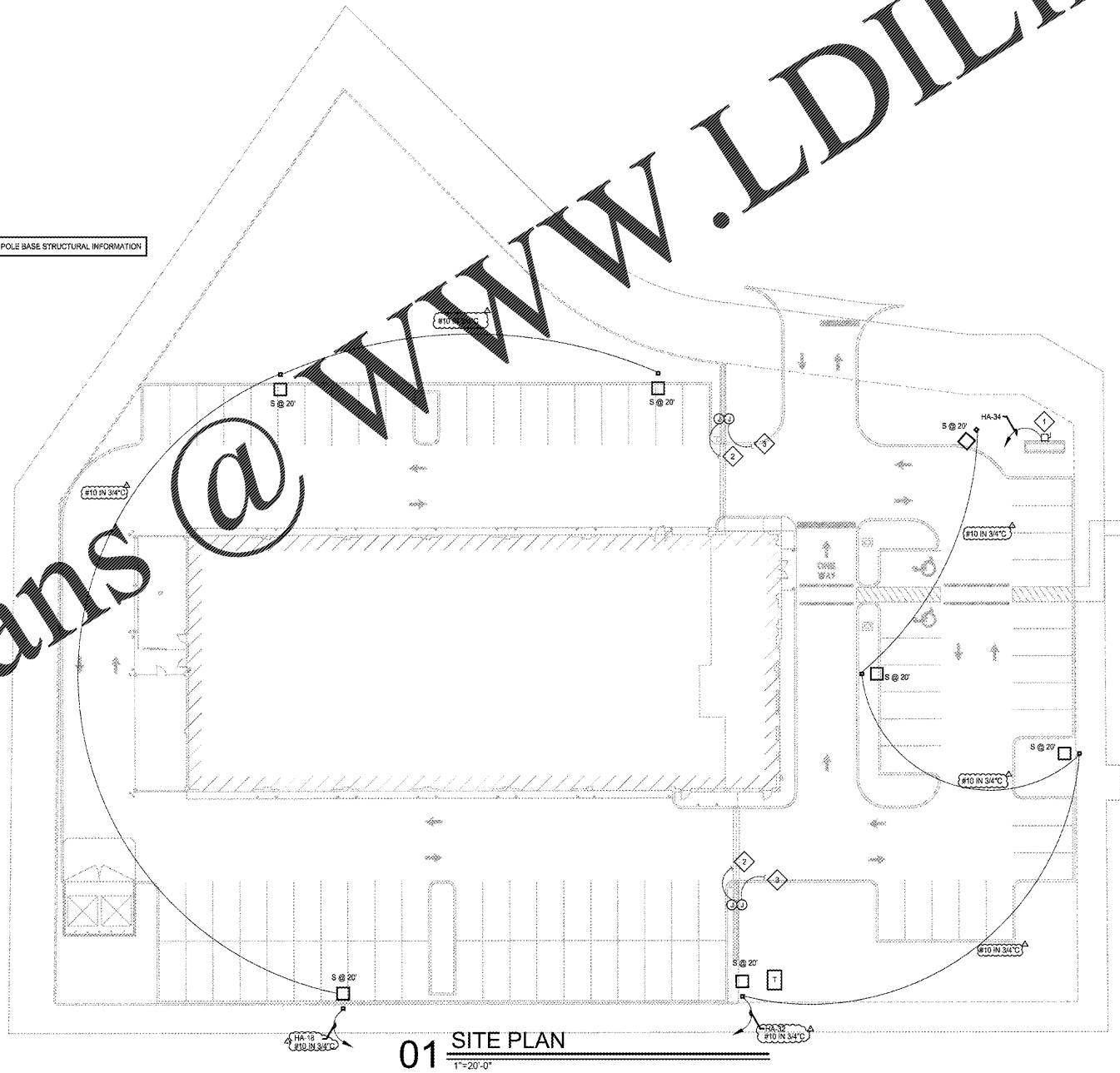
GENERAL ELECTRICAL NOTES

- A. COORDINATE EASEMENT ON CENTERLINE OF UNDERGROUND PRIMARY WITH UTILITY COMPANY AND CIVIL ENGINEER.
- B. CONTRACTOR AND SURVEYOR SHALL COORDINATE PLACEMENT AND ROUTING OF CONDUITS WITH UTILITY COMPANY PRIOR TO INSTALLATION. COORDINATE EXACT CONDUIT SIZES AND QUANTITIES WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- C. ELECTRICAL INFORMATION SHOWN ON THIS PLAN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. SPECIFIC JOB SITE CONDITIONS SHALL BE FIELD VERIFIED. ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR SAID FIELD CONDITIONS AND ASSOCIATED REVISIONS REQUIRED BY THE RESPECTIVE COMPANIES INVOLVED.
- D. CONTACT TELEPHONE, CABLE TV, AND UTILITY COMPANIES TO VERIFY ALL REQUIREMENTS AND EQUIPMENT. IN ADDITION, FURNISH AND INSTALL ALL WIRING, BOXES, CONDUIT, CONCRETE PADS, TRENCHING AND BACKFILL, ETC. AS NECESSARY FOR PROPER INSTALLATION.
- E. FIELD VERIFY, IN THE PRESENCE OF RESPECTIVE UTILITY COMPANY REPRESENTATIVE(S), THE LOCATIONS OF ALL EXISTING UTILITY SERVICES AND EQUIPMENT, AND THE PROPOSED LOCATIONS OF ALL NEW UTILITY SERVICES AND EQUIPMENT. NO ALLOWANCES WILL BE MADE FOR THE CONTRACTOR'S UNFAMILIARITY WITH THE EXISTING CONDITIONS, REQUIREMENTS OF THE NEW LOCATIONS, AND/OR FAILURE TO COORDINATE INSTALLATION.
- F. CONTACT LOCAL ELECTRICAL CODE ENFORCEMENT AUTHORITIES AND LOCAL FIRE MARSHALL. VERIFY ALL REQUIREMENTS AND EQUIPMENT, AND FURNISH AND INSTALL ALL ELECTRICAL ITEMS NECESSARY FOR PROPER INSTALLATION IN STRICT ACCORDANCE WITH THE GUIDELINES AND INTERPRETATIONS SET FORTH BY THESE GOVERNING LOCAL AUTHORITIES BEYOND THOSE SET FORTH IN THE NEC AND NFPA. NO ALLOWANCES WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO COORDINATE ALL SUCH REQUIREMENTS WITH SAID LOCAL AUTHORITIES.
- G. LIMIT ALL BRANCH CIRCUITRY TO 3% VOLTAGE DROP AND ALL FEEDERS TO 2% VOLTAGE DROP.

ELECTRICAL NOTES BY SYMBOL "◇"

- 1. PROVIDE POWER FOR MONUMENT SIGN. COORDINATE EXACT LOCATION OF MONUMENT SIGN WITH CIVIL AND EXACT ELECTRICAL REQUIREMENTS WITH SIGN MANUFACTURER. SIGN ALLOWED TO BE ILLUMINATED DURING REGULAR BUSINESS HOURS AND MUST NOT BE ILLUMINATED LATER THAN 1/2 HOUR AFTER THE BUSINESS IS NO LONGER OPEN TO THE PUBLIC. SIGNAGE SHALL BE ILLUMINATED NO GREATER THAN 7 FOOTCANDLES MEASURED AT 5'-0" FROM THE LIGHT SOURCE.
- 2. PROVIDE POWER FOR MOTORIZED GATE. VERIFY EXACT LOCATION WITH GATE VENDOR AND OWNER PRIOR TO INSTALLATION.
- 3. ROUTE (1) 3/4" CONDUIT WITH PULL STRING FROM FUTURE GATE UNDERGROUND TO RECEPTION DESK FOR FUTURE ACCESS PAD. VERIFY ALL LOCATIONS WITH GATE VENDOR AND OWNER PRIOR TO INSTALLATION.

REFER TO DETAIL 06ES 1 FOR ADDITIONAL LIGHT POLE BASE STRUCTURAL INFORMATION



01 SITE PLAN
1"=20'-0"

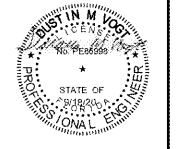
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CALIBER COLLISION

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NO.	DATE	BY	DESCRIPTION	REVISIONS
1	08/19/20	JFR	BUILDING DEPARTMENT CORRECTIONS	

SITE PLAN

CALIBER COLLISION

2300 GRIFIN RD
LAKELAND, FL
PROJECT NO. 202002

FILE NAME: 192006
DRAWN BY: SZK
DATE: 08/19/2020
REVIEWED BY: DMV

E1.1