

LIGHTING FIXTURE SCHEDULE

NOTES:

** FINISH TO BE SELECTED BY ARCHITECT | FIXTURE COUNT IS PROVIDED FOR REFERENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QTY.

MARK	DESCRIPTION	LAMPS	VOLTS	LOAD	TEMP.	LUMENS	MOUNTING	MANUFACTURER	CATALOG NO.
A	2'X2' TROFFER	LED UNV	44 VA	3,500	4,600	GRID	COOPER		R2X-WO-6-L35-LD5-UNV-22-**-STD
AE	2'X2' TROFFER WITH BATTERY BACKUP	LED UNV	44 VA	3,500	4,600	GRID	COOPER		R2X-WO-6-L35-LD5-UNV-22-**-STD-EL14W
B	6" DOWNLIGHT	LED UNV	52 VA	3,500	4,500	RECESSED	COOPER		LDA6A-45-8-35-D010TE
BE	6" DOWNLIGHT WITH BATTERY BACKUP	LED UNV	52 VA	3,500	4,500	RECESSED	COOPER		LDA6A-45-8-35-D010TE-EM7
D	2' LED VANITY LIGHT	LED UNV	20 VA	3,500	1,700	WALL	ASD LIGHTING		ASD-LVF23-24D25CC-**
EM	EMERGENCY LIGHTING UNIT EQUIPMENT WITH TWO ADJUSTABLE LED HEADS. INTEGRAL BATTERY WITH SELF-DIAGNOSTICS.	LED UNV	2 VA	N/A	N/A	CEILING/WALL	SURE LITES		SEL25
F1	4' STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED UNV	30 VA	3,500	5,000	SUSPENDED	COOPER		4SLSTPSLC-UNV
F2	4' STRIP LIGHT WITH SEMI-FROSTED LENS.	LED UNV	30 VA	3,500	5,000	SURFACE	COOPER		4SLSTPSLC-UNV
F3	8' LED STRIP LIGHT WITH SEMI-FROSTED LENS. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED UNV	50 VA	3,500	8,000	SUSPENDED	COOPER		8SLSTPSLC-UNV
G	24'X15' WET LOCATION HIGHBAY. PROVIDE SUSPENSION HARDWARE AS REQUIRED.	LED UNV	200 VA	3,500	32,000	SUSPENDED	BARRON		NHBL-255
H	FLAG POLE FLOOD LIGHT FIXTURE. CONTRACTOR SHALL INCLUDE ALL NECESSARY MOUNTING EQUIPMENT AND AIM & ORIENT FIXTURE AT NIGHT.	LED UNV	26 VA	4,000	2,900	GRADE	COOPER		TCRL-26-S
P	PARKING LOT FIXTURE WITH INTEGRAL MOTION SENSOR AND PHOTOCELL. POLE SHALL BE PROVIDED WITH FOUNDATION REFER TO DETAILS FOR MORE INFORMATION.	LED UNV	120 VA	4,000	9,500	18' RSS POLE	COOPER		PRV-PA2-B-8540-L-T3-SA-**-WPS4XX
W	ARCHITECTURAL LED WALL PACK WITH INTEGRAL MOTION AND PHOTOCELL FOR MOUNTING HEIGHTS BETWEEN 8'-15'.	LED UNV	50 VA	4,000	6,000	WALL	LUMARK		AXCL6A-**-WPS4XX
WE	ARCHITECTURAL LED WALL PACK WITH BATTERY BACKUP AND INTEGRAL MOTION AND PHOTOCELL FOR MOUNTING HEIGHTS BETWEEN 8'-15'.	LED UNV	50 VA	4,000	6,000	WALL	LUMARK		AXCL6A-**-WPS4XX-CBP
X	EDGE LIT EXIT SIGN WITH RED LETTERS. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED. FIXTURE SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP AND SELF-DIAGNOSTICS.	LED UNV	1 VA	N/A	N/A	CEILING/WALL	SURE LITES		EU
XC	COMBO UNIT EXIT SIGN WITH RED LETTERS AND TWO ADJUSTABLE LED HEADS. PROVIDE WITH NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED. FIXTURE SHALL BE PROVIDED WITH INTEGRAL BATTERY BACKUP AND SELF-DIAGNOSTICS.	LED UNV	1 VA	N/A	N/A	CEILING/WALL	SURE LITES		LPXC
Z	WET LOCATION LED EMERGENCY UNIT EQUIPMENT WITH INTEGRAL BATTERY BACKUP	LED UNV	1 VA	N/A	N/A	WALL	SURE LITES		SELW-25-**

MECHANICAL CONNECTION SCHEDULE

1. WHERE THE BREAKER RATING OF EQUIPMENT SERVED IS GREATER THAN THE DISCONNECT RATING ILLUSTRATED IN THE SCHEDULE, CONTRACTOR SHALL UPSIZE ACCORDINGLY TO PROVIDE PROPER PROTECTION TO THE EQUIPMENT SERVED.

MARK	SUPPLY FROM	CIRCUIT	REMARKS
AHU-1	LA	64,66,68	PROVIDE 60A/3P/N1/FUSED DISCONNECT
AHU-2	LA	70,72,74	PROVIDE 60A/3P/N1/FUSED DISCONNECT
AHU-3	LA	76,78,80	PROVIDE 60A/3P/N1/FUSED DISCONNECT
AHU-4	LA	82,84,86	PROVIDE 60A/3P/N1/FUSED DISCONNECT
AHU-5	LA	88,90,92	PROVIDE 60A/3P/N1/FUSED DISCONNECT
CU-1	MDP	2,4,6	PROVIDE 30A/3P/N3R/FUSED DISCONNECT
CU-2	MDP	8,10,12	PROVIDE 30A/3P/N3R/FUSED DISCONNECT
CU-3	MDP	14,16,18	PROVIDE 30A/3P/N3R/FUSED DISCONNECT
CU-4	MDP	20,22,24	PROVIDE 30A/3P/N3R/FUSED DISCONNECT
CU-5	MDP	26,28,30	PROVIDE 30A/3P/N3R/FUSED DISCONNECT
EF-1	MDP	3	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-2	MDP	3	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-3	MDP	3	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-4	MDP	3	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-5	MDP	1	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-6	MDP	1	INTERCONNECT WITH LIGHTING FOR POWER AND CONTROL
EF-7	MDP	32,34,36	PROVIDE 30A/3P/N1/FUSED DISCONNECT
EF-8	MDP	38,40,42	PROVIDE 30A/3P/N1/FUSED DISCONNECT
EUH	LA	106,110,112	PROVIDE 30A/3P/N1/FUSED DISCONNECT
MSAHU-1	LA	94,96	PROVIDE (1)1" C. AND CONDUCTOR TO ASSOCIATED OUTDOOR UNIT PER MANUFACTURER SPECIFICATIONS
MSAHU-2	LA	98,100	PROVIDE (1)1" C. AND CONDUCTOR TO ASSOCIATED OUTDOOR UNIT PER MANUFACTURER SPECIFICATIONS
MSCU-1	LA	94,96	PROVIDE 30A/2P/N3R/FUSED DISCONNECT
MSCU-2	LA	98,100	PROVIDE 30A/2P/N3R/FUSED DISCONNECT
UH-1	LA	102	PROVIDE 30A/1P/N1/FUSED DISCONNECT
UH-2	LA	104	PROVIDE 30A/1P/N1/FUSED DISCONNECT
WH-1	LA	106	PROVIDE 30A/1P/N1/FUSED DISCONNECT

4-WIRE FEEDER SCHEDULE - COPPER

STD. FUSE OR BKR TRIP SIZE	# OF SETS	THHN/THWN-2/XHHW CONDUCTORS	CONDUIT SIZE (MINIMUM)	GROUNDING ELECTRODE CONDUCTOR (REFER TO SUBSCRIPT GEC)
----------------------------	-----------	-----------------------------	------------------------	--

100	1	4#3, 1#8 GND	1-1/4"	#8
400	2	4#3/0, 1#3 GND	2"	#2

NOTES:

- ALL FEEDER SIZES LISTED MAY NOT BE SHOWN IN POWER RISER DIAGRAM.
- ELECTRICAL CONTRACTOR TO VERIFY SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
- REFER TO THE 2020 EDITION OF THE NEC FOR CONDUIT TYPES REQUIRED PER THEIR TABLES.
- GROUND SIZES INDICATED IN SCHEDULE ARE PER NEC 250.122. REFER TO NEC 250.66 FOR GROUND SIZE AT SEPARATELY DERIVED SYSTEMS.

SUBSCRIPTS:

VD - INDICATES UPSIZED FOR VOLTAGE DROP

XXX VD

N - INDICATES NO NEUTRAL REQUIRED

XXX N

G - INDICATES NO GROUND REQUIRED

XXX G

GEC - INDICATES GROUND WIRE SHALL BE PER NEC 250.66. REFER TO GROUNDING ELECTRODE CONDUCTOR GEC COLUMN FOR SIZING INFORMATION.

XXX GEC

SURGE PROTECTIVE DEVICE SCHEDULE

DESIGNATION	MODEL OR EQUAL	SURGE RATING (PER MODE)	VOLTAGE	MODES OF PROTECTION	AUDIBLE ALARM	TRANSIENT COUNTER	MODBUS & INTERNET CONNECTIVITY	INTEGRAL DISCONNECT	CIRCUIT BREAKER	FEEDER
SPD "C"	ABB #CG-2004803YPNM2F	200kA	277/480V, 3Ø, 4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	100A-3P	5#2 IN 1-1/4" C
SPD "B"	ABB #CG-1004803YPNM2F	100kA	277/480V, 3Ø, 4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	60A-3P	5#6 IN 1" C
SPD "A"	ABB #CG-0502083YPNM2F	50kA	120/208V, 3Ø, 4W	L-N,L-G,N-G, & L-L	YES	YES	NO	NO	60A-3P	5#6 IN 1" C

DRY TYPE TRANSFORMER SCHEDULE
480V DELTA - 208 WYE

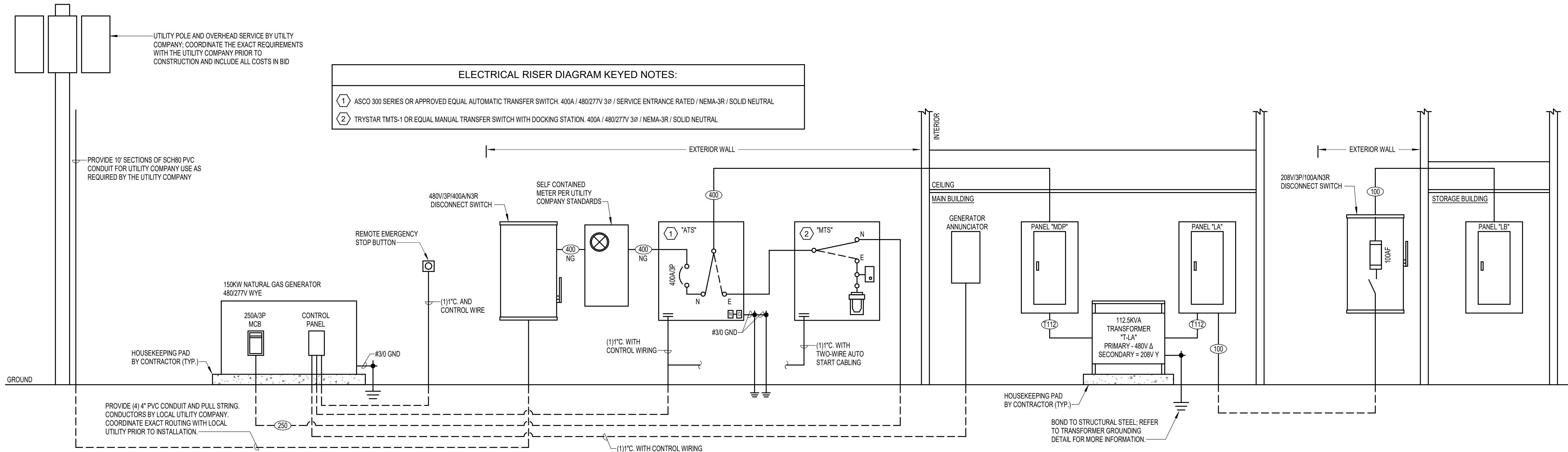
MARK	KVA	PRIMARY AMPS	SECONDARY AMPS	480 VOLT OVERCURRENT PROTECTION (SEE NOTE #3)	208 VOLT OVERCURRENT PROTECTION (SEE NOTE #1 & #3)	480V FEEDER	208V FEEDER	GROUNDING ELECTRODE CONDUCTOR (SEE NOTE #2)
T112.5	112.5	135	313	200A/3P	400A/3P	3#3/0, 1#6 GND & 2" C.	(2 SETS) #4/0, 1#1/0 GND & 3" C.	1#1/0

NOTES:

- SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN (10) FEET OF THE TRANSFORMER SECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER) OR A INDIVIDUALLY MOUNTED CIRCUIT BREAKER
- TRANSFORMER BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR (COPPER OR ALUMINUM CONDUCTORS). BOND THE NEUTRAL OF THE TRANSFORMER SECONDARY TO THE TRANSFORMER CASE, WITH BONDING JUMPER. GROUND THE CASE OF THE TRANSFORMER WITH THE GROUNDING ELECTRODE CONDUCTOR TO THE NEAREST AVAILABLE EFFECTIVELY GROUNDED STRUCTURAL METAL MEMBER OF THE STRUCTURE, OR THE NEAREST AVAILABLE EFFECTIVELY GROUNDED METAL WATER PIPE OR OTHER ELECTRODES AS SPECIFIED IN NEC ARTICLE 250 WHERE THE PRECEDING ELECTRODES ARE NOT AVAILABLE.
- IN THE EVENT THAT THE OVERCURRENT DEVICE INDICATED IN THE PANEL SCHEDULE DIFFERS FROM THE SIZE INDICATED IN THE TABLE CONTRACTOR SHALL CONTACT ENGINEER FOR CLARIFICATION.

ELECTRICAL RISER DIAGRAM KEYED NOTES:

- ASCO 300 SERIES OR APPROVED EQUAL AUTOMATIC TRANSFER SWITCH. 400A / 480/277V 3Ø / SERVICE ENTRANCE RATED / NEMA-3R / SOLID NEUTRAL
- TRYSTAR TMTS-1 OR EQUAL MANUAL TRANSFER SWITCH WITH DOCKING STATION. 400A / 480/277V 3Ø / NEMA-3R / SOLID NEUTRAL

1 ELECTRICAL RISER DIAGRAM
N.T.S.

Consultant

YYTJMMDD

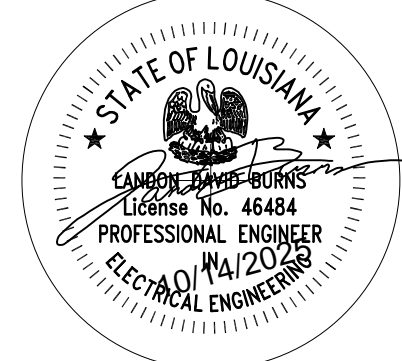
Aspd

By

Revision

Design Phase Acceptance

Permit/Seal

Client/Project
CITY OF NATCHITOCHES

NEW FIRE STATION NO. 3

NATCHITOCHES, LOUISIANA

Project No.: 222706059

File Name: 25-035 TB - STANTEC_ARCH_D_VERT

Scale:

Dwn. Dgn. Chkd. 2025.09.26
YYYY-MM-DD

Title

ELECTRICAL RISER DIAGRAM

Revision: Sheet: of

Drawing No. E600



THOMPSON LUKE & ASSOCIATES, L.L.C.
10705 Rieger Road., STE 101 Baton Rouge, LA 70809
(225)293-9474 | www.tlaeng.com | office@tlaeng.com
TLA PROJECT # 25-035
Frank Saville Thompson - License No. 28854
London David Burns - License No. 46484

