PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

PANEL: **A** NEW PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: 400A MCB ACCESSORIES: FEED–THROUGH LUGS

CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED

CODE	LOAD	CIRCUIT DESCRIPTION	BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE
1	900	REC. LOBBY	20/1	1	A	2	20/1	INTERIOR LIGHTING	997	0
2	600	TV LOBBY	20/1	3	B	4	20/1	INTERIOR LIGHTING	491	0
1	720	REC.	20/1	5	C	6	20/1	EXTERIOR LIGHTING	721	0
2	300	PC	20/2	7	A	8	20/2	PARKING LOT LIGHTING	1080	0
1	720	REC.	–	9	B	10	–	PARKING LOT LIGHTING	1080	0
2	900	PC	20/2	11	C	12	20/1	MONUMENT SIGN	1200	0
1	1440	REC.	–	13	A	14	20/1	LIGHTING	500	0
2	600	PC	20/2	15	B	16	20/1	MONUMENT SIGN	1200	0
1	1080	REC.	–	17	C	18	20/1	ATM	500	2
2	600	EDF	20/1	19	A	20	20/1	TRANSACTION PEDESTAL	1000	2
1	900	GFI REC.	20/1	21	B	22	20/1	TUBE STATION	1000	2
2	1200	COPIER	20/1	23	C	24	20/1	SIGN	1200	0
1	900	REC.	20/1	25	A	26	20/1	SIGN	1200	0
1	180	REC. BR RM	20/1	27	B	28	20/1	EF	84	3
6	800	REF.	20/1	29	C	30	20/2	PC	1200	2
6	800	GARBAGE DISPOSAL	20/1	31	A	32	–	GP REC.	720	1
1	540	GFCO REC.	20/1	33	B	34	20/1	TV	600	2
1	900	REC.	20/1	35	C	36	20/1	ICE MAKER	500	6
2	500	ATM MACHINE	20/1	37	A	38	20/1	FUTURE ATM	500	2
0	1200	SIGN	20/1	39	B	40	20/1	DED.	500	2
1	540	WP/GFCI REC.	20/1	41	C	42	20/1	REC.	1080	1

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE	F.T.L.	PHASE	CONN. KVA	LOAD FACTORS	DES. KVA	DES. AMP
3777	3960	3620	0	0	A		A	11.4	LIGHTS @ 125%	12.0	100
3971	2340	3300	84	0	B		B	9.7	EQUIP. @ 100%	11.2	93
3121	4320	4970	0	0	C		C	12.4	LG. MOTOR @125%	12.7	106
10869	10620	11890	84	0	TOTAL		TOTAL	33.5	RECEPS @ 10kW+50%	35.9	100

SUB-FEED PANELS:

PANEL NAME	S.F. KVA	LOAD FACTORS	DES. KVA	DES. AMP
PANEL B	44.1	SUB FEED @ 100%	44.1	123
		GRAND TOTAL	80.0	222

PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

PANEL: **B** NEW PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: M.L.O. ACCESSORIES: FEED–THROUGH LUGS

CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED

CODE	LOAD	CIRCUIT DESCRIPTION	BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE
3	5824	AHU-1	70/2	1	A	2	25/3	CU-1	2402	7
3	5824	–	–	3	B	4	–	–	491	0
3	5824	AHU-2	70/2	5	C	6	–	–	2402	7
3	5824	–	–	7	A	8	25/3	CU-2	2402	7
3	3811	AHU-3	50/2	9	B	10	–	–	2402	7
3	3911	–	–	11	C	12	–	–	2402	7
4	1500	EWH-1	20/2	13	A	14	20/3	CU-3	1729	7
4	1500	–	–	15	B	16	–	–	1729	7
1	360	REC. ATTIC	20/1	17	C	18	–	–	1729	7
2	500	DED.	20/1	19	A	20	15/2	CU-4	811	3
2	1200	PC	20/2	21	B	22	–	–	811	3
1	720	GP REC.	–	23	C	24	20/1	DISHWASHER	1200	6
0	1200	EXTERIOR SIGN	20/1	25	A	26	20/1	SOFFIT GFCI RECEPTACLES	504	1
0	114	GROUND LIGHTING	20/1	27	B	28	20/1	ICE MAKER	1000	6
0	224	GROUND LIGHTING	20/1	29	C	30		SPACE		
1	720	REC. DATA RM	20/1	31	A	32		SPACE		
1	360	REC. DATA RM	20/1	33	B	34		SPACE		
		SPACE		35	C	36		SPACE		
		SPACE		37	A	38		SPACE		
		SPACE		39	B	40		SPACE		
		SPACE		41	C	42		SPACE		

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE	F.T.L.	PHASE	CONN. KVA	LOAD FACTORS	DES. KVA	DES. AMP
1200	1224	500	12459	1500	A		A	23.4	LIGHTS @ 125%	17.2	143
114	360	2200	10446	1500	B		B	21.2	EQUIP. @ 100%	14.6	122
224	1080	1200	9735	0	C		C	18.8	LG. MOTOR @125%	12.3	102
1538	2664	3900	32640	3000	TOTAL		TOTAL	63.3	RECEPS @ 10kW+50%	44.1	122

ELECTRICAL LOAD ANALYSIS
PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

SERVICE VOLTAGE: 120/208V, 3 PHASE, 4 WIRE, WYE

SERVICE RATING: 400AMPS

GROSS AREA: 2,912 SQUARE FEET BANK

LOAD DESCRIPTION	CODE LOAD (kVA)	CONNECTED LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD (kVA)	REMARKS
LIGHTS (1.3 VA/FT2):	3.8	2.1	100%	3.8	NEC 220.42, 43, 44, 45
SIGN LIGHTS:		6.0	125%	7.5	NEC 220.14.F
SITE LIGHTS:		2.5	125%	3.1	NEC 220.42, 43, 44, 45
RECEPTACLES (1.0 VA/FT2):	2.9	13.3	10kVA+50%	11.6	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:		15.8	100%	15.8	NEC 220.14.A
WATER HEATERS:		3.0	100%	3.0	NEC 220.14.A
HVAC:		32.7	100%	32.7	NEC 220.14.C, 220.50
ELECTRIC HEAT: (IN HVAC)		0.0	100%	0.0	NEC 220.51
LARGEST MOTOR:		0.0	125%	0.0	NEC 430.22
		TOTAL DESIGN LOAD:		78	kVA
		@ 208V, 3 PHASE:		215	AMPS

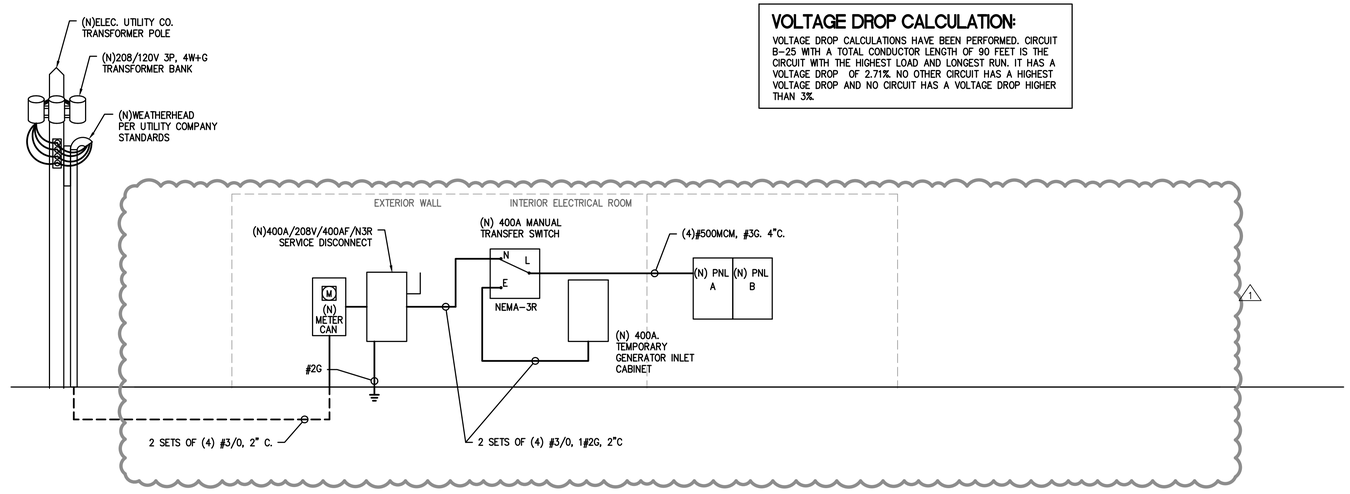
NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

1. CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THWN INSULATION IN EMT (4" C., OR LESS) OR RIGID CONDUIT (> 4" C.) PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
2. SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FCLT' INDICATES APPARENT LET–THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
3. ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
4. PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
5. REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
6. CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
7. SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
8. FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
9. ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT–GROUNDING CONDUCTOR PER NEC.
10. ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
11. A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. COH ELECTRICAL CODE 504.1.1.

VOLTAGE DROP CALCULATION:

VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED. CIRCUIT B–25 WITH A TOTAL CONDUCTOR LENGTH OF 90 FEET IS THE CIRCUIT WITH THE HIGHEST LOAD AND LONGEST RUN. IT HAS A VOLTAGE DROP OF 2.71%. NO OTHER CIRCUIT HAS A HIGHEST VOLTAGE DROP AND NO CIRCUIT HAS A VOLTAGE DROP HIGHER THAN 3%.



01 ELECTRICAL DISTRIBUTION DIAGRAM
SCALE: NO SCALE

EBE CONSULTING ENGINEERS Mechanical Electrical Plumbing
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National Bank & Trust
National Bank & Trust - Bastrop
Enter address here
E/BE Project Number : 26129.00

	DATE
ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	09/11/26
ISSUED FOR PERMIT	09/11/26
ISSUED FOR CONSTRUCTION	11/02/26

REVISIONS

MARK	DESCRIPTION	DATE
	70% REVIEW SET	07/29/26
	90% REVIEW SET	08/20/26
	ISSUE FOR PERMIT & BID	09/11/26
	ADDENDUM A	09/18/26
	ADDENDUM B	09/24/26
	ADDENDUM C	10/07/26
4	ADDENDUM F	10/30/26
	ISSUE FOR CONSTRUCTION	11/02/26
1	BULLETIN 1	11/16/26

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JOSE M. GUERRERO
154536
REGISTERED
PROFESSIONAL ENGINEER
STATE OF TEXAS
11/16/2026

DRAWING TITLE
ELECTRICAL SCHEDULES

SHEET NO.
E4.10