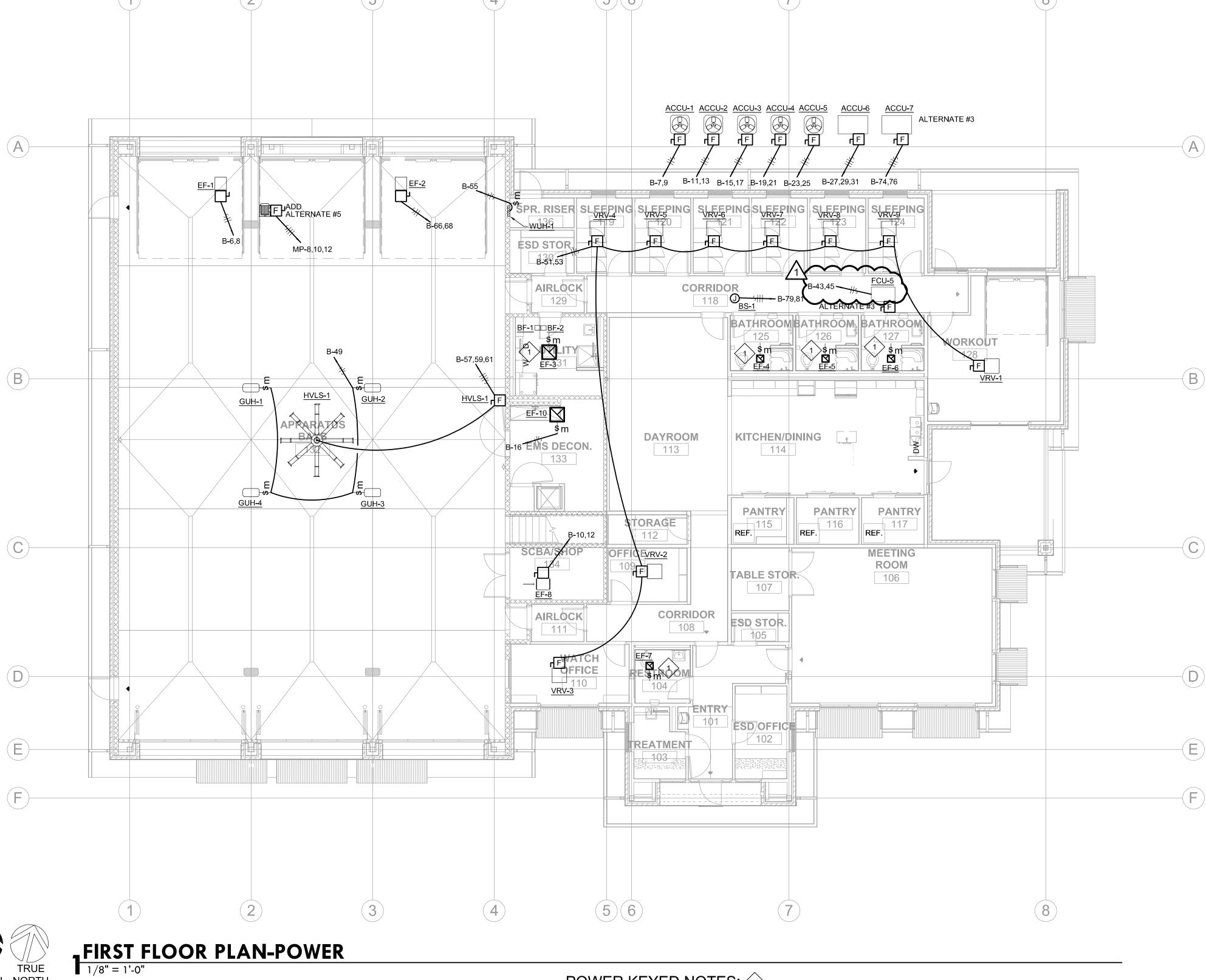


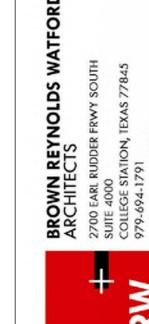
PLAN TRUE NORTH 2 SECOND FLOOR PLAN-POWER

1/8" = 1'-0"



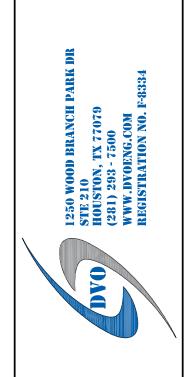


- POWER KEYED NOTES: (#) 1. CONTROL THIS FAN WITH LIGHT FIXTURES IN THIS ROOM.
- PROVIDE 120V CONNECTION FOR OSSF CONNECTION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.

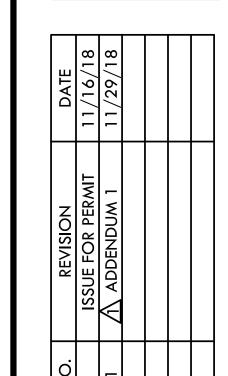




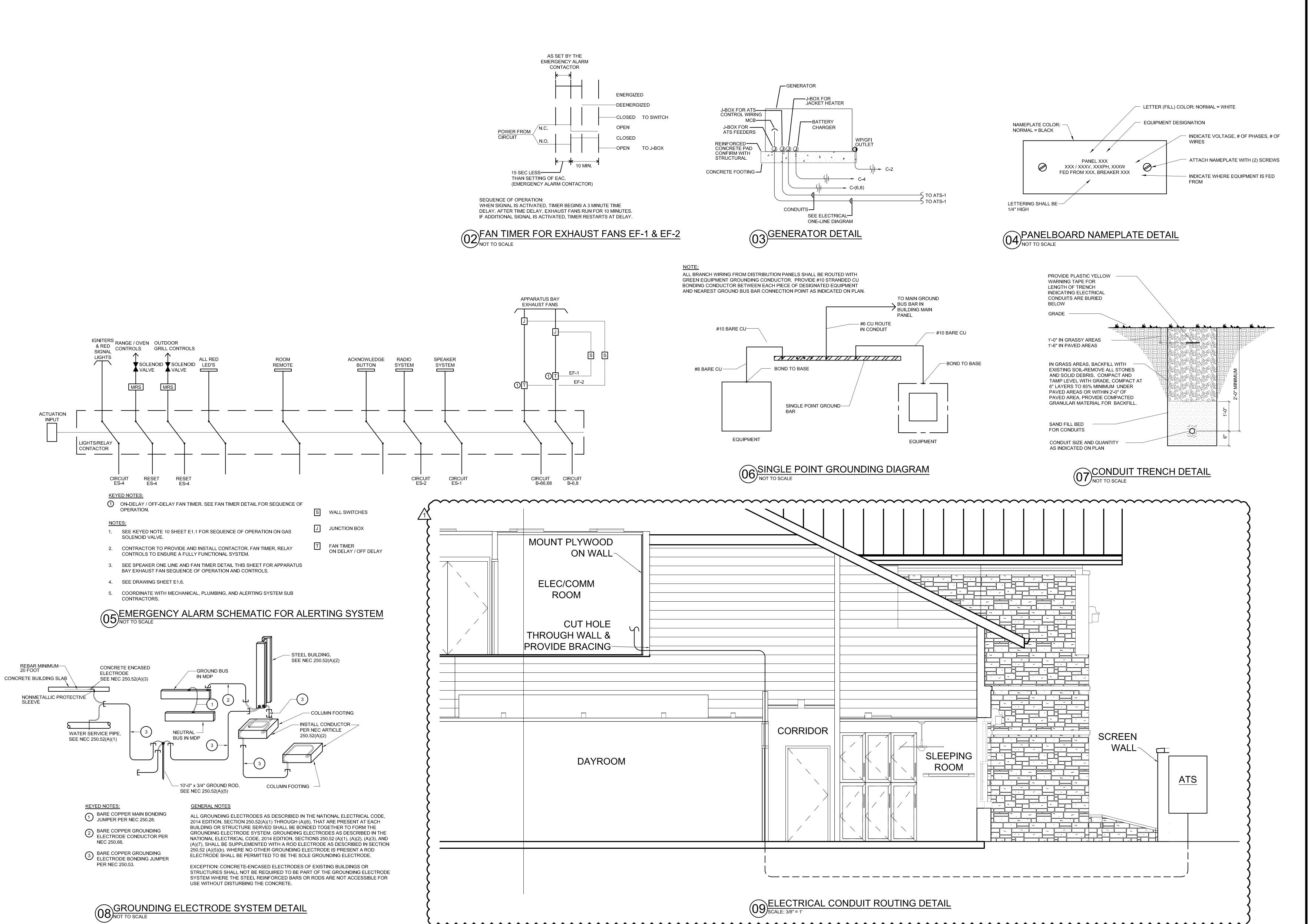


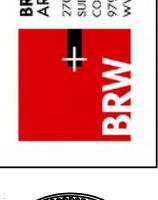


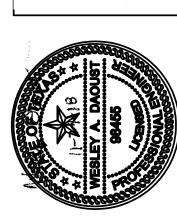


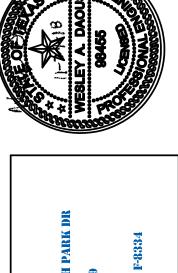






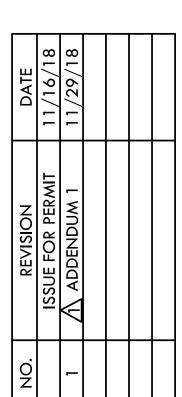


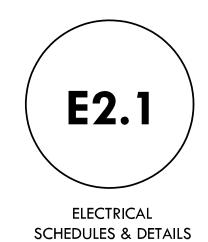


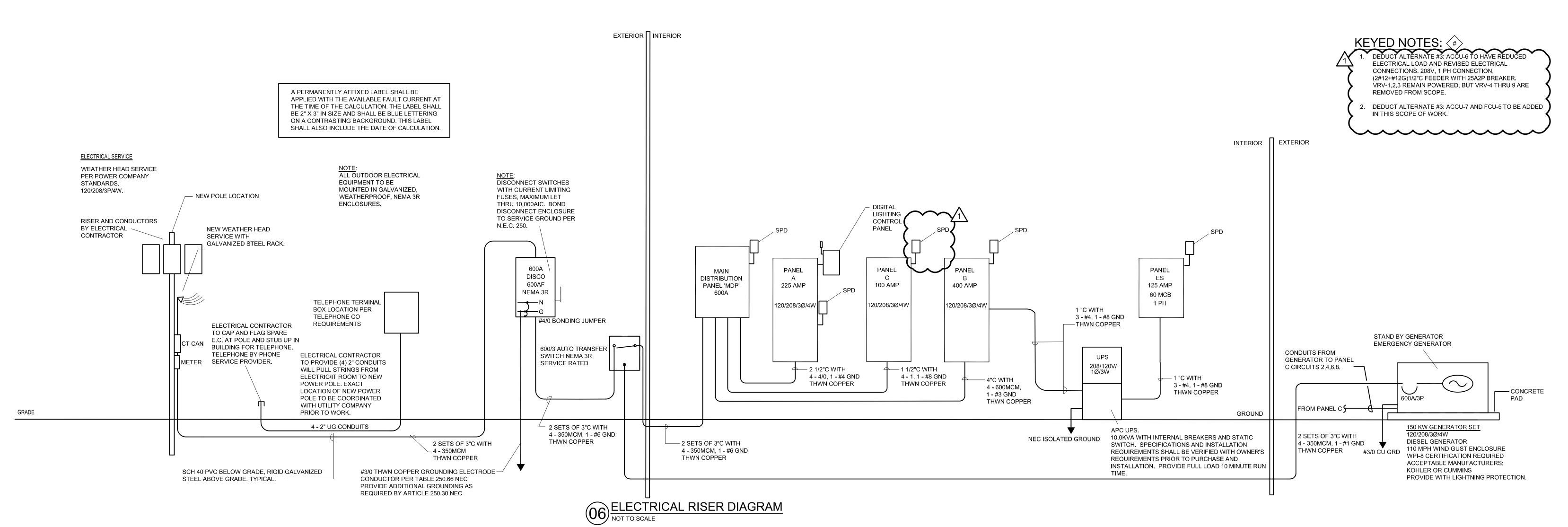












GEORGETOWN FIRE STATIC	6700 R.M. 233		
DAWSON VAN ORDEN ENGI	NEERING		GEORGETOWN, TX, 7862
SUBMITTAL DATE			
USE SQF	T SERVIC	E VOLTAGE	
FIRE STATION 1287	6 120/208	V/3P/4W	
ADDED LOAD	DESIGN INFO	LOAD	NOTES AND CODE REFERENCES
LICUTING			
LIGHTING INTERIOR LIGHTING	2.00 W/SF	32.2 KVA	220.12
CODE +25% CONT	32 KVA	32.2 NVM	220.12
ACTUAL +25% CONT	KVA		
EXTERIOR LIGHTING	""	3.0 KVA	(ACTUAL LOAD)
+25% CONTINUOUS		0.8 KVA	(10.10/220/2)
HVAC			220.60
ELECTRIC HEAT	кw	0.0 KVA	HEAT LOAD WITH .8 POWER FACTOR
COOLING	60 KW	75.0	(NONCOINCIDENT LOAD)
RECEPTACLES	18.00 KVA		1 W/SF (OFFICE BLDG ONLY)
< 10KVA AT 100%		10.0 KVA	
REMAINDER AT 50%		4.0 KVA	
MOTORS			430.24
PUMPS AND FANS	17.50 HP	20.7 KVA	(ACTUAL LOAD)
+25% LARGEST MOTOR		2.9 KVA	
MISCELLANEOUS			
WATER HEATING	5 KW	6.3 KVA	HEAT LOAD WITH .8 POWER FACTOR
EQUIPMENT		34.7 KVA	MISCELLANEOUS LOADS
IT EQUIPMENT		5.0 KVA	
TOTAL		194.4 KVA	
REQUIRED CAPACITY	540	AMP	
SERVICE CAPACITY	600		
SPARE CAPACITY	60	AMP	

COPPER GRO SOLID COPP BOLT ON BR	ER NEUTRAL				BUS	100	AMPS MLO						SHORT CROUT: MOUNTING: FEED-THRULUGS	18K A SURFA
VOLT AMPS	SERVING	WRE	BRKR	POLE	ССТ	А	В	С	ОСТ	POLE	BRKR	WRE SIZE	SERVING	VOLT
		#10			1	180			2	1	20	#10	GEN RECEP	- 1
	SURGE PROTECTOR	#10	30	3	3		300		4	1	20	#10	GEN BATT CHARGE	3
		#10			5			1500	6	2	20	#10	GEN JACKET HEATER	15
1200	MONUMENT SIGN	#12	20	1	7	2700			8	-	20	#10	GENJACKET HEATER	15
	Spare				9				10				Spare	
	Spare				11				12				Spare	
	Spare				13				14				Spare	
	Spare				15				16				Spare	
	Spare				17				18				Spare	
	Spare				19				20				Spare	
	Spare				21				22				Spare	
	Spare				23				24				Spare	
	Spare				25				26				Spare	
	Spare				27				28				Spare	
	Spare				29				30				Spare	
	Spare				31				32				Spare	
	Spare				33				34				Spare	
	Spare				35				36				Spare	
	Spare				37				38				Spare	
	Spare				39				40				Spare	
	Spare				41				42				Spare	
	+2	+25% 15% LAR	NECTEL CONTI RGEST	NUOUS	(VA)	2880 0	300 0 0	1500 0 0						
			EMANE)	LOAD	(VA)	2880	300	1500						
	FEED	DER DE	MANDL	OAD (A	MPS)	24	3	13						
					TOTAL	DATE DOM	ND LOAD (VA)	4680	_					
							LOAD (AMPS)	13						

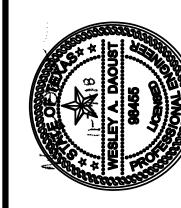
WRE SIZE #10 OR #10	BRKR	POLE	BUS MCB		AMPS AMPS						SHORT CIRCUIT: MOUNTING:	18K AIC SURFACE
SIZE #10	BRKR	POLE	MCB		-							
SIZE #10	BRKR	POLE		600	AMPS						memor municipal	
SIZE #10	BRKR	POLE	CCT								FEED-THRU LUGS	NO
	_		001	Α	В	С	CCT	POLE	BRKR	WIRE SIZE	SERVING	VOLT AMPS
R #10			1	29222			2			#600		29222
	30	3	3		38577		4	3	400	#600	PANEL B	38577
#10			5			31353	6			#600		31353
#4/0)		7	26119			8			#6	7.5 HP MOTOR	3036
#4/0	225	3	9		29073		10	3	50	#6	ADD ALTERNATE	3036
#4/0)		11			32470	12			#6	EXHAUST FAN	3036
			13	2880			14			#1		2880
			15		300		16	3	100	#1	PANEL C	300
			17			1500	18			#1		1500
			19				20					
			21				22					
			23				24					
+25% LA +25% LA NON-COING	% CONT ARGEST CIDENTA	NUOUS MOTOR LOAD	(VA) (VA) (VA)	58221 759	67950 759	65323 759						
	DEMANE	LOAD	(VA)	58980	68709	66082						
FEEDER DE	MAND L	OAD (A	MPS)_	491	573	551	_					
						193770						
	CO +25 +25% L/ NON-COING	+25% CONTI +25% LARGEST I NON-COINCIDENTAI FEED-THRI DEMAND	CONNECTED LOAD +25% CONTINUOUS +25% LARGEST MOTOR NON-COINCIDENTAL LOAD FEED-THRU LOAD DEMAND LOAD FEEDER DEMAND LOAD (A	CONNECTED LOAD (VA) +25% CONTINUOUS (VA) +25% LARGEST MOTOR (VA) NON-COINCIDENTAL LOAD (VA) FEED-THRU LOAD (VA) DEMAND LOAD (VA) FEEDER DEMAND LOAD (AMPS) TOTAL	13 2880 15 17 19 19 21 23 23 23 23 23 23 23	13 2880 300 15 300 17 19 19 21 23 23 23 23 23 25% CONTINUOUS (VA) +25% CONTINUOUS (VA) +25% LARGEST MOTOR (VA) 759 759 NON-COINCIDENTAL LOAD (VA) FEED-THRU LOAD (VA) DEMAND LOAD (VA) 58980 68709	13 2880 15 300	13 2880 14 15 300 16 17 1500 18 19 20 21 22 23 24 CONNECTED LOAD (VA) 58221 67950 65323 +25% CONTINUOUS (VA) +25% LARGEST MOTOR (VA) 759 759 759 NON-COINCIDENTAL LOAD (VA) FEED-THRU LOAD (VA) DEMAND LOAD (VA) 58980 68709 66082 FEEDER DEMAND LOAD (AMPS) 491 573 551 TOTAL PANEL DEMAND LOAD (VA) 193770	13 2880 14 3 15 300 16 3 17 1500 18 19 20 22 22 23 24	13 2880 14 3 100 15 300 16 3 100 17 1500 18 19 20 21 21 22 24 CONNECTED LOAD (VA) 58221 67950 65323 +25% CONTINUOUS (VA) +25% LARGEST MOTOR (VA) 759 759 759 NON-COINCIDENTAL LOAD (VA) FEED-THRU LOAD (VA) DEMAND LOAD (VA) 58980 68709 66082 FEEDER DEMAND LOAD (AMPS) 491 573 551 TOTAL PANEL DEMAND LOAD (VA) 193770	13 2880 14 #1 #1	13 2880 14 3 100 #1 PANEL C 15 300 16 3 100 #1 PANEL C 17 1500 18 #1 19 20 21 21 22 24 CONNECTED LOAD (VA) 58221 67950 65323 +25% CONTINUOUS (VA) +25% LARGEST MOTOR (VA) 759 759 759 NON-COINCIDENTAL LOAD (VA) FEED-THRU LOAD (VA) 58980 68709 66082 FEEDER DEMAND LOAD (AMPS) 491 573 551 TOTAL PANEL DEMAND LOAD (VA) 193770

SOLID ALUN	GROUND BUS VINUM NEUTRAL				BUS	60 Af						SHORT CIRCUIT: MOUNTING:	10K AK SURFACE
VOLT AMPS	SERVING	WRE	BRKR	POLE	MC8 CCT	60 AI	MPS B	ССТ	POLE	BRKR	WIRE	SERVING	VOLT AMPS
500	SPEAKER SYSTEM	#12	20	1	1	1000		2	1	20	#12	RADIO SYSTEM	500
180	ISO GND RECEP	#12	20	1	3	1000	680	4	1	20	#12	IGNITERS / MRS	500
720	RECEP COM ROOM	#12	20	1	5	1220	000	6	1	20	#12	FIRE ALARM PNL 110	50
720	RECEP TELE BRD	#12	20	1	7	1220	1720	8	1	20	#12	KR LIGHT FIXTURE	100
2000	COMRACK	#10			9	2000	1120	10	1	20	HIL	SPARE	100
2000	COMITATION	#10	30	2	11	2000	2000	12	1	20		SPARE	
180	RECEP COM RACK	#12	20	1	13	180	2000	14	1	20		SPARE	
180	UPS 110	#12	20	1	15	100	180	16	1	20		SPARE	
100	SPARE	7712	20	1	17		100	18	1	20		SPARE	
	SPARE		20	1	19			20			#10	SURGE	
	SPARE		20	1	21			22	3	30	#10	PROTECTOR	
	SPARE		20	1	23			24	"		#10	THOTEOTOR	
	NON	5% LAI LOOING FEE	DENTAL D-THRL DEWANE	MOTOR LOAD JLOAD DLOAD	R(VA) P(VA) P(VA) P(VA)	4400 37	4580 38						
						37 38 EWAND LOAD (VA) 8980 AND LOAD (AMPS) 43							

ANEL A OPPER GROUND BUS OLID COPPER NEUTRAL OLT ON BREAKERS				BUS	VC		120/208V/3P/ AMPS MLO	¥VV	- 9		7 7		ENCLOSURE: SHORT CIRCUIT: MOUNTING: FEED-THRU LUGS	NEMA 1 18K AIC SURFACE NO			ROUND BUS PER NEUTRAL REAKERS				BUS		120/208V/3P/4W AMPS MLO					S M	NOLOSURE: HORT CIRCUIT: MOUNTING: EED-THRU LUGS	NEMA 18K AI SURFAC N
VOLT SERVING AMPS	SIZE	BRKR	POLE	CCT		A	В	С	ОСТ	POLE	BRKR	WRE SIZE	SERVING	VOLT AMPS		VOLT AMPS	SERVING	WRE SIZE	BRKR F	OLE	CCT	А	В	С	ост	POLE	BRKR	WRE SIZE	SERVING	VOLT AMPS
1440 RECEP SLEEP 119,12 1440 RECEP SLEEP 121,12		20	1	3	14	440	1440		2	3	30	#10	SURGE PROTECTOR				SURGE PROTECTOR	#10	30	3	1 3	4400	4580		2	2	60	#4	UPS	440 458
1440 RECEP SLEEP 123,12		20	1	5				1440	6			#10						#10			5			794	6	2	15	#12	EF-1	79
540 RECEP 130, 126 360 RECEP COOR 118	#12	20	1	9	12	260	900		10	1	20	#12	REFRIGERATOR 115 REFRIGERATOR 116	720 540		1736 1736	ACCU-1	#10	25	2	9	2530	3116		10			#12		138
360 RECEP RR	#12	20	1	11				1030	12		20		REFRIGERATOR 117	720		1736	ACCU-2	#10	25	2	11		3110	3116	12	2	25	#10	EF-8	138
360 RECEP RR 360 RECEP RR	#12	20	1	13	5	540	1560		14		20		DISH WASHER	180		1736	A000-2	#10		-	13	1785	0400		14	1	-	#12	EF-9 EF-10	4
2500 DRYER 112	#10	30	,	17			1300	2630	18	1	20	#12	KITCHEN RECEPT	180		2464 2464	ACCU-3	#8	40	2	15		3160	2752	16	1		#12	EF-11	69
2500	#10	-00		19	26	680			20	1	20	#12	KITCHEN RECEPT	180	 / 1\	1955	ACCL-4	#10	30	2	19	3843			20	1	_	#12	LIGHTS	188
1200 WASHER 112 1000 EQUPMENT	#12	20	1	21			2800	1180	22	1	20	#12	ANSUL PANEL KITCHEN RECEPT	1600		1955 2350		#10			21		2437	3518	22	1	20	#12	LIGHTS	116
360 RECEPTACLE	#12	20	1	25	9	960			26	1	20	#12	HOOD	600	$\sqrt{\frac{2}{\sqrt{2}}}$	2350		#10	25	2	25	3323		5510	26	1	_	#12	LIGHTS	97
720 RECEP 113	#12	20	1	27			1920	700	28	1	20	#12	STOVE SUI INT TOID	1200	>	3624		#8	25	2	27		5128		28	1		#12	LIGHTS	150
720 RECEP 128 900 RECEP 128	#12	20	1	29 31	10	080		720	30	1	20	#12	SHUNT TRIP KITCHEN RECEPT	180	$ \bigvee_{1}$	3624 3624	4	#8	35	3	29	5038		4944	30	1	_	#12	LIGHTS	132
4000	#10			33			5500		34		20	#12	MICROWAVE	1500		3200	WELDER/COMP 128	#6	40	2	33		5600		34	1	30	#8	BAY LIGHTS	240
4000 UNIMAC	#10	30	3	35	4	200		5500	36	1	20	-	MICROWAVE KITCHEN RECEPT	1500		3200	VILLUCIVOOM 120	#6		-	35	****		5600	36	1	30	#8	BAY LIGHTS	240
4000	#10			37	4.	360	4180		38 40	1	20	#12	REC ISLAND	360 ¹		6000	EWH-1	#4	70	3	37	6980	6351		38 40	1		#10	BAY LIGHTS EXT LIGHTS	98
4000 GEAR DRYER	#8	35	3	41				4180	42	1	20	#12	REC ISLAND	180	1 <i>/</i>	2008	~~~	V	~	~	41			6157	42	1	20	#12	EXT LIGHTS	15
4000 500 NORTH OH DOOR 13	#8	20	1	43	4	180	680		44	_	20	#12	REC ISLAND REC ISLAND	180	←	2416	1 100-5	#10	20	2	43	2816	2040		44	1	20		EXT LIGHTS	40
500 NORTH OH DOOR 13		20	1	47			000	1000	48	1	20	#12	GEN ALARM PNL 110	500	'	2416		#10	W	$ \wedge $	45		2916	1169	48	1	_	#12	EXT LIGHTS LIGHTS 2ND FLOOR	50
500 NORTH OH DOOR 13		20	1	49	19	940			50	1	20	#12	RECEPT 109,112	1440		400		W12	15	1	49	728		Λ	50	~	20	#12	LICHTS SND ELOOR	
500 SOUTH OH DOOR 13 500 SOUTH OH DOOR 13		20	1	51			1220	1580	52 54	1	20	#10	RECEPT 134 RECEPT 110	720 1080	((1)	333	V POV - 1-9	#10	15	2	51		396	200	52	1	-	#12	AC-1/AC-2	6
500 SOUTH OH DOOR 13		20	1	55	12	220		1000	56	1	_	#10	RECEPT 110	720	$ \bigvee$	333 1500		#10 #12	20	1	53	1500		396	54 58		20	#12	~~~~	~~°
1000 N CORD REEL 132		20	1	57			1180		58	1	20		GFCI RRESTROOM	180	$\int 1$	1200		#12			57		1596		58	1	20		LIGHTS	39
1000 N CORD REEL 132 1000 S CORD REEL 132		20	1	59 61	1	180		2030	60	1	20	#10	RECEPT 102, GFI EXT RECEPT 105	1080	1	1200	HVLS-1	#12	15	3	59	2136		2136	60	3		#12	DUMB WAITER	93
1000 S CORD REEL 132		20	1	63		100	2080		64	-1	20	#10	RECEPT 106	1080	4	3016		#10	20	\sim	63	2130	3952		64	Ů		#12	DOME TRAILET	93
1260 RECEPT 132	#10	20	1	65				2830	66	_	20	#10	RECEPT 106, GFI EXT	1620	(3016	FCU-1	#10	30	2	65			3810	66	2	15	#12	EF-2	79
1620 RECEPT 132 800 FOUNTAIN	#10	20	1	67	19	920	980		68 70	1	20	#10	PROJECTOR GFG EXT	300 180	ዘ	3016 3016	FCU-2	#10	30	2	67	3810	4516		70			#12		150
800 FOUNTAIN	#12	20	1	71				1800	72	1	20	#12	BACK LIT SIGN	1000	1 >	3224	FCU-3	#8	30	2	71		4010	4724	72	2	20	#8	POLE LIGHTS	150
360 GFCI RECEPT 1080 RECEPT 204	#12		1		5	560	1440		_	1	_	#12	IRRIGATION ALERTING SYSTEM	200	∤ >	3224		#8	50	-	73	5353			74	1	15	#12	ACCU-7	212
1080 RECEPT 204 1440 RECEPT 204	#12			75			1440	2640	78	1	_	#12	DISPOSAL	360 1200	│ 	3224 3224	t PLAN-4	#8	30	2	75		5353	3724	76 78	1	20	#12	OSSF	212
1080 RECEPTACLES	#12	20		79	18	800			80	1		#12	RECEPTACLES	720	1	300	BS-1	#12	15	2	79	800		0.2.	80	1	20		OSSF	50
1000 EQUIPMENT 1000 EQUIPMENT	#12	20		81			1900	1500	82	1		#12	RECEPTACLES OH DOOR 128	900 500	-	300	50-1	#12			81		1704	4404	82	1	20		AIR COMPRESSOR	140
1000 Edol MET	#12		Ė	00				1000	04	•	20	HIO	01120011120	500	1				20	1	83			1404	84	1	20	#12		140
				(VA)	25	5120	27780	30260										CONN	ECTED I	.OAD	(VA)	45042	50805	44243						
	+25% +25% LAR	CONTI																+25% (25% LAR	CONTIN			699	813 800	639						
	N-COINCIE				-2	037	-1743	-826										+COINCID				-16519	-13841	-14330						
				(VA)					_										-THRU I		_				_					
FE	D EDER DEV			O(VA)		3083 192	26037 217	29434 245									EEE	DER DEW	MAND			29222 244	38577 321	31353 261						
			,	-,					_								74	DENDEN	NIND LO	AD (A		244	321	201						
							DLOAD(VA LOAD(AMPS																ND LOAD (VA)	99151						
OTES:				r.	2000	DEWAND	LOAD (AMPS) 218							1	NOTES:					FEE	DER DEWANI	LOAD (AMPS)	275						
1. BRANCH CIRCUIT VO						T FARTHE	ST OUTLET.	TOTAL VOLT	AGE DR	P INCL	UDING						BRANCH CIRCUIT VOL	TAGE DR	OP NOT	TOE	XCEED :	3% AT FARTI	EST OUTLET. TO	TAL VOLTAGE	E DROF	PINCLU	DING			
2. FIELD VERIFY EQUIP			TOE	XCEED	5%.												FEEDERS AND BRANC			TO EX	CEED 5	96.								
3. ALL CONDUCTORS S			٦.														FIELD VERIFY EQUIPM ALL CONDUCTORS SI													
4. BREAKERS LABELED	WITH AN	ASTER	ISK A	RE TO E	BEAR	CFAULTF	RATED.									1	BREAKERS LABELED				RE TO BE	E ARC FAULT	RATED.							









,/2018 KM JF 079.00

DATE DRAWN BY CHECKED BY

SEORGETOWN FIRE STATION No. (5700 R.M. 2338



DATE	11/16/18	11/29/18			
REVISION	ISSUE FOR PERMIT	V ADDENDUM 1			
0.		1			

