Scope of work Regarding Installation of the 230KW Generator, (2) 225a Automatic Transfer Switches, (1) 600a Automatic Transfer Switch and (1) Emergency Distribution Panel. This proposal is to include only work designated as "Phase 2" as "Phase 1" is to be completed prior to the completion of the Mason County Courthouse Renovation and performed by others.

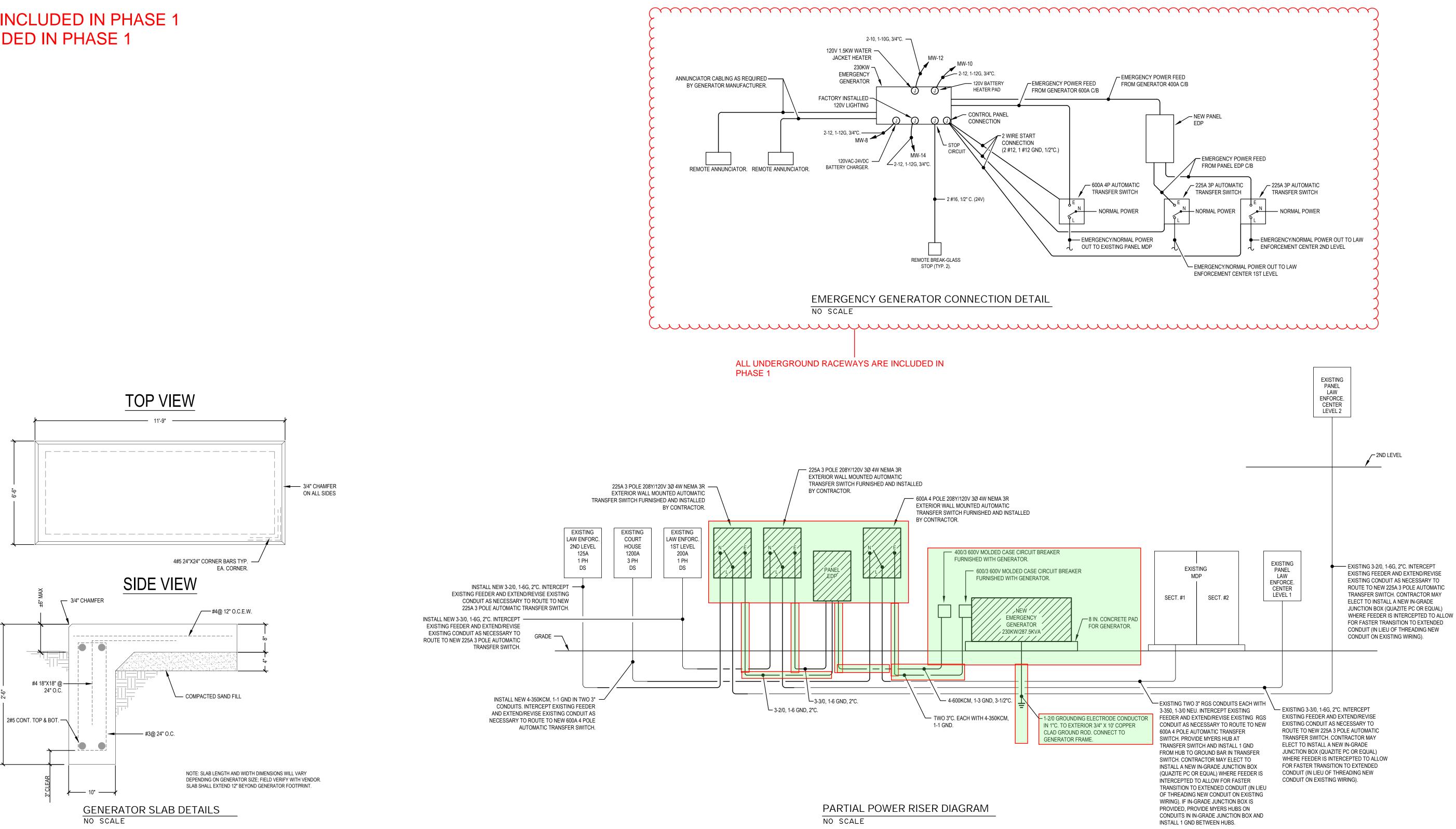
PHASE 2 SCOPE OF WORK

- 1. Provide and install a 230KW 120/208v 3phase Standby Generator.
- 2. Provide and install (2) 225 amp 120/208v 3phase N3R Automatic Transfer Switches
- 3. Provide and install a 600 amp 120/208v 3phase N3R Automatic Transfer Switch.
- 4. Provide and install conductors according to the one line diagram from the EDP to the Generator.
- 5. Provide and install conductors according to the one line diagram from the 600amp ATS to the Generator.
- 6. Provide and install all required wiring from the (3) Transfer Switches to the Generator
- 7. Provide and install (2) Glass Break E Stops and (2) Remote Annunciators per drawings
- 8. Remove Existing Terminal J Boxes installed temporarily and install new ATS's in same locations. 9. Utilize existing load and normal utility feeders in PHASE 1 temporary j boxes.

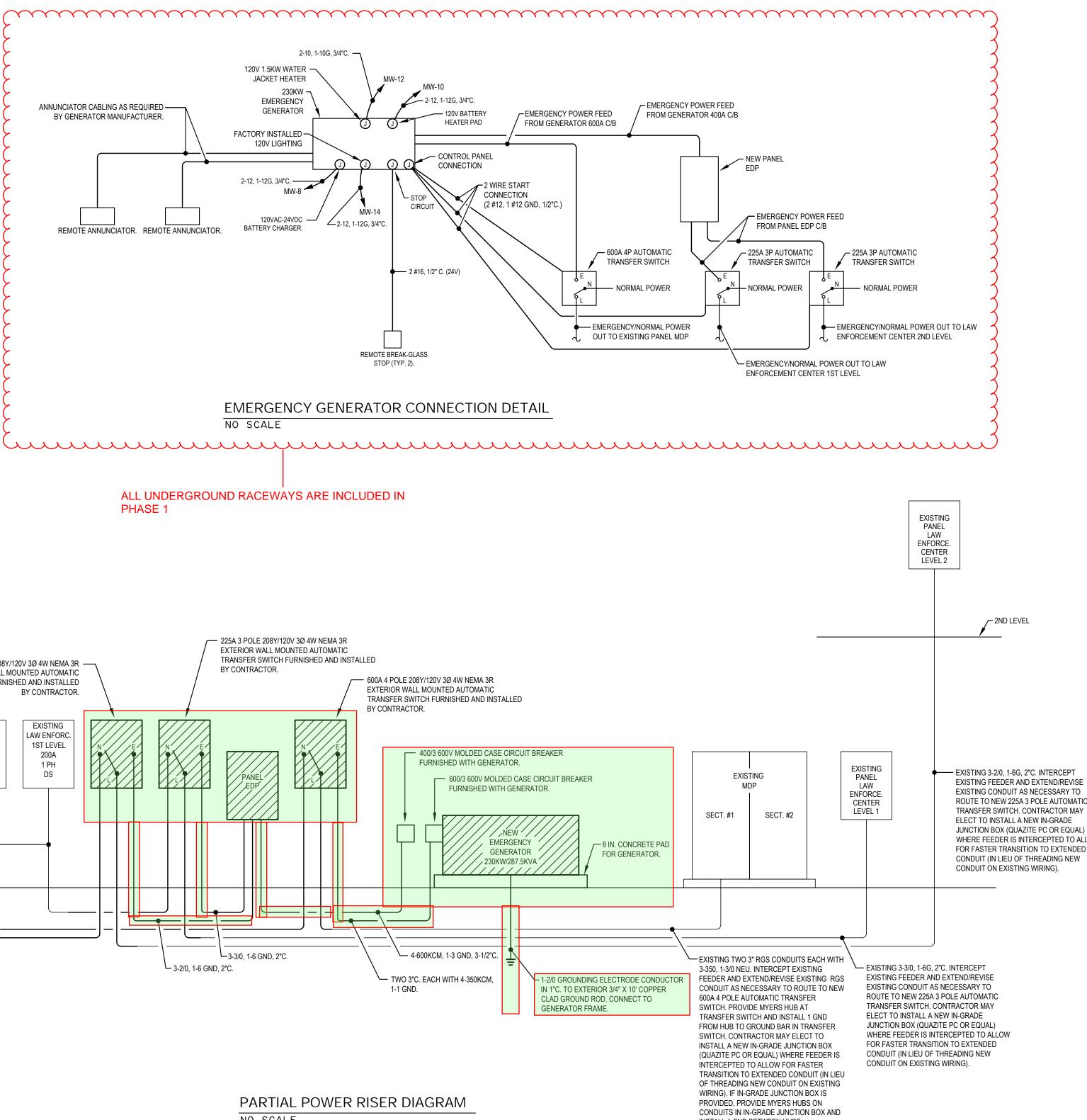
NOTES:

- 1. ALL NORMAL/UTILITY POWER CONDUCTORS AND LOAD CONDUCTORS ARE PART OF PHASE 1 ALL EMERGENCY CONDUCTORS ARE PART OF PHASE 2.
- 2. ALL GREEN SHADED GEAR, CONDUIT AND CONDUCTORS TO BE PROVIDED AND INSTALLED IN PHASE 2 3. THE EQUIPMENT RACK, GENERATOR PAD, E STOP AND REMOTE ANNUNCIATOR RACEWAYS ARE PHASE 1 SCOPES OF WORK
- 4. INTERCEPTING OF EXISTING FEEDERS ARE INCLUDED IN PHASE 1
- 5. TEMPORARY TERMINAL J BOXES ARE INCLUDED IN PHASE 1

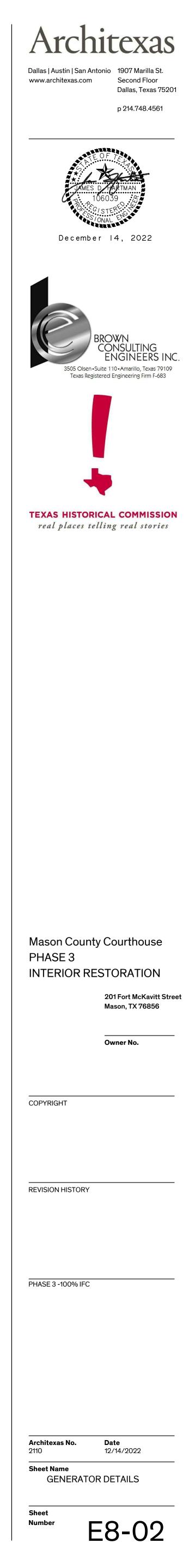
PHASE 2 SCOPE OF WORK

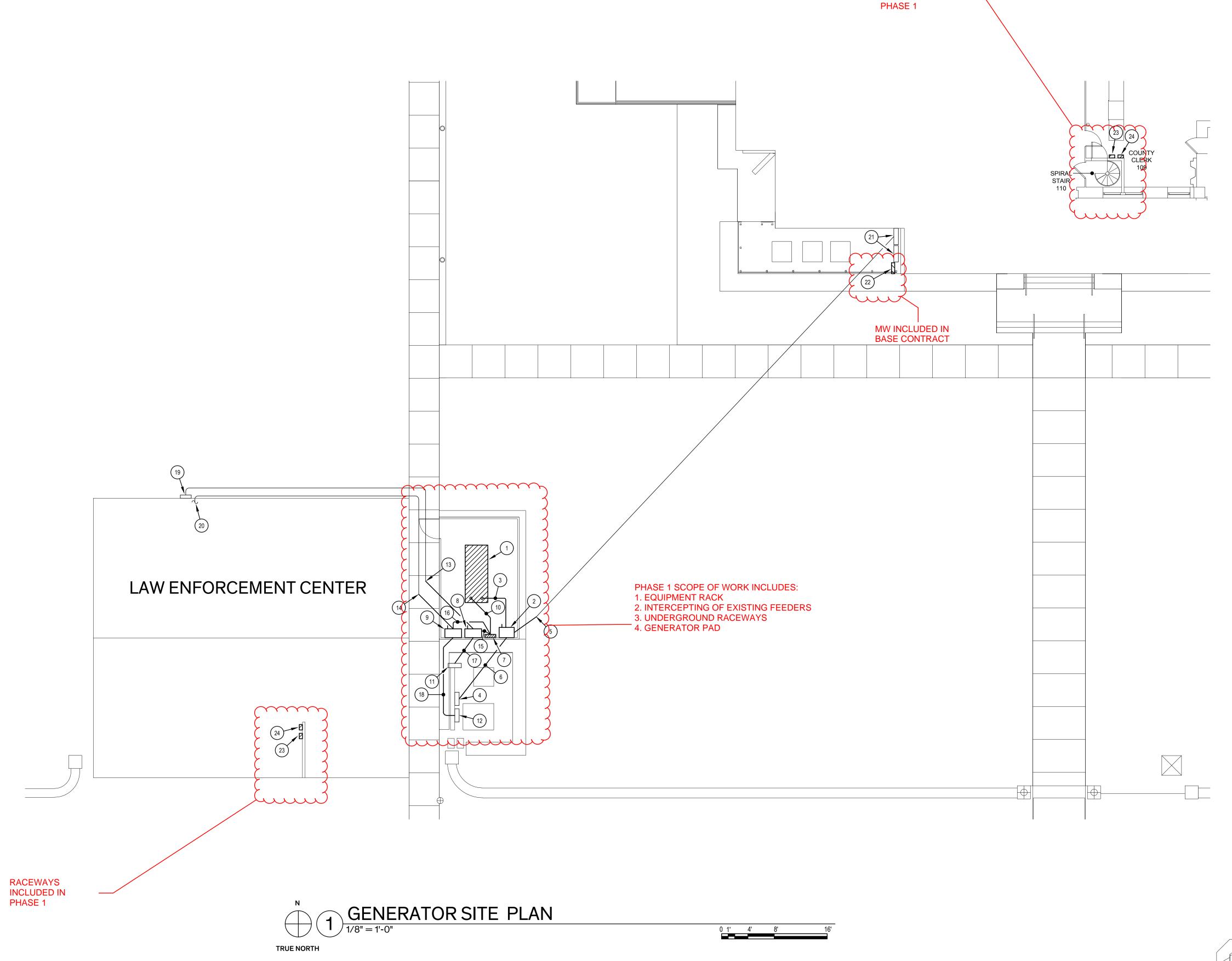


			PANEL	EDP SCI	HEDULE						"EXI	STING" P		WSCHE	DULE		
	Typical Series:	D NQ		AIC: 10,000A RMS Symmetrical				{──	Typical Series:	Square D NQ AIC:				10,000A	A RMS Symmetrical		
	Voltage Rating: 208Y/120V 3 Phase 4 Wire				Notes: Copper bus, copper ground bar					Voltage Rating:		20V 3 Phas	e 4 Wire		Copper bus, copper ground bar		
	Enclosure and mounting	Door-in-door construction All single c/bs rated for SWD					Enclosure and mounting	200A				Door-in-door construction					
	Main lug ampacity: 400A					$ \langle$	Main lug ampacity:					-	All single c/bs rated for SWD				
	Location	Genera	tor Yard		Su	ıb fed	c/b denoted by 'S'		{	Location	West M	echanical \	′ard		Existing	g c/b denoted by 'E'	
		C/B	PHASE A	PHASE B	PHASE C	C/B			15		C/B	PHASE A	PHASE B	PHASE C	C/B		
0	LOAD	Trip	LOAD	LOAD	LOAD 1	Гrip	LOAD	NO	NO	LOAD	Trip	LOAD	LOAD	LOAD	Trip	LOAD	
1	Space Only	-/1	0						1	HP-1 (Module 1)	50/3	5164					
			0			-/1	Space Only	2				4575			45/3	HP-1 (Module 2)	
3	Space Only	-/1		0					3	"	"		5164				
				0		-/1	Space Only	4					4575		"	"	
5	Space Only	-/1			0	1.1			5	"				5164			
7	Oness Onl				0	-/1	Space Only	6		Exterior December - I-	00/4			4575	<u>'</u>		
′	Space Only	-/1	0			14	Orean Orth		17	Exterior Receptacle	20/1	180 250			00/45	Conorator Dottor	
\rightarrow	Change Only	14	0			-/1	Space Only	8	1	Extorior Lighting	20/1	250	1156			Generator Battery	
1	Space Only	-/1		0		14	Change Only	10	9	Exterior Lighting	20/1		250			Charger Generator Battery Pad	
1	Shaaa Only			0	0	-/1	Space Only	10	1 11	Spare	20/1		250	C		Generator Battery Pad	
<u> </u>	Space Only	-/ 1			-	-/1	Space Only	12		Spare	20/1					Generator Block Heate	
2	Space Only		0			-/ 1		12	13	Spare	20/1	0		1500		Generator Block fleat	
		-/ 1	0			-/1	Space Only	14			20/1	250			20/1F	Generator Lights/Rece	
5	Space Only		0	0		-/ 1		14	15	Spare	20/1	230	0				
-		-/ 1		0		-/1	Space Only	16	1		20/1		0		20/1	Spare	
7	Space Only				0	-/ 1			17	Spare	20/1		0	C			
+		71			-	-/1	Space Only	18							20/1	Spare	
9	Space Only	-/1	0						19	Spare	20/1	0		-			
-			0			-/1	Space Only	20				0			20/1	Spare	
1	Space Only	-/1		0					21	Spare	20/1		0				
				0		-/1	Space Only	22		•			0		20/1	Spare	
3	Space Only	-/1			0				23	Spare	20/1			C			
					0	-/1	Space Only	24						C	20/1	Spare	
5	Space Only	-/1	0						25	Spare	20/1	0					
			0			-/1	Space Only	26	$ \langle$			0			20/1	Spare	
7	Space Only	-/1		0					27	Spare	20/1		0				
				0		-/1	Space Only	28		-			0			Spare	
9	Space Only	-/1			0				29	Spare	20/1			C			
					0	-/1	Space Only	30						C	0 20/1	Spare	
	Existing Law Enforcement	200/2S		0					∤──	Panel VA load/phase:		10419	11145				
	Center Level 1 Panel			0	12	25/2S	Existing Law Enforcement			Amps/phase:		86.8	92.9	93.7	,		
	"				0		Center Level 2 Panel										
					0		"			Total VA Load:		32803					
										Average amps/phase:		91.1					
	Panel VA load/phase:	_	0	0	0				1)								
	Amps/phase:		0.0	0.0	0.0				1)								
	Total VA Load:		0						15		· · · · · ·						
	Average amps/phase:		0.0						17		NOTE: C	HANGES TO P	ANELS INSTAL	LLED AS PAR	T OF INTER	IOR	



PHASE 2 SCOPE PROVIDE AND INSTALL PANEL EDP





RACEWAYS INCLUDED IN

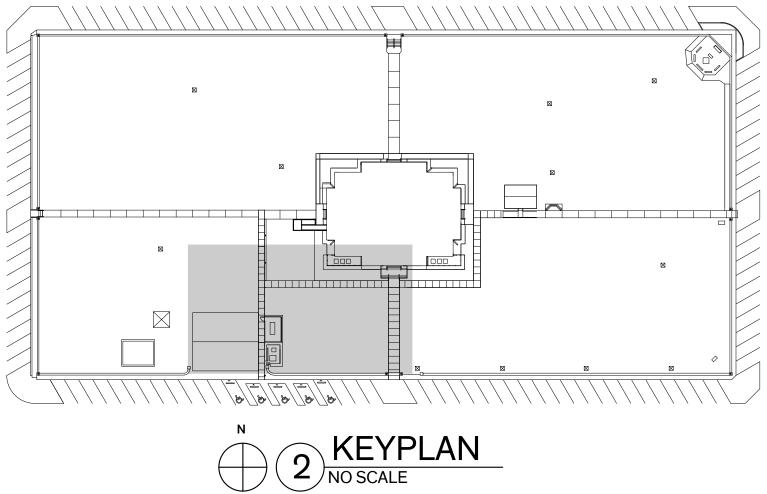
1	NEW 230KW/287.5KVA DIESEL EMERGENCY GENERATOR ON 8 IN. CONCRETE PAD. GENERATOR SHALL BE PROVIDED WITH ONE 600/3 C/B FOR COURTHOUSE AND ONE 400/3 C/B FOR PANEL EDP FOR LAW ENFORCEMENT CENTER.
2	NEW 600A 4 POLE AUTOMATIC TRANSFER SWITCH IN A NEMA 3R ENCLOSURE FOR COURTHOUSE INSTALLED ON NEW UNISTRUT RACK (PROVIDED BY CONTRACTOR). REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
3	INSTALL NEW 600A FEEDER FROM 600/3 C/B IN GENERATOR TO EMERGENCY POWER SIDE OF COURTHOUSE AUTOMATIC TRANSFER SWITCH. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
4	EXISTING 1200/3 ENCLOSED C/B FOR COURTHOUSE ON EXISTING UNISTRUT RACK.
5	INTERCEPT EXISTING 600A FEEDER FROM EXISTING 1200/3 ENCLOSED C/B AND ROUTE TO LOAD SIDE OF COURTHOUSE AUTOMATIC TRANSFER SWITCH. REVISE CONDUIT AS NECESSARY. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
6	INTERCEPT EXISTING 600A FEEDER FROM EXISTING 1200/3 ENCLOSED CIRCUIT BREAKER AND EXTEND EXISTING CONDUIT TO NEW AUTOMATIC TRANSFER SWITCH. INSTALL NEW WIRING FROM EXISTING 1200/3 ENCLOSED CIRCUIT BREAKER TO AUTOMATIC TRANSFER SWITCH. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
7	INSTALL NEW EMERGENCY DISTRIBUTION PANEL EDP ON NEW UNISTRUT RACK (PROVIDED BY CONTRACTOR). REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
8	NEW 225A 3 POLE AUTOMATIC TRANSFER SWITCH IN A NEMA 3R ENCLOSURE FOR LAW ENFORCEMENT CENTER 1ST LEVEL INSTALLED ON NEW UNISTRUT RACK (PROVIDED BY CONTRACTOR). REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
9	NEW 225A 3 POLE AUTOMATIC TRANSFER SWITCH IN A NEMA 3R ENCLOSURE FOR LAW ENFORCEMENT CENTER 2ND LEVEL INSTALLED ON NEW UNISTRUT RACK (PROVIDED BY CONTRACTOR). REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
10	INSTALL NEW 400A UNDERGROUND FEEDER FROM 400/3 C/B IN GENERATOR TO NEW EMERGENCY DISTRIBUTION PANEL EDP.
(11)	EXISTING 200/2 ENCLOSED C/B FOR LAW ENFORCEMENT CENTER 1ST LEVEL ON EXISTING UNISTRUT RACK.
(12)	EXISTING 125/2 ENCLOSED C/B FOR LAW ENFORCEMENT CENTER 2ND LEVEL ON EXISTING UNISTRUT RACK.
13	INTERCEPT EXISTING 200A FEEDER FROM EXISTING 200/2 ENCLOSED C/B AND ROUTE TO LOAD SIDE OF LAW ENFORCEMENT CENTER 1ST LEVEL AUTOMATIC TRANSFER SWITCH. REVISE CONDUIT AS NECESSARY. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
14	INTERCEPT EXISTING 125A FEEDER FROM EXISTING 125/2 ENCLOSED C/B AND ROUTE TO LOAD SIDE OF LAW ENFORCEMENT CENTER 2ND LEVEL AUTOMATIC TRANSFER SWITCH. REVISE CONDUIT AS NECESSARY. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
(15)	INSTALL 3-3/0, 1-6 GND, 2"C.
(16)	INSTALL 3-2/0, 1-6 GND, 2"C.
17	INTERCEPT EXISTING LAW ENFORCEMENT CENTER 1ST LEVEL FEEDER AND EXTEND EXISTING CONDUIT TO NEW AUTOMATIC TRANSFER SWITCH. INSTALL NEW WIRING FROM EXISTING ENCLOSED CIRCUIT BREAKER TO AUTOMATIC TRANSFER SWITCH. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
18	INTERCEPT EXISTING LAW ENFORCEMENT CENTER 2ND LEVEL FEEDER AND EXTEND EXISTING CONDUIT TO NEW AUTOMATIC TRANSFER SWITCH. INSTALL NEW WIRING FROM EXISTING ENCLOSED CIRCUIT BREAKER TO AUTOMATIC TRANSFER SWITCH. REFER TO PARTIAL POWER RISER DIAGRAM FOR DETAILS.
(19)	EXISTING 200/2 PANEL MOUNTED TO EXTERIOR WALL FOR LAW ENFORCEMENT CENTER 1ST LEVEL.
20	EXISTING CONDUIT FEEDING 2ND LEVEL PANEL FOR LAW ENFORCEMENT CENTER 2ND LEVEL.
21	EXISTING PANEL MDP (2-SECTION).
\bigcirc	

PROVIDE AND INSTALL A REMOTE ANNUNCIATOR AND REMOTE BREAK-GLASS STOP IN COURT HOUSE BUILDING AND LAW ENFORCEMENT CENTER IN LOCATION(S) SHOWN. VERIFY EXACT LOCATION WITH THE OWNER. PROVIDE AND INSTALL ALL CABLING AND CONDUIT AS NECESSARY.

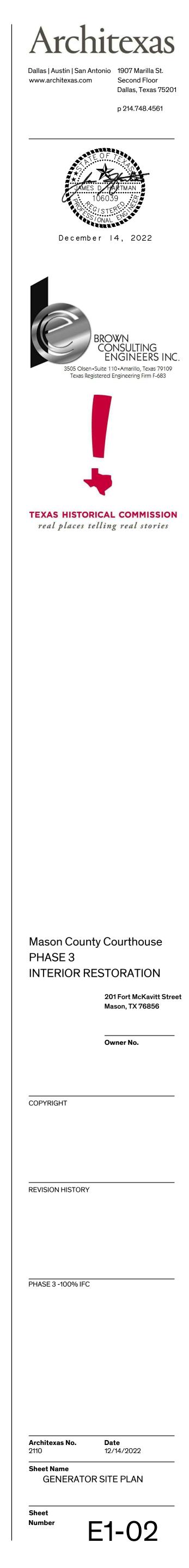
GENERAL NOTES:

KEYED NOTES:

- (22) NEW PANEL MW.
- 23 INSTALL GENERATOR REMOTE ANNUNCIATOR. FLUSH MOUNT ON WALL.
- (24) INSTALL EMERGENCY GLASS-BREAK STOP STATION FOR GENERATOR.



TRUE NORTH



PROTECT EXIST'G CONCRETE BORDER AT PORCH

NOTE: SCOPE OF WORK AT EAST PORCH SIMILAR W/OUT RAMP

A1.01

3' - 0"

1 A4.01

BORDER, TYP. — PROTECT EXIST'G CONCRETE BORDER AT PORCH GRAVEL BORDER, REF: LANDSCAPE PROTECT EXIST'G PORCH EXTENSION CONCRETE PAVING, RE: CIVIL CONCRETE STAIR, RE: STRUCT. CONCRETE TOPPING SLAB OVER EXISTING CONCRETE PORCH -METAL FLOOR MOUNTED HANDRAIL EACH SIDE PROTECT EXIST'G PORCH EXTENSION PROVIDE CONCRETE DOOR SILL FLUSH TO INTERIOR FLOOR -

DOWNSPOUT W' BOTTOM EXTENSION, TYP

CONCRETE TOPPING, SLOPE TO EXIST'G CONCRETE

