

A

three inches = one foot
1
0
6"



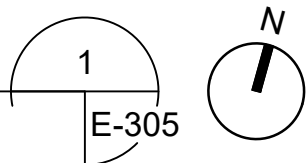
69-0-A
69-0-B
PANEL



PANELS 69-0-A & 69-0-B

BUILDING 69 - B200 COMPLEX - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.



B

one and one half inches = one foot
1
0
6"

C

one inch = one foot
1
0
6"



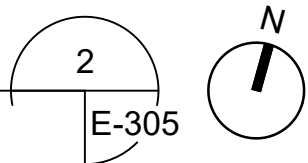
NOTE: LOOK AT B204 FOR LOCATION



MSBA PANEL

BUILDING 77 - B200 COMPLEX - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.

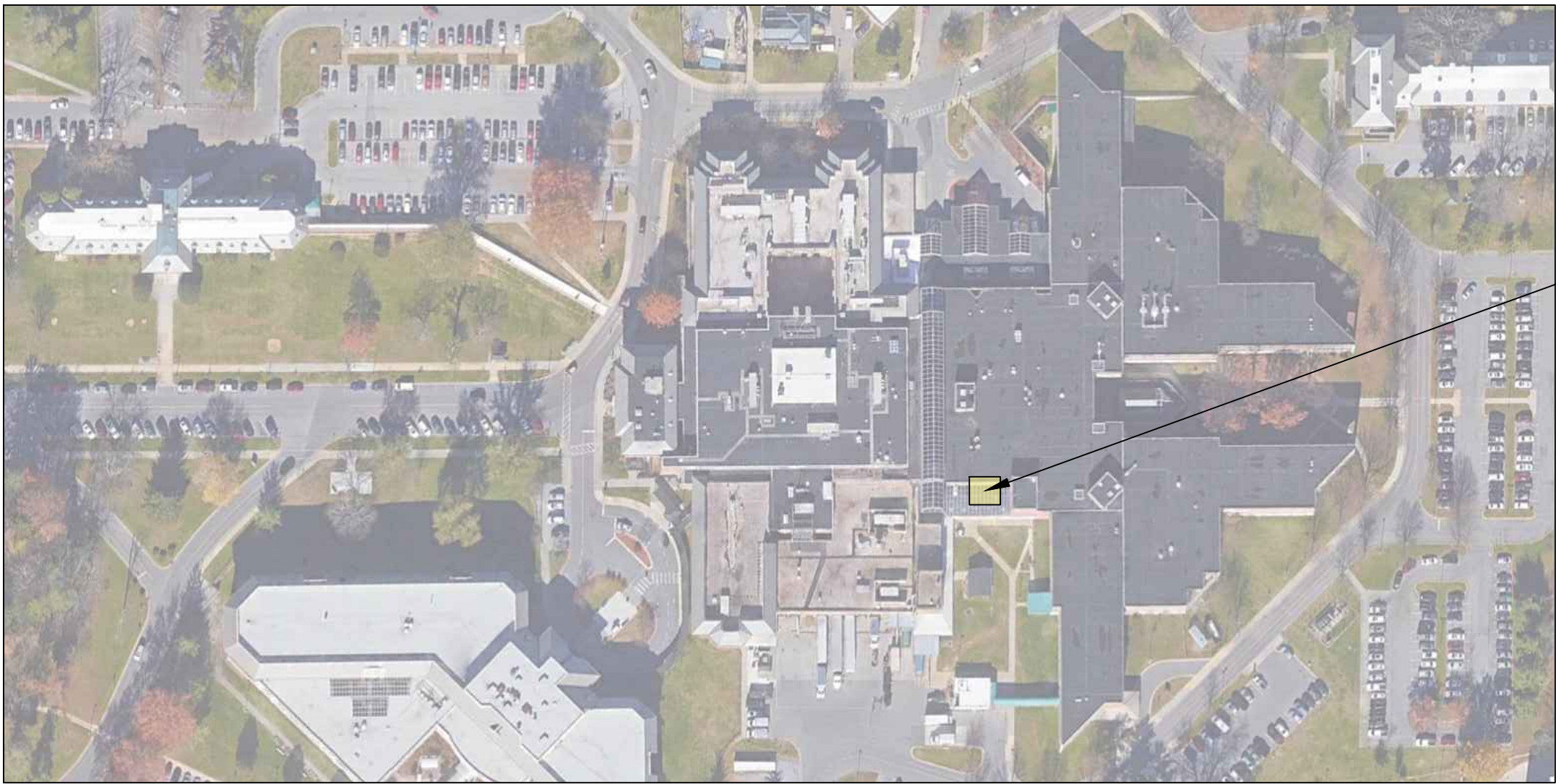


D

three quarters inch = one foot
2
0
6"

E

one half inch = one foot
1
0
6"



MSG-200
PANELS



GENERATORS

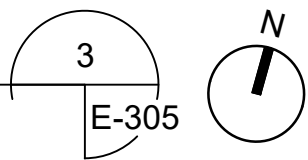


MSG-200

1. PROVIDE NEW TYPE 1, 240 KA SPD FOR MAIN SERVICE PANEL (MSG-200, 480 VOLTS, 3200 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.
3. PROVIDE A NEW TYPE 1, 240 KA SPD FOR GENERATOR #1 BREAKER (480 VOLTS, 1800 AMPS). CONNECT TERMINALS OF SPD ON GENERATOR FEED TO BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.
4. PROVIDE A NEW TYPE 1, 240 KA SPD FOR GENERATOR #2 BREAKER (480 VOLTS, 1800 AMPS). CONNECT TERMINALS OF SPD ON GENERATOR FEED TO BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.
5. PROVIDE A NEW GROUND BUS FOR BUILDING. SEE GENERAL NOTE 11 & 12.
6. SEE GENERAL NOTE 13

BUILDING 200 - B200 COMPLEX - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.



F

three eighths inch = one foot
4
0
6"

one eighth inch = one foot
8
0
6"

one quarter inch = one foot
4
0
6"



one eighth inch = one foot
4
0
6"

one quarter inch = one foot
4
0
6"

one eighth inch = one foot
4
0
6"

one quarter inch = one foot
4
0
6"

one eighth inch = one foot
4
0
6"

		CONSULTANTS:		ARCHITECT/ENGINEERS:	<div><div><div></div><div>Raymond-Pond SDVOSB JV, LLC 1035 Green St. SE, Suite A Conyers, GA 30012 770-483-9592 Art Warner</div></div></div>	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management
						MAIN ELECTRICAL PANEL MAPS (200 Complex – 69, 77 & 200)		LIGHTNING PROTECTION & GROUNDING STUDY		621-22-117		
								BUILDINGS 3, 5, 8, 35, 36, 37, 108, 115, 116, 160, 161, 162, 200 COMPLEX (69, 77, 200, 204, 205) 201, 208		Building Number		
						Approved: Project Director		Location		Drawing Number		
								JAMES H. QUILEN VA MEDICAL CENTER MOUNTAIN HOME, TN		E-305		
								Date		Dwg. 29 of 33		
Revisions:	Date					SEPT. 2022	Checked RL	Drawn CAS		VA U.S. Department of Veterans Affairs		



B77 CRITICAL PANEL, EQUIPMENT PANEL, LIFE SAFETY PANEL

SWDB 204-XSB CRITICAL PANEL, EQUIPMENT PANEL, LIFE SAFETY PANEL



MAIN PANEL



EQUIPMENT PANEL



CRITICAL PANEL



LIFE SAFETY PANEL

BUILDING 204 - B200 COMPLEX - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.

1
E-306

N

1. PROVIDE A NEW TYPE 1, 240 KA SPD FOR MAIN SERVICE PANEL (SWBD 204-XSB, 480 VOLTS, 2000 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.

2. PROVIDE A NEW TYPE 1, 240 KA SPD FOR EQUIPMENT PANEL (480 VOLTS, 400 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.

3. PROVIDE A NEW TYPE 1, 240 KA SPD FOR LIFE SAFETY PANEL (480 VOLTS, 400 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.

4. PROVIDE A NEW TYPE 1, 240 KA SPD FOR CRITICAL SERVICES PANEL (480 VOLTS, 400 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.

5. PROVIDE A NEW GROUND BUS FOR BUILDING. SEE GENERAL NOTE 11 & 12.

6. SEE GENERAL NOTE 13.



PANEL MDP & GENERATOR PANEL



MDP

BUILDING 205 - B200 COMPLEX - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.


2
E-306

N


1. PROVIDE A NEW TYPE 1, 240 KA SPD FOR MAIN SERVICE PANEL (MDP-205, 480 VOLTS, 1200 AMPS). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN BREAKER/MAIN LUGS. SEE GENERAL NOTE 10 & 12.

2. PROVIDE A NEW GROUND BUS FOR BUILDING. SEE GENERAL NOTE 11 & 12.


3. SEE GENERAL NOTE 13



MAIN SWITCHBOARD SIDE A & B



SIDE A



SIDE B

BUILDING 208 - MAIN ELECTRICAL PANEL MAPS

SCALE: N.T.S.

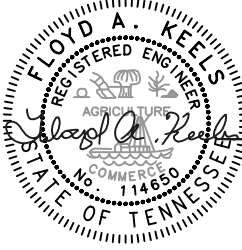


1
E-306

N

1. PROVIDE 2 NEW TYPE 1, 240 KA SPD FOR MAIN SERVICE PANEL (SIDE A, 480 VOLTS, 1200 AMPS (MAIN LUGS ONLY) & SIDE B, 480 VOLTS, 1200 AMPS (MAIN LUGS ONLY)). CONNECT TERMINALS OF SPD ON SERVICE FEED TO MAIN LUGS. SEE GENERAL NOTE 10 & 12.

2. ROUTE A 1/0 COPPER WIRE FROM NEW GROUND GRID TO NEW GROUND BUS FOR BUILDING. SEE GENERAL NOTE 11 & 12.

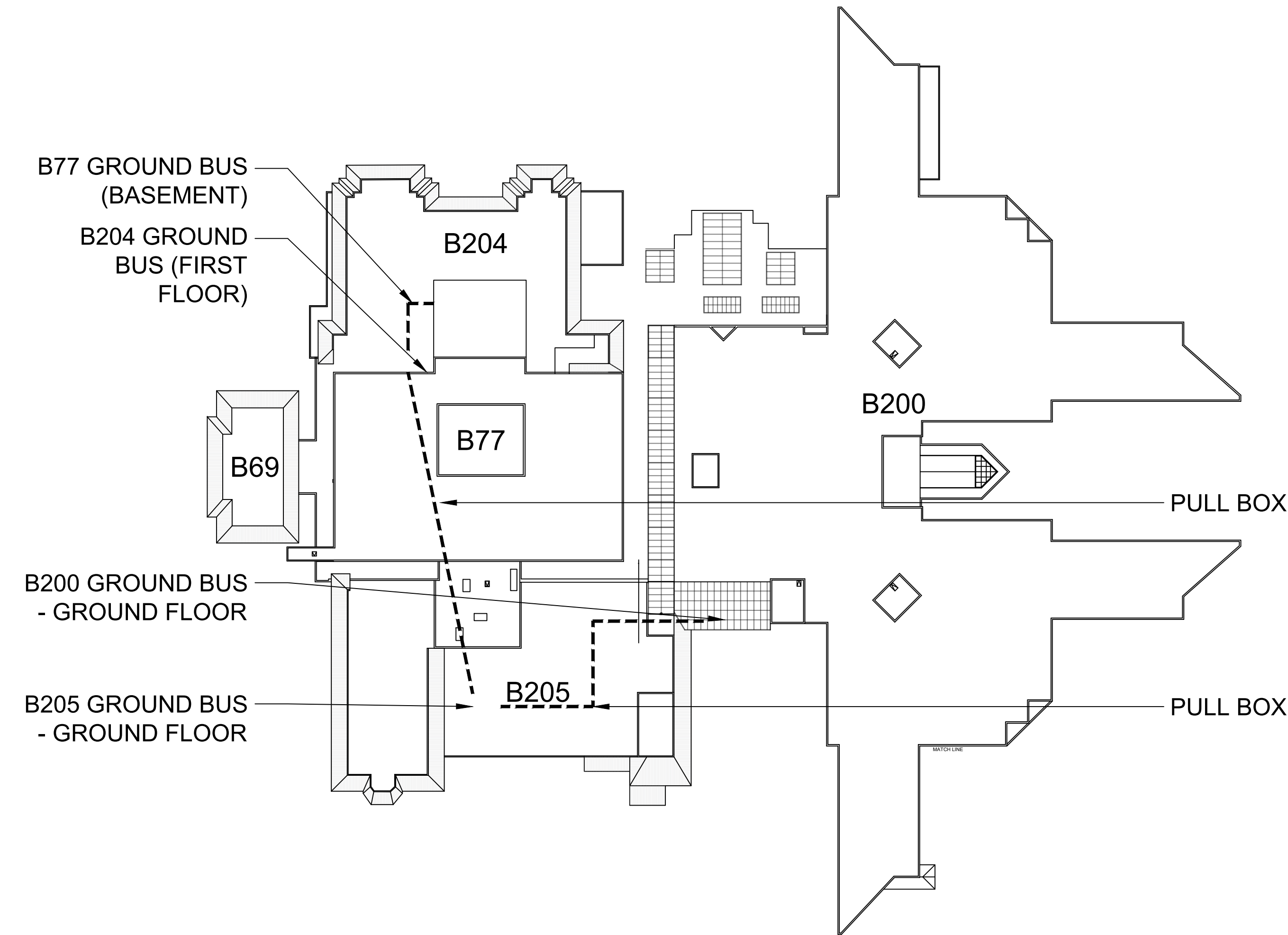
NOT IN CONTRACT

<div>Revisions:<div></div></div>		CONSULTANTS: <div></div>	<div></div>	ARCHITECT/ENGINEERS: <div><div><div>Raymond-Pond SDVOSB JV, LLC 1035 Green St. SE Suite A Conyers, GA 30012 770-483-9592 Art Warner</div></div></div>	Drawing Title MAIN ELECTRICAL PANEL MAPS (200 Complex – 204 & 205, 208)	Project Title LIGHTNING PROTECTION & GROUNDING STUDY BUILDINGS 3, 5, 8, 35, 36, 37, 108, 115, 116, 160, 161, 162, 200 COMPLEX (69, 77, 200, 204, 205) 201, 208			Project Number 621-22-117 Building Number		<div>Office of Construction and Facilities Management</div> <div> U.S. Department of Veterans Affairs</div>
				Approved: Project Director	Location JAMES H. QUILEN VA MEDICAL CENTER MOUNTAIN HOME, TN			Drawing Number E-306 Dwg. 30 of 33			
					Date SEPT. 2022	Checked RL	Drawn CAS				

GENERAL NOTES

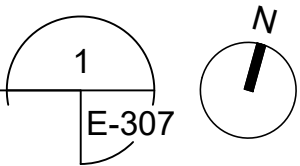
FOR THE B200 COMPLEX PROVIDE A 4/0 BAR COPPER WIRE IN RIGID CONDUIT BETWEEN EACH NEW GROUND BUS.

1. CONTRACTOR SHALL DETERMINE ROUTE OF 4/0 WIRE TO NEW GROUND BUS (ABOVE CEILING) WITH COR'S APPROVAL. SUGGESTED ROUTE IS FROM THE SWITCHGEAR IN THE BASEMENT OF 204 (SWITCHGEAR FOR B77) UP TO THE SWITCHGEAR ON THE FIRST FLOOR OF 204, OVER TO THE MAIN DISTRIBUTION PANEL IN 205 AND THEN DOWN THE HALL TO THE SWITCHGEAR IN 200.
2. IF RUN OF 4/0 CABLE IS OVER 250 FEET AND/OR MORE THAN 4(90-DEGREE) BENDS, INSTALL A JUNCTION BOX. CONTRACTOR MUST ENSURE CONTINUITY OF THE CONDUIT FROM ONE END TO THE OTHER. PROVIDE GROUNDING TYPE TERMINATIONS FOR BOTH END AND OUT CONDUITS. PROVIDE A CONNECTION PER DETAIL 20 FOR EACH INSTANCE OF ENTRANCE AND EXIT FROM PULL BOX. INSTALL COVER WITHOUT CASKETS FOR A GOOD METAL-TO-METAL CONNECTION.
3. AT THE GROUND BUS BARS, STOP RIGID CONDUIT WITHIN 1-FOOT OF THE BUS BAR. EXTEND CABLE WITH 2-HOLE CONNECTOR TO BUS BAR.
4. AT BOTH ENDS OF RIGID CONDUIT, INSTALL DEVICE THAT WILL BOND THE CABLE TO THE END OF THE RIGID CONDUIT PER DETAIL 20.

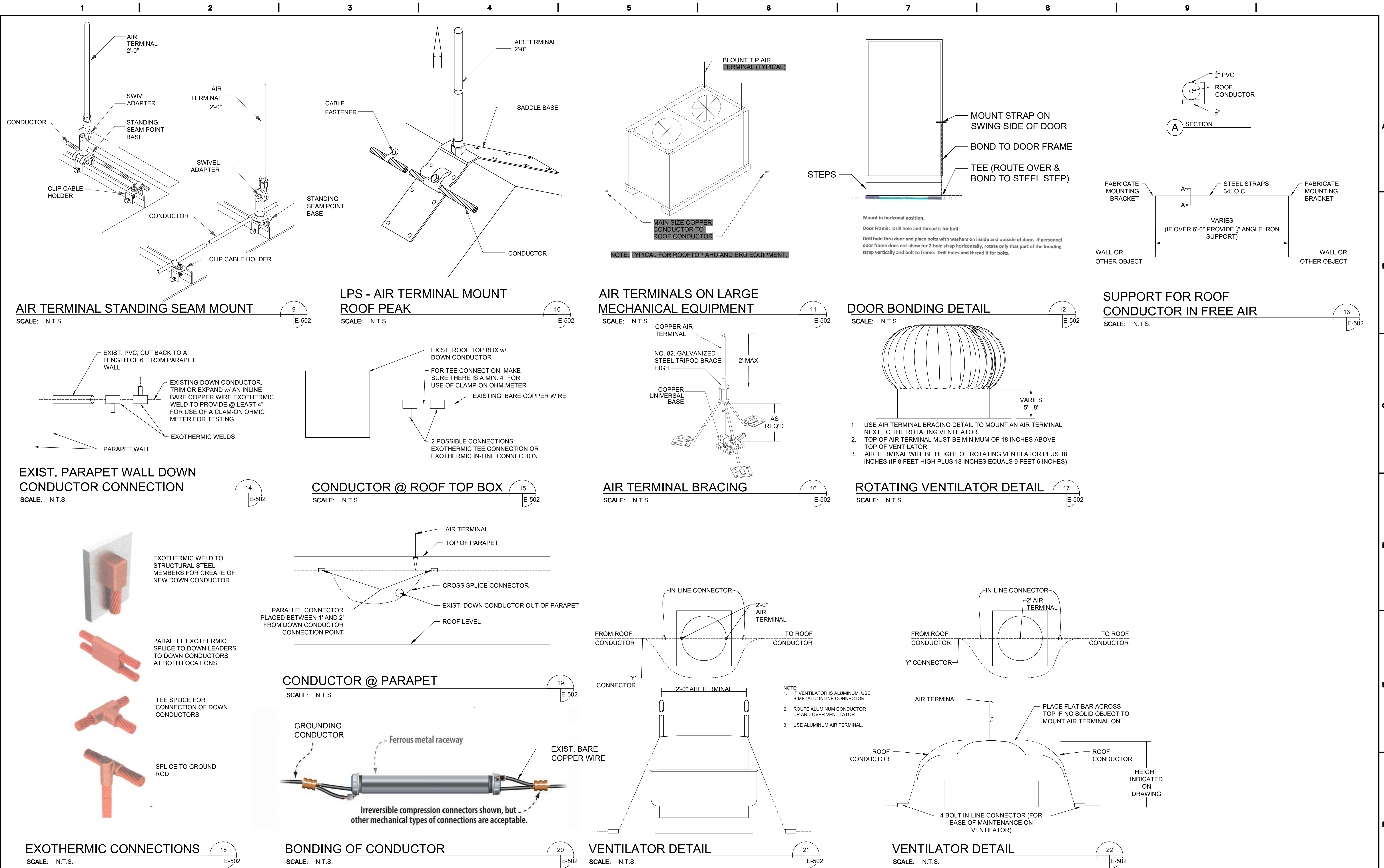


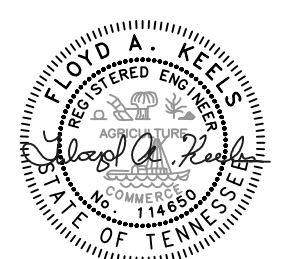


B200 COMPLEX - GROUND BUS BAR INTERCONNECTIONS

SCALE: N.T.S.



		CONSULTANTS:				ARCHITECT/ENGINEERS:		Drawing Title MAIN ELETRICAL PANEL MAPS (Interconnection of Buss Bars)		Project Title LIGHTNING PROTECTION & GROUNDING STUDY BUILDINGS 3, 5, 8, 35, 36, 37, 108, 115, 116, 160, 161, 162, 200 COMPLEX (69, 77, 200, 204, 205) 201, 208		Project Number 621-22-117 Building Number COMPLEX 200		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	
								Approved: Project Director		Location JAMES H. QUILLEN VA MEDICAL CENTER MOUNTAIN HOME, TN		Drawing Number E-307			
										Date SEPT. 2022		Checked RL			
Revisions:		Date												Dwg. 31 of 33	



		CONSULTANTS:		ARCHITECT/ENGINEERS:  Raymond-Pond SDVOSB JV, LLC 1035 Green St. SE Suite A Conyers, GA 30012 770-483-9592 Art Warner	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management  U.S. Department of Veterans Affairs
					TYPICAL DETAILS		LIGHTNING PROTECTION & GROUNDING STUDY BUILDINGS 3, 5, 8, 35, 36, 37, 108, 115, 116, 160, 161, 162, 200 COMPLEX (69, 77, 200, 204, 205) 201, 208		621-22-117		
									Building Number		
									Drawing Number		
									E-502		
									Dwg. 33 of 33		
Revisions:		Date		Approved: Project Director		Location JAMES H. QUILLEN VA MEDICAL CENTER MOUNTAIN HOME, TN		Date SEPT. 2022		Checked RL	Drawn CAS