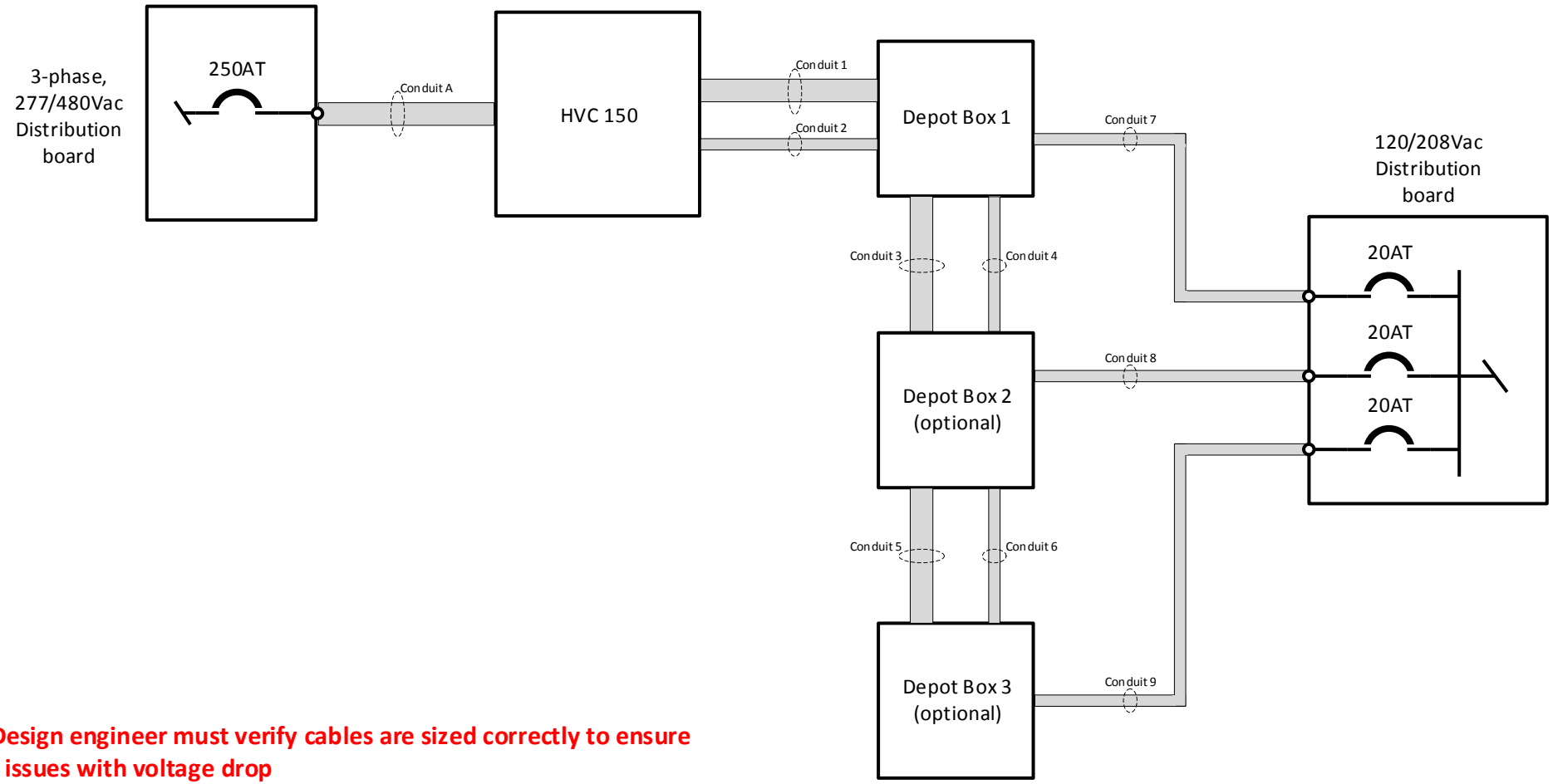


*** Design engineer must verify cables are sized correctly to ensure no issues with voltage drop**

CONDUIT IDs	FUNCTION OF INTERNAL CABLES	CABLE SELECTION	COMMENTS
A	AC PRIMARY POWER	(3) 250 KCMIL (CU, THWN, 75°C, 600V) + (1) #4 (CU, EGC, 600V)	UPSTREAM OCPD RATED 250A
1, 3, 5	DC POWER (200A)	(2) 3/0 (CU, DLO, 90°C, 1KV) + (1) #6 (CU, EGC, 600V)	
2	INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (1) TWISTED PAIR OF #18 (SHIELDED, 600V)	
	FIBER CAN	(1) MULTIMODE FIBER (OM3, 8 STRANDS)	ST CONNECTORS ON ALL ENDS
	ETHERNET CAN		
4, 6	FIBER CAN	(1) MULTIMODE FIBER (OM3, 4 STRANDS)	
	ETHERNET	(1) ETHERNET (S/FTP, CAT6/CAT5e)	RJ45 CONNECTORS ON ALL ENDS
	INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (2) TWISTED PAIR OF #18 (SHIELDED, 600V)	
	DC GUARD		
7, 8, 9	AC AUXILIARY POWER	(1) CABLE THAT HAS (2) #12 (CU, THWN, 75°C, 600V) + (1) #12 CU EGC	UPSTREAM OCPD RATED 20A. 1-PHASE 208V OR 120V IS OKAY

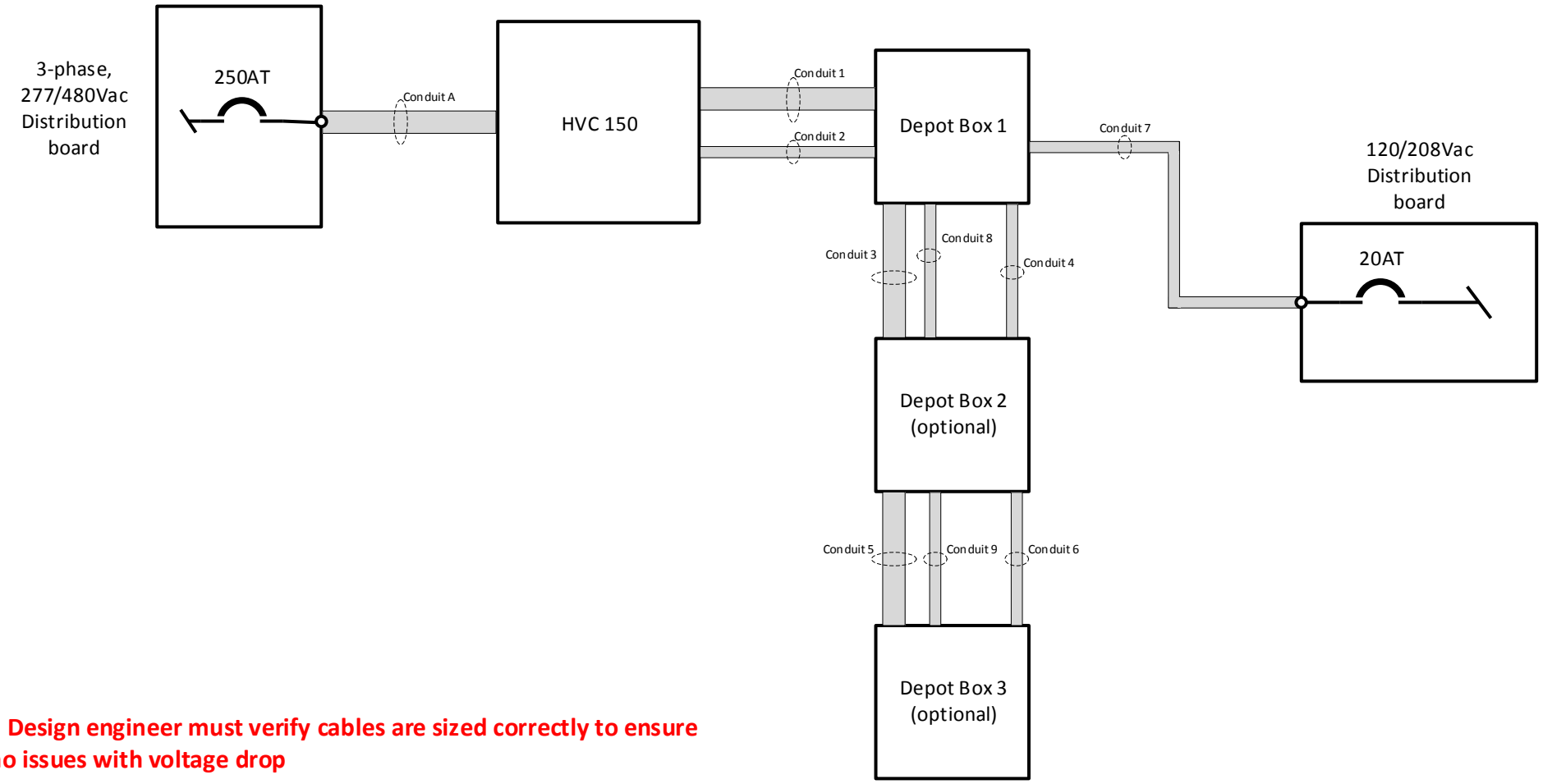
PRELIMINARY (FOR INFORMATION ONLY)

ABB is not liable for information contained herein which contradicts local codes, permitting requirements, and other requirements. ABB highly recommends a qualified design engineering firm to be responsible for the charging installation to ensure all of these requirements are met.

TITLE

ABB HVC Depot Box – Conduits and Cables

REV	DATE	BY	DESCRIPTION	DRAWING	REV
A	24/FEB/20	KLW	PRELIMINARY FOR DISCUSSION		A
-	-	-	-		
-	-	-	-		



*** Design engineer must verify cables are sized correctly to ensure no issues with voltage drop**

CONDUIT IDs	FUNCTION OF INTERNAL CABLES	CABLE SELECTION	COMMENTS
A	AC PRIMARY POWER	(3) 250 KCMIL (CU, THWN, 75°C, 600V) + (1) #4 (CU, EGC, 600V)	UPSTREAM OCPD RATED 250A
1, 3, 5	DC POWER (200A)	(2) 3/0 (CU, DLO, 90°C, 1KV) + (1) #6 (CU, EGC, 600V)	
2	INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (1) TWISTED PAIR OF #18 (SHIELDED, 600V)	
	FIBER CAN	(1) MULTIMODE FIBER (OM3, 8 STRANDS)	ST CONNECTORS ON ALL ENDS
	ETHERNET CAN		
4, 6	FIBER CAN	(1) MULTIMODE FIBER (OM3, 4 STRANDS)	
	ETHERNET	(1) ETHERNET (S/FTP, CAT6/CAT5e)	RJ45 CONNECTORS ON ALL ENDS
	INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (2) TWISTED PAIR OF #18 (SHIELDED, 600V)	
	DC GUARD		
7, 8, 9	AC AUXILIARY POWER	(1) CABLE THAT HAS (2) #12 (CU, THWN, 75°C, 600V) + (1) #12 CU EGC	UPSTREAM OCPD RATED 20A. 1-PHASE 208V OR 120V IS OKAY

PRELIMINARY (FOR INFORMATION ONLY)

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TITLE

ABB HVC Depot Box – Conduits and Cables

REV	DATE	BY	DESCRIPTION	DRAWING	REV
A	24/FEB/20	KLW	PRELIMINARY FOR DISCUSSION		A
-	-	-	-		
-	-	-	-		

PRELIMINARY (FOR INFORMATION ONLY)

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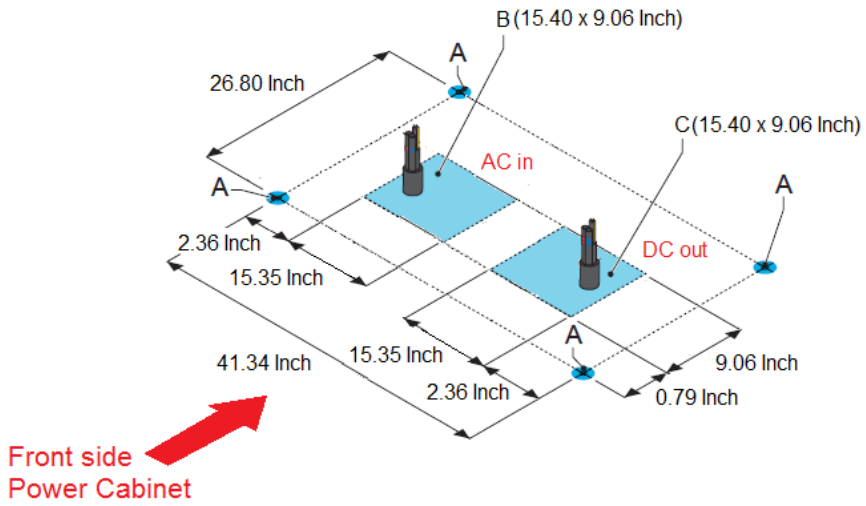
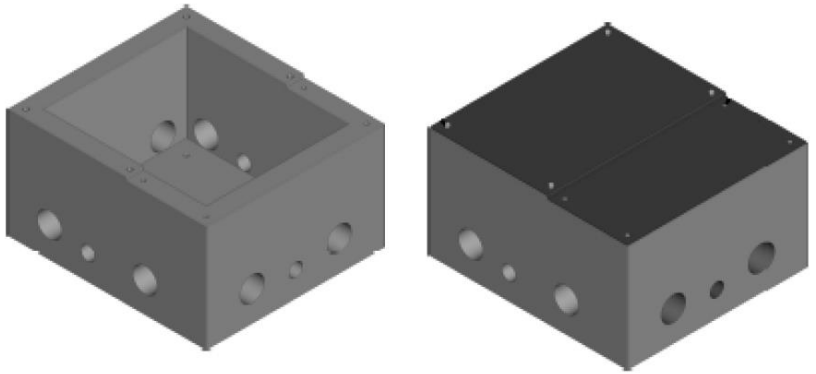
Option #1 – Direct on a concrete pad



1. Prepare rectangular holes in the concrete as shown in positions (B) and (C). The holes are to allow room for cable bending and should have sufficient depth.
2. Select conduit locations within the holes in a way to satisfy the local requirements for cable bending, especially for the AC input and DC output cables.
3. Ensure cabling between the conduit exit within the holes and into the power cabinet's cable entry plate complies with local codes.
4. See the Terra HP installation guide for more details.

Option #2 - Precast



1. ABB has a precast design drawing which may be used to manufacture a precast solution by a precast manufacturer. Upon request ABB would be able to provide this drawing. Also, ABB has precast companies to recommend who could provide a solution and that are familiar with this design and can make modifications to the design as needed.
2. ABB has extensive successful experience with this precast design in Europe. It is the installer's responsibility to ensure the precast is manufactured and installed correctly.
3. See the Terra HP installation guide for more details.

TITLE

Terra HP Power Cabinet Foundation

REV	DATE	BY	DESCRIPTION	DRAWING	REV
A	06/FEB/20	RSJ	PRELIMINARY FOR DISCUSSION		A
-	-	-	-		
-	-	-	-		