CONDUITS AND FITTINGS

UGS

DUCT MATERIAL AND TYPE MINIMUM REQUIREMENTS

CONDUIT MATERIAL TYPE	PVC SCH 40	FULLY ENCASED EB-35 / DB-100	FIBERGLASS	H.D.G. STD	PVC SCH 80
A. Primary System					
1. Straight Ducts:					
a. Concrete Encased (4 or more) 8		X			
b. Direct Burried					
- Commercial	X				
- Residential					
- 4" or Larger Duct	X				
2. Riser Bends			X		
3. Riser Conduits					X
4. Horizontal Bends					
a. Concrete Encased (4 or more) 8		X			
b. Direct Burried	X				
5. Vertical Bends			X		
B. Secondary and Communication System					
1. Straight Ducts:					
a. Concrete Encased (4 or more) 8		X			
b. Direct Burried					
- Commercial	X				
- Residential					
- 3" Duct	X				
- 4" Duct	X				
2. Riser Bends					
a. Riser Poles 8			X		
b. Riser Bends Communication 2"					X
3. Riser Conduits at House or Building.					
a. Single Family Residential 8	X				
b. Commercial Building (3 or less) 8	X				
c. Conduit(s) Under a Building.		X			
4. Horizontal Bends					
a. Concrete Encased (4 or more) 8		X			
b. Direct Burried	X				
C. Street Light					
1. 1" Riser Bends at Pole 8				X	
2. Other Bends	X				
3. Straight Ducts	X				
4. 3" Riser Bend 8			X		

Notes:

1. Sweep minimum radius:
   A. Primary ducts runs = 12.5' R
   B. Secondary duct runs 4" & larger = 12.5' R.
   C. Secondary duct runs 3.5" and smaller = 3' R.
2. See UGS-115.1, and UGS-116 for riser bend requirements.
3. Adapters shall be standard types subject to Department approval.
4. No materials labeled as "pipe" will be accepted as conduit.
5. 8 Reference Standards are NEMA TC-2 for SCH. 40 & 80, NEMA TC-6 for EB-35 and NEMA TC-8 for DB-100.
6. No flex duct or offsets are allowed.
7. 8 Four or more conduits shall be fully encased in concrete.

Revision

REVISION: Updated Notes, Added DB-100

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APPROVED BY: Jorge Romano

APPROVED DATE: 08/07/09

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