



STANDARD SIZES ( ALL DIMENSIONS ARE INTERNAL ) :

- FOR STRAIGHT LINE URD SYSTEMS (CONCENTRIC NEUTRAL CABLES) - 4' x 6'
- FOR CORNERS IN URD (CONCENTRIC NEUTRAL CABLES) OR SMALL POWER CABLE SYSTEMS (SMALLER THAN 500KCMIL) - 5' x 10'
- FOR LARGE POWER CABLE SY STEMS (LARGER THAN 500KCMIL CABLES) - 6' x 12'

CONSTRUCTION & INSTALLATION NOTES:

1. MANHOLES MUST BE DESIGNED TO AASHTO HS - 20 LOADING CRITERIA. COPIES OF SUPPLIERS' DESIGN CALCULATIONS ARE TO BE PROVIDED TO DUKE ENERGY PRIOR TO INSTALLATION.
2. THE BOTTOM OF THE EXCAVATION FOR THE PRECAST MANHOLE SHOULD BE FILLED WITH AN 8" THICK LAYER OF CRUSHED ROCK. IT SHOULD BE LEVEL. A SUMP OR "FRENCH DRAIN", 3 FT. SQUARE AND 3 FT. DEEP AND FILLED WITH GRAVEL SHOULD BE PLACED UNDER THE SUMP HOLE KNOCKOUT IN THE MANHOLE. THE SUMP HOLE SHOULD BE OPENED AFTER THE MANHOLE IS SET.
3. MANHOLES SHALL HAVE 3/4" x 8" LONG STAINLESS STEEL PULL BOLTS OR 3/4" PULLING IRONS INCORPORATED INTO WALL LS BELOW EACH DUCT ENTRY. THE WALL AND PULLING IRONS OR BOLTS MUST WITHSTAND 25,000 - POUND TENSILE LOAD.
4. MANHOLE FLOORS ARE TO HAVE A 1" ID PVC SLEEVE INSTALLED THROUGH THE FLOOR IN EACH CORNER FOR GROUND ROD INSTALLATION. SLEEVES ARE TO BE LOCATED 1' FROM EACH WALL.
5. MANHOLE FLOORS ARE TO HAVE A 12" DIAMETER RECESS LOCATED IN THE CENTER OF THE FLOOR FOR PUMPING OUT WATER.
6. MANHOLE OPENING TO BE 36" IN DIAMETER THROUGH THE CEILING. THE MANHOLE OPENING IS TO BE EXTENDED TO FINISHED GRADE WITH PRECAST NECK SECTIONS OR BRICK AS NECESSARY.
7. MANHOLE FRAME AND COVER MUST MEET ASSHTO HS - 20 LOADING CRITERIA. MANHOLE COVER TO BE 30" IN DIAMETER. MANHOLE COVER MUST IDENTIFY THE APPROPRIATE DUKE ENERGY OPERATING COMPANY (DUKE ENERGY OHIO, KENTUCKY, OR INDIANA). NOTE: DUKE ENERGY CUSTOMER PROJECTS COORDINATOR WILL PROVIDE INFORMATION ON AVAILABILITY OF MANHOLE FRAME & COVER.
8. DUCTS ENTERING MANHOLE ARE TO BE FINISHED OFF WITH BELL ENDS FITTED FLUSH TO THE INSIDE WALLS.
9. DUCTS SHOULD ENTER MANHOLES AT LEAST 8" FROM SIDEWALLS AND AT LEAST 15" DOWN FROM THE CEILING OR UP FROM THE FLOOR.
10. DUCTS SHOULD BE SPREAD OUT AS THEY ENTER THE MANHOLES SEPARATED FROM EACH OTHER BY 4" (OUTSIDE OF DUCT TO OUTSIDE OF DUCT). THE AREA BETWEEN DUCTS SHALL BE FILLED WITH CONCRETE AND FINISHED FLUSH TO THE WALL.