

ELECTRICAL MANHOLE LOCATION CHART. Table with columns: NUMBER, NORTH AND EAST COORDINATES, DETAIL, PERMANENT PUMP, TEMPORARY PUMP. Rows 1-19.

DUCT RUN LOCATION CHART. Table with columns: WORKING POINT, NORTH AND EAST COORDINATES, BOTTOM ELEVATION, CONDUIT ARRANGEMENT. Rows 1-42.

DUCT RUN LOCATION CHART (CONTINUED). Table with columns: WORKING POINT, NORTH AND EAST COORDINATES, BOTTOM ELEVATION, CONDUIT ARRANGEMENT. Rows 43-84.

DETAIL LOCATION CHART. Table with columns: DETAILS, DRAWING NUMBER. Rows 1-27.

- NOTES: 1. ALL CONDUITS IN UNDERGROUND DUCT RUNS TO BE 2" SCHEDULE 20 PVC... 2. ALL BENDS FOR CONDUIT IN A... 3. ALL CONDUITS IN UNDERGROUND DUCT RUNS TO HAVE EXPANSION COUPLINGS... 4. ALL NUCLEAR SAFETY RELATED DUCT RUNS... 5. ALL CONDUITS IN UNDERGROUND DUCT RUNS ENTERING MANHOLES TO HAVE... 6. BLANK... 7. ALL MANHOLES IN A NON-NUCLEAR SAFETY RELATED DUCT RUN... 8. ALL NON-NUCLEAR SAFETY RELATED DUCT RUNS WILL HAVE... 9. ALL NON-NUCLEAR SAFETY RELATED DUCT RUNS AT UNDERGROUND MANHOLES... 10. BLANK... 11. ALL NON-NUCLEAR SAFETY RELATED DUCT RUNS AT UNDERGROUND MANHOLES... 12. ALL NON-NUCLEAR SAFETY RELATED DUCT RUNS UNDER ROADS TO HAVE... 13. ALL NON-NUCLEAR SAFETY RELATED DUCT RUNS UNDER RAILROADS TO HAVE... 14. SPACING BETWEEN CONDUITS FOR DUCT RUNS BASED ON CARBON PLASTIC SPACERS... 15. UNDERGROUND DUCT RUNS ENTER BUILDING STRUCTURES AND UNDERGROUND MANHOLES... 16. WORKING POINT DIMENSIONS AT NON-TYPICAL DIMENSIONS IN PLAN VIEW... 17. THE WORKING POINT FOR A VERTICAL DUCT BANK BEND IS THE SAME WORKING POINT... 18. ALL FUTURE CONDUITS TO BE 4" GALVANIZED STEEL AND COPPER... 19. ALL NUCLEAR SAFETY RELATED UNDERGROUND DUCT RUNS TO BE REINFORCED... 20. NON-NUCLEAR SAFETY RELATED DUCT RUNS ARE NOT TO BE REINFORCED... 21. ELECTRICAL UNDERGROUND DUCT RUN DRAWINGS ARE TO BE WELDED IN CONJUNCTION... 22. TRANSMISSION OF CONCRETE ENCASEMENT FOR NON-NUCLEAR SAFETY RELATED DUCT BANKS... 23. FOR MISCELLANEOUS SECTIONS AND DETAILS... 24. GROUNDING BAR TO BE 2" x 1/4" COPPER BAR... 25. WHERE UNDERGROUND DUCT RUNS ENTER BUILDINGS, STRUCTURES, AND UNDERGROUND MANHOLES... 26. CONDUITS USING STEEL TO PVC ADAPTERS MUST BE INSTALLED WITH A TEMPORARY BLANK GALVANIZED PENNY.

COMMUNICATION SYSTEM MANHOLE LOCATION CHART. Table with columns: NUMBER, NORTH AND EAST COORDINATES, DETAIL, PERMANENT PUMP, TEMPORARY PUMP. Rows 1-9.

DUCT RUN LOCATION CHART (CONTINUED). Table with columns: WORKING POINT, NORTH AND EAST COORDINATES, BOTTOM ELEVATION, CONDUIT ARRANGEMENT. Rows 85-126.

DUCT RUN LOCATION CHART (CONTINUED). Table with columns: WORKING POINT, NORTH AND EAST COORDINATES, BOTTOM ELEVATION, CONDUIT ARRANGEMENT. Rows 127-168.

DETAIL LOCATION CHART. Table with columns: DETAILS, DRAWING NUMBER. Rows 28-44.

- REFERENCES: D-216-002 UNDERGROUND DUCT RUNS - MISCELLANEOUS SECTIONS AND DETAILS... D-216-011 MANHOLES AND UNDERGROUND DUCT RUNS - PLAN... D-216-012 UNDERGROUND DUCT RUNS - BETWEEN RADWASTE BUILDING AND TURBINE POWER COMPLEX... D-216-013 UNDERGROUND DUCT RUNS - DIESEL GENERATOR BUILDING... D-216-014 UNDERGROUND DUCT RUNS - BETWEEN SERVICE BUILDING AND TURBINE POWER COMPLEX... D-216-015 UNDERGROUND DUCT RUNS - CIRCULATING WATER PUMP HOUSE (UNIT 1)... D-216-016 UNDERGROUND DUCT RUNS - DIVISION #1 TO EMERGENCY SERVICE WATER PUMP HOUSE EAST OF PLANT... D-216-017 UNDERGROUND DUCT RUNS - DIVISION #2 AND #3 TO EMERGENCY SERVICE WATER PUMP HOUSE WEST OF PLANT... D-216-018 UNDERGROUND DUCT RUNS - SECTIONS AND DETAILS... D-216-019 UNDERGROUND DUCT RUNS - FIRE SERVICE BUILDING AND DECAT PUMP HOUSE... D-216-020 UNDERGROUND DUCT RUNS - SERVICE TO UNDERGROUND MANHOLES #1, #2, #3, #10, #11 AND #23... D-216-021 UNDERGROUND DUCT RUNS - AREA SOUTH AND WESTWEST OF WATER TREATING BUILDING... D-216-022 UNDERGROUND DUCT RUNS - SERVICE WATER PUMP HOUSE NORTH OF PLANT... D-216-023 UNDERGROUND DUCT RUNS - CIRCULATING WATER PUMP HOUSE (UNIT 2)... D-216-024 UNDERGROUND DUCT RUNS - EMERGENCY SERVICE WATER PUMP HOUSE NORTH OF PLANT... D-216-025 UNDERGROUND DUCT RUNS - SECTIONS AND DETAILS... D-216-026 UNDERGROUND DUCT RUNS - NEAR TRANSMISSION STATION WESTWEST OF PLANT... D-216-027 UNDERGROUND DUCT RUNS - COMMUNICATION SYSTEM TO PLANT... D-216-028 UNDERGROUND DUCT RUNS - MISCELLANEOUS DUCT RUNS EAST SIDE OF PLANT... D-216-029 UNDERGROUND DUCT RUNS - MISCELLANEOUS DUCT RUNS... D-216-031 UNDERGROUND DUCT RUNS - GUARDHOUSE

LEGEND: (EXCEPT DUC. D-216-011) --- CONDUIT ENCASED IN CONCRETE --- EDGE OF CONCRETE ENCASEMENT

TERA APERTURE CARD

NUCLEAR SAFETY RELATED

REVISIONS table with columns: NO., DATE, MADE, CHECKED, APPROVED. Includes construction status: LIMITED CONSTRUCTION; AS NOTED PRELIMINARY NOT FOR CONSTRUCTION BIDDING PURPOSES. Date: RELEASED FOR ENGR. THE CLEVELAND ELECTRIC ILLUMINATING COMPANY PERRY NUCLEAR POWER PLANT UNITS 1 & 2. ELECTRICAL UNDERGROUND DUCT RUNS. NOTES, LEGEND AND REFERENCES. GILBERT ASSOCIATES, INC. ENGINEERS AND CONSULTANTS. DRAWING NUMBER: 04 4549 D-216-001 H. REV: 044549-000.

22" 17" 11" 17" 22" 34"

22" 17" 11" 17" 22" 34"

R.05

8112040201

