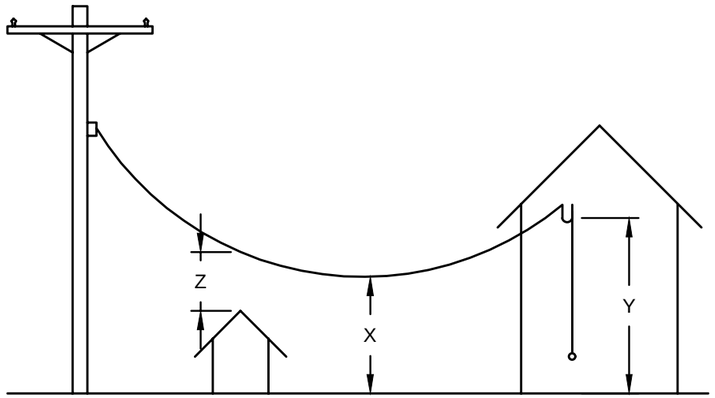


X: IN-SPAN GROUND CLEARANCE
Y: DRIP LOOP GROUND CLEARANCE
Z: ROOF OR BALCONY CLEARANCE

SERVICE DROP CABLE CLEARANCE (A)(B)

NATURE OF SURFACE UNDERNEATH SERVICE DROP CABLE	VERTICAL CLEARANCE ABOVE SURFACE FOR SERVICE DROP CABLE (FEET)
TRACK TRAILS OF RAILROADS	24.0
ROADS, STREETS, DRIVEWAYS, PARKING LOTS, ALLEYS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC	16.0 (C)
DRIVEWAYS , PARKING LOTS, AND ALLEYS	16.0 (D)
SPACES AND WAYS SUBJECT TO PEDESTRIANS OR RESTRICTED TRAFFIC ONLY	12.0 (E)(F)
ROOFS OR BALCONIES	11.0 (G)
SWIMMING POOLS	22.5 (H)

REFERENCE NESC TABLE 232-1

CODED NOTES:

(A) ALL CLEARANCES LISTED ARE PER NESC 2017. THESE ARE MINIMUM CLEARANCES WHICH MUST BE MET FOR THE SAG CONDITION WHICH CAN OCCUR EITHER AT MAXIMUM OPERATING CONDUCTOR TEMPERATURE OR, MAXIMUM LOADING AT 32°F, NESC ICE, FINAL SAG. AN INCREASE IN DESIGN CLEARANCE AT TIME OF INSTALLATION IS RECOGNIZED AND ACCEPTABLE TO ACCOUNT FOR FUTURE RESURFACING OR GRADE CHANGES. A 12 INCH INCREASE IS TYPICAL IN LIEU OF ANY SPECIFIC INFORMATION. IT IS RECOMMENDED THAT THIS FACTOR SHOULD BE CONSIDERED AND, AS APPROPRIATE, INCLUDED WHEN PLANNING SERVICE INSTALLATIONS. A POINT OF CLARIFICATION IS NECESSARY REGARDING WHAT CAN APPEAR TO BE A 2 FOOT INCONSISTENCY BETWEEN THE NESC AND THE NEC FOR CLEARANCES OVER "ROADS, STREETS, DRIVEWAYS, PARKING LOTS. ALLEYS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC" (NESC - 16 FEET VS. NEC - 18 FEET). NEC CLEARANCES ARE SPECIFIED (WITH LESS SAG) AT A CONDUCTOR TEMPERATURE OF 60°F, NO WIND, WITH FINAL UNLOADED SAG IN THE CONDUCTOR. THE 2 FT. DIFFERENCE IS PARTIALLY ATTRIBUTED TO A COMPARATIVELY LARGER SAG BY NESC SPECIFICATIONS. ADDITIONAL ALLOWANCE MADE FOR RESURFACING, ETC. IN APPLICATION OF THE NESC RULE WILL ACCOUNT FOR THE REST OF THE 2 FT DIFFERENCE. A SERVICE INSTALLED TO EITHER SPECIFICATION WOULD BE VERY SIMILAR WHEN ANALYZED BY THE OTHER. THEREFORE, THERE IS NO PRACTICAL INCONSISTENCY BETWEEN THE TWO CODES IN THIS SITUATION.

(B) IN ADDITION TO PROPER DESIGN FOR GROUND/SURFACE CLEARANCES, BE CAREFUL TO PROVIDE CLEARANCES FROM BUILDING OPENINGS, WINDOWS, DOORS, ETC. (TYPICALLY, 3'-0"). PROVIDE A MINIMUM CLEARANCE OF 3 IN FROM DOWNSPOUTS AND EAVES FOR SERVICE CONDUCTORS 0 TO 750 VOLT. FOR CONDUCTORS MEETING NESC RULE 230C1, 230C2, 230C3 THIS CLEARANCE MAY BE REDUCED TO 1 IN. ROUTE SERVICES SO THAT RAISED PATION/DECK AREAS CAN BE AVOIDED IF POSSIBLE. AS AN ALTERNATIVE, CONSIDER PROVIDING ADDITIONAL CLEARANCE, WHEN FEASIBLE.

(C) TRUCK ARE DEFINED AS ANY VEHICLE EXCEEDING 8 FEET IN HEIGHT. AREAS NOT SUBJECT TO TRUCK TRAFFIC ARE AREAS WHERE TRUCK TRAFFIC IS NOT NORMALLY ENCOUNTERED NOR REASONABLY ANTICIPATED.

(D) FOR RESIDENTIAL DRIVEWAYS ONLY, WHEN A BUILDING DOES NOT HAVE SUFFICIENT HEIGHT TO ALLOW A SERVICE ATTACHMENT LOCATION WHICH WILL PROVIDE 15 FT. OF CLEARANCE, THE CLEARANCES MAY BE REDUCED TO:
SERVICES 277 VLG:
IN-SPAN GROUND CLEARANCE - 12.5 FEET
DRIP LOOP GROUND CLEARANCE - 10.5 FEET
SERVICES 120 VLG:
IN-SPAN GROUND CLEARANCE - 12.0 FEET
DRIP LOOP GROUND CLEARANCE - 10.0 FEET

(E) SPACES AND WAYS SUBJECT TO PEDESTRIAN OR RESTRICTED TRAFFIC ONLY ARE THOSE AREAS WHERE RIDERS ON HORSEBACK, VEHICLES OR OTHER MOBILE UNITS EXCEEDING 8 FEET IN HEIGHT, ARE PROHIBITED BY REGULATION OR PERMANENT TERRAIN CONFIGURATIONS OR ARE OTHERWISE NOT NORMALLY ENCOUNTERED NOR REASONABLY ANTICIPATED.

(F) WHEN A BUILDING DOES NOT HAVE SUFFICIENT HEIGHT TO ALLOW A SERVICE ATTACHMENT LOCATION WHICH WILL PROVIDE 12 FT. OF CLEARANCE. THE CLEARANCE MAY BE REDUCED TO:
SERVICE 277 VLG:
IN-SPAN GROUND CLEARANCE - 10.5 FEET
DRIP LOOP GROUND CLEARANCE - 10.5 FEET
SERVICE 120 VLG:
IN-SPAN GROUND CLEARANCE - 10.0 FEET
DRIP LOOP GROUND CLEARANCE - 10.0 FEET

(G) WHERE ROOFS OR BALCONIES ARE NOT READILY ACCESSIBLE AND WHERE VOLTAGE BETWEEN SERVICE CONDUCTORS DOES NOT EXCEED 300 VOLTS OR WHERE CABLES MEETING NESC RULE 230C2 OR 230C3 AND VOLTAGE DOES NOT EXCEED 750 VOLTS CLEARANCE MAYBE REDUCED TO 3.5 FEET.

(H) CLEARANCE IN ANY DIRECTION FROM THE POOL WATER LEVEL, EDGE OF POOL, BASE OF DIVING PLATFORM OR ANCHORED RAFT, CLEARANCE IN ANY DIRECTION TO A DIVING PLATFORM IS 14.5 FT.

CITY OF COLUMBUS, OHIO
DEPT. OF PUBLIC UTILITIES - DIVISION OF POWER

SERVICE DROP CABLE CLEARANCE FOR CONDUCTORS

DRAWN BY: AEC	DATE: 01/01/2018	TDMIS-606
APPROVED: R. SPRITE		
SCALE: NTS	SHEET: 1 OF 1	