

Master Metered MHP Transfers

SDG&E Electric Standards



SDG&E Standards

- SDG&E Standards were developed to meet the minimum legal requirements and to expand on those requirements when needed to enhance the safety of its workforce and the public
- Meets GO 95 & GO 128
- Meets OSHA & DOT
- SDG&E Standards provide for Workspace



Underground Standard 3370.5 Trench Installations

- Minimum Separation From Main Trench
- Horizontal Separation
- Vertical Separation
- Minimum Separation From Service Trench



MINIMUM SEPARATION MAIN TRENCH

UTILITY

TELCO MULTIPLE CONCRETE DUCT (CONDEX), TRANSITE, WATER, SEWER, FUEL, OIL, DIESEL, PROPANE GAS, SPRINKLER, DRAIN, LEACH LINES, STEEL GAS MAIN LARGER THAN 2", PRIVATELY OWNED UTILITIES I.E. PRIVATE TELCO, VIDEO, AUDIO, SECURITY WIRES, FIRE ALARM, STREET LIGHTING, ETC.

HORIZONTAL SEPARATION

NOT PERMITTED IN JOINT TRENCH
WITH GAS AND/OR ELECTRIC

WATER, SEWER, EXISTING GAS OR ELECTRIC, STORM DRAINS, STEAM, IRRIGATION PIPE, SPRINKLER PIPE LARGER THAN 4", PRIVATE ELCO TRANSITE, PROPANE GAS

* 5 FEET WITH 3 FEET OF UNDISTURBED SOIL

SEWAGE LEACH LINES OR SEEPAGE PITS

5 FEET FROM MAIN TRENCH FOR FACH 1' DEPTH OF MAIN TRENCH

IRRIGATION, SPRINKLER PIPE 4" AND LESS

* 3 FEET PROVIDED DEPTH OF PIPE DOES

* NOT EXCEED DEPTH OF GAS OR ELECTRIC

FUEL OIL GASOLINE, DIESEL

FROM GAS-15 FEET, FROM ELECT.-5 FEET WITH 3 FEET OF UNDISTURBED SOIL

IN CONSIDERATION FOR THE SAFETY OF THE GENERAL PUBLIC, PERSONS ENGAGED IN CONSTRUCTION, PROPERTY, AND FOR THE OPERATION AND MAINTENANCE OF SDG&E SYSTEM, PROPANE GAS LINES ARE NOT PERMITTED IN A JOINT TRENICH WITH SDG&E FACILITIES.

* IF FIELD CONDITIONS WILL NOT PERMIT ANY OF THESE SEPARATIONS, THEN APPROVAL OF REDUCED SEPARATIONS MUST COME FROM BOTH THE CUSTOMER PROJECT PLANNER AND SDG&E INSPECTOR. ON FIELD CONDITIONS THAT WILL NOT PERMIT STANDARD PARALLEL SEPARATIONS, A 12 INCH MINIMUM SEPARATION IS REQUIRED. PROPANE GAS SHALL ALWAYS HAVE A 5 FOOT SEPARATION.

VERTICAL (CROSSING)
UTILITY SEPARATION MIN.

ALL WET LITLETIES, TELCO, TV, GAS, ELECT. 6 INCHES

FUEL OIL, GASOLINE, DIESEL FROM GAS, 12 INCHES FROM ELECT. 6 INCHES

ARC-WELDABLE PIPELINES 3" AND LARGER 18 INCHES

STEAM FROM GAS, POLY PIPE 5 FEET (SEE NOTE) FROM ELECT., 5 FEET

NOTE: PLACE INSULATING BARRIER BETWEEN STEAM MAIN AND POLYETHYLENE PIPE AND/OR ELECTRIC.

MINIMUM SEPARATION SERVICE TRENCH

IN A SERVICE TRENCH, WATER, SEWER, PROPANE CAS, SPRINKLER, DRAIN, LEACH LINES, PRIVATELY OWNED UTILITIES I.E., PRIVATE TELCO, VIDEO, AUDIO, SECURITY WIRES, FIRE ALARM, STREET LIGHTING, ETC., ARE NOT PERMITTED IN THE SAME TRENCH WITH GAS OR ELECTRIC. WHEN THESE FACILITIES PARALLEL GAS OR ELECTRIC, 12 INCHES SEPARATION BETWEEN SEPARATE TRENCHES SHALL BE MAINTAINED BETWEEN THE UTILITIES WITH AT LEAST 12 INCHES OF UNDISTURBED NATIVE SOIL BETWEEN TRENCHES. PROPANE GAS SHALL ALWAYS HAVE A 5 FOOT SEPARATION. WHEN CROSSING, A 6 INCH VERTICAL SEPARATION IS REQUIRED.

(EXCEPTION) WHEN THERE IS NO SDO&E GAS IN THE SERVICE TRENCH, A SINGLE NATURAL GAS LINE MAY BE INSTALLED IN THE TRENCH, PROVIDED A 12 INCH RADIAL SEPARATION IS MAINTAINED. (THIS IS FOR AN INDIVIDUAL HOUSE ON A CASE BY CASE BASIS, NOT A GROUP OF HOUSES/BUILDINGS).

FUEL OIL, GASOLINE, AND DIESEL LINES MUST MAINTAIN A 15 FOOT SEPARATION FROM GAS PIPELINES AND A FIVE FOOT SEPARATION WITH THREE FEET OF UNDISTURBED SOIL SEPARATION FROM ELECTRIC CONDUITS.

IF FIELD CONDITIONS WILL NOT PERMIT THESE SEPARATIONS, THEN APPROVAL OF REDUCED SEPARATIONS MUST COME FROM BOTH THE CUSTOMER PROJECT PLANNER AND SDG&E INSPECTOR.

WHEN FIELD CONDITIONS WILL NOT PERMIT STANDARD PARALLEL SEPARATIONS, A 12 INCH MINIMUM SEPARATION IS REQUIRED. PROPANE GAS SHALL ALWAYS HAVE A 5 FOOT SEPARATION.

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SERVICE GUIDE	Indicates Lotest Revision	Completely Revised	New Page	Information R	emoved	CAS STD. 7403.5
	SI	G&E ELECTRIC STANE	ARDS		RE	VISION
3370.5	UNDERGROUN	D DISTRIBUTION (UD) TRENCHE	S		1-1-96
	AND UTILITY	POSITIONING -	S.D. COUNTY		APPD (\$10 7/£09



Underground Standard 3370.2 Trench Separations

- Main Trench & Service Trench Public Property (Minimum Separation)
- Service Trench Private Property (Minimum Separation)
- Vertical and Horizontal Separations
- Orange County has its Own Standards



THE FOLLOWING CHARTS SHOW THE MINIMUM COVER FOR EACH UTILITY, THE MINIMUM SEPARATION BETWEEN SPACE ALLOTMENTS AND THE MAXIMUM SIZE FOR EACH SPACE ALLOTMENT. TO READ THE CHARTS, READ ACROSS AND DOWN UNTIL THE TWO JOIN IN A SQUARE, AND THAT IS THE DISTANCE REQUIRED BETWEEN THE TWO UTILITIES.

		VE	RTICA	L	HORIZONTAL			
			ES		GS			
			1		H			
ES	ELECTRIC SERVICE	_	0	_	12"			

UNDER VERTICAL, "ES" & "ES" JOIN AT (CWHICH REFERS TO INSTALLATION NOTE (C).

UNDER HORIZONTAL, "ES" & "GS" JOIN AT 12 INCHES WHICH WOULD BE THE DISTANCE REQUIRED FROM THE
OUTER EDGE OF THE ELECTRIC SERVICE (SPACE ALLOTMENT) TO THE OUTER EDGE OF GAS SERVICE (SPACE ALLOTMENT).

MAIN TRENCH, [SERVICE TRENCH PUBLIC PROPERTY] (MINIMUM SEPARATION FROM)

					VER	TICA.	_					-	10RI	ZONT	AL				
		GM GS	Р	s	ES	SL	ME	L	U	GM GS	Р	s	ES	SL	ME	L	IJ	*MIN. COVER	FACILITY SPACE ALLOTMENT (MAX)
GM GS	GAS MAIN (DXXXIV)P) GAS SERVICE (DXXXIV)V	-	12*	12"	12"	12"	12°	12"	Œ	-	-	-	-	-	-	-	Θ	30* MIN 42* MAX	4-/2"14-1/2"
Р	UVOM PRIMARY ELECTRIC (P)(W)	10"	©	©	©	©	©	-	12"	-	©	©	©	©	©	12"	-	30"	5-1/2"x5-1/2"
s	OVO SECONDARY ELECTRIC®®		©	©	0	©	©	-	12"	-	©	0	0	0	0	12"	12"	30"	5-1/2"x5-1/2"
ES	ELECTRIC SERVICE (P)(W)	12"	©	0	©	0	©	-	12"	-	(©	0	0	©	12"	12"	30"	5-/2"x5-1/2"
SL	UVDUM SDG&E STREET LIGHT PW	12"	0	0	0	0	0	-	12"	-	0	0	0	0	0	12"	12"	30"	z-1/2"xz-1/2"
ME	HWDRP MULTIPLE ELECTRIC	12"	©	©	O	©	©	12*	12"	-	0	©	(0	©	-	-	30"	18" x 14" (4 DUCTS)
L	FOREIGN UTILITY (UXF)(M) STREET LIGHT (V)	12"	-	-	_	-	12"	-	12"	-	12*	12"	12"	12"	-	1" or less	12"	24"	2-1/2*x2-1/2*
U	FOREIGN UTILITY EUC (TELCO, CATV) UV	0	12*	12"	12"	12"	12°	12"	-	Θ	-	12*	12**	12"	-	12"	-	24"	9" x 24"
т	SDG&E CY TELECOMMUNICATIONS	12"	©	0	©	©	©	-	12"	-	©	©	©	©	0	12"	12"	30"	4-1/2"x4-1/2"

* ALL MINIMUM COVER DEPTHS MEASURED FROM FINAL GRADE. REDUCED DEPTHS IN NOTE (B) ARE LESSER DEPTHS THAN WHAT IS SHOWN UNDER "MINIMUM COVER".

NOT ALLOWED.

SERVICE TRENCH PRIVATE PROPERTY (MINIMUM SEPARATION FROM)

	VERTICAL						н	RIZC	INTAL					
			GS	ES	ME	U	L	GS	ES	ME	U	L	*MIN. COVER	FACILITY SPACE ALLOTMENT (MAX)
GS	GAS SERVICE (UV)(D)66000P	-	12*	12°	-	12"	-	12"	-	12"	12"	24" MIN 42" MAX	2-1/2" x 2-1/2"
ES	ELECTRIC SERVICE (V)00000P	12"	0	©	12*	12*	12"	©	©	12"	12"	24"	5-1/2" x 5-1/2"
ME	MULTIPLE ELECTRIC	WIP	12"	0	©	12*	12"	-	0	©	-	-	24"	WILL VARY DUE TO BOARD AMPACITY
U	FOREIGN UTILITY TELCO, CATY	OVPHJ	-	12"	6"	-	12"	12"	12"	_	-	12"	18"	9" × 9"
L	FOREIGN UTILITY STREET LIGHT	UVFM	12"	12"	12"	12"	-	12°	12"	-	12"	1" or less	18°	2-1/2" × 2-1/2"

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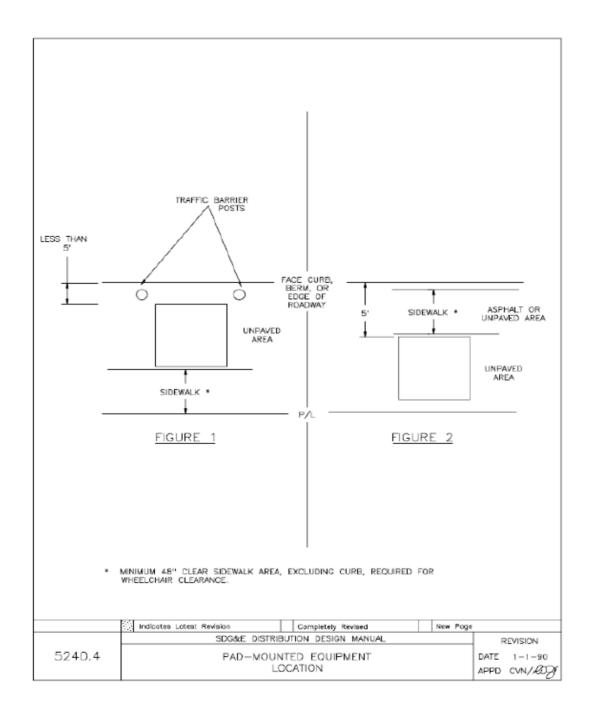
GAS STD. 7403.2	Indicates Latest Revision Completely Revised New Page Information R	emaved	SERVICE GUIDE
REVISION	SDG&E ELECTRIC STANDARDS		
DATE 1-1-96 APPD (10)	UNDERGROUND DISTRIBUTION (UD) TRENCHES AND UTILITY POSITIONING — S.D. COUNTY	33	70.2



Design Manual Page 5240.4

- Pad-mounted Equipment Location
- Minimum 48" clear sidewalk area excluding curb, required for wheelchair clearance
- Traffic Barrier Posts needed if clearance is less than 5 ft. from traffic





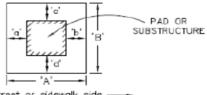


Underground Standards 3483.1 through 3483.4

- Clearance requirements from pad-mount and subsurface equipment from above ground objects
- Required clearance from single-phase primary equipment and 3312 and 3313 handholes
- Clearance requirements for hot stick operation



SCOPE: THIS STANDARD SHOWS THE MINIMUM RETAINING WALL AND OPERATING CLEARANCES REQUIRED FOR PADS AND SUBSURFACE STRUCTURES.



- street or sidewalk side ---

PAD USAG	PAD USAGE		DIMENSK	STRUCTURE ONS AND IMUM NG WIDTH		MUM CLEARA/ DIMENSIONS	NCE ®	Ð
			'A' '	'B'	'a'	'ь'	'c'	'd'
RTU PAD		3409	3'-10" (1168)	4' (1219)	18* (457)	18* (457)	18" (457)	8* (2438)
THREE—PHASE CABLE TERM CABINET 600A TO 200A	MNATING	341D	7'-3" (2210)	4'-9" (1461)	18* (457)	18* (457)	18" (457)	8* (2438)
THREE-PHASE CAPACITOR		3414	5'-4" (1626)	5'-0" (1524)	4'1 (1219)	8' (2438)	18" (457)	18" (457)
THREE—PHASE	PREFERRED	3415	5" (1524)	4'-9" (1461)	18" (457)	18* (457)	18" (457)	8* (2438)
SERVICE RESTORER	ALTERNATE	3413	5'-4" (1626)	5'-0" (1524)	4'* (1219)	8' (2438)	18" (457)	18" (457)
THREE—PHASE CABLE TERM CABINET (200 AMP)	MINATING	3416	6'-8" (2210)	2'-6" (762)	18" (457)	18* (457)	18" (457)	8* (2438)
THREE-PHASE CABLE TERM CABINET (600 AMP)	MNATING	3417	4' (1219)	3'-10" (1168)	8' (2438)	8' (2438)	18" (457)	18" (457)
THREE—PHASE PME 3 SWITCH (600 AMP)		341B	5'-10" (1788)	3'-8" (1118)	B' (2438)	8° (2438)	1B" (457)	4'-4' (1321)
3-WAY VISTA BOX PAD		3419	5'-4"	5'-1"	3'	8'	18"	18"
SINGLE-PHASE CABLE TER (FUTURE TRANSFORMER IN:		3421	3'-10" (1168)	4'-0" (1219)	18* (457)	18* (457)	18" (457)	8* (2438)
THREE—PHASE FUSE CABIN (VERTICAL & HORIZONTAL)		3421	4'-0' (1219)	3'-10' (1168)	18" (457)	18* (457)	18" (457)	8° (2438)
SINGLE-PHASE FUSED SECTIONALIZING CABINET		3421	4'-0" (1219)	3'-10* (1168)	8' (2438)	8' (2438)	18" (457)	18* (457)
SINGLE-PHASE CABLE TER	MINATOR	3421	3'-10" (1168)	4' (1219)	18" (457)	18~ (457)	18" (457)	8* (2438)
SINGLE-PHASE TRANSFORM (25-157 KVA)	ER	3421	3'-10" (1168)	4' (1219)	18* (457)	18* (457)	18" (457)	8* (2438)
THREE-PHASE PME 9 SWIT	TCH (600 AMP)	3423	6'-1" (1854)	6'-6" (1981)	B' (2+38)	8' (2438)	4'-4" (457)	4'-4' (1321)
THREE-PHASE PME 10 SW	ПСН (600 ДМР)	3423	6'-1" (1854)	6'-6" (1981)	8' (2438)	8' (2438)	4'-4" (457)	4'-4' (1321)
THREE-PHASE PME 11 SW	ПСН (600 АМР)	3423	6'-1" (1854)	6'-6" (1981)	8° (2+38)	8' (2438)	4'-4" (457)	4'-4' (1321)
THREE—PHASE AUTHMATIC SWITCH (600 AMP S & C)		3423	6'-1" (1854)	6'-6" (1981)	8' (2+38)	8' (2438)	18" (457)	6* (1829)

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SERVICE CUIDE	Indicates Letest Revision Completely Revised New Page Information R	emoved
	SDG&E ELECTRIC STANDARDS	REVISION
3483.1	CLEARANCE REQUIREMENTS FOR PAD-MOUNT AND SUBSURFACE EQUIPMENT FROM ABOVE GROUND OBJECTS	DATE 2-8-2011
	SUBSURFACE EQUIPMENT FROM ABOVE GROUND OBJECTS	APPD TR / MUC

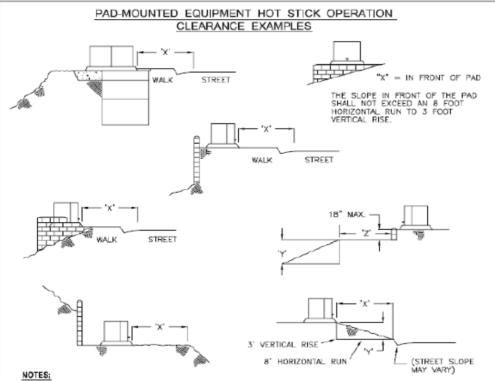


PAD USAGE	CONST STD.	PAD OR S' DIMENSIONS A OPERATIN	MUMINIM DN		JM CLEA IMENSION	RANCE IS	@ _©
		'A'	'B '	'a'	'b'	'c'	'd '
THREE-PHASE PRIMARY:	3425	6'-6" (1981)	4'-11" (1499)	18" (457)	18" (457)	5' (1524)	8' (2438
THREE-PHASE TRANSFORMER	3425	6'-6" (1981)	4'-11" (1499)	18" (457)	18" (457)	2' (610)	8' (2438)
THREE-PHASE TRANSFORMER	3426	6'-6" (1981)	6'-3" (1905)	18" (457)	18" (457)	2' (610)	8' (2438)
THREE-PHASE LIVEFRONT TRANSFORMER	3427	8'-2" (2489)	7'-8* (2337)	18" (457)	18" (457)	2' (610)	8' (2438
THREE-PHASE TRAYER SWITCH	3428	7'-0" (2134)	4'-8" (1422)	4'-4" (1321)	18" (457)	2' (610)	8' (2438
THREE-PHASE TRAYER SWITCH	3429	8'-8" (2642)	4'-8" (1422)	4'-4" (1321)	18" (457)	2' (610)	8 (2438
	CABL	E JUNCTION PED	ESTAL				
STRUCTURE USAGE	CONST STD.	PAD OR S' DIMENSIONS A OPERATIN	ND MINIMUM		M CLEAR MENSIONS		ð _o
		,V,	'B'	'o'	'ь'	'c'	'd*
PRIMARY	3523A	4'-10" (1473)	2'-6" (762)	18" *** (457)	18" *** (457)	18" *** (457)	8' (2438
SUBSTRUC	TURE CLEA	RANCES FROM A	BOVE GROUND	OBJECTS	<u> </u>		
	CONST	PAD OR ST	MUMINIM DA		M CLEAF MENSION		(A)
SUBSTRUCTURE USAGE	CONST. STD.	DIMENSIONS / OPERATIN	ND MINIMUM G WIDTH	DI	MENSION	s (E	3) (0)
SUBSTRUCTURE USAGE		DIMENSIONS /	MUMINIM DA				'd' 5'
	STD.	DIMENSIONS / OPERATIN 'A' 1'-10"	MD MINIMUM G WIDTH 'B' 2'-11"	'a'	'b'	s (E	'd' 5' (1524) 5'
SECONDARY	3312	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-8"	'B' 2'-11" (889) 3'-8"	18* (457)	"b" 18" (457) 18"	s (E 18" (457) 18"	3 0 'd' 5' (1524) 5' (1524) 5'
SECONDARY SECONDARY/PRIMARY	3312 3313	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-6" (813) 6'-8" (2032) 7'-6" (2286)	"B" 2'-11" (889) 3'-8" (1118) 3'-8" (1118) 5'-0" (1524)	18" (457) 18" (457) 5'	18* (457) 18* (457) 5'	s (E 18" (457) 18" (457) 18"	3) (D) 'd' 5' (1524) 5' (1524) 5' (1524)
SECONDARY SECONDARY/PRIMARY SECONDARY/PRIMARY	3312 3313 3314	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-6" (813) 6'-8" (2032) 7'-6"	'B' 2'-11" (889) 3'-6" (1118) 3'-8" (1118) 5'-0"	18* (457) 18* (457) 5' (1524) 5' (1524) 5' (1524)	MENSION 'b' 18* (457) 18* (457) 5' (1524) 5' (1524) 5' (1524)	s (E 18" (457) 18" (457) 18" (457) 5' ** (1524) 5' ** (1524)	3) (b) 'd' 5' (1524) 5' (1524) 5' (1524) 5' (1524) 5' (1524)
SECONDARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY PRIMARY SWITCH ENCLOSURE	3312 3313 3314 3315	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-6" (813) 6'-8" (2032) 7'-6" (2286) 9'-6" (2896) 10'-0" (3048)	'B' 2'-11" (889) 3'-8" (1118) 3'-8" (1118) 5'-0" (1524) 6'-0" (1829) B'-0" (2438)	18* (457) 18* (457) 18* (457) 5' (1524) 5' (1524)	MENSION 'b' 18* (457) 18* (457) 5' (1524) 5' (1524) 5'	s (E 18" (457) 18" (457) 18" (457) 5' ** (1524) 5' **	3) (D) 'd' 5' (1524) 5' (1524) 5' (1524) 5' (1524) 18" (457)
SECONDARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY	3312 3313 3314 3315 3316	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-6" (813) 6'-8" (2032) 7'-6" (2286) 9'-6" (2896)	'B' 2'-11" (889) 3'-8" (1118) 3'-8" (1118) 5'-0" (1524) 6'-0" (1829) 8'-0"	18* (457) 18* (457) 5' (1524) 5' (1524) 5' (1524)	MENSION 'b' 18* (457) 18* (457) 5' (1524) 5' (1524) 5' (1524)	S (E 18" (457) 18" (457) 18" (457) 5' ** (1524) 5' ** (1524)	3) (D) 'd' 5' (1524) 5' (1524) 5' (1524) 5' (1524) 18"
SECONDARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY SECONDARY/PRIMARY PRIMARY SWITCH ENCLOSURE NECK SECTION, SECONDARY/	3312 3313 3314 3315 3316 3317 3332	DIMENSIONS / OPERATIN 'A' 1'-10" (559) 2'-6" (813) 6'-8" (2032) 7'-6" (2286) 9'-6" (2896) 10'-0" (3048) 10'-0" (1930)	"B" (889) 3'-8" (1118) 3'-8" (1118) 5'-0" (1524) 6'-0" (1829) 8'-0" (2438) 8'-0" (1676)	18" (457) 18" (457) 5" (1524) 5" (1524) 5" (1524) 5" (1524) 5" (1524)	MENSION 'b' 18* (457) 18* (457) 5' (1524) 5' (1524) 5' (1524) 5' (1524) (1524)	s (E 'c' 18" (457) 18" (457) 5' ** (1524) 5' ** (1524) 18" (457)	3) (D) 'd' (1524) 5' (1524) 5' (1524) 5' (1524) 5' (1524) 5' (1524) 18" (457) (1524)

SUBSURFACE EQUIPMENT FROM ABOVE GROUND OBJECTS

APPD NF/ N





- 'X' = 8 FOOT MIN. FOR HOT STICK OPERATION.
- 'Y' = SLOPE OF GRADE IN FRONT OF THE PAD NOT TO EXCEED 8 FOOT HORIZONTAL RUN TO 3 FOOT VERTICAL RISE.
- 'Z' 6 FOOT MIN, FLAT GRADE FOR HOT STICK OPERATION.
- AN EFFORT SHOULD BE MADE TO KEEP THE 'X' MEASUREMENT TO A FLAT GRADE. IF THIS IS NOT POSSIBLE, THE 'X' MEASUREMENT SHALL NOT EXCEED AN 8 FOOT HORIZONTAL RUN TO 3 FOOT VERTICAL RISE.
- AN 8 FOOT CLEARANCE IS REQUIRED IN FRONT OF THE PAD-MOUNT EQUIPMENT FOR HOT STICK OPERATION. SDC&E HANDHOLES AND MANHOLES MAY OCCUPY OR BE INSTALLED WITHIN THE 8 FOOT CLEARANCE. PROVIDE A 5 FOOT CLEARANCE FROM PADS TO 3314 AND LARGER SUBSTRUCTURES.

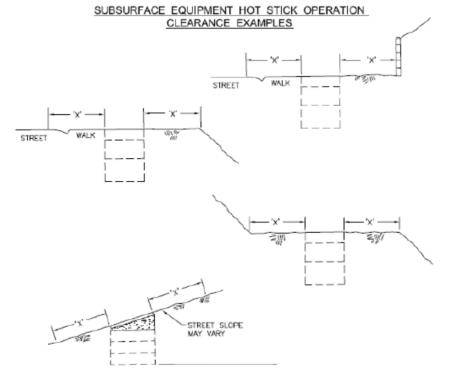
REFERENCE:

- A. SEE STANDARD 3486 FOR RETAINING WALL REQUIREMENTS AND CLEARANCES FROM REVERSE SUBGRADE RETAINING WALLS.
- B. SEE STANDARD 3484 FOR INSTALLATION OF PAD MOUNTED EQUIPMENT.

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SERVICE GUIDE	Indicates Latest Revision	Completely Revised	New Page	Information R	emoved
REVISION	SDC	S&E ELECTRIC STAND	ARDS		
DATE 1-1-93	MINIMUM OPERA	TING CLEARANCE	REQUIREME	NTS	3483.3
APPD JLBJBOS		D-MOUNTED EQL			





NOTES:

- 'X' = 5 FOOT MIN, WHEN HOT STICK OPERATION IS REQUIRED, OTHERWISE BASIC CLEARANCES APPLY ACCORDING TO THE "MINIMUM OPERATING CLEARANCE REQUIRE— MENTS" ON PAGES 3483.1, .2, .3, AND .5.
- IF THE SUBSTRUCTURE IS NOT TO BE LOCATED IN THE STREET, AN EFFORT SHOULD BE MADE TO KEEP THE 'X' MEASUREMENT TO A FLAT CRADE. IF THIS IS NOT POSSIBLE, THE 'X' MEASUREMENT SHALL NOT EXCEED AN 8 FOOT HORIZONTAL RUN TO 3 FOOT VERTICAL RISE.
- A 5 FOOT CLEARANCE IS REQUIRED IN FRONT OF THE SUBSTRUCTURE FOR HOT STICK OPERATION. SDO&E HANDHOLES AND MANHOLES MAY OCCUPY OR BE INSTALLED WITHIN THE 8 FOOT CLEARANCE REQUIRED IN FRONT OF SDO&E "PAD—MOUNTED" SOUIPMENT. PROVIDE A 5 FOOT CLEARANCE FROM PAD TO 3314 AND LARGER SUBSTRUCTURES.

REFERENCE

A. SEE STANDARD 3485 FOR INSTALLATIONS OF SUBSTRUCTURES ON SLOPING GRADES.

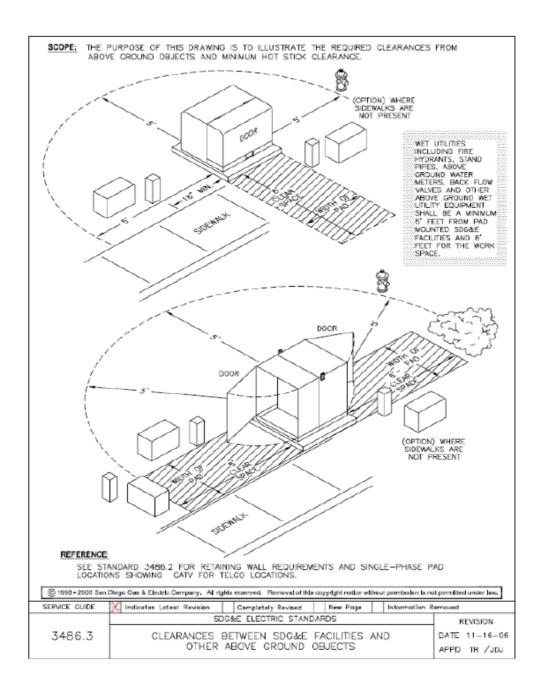
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SERVICE GUIDE	Indicates Letest Revision	Completely Revised	New Poge	Information R	emaved
	SC		REVISION		
3483.4	MINIMUM OPER	ATING CLEARANCE	REQUIREMEN	ITS	DATE 1-1-93

FOR SUBSURFACE EQUIPMENT

Underground Standard 3486.3 Clearances Between SDG&E Facilities

- Clearances between SDG&E facilities and above ground objects
- When sidewalks are present and not present
- Minimum hot stick clearance







Page 692.8 Service & Metering Equipment Post/Pedestal

- Service Cable Pull & Terminating Section
- Minimum and Maximum Height of Meter
- Grounding Leg
- Minimum Depth of Post



SCOPE: THIS STANDARD APPLIES TO SINGLE-FAMILY OR MOBILE HOME RESIDENTIAL SERVICES RATED 100 AMPERES MINIMUM, 225 AMPERES MAXIMUM, SINGLE-PHASE 120/240-VOLTS. (THIS STANDARD IS NOT APPLICABLE FOR COMMERCIAL SERVICE. REFER TO PAGE 692 THRU 592.2 FOR COMMERCIAL METER PEDESTAL SERVICE STANDARDS).

TYPICAL UNDERGROUND SERVICE AND METER POST/PEDESTAL

NOTES:

- THE SERVICE AND METERING EQUIPMENT SHALL BE TESTED, LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY. THIS SERVICE AND METERING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SDC&E's STANDARDS. AN ELECTRICAL INSPECTION CLEARANCE FROM THE AUTHORITY HAVING JURISDICTION MUST BE GIVEN TO SDC&E BEFORE SERVICE CAN BE ESTABLISHED AND A METER SET.
- 2. THE METER SOCKET SHALL BE PROVIDED WITH A SEALING RING. METER SOCKET SHALL BE MOUNTED ON A SUPPORT AND ATTACHED TO THE METER PANEL. THE SOCKET SHALL BE FACTORY—WIRED WITH THE CONDUCTORS IN A SEPARATE OR BARRIERED RACEWAY FROM THE SERVICE TERMINATING LUGS TO THE METER SOCKET. THESE CONDUCTORS SHALL BE INACCESSIBLE FROM THE MAIN DISCONNECT AND POWER COUTLET SECTION. THE CONDUCTORS WHICH EXTEND TO THE METER SOCKET SHALL BE CONNECTED AT THE SERVICE TERMINATING LUGS INDEPENDENTLY OF THE CONNECTION FOR THE SERVICE LATERAL CONDUCTORS. THE MINIMUM METER HEIGHT IS 36" ABOVE GRADE LINE WHEN THE METER IS ENCLOSED, OR 48" MINIMUM IF EXPOSED. METER PANELS SHALL BE REMOVABLE, BUT SHALL BE NON—REMOVABLE WHEN METER IS IN PLACE. IF THE METER IS ENCLOSED, THE ENCLOSING COVER SHALL BE HINCED AND SELF—SUPPORTING, EQUIPPED WITH A READING WINDOW, AND BE REMOVABLE FOR METER ISSTING OR INSPECTION.
- THE SERVICE MAIN DISCONNECT AND POWER QULET SECTION SHALL HAVE BARRIERS INSTALLED TO PREVENT ACCESS TO THE SERVICE CABLE PULL AND THE SOCKET.
- 4. THE SERVICE CABLE PULL AND TERMINATING SECTION SHALL BE COVERED WITH A SEALABLE AND REMOVABLE PANEL OR PANELS, EXTENDING FROM 2" TO 6" ABOVE CRADE, AND WHEN REMOVED, CIVE FULL ACCESS TO THE SERVICE TERMINATING LUGS. ACCESS TO THE SERVICE TERMINATING LUGS MAY BE FROM EITHER THE FRONT OR THE REAR OF THE POST. ACCESS SHALL BE UNRESTRICTED BY LOAD CONDUITS OR REGREWAYS.
- 5. A MINIMUM 12" OPENING SHALL BE MAINTAINED FROM THE TERMINATING LUCS TO ANY FOR 200A FIXED PANEL BELOW THE LUGS. THE MINIMUM LUG HEIGHT IS 17" ABOVE GRADE LINE, THE MAXIMUM IS 48". THE SERVICE TERMINATING LUGS SHALL BE #2 TO 250 KCMIL ALLIMINUM BODIED PRESSURE TYPE FOR CONNECTION OF THE SERVICE LATERAL CONDUCTORS. A SINGLE TERMINATING LUC PER PHASE & NEUTRAL IS PREFERED. IF TWO TERMINATING LUCS ARE PROVIDED PER PHASE, SOGGE REQUIRES ONE OF THE LUG'S SET SCREW TO BE REMOVED AND THE HOLE TO BE FILLED WITH A COMPOUND ACCEPTABLE TO THE MANUFACTURER. THIS REQUIREMENT IS NECESSARY TO AVOID ENERGY DIVERSION. THE SPACE BETWEEN TERMINATING LUGS, FROM LUGS TO SIDES OF POST, OR FROM LUGS TO PANEL ABOVE, SHALL BE 1-1/2" MINIMUM. RIGID INSULATING BARRERS ARE REQUIRED AND SHALL PROVECT 1/4" MINIMUM BEYOND ANY ENERGIZED PARTS WHEN THIS SPACE IS REDUCED. TERMINATING LUGS MAY BE POSITIONED EITHER IN-LINE OR STAGGERED, AND ACCESS SHALL BE UNOBSTRUCTED WHEN ALL SERVICE CONDUCTORS ARE IN PLACE. THE NEUTRAL TERMINATING LUG SHALL BE BONDED TO THE POST/PEDESTAL.
- AN ACCESSIBLE GROUNDING LEG SHALL BE PROVIDED FOR A MINIMUM #1/0 AWG GROUNDING CONDUCTOR.
- THE POST SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 4" X 8" ID. A FIXED
 PANEL SHALL EXTEND 2" MINIMUM AND 6" MAXIMUM ABOVE GRADE AND 18" MINIMUM BELOW GRADE.
- THE MINIMUM DEPTH OF THE POST IN THE GROUND SHALL BE 24" WITH OPENINGS AT THE BASE TO PERMIT THE SERVICE LATERAL CONDUIT TO ENTER INTO THE POST WITHOUT CUTTING THE 24" RADIUS BEND.
- A MOISTURE BARRIER, LOCATED BELOW ALL TERMINALS AND OTHER LIVE FARTS, OR ADEQUATE VENTLATION SHALL BE PROVIDED TO INHIBIT THE CONDENSATION OF MOISTURE.
- 10. FOR AUTHORIZATION TO ATTACH TELEPHONE AND CABLE TV TERMINATING FACILITIES, CONSULT THE UTILITY.

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CONDUIT REQUIRED



SDG&E Service Guide Page 605 General Dimensions – Residential Single Meter Installation

- Heights
- Clearances
- Working Space Requirements

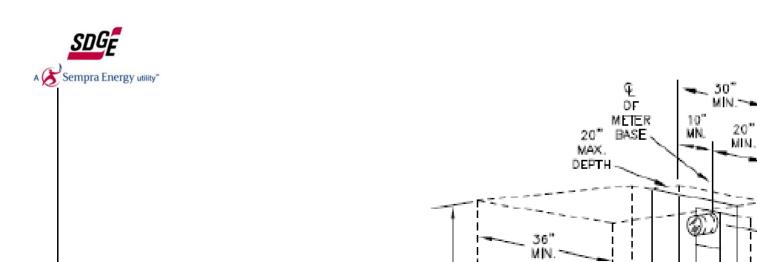


FIGURE 3

RECESS SINGLE METER. "RESIDENTIAL APPLICATION ONLY" SEE PAGE 606 FOR ADDITIONAL REQUIREMENTS

NOTE 2: THE 10" & 20" DIMENSIONS MAY VARY DEPENDING ON SITE CONDITIONS AND EQUIPMENT CONFIGURATION, BUT IN NO CASE SHALL THE LEFT OF RIGHT. SIDE CLEARANCE FROM CENTERLINE OF METER TO AN OBSTRUCTION BE LESS. THAN 10", AND THE OVERALL WIDTH OF WORKING SPACE WITHIN THE RECESS

MUST BE 30" MINIMUM. ONCE

OUTSIDE OF THE RECESS THE WIDTH. OF WORKING SPACE MUST BE 36" MINIMUM.

WORKING: SPACE 6'-6''HEIGHT MIN. 6'-3" MAX. TO 3"-0" MIN. з п. 5 ГТ. МIN.

SEE NOTE 2

ANY DESTRUCTION

ABOVE METER

MIN.

CLEAR & LEVEL

WORKING SPACE

20"

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MIN

5'-6" MIN.

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DATE 2-16-2011 APPD BRB/MJC	ELECTRIC SERVICE AND METERING EQUIPMENT 0 - 300 VOLTS 605	



Rule 2 Sheet 1 B.2.a: Customer Voltages – Minimum for 120 & 240

Customer Service Voltages

a. Under all normal load conditions, distribution circuits will be operated so as to maintain secondary service voltage levels to customers within the voltage ranges specified below:

Nominal Two-Wire And Multi-Wire Service Voltage	Minimum Voltage To All Services	Maximum Service Voltage On Residential And Commercial Distribution Circuits	Maximum Service Voltage On Agricultural And Industrial Distribution Circuits
120	114	120	126
208	197	208	218
240	228	240	252



General Order 95

- Table 2 Basic minimum allowable clearance of wires from other wires at crossings, in midspans and at supports
- Table 2A Minimum clearances of wires from signs mounted on buildings and isolated structures
- Table 4 Minimum safety factors



Table 2: Basic Minimum Allowable Clearance of Wires from Other Wires at Crossings, in Midspans and at Supports (Letter References Denote Modifications of Minimum Clearances as Referred to in Notes Following This Table) All Clearances are in Inches

_	Other Wire, Cable or Conductor Concerned											
						other wife, Co			ncluding Supply	Cablee)		
		Α	В	С	D	E	F	G	H H	I		K (kk)
	Nature of Clearance and Class	Span Wires.	Trolley	Communication	0-750	750 -	7,500 -	20.000 -	35,000 -	75,000 -	150,000 -	300,000 -
Case	and Voltage of	Guys and	Contact	Conductors	Volts	7.500 Volts	20,000 Volts		75,000 Volts	150,000	300,000	550,000
No.	Wire, Cable or Conductor	Messengers	Conductors	(Induding Open	(Including	7,000 1085	Edyson Tolls	35,000 1085	r spaces restor	Volta	Volts	Volts
	Concerned	1 issue ige. a	0 = 750	Wire, Cables	Service					10110	10100	1310
			Volts	and Service	Drops) and							-
				Drops')	Trolley				1			
					Feeders (a)							
	Clearance between wires,											
	cables and conductors not											
	supported on the same											
	poles, vertically at											
	crossings in spans and											
	radially where colinear or approaching crossings											
1	Span wires, guys and	18 (c)	48 (d, e)	24 (e)	24 (e)	36 (f)	36	72	72	78	78 (pg)	138 (Mh)
	messengers (b)		10 (0) 0)								12.00	
2	Trolley contact conductors, 0 = 750 yolts	48 (d, e)		48 (4)	48 (d, h)	48	72	95	96	96	96 (gg)	156 (hh)
3	Communication conductors	24 (e)	48 (d)	24	48 (1)	48 (dd)	72	96	96	96	96 (99)	156 (hh)
4	Supply conductors, service drops and trolley feeders, 0 -	24 (e)	48 (d, h)	48 (1)	24	48	48	96 (00)	96	96	96(gg)	156 (hh)
-	750 volts (qq) Supply conductors, 750 -	36 (f)	48	48 (dd)	48	48 (h)	72	96 (00)	96	96	96(gg)	156 (Nh)
5	7,500 volts (qq)											
5	Supply conductors, 7,500 - 20,000 volts (ac)	35	72	72	48	72	72	96 (00)	96	96	96 (99)	156 (hh)
7	Supply conductors, more than 20,000 volts (qq)	72 (g)	96 (9)	96 (9)	96 (g, oc)	96 (g, oc)	. 96 (g, oo)	96 (g. oo)	96 (9)	96	96 (99)	156 (hh)
	Vertical separation											
	between conductors											
	and/or cables, on separate											
	crossarms or other											
	supports at different levels (excepting on related line							4				
	and buck arms) on the											
	same pole and in adjoining											
	midspans											
8	Communication Conductors			12 (j, rr)	48 (k, l, m,	48 (k)	72 (m n)	72 (m)	72	78	87 (gg)	147 (hh)
	and Service Drops				n _v pp)							
9	Supply Conductors Service			48 (k, l, m. n,	24 (h. k.	48 (k, m, p)	48 (k, m, a)	72 (m, nn)	72	78	87 (gg)	147 (hh)
	Drops and Trolley Feeders, 0 - 750 Volts			pp)	m, o)				,			



Tabl	e 2 (Continued)											
			Other Wire, Cable or Conductor Concerned									
							Supply	Conductors (I	ociudina Sucoly	(Cables)		
Case No.	Nature of Clearance and Class and Voltage of Wire, Cable or Conductor Concerned	A Span Wres, Guys and Messengers	B Trolley Contact Conductors 0 – 750 Volts	C Communication Conductors (Including Open Wire, Cables and Service Drope)	D 0 - 750 Volts (Including Service Drops) and Trolley Feeders (a)	E 750 - 7,500 Volts	F 7,500 - 20,000 Volts	20,000 - 35,000 Volts	H 35,000 - 75,000 Volks	75,000 - 150,000 Volts	300,000 - 300,000 Volts	K (kk) 300,000 550,000 Volts
19	Guys and span wires passing conductors supported on the same poles	(Œ)	-	3 (bb)	3	6	9	12	18	24	48 (I)	86 ([])
	Vertical and horizontal insulators clearances between conductors											
20	Vertical dearance between conductors of the same circuit on horizontal insulators				-	24	24	24	36 or 48 (I, mm)	48 (mm)	48 (mm)	48 (mm)
	Vertical clearance above supply and/or communication lines											
21	Antennas and associated elements on the same support structure. (tt, uu)	24 (vv)	48 (vv)	24(ww)	48(w, xx)	72	72	72	120 (vv, yy)	-		-



Table 2-A Minimum Clearances of Wires from Signs Mounted on Buildings and Isolated Structures (a) (Letter References Denote Modifications of Minimum Clearances as Referred to in Notes Following this Table)

	Modifications of Minimum Clearances as Referred to in Notes Pollowing this Lable)								
Case	Nature of Clearance	A	В	С	D	E			
No.	Type of Sign	Span Wires	Communication Open Wire	Supply Conductors,	Supply Conductors	Supply Conductors			
	, ,	(Other than Trolley	Conductors	Supply Cables	and	and			
		Span Wires) Overhead	Supply Cables Treated as	of 0 - 750 Volts	Supply Cables,	Supply Cables,			
		Guys and Messengers,	in Rule 57.8 and Supply	and	750 - 300,000 Volts	300 - 550 kV			
		Communication Cables	Service Drops	Trolley Span Wires	(b)				
		and Communication	0 - 750 Volts						
		Service Drops							
1	Vertical dearance above all signs upon which men can	8 Feet	8 Feet	8 Feet	12 Feet	20 Feet (g)			
	wak								
2	Vertical dearance above all signs upon which men cannot	2 Feet	2 Feet	3 Feet	8 Feet	20 Feet (g)			
	wak					1			
3	Vertical clearance under signs which are illuminated	2 Feet (c)	2 Feet (e)	3 Feet	Prohibited (f)	Prohibited			
4	Vertical dearance under signs which are non-illuminated	6"(d)	L Foot	3 Feet	Prohibited (f)	Prohibited			
- 5	Horizontal clearance from signs which are Illuminated	3 Feet (c)	3 Feet (e)	3 Feet	6 Feet	(5 Feet (h)			
6	Horizontal clearance from signs which are non-illuminated	6"(d)	1 Foot	3 Feet	6 Feet	L5 Feet (h)			



Table 4: Minimum Safety Factors					
Element of Line	Grades of Construction				
	Grade "A"	Grade "B"	Grade "C"	Grade *F"	
Conductors, splices and conductor fastenings (other than tie wires)	2	2	2	1	
Pins	2	2	2	1	
Pole line hardware	. 2	2 2	2	2	
Line Insulators (mechanical)	3	2	2	2	
Guy insulators (mechanical)				I	
Interlocking	2	2	2	2	
Noninterlocking wood	2 3 3	2	2	-	
Noninterlocking glass fiber	3	2 (a)	2 (b)	-	
Guys, except in light loading rural districts	2	2	2	1.25	
Guys in light loading rural districts	2	1.5	1.5	1.25	
Messengers and span wires	2	2	2	2	
Foundations against uplift	1.5	1.5	1.5	_ [
Foundations against depression	3	2	2	_	
Poles Towers and Structures	~				
Wood poles	4	3	2	1	
Metallic service and meter	"		_	_ [
poles	-	2	2	-	
Structural or tubular metallic					
poles, towers, structures, crossarms and metallic	1.5 (c)	1.25 (c)	1.25 (c)	-	
members of foundations					
Reinforced concrete poles	4	3	3	- ,	
Prestressed concrete poles, structures and crossarms	1.8	1.5	1.5	-	
Other structural materials	1.5	1.25	1.25	-'.	
Crossarms	,				
Wood	2	2	2	1	
Steel	1.5	1.25	1.25	-	
Concrete	1.8	1.5	1.5	-	
Other structural material	1.5	1.25	1.25		



GO 95 - Vegetation Management

35 Vegetation Management

Where overhead conductors traverse trees and vegetation, safety and reliability of service demand that certain vegetation management activities be performed in order to establish necessary and reasonable clearances. The minimum clearances established in Table 1, Cases 13 and 14, measured between line conductors and vegetation under normal conditions, shall be maintained. (Also see Appendix E for tree trimming guidelines).



GO 128 – Rules for Construction of Underground Supply & Communication Systems

Purpose of Rules

- Uniform requirements for underground electrical supply & communication systems
- Ensure adequate service and secure safety to all persons engaged in the construction, maintenance, operation or use of the systems and to the public in general



Applicability of GO 128 Rules

- Apply to all underground electrical supply systems used in connection with public utility service
- Meet requirements of any statutes, regulations or local ordinances applicable to such enclosures in buildings



GO 128 Limiting Conditions Specified

- The requirements specified in these rules as to spacing, clearance, and strength of construction are limiting conditions expressed as minimum or maximum values as indicated
- In cases where two or more requirements establish limiting conditions the most stringent condition shall be met



GO 128 - Location

Facilities shall be located with consideration for safety of property, the general public and persons engaged in the construction, operation and maintenance thereof.



GO 128 - Tables 1 & 2

- Clearance & Depth Requirements
- Miscellaneous Dimensions & Clearance Requirements



Table 1 Clearance and Donth Requirements for Comply and Communication Systems

	Table 1 Clearance and Depth Requirements for Supply and Communication Systems							
Case	Nature of Clearance or Depth	Requirements ²	Reference Rules					
Number								
1	Clearances	3" concrete, 4" brick, or 12" earth	33.4A(1) (a),					
	Cables when independently installed ¹		33.4A(2) (a), 43.3A					
2	Cables when concurrently installed 1	No separation required when parties mutually	33.4A(1) (b),					
	-	agree	33.4A(2) (b), 43.3B					
		For random separation, see Rule 43.3B(1)						
3	Cables and Ducts From Foreign Structures	12" when paralleling and 6" when crossing	31.4A(1),					
	(Except Supply or Communication Systems) when		33.4A(3)(a)					
	independently installed		41.4A(1), 43.3A					
4	Cables and Ducts From Foreign Substructures	No separation required when parties mutually	31.4A(2), 33.4A(3)					
	(Except Supply or Communication Systems) when	agree	(b), 41.4A(2),					
	concurrently installed	For random separation, see Rule 43.3B	43.3B					
5.	Separation of Communication and Supply duct	3" concrete, 4" brick or 12" earth	31.4B(1), 41.4B(1)					
	systems independently installed							
6	Separation of Communication and Supply duct	No separation required when parties mutually	31.4B(2), 41.4B(2)					
	systems concurrently installed	agree and both systems are in rigid ducts						
7	Depth	30" below street railroads,	31.4C(1), 33.4B,					
	Depth of Cables and Ducts Under Railroads	42" below other railroad	41.4C(1), 43.3					
8	Depths of Supply Cables and Ducts	0 - 750 Volts: 24" below Thoroughfares,	31.4C, 33.4C,					
		18" elsewhere (Sidewalks, Parkways and Private	33.4D					
		Property) 751 - 35,000 Volts: 24"						
		Above 35,000 Volts: 36"						
9	Depths of Communication Cables and Ducts	18" below Thoroughfares, 12" elsewhere	41.4C, 43.3					
		(Sidewalks, Parkways and Private Property)						

For definitions of independently and concurrently installed, see Rules 20.5 and 21.8.

Clearances and depths shown may be reduced under certain conditions - see referenced rules. For measurement of clearance, see Rule 17.9. 2



Table 2 Miscellaneous Dimensions and Clearance Requirements for Supply and Communication Systems

Case Number	Nature of Clearance or Depth	Requirements ¹	Reference Rules
1	From railroad tracks, of risers and other above- ground terminations	General Order 26-D and 118	31.5D, 33.5D, 41.5C, 43.4
2	Size and shape of manholes	Minimum inside dimension shall be 4 feet by 5 feet high. See Public Utilities Code, Section 8051 for specific requirements	32.4, 42.4
3	Manhole openings	Not less than 26" in diameter or 26" x 24" rectangular	32.5, 42.5
4	Manhole location	Manhole openings shall not be less than 3 feet from any railroad rail	32.8, 42.8
5	Sectionalizing Switches		34.2B
6	Oil filled equipment	From building surface: 3 feet From non-combustible building surface: 2 feet	34.3D

Dimensions and clearances shown may be reduced under certain conditions - see referenced rules.



SDG&E MHP Transfers Current Process – Based on PU Code 2791-2799

- MHP Representative submits written notification to SDG&E
- SDG&E Reviews MHP Qualifications
- MHP pays engineering fee. Submits records
- SDG&E inspects facility and determines qualification for transfer

MOBILE HOME PARK SYSTEMS



ATTACHMENT A MOBILE HOME PARK – MANUFACTURED HOUSING COMMUNITY Statement of Transfer Eligibility						
To: San Diego Gas & Electric Company						
From: Date:						
Re: Request to Transfer Distribution System Responsibilities To SDG&E From						
(name of mobile home park or manufactured housing community)						
California Public Utilities Code 2791, et. seq., provides that responsibility for existing gas and/or electric distribution systems within a <i>bone fide</i> mobile home park or manufactured housing community (MHP/MHC) may be transferred to SDG&E. To allow a preliminary determination on the eligibility of the system within my MHP/MHC for transfer under 2791, I offer the following information to SDG&E as being true to the best of my knowledge.						
Yes No						
 a) The MHP/MHC is owned by a single entity, such as a sole proprietor or a partnership or corporation. 						
b) Each month, or other regular interval, the residents pay rental or lease fees to the single entity referred to in "a)" above.						
c) The MHP/MHC has been subdivided so that it is possible for individuals to purchase the lots upon which their units sit, or other condominium-like arrangements.						
d) Each year, the entity referred to in "a)" above files a or the state of California's Department.						
e) Required – Attached is a current Assessor's map and my MHP/MHC is on parcel(s)						
Additional information:						
I understand a preliminary assessment of eligibility will be made based on the information I have provided. Further, I understand eligibility may change, depending on subsequent information.						
Signed: Title:						
Telephone number: ()						
Mailing address:						

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SERVICE PLANNING MANUAL SAN DIEGO GAS & ELECTRIC						250		
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ATTACHMENT B

DISTRIBUTION SYSTEMS TRANSFER CHECK LIST

ELECTRIC CONSTRUCTION / INSTALLATION DOCUMENTATION

DOCUMENT	MANDATORY
Electric Distribution design drawings & load calculations	
Electric Distribution As-Built drawings	YES
Certified Lab report of contents of all oil filled electrical equipment	YES
Electric Distribution operating procedures	
Electric Distribution system material lists and specifications (conduit type and	
diameter, cable type and voltage rating)	
Foreign Utility As-Built drawings (sewer, water, CATV, Telco)	YES
Inspection Maintenance Records	YES
Electric Distribution Back-up System Records (if applicable)	

GAS CONSTRUCTION / INSTALLATION DOCUMENTATION

DOCUMENT	MANDATORY
Gas system piping design drawings	
Gas system piping As-Built drawings	YES
Emergency Shutoff Valve location drawings	YES
Gas system load design calculations	
Auxiliary system drawings (instrumentation, cathodic protection, recording systems)	
Gas system material lists and specifications (piping system materials, age,	YES
diameter, lengths, MAOP, etc.)	
Construction Specifications (pipe installation and joining procedures, trench design,	YES
backfill material, compaction, etc.)	
Gas system installation pressure tests and inspection records	YES
Local Governmental Permit Documentation	YES
Construction contractors and consultants utilized	

OPERATION AND MAINTENANCE DOCUMENTATION

DOCUMENT	MANDATORY
Pipe damage and leak repair maintenance records	YES
Pipeline system operating history (charts, records)	
Periodic leak survey records	YES
Valve Maintenance records	YES
Cathodic Protection (CP) survey records	YES
Cathodic Protection (CP) maintenance records	
O&M Contractors and consultants utilized	
Emergency Response and park resident safety information	
Customer metering maintenance and repairs	

REQUIRED DOT 49 CFR 192 CODE COMPLIANCE DOCUMENTATION

DOCUMENT	MANDATORY
Reportable Incident Reports	YES
Operating and Maintenance (O&M) Plan	
DOT required periodic inspection and survey records	YES
CPCU/DOT oversight records (records of inspections or audits, recommendations	YES
and actions taken)	

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SDG&E MHP Transfers – Current Process – Based on PU Code 2791-2799 (continued)

- If system doesn't qualify, SDG&E will provide a bid to replace facilities
- MHP pays engineering fee for bid
- SDG&E develops design and cost quote
- Customer pays and construction is started
- Tenants submit applications for service



SDG&E MHP Transfers – Current Process – Based on PU Code 2791-2799 (continued)

- MHP is responsible for costs of excavation, installation of substructures, conduit, gas pipe, meter panels and surface repair
- SDG&E is responsible for costs of electric utility equipment, including cable and transformers



Website for SDG&E Standards and Service Guide

http://www.sdge.com/builderservices/servicestandards/index.shtml