

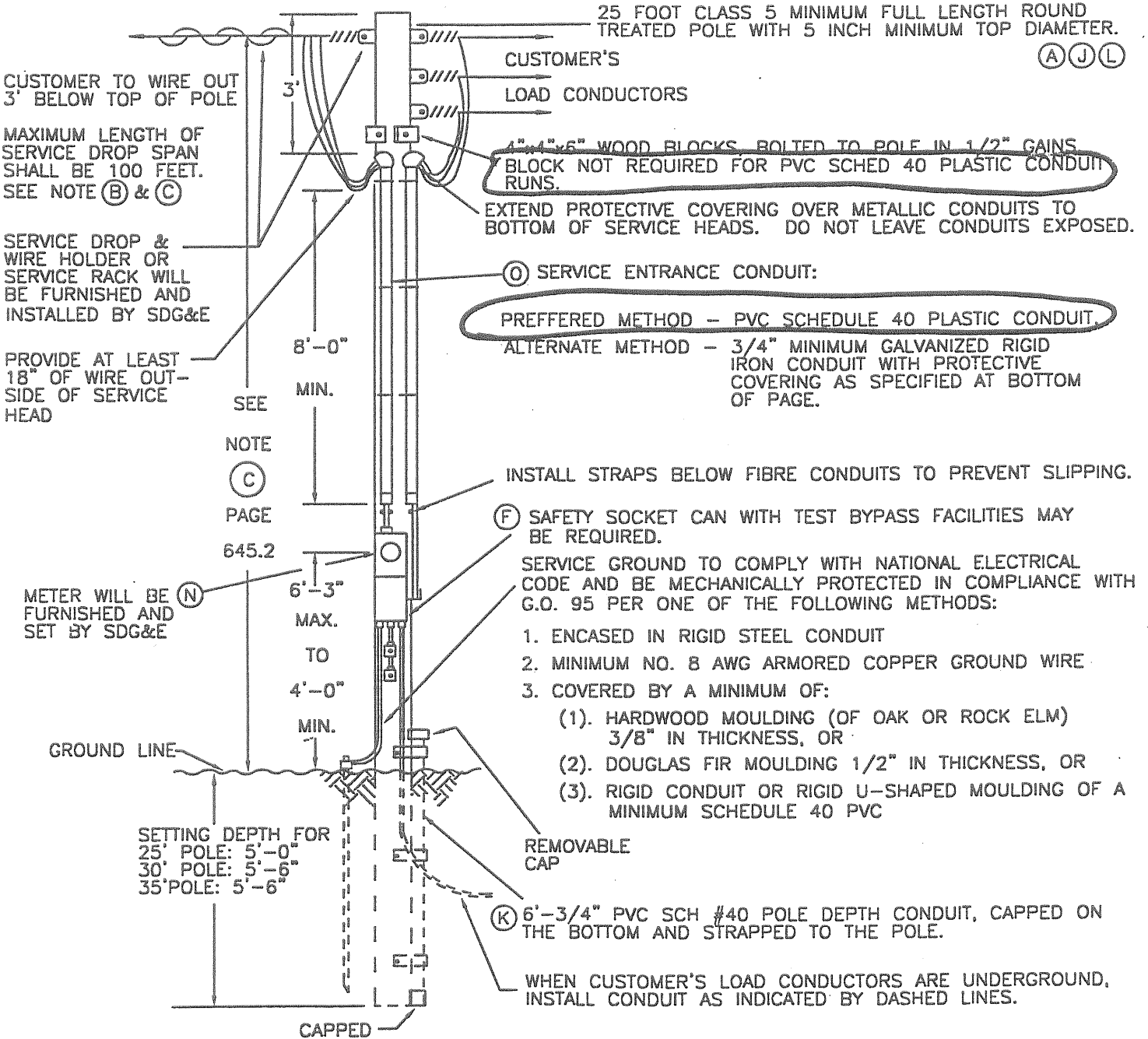
SERVICE GUIDE

1998/99

CUSTOMER-OWNED SERVICE AND METER
POLES PERMANENT/CLIMBABLE
0-600 VOLTS

OH645.
1-1-98

SCOPE: THIS STANDARD SHOWS AND DESCRIBES THE INSTALLATION OF A PERMANENT/CLIMBABLE, CUSTOMER OWNED, SERVICE AND METER POLE.



25 FOOT CLASS 5 MINIMUM FULL LENGTH ROUND TREATED POLE WITH 5 INCH MINIMUM TOP DIAMETER.

CUSTOMER'S LOAD CONDUCTORS

(A)(J)(L)

CUSTOMER TO WIRE OUT 3' BELOW TOP OF POLE

MAXIMUM LENGTH OF SERVICE DROP SPAN SHALL BE 100 FEET. SEE NOTE (B) & (C)

SERVICE DROP & WIRE HOLDER OR SERVICE RACK WILL BE FURNISHED AND INSTALLED BY SDG&E

PROVIDE AT LEAST 18" OF WIRE OUTSIDE OF SERVICE HEAD

SEE NOTE (C) PAGE 645.2

METER WILL BE FURNISHED AND SET BY SDG&E

4"x4"x6" WOOD BLOCKS, BOLTED TO POLE IN 1/2" GAINS. BLOCK NOT REQUIRED FOR PVC SCHED 40 PLASTIC CONDUIT RUNS.

EXTEND PROTECTIVE COVERING OVER METALLIC CONDUITS TO BOTTOM OF SERVICE HEADS. DO NOT LEAVE CONDUITS EXPOSED.

(O) SERVICE ENTRANCE CONDUIT:

PREFERRED METHOD - PVC SCHEDULE 40 PLASTIC CONDUIT
ALTERNATE METHOD - 3/4" MINIMUM GALVANIZED RIGID IRON CONDUIT WITH PROTECTIVE COVERING AS SPECIFIED AT BOTTOM OF PAGE.

INSTALL STRAPS BELOW FIBRE CONDUITS TO PREVENT SLIPPING.

(F) SAFETY SOCKET CAN WITH TEST BYPASS FACILITIES MAY BE REQUIRED.

SERVICE GROUND TO COMPLY WITH NATIONAL ELECTRICAL CODE AND BE MECHANICALLY PROTECTED IN COMPLIANCE WITH G.O. 95 PER ONE OF THE FOLLOWING METHODS:

1. ENCASED IN RIGID STEEL CONDUIT
2. MINIMUM NO. 8 AWG ARMORED COPPER GROUND WIRE
3. COVERED BY A MINIMUM OF:
 - (1). HARDWOOD MOULDING (OF OAK OR ROCK ELM) 3/8" IN THICKNESS, OR
 - (2). DOUGLAS FIR MOULDING 1/2" IN THICKNESS, OR
 - (3). RIGID CONDUIT OR RIGID U-SHAPED MOULDING OF A MINIMUM SCHEDULE 40 PVC

SETTING DEPTH FOR
25' POLE: 5'-0"
30' POLE: 5'-6"
35' POLE: 5'-6"

REMOVABLE CAP

(K) 6'-3/4" PVC SCH #40 POLE DEPTH CONDUIT, CAPPED ON THE BOTTOM AND STRAPPED TO THE POLE.

WHEN CUSTOMER'S LOAD CONDUCTORS ARE UNDERGROUND, INSTALL CONDUIT AS INDICATED BY DASHED LINES.

CAPPED

ALTERNATE METHODS OF COVERING SERVICE ENTRANCE CONDUITS
COVERING TO BE STRAPPED TO POLE WITH GALVANIZED TWO HOLE PIPE STRAPS SPACED NOT TO EXCEED 3'-0" APART.



POLE DEPTH CONDUIT TOP VIEW



IMPREGNATED FIBRE CONDUIT OF 1/4" MINIMUM THICKNESS



WOOD MOULDING OF 1 1/2" MINIMUM THICKNESS



BOXING OF WOOD OF 1 1/2" MINIMUM THICKNESS. THE COVER IS TO BE NAILED TO THE SIDE PIECES.

SERVICE GUIDE

CUSTOMER-OWNED SERVICE AND METER
POLES TEMPORARY/NON-CLIMBABLE

1998/99

GENERAL NOTES

(A) THESE ARE MINIMUM REQUIREMENTS FOR ALL TEMPORARY SERVICES. TEMPORARY SERVICE IS FOR A PERIOD OF ONE YEAR OR LESS.

(B) POLE LOCATION:
POLE SHALL BE SET NOT MORE THAN 100 FEET NOR LESS THAN 10 FEET FROM THE SURFACE OF SDG&E SERVICE POLE AND SO LOCATED THAT ALL REQUIRED SERVICE DROP CLEARANCES WILL BE OBTAINED FROM GROUND, BUILDINGS, STRUCTURES AND OTHER CONDUCTORS ON SDG&E'S POLE INCLUDING FOREIGN COMMUNICATION AND SUPPLY CONDUCTORS. IT ALSO MUST BE LOCATED WITHIN A 20 FOOT RADIUS FROM A ROAD OR OTHER DRIVABLE SURFACE SO SDG&E CAN CONNECT AND MAINTAIN THE SERVICE DROP FROM A BUCKET TRUCK. IN SELECTING THE POLE LOCATION, CONSIDERATION SHOULD BE GIVEN TO PROVIDING ADEQUATE CLEARANCE IN AREAS WHERE:

1. CONSTRUCTION EQUIPMENT WILL BE OPERATED.
2. CHANGES IN GRADE OF STREETS, DRIVEWAY AND OTHER LANDS ARE PROPOSED.
3. BUILDINGS OR STRUCTURES ARE PROPOSED TO BE ADDED DURING THE PERIOD OF TEMPORARY SERVICE.

ADEQUATE CLEARANCES SHALL BE PROVIDED, WHETHER OR NOT SUCH AREAS OF CONFLICT OR OBSTRUCTION ARE ON THE PREMISES SERVED.

WHENEVER THERE IS ANY UNCERTAINTY REGARDING THE POLE LOCATION, CONTACT SDG&E AT ANY DISTRICT PROJECT MANAGEMENT OFFICE AND APPLY FOR A SERVICE LOCATION.

(C) SERVICE DROP MINIMUM CLEARANCES :

AT CENTER OF STREET OR 12 FEET FROM CURB, WHICHEVER IS LESS	18 FT.
AT CURB LINE	16 FT.
OVER COMMERCIAL OR INDUSTRIAL DRIVEWAYS, PARKING AREAS OR AREAS CAPABLE OF BEING TRAVERSED BY VEHICLES	16 FT.
OVER RESIDENTIAL DRIVEWAYS	12 FT.*
OVER AGRICULTURAL AREAS	15 FT.

OVER RAILROADS OR FOR OTHER SPECIAL CONDITIONS, CONSULT SDG&E'S REPRESENTATIVE.

* MAY BE REDUCED TO 10 FT. IF SSC SERVICE.

SERVICE DROP CABLE SHALL BE USED BY SDG&E. THE TYPE OF CONSTRUCTION USED BY THE CUSTOMER IS HIS OPTION.

(D) WHERE CLEARANCES CANNOT BE OBTAINED WITH THE 20 FOOT POLE SHOWN, A PERMANENT/CLIMBABLE POLE IS REQUIRED. SEE STD. 645.

(F) ALL CONDUIT FITTINGS MUST BE RAIN TIGHT. APPROVED WIRE, NOT LESS THAN NO. 8 AWG, SHALL BE USED IN THE SERVICE ENTRANCE CONDUIT.

(G) SAFETY SOCKET CAN WITH TEST-BYPASS FACILITIES IS REQUIRED WHEN POLE IS TO BE USED FOR COMMERCIAL/ INDUSTRIAL PREMISES TEMPORARY/CONSTRUCTION POWER. SERVICE EQUIPMENT AND RECEPTACLES MUST BE RAIN TIGHT, PROPERLY RATED FOR THE LOAD TO BE SERVED AND SHALL BE ADEQUATELY BONDED AND GROUNDED.

(H) RECEPTACLES USED TO CONNECT PORTABLE TOOLS SHALL BE 3-POLE TYPE FOR SINGLE-PHASE MOTORS AND 4-POLE TYPE FOR THREE-PHASE MOTORS, ONE CONTACT TO BE USED FOR GROUNDING CONNECTION. WHERE MORE THAN ONE VOLTAGE IS USED, THE RECEPTACLES SHALL BE NON-INTERCHANGEABLE.

I. PERMIT AND INSPECTION MUST BE OBTAINED FROM THE INSPECTION AUTHORITY HAVING JURISDICTION BEFORE SERVICE WILL BE CONNECTED BY SDG&E.

J. CONSULT SDG&E FOR ADDITIONAL REQUIREMENTS WHENEVER THREE-PHASE OR 120/208 VOLT SERVICE IS DESIRED OR, WHERE SINGLE PHASE SERVICE EXCEEDS 100 AMPERES, OR FOR TEMPORARY SERVICE FROM UNDERGROUND SYSTEMS.

K. FLOODLIGHTS, SIGNS, ROPES AND ANY SIMILAR EQUIPMENT SHALL NOT BE ATTACHED TO TEMPORARY SERVICE AND METER POLES.

L. COVERING OF METALLIC CONDUIT WILL NOT BE REQUIRED ON METAL POLES, PROVIDED THE METAL POLE IS EFFECTIVELY GROUNDED AND PROVIDED ALL METALLIC CONDUITS ARE ADEQUATELY BONDED TO THE METAL POLE WITH APPROVED CLAMPS OR CONNECTORS.

(M) ALL METER POLES MUST HAVE THE NUMERIC PORTION OF THE STREET ADDRESS FIRMLY ATTACHED AND FACING THE STREET OR DRIVABLE SURFACE. PLASTIC OR METALLIC NUMBERS OF THE TYPE USED FOR HOUSE ADDRESSES ARE ACCEPTABLE.

N. A TELEPHONE AND/OR CABLE TV SERVICE DROP MAY ATTACH TO A METER POLE PROVIDED:
(1) THE ATTACHMENT IS OUTSIDE THE CLIMBING SPACE, (2) A MINIMUM RADIAL CLEARANCE OF 12" IS MAINTAINED FROM ANY PORTION OF THE DRIP LOOP, AND (3) IT MEETS ALL G.O. 95 REQUIREMENTS.