

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G40.053.1
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AT&T Co Standard

CONDUIT AND MANHOLES
DELIVERY AND STORAGE OF MATERIALS

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1. SCHEDULING

1.01 Orders for material should be placed sufficiently far in advance of the actual beginning of construction as to avoid any delay once the work is started. Data on material requirements will be available coincident with the preparation of contracts and specifications. If advisable, the project may be divided into sections and the ordering of material arranged on a schedule calling for delivery of material at predetermined time intervals in keeping with the progress of the work.

2. RAILROAD UNLOADING POINTS

2.01 At the time of scheduling orders for material, a survey should be made of the available unloading points along the route. If the project is long, it will be of advantage to select several such points on the basis of the most economical length of haul from these points.

3. DISTRIBUTION TO JOB

3.01 To avoid rehandling, an effort should be made to truck conduit from the cars directly to the job.

3.02 Conduit and other materials should be distributed along the same side of the highway as the trench, preferably between the curb and the traveled portion of the sidewalk, or, in open country, close to the fence line. Place the conduit so as

to shorten as much as possible the distance it must be carried to the trench. The distribution of the conduit in small piles along the route will facilitate this work. The pieces may be tied together with construction wire where this precaution is considered necessary to prevent their being disturbed. Dispose of projecting ends of wire which might catch in the clothing of passersby.

3.03 In distributing material, be careful to cause as little inconvenience to the public as possible. Do not obstruct gutters, surface drainage, sewer inlets, driveways, etc.

3.04 As far as possible such materials as cement and aggregate should be so distributed that only the amounts needed will be placed at each mixing point. The use of ready-mixed concrete or centralized mixing plants, where practicable, will simplify this distribution. Sand and cement for mortar should also be deposited at suitable points along the route.

3.05 Creosoted materials shall not be placed where pedestrians might come in contact with them, nor should they be placed on grass or against shrubbery.

3.06 Manhole frames and covers, metal reinforcing bars, rack materials, forms and timber for forms should be placed as near the manhole locations as practicable.

4. STORAGE

4.01 If it is inadvisable to distribute conduit directly to the job as recommended in 3.01, storage yards adjacent to the railroad siding should be obtained. As conduit is needed, it should be removed from the storage yard and delivered directly to the trench side. For storage periods of 3 months or more, substantial sleepers should be placed under the stacks to supply a firm bearing against settling in the ground and to prevent the conduit from freezing to the ground in cold weather. Light strips of wood sufficient to hold the conduit off the ground are satisfactory for shorter storage periods.

4.02 Pine Conduit should be stored so as to minimize the loss of moisture from the wood. The stocks should be shielded from the sun and the circulation of air through the piles prevented. This can be accomplished by covering the conduit with any durable material such as tarpaulins or waterproof paper.

4.03 Fibre Conduit should not be stored in stacks more than 5 feet high and should be shielded from the sun in hot weather.

4.04 Cement in bags should be placed on planks and covered with tarpaulins or should be kept under a roof where it will not be exposed to excessive moisture.

4.05 Brick and aggregates should be stored in a manner to prevent the intrusion of foreign material such as spoil, excessive dust, leaves, etc. Sand and stone for aggregate should be stored and handled in such a manner that the moisture content is not liable to marked changes. This is in the interest of facilitating the production of uniform concrete without frequent corrections for variations in moisture content.

5. DELIVERY OF READY-MIXED CONCRETE

5.01 Deliveries of ready-mixed concrete should be arranged in accordance with the provisions of G45.145.1.