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Until July, 1927, the Mountain Springs grade was a treacherous ten miles of rocky trail which led out of the Imperial Valley into the mountains of San Diego, California. At that time a concrete highway, 20 feet wide and 7.2 miles in length, was completed. Its elevation variance is approximately 1800 feet making an average grade of 7% with super-elevated curves and a continuous series of alternating reverses.

Unusual conditions — preparing a grade from solid rock formation, long haul of materials, temperature as high as 122° — demanded rugged, dependable equipment. That's one reason why the Koehring Heavy Duty Shovel did all the excavation work — traveling over uneven rock formation.

At the stock pile and batcher bin a Koehring Heavy Duty Crane handled the crushed rock and sand while on the grade a Koehring Heavy Duty Paver mixed the dominant strength concrete, — a complete Koehring-equipped job.

KOEHRING COMPANY
MILWAUKEE, WISCONSIN
Manufacturers of
Pavers, Mixers—Gasoline Shovels, Cranes and Draglines

KOEHRING

OCTOBER, 1928
A TRUE SPHERE

Is the strongest shape for a given size known to man. The steel ball in a New Departure Ball Bearing combines accuracy with a strength that is seldom entirely appreciated. 17/32-inch New Departure steel balls were forced into a tough steel block under 108,000 pounds pressure—and they are still good!

Consider this strength combined with an accuracy in sphericity to within .000001 inch (one-millionth of an inch) and you have some conception of the superiority of New Departure Ball Bearings over other anti-friction bearing types.

The next discussion will be on the subject of electric furnace high carbon chrome alloy steel and the part it plays in making New Departure the most enduring bearing for any purpose.

THE NEW DEPARTURE MANUFACTURING COMPANY
GENERAL OFFICES: BRISTOL, CONNECTICUT
Product of General Motors

New Departure
Quality Ball Bearings
EVERY outside window above the ground floor in the Barclay-Vesey Building of the New York Telephone Company has Mississippi Polished Wire Glass protection. Another one of many famous buildings made safer by the recognized standard in wire glass. The Architects and Engineers are Voorhees, Gmelin & Walker; the general Contractors are Mark Eidlitz & Son.
THAT'S the telephone "Hello" in Madrid. In London, it's "Are you there?" But in many foreign countries, Americans find a universal language in the telephone salutations. It's good old "Hello"—a subtle tribute to the fact that the telephone is an American invention.

And so it is with elevator service. Even though they say "Diga" in Spain, the architects of the magnificent new Madrid Telephone Building unhesitatingly said "Otis" because Spain demanded the last word in elevators. You will find in Madrid the same type of Signal Control Elevators that are now installed in those monumental telephone buildings in America, in New York, Cleveland, St. Louis and San Francisco.

OTIS ELEVATOR COMPANY

Offices in All Principal Cities of the World
Helping Philadelphians gain an hour a day

Where do young college men get in a large industrial organization? Have they opportunity to exercise creative talent? Is individual work recognized?

PHILADELPHIANS who use the new Broad Street Subway now travel the seven miles from Olney Street to South Street in less than 20 minutes; a trip that formerly took 45 minutes. There is an extra hour of freedom every day for those who use this new route to travel to and from business.

The operating conditions imposed on cars by a rapid transit subway system of this kind are unusually severe and require careful and special design of the electrical equipment. The 150 modern subway cars, 67 feet long, powered by two 210-horsepower Westinghouse motors and controlled by Westinghouse equipment, that operate in this subway are a notable achievement in electrical engineering. Westinghouse takes pride in the fact that it was called on to furnish this equipment.

Big jobs go to big organizations. Westinghouse attracts young men of enterprise and genius because it daily provides opportunities that smaller corporations can seldom offer.

The Broad Street Subway was built by the City of Philadelphia at a cost of more than $100,000,000. The 150 cars that serve this subway have motors, control, switch panels, fans and battery charging equipment designed, built and installed by Westinghouse. The story of some of the conditions facing the engineers on this job, and how they were overcome, may be found in an article in Electrical Railway Journal for June 9, 1928.
Completely electrified—the largest American-built ship

Completely electrified—quiet, vibrationless, luxurious, swift—the S.S. California, largest American-built passenger ship, has opened a new era of ocean travel.

Two turbine-generators, each rated at 6600-kw., supplying power to two main propulsion motors, constitute the turbine-electric drive, used for the first time in a large passenger ship. Four turbine-driven 500-kw. d-c. generators supply power for auxiliary equipment which aids in the operation of the ship and adds to the comfort of passengers.

Complete electrification makes the California an engineering marvel and a commercial success; it is booked far in advance, a sister ship has just been launched, and another is under construction.

College-trained men of the General Electric Company, which engineered the electric power installation on these luxurious passenger ships, have thus played a significant part in the opening of a new era of ocean travel.

This monogram is found on great motors that give the California and on a multitude of electric appliances which contribute to the comfort of her passengers. It is an emblem of skilled engineering and high manufacturing quality.