

JANUARY 1955

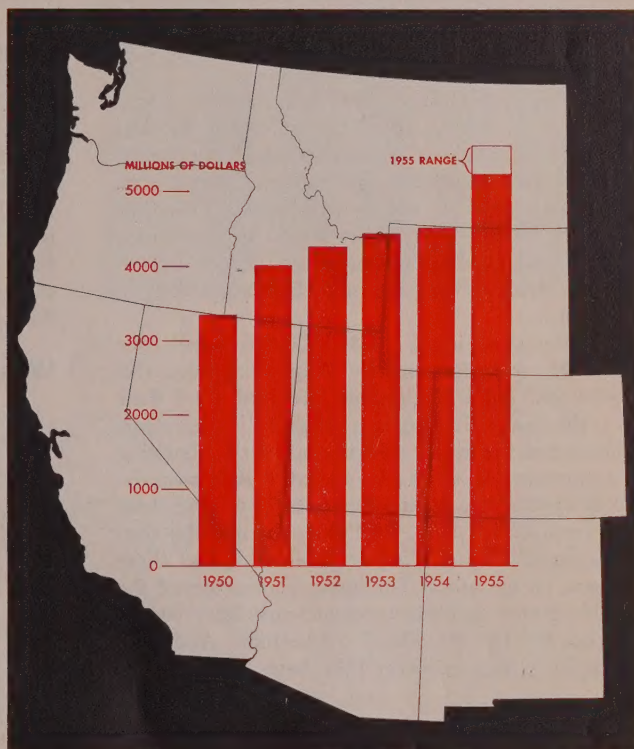
Statistically . . .

Here is a chart. What it shows for 1955 surprises us. The calm optimism with which prospects are viewed for the nation doesn't seem to fit the 11 Western states and Alaska. In the West, downright enthusiasm of the button-busting variety seems more in order.

Look at the chart more closely. The way we see it, a conservative estimate is for a 13% increase in heavy construction activity. Depending on how the President's highway program goes, you can move right on up—to an increase of 25%.

There hasn't been anything like this in four years. (From '50 to '51 the West logged an increase of 12%.) But nation-wide construction has topped top honors now for four years in a row. And Western population pressures haven't changed a bit. (Now they're talking of California outstripping New York in another 10 years!)

And here is the result—this chart showing 1955 to be a bang-up year. Now the question is: which specific fields get the nudge?

**Specifically**

WESTERN CONSTRUCTION OUTLOOK

.... Boom season on its way for '55

A BIG BOOST IS COMING this year in Western construction volume. That's the only conclusion possible from a look at Western population growth, national and regional governmental policy, the actions of private construction sponsors throughout the West . . . and the 12 review articles that follow—one for each state plus Alaska.

1954 was a confusing year, although a record breaker in its final volume—as of December figured at over \$4,500,000,000. At the same time contracting competition was the roughest in years. This is perhaps the most important single thing emphasized in the pages of commentary received by **Western Construction** from all over the West in preparation for this issue.

Competition. And no one is looking for an easier time in '55. Yet the cracking increase in volume set forth in the chart above should remedy the situation. It should mean better profit margins and fewer ulcers.

So contractors are looking to a competitive year, but a good one. The two ideas aren't contradictory. Don Shaw of the Southern California AGC chapter puts the business in its proper light when he says, "This area probably enjoys, and I use that word advisedly, more competition than most other construction centers." Certainly no one would say that Southern California was a bad market for construction. But it is competitive.

Now, without trying to divide dollars by numbers of bidders where they appear, here is a summary of trends and events.

Last year was the first full year for the Eisenhower administration. Its own plans and policies prevailed for the first time. And the immediate effect was a slump that began late in 1953 when everyone realized that the other fellow was being a little cautious too.

But what happened? Political events did not bear out the cautious and sometimes dismal predictions. Execu-

tive matters were capably handled and Congress took confidence from the fact. This is of no small importance: federal policy and federal funds still count for a lot in the U. S. and in all its regions. Congress chalked up a pretty fair record so far as construction was concerned.

Construction that could be done by local or private sponsors was left alone, thereby assuring local interests that the ball was theirs. It took this specific neglect in some cases to jar private enterprise into the realization that the initiative and opportunity really belonged to them.

Construction of a public nature got funds in larger amounts than in 1953, when the swinging political pendulum had carried an axe that slashed appropriations. The Corps of Engineers got money to expand its Western activity, though not in civil works. This year military work got the boost, as the heavy Air Force base program reached a climax. The next fiscal year will probably see the Army getting the nod, by comparison, in appropriations.

Reclamation also picked up \$20,000,000 worth over 1954, and that is almost entirely Western activity. Despite social and political questions involved (and their validity), the heavy Reclamation program in past years had been one of the major contributors to the changing Western construction scene. Its recent curtailment destroyed the spectacular quality that had for so long characterized construction here. And it heightened the contrast between 1953 and 1954, on one hand, and those earlier years, on the other. The heavy contractors of the West, bidding now on other types of work, have largely been responsible for the added competition. And with their experience and resources they have been hard to beat out.

Heavy construction means dams again

The outlook for heavy construction this year is good. Remember, to admit that the federal government has slowed its construction of reclamation dams is not to say that the need for water supply and power dams has fallen off. Water and electric power have not been in oversupply in the Western region within memory. Growth has always created a demand. And it still does.

Washington is the dam state for 1955. That state—and the entire northwestern area—has made remarkable strides in meeting the challenge of partnership development. Two combinations of utilities have been formed to speed work, and a Columbia Basin compact has been negotiated among seven basin states. Here are some specifics:

Puget Sound Utilities Council, formed of two private and two public utility groups, is ready to do financing and distribution chores for such projects as Priest Rapids Dam on the Columbia. Probably to be built under Grant County Public Utility District auspices, the job would produce 1,200,000 kw., with only 40,000 kw. initially needed by its sponsors. Then there is Pacific Northwest Power Corp., comprising Pacific Power & Light and Portland General Electric (Oregon), Washington Water Power (Washington), and Montana Power (Montana). This group hopes jointly to build at Bruce Eddy on the Clearwater in Idaho—244,000 kw.

Seattle City Light has taken bids on Gorge Dam, a

\$14,700,000 addition to the Skagit Project downstream from Ross and Diablo dams. Merritt-Savin, the combine building Folsom Dam, was low. Tacoma City Light is coming up soon with a bid for Mayfield Dam on the Cowlitz. Douglas County PUD in Washington has plans for another Columbia River dam, and has applied to the FPC for a permit to investigate. Pend Oreille County PUD has its Box Canyon work well on the road to completion (**Western Construction**—October 1954).

Utility construction, already represented by the above projects, also comprehends another spectacular activity—pipelines. Plans for these lace the entire Western region. The biggest (\$160,000,000) and most controversial got off to a tentative start late in 1954 with award of an all-inclusive engineering and construction contract to Fish Engineering Co. of Houston. Despite appeals before the FPC by others interested in the gas service proposed, Fish and Pacific Northwest Pipeline Corp. hope to get a start in the field this year on the 1,466-mi. job (San Juan Basin, New Mexico, to Bellingham, Washington).

Westerners show how in Missouri Basin

Worth mention for sure in an overall look at the construction business in these parts is some work that is geographically on the fringe. This is the Missouri Basin work under the Corps of Engineers. Western contractors and Western methods have gotten a good share of that activity, and it's a whopper. At age 9 years the project represents \$1,725,000,000 in work either done or under way. This against a total estimate of \$2,448,000,000. The percentage is about 70, and about 39% is finished. The 31% is what's obligated under going contracts. Contractor earnings at Fort Randall, Gavins Point, and Oahe last year ran about \$40,100,000. This year they'll go to about \$49,600,000. On just three jobs, where new awards will total \$26,900,000.

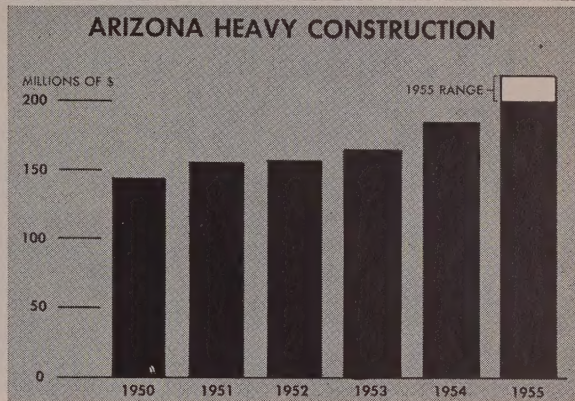
One of these projects exhibits what may be called a trend. It's the tunnel drilling at Oahe Dam, by Mitty Constructors of Los Angeles. **Western Construction** next month will present some detail on the equipment and methods, which are described by the Corps as the logical step in soft-rock tunneling after the experience of Fort Randall work.

A cardinal disappointment for the construction industry, when Reclamation otherwise was getting a welcome boost, was the failure of the Upper Colorado River Storage Project to pass Congress. This represented the first instance of the Western states' splitting on a reclamation vote. It was California's fault, and that state is apt to pay heavily unless it changes its position in the months to come.

Individual setbacks such as this one are more than a mere bother to the individual states, agencies, and potential contractors involved. But they do not stand as a permanent "lid" on construction in the West. The overall demand is there, materials are in generally good supply, equipment is quickly available, and—most important—construction buyers are contracting for enough work to set another record. Buildings in Denver, dams in Oregon and Washington, military bases in the southwest, industry in Utah and on Puget Sound and in California, pipelines and highways throughout the West. It's a \$5,000,000,000 (plus!) year.

ARIZONA

23% more people since 1950, second highest growth rate in the nation, is keeping Arizona contractors busy. Mass-scale residential projects, steam power plants and light industry development made 1954 the state's biggest year yet. Highway expansion and the pent-up need for waterworks and sewerage, plus increased military spending at air bases, will make 1955 even bigger.



TWO MAJOR ELEMENTS mark the level of construction activity in Arizona and guide its course for the immediate future. One is population influx, requiring increases in home construction and in the supply of commercial goods and services. The other is highway construction, since Arizona is a "bridge" state of commercial transport and also relies heavily on tourist traffic within the state.

But the development of power and other resources, combined with the availability of land and adequate transportation—and don't discount Arizona's climate!—has done much to encourage an influx of additional commerce and light industry. These are positive contributors to Arizona's growth and therefore to its construction economy in 1955.

Multi-million dollar housing projects on a grand scale

Maricopa County, with Phoenix as its major city, is the center of activity, corresponding to such other spectacular examples of Western municipal growth as Portland, Ore., and Denver, Colo.

Just the following jobs, residential construction on a mass scale, are an indicator of what's been going on around Phoenix in the year just past: 360 houses being erected on an 80-acre tract at an approximate cost of \$3,000,000 by John C. Hall; 80 houses at a cost of about \$720,000 by Ralph Staggs Construction Co.; 286 houses on a 72-acre tract at a cost of \$3,000,000, also by Staggs; 523 apartment units at a cost of \$4,000,000 by Rubenstein Construction Co.

This type of work hasn't come upon Arizona just in a day. It's been gathering momentum over a period of years. For example, Alfred Andersen Construction Co. last year completed a 6-yr. project that cost about

\$10,000,000—980 houses on a 260-acre tract.

Buildings to house goods and services necessarily follow this kind of expansion. Just a couple of months ago plans were announced and work is now getting under way on the Uptown Plaza, a \$2,000,000 project of shops and offices being built by Del E. Webb in Phoenix.

Much of the industrial development in Arizona is of the modern "smokeless" variety—such as the new AiResearch Manufacturing Co. jet turbine testing plant, which is now just about finished at a cost of over \$4,000,000. But heavy industry is traditionally represented in Arizona by mineral mining, and this field has shown spectacular growth. Most often in the news is the new San Manuel project which involves construction of a complete company town. Del E. Webb Construction Co. is doing this work, and is approaching completion of the first 1,000 houses involved. Eventually a total of 2,000 will be built, as well as all necessary public and private business and utility structures.

Highway expenditures will be up \$3,000,000 for calendar 1955

The principal public works categories required to support this Arizona expansion are highways, electric power, and water. Highway construction in Arizona has the same bright outlook characteristic of nearly every other state. Expressed in figures, the State Highway Department estimates that 1954 expenditures of \$17,000,000 will be exceeded by \$3,000,000—a total of \$20,000,000 this year.

As implied editorially on page 15 of this issue, Arizona has not in recent years experienced any sudden jump in highway activity, such as a bond issue, which would result in a large road building capacity today. Staffing the department for even

gradually increasing construction budgets has been difficult, and as a result the department lacks a well defined backlog of projects to which construction funds can be applied.

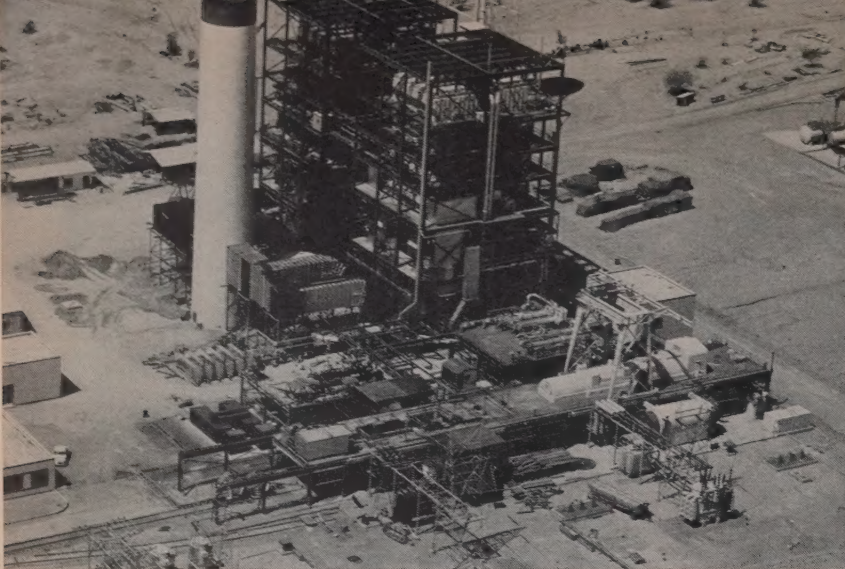
But the state for some years has had progressive administration, including a department of economics and statistics that was among the first to adopt a sufficiency rating system for highways. As a result the state's highway needs are well known and there need be no lost motion in determining which project to design and what peculiar traffic needs to design for.

Arizona climate allows construction of low cost outdoor plants

Major electric utility comes under the auspices of the Salt River Power District and Arizona Public Service Co., both of Phoenix. Salt River Power has been in the news all the past year—and in the news pages of **Western Construction**—with its continuing construction of steam electric generating facilities.

Salt River Power completed its \$13,000,000 Kyrene plant 12 mi. southeast of Phoenix during 1954, thereby adding another 100,000 kw. to the system generating capacity. Built by Bechtel Corp., the Kyrene plant is the first outdoor plant in the state of Arizona. This means there is no building over the turbine and generator bays. This feature represents considerable saving in construction costs. As a result, and despite its smaller size compared to others that have been built in California and for the TVA, its first cost is competitive with any steam plant throughout the country.

Plans are now under way for the construction of still another 100,000-kw. plant, one which will be even more advanced and efficient than Kyrene. A single 100,000-kw. gen-



MAJOR PROJECT in 1954 for Arizona Public Service Co. of Phoenix was the Saguaro steam plant. The first 100,000-kw. unit went into service last August with another unit to be in operation early this year. Completed plant cost, \$24,500,000.

erating unit will be installed, as compared to the two units at Kyrene. The overall design will incorporate outdoor plant layout, although the location is yet to be determined. Like Kyrene, the new plant will use natural gas for fuel, with provisions for oil burning in emergencies.

Construction of the new steam plant was assured in November 1954 when district share holders voted in favor of an \$11,000,000 revenue bond issue to cover most of the construction costs. An additional \$2,000,000 of expense will be met from current power revenues.

Arizona Public Service Co. is matching the foregoing achievements, kilowatt for kilowatt. The new Saguaro steam plant went into operation in August 1954 with 100,000 kw. of generating capacity. A second unit of the same size is expected to be in operation this year. Thus completed, the plant will represent an investment of about \$24,500,000.

Other major construction by the company planned for 1955 will be a new 100,000-kw. plant in Tempe, just east of Phoenix. Known as the Ocotillo plant, this installation will be under construction for the next two years or more and will cost about \$13,000,000.

Work on the distribution end of Arizona Public Service facilities includes a new 60-mi. transmission line from Flagstaff to serve the Grand Canyon. Also, 1954 saw completion of the first phase of a program for putting primary distribution lines underground in downtown Phoenix.

In the city of Phoenix itself an exceptionally heavy program of new and improved utility construction has just been completed. The magnitude of the work is indicated by the fact that expenditures for major

work in 1955 will drop to about \$2,150,000 from a 1954 figure of \$6,590,000.

Here are the major works completed in 1954: installed 24- to 60-in. water transmission mains—\$3,000,000; Verde River water infiltration plant additions—\$200,000; Evergreen Station (in Verde River power line)—\$40,000; Squaw Peak storage reservoir—\$525,000; Squaw Peak water filtration plant—\$1,800,000; street paving—\$400,000; sanitary sewers—\$425,000.

The last two items mentioned above are more or less continuing classifications of public work. It is interesting to note that 1955 estimated expenditures in these classifications show an increase. Sanitary sewer construction will come to \$600,000 and street paving will come to the same figure. In addition there is anticipated \$300,000 in water feeder main construction, and \$650,000 in fire protection water mains in the business district and newly annexed areas.

Water conservation, land reclamation on the Gila Project

A final category of construction which contributes in a positive way to the Arizona economy is reclamation. This year, as for several just passed, work is continuing on the Gila Project. Under an allocation of \$900,000 provided by a supplemental appropriation to last year's funds, work on Unit No. 4 of the Mohawk laterals was begun. Construction dates on this work were advanced about 6 months in order that eventual completion and supply of water to 8,000 acres can begin a year earlier than originally planned. Unit No. 4 consists of 21 mi. of laterals and sub-laterals. Another 17 mi. of

laterals for the Dome and Wellton-Mohawk distribution systems were also begun in 1954. In 1954, 27 mi. of canals and laterals on the Dome system were completed.

More money for Corps on flood control and military work

Major civil works activity by the Corps of Engineers in Arizona is concentrated in the proposed Painted Rock Dam near Gila Bend on the Gila River. But to date the \$25,000,000 project has only been authorized; no construction funds have been appropriated. In the meantime, planning activities continue to the tune of \$100,000 appropriated for the current fiscal year.

Painted Rock Dam is contemplated as an earthfill structure 174 ft. high and 7,500 ft. long.

Military construction by the Corps in Arizona is administered by the Los Angeles District. Most of the work continues to be for the Air Force. And the direction of activity, measured in dollars, is up. Last year some \$6,000,000 was spent; this year the figure will run closer to \$9,000,000.

As elsewhere in the West, Arizona continues to grow, and its construction market is paced by a heavy population influx and the development of a large supporting group of commercial and light industrial enterprises. Markedly arid, Arizona therefore requires particular attention to the development of water resources. So far, continued large scale watershed developments have not been necessary. Since water conservation and flood control would be their first purpose, firm power supply comes from steam plant construction. Such developments, concentrated in the major population centers, bring a continued heavy emphasis on construction activity in those areas also. Arizona is growing with the West. In fact, in some ways it is growing ahead of the West.

1954's BIG ONES IN ARIZONA

Fisher Construction Co. of Phoenix, construction of runway and taxiway at Luke Air Force Base—\$1,318,000.

Kitchell-Phillips Construction Co., Inc., and Utah Construction Co. of Phoenix, construction of 71,000-sq. ft. test facility building adjacent to Sky Harbor airport in Phoenix—\$2,727,160.

Morrison-Knudsen Co., Inc., of Los Angeles, earthwork, concrete lining, and structures on the Welton-Mohawk Division of the Gila Project—\$1,168,977.

James Stewart Co. of Dallas, construction of a 10-story bank building in Phoenix—\$2,740,000.

CALIFORNIA

A decade away from passing New York as the nation's most populous state, California has spectacular construction plans at all levels. City, county, state, and utility agencies will dig into backlog in 1955 to bring construction near an all-time \$3-billion level. Large-scale water supply projects could take the spotlight, but city and county work will be a big factor.

EASILY THE MOST SPECTACULAR quality of heavy construction in California lies in the terrific work loads of the individual sponsoring agencies, whether public or private. Logic is given to the size of electric power, highway, water supply and sewerage programs in the state only when the programs of individual cities and counties, and of industries, are also considered. Between them, these two general divisions of California construction activity emphasize the health of an economy that seems to be expanding faster, if that is possible, than an admittedly heavy population influx alone would warrant.

To detail the many aspects of construction in California would take many more pages than are available in this review. But a good understanding of California construction can be had in summaries of work by the state highway department, two or three of the major power utilities, water conservation and irrigation districts, county road departments, city engineering departments, the Bureau of Reclamation and the Corps of Engineers.

1,600 mi. of multi-lane, toll-free highways—growing more yet

The California budget for the coming fiscal year provides \$122,018,000 for major construction and improvement, compared with \$131,387,000 for the fiscal year now ending. This reduction reflects the provision of present law that the current gasoline tax automatically will be reduced by one-half cent in July, and other highway user taxes also reduced proportionately. It should be noted that there is strong favor for continuing the gas tax at present levels, but quick legislative action will be required for this.

As with other types of public works, new budget funds are not the whole story for showing the level of

work. As in the year just passed, California will have about \$300,000,000 worth of highway construction under way this year. This total figure takes into account about \$200,000,000 in work that was under way or in the advertising stage on January 1—as well as the expectation of placing most of the fiscal 1956 funds under contract this year.

California's highway maintenance schedule will hold about steady, according to G. T. McCoy, State Highway Engineer. The new fiscal year budget is \$23,000,000, as against funds last year of \$22,500,000.

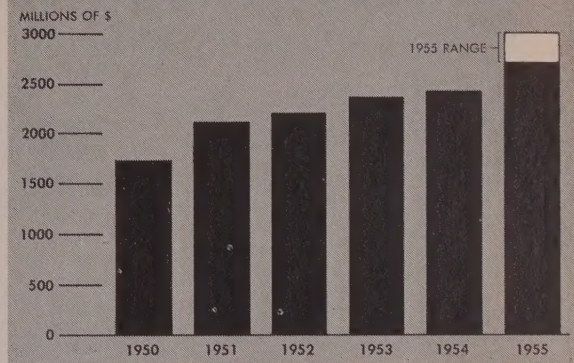
California's state highway organization planning includes consideration of a big boost in construction if special federal funds become available.

In releasing details of the coming work program, California noted "a conception of the highway improvements which will be accomplished can be gained from these facts: the major construction projects affect more than 400 mi. of state highways; a total of 40 bridges across streams and 133 other structures will be constructed; 65 mi. of the proposed improvements involve full freeways, which will bring California's total of full freeways to a new high of 388 mi. The proposed 64 mi. of expressway construction (with some intersections at grade) will increase the mileage of multi-lane divided highways to 1,639."

The largest single item in the construction portion of the budget is \$7,015,000 for an 8-lane section of the Eastshore Freeway in Oakland, connecting to the distribution structure at the east end of the San Francisco-Oakland Bay Bridge. The next largest is \$4,600,000 for extension of the Harbor Freeway in Los Angeles.

There are other notable projects in California under state auspices, either being built by the Toll Bridge

CALIFORNIA HEAVY CONSTRUCTION



Authority or under consideration by the Highway Commission. Among the former is the Richmond-San Rafael Bridge across the northern part of San Francisco Bay. There are two major contracts on this job, one at about \$14,300,000 for substructure, which is being carried out by Ben C. Gerwick, Inc. and Peter Kiewit Sons' Co. The superstructure contract at \$21,100,000 is held by Kiewit, in conjunction with Judson Pacific-Murphy Corp. The underwater work involving unique and effective application of precast concrete elements is about 80% complete, and superstructure is at about the 40% mark.

Long overdue plans for a second bay crossing between San Francisco and Oakland finally got some place in 1954 with approval by the Corps of Engineers. The next step is submission of the crossing plans to the state legislature this month.

Much more being planned for the Central Valley Project

Another agency sponsoring construction statewide in California is the U. S. Bureau of Reclamation, and the focus of its efforts in California for many years has been the Central Valley Project. Although this vast system of irrigation, reclamation, conservation, and power facilities has been functioning effectively for some years now, it is still far from complete.

At present a substantial construction program continues on the project, principally in the form of Folsom powerhouse, a 162,000-kw. facility for which all major contracts have been awarded. The structure itself was completed in 1954.

Also completed in 1954 were 46 mi. of pipeline, laterals, and sublaterals for the irrigation system itself. Large scale construction continues on these systems, particularly

those under the Friant-Kern and Madera canals. About 50 mi. of pipelines are being built under various contracts and overall progress is about 20%.

First major work to be undertaken on the Sacramento Canals unit of the Central Valley Project began late in 1954 for 7 mi. of the Corning canal, including seven prestressed concrete bridges. This work is in the northern part of the state near Red Bluff. A second section of the canal, about 5 mi. long, is scheduled for a construction start early this spring.

The feature of the Solano Project on the west side of the Sacramento Valley is Monticello Dam, construction of which was covered in these pages last September. Progress on the work is officially about 25%, the first season having been devoted principally to rock excavation in the abutments and by-pass road construction. Completion of tunnel work will allow diversion during the coming year and commencement of dam construction proper. Monticello Dam will be a concrete arch rising 295 ft. above its foundation. Crest length will be 1,000 ft., and the volume 260,000 cu. yd.

To the south new construction funds totaling \$520,000 made available under a supplemental appropriation for the current year, will allow completion of the Cachuma Project if present construction conditions prevail. The big question mark here is Tecolote Tunnel, one of the most difficult in construction history. A measure of the difficulty underground lies in a comparison of the original contract price of \$4,800,000 to a presently estimated total cost of about \$10,000,000. The job was thoroughly reviewed in **Western Construction** for August 1954.

At the end of 1954 progress on the tunnel contract was estimated at 85%. By the end of November only 1,500 ft. of tunnel remained to be driven, and it was hoped to hole through in January.

Still further south in the state, 1954 saw completion of 11 mi. of pipelines for the Coachella Valley distribution system, part of the All-American Canal development. Also, work wound up on the San Jacinto-San Vicente aqueduct, the last portion of the job being 9 mi. of pipe. This job is the celebrated "second barrel" supplying Colorado River water to the San Diego area.

Long range water plans by the state and Bureau of Reclamation

Several new projects are proposed for Bureau of Reclamation construction. In view of the present Democratic majority in Congress and a renewed interest in Reclamation in the West, the prospects for new projects are better than they have been for the last couple of years. Such a project is the Trinity Project. This contemplates a dam on the Trinity River in the northern part of the state, and diversion of the impounded water through the Coast Range into the upper reaches of the Sacramento Valley. Existing features of the Central Valley Project could then be used to move this water, or its equivalent, to areas as far south as Kern County in the south San Joaquin Valley.

Another Reclamation job still in the future lies in the central coastal area of the state near Santa Maria. A Reclamation project contemplated here would include Vaquero dam on the Cuyama River. The dam would be an earthfill structure 184 ft. high; the work is estimated to cost \$17,000,000.

The state itself is sponsoring the Feather River Project, which would feature a 3,500,000 acre-foot reservoir on the Feather River. Effecting flood control in its own area, the reservoir behind Oroville Dam would provide water supply for a 567-mi. canal conveying water south as far as San Diego County.

The project has been authorized since 1951 and there have been annual appropriations to continue design and field studies. Most recently bids have been taken in December for additional test hole drilling for exploration of possible locations of tunnels to convey the project water through the Tehachapi Mountains.

Flood control and military work—Corps of Engineers highlights

Linked in purpose with California's Feather River Project and the Bureau of Reclamation Central Valley Project is Folsom Dam, under construction by the Corps of Engineers. The principal purpose of this structure is to control floods on the short, steep, and occasionally very wet American River watershed east of Sacramento. But in an arrangement that was unprecedented at the time of planning and design, the dam has been built to provide power also. Those features have been handled separately by the Bureau of Reclamation under a contract with Guy F. Atkinson Co. In the meantime, construction of the dam itself has continued under Corps administration, with Merritt-Chapman & Scott Corp. and The Savin Construction Corp. holding the prime contract at about \$30,000,000.

It's a long jump from the amount of money available for construction on Folsom Dam down to the next largest item of Corps of Engineer civil works in California. This is the Los Angeles County drainage area where an original appropriation of \$8,500,000 was supplemented with an additional allotment of \$1,200,000 for the current fiscal year. Tied in closely with this work is Whittier Narrows Dam for which \$3,500,000 of additional funds have also been made available.

At Whittier Narrows, A. Teichert & Son and M. J. Bevanda have a continuing contract for \$3,497,000 for construction of the west embankment and outlet works. This work began in April 1954 and is scheduled for completion in October this year.

A long-time dream of many, yet by and large the bane of civil and hydraulic engineers in California, is the proposal for salt water barriers in San Francisco Bay. On any scale at all, one barrier or several, such project would be a virtually unprecedented construction undertaking.

In recent years pressure for a full investigation and utilization of the state's resources — both land and water—has led to state authorization of a study of some phases of the barrier problem. These studies are in process now under the direction of a board of outside engineers headed by Raymond Hill of Los Angeles, and a report is due this spring.

STABILIZING in-place road materials in Contra Costa County utilized such equipment as this Wood mixer. About 3 mi. of two-lane roadway was reconstructed under a \$233,000 contract and completed late in 1954.



Military construction scheduled for this fiscal year by San Francisco District has been pegged at \$20,000,000 by the recently named District Engineer, Col. John A. Graf. Col. Graf further indicated no appreciable slackening in work placement for his office throughout fiscal year 1956. Estimates for the current calendar year for the district comes to \$30,765,000. However, more than \$4,000,000 of this total is for work at Honolulu and Johnston Island, and an additional \$12,072,000 is for San Francisco District work in the states of Utah and Nevada. Thus, California projects account for the remaining figure, \$14,679,000.

The bulk of this work is concentrated at Castle Air Force Base near Merced, where placement is estimated to total \$7,679,000. San Francisco Bay Area work in turn totals \$3,736,000, of which a considerable amount is applicable to NIKE site development.

Military construction in the southern part of the state by the Corps of Engineers is expected to jump from the 1954 figure of \$33,260,000 to about \$51,000,000 in 1955.

Corps of Engineers construction in the inland and northerly portions of California is handled by Sacramento District, which has Folsom Dam as its principal item of civil works. The district also has a current volume of about \$15,500,000 in military construction.

Coming up for early construction are a pair of craft hangars estimated to cost \$2,500,000 each. One is at Mather Air Force Base, the other at Travis. The Mather installation will measure about 250 x 350 ft. in plan, with 60 ft. of height clearance to accommodate B-36 aircraft.

County road system requirements are of staggering proportions

Now for a look at another aspect of work in the state. Despite the staggering expenditures by the state Division of Highways, county road needs continue to be staggering. Last year the Committee on Highways, Streets, and Bridges of the state senate noted that fully one-third of California's 67,000-mi. county road system is in such bad condition that expenditures of over \$561,500,000 would be needed to overcome deficiencies.

Spot checks of a few California counties indicate the magnitude of the efforts presently being made. First, Contra Costa County lying at the northeast side of San Francisco Bay.

Overall volume of the county's program can be measured by contract amounts totaling \$2,350,000 for 1954 and estimated to be \$3,500,000 this year. Projects are financed both from user funds returned by the state and by road bonds within the county. Of the bigger bond projects,



EVEN UNDERGROUND is to be found the popular sign. Los Angeles County Flood Control District has undertaken a \$179,000,000 storm drain system that includes 140 separate projects, such as the one shown here.

two have just been completed and one is just getting under way. The completed contracts totaled \$302,000 and \$440,000. The new work, drainage structures over a 3.1-mi. length, will cost \$330,000.

Geometric and structural design standards for a metropolitan county such as Contra Costa are fairly high, as indicated by a 4.4-mi. job coming up at a cost of \$880,000. Another \$600,000 item in the 1955 budget covers bringing a section of country road to 4-lane standards.

Dollar figures for current fiscal year activity in Sacramento County make a good illustration of the major sources of funds for county roads. According to Arthur L. Kiefer, County Engineer, the current road program will have total expenditures in the neighborhood of \$3,250,000.

The major revenue categories within this total are property taxes, \$877,400; gasoline tax revenues returned by the state, \$1,490,000; and fines, \$328,000.

Carl Lind, Commissioner of Public Works for Fresno County, reports federal aid road construction in the county totaling \$626,800 this year. This work includes four railroad grade crossing jobs totaling nearly \$50,000.

In addition to the federal aid work, county forces are undertaking various road and bridge construction, and drainage and maintenance activities, to the tune of about \$1,200,000.

Federal aid projects in Fresno County for the coming fiscal year so far are estimated to cost about

\$362,000, and continuing force account work should run about \$1,250,000.

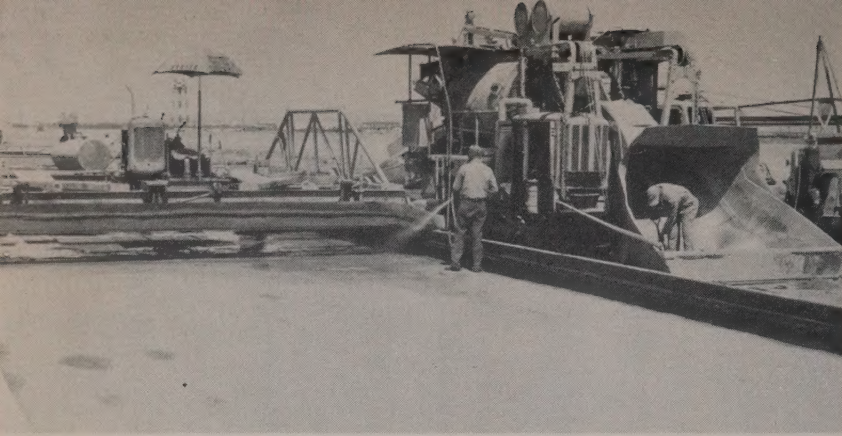
Los Angeles County roads in the midst of freeways

Although his agency is known as a road department, Los Angeles County Road Commissioner Sam Kennedy makes a realistic differentiation between major highway construction and mere county road improvements! This makes good sense in a county that is laced with state freeways and which includes some pretty high standard construction on its own.

One of the main north-south county routes is known as the San Gabriel River Parkway and it is cited by the county as a good example of stage construction. The work began some 4 yr. ago with a bridge across the San Gabriel River. The need for that work can be judged from the fact that it replaced a river crossing which had previously washed out on the occasion of every heavy rain! The bridge was completed in 1952 and a succeeding road contract connecting to it was finished just two years ago.

The second portion of the project is under contract now and is estimated to cost \$890,500. This work includes another bridge across the river and also three smaller bridges over tributary creeks and drainage channels.

For the current fiscal year construction funds totaling about \$4,976,000 are being spent on about 53 mi. of roads, exclusive of right-of-



PAVING of the 15,000-ft. runway at Edwards Air Force Base was one of the large military contracts for 1954. R. A. Westbrook, Morrison-Knudsen Co., Inc., and Ford J. Treatts held the \$7,036,400 contract, now nearly completed.

way and engineering costs. The breakdown includes 16 major road projects costing between \$38,000 and \$464,500, eight bridge approach jobs totaling \$200,000, 17 county road improvement projects in various areas totaling \$1,190,000, and 14 bridge projects totaling \$1,165,000.

Civic progress denoted by a 5-yr. building master plan

A look at what the state itself has proposed for a 5-yr. institutional building program provides a good introduction to a look at the local scene in public and private construction throughout the state. In December 1954 a state governmental construction planning committee recommended a 5-yr. construction program totaling \$459,500,000, primarily for educational, mental, and penal facilities. The committee's report constitutes a master plan that will be submitted to the state legislature this year for appraisal and action.

State facilities such as these are scattered throughout the state—as witness eight campuses for the state university—and contribute markedly to the construction economy of many localities. As an example, a new state hospital in Ukiah, Mendocino County, far to the north, has just been opened at the completion of a 2½-yr. construction period. Cost of this facility was about \$2,270,000.

Civic progress throughout the state has been noted and remarked upon for this review by city engineers, city managers, chamber of commerce officials, public works directors, and commissioners. An initial optimistic note is provided by the Chico Chamber in the Sacramento Valley: "... three major housing projects comprising 1,000 units ... two schools at a combined cost of over \$1,000,000 ... two industrial units (not processing) at a cost of \$500,000."

San Jose, at the base of the San

Francisco peninsula is blessed by a high rate of population and industrial growth, and cursed by poor natural drainage. The year just past has seen continuation of a 7-yr. program of storm and sanitary sewer construction. Two of the projects just completed showed costs of about \$340,000 and \$250,000. Street lighting installations were completed to the tune of \$325,000. Coming up are a sewage disposal plant on which work will begin this spring, also two bridges, a railroad underpass and a health center.

A further look at the volume of activity is provided by building permit figures. The total for 1953 is significant — \$91,170,000, including the \$50,000,000 Ford Motor Company assembly plant. Estimates for 1954, without such a single large contributing item, should be about the same as the previous year. Building permits just after mid-1954 already totaled \$45,000,000.

Individual cities are having a major year in prospect for 1955

Harris Munger, Director of Public Works in Salinas, reports heavy activity last year in subdivision work, including sanitary and storm sewers and street paving. This classification of work alone is in the neighborhood of \$525,000. And the expectation for this year is about the same.

A clue to the future can also be gleaned from statistics on building permit valuations. In the past 8 yr. the range has been between \$1,691,000 and \$6,992,000. These are annual figures. And the trend has been consistently up, with the exception of the past 2 yr. But look at 1954: for only 10 months the total was \$5,113,000 with a single month, June, totaling over \$1,000,000.

A major category of public construction that results from expansion of this type is sanitary and storm sewers. A 3-yr. program beginning last year totals over \$2,000,000, of which some \$270,000 is already complete or under contract. This work

has been supported by approval of a \$990,000 bond issue.

A report on engineering construction from Lodi emphasizes a trend in civic works in California. This is the expenditure of nearly \$200,000 on an interceptor sewer and sewage treatment plant. Part of this work is continuing into 1955. The significance of this work lies in state legislation about 4 yr. ago whereby means and criteria for pollution control were established in connection with the state's water resources. Under the terms of this legislation, California industry and public bodies both are constructing facilities aimed at controlling effluent quality to the degree required in the individual case.

Sewerage is the big thing in public works construction for Modesto. Last year the city built digester and detritor units for the sewage treatment plant at a cost of over \$164,000. Also installed was a sewage lift pump station at a cost of \$47,300 and over 8 mi. of trunk sewer lines, costing \$458,000. Still under construction is 4.8 mi. of trunk sewer worth \$188,500.

This year this program will be continued to the tune of \$875,000 in sewage treatment facilities and \$200,000 for additional trunk lines. At the same time water main extensions worth \$100,000 will be installed and street construction undertaken to the extent of \$90,000.

In the Fresno area both the county and the city governments continue extensive building programs. About 50% complete under a contract held by Midstate and Stolte Construction Co. is a new 4-story, 293-bed hospital that will cost \$1,800,000. Harris Construction Co. has reached the 30% mark on an annex to the County Hall of Records. This is a \$537,000 job. Completed last year by Larsen-Ratto Construction Co. was a new county building at Firebaugh costing \$164,000.

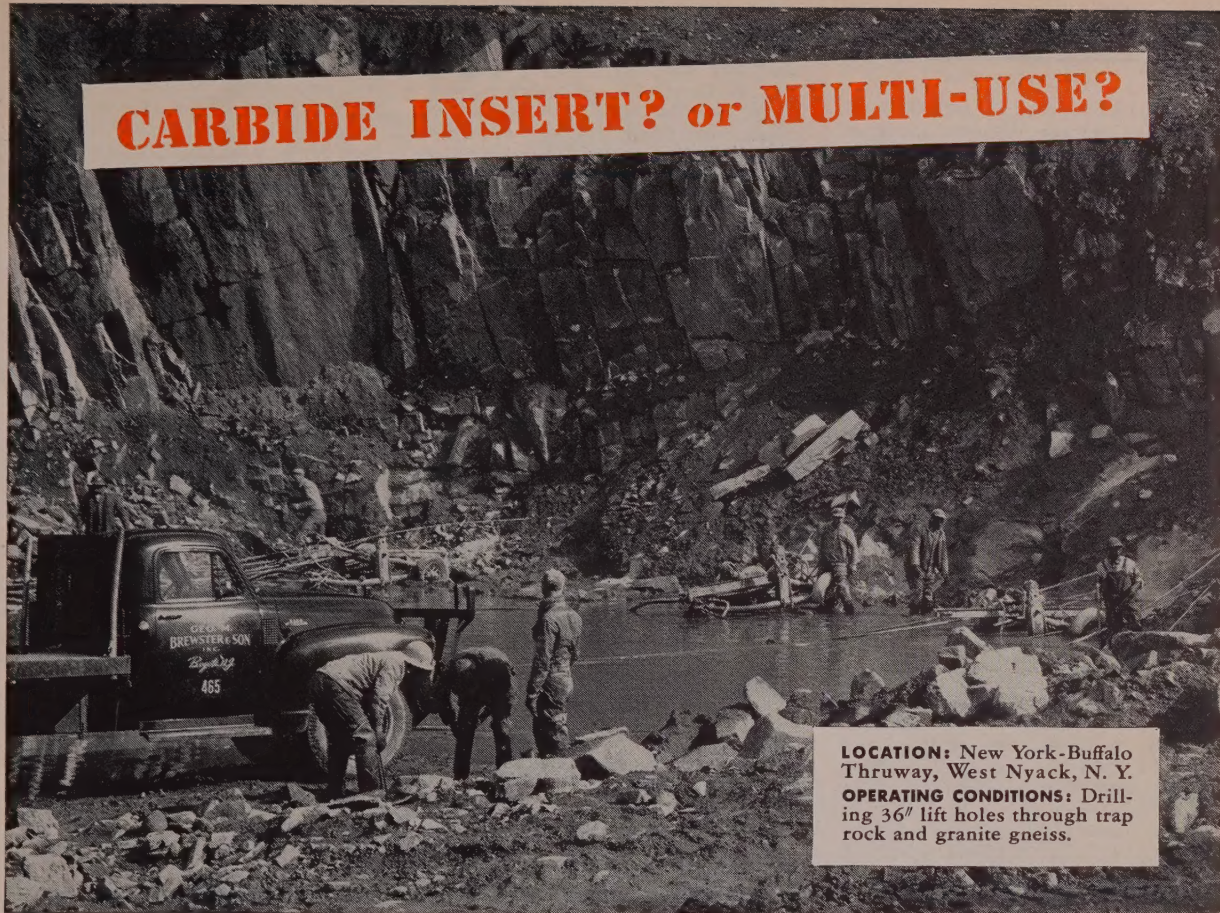
Bids are expected to be taken in the next couple of months for a new library building estimated to cost \$1,650,000. And planning continues for a \$350,000 detention home.

Water supply system improvements estimated to cost over \$430,000 are under way or just completed, including the sinking of five new wells, replacement of motors and pumps, extension of some water mains and replacements of others. Coming up this year, on the basis of present developments, is an anticipated expenditure of another \$250,000 for new water service in subdivisions.

Bond issues will set the pace for Los Angeles public construction

Construction activity in Los Angeles covers a lot of ground! It takes in such things as a new 10-story city health building completed late last year after 2 yr. of work and the expenditure of \$3,700,000. It includes the new police building, also part of the Civic Center cluster of buildings. And it takes in such items for the

CARBIDE INSERT? or MULTI-USE?



LOCATION: New York-Buffalo Thruway, West Nyack, N. Y.
OPERATING CONDITIONS: Drilling 36" lift holes through trap rock and granite gneiss.

Geo. M. Brewster & Son, Inc., Bogota, New Jersey, pushes deep-hole drilling costs down with TIMKEN® carbide insert bits

WAGON-drilling 36-foot lift holes through trap rock and granite gneiss was the job facing Geo. M. Brewster & Son, Inc., on the West Nyack section of the New York-Buffalo Thruway.

As is usual in cases like this, Timken® carbide insert bits proved the most economical. They give highest drilling speeds and lowest cost per foot of hole in extremely hard and abrasive ground—especially where it is otherwise impossible to drill out full increments of steel. They're most economical for small diameter blast holes and constant gage holes, too.

But in ordinary ground, where Timken multi-use bits can drill out full increments of steel, they cut drilling costs even more.

It takes *both* bit types to solve *all* drilling problems. When they're Timken bits, both types are interchangeable on the same steel. It's a quick and simple matter to switch from one type of Timken bit to the other—as quick and simple as taking one bit off the steel and screwing on another. And there are many different sizes and designs of Timken bits in each thread series, to fit all drilling situations.

All Timken bits are made from electric-furnace Timken fine alloy steel. And all have special shoulder unions—a

Timken Company development—that save the threads from drilling impact damage.

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See manufacturer's listing page 48H, Yellow Section

future as a proposed \$45,000,000 bond issue for sewage disposal facilities and a statement of \$16,000,000 in junior college building needs. This last figure on top of a \$100,000,000 bond issue for elementary and secondary schools that will be voted on in April. Construction in the Los Angeles area also takes in the activities of many surrounding towns, among them Burbank, for example. Two short tables tell the story:

| 1954 | |
|----------------------------|-----------|
| Street Construction | \$328,800 |
| Alley Construction | 58,300 |
| Utility Cut Patching | 16,200 |
| Street Maintenance | 312,400 |
| Sewer Construction | 30,000 |
| Sewer Maintenance | 86,300 |
| Total | \$832,000 |

| 1955 | |
|----------------------------|-----------|
| Street Construction | \$360,000 |
| Alley Construction | 65,000 |
| Utility Cut Patching | 18,000 |
| Street Maintenance | 320,000 |
| Sewer Construction | 25,000 |
| Sewer Maintenance | 95,000 |
| Total | \$883,000 |

Progress in the city of Pasadena shows up in a concentration of street department effort on widening of established streets. There has been off season activity in the city's famed Rose Bowl also—\$13,000 worth of seat replacement!

Gardena cites a good example of the residential boom that continues in Southern California. Gardena used

L. A. DEPT. OF WATER & POWER will put nearly \$20-million into water systems in 1955. A glimpse of the agency's work below: 51-in. pipe trunk line being installed under flood control channel in West San Fernando Valley.



to be a small town in the broad plain south of Los Angeles and between that city and San Pedro. Now it is part of the vast Los Angeles "bed-room" and its City Engineer, Harold A. Barnett, reports as follows: "We have had one annexation comprising about 475 acres, which is in process of being developed as a residential and commercial area having approximately 17 mi. of fully improved streets. Actual development is still in planning stage but it is expected to start in the spring of 1955. Approximately 1,500 new homes are planned."

Alhambra reports expected continuation of a \$250,000 annual program of street maintenance and reconstruction. But additional specific projects, including storm drains, this year will total \$1,477,000. When other public works projects are included, the 1954 and 1955 totals come to \$490,000 and \$1,977,000 respectively.

In the case of Long Beach city, dollar figures alone are deceptive. For the fiscal year ended last July, public works expenditures totaled over \$8,977,000. This figure included contracts for equipment purchase, acquisition of right-of-way, and disposition of funds on improvements financed by private interests.

For the current year the grand total figure stands at \$30,127,000. But this includes several very special projects financed from new and different sources. One is the item of storm drains—\$6,537,000 in projects to be done under a Los Angeles County bond issue program. On much of this work plans and specifications are not yet complete, but one unit estimated to cost \$2,800,000 has already been bid.

Hawthorne, Santa Monica, Long Beach: volume same to startling gain

Hawthorne maintains its level of public construction with 1954 and 1955 figures of \$700,000 and \$745,000, respectively. The work runs from street paving to water supply facilities and includes administrative and garage buildings for the city government. A feature of last year's work was hydraulic rotary drilling of a 545-ft. well (30-in. diameter) and installation of a 2,000-gpm. deep well turbine pump. Cathodic protection was provided for both the well and the pump. Four steel tank distribution reservoirs were built, also incorporated cathodic protection, at a cost of \$325,000 by Ameriacn Pipe & Steel Corp. of Norwalk.

Santa Monica shows a startling boost from a 1954 volume of \$1,348,000 to a 1955 estimate of \$3,565,000. A prime target of attention in this city, as in practically all of the Los Angeles metropolitan area, is storm drain construction—\$566,000 last year, \$470,000 coming up.

Another category containing five

projects totaling \$18,000,000 comes under the heading of Tideland Oil Fund Projects. Much of this work will necessarily be done over a period of years. The major items are: an auditorium exhibit and recreation hall, \$5,500,000; improvements to the Alamitos Bay Marina, \$10,000,000; and the new J. H. Davies bridge, \$1,207,000. Construction on this last item has already started.

A heavy program of construction of facilities continues under the sponsorship of the Port of Long Beach, where over \$12,000,000 was spent on design and construction in 1954. The major single items included four new transit sheds, a new pier, a new warehouse, and concrete piers for two new bridges. Dimensions show this program to be on a large scale: one transit shed measures 160x1,167 ft. in plan, the new wharf includes 1,600 reinforced concrete piles.

Projects coming up this year include \$3,000,000 of transit shed construction and the beginning of work on 3 freeway bridge superstructures—two jobs totaling \$12,700,000.

The local angle on water resources: Tri-Dam bids coming

Backing up all this evidence of growth at the local level are extensive programs of resources development on a multi-county—or larger—scale by privately and publicly owned utilities and irrigation districts. One of the largest projects of recent years is the Tri-Dam Project planned for construction on the Stanislaus River by two irrigation districts in the San Joaquin Valley.

A year and a half ago the entire project, estimated to cost over \$48,000,000, was all ready to go; and bids were taken. Rising bond interest rates, however, forced rejection of all bids at that time. Subsequently, efforts have been made to improve the financing. Articles reviewing legislation introduced for this purpose appeared in *Western Construction* last year in the February and May issues.

Present plans are to separate the units of the project and provide the necessary reserves by stage construction, together with other required corrective action. The project sponsors, Oakdale Irrigation District and South San Joaquin Irrigation District, plan to call for bids again this year on the Donnellis and Beardsley units. (When bids were taken the first time, the Donnellis unit totaled about \$16,573,000; the Beardsley unit, about \$7,900,000.)

The biggest item in the current program of United Water Conservation District is construction of Santa Felicia Dam. This project and others proposed by the district are aimed at agricultural water supply development on the Santa Clara River and its tributaries in Ventura County.

Santa Felicia Dam is being built by

The Engineer's Report

CASE HISTORY

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a joint venture consisting of D & H Construction Co., Macco Corp., and M. H. Hasler Construction Co. on a contract of \$3,535,000. The work began last spring and is expected to run throughout the current year.

Flood control on a county basis good for \$22,000,000 per year

In addition to activity by the Corps of Engineers, flood control problems in Los Angeles County are being met by a County Flood Control District. The district is now in the middle of a 5-yr. construction program based on a \$179,000,000 bond issue that was approved 2 yr. ago. The bond issue includes 140 separate projects, of which 16 are expected to be complete by June 1955. Also, bid calls will have been authorized for 36 more. Jobs now complete, under construction, or advertised total more than \$22,000,000 in construction contracts.

The largest single job awarded to date went to a joint venture of E. A. Irish, Johnson-Western Construction Co., and Clyde W. Wood and Sons, Inc. These firms submitted the low bid of \$3,269,700 to construct a storm drain project that will serve five cities in the south-central portion of Los Angeles County. Construction got under way last month.

Other than storm drain work the district has a continuing program of channel improvements, debris basin construction, and spreading ground work. Some 18 projects under way this year account for additional expenditures of \$7,411,000.

Outfalls by the mile mark sanitation district work

Offshore outfall construction is the heavy construction feature of work by the County Sanitation Districts of Los Angeles County. According to A. M. Rawn, Chief Engineer and General Manager, two principal jobs were finished in 1954. The season coming up includes even heavier activity—to a total figure of \$9,400,000. Again, outfalls are the big item. One job includes 7,982 ft. of 90-in. concrete pipe and 2,400 ft. of 60-in. Another job involves 8,400 ft. of 12-ft. diameter concrete lined tunnel in rock. Work is just getting under way on this one.

Also under way is a 7,700-lin. ft. project involving 60-in. diameter sand tunnel with reinforced concrete pipe lining. And coming up this year, with bids opened last month, is another 7,200 ft. section of outfall.

Expansion of facilities marks the construction program of the Metropolitan Water District of Southern California. Construction project expenditures are estimated at \$23,000,000 for the current fiscal year, and the same level is expected to apply for the year coming up.

Funds already expended on com-

pleted work in the first six months of the fiscal year total a little over \$4,000,000. This work included the 1,500-acre-foot Garvey Reservoir, asphalt slope paving of which was reviewed in *Western Construction* in November 1954.

Pumping plant expansion on the Colorado River Aqueduct, 48- to 108-in. pipeline construction, and tunnel excavation are expected to cost about \$15,500,000 this year. Work on these same projects will continue into the coming fiscal year and the eventual cost will be around \$33,000,000.

Three electric power utilities spend \$280,000,000 in one year

Continuing a postwar expansion of facilities that has already seen generating capacity doubled, Pacific Gas & Electric Co. completed work on three projects in 1954, and just these three projects represented total investments of nearly \$100,000,000. They included the \$75,000,000 steam plant at Pittsburg, looping—the addition of 200 mi. of parallel line—of the Super-Inch natural gas pipe line from Needles at a cost of \$19,000,000, and construction of transmission lines for the Pittsburg plant at a cost of \$5,000,000. Work continued during the year on two more widely separated steam plants, the \$8,500,000 installation at Humboldt Bay and the \$44,000,000 installation at Morro Bay.

Coming up this year are the first steps on the King's River project. Commencement of the work depends primarily on establishment of final agreements with downstream water users. The ultimate \$80,000,000 project will include construction of 3 hydro plants and enlargement of a fourth, and will include the construction of 2 rockfill dams.

The Poe hydroelectric project on the Feather River will get well under way this year also. Early construction has already begun in the form of two bridges required for access to the powerhouse and the upstream adit of the tunnel.

Altogether, P. G. & E. has just wound up a year that saw total construction expenditures of about \$170,000,000. The rate should be a little bit lower for 1955, with fewer complications scheduled.

In the southern part of the state Southern California Edison Co. spent \$75,000,000 on plant construction in 1954. This company expects spending in 1955 to be about the same. The focus of activity presently is on the new El Segundo steam plant, which is scheduled for operation in July of this year. Completion by September 1956 will bring the total cost to an estimated \$46,000,000.

A late development in the company's planning for 1955 is an immediate start on the first \$24,000,000 unit of a steam plant east of Long Beach on Alamitos Bay. Like its predecessor plants, this one will be

built around a 156,000-kw. generating unit, with provision for the eventual installation of three more.

Additional power generating facilities are being developed in Southern California under the auspices of the Department of Water and Power of the City of Los Angeles. Power system construction during the recently completed fiscal year totaled \$54,997,000, a record for the system. But the investment during the current year is already estimated to be \$60,881,000.

Steam construction contemplated includes a new plant at Hyperion, west of Los Angeles, and one near Long Beach. The estimated cost of the first two units of Hyperion is \$50,000,000. The Long Beach plant has a tentative price tag of \$85,000,000.

Water system construction by the same agency during the last fiscal year totaled about \$15,770,000. And expenditures this year are up to \$19,357,000. These expenditures are well scattered throughout the department's distribution system. Work starting this year includes a 19,769-ft. trunk line project composed of 48-in. welded steel and reinforced concrete pipe. A \$1,334,000 contract for the improvement of a reservoir in the western section of the city has been awarded with the work scheduled for completion by January of 1956. Total cost of this project will eventually run to about \$4,000,000.

And so the dollar figures for construction activity in California roll on, from the thousands to the hundred thousands to the millions and the hundreds of millions. Roads and streets, water and power, homes, commerce and industry for a population that is increasing at the rate of 1,000 per day. The major cities of the state are clogged and congested with traffic—and smog!—but the development continues. California is Western construction with its best foot forward.

1954's BIG ONES IN CALIFORNIA

J. C. Boesflug Construction Co. of Los Angeles, construction of the Westchester High School in Los Angeles—\$4,213,000.

Fred J. Early Jr. Co., Inc., of Torrance, construction of runway and taxiway for Lockheed Aircraft Corp. at Palmdale—\$2,977,000.

Fredrickson & Watson Construction Co. and **M & K Corp.** of Oakland, 4.8 mi. grading and paving on 6-lane freeway on US 40 in Contra Costa County—\$5,107,882.

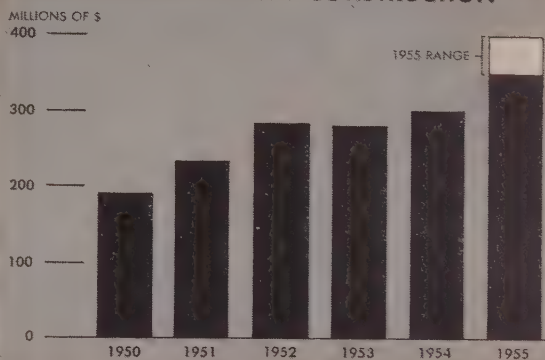
A. Teichert & Son, Inc. of Sacramento, construction of west embankment and outlet work on the Whittier Narrows flood control basin—\$3,088,946.

Vinnell Co., Inc., of Alhambra, construction of pipelines for the Metropolitan Water District—\$2,632,700.

COLORADO

"Denver" is the word in this state! Ninth in the nation in metropolitan building, and it's still going up. Employment on Air Force Academy construction to reach 500 this year, 10 times that figure in '56. AEC is starting \$7,000,000 center at Grand Junction, and uranium takes over the plateau. Highway contractors eye a state program of \$27,500,000 this year. Let's look at that first . . .

COLORADO HEAVY CONSTRUCTION



FISCAL VERSUS calendar year accounting can be complicated, but Colorado has prepared for us on a calendar basis what the highway construction picture will be for 1955 even though they are now on a fiscal basis.

For 1954. By the end of October, 104 projects had been placed under contract at a cost of \$15,569,000 covering 480 mi. By the first of 1955, another 23 projects covering an additional 117 mi, and costing \$8,000,000 will have been awarded. This will bring the total up to 597 mi, costing \$23,569,000 for calendar 1954.

For 1955, funds available for construction will be about \$27,500,000—the largest sum on record. This amount of money would come from these sources: (a) \$9,000,000 carry-over into 1955 from money not used in 1954, (b) half of the estimated 1955 fiscal budget of \$29,000,000 that would start July 1, 1955, and (c) to this may be added some part of \$8,000,000 that would also be available after July 1.

Bonds for roadbuilding, but what about federal plans?

The last item results from an approval by the voters in November of 1954 of a highway anticipation warrant program of \$35,000,000. This issue provides that not more than \$8,000,000 in bonds may be sold in any one year. If the Highway Commission approves the use of half of this amount for the second half of 1955, then the budget for construction would be \$27,500,000 as noted earlier. If the Commission approves that the entire \$8,000,000 be made available, then the budget could reach the tremendous sum of \$31,500,000 for construction alone.

If the \$50,000,000 national program carries, Colorado can expect to obtain \$50,000,000 a year in federal aid funds. It would mean that this \$50,000,000, plus \$25,000,000 in state revenue, plus \$8,000,000 from the antici-

pation warrants, would give the Colorado Highway Department a total regular budget of \$83,000,000.

The department will readily admit that such a program is above their present manpower capacity to handle. The staff of design office engineers and field engineers would have to be increased by 100% or 150 and 180 men respectively. In addition, from 25 to 35% of the designing would be turned over to consulting engineers.

On the bright side of the picture are these outstanding facts about the Colorado highway picture. The Department won the Golden Milestone Award from the National Highway Users Conference for its Highway Sufficiency Rating Study. Such a study enables them to establish priorities on every section of the state highway system of approximately 8,000 mi. This assures that highway appropriations are being spent wisely where they are needed most.

As to obtaining more engineering personnel for an expanded program, Colorado revised its entire engineering pay scale upward in 1950 and has had no trouble in recruitment of qualified help.

On the construction side, no shortage in materials, such as cement, asphalt, structural steel, gravel, or construction equipment is anticipated. The construction industry in Colorado should be able to expand within a reasonable time to handle the additional load.

Prestressed concrete coming in structures, rubber roads tried

Colorado has on the drafting table its first two proposed prestressed concrete structures. One would be on the Evans-to-Gilcrest section and the other on the Fort Morgan to Wiggins Junction section.

In September 1954 the department's first latex-asphalt (rubberized asphalt) seal coat test section was

placed. This was a 14,000-ft. section south of Meeker on SH 13 with work performed by Alger Construction Co.

In October 1954 occurred the first trial project where embankments and basement soils in cut section are to be constructed with an in-place density specification at a unit price per cu. yd. for excavation. Northwestern Engineering Co. received the award on this 6.3-mi. project on SH 185, Denver to Broomfield Jct. This means that the method of work and type of equipment is not specified for the contractor; all the department wants is the end result in earthwork density. It is an interesting departure from previous methods and will allow the contractor greater freedom of choice on methods.

Colorado's maintenance budget took a \$3,000,000 jump from \$4,800,000 in 1953 to \$7,800,000 in 1954. Chief reason for this is that 4,000 mi. of additional road was added to the state road system that formerly had been under the county secondary system.

Kiewit puts 4 lanes through Denver, at \$500,000 per mile

Peter Kiewit Sons' Co. of Denver was awarded an \$847,445 contract on July 14 for grading, drainage, and plant-mixed paving of 2 mi. of the Denver Valley Highway from South Colorado Blvd. to Emerson Street. This project provides for a 4-lane freeway, depressed over most of its length, to go under three street bridges and over a traffic interchange. All structures were built under previous contracts. Total cost of the Kiewit contract to the state was \$1,043,654 including right-of-way.

One of the largest and most important contracts in recent years on the Federal Interstate System was an award of \$710,201 to the Henry Shore Co. of Littleton. This project provided for 5.5 mi. more of 4-lane highway through and to the north of Castle Rock on US 85-87. This is the state's major north-south route.

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Rated capacity _____ 1 1/4
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 Weight, complete _____ 16,200
 Dumping height _____ 9 ft.

From the time of its introduction seven years ago, the Allis-Chalmers HD-5G Tractor Shovel has been tops in popularity. Many thousands are daily proving their ability and versatility on all kinds of material handling and excavating jobs.

Now, design refinements make the HD-5G a three-way better value than ever before:

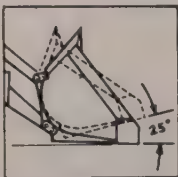
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New bucket handles a big 1 1/4-yd load — streamlined design now helps roll in large loads with less tractor effort. The back of the bucket has been brought forward and the sides extended to cut spillage, put more payload where it's wanted.

2. Helps the Operator Do More

Cleaner dumping with the new bucket saves the operator time and effort shaking out loads.

For added versatility, there is a two-position bucket available with both standard automatic return to digging position and operator-controlled tip-back. If the operator chooses to use the controlled tip-back, he can load the bucket, then tip it back approximately 25° before raising, assuring maximum output under special conditions such as downhill loading or loading loose materials.

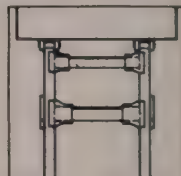


The HD-5G helps the operator do more in other ways, too — giving him full vision, fast and easy control, cleaner platform and more comfortable seat from

which to work, and more working time with truck wheels, support rollers and idlers that need greasing only once every 1,000 hours.

3. Works at Lower Cost

The HD-5G now works at even lower cost than ever before — not just because it *does more*, but because it has features that mean *less maintenance, longer life*. For instance, new type tubular bracing on the bucket booms provides added strength and support, keeps the bucket in line. The floor at the rear of the new bucket has been raised seven degrees to reduce wear on the bottom sheet. Heavy-duty truck wheels and idlers are available for particularly tough working conditions. One-piece, full-length main frame permits unit construction so that major assemblies can be removed without disturbing adjacent units, putting tractor back on the job in hours rather than days.



Ten Quick-Change Attachments Add to HD-5G Versatility

| | | |
|---------------|-----------------------|----------------------------|
| Bulldozer | Crane Hook | Tine Fork |
| Angledozer | Light Material Bucket | Rock Fork |
| Narrow Bucket | Trench Hoe | — also rear-mounted Ripper |
| Rock Bucket | Lift Fork | |

SEE YOUR

ALLIS-CHALMERS

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 NORTHERN CALIFORNIA
 Buran Equipment Company—
 Oakland and Santa Clara
 Atkins Tractor Co.—Eureka and Willis
 Moore Equipment Co., Inc.—
 Stockton, N. Sacramento, Redding and Fresno
 SOUTHERN CALIFORNIA
 San Joaquin Tractor Co.—Bakersfield
 Shaw Sales & Service Co.—
 Los Angeles and San Diego

IDAHO
 Southern Idaho Equipment Co.—Idaho Falls and Boise
 MONTANA
 Mountain Tractor Company—Missoula
 Richland Machinery Company—Sidney
 Seitz Machinery Company, Inc.—
 Billings and Great Falls
 NEVADA
 A-D Machinery Company, Inc.—Elko
 Moore Equipment Company—Reno
 OREGON
 Pope Brothers—Eugene, Roseburg and North Bend

OREGON
 Dielschneider Tractor Company—The Dallas
 Haupt Tractor Company—Medford
 Wood Tractor Company—Portland
 UTAH
 Cate Equipment Company, Inc.—Salt Lake City
 WASHINGTON
 A. H. Cox & Company—Seattle, Tacoma
 American Machine Company—Spokane
 Mid-State Equipment Company—Wenatchee, Wash.
 WYOMING
 Studer Tractor & Equipment Company—Casper

See manufacturer's listing page 4H, Yellow Section

Approximately \$95,000 of the estimated \$1,005,043 total cost, represents the cost of right-of-way, principally through Castle Rock. Construction items include 980,000 cu. yd. of excavation and 1,350,000 lb. of reinforcing and structural steel.

"Completion of this project has been a major goal of the Department of Highways for several years," Mark U. Watrous, State Highway Engineer, said. "The old road through Castle Rock has been one of the worst bottlenecks on the route between Denver and Colorado Springs, and we will be glad when it is eliminated. When this project is finished, the only portions remaining as 2-lane roads between Denver and Colorado Springs will be about 10 mi. between Denver and Castle Rock and 12 mi. between Larkspur and Monument. Four lanes already are provided on ascending grades between Denver and Castle Rock, and three lanes on similar grades between Larkspur and Monument.

The Highway Department is also studying a new site near Berthoud pass for a highway toll tunnel under the Continental Divide. The new site, the fifth to be investigated by the department in the last 2 yr., would cut through the mountains west of Berthoud pass at an elevation of 10,700 ft. Elevation of the pass itself is 11,314 ft.

A pass at the Straight Creek site was recommended by out-of-state engineers a year ago and was authorized by the 1954 state legislature. This project has been discarded for the time being because it is impossible to finance it from toll revenues and a state subsidy which was limited by the lawmakers to 30%.

Other routes which had been under consideration included the old pioneer Loveland tunnel bore, the Devil's Thumb site west of Boulder and Nederland and Jones passes near Berthoud.

Skyscrapers in the mile-high city: 12- and 14-story jobs start in '55

For a population of 685,000 within the metropolitan area, Denver ranked ninth in the nation (though only 27th in size) for the dollar volume of construction during 1954. The year 1953 saw a high mark of \$150,000,000 in new construction in the four-county metropolitan area. The first 10 months of 1954 saw this figure exceeded by five millions with expectations that it would reach \$175-180 million by the end of the year. What accounts for this phenomenal size construction figure?

Such factors as uranium, oil, gas, warehousing, plus people and scenery account for this growth. Considered in more detail, here are some of the accomplishments.

Installation of curb, gutter, with grading, base course, and asphaltic



PRESTRESSED CONCRETE is on its way for Denver city structures. Here's one of 24 girders making up the Mississippi Avenue bridge. C. M. Hanes held the \$127,450 general contract.

concrete paving came to \$1,250,000 within the street paving districts of Denver in 1954. Installation of sanitary sewers amounted to another \$580,000.

Work tentatively scheduled for 1955 by the city amounts to almost \$6,000,000 for street improvements, sewers, and public buildings. With the traffic situation rapidly becoming acute, many millions must be spent to relieve congestion and move traffic. Conceivably, a start on this program could be made next year.

Of particular interest in accomplishments by the city in 1954 was construction of the first prestressed concrete bridge in the Rocky Mountain area. According to Dewey Wright, city engineer, the main section of the bridge contains 24 prestressed concrete girders, each 50 ft. long and weighing 40,000 lb. It was built by the C. M. Hanes Construction Co. at a cost of \$127,450.

Recently completed on the Denver skyline were the 23-story Denver Club with Mead & Mount the general contractor, and the 23-story Mile High Center for which the George A. Fuller Co. is co-developer of the project with Webb & Knapp, Inc. Underway is the 14-story Petroleum Club Building being constructed by N. G. Petry Construction Co. Three off-street parking structures were built by the city for \$2,500,000.

One of the bigger plans in the near future is for Webb & Knapp, Inc.'s proposed Courthouse Square development. Approval by the voters of under-the-street parking areas, makes this \$28,000,000 hotel and store project that much closer to reality. Plans have also been announced for a

12-story, \$4,000,000 Polo Club apartment. Final contracts with the Grimshaw Construction Co. of Oklahoma have been signed for its construction.

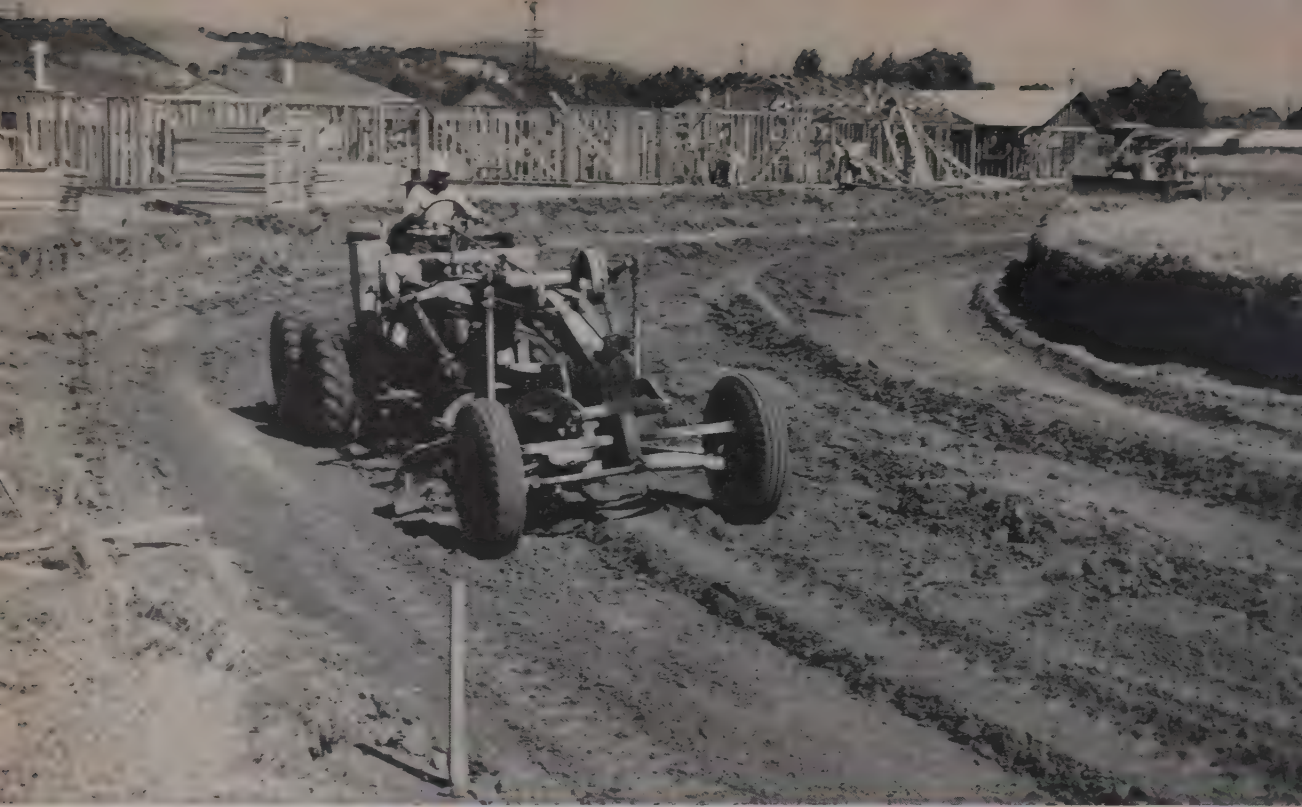
People move in, and suburbs build to a tune of \$80,000,000

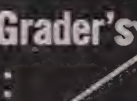
There is a huge volume of residential building in Denver. In most instances the large subdividers are required to construct all public improvements within their development. The design and construction supervision is handled by the City Engineer's office. In the way of utilities in 1954, subdividers constructed about 24 mi. of street improvements including curb and gutter, base course, drainage and paving, and about 19 mi. of sanitary sewer. This will amount in dollar volume to about \$1,750,000 for streets and \$400,000 for sanitary sewers.

Denver's rapidly expanding suburbs accounted for \$66,000,000 for the first nine months of 1954—exceeding the previous year's total record. Typical of this is the Western Hills housing development 2 mi. north of Denver. Over 1,218 acres will be developed. An estimated 200 carpenters were on the job in November 1954 with doubling that amount anticipated at full swing.

Water supply is one of the bigger problems faced by Denver. The city's newest project, Boulder Creek Dam 22 neared completion in 1954. Costing about \$12,000,000, the structure is 390 ft. high, and contains 600,000 cu. yd. of concrete, the largest concrete dam in Colorado.

However, Denver was dealt a surprising blow by the state supreme



Typical on-the-job
summary of a
CAT* Motor Grader's
performance: 

"MOST WORK... LEAST COST!"

THIS Cat No. 112 Motor Grader is building about 2½ miles of streets in a subdivision of Napa, Calif. Foreman A. B. Gerding of the A. C. Raisch Co. sums up its performance as follows: "There just isn't any other equipment but Caterpillar-built equipment for contractors. They do the most work for the least cost."

That's a typical report on Cat Motor Graders on all kinds of road construction, from suburban streets to cross-country highways. In three sizes of varying horsepower, they meet *all* job requirements. Each model is engineered to outwork and outlast any other unit in its power class. Here are some reasons why they'll give you superior performance: The only motor graders built by one company, their power is *balanced* to weight and working speeds for maximum production. Their Caterpillar Diesel Engines use low-cost No. 2 furnace oil without *fouling* for a three-way saving—cheaper fuel, less of it and less maintenance. And their efficiency is increased by many features. For example, the engine can be started from the cab. Visibility is excellent—sitting down, the operator has an unobstructed view of

the blade and the job. Anti-coast brakes prevent "creeping"—the blade stays where he puts it. Blade-positioning is fast—less than a minute for most positioning without leaving the platform!

How do these money-making machines stand up? Here's a clue: 99% of all rugged yellow motor graders ever built are still in use! Get the complete picture from your Caterpillar Dealer, nearby for information, for service. Name the date—he'll demonstrate!

Caterpillar Tractor Co., San Leandro, Cal.; Peoria, Ill., U. S. A.

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**99% OF ALL CAT
MOTOR GRADERS EVER
BUILT ARE STILL IN USE**

court when a vote of 4 to 3 denied them 1,600 sec. ft. from the Blue River. The city's priority date was moved from 1927 up to 1946 with a reduction to 788 sec. ft. of water. There was the possibility that Del E. Webb might drop plans for a 6,000-home, \$100,000,000 development because of the ruling. The same decision affects Colorado Springs and the Air Force Academy development.

Boulder builds: "Total for 1954 stands at an all-time high"

Boulder city's major construction during 1954 centered on completion of a \$2,000,000 bond issue passed in 1953 for expansion of the water supply and distribution system. Construction was started in April 1954 on an 8,000,000-cu. yd., 40-ft. high rolled earth-fill dam. Colorado Constructors were low bidders at \$773,861 and were 85% complete on October 1. Water to be stored behind this dam (12,000 ac. ft.) will be obtained from the Bureau of Reclamation's Big Thompson Project.

Another interesting project is being built by the John H. Keller Construction Co. of Denver. This is a 10-, 000,000-gal. cut and fill, concrete lined reservoir for the city of Boulder. To insure water tightness, a rubber membrane was laid on top of the first 4-in. course of concrete. This was followed by a 2-in. slab. Footings and stubbed columns have been poured beneath the 4-in. slab for use in the future should it be necessary to cover the reservoir.

Extensive work has been done by city forces and by local contractors in enlarging the water distribution system. Only large construction project planned by the city in 1955 will be the enlarging of the storage capacity of the reservoirs in the mountain watershed and perhaps the installation next year of several miles of storm sewer.

Largest building contract in Boulder in 1954 was the \$4,500,000 radio laboratory for the National Bureau of Standards. Now under construction and to be completed in 1955 are \$3,000,000 of dormitories and other college buildings at the University of Colorado. Scheduled to start in 1955 is a \$1,000,000, 8-story office building and a \$4,500,000 hotel and shopping center. Mead & Mount Construction Co. are slated to build the latter.

Population pressures are no less in Boulder than in Denver. According to University of Colorado officials at least \$8,500,000 should be spent to provide new buildings and facilities at the campus during the next 10 years. Total construction activity for the year 1954 stands at an all time high.

At Colorado Springs, the much discussed and hassled over Air Force Academy is the big construction project for 1955. To temporarily handle housing, Wilson & Co., architect-engineers, were retained to prepare plans for Air Force Academy quarters at nearby Lowry Field. This work included remodeling of some 60 buildings at an estimated cost of \$1,300,000 and is due for completion by June 1955.

Skidmore, Owings and Merrill, architect-engineers for the permanent installation, have opened offices in Colorado Springs. Associated with them will be Moran, Proctor, Mueser and Rutledge; Syska and Hennessy, Inc.; and Roberts and Co. to handle specific phases of the work. Planning is still in the very early stages on this 15,000-acre, \$126,000,000 project. It is planned that initial construction on roads, utilities, and runway facilities will begin in the late spring this year. About 500 contractors' workers will probably be on the job by this July with close to 5,000 by the fall of 1956.

Are you a prospective bidder? Then write a letter to . . .

The Air Force Academy Construction Agency under the U. S. Air Force is now supervising the overall problems of land acquisition, topographic surveying, and other problems. Contractors can write to this agency at Colorado Springs for information regarding invitations to bid on the construction. The project should be completed by mid-1957.

Other construction projects in this area include permanent type barracks at Fort Carson as well as family dwellings for Ent Air Force Base. Home building in Colorado Springs in 1954 was double that of 1953. It is anticipated that this heavy building will continue through 1955 and on into the later years.

A look at other Colorado cities shows these interesting facts. At Grand Junction an ambitious project to provide a center for the uranium and oil industries is due to start in 1955. The \$7,225,000 energy center to cover 640 acres is planned for completion by 1960. The center will provide business, living, entertainment, shopping, and research space for these energy businesses. The exact site has not yet been announced by its promoters.

In progress at the present time at Grand Junction is a high school project at an estimated cost of over \$2,000,000. Near there, the Climax Uranium Co. is doubling their mill output with a million dollar arrangement with the AEC.

At Leadville, the mining industry is again causing a large construction boom. Increasing population and payrolls are resulting in new homes and downtown business buildings.

Pueblo is looking to a boom year in 1955, with \$20,000,000 worth of projects already certain. The city's voters approved a \$5,500,000 school bond issue. Some \$6,000,000 is already set for new subdivisions and two supermarkets. Corwin Hospital will get a \$7,000,000 addition. More than \$5,000,000 will be spent for extension of water systems, and three million-dollar private stores will be built.

With completion in 1954 of Flat-iron No. 3 Power and Pumping Plant and a 13-mi. section of the Boulder Creek Supply Canal, virtually all major construction on the Colorado-Big Thompson Project is finished. The power plant houses two 31,500-kw. generators and one reversible pump-turbine unit of 8,500-kw. capacity.

Development of this transmountain diversion project, under way since 1938 at a cost of \$160,000,000, is essentially completed, to provide a supplemental water supply from the Colorado River on the western slope of the Rocky Mountains for 615,000 acres of irrigable land in north-eastern Colorado. Main feature of the project is the Alva B. Adams tunnel, which carries western slope water from Grand Lake 13 mi. through the Continental Divide to Estes Park.

Southern Colorado Power Co. completed 34 mi. of 115-kv., H-frame transmission line between Pueblo and Canon City in 1954. This includes switch structures at each end, and a 12,500-kva. transformer installation at the Canon City end.

Foundation work has been started on a 16,500-kva. generating unit at Canon City to be completed in 1955 at a cost of about \$3,000,000. Also planned for 1955 is a 65-mi., 115-kv., H-frame transmission line from Pueblo to La Junta with substations at each end. Cost here will be about \$2,000,000.

1954's BIG ONES IN COLORADO

Hoskinson Bros. Construction Co. of Denver, housing development on a 70-acre tract in Arvada—\$4,000,000.

Mead & Mount Construction Co. of Denver, construction of a 6-story library and auditorium building in Denver—\$1,587,000.

Colorado Constructors, Inc., of Denver, construction of Twin Lakes Reservoir for the City of Boulder—\$773,861.

Domenic Leone Construction Co., Inc., of Trinidad, 4.1 mi. of grading and paving in El Paso County—\$519,075.

Gardner Construction Co. of Glenwood Springs, construction of a large fish hatchery building and related works at Rifle—\$925,313.

Chesapeake Bay Bridge Gets Concrete Pavement Made With New **LIGHTWEIGHT SOLITE**



Photographed on the job—Bremo Bluff, Va.

and 4 SECO SCREENS Help Make This Popular Product

This month your Seco on-the-job reporter salutes The Southern Lightweight Aggregate Corp. of Bremo Bluff, Va., makers of Solite. This wonderful new manufactured aggregate was chosen for the surfacing of the new Chesapeake Bay Bridge because it combines great strength with a great saving in weight. For this reason, also, Solite was used to resurface the roof of the Capitol in Washington, D. C.

We at Seco are proud that the makers of Solite have chosen four Seco vibrating screens to play an important part in the production of this excellent product.

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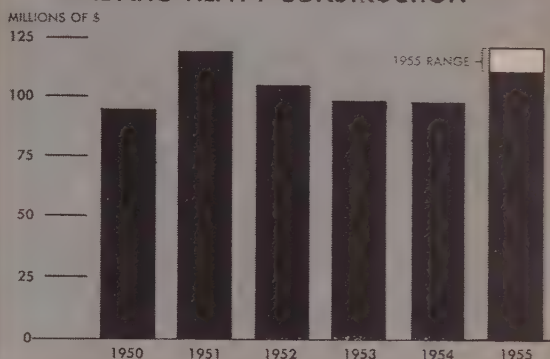
See manufacturer's listing page 45H, Yellow Section

WESTERN CONSTRUCTION — January 1955

IDAHO

Large scale hydro power projects in the wind along the Snake and Clearwater rivers, plus a record state highway program, will boost Idaho construction in 1955 and later. Highlights of 1954: completion of field work on WASHO test road; longest precast concrete bridge at Sandpoint; tremendous boost in Boise building activity. More irrigation and atomic energy jobs are possibilities.

IDAHO HEAVY CONSTRUCTION



CONTINUED CONTROVERSY over the power development program on the Snake River, a full season of work on Palisades Dam and the conclusion of the WASHO Test Road field work were highlights of 1954 engineering and construction activity in Idaho. Looking into 1955, the increase in the state highway program will represent construction activity at a rate higher than any previous year. Construction of Lucky Peak Dam on the Boise River was practically completed during the past year by the Corps of Engineers.

Among the construction "firsts" in Idaho during the past year was the use of cement-stabilized base for a section of road in Bannock County and the use of prestressed concrete in the construction of a school building in Boise. Evidence of industrial expansion in the state for 1955 comes from the announcement that a \$3,000,000 plant will be built in southeastern Idaho to manufacture fertilizer from the extensive phosphate beds in that area.

Hells Canyon Dam controversy on the Snake River—no solution yet

Tangible progress towards the development of hydroelectric power in the Hells Canyon section of the Snake River, where it forms the boundary between Idaho and Oregon, failed to develop during 1954 although the controversy between federal and private plans remained in the news most of the year. As the year closed, the possibility of private power development, as proposed by the Idaho Power Co. moved one tangible step further when the legal department of the Federal Power Commission, late in November, recommended in favor of this program. The power company would develop 3 damsites in the Hells Canyon sec-

tion of the river as compared to the single Hells Canyon Dam proposed and sponsored by the Bureau of Reclamation. Cost of the private company program has been estimated at nearly \$135,000,000 which compares to an overall cost of \$400,000,000 for the federal project. Public benefits resulting from the single or multi-stage development program remain matters of opinion and conflicting testimony. One advantage of the multi-unit program, according to its sponsors, would be the more rapid production of power which is badly needed in the Northwest.

In the meantime, the development of hydroelectric power along the Snake River received further impetus when the Pacific Northwest Power Co. of Portland filed an application with the Federal Power Commission for the development of the Mountain Sheep and Pleasant Valley sites that would provide 850,000 kw. of generating capacity. This power company includes the Montana Power Co., the Washington Water Power Co., Pacific Power & Light Co. and the Portland General Electric Co. These damsites have already been proposed for federal development by both the Bureau of Reclamation and the Corps of Engineers. The upper dam at Pleasant Valley would provide a reservoir which would extend upstream about 35 mi. to the proposed damsite in Hells Canyon.

The other outstanding proposal for large scale hydroelectric power in Idaho is the plan for building two dams on the Clearwater River in the northern part of the state. Again, a group of private power companies have organized to carry out preliminary studies that could ultimately represent a \$300,000,000 development program providing more than 500,000 kw. of installed capacity. These sites had previously been included in the overall Columbia River program by the Corps of Engineers. The develop-

ment of storage and power on the Clearwater River by this agency, at the same locations proposed by the private power group, would consist of a 570-ft. dam at Bruces Eddy with a 240,000-kw. power plant installation and a 590-ft. dam at Penny Cliffs where the power installation would have a capacity of 290,000 kw.

Biggest year in state road construction coming up—more federal aid

Highway construction during 1955 by the Idaho State Highway Department will exceed the volume in any previous year. On the state primary system 43 projects have been indicated for the coming season which will represent an estimated cost of slightly more than \$15,000,000. The overall state budget for 1955 will represent an expenditure reaching nearly 2/3 of the combined budgets for the three-year period starting June 1951 and ending July 1954. Selection of the projects to be undertaken, according to E. V. Miller, State Highway Engineer, has been based on reports from sufficiency rating studies followed by actual inspection of the proposed projects by the state highway engineer and the members of the Board of Highway Directors.

Work on the primary system will include improvement of 197-mi. of highway and 22 bridges, while the secondary system program will include projects totaling 146 mi. and 12 bridges. The projects include nearly every highway route within the state.

These proposed expenditures for the 1955 highway construction program in Idaho represent a total which actually exceeds the anticipated revenues. However, the Board points out that there are always delays in getting projects started which reduce planned expenditures for any one year. The size of the 1955 program was made possible because of the in-



COMPLETION of outlet and power tunnels, and stilling basin at Palisades Dam permitted first use of these facilities for river diversion during 1954. Functional completion is

expected late in 1956 with work now 65% complete. River flow is being discharged through outlet tunnel, left, and the power tunnel, right. (Bureau of Reclamation photo.)

crease in federal aid funds which will be available to Idaho during 1955. If the state is to match all available federal aid and highway money increased state revenues will be required.

During 1954 the field work was completed on the WASHO Test Road located near Malad in the southeastern part of Idaho. This comprehensive study of different thicknesses of bituminous surfacing supported on varying depths of base material was sponsored by the Western Association of State Highway Officials and other cooperating agencies. Starting late in 1953 and completed during 1954, the Highway Research Board, which has been in charge of the project, applied 238,000 heavy axle loads to each of the test pavements. Following the completion of the truck runs detail studies have been made of the surfacing and base courses down to the sub-soil. The final report, which is expected to provide valuable material on the design of bituminous pavements and their effect under heavy truck loadings will be published by the Highway Research Board during this year.

Precast concrete bridge at Sandpoint a Western engineering highlight

One of the largest building jobs in this state will be the \$4,000,000 project for housing at the Mountain Home Air Force Base.

Growth in the city of Soda Springs, which has resulted in a power demand four times the requirements of 1945, has resulted in decision to construct a new power plant on Soda Creek for a cost of \$125,000.

Construction of the 6,000-ft. trestle bridge project across Lake Oreille at Sandpoint moved fast during 1954. Engineering studies on the project were reviewed in detail in **Western Construction** June 1954 and construction operations on the trestle spans were described in detail in **Western Construction** December 1954. The contract amounts to \$1,135,000 for this important link on U. S. Highways 2, 10-A and 95.

Continued expansion coming for irrigation, municipal construction

A \$4,600,000 irrigation project at Michaud Flats has been recommended favorably by the Bureau of Reclamation. The plan would provide irrigation for 11,000 acres of land along the south side of the Snake River by means of diversion from the American Falls reservoir supplemented by pumping groundwater from 25 wells.

Expansion continues at the National Reactor Testing Station including a wide variety of work under contracts active during 1954 which included buildings and assembly and maintenance facilities in the initial engine test area.

This spring the Bureau of Reclamation announces that start will be made on the 71-mi. transmission line of 115-kv. capacity to extend from the Palisades Dam project to the Goshen substation of the Idaho Power Co. Work will continue on this largest earthfill dam to be built by the Bureau of Reclamation, which was about 65% completed by the end of last year. Work will continue during this year on the powerhouse for the

project and the relocation of roads around the damsite.

The level of municipal construction activity in Idaho was indicated by figures announced late last year in Boise. Comparison of November records for both 1953 and 1954 showed a sharp rise: 24 buildings under way valued at over \$577,000 in November 1954; 11 at \$68,000 in November 1953. For the entire year, through November, the figure in 1954 was \$5,307,000.

Lewiston put itself in position for a boost in school construction by approving a \$900,000 bond issue early in December. Site purchases have already begun, and advertisements on various jobs are coming this month and in March.

1954's BIG ONES IN IDAHO

Frank Baulne of Yardley, 6.7 mi. grading and surfacing in Idaho County—\$620,465.

Peter Kiewit Sons' Co. and LeBoeuf Dougherty of Longview, construction of 5,897-ft. concrete bridge and south approach on US 95 near Sandpoint—\$1,135,332.

Le Grand Johnson of Logan, 19.3 mi. of surfacing on US 20 and 20.5 mi. of surfacing on US 26 in Bingham and Butte counties—\$736,931.

Morrison-Knudsen Co., Inc., and J. A. Terteling & Sons, Inc., of Boise, apron extension at the Mountain Home Air Force Base—\$616,341.

Mountain Home Development Corp., construction of a 500-unit rental housing project for the Mountain Home Air Force Base—\$4,982,183.

MONTANA

Natural resources continue as prime mover of Montana construction: Tiber Dam for reclamation, Noxon Rapids for power. Corps of Engineers moves in to build new Air Force base at Glasgow. State highway construction goes up 30% this year. USBR to start new unit of Missouri Basin Project: tunnel and pumping plant come first. \$2,500,000 in bonds for building in Billings.

COMPLETION OF CANYON FERRY DAM by the Bureau of Reclamation was a major feature of construction activity in Montana for 1954, and work on a new Air Force base by the Corps of Engineers at Glasgow looms large in the work to be undertaken in the state this year. Highway construction during 1955 will total about \$16,000,000 which compares to \$12,500,000 for the past year. An important feature in the highway improvement program will be a contract for a 700-ft. bridge across the Missouri River to provide a much needed north-south route through the central part of the state where a distance of 250 mi. separates existing bridges at Fort Benton and Wolf Point. A natural gas pipeline is planned for 1955 to deliver service to Missoula by a line which would originate either at Butte or Anaconda, both now served with natural gas. Among the important industrial expansions is the Anaconda aluminum mill for wire and sheet to be built at Columbia Falls.

Storage and hydro-power development planned on a grand scale

Conservation of water from the rivers of Montana and the use of such storage for the generation of hydroelectric power continue to represent an important phase of future construction activity for the state. During last year preliminaries were advanced looking toward the construction of Libby Dam on the Kootenai River which has been held up by international complications. A new site was selected which should eliminate some of the difficulties regarding relocation of roads and railroads involved in the first application of April 1953 placed before the International Joint Commission. The proposed structure would be a concrete dam 410 ft. high and 2,700 ft. long at the

crest. The reservoir would extend north of the international boundary, a distance of about 40 mi. into Canada, which necessitates the international agreement. Storage capacity would be almost 6,000,000 acre feet and the project estimated to cost \$260,000,000 would develop 800,000 kw. of power.

Of more immediate consideration is the permit secured by the Montana Power Co. for a proposed hydroelectric project at Buffalo Rapids on the Flathead River. Present plans provide for a concrete dam about 4 mi. downstream from an existing power development of the company near Polson.

Bureau of Reclamation activity in

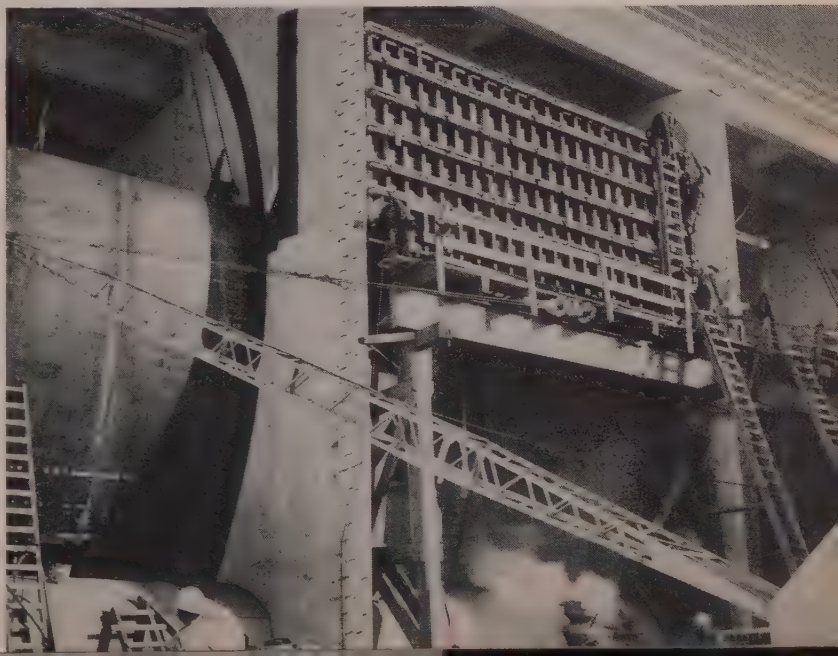
MONTANA HEAVY CONSTRUCTION



Montana during 1954 centered in the operations at Canyon Ferry Dam and at Tiber Dam. The former was completed and its 50,000-kw. power plant installed. Construction operations on this 220-ft. concrete gravity dam have been described in **Western Construction**. The dam is located on the Missouri River near Helena, Montana. By the end of 1954 Tiber Dam, containing 5,375,000 cu. yd. of earth fill, had reached 70% completion. This structure, which is 205 ft. high and 4,300 ft. long is located on the Marias River about 15 mi. southwest of Chester.

The Bureau of Reclamation also announced that supplemental funds will make possible the start of con-

INSTALLATION of spillway gates, shown in this U.S.B.R. photo, typifies the on-schedule progress made in 1954 on the Missouri River Basin Project's Tiber Dam on the Marias River in Montana. The 205-ft. high earth-fill dam completion is planned for late 1955.





EXCELLENT WEATHER allowed final touches to be applied in late November to the 15½-mi. Belfry-Warren natural gas pipeline of the Montana Power Co. Rugged ground was a minor handicap.

struction on the Helena Valley unit of the Missouri River Basin Project and designs are under way for the pumping plant, regulating dam and canals required for this development. The unit will draw water from the reservoir provided by Canyon Ferry Dam and will supply irrigation to 13,000 acres with a supplemental supply to 4,600 additional acres. Construction work on the tunnel and pumping plant for this unit may be expected by this summer.

Farther in the future the multipurpose \$100,000,000 Yellow Tail Dam on the Big Horn River was authorized during last year.

Another conservation site under consideration is at Noxon Rapids on the Clark Fork River in Sanders County. This damsite is under consideration by the Washington Water Power Co. where a \$100,000,000 program would make available about 350,000 kw. of hydroelectric power.

New routes—more money in the highway picture for this year

Following a big 1954 with construction work totaling more than \$12,000,000 the Montana State Highway Department plans to increase activity to a figure of nearly \$16,000,000 this season. Last year the program included \$6,660,000 of work on 298 mi. of the state primary system and \$5,855,000 worth extending over a total of 336 mi. on the secondary system. These figures represent actual construction costs and do not include rights-of-way or engineering work.

In connection with the highway bridge program a project of unusual importance to the state will be advanced during 1955. The Missouri River flowing east through the central part of the state has created a canyon more than 500 ft. deep through the plains area. At the present time, a bridge crosses this river at Fort Benton, and the next bridge to the east is at Wolf Point some 250 mi. away. Last year a construction contract of \$680,000 was awarded for grading and drainage structures on 3.9 mi. of highway location from the top of the canyon on the south side of the river down to the stream in Fergus County. This work included the excavation of 2,153,000 cu. yd. of material, indicating the character of the canyon. During 1955 a contract will be awarded for construction of a bridge across the river at this site. This will be followed by a 7-mi. access road from the canyon rim on the north side which will involve some of the heaviest grading work ever undertaken in the state.

Building construction was unusually active in Butte during 1954, the work including a \$4,000,000 community memorial hospital and a \$1,000,000 civic center structure which provides the city with modern auditorium facilities. Residential construction in Butte during the year totaled nearly 1,200 new homes representing about \$10,000,000 of construction.

The city of Billings, as a result of a \$2,500,000 bond issue, advanced construction on water supply improvements including storage facilities and

10 mi. of 24- and 36-in. mains. Another bond issue and an allotment of \$333,000 from CAA will provide for constructing an 8,600-ft. instrument landing runway at the Billings airport this year.

Corps of Engineers plans new Glasgow air base and more power for Fort Peck

Work by the Corps of Engineers on two Air Force bases will run high during 1955. At Great Falls, the improvement program was active during 1954 and will be carried forward this year. A total of \$12,500,000 is involved with \$7,000,000 available during the 1954-55 fiscal year. A complete new air base will be constructed at Glasgow under the supervision of the Walla Walla District, Corps of Engineers. First bids on this project are scheduled for April and the work will include extensive pavement, buildings and other utilities. Appropriations exceeding \$8,000,000 have been made for this base and the present program calls for the award of contracts as fast as plans can be prepared for bidding.

The most important non-military construction planned by the Corps of Engineers in Montana provides for the construction of the second power plant at Fort Peck Dam and reservoir. Active construction work must await the completion of design plans now under preparation by Erik Floor & Associates of Chicago. Design work was started last year and the estimated cost for construction of this power plant is \$20,000,000.

At Havre, Montana, the Corps of Engineers has under contract flood control operations totaling about \$2,000,000.

The Montana Power Co. during last year finished a 2-mi., 160,000-volt transmission line from its Anaconda substation in western Montana to Billings. The company also installed a third 56,000-kw. generator at the Kerr hydroelectric plant on the Flathead River.

1954's BIG ONES IN MONTANA

England & Roth Construction Co. of Rapid City, 3.9 mi. grading and drainage on the Grassrange-Malta highway in Fergus County—\$680,303.

Peter Kiewit Sons' Co. of Lewistown, 14.9 mi. grading on the Fairview-Girard road in Richland County—\$311,533.

Hagstrom Construction Co. of St. Paul, construction of a 76-bed hospital at Great Falls Air Force Base—\$1,430,930.

Riedesel Construction Co. of Billings, construction of the new Helena High School—\$1,473,930.

NEVADA

Las Vegas tapping Colorado River, and the work is worth \$6,000,000. Corps of Engineers program is going up 50% on military base projects. Nevada is short on highway engineers, but plans \$10,-000,000 construction year. Hotels are no gamble: \$4,500,000 under way in Las Vegas, and Reno has \$6,000,000 coming up. Southern Nevada Power construction budget triples, to \$6,850,000.

NEVADA HEAVY CONSTRUCTION



A BIRD'S EYE view of construction in Nevada is well summed up by the secretary of the Associated General Contractors, Nevada Chapter. Says Edward L. Pine, "The area will continue a building program of approximately the same size as last year. There will be more highway work and some increase in commercial construction in the Reno area. New home construction will probably taper off some, especially in the Las Vegas area."

"The problems to be found will be extreme competition, with adverse profit margins . . ."

"The most interesting jobs have probably been—

Highway: Morrison-Knudsen Co., Inc., job at Sparks, Nevada. Airport: Isbell Construction Co., Reno. Building: Riviera Hotel, Taylor Construction, Las Vegas. General: Ammunition Depot, near Nellis Air Base, Las Vegas; Twaits and Morrison-Knudsen."

The state of Nevada led the nation for the years between 1950 and 1953 for the greatest population increase. It gained 42,000 people in this period—an increase of 26%—to give it a total population of 199,000 by July 1953.

No project backlog, but highways being built at 200 mi. per yr.

To amplify these remarks, here are further details on general construction in Nevada.

For its size, and for its relatively small population, the Nevada Department of Highways has given a good account of itself during 1954. Twenty six contracts were completed that covered about 265 mi. at a total contract cost of \$7,845,000. Including five contracts now underway covering about 33 mi. (and at an estimated cost of \$2,166,000) the Department hopes to place under contract in 1955 a total of 210 mi. of roadwork. The

tentative cost is in the order of \$10,-000,000 but is subject to change.

Should the proposed \$50 billion national highway program carry, Nevada would be faced with serious problems to keep up with it. The state is just barely able now to meet the matching amounts needed to carry on the 1954 federal appropriations. The Highway Department is also short of engineering personnel at the present time and has had little success in trying to increase it in the past year or two. This lack of personnel also results in the lack of a backlog of projects—planning is necessary and it can't be done without trained engineers. Such a backlog of projects can always be used to advantage.

The outstanding highway job during the past year has been the construction of 6.4 mi. of 4-lane divided highway on US 40 in the Truckee River Canyon east of Sparks. This job was awarded to Morrison-Knudsen Co., Inc. of Boise on Feb. 25 on the low bid of \$1,191,335. Work was started on March 16 and is now virtually completed with the exception of the heavy seal and screenings that will be placed next spring, the weather now being too cold for this work.

This work entailed some 900,000 cu. yd. of roadway excavation, largely rock and including two channel changes of the Truckee River. There were 152,000 tons of gravel base. The 2½-in. plant-mix surface on both of the 36-ft. roadways was done under difficult conditions. Heavy US 40 traffic had to be carried through the work for the entire length of the job and on portions—the Southern Pacific main line railroad was directly below the highway.

During the past season, one contractor may have set some kind of record. The Silver State Construction Co. of Fallon placed 200,000 tons of plant-mixed base and surface be-

tween the 28th day of May and the 5th day of October on five jobs totaling a distance of 68.7 mi. using just one 3,500-lb. batch plant. There were four plant moves averaging 48 mi. each included in the elapsed time.

The Highway Department has also outgrown its present headquarters building in Carson City. W. T. Holcomb recently told the state planning board that the department plans to spend \$2,250,000 for buildings. Of this amount, \$1,150,000 would be for another headquarters building in Carson and \$1,100,000 for a divisional headquarters and shop facilities in Reno.

The stepped up federal aid highway construction funds for Nevada beginning July 1, 1955 total \$8,696,000. It breaks down into \$4,066,000 for primary, \$2,718,000 for secondary, \$132,000 for urban, and \$1,780,000 for interstate highway construction.

Corps of Engineers ups spending, but emphasis is on military

The Los Angeles District of the Corps of Engineers reports that \$1,-720,000, or 4.2% of the total military appropriation for that district was spent in Nevada in 1954. The budget will go up about 50% in 1955 with Nevada's share to go up also. Projected military construction placement for calendar years is as follows: Hubbard Field — 1954, \$1,552,000; 1955, \$1,387,000. Stead Air Force Base—1954, \$352,000; 1955, \$974,000; remaining at end 1955, \$300,000. Air Force Communications Stations — 1954, \$61,000; 1955, \$1,420,000; remaining at end 1955, \$900,000.

Civil works appropriations for fiscal 1955 beginning next July include \$40,000 in planning funds for the Mathews Canyon Reservoir.

Large contracts were awarded in the past year for construction at airfields. At Hubbard Field near Reno, Isbell Construction Co. of Reno re-



ANCHOR BARS UNDER TENSION were feature of preventive maintenance above Nevada valve house at Hoover Dam, Selby Drilling Co. secured a slab 19 ft. thick, 120x180 ft. in area, and grouted the bars in for good measure.

ceived a \$1,313,182 award for construction of runways, aprons, and taxiways. Dinwiddie Construction Co. of San Francisco received a \$1,091,323 award for construction of a hangar and warehouse at the same field. Contract administration was handled by the Corps of Engineers on behalf of the Air National Guard. Major construction at Nellis Air Force Base near Las Vegas during 1954 included work by J. H. Pomeroy & Co. for construction of two maintenance hangars for \$1,132,000. Gibbons and Reed had a \$811,000 contract for extension of two runways.

Hotels for more travelers, schools for more residents

Largest building construction in the Reno area proposed for 1955 is for two resort hotels. One is a \$4,000,000, 300-bed hotel that would be built just west of Reno on US 40. Also proposed by the same developer, William Moore, is a motel to be built first. Another hotel, the Primm, is scheduled to cost about \$2,000,000.

On the school scene in Reno, a new intermediate school for \$500,000 will probably be constructed. The 1954-55 budget of the University of Nevada is under discussion and may exceed the 1953-54 amount of \$1,500,000. Two old campus structures may be remodeled for needed classroom space. General residential permits are running about the same as last year.

In Las Vegas, a 250-room hotel scheduled to cost almost \$3,500,000 exclusive of furnishings is going up outside the city limits. Building permits for the first eight months of 1954 exceeded \$21,000,000 — an amount that exceeded 1953 by \$5,000,000. T. G. K. Construction Co., Inc., of Phoenix put in a bid of \$2,227,700 for construction of a high school.

A multi-million dollar housing project near Sparks is definitely the

largest residential subdivision in the state. Developers are George A. Probasco, Inc. About 220 homes of the proposed 755 have been constructed with another 66 to be completed by early February, this year. Another project in this area was the \$500,000 Sparks sewage plant and sewer lines, for which G. E. Schilling of Reno was the contractor.

The mining industry will probably be a growing factor in Nevada's construction dollar. A recent report by the U.S. Bureau of Mines reported that production in 1953 was up 12% over 1952. The production totals included such items as over \$2 million for sand and gravel, and a little under \$100,000 for pumice.

Titanium, one of the "wonder metals," will again be developed near Boulder City. The amount of money and personnel have not yet been announced by Interior Department officials, but new ways are being sought in refining titanium production techniques.

Power capacity and water supply are catching up in Las Vegas

Power development in the Las Vegas area is being undertaken by the Southern Nevada Power Co. The current program includes the installation of a 44,000-kw. steam plant. The plant being built by Stearns-Roger Co. of Denver is of the semi-outdoor design and is expected to cost about \$6,570,000. This includes site improvement, substation, and connection of the plant to the power system. Construction is underway now and will be on the line by December 1955.

Reid Gardner, president of the company, states further that the construction budget for calendar 1954 is \$2,029,100 and for 1955 will be about \$6,871,000.

Las Vegas Valley Water District

will have underway shortly after the first of the year about \$3,632,000 as part of the plan to bring Lake Mead water into the valley. Already awarded are contracts in the amount of \$2,454,000 covering the main pipe lines to carry the Lake Mead water, a 30 million-gal. reservoir, a portion of the North Las Vegas feeder line, and equipment for the pumping stations.

Included in the bids to be received in late 1954 were construction of the Whitney pumping station and facilities at the connection to the B. M. I. line near Manganese Summit, estimated at \$224,000, construction of secondary feeder lines at \$484,000, and pipe for the feeder lines at \$470,000.

At the 11th annual conference of the Colorado River Water Users Assn. at Las Vegas in December 1954, several newsworthy developments were touched on. A report on the effects of sedimentation at Hoover Dam shows that since its construction, the dam has settled 0.4 ft. This settling has reflected a loss of 50,000 ac. ft. of water storage capacity. In upper regions of the lake, where the canyons are narrow sediment is 300 ft. deep. The silt tends to compact because of weight, so that the ability of the reservoir to handle waters is much greater than was expected.

Col. Arthur H. Frye, Jr., Los Angeles District Engineer for the Corps of Engineers reported that additional planning money had been received for the Mathews Canyon flood control reservoir on a tributary of Meadow Valley Wash.

Nevada's growth is based on three resources: tourists, minerals, and land. The first is established, the second is growing, and the third will be developed as the Western region itself gains in value to the nation.

1954's BIG ONES IN NEVADA

Silver State Construction Co., Inc., of Fallon, 10 mi. grading and surfacing in Churchill County—\$720,250.

Dinwiddie Construction Co. of San Francisco, construction of a hangar and warehouse at Hubbard Field near Reno—\$1,091,323.

Isbell Construction Co. of Reno, construction of runways, aprons, and taxiways at Hubbard Field near Reno—\$1,313,182.

T. G. K. Construction Co., Inc., of Phoenix, construction of a high school at Las Vegas—\$2,227,700.

Morrison-Knudsen Co., Inc., of Boise, 6.4 mi. grading and paving on US 40 located 3 mi. east of Sparks—\$1,191,335.

NEW MEXICO

New Mexico's builders will be busier in 1955. Population growth rate sixth highest in the nation provides the impetus, coupled with uranium boom, continued atomic age installations and their spawning of nearby small industry, and overall the necessity to conserve and control limited water supply. Approval of mammoth flood control jobs could mushroom volume. Highway work will be up.

CONSTRUCTION ACTIVITY in New Mexico is riding the crest of a population increase of more than 10% since 1950, sixth highest rate of growth in the nation.

For the cities—accelerated program of subdivisions and utilities

Private money has taken the lead in construction development to serve New Mexico's swelling population. Albuquerque, the state's largest and hub city, typifies the development rate and pattern. Albuquerque's nearly \$37,000,000 worth of permits for private construction in 1954 is easily the largest in its history (1953's figure was about \$35,000,000.)

Mass subdivisions to house Albuquerque's new citizens filled out the record figure. Witness, for example, Princess Jeanne Park, a \$15,000,000 subdivision in east Albuquerque, whose construction started this fall. When finished, the new living area will contain 1,600 homes, 4 shopping centers, and recreational and school facilities. Practically next door, Horizon Homes is embarking on the \$6,000,000 construction of 1,000 homes. And Albuquerque's largest home-building project is well along now—Edward Snow's \$10,000,000 project for 1,150 homes, parks, churches and schools on a 320-acre tract, started in late 1953.

To serve new homes and numerous small industry, Albuquerque is already well along on bond issue-financed construction of waterworks improvements and sanitary sewer expansion and improvements. Contracts awarded for waterworks construction between November 1954 and June 1955 will total more than \$4,000,000. Largest projects in this program are: the 4-mg. West Mesa Reservoir and the 6-mg. Burton Reservoir, \$490,000 (bid opening date January 15); the West Mesa pump station, \$300,000 (Feb. 1); major

trunk water lines, \$500,000 (May 6 and 13), and secondary trunk lines, \$400,000 (bids opened December 31)

Major sewer construction in Albuquerque includes the \$790,000 Edith Blvd. trunk sewer and the \$350,000 West Mesa relief trunk sewer, with construction already started on both projects following Nov. 16 and Oct. 26 bid openings.

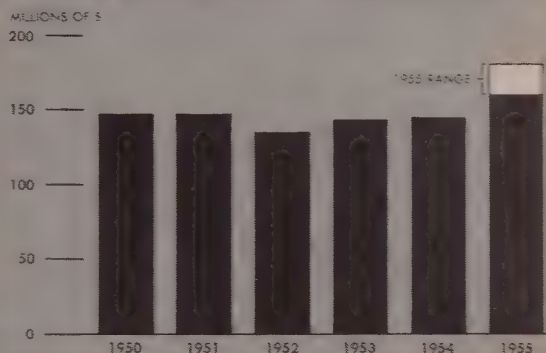
An example of construction resulting from population pressure in a smaller city is provided at Carlsbad in the Pecos River country of southeast New Mexico. D. D. Bivins, City Engineer, estimates 1954 construction in the city at about \$1,500,000, including \$750,000 for city schools, \$170,000 for a 5-mg. reservoir, new water lines, a library, etc. Carlsbad's 1955 construction will probably total about \$1,750,000, primarily for a new city hospital, additions to the St. Francis Hospital, street paving and sewer lines.

School, hospital and other major public construction in New Mexico will continue apace during 1955. For university construction, administrators are asking for about double the funds consumed for new construction during 1954—about \$6,000,000. In July of 1954, the new \$3,500,000 County-Indian Hospital in Albuquerque was nearing completion, and the first phase of a \$10,000,000 improvement program at the New Mexico State Hospital at Las Vegas was well along. A new \$7,000,000 state penitentiary at Santa Fe is under contract and will be completed so prisoners can move in late in 1955. Robert E. McKee has the contract for this one.

Water conservation plans by the Bureau of Reclamation continue

In New Mexico, as in other Southwest and Mountain states, water conservancy is crucial to the state's con-

NEW MEXICO HEAVY CONSTRUCTION



tinued development. Plans for future projects at the moment add up to a far larger dollar volume of construction than projects now active or definitely authorized.

The Bureau of Reclamation will complete about one third of its projected \$22,000,000 flood control work in the Middle Rio Grande Valley by July 1955. On this project, work continued during 1954 on the rehabilitation of drains, with an additional 44 mi. going under contract in August. More drain rehabilitation is scheduled for summer of 1955. Also in 1954, the Bureau had work in progress on the Vermejo Project, including rehabilitation of the Vermejo diversion dam and Vermejo and Eagle tail canals, as well as on laterals and drains. Three low earthfill dams on the Vermejo Project, involving 1,281,000 cu. yd. of earthwork, were completed in 1954.

Planned flood control projects by Corps of Engineers largest yet

On the planning boards of the Corps of Engineers are two major flood control projects in New Mexico, with construction dependent upon appropriations. They are a \$10,000,000 project for the Sandia Conservance District at Albuquerque, and the \$4,800,000 Rio Hondo Basin Project near Roswell. The former project would involve construction of two large drainage ditches to divert flood waters away from lowland areas and dump them into the Rio Grande. Some \$7,000,000 to \$15,000,000 in addition would have to be expended by the Sandia District if the project were carried out, to build other ditches and storm sewers for delivery of flood waters to the main ditches.

The Rio Hondo Basin Project, authorized but not yet financed, would consist primarily of two earth dams, totaling about 10,000 ft. in length and



BOOMING ALBUQUERQUE turned to bond issue to finance much needed expansion of waterworks and sewage facilities. Clarifier pictured is a 1954 improvement to the city's sewage treatment plant, built by C. H. Leavell & Co.

100 ft. in height across the Hondo River and Rocky Arroyo near Roswell. An alternative proposal is for a 4-mi. diversion levee to back up the two streams into one reservoir. The big flood in the fall of 1954 and resultant losses in the area have given considerable impetus to plans for one or the other of the two plans.

A \$4,300,000 flood control project along the Pecos River at Carlsbad is also being planned. An emergency \$1,700,000 project for emergency channelization of Rio Grande water out of San Marcial Lake near Albuquerque was completed in mid-1954. Work is currently under way, by List & Clark, on a \$320,000 contract for placing jetties and dirt embankments along an 8-mi. stretch of the Rio Grande to protect flooding of downtown Albuquerque.

Paving—hangar construction at air bases hit \$28,000,000 in 1954

Military construction by the Corps of Engineers at five Air Force bases in New Mexico totaled \$28,000,000 during 1954, and will probably continue at a slightly slower pace during 1955, although no definite project activity of this nature for 1955 will be announced until Congress arranges budgets early this year. Greatest activity among air bases in the state during 1954 was at Kirtland AFB, Albuquerque, with a total expenditure of more than \$8,000,000. Hangar construction consumed about half of this total, and airfield paving about one third. Other major AFB construction included: \$2,100,000 for paving at Clovis AFB; \$2,000,000 for paving at Holloman AFB, Alamogordo; \$3,300,000 for runways at

Walker AFB, Roswell, and nearly \$3,000,000 for technical building construction at White Sands Proving Ground.

Progressive highway department has big plans for this year

Highways in New Mexico, as in other Western states, will be an increasingly important factor in the state's construction economy during 1955. During 1954, the New Mexico State Highway Department let to contract projects worth \$21,230,000, this figure including contract prices, engineering costs, state-furnished materials, etc. In 1955, the Department will have approximately \$23,000,000 for construction work alone!

A major project completed in 1955 was the \$4,300,000 construction of a divided four-lane highway between Santa Fe and Algodones and two separated two-lane highways between Algodones and Albuquerque.

Among the largest individual awards during 1954 for highway work in New Mexico were these: Brown Contracting Co., \$608,390 for 9 mi. of the Albuquerque-Algodones road; Henry Thygesen & Co., \$598,740 for surfacing on U.S. 84 in Rio Arriba County; Brown Construction Co., \$695,300 for paving on S. R. 422 in Sandoval County; Daniels Construction Co., \$683,290 for paving U.S. 550 in San Juan County; and Skousen-Hise Contracting Co., \$1,042,660 for surfacing on US 66 in Valencia County.

National forest and national park highway construction in New Mexico, by Division 9 of the Bureau of Public Roads, totaled \$1,280,000 during 1954, and projects worth \$1,360,-

000 will be let to contract during 1955.

Major power projects under way in New Mexico during 1954 included: an \$8,500,000 plant at Algodones, completed by Plains Electric Generation Cooperative in early September; and additional units of the Person Station, main power plant of the Public Service Company in Albuquerque.

On the industrial building front in New Mexico, two firms are planning construction of a \$15,000,000 mine and refinery to produce potash near Carlsbad, and Western-Knapp Engineering Division of Western Machinery Co. is working on a \$3,000,000 contract to design, build and equip a plant to treat uranium-bearing ore at Shiprock.

Pipelines continue to loom large in New Mexico's construction business. In September 1954 Malco Refineries announced construction of a \$1,750,000 products pipeline from Artesia to El Paso would start this coming April. And Standard Oil Company's \$4,000,000 pipeline from El Paso to Albuquerque was about half finished in early December of 1954. Construction start is expected early this year on the proposed \$160,000,000 pipeline to stretch from the San Juan Basin in New Mexico to the Peace River country in British Columbia. Including 1,466 mi. of main pipeline, it is a Pacific Northwest Pipeline Corp. project. El Paso Natural Gas Co. is planning construction of 74 mi. of natural gas pipeline in Texas, New Mexico and Arizona at a cost of \$13,800,000.

Everyone in New Mexico knows that the state needs more highways, airports, dams, schools, churches, etc. All that's needed are the funds to pay the way. In early December, seventeen of the state's cities agreed unanimously to seek state approval of increased property tax, city tax and city income tax. This, and other income increasing measures, are first on the agenda of the 1955 New Mexico legislature.

1954's BIG ONES IN NEW MEXICO

Brown Contracting Co. of Albuquerque, 9.2 mi. grading and surfacing alternate US 85 on the Albuquerque-Algodones road—\$608,389.

Austin Contracting Co. and Worth Construction Co., construction of aprons, runways, and taxiways at Clovis Air Force Base—\$1,982,609.

Robert E. McKee, General Contractor, Inc., of Albuquerque, construction of a new state penitentiary at Santa Fe—\$3,369,000.

Skousen-Hise Contracting Co. of Albuquerque, 5.1 mi. grading and surfacing on US 66 in Valencia County—\$1,042,659.

OREGON

Highway needs and highway department capacity are high. Gas tax boost planned to take up slack at end of bond program. Growth of commerce and industry in Portland booms building construction. Electric utilities chafe to start 2,000,000 kw. in hydro projects. The Dalles Dam: \$10,000,000 in awards this year for final phase prime contracts will mean \$100,000,000 of contracts.

THE COMBINATION of an industrial and commercial boom and continuing smooth administration of the state highway program keynotes the immediate future of heavy and engineering construction in the state of Oregon.

Although a big state bond program for highway construction is just now being completed, the highway department is rolling along with increased expenditures in view for 1955. Item: Construction contracted for in 1954 amounted to \$33,000,000, while \$34,000,000 was paid to contractors for work performed. This year it is estimated that awards will total a lower figure, \$22,000,000. But at the same time \$37,000,000 will be paid out under the going program.

The industrial expansion is concentrated in the principal city of Portland. With a population nearing the 1,000,000 mark and a strategic position in regard to shipping, railroads, and highways, Portland boasts an imposing but diversified volume of construction.

Item: Of the larger industrial projects under way or completed in 1954, here are a few. Aluminum Co. of America has a new extrusion plant valued at \$5,465,000. Warehouse and grain storage for the Commission of Public Docks has a tag of \$2,380,000. Crown-Zellerbach Corp. has a \$1,000,000 research laboratory. Portland General Electric Co. has spent \$1,100,000 on a new service center. Expansion by St. Helens Pulp & Paper Co. runs \$14,000,000.

The future looks even better. Look over these round figures: \$20,000,000 for the Lloyd shopping center, \$10,000,000 for a Meier & Frank Co. shopping center, \$13,500,000 for a 1,000-room hotel, \$8,000,000 for an exposition and recreation center, \$12,000,000 for a new Morrison Street bridge.

A closer look is warranted at the two foregoing major categories of

work in Oregon—and at a considerable number of other public and private sponsors of important construction activity in the state. First, the highway department.

Highways: all funds working, good backlog, more gas tax planned

Assurance of a continued high level of roadbuilding is provided in the form of expanded federal aid. For each of the next 2 years, Oregon stands to receive \$12,857,000 for highway purposes. And there is a tradition that these funds will not lie unused in a bank. In recent years Oregon has led the nation in the percentage of federal funds obligated to work on specific projects.

Another indicator of a good level of work in Oregon is contained in a confident, if not outright casual, comment on the boost in highway work proposed by President Eisen-

hower. Says Oregon. "... The proposed \$50,000,000,000 national highway program presents no insurmountable problems for the state highway department organization, since the department has been built up to handle a heavy state bond program which is just being completed. We have a backlog of approximately \$100,000,000 of work in the planning or design stages."

Still another factor to consider for the future of Oregon State Highway activity is the proposal coming before the State Legislature this year to boost the gasoline tax from 6¢ to 8¢. In sponsoring this legislation, the Highway Commission notes the near completion of the \$72,000,000 bond program, also that additional expenditures of \$15,000,000 annually are needed to keep up with demands on and for the highway system.

State highway activity is not the whole story on Oregon's roads, although it of course represents the

OREGON HEAVY CONSTRUCTION



BIGGEST JOB on the Columbia River right now is at The Dalles. Here is \$27,200,000 in work being done by Atkinson-Ostrander: spillway section in foreground, navigation lock in background. And the same pair holds \$18,900,000 in powerhouse work.





TRUCK BED beats scaffold for bolting culvert plate. Installation is typical of Umatilla County work aimed at replacing old wood structures.

most spectacular scale of activity, with such items as a \$700,000 traffic interchange on Harbor Drive in Portland, the almost 100% overhauling of the U.S. 99 alignment through the state, the \$13,000,000 project for rehabilitating the Columbia River bridge between Portland and Vancouver and adding a new bridge alongside, and the Portland-Salem expressway which now has an additional 24-mi. section under construction. Early work on this latter job consists of a pair of grading contracts—\$735,000 to R. A. Heintz Construction Co., and \$1,007,000 to Roy L. Houck & Son. Coming for award prior to the middle of this year are 4 twin over-crossing structures, a single overcrossing, 13 undercrossings separating the expressway from local roads and tracks, and a 4-structure interchange with U.S. 99E north of Salem. Combined with surfacing and paving, these 26 structures bring the project cost to something over \$6,500,000.

County roads improved with progressive engineering

The counties of Oregon are not lagging in their attention to highway needs. In some places money is the big thing, and in other places it's methods.

For instance, Multnomah County has a 5-year program of road improvements that totals \$3,500,000. And this is for 6 major projects.

Typical of the trend in better evaluation of county road requirements is that of Umatilla County. A road survey was completed in September 1954 in this county. The survey is generally similar to that reviewed in *Western Construction* in November 1954 for Douglas County, Washington. The Umatilla plan further covers bridge replacement, bridge installation, equipment re-

placement, maintenance station improvement, rock quarry acquisition, and financing. Results of the analysis would indicate that almost doubling the present budget would be required.

New bridges in Umatilla County will be all metal with asphaltic concrete decks. A total of 400 will be required, at an estimated cost of \$150 per lineal foot. Parts of the new program have already been adopted and the rest may soon be. The present county road budget is \$570,000.

The program of Columbia River ferryboat replacement continues. Last year a new bridge was completed across the river at The Dalles. Currently under construction upstream is a steel span at Umatilla, being built by Pendleton County, Oregon. The 3,400-ft. bridge will return its investment in tolls. In its design a double cantilever with two 600-ft. center spans and girder type approaches, the job has been engineered by Tudor Engineering Co., and is under construction by American Bridge.

Aside from its function of administering federal aid funds in the Northwest states, Division 8 of the Bureau of Public Roads has a heavy program of federal road construction in prospect. For the Forest Service awards are coming up in the first half of this year for 56 mi. of roads and bridges estimated to cost \$3,070,000. Another 41 mi. of construction for the Bureau of Land Management has a price tag of \$1,340,000.

Portland: people bring business; business brings building

A closer look at various plans for public and private building construction in the state of Oregon reveals the impetus of population growth on this Western state. Major industrial construction under way during 1954,

including the whoppers cited at the start of this article, totals \$33,755,000. And this included only 34 separate jobs, with the smallest valued at \$100,000.

Major public and commercial building projects in 1954 amounted to over \$50,000,000. It is significant that this figure includes \$22,000,000 for school construction through high school level, as well as \$8,200,000 for the University of Oregon Dental School and Teaching Hospital.

Lumped together, industrial and commercial building activity and school construction under way in Portland in 1954 totaled close to \$100,000,000. A similar figure can be assigned to new 1955 work (and much of the 1954 construction is of course still under way) with no trouble at all. In fact, only 11 separate jobs are needed to arrive at a figure of \$89,500,000. The biggest chunk of this is represented by the Lloyd shopping center to occupy 40 acres in northeast Portland, at \$20,000,000. Other examples, including both public and privately sponsored work, include the \$12,000,000 new Morrison Street Bridge authorized in an election last May and a \$10,000,000 shopping center planned by Meier & Frank Co. for a 58-acre site in northeast Portland.

What's behind all this industrial and commercial expansion shows up in population statistics—and in the closely allied figure for residential building permits. Portland shows a current rate of population increase of about 2% in the city itself and 4% in its suburban area. Both these figures are annual rates. Residential building permits for the first three quarters of 1954 totaled nearly \$15,800,000.

Building permits are a useful index to construction activity elsewhere in Oregon also. For instance, Klamath Falls shows a volume of nearly \$924,000 in the first three quarters of 1954, as against \$840,000 for the entire previous year. Figures such as these go a long way to show that despite early doubts, 1954 was a good year and 1955 promises even more.

Utility and government partners lay plans for Oregon hydro dams

For *Western Construction* readers the value of this expansion lies in the resulting demand on heavy construction services for such things as power, highways, water supply, and sewerage. Insofar as power and water supply—and flood control—are concerned, a look to the immediate future reveals that Oregon, like Washington and Idaho, is entering another era of utility dam construction.

In the southern part of the state, California-Oregon Power Co. has announced plans for \$10,000,000 of construction activity during this year. About half of this is for additions to their hydro system, in particular the Lemolo plants No. 1 and



SPECIFY *Yellow Strand...*

Above: An artist's conception of Folsom Dam
(1) The concrete main structure. (2) Million-acre feet reservoir. (3) Power house and tail race. (4-5) Folsom prison. (6) Auxiliary rock fill (7) Earth fill



As equipment removes 40-60 feet of sand and gravel to get to bed rock, the main trestle is readied for the push across the canyon.



Five months later, the dam rises on canyon floor. Gantries and trestle speed handling of concrete. Abnormal floods caused a delay in the work.

WITH 25,000 cu. yds. of concrete going into the main structure each week, Folsom Dam is speeding toward completion. In spite of floods and other natural delays, contractors Merritt-Chapman & Scott and Savin Corporation have kept work on schedule.

The huge dam, built to provide flood control, irrigation and power on the American River near Sacramento, is a \$29.4 million project of the Corps of Engineers. The structure will contain 1,200,000 cu. yds. of concrete and will stretch out for a quarter of a mile with flanks protected by another $1\frac{3}{4}$ miles of rock and earth fill. More than 9,000,000 cu. yds. of earth and rock will have been excavated and 800,000 cu. yds. of selected fill will have been put into place when the dam is completed.

Work started in 1951 and contract completion date is in 1956. To date, well over half the project is finished and present work is moving at a fast clip under direction of D. E. "Dave" Stinson, Project Manager, and L. G. Sumner, Project Engineer.

And to keep machines working under this stepped-up program of production, Yellow Strand Wire Rope is specified by the contractors.

Yellow Strand Wire Rope is made of steel drawn to precise specifications to give it strength for a longer, trouble-free work life. It's flexible to take the blows of impact and the wear of fast-running sheaves. Contractors know from experience that Yellow Strand on their machines is one way of assuring against downtime due to wire rope fatigue. They know that ropes they need will be in stock at nearby Broderick & Bascom distributors.

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See manufacturer's listing page 10H, Yellow Section

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Here's real mobility in high-capacity electric plants! Now you can use *one unit* (in place of several smaller portable plants) for floodlighting and operating motor-driven tools or electrical equipment. You can cut down the number of units on the job, reduce servicing time and maintenance costs!

You can tow a trailer-mounted Onan "CW" Electric Plant as fast as a car will travel . . . anywhere a tractor can go! Fully-protected by heavy-gauge steel housing; stays on the job in any weather.

Onan "CW" Electric Plants are unusually compact, quiet-running and economical to operate; weigh only half as much as water-cooled plants of the same capacity. Powered by Onan two-cylinder, suction-air-cooled gasoline engines built with massive, long-wearing parts for continuous, heavy-duty service.

Wide range of accessories make the "CW" more versatile.

You can equip "CW" Electric Plants for any type of portable service with a wide range of accessories including skid, battery rack, 9-gallon fuel tank, weather-proof housing, two-wheel trailer, or 4-wheel, rubber-tired dolly. Put one of these portable, high-capacity units on your job now!

Call your Onan distributor or write for folder A-362.

Onan builds electric plants for every need—400 to 75,000 watts.

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See manufacturer's listing page 38H, Yellow Section



OREGON continued

No. 2 in Douglas County. These two plants are additions to the existing Toketee project on the North Umpqua River and are estimated to represent an eventual cost of close to \$20,000,000. Lemolo No. 1 includes a diversion dam 910 ft. long and 120 ft. high, and a 29,000-kw. powerhouse. Lemolo No. 2, downstream, will include a low diversion dam and a powerhouse having 33,000-kw. capacity.

Activity by the city of Eugene, through its Water & Electric Board, is directed at two projects proposed for the McKenzie River. The Beaver Marsh project has an estimated cost of \$7,000,000. Its progress to date is marked by two developments: First, application to the Federal Power Commission for a license to construct, and second, retention of the consulting firm of Cornell, Howland, Hayes & Merryfield to do the engineering. Located at the head waters of the river, the project will involve two small dams.

Cougar Dam is a more ambitious undertaking, and one which finds the Eugene Water & Electric Board seeking a partnership arrangement with the federal government for construction and operation of the project. Early in 1954 it was proposed that Eugene build the power features at a cost of about \$10,000,000, and in addition contribute \$1,500,000 toward other costs of the project. Such an arrangement would make possible a more efficient power design for the project—45 ft. more height for the dam and 10,000 kw. additional power potential.

In furtherance of this general plan, the city of Eugene applied to the Federal Power Commission for a permit to study the project. Also, planning funds of the Corps of Engineers have been made available to the work. As presently contemplated, the dam will be a rockfill embankment 1,630 ft. long and as much as 445 ft. high. The Corps of Engineers estimates that construction will take 5 years.

John Day Dam would complete hydro "stairs" from Bonneville to McNary

Another major step in the Columbia River development is the proposed John Day Dam. And this \$325,000,000 job has been the subject of an unprecedented proposal on the part of northwestern utility firms. In an effort to speed up plans for the project, Washington Water Power Co., Pacific Power & Light Co., and Portland General Electric Co. have offered to put up \$350,000, the loan presumably to be repaid in the form of power output from the completed project. Other proposals in connection with this project include a tenta-

tive offer by the utilities to pay, in advance, about half the cost of construction—some \$164,000,000. In addition to cost, two other figures give an idea of the size contemplated for this dam, to be located between the existing McNary and The Dalles projects. The structure would be about 225 ft. high and would include power generating capacity of 1,100,000 kw.

The same three utilities named above in connection with John Day Dam have formally joined with a fourth, Montana Power Co., to form Pacific Northwest Power Corp. And this super-utility has filed with the FPC for permits on several other projects, of which Pleasant Valley Dam in Oregon is one. The Pleasant Valley site is on the Snake River; it is, in fact, one of the possible alternatives to the bitterly contested Hells Canyon Dam—particularly when considered in conjunction with the proposed Mountain Sheep dam-site, on the same river but in Idaho.

As described late last year by Pacific Northwest Power Corp., Pleasant Valley Dam would be 492 ft. high, of concrete arch design, and would impound a reservoir 34 mi. long. The power potential of this site is estimated to be 600,000 kw.

Portland General Electric Co. is busy on its own. Its major present construction is restricted to Timothy Meadows Dam, a \$2,200,000 project on which Morrison-Knudsen holds the general contract. The work got under way last summer, and the earthfill structure is expected to be finished by the end of this season. Timothy Meadows Dam is to be 100 ft. high and 725 ft. long. Its power facilities total 10,500 kw.

Plans of a much bigger nature by Portland General Electric remain in the air. The company has long wanted to build a \$22,000,000 hydro project on the Deschutes River in Oregon, and a Federal Power Commission license was granted for the purpose. However, the project has been contested in Oregon by fish and game interests. The latter have won out so far, but the issue is on appeal before the Supreme Court.

The Dalles—still the biggest current project on the Columbia River

Swinging now to what has traditionally been the "big time" of Oregon dam construction, here is a look at what is planned for 1955 by the Corps of Engineers.

Newly available fiscal funds for civil works construction by the Corps of Engineers, Oregon, come to nearly \$40,000,000. This figure neglects expenditures for McNary Lock and Dam, which have arbitrarily been designed to the state of Wash-



"Baby Digger" truck loads in close quarters, has big capacity, digs up to 20" wide, 5' deep

This East Ohio Gas Company job, the replacement of a main extension, shows why the Cleveland Model 92 "Baby Digger" is so widely used for city digging. The "92" puts the edge of a trench within 17 inches of a parallel wall, loads excess spoil directly into trucks at the curb, and affords the operator full visibility of the whole job.

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daily footage on jobs where high production rates can be used to advantage. It has ample capacity for trench from 10 to 20 inches wide, down to 5 feet deep.

Compactness, maneuverability, speed combinations, capacity—if most of your trenching jobs are city jobs, the "92" is the trencher for you!



And does it get around! The "92" hustles safely from job to job... at legal limit speeds... because it's so easily portable on the drop-axle, tilted Cleveland T5 Trailer.

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CLEVELAND

See manufacturer's listing page 15H, Yellow Section

ington for the purpose of this review.

But such assignment leaves a very considerable item of work to the state of Oregon, in the form of The Dalles Dam on the Columbia, where \$36,000,000 has been provided this year. This is fiscal year money voted by the last Congressional sessions and is only a partial index to the level of activity for 1955. Even with The Dalles as the biggest single project in the state, current appropriations do not fairly reflect the workload. Total expenditures planned for

1955 by the Portland District come to more than \$79,700,000. This compares to a figure last year of barely \$64,000,000.

At The Dalles the biggest year yet is in prospect. Of seven major contracts involved in the construction of this project, six have been let—including one that is now complete. One more is scheduled for award this year. Here's how they stack up.

S. A. Healy Co. had a \$4,900,000 contract for preliminary powerhouse excavation and cofferdam construction. That work is now complete.

Guy F. Atkinson Co. and Ostrander Construction Co. have three con-

tracts in force at the present time. One of these, running about \$14,500,000, comprises the spillway section of the dam and its tainter gates and excavation of tailrace and approach channels. This work is more than 40% complete.

The same combination also holds the \$18,900,000 Phase 3 contract, calling for final excavation and substructure for eight bays of the powerhouse. Included in this work also is the east fish ladder. Progress about 10%.

A more recent award, also going to Atkinson and Ostrander, is a \$12,700,000 contract for the navigation lock on the Washington side of the river, the north fish ladder, and a non-overflow concrete dam section connecting this work to the spillway section also under contract. Work just starting.

The final contract in force at the present time amounts to about \$30,000,000. Held by The Dalles Powerhouse Constructors, it comprehends final excavation and substructure construction for 14 bays of the powerhouse and appurtenant works.

Late in 1954 bids were taken for Phase 2, comprising the entire powerhouse superstructure, the middle fishway, and a final concrete non-overflow dam section. Estimated at \$13,523,800 by the Corps, the work was bid in December at \$12,661,200 by C. J. Montag & Sons, Carl M. Halverson, Cascade Contractors and Austin Construction Co.

In the conservative official language of the Corps, "over \$10,000,000" is the estimate for the rock-fill closure dam adjacent to the Oregon shore and removal of cofferdams. The work is coming this year; also \$10,000,000 or more for operating and generating machinery.

As an indicator of long range prospects for contract work under the Corps of Engineers in Oregon, it is interesting to compare past and current estimates of total cost of The Dalles Dam. Originally pegged at more than \$340,000,000, this project has been subjected to design economies and its contracts have attracted such favorable bidding that the official estimate now is down to \$303,000,000.

Corps of Engineers activity continues on the Willamette River Basin

The other major new construction activity of Corps of Engineers in Oregon is a series of projects in the Willamette River Basin, representing a total cost of \$422,000,000. Past fiscal years have seen a total of \$178,000,000 allocated to this work; for the current year an additional \$3,700,000 is available. The biggest chunk of this goes to Lookout Point Dam, where powerhouse equipment installation is under way.

Of some \$300,000 in planning money available to the Corps of En-

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See manufacturer's listing page 46H, Yellow Section

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In general these products are specially designed for structures which control or contain water. Preformed joint fillers used in conjunction with rubber waterstop fill and seal expansion or construction joints so effectively that considerable hydrostatic pressure on one surface of the structure is not allowed to come through the joint.

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CORK Premolded Joint Filler has a high recovery factor (95%) after compression — is non-extruding and inconspicuous in mass concrete structures. Keeps the joint filled at all times.



SELF-EXPANDING CORK is specially treated to expand to 150% of original thickness to insure positive joint filling where concrete shrinkage problems are present. Non-extruding . . . and resilient.



SPONGE RUBBER CEMENTONE Gray color blends with concrete. Fully resilient, non-extruding. Uniform thickness and density. Supplied in various degrees of compressibility to meet your requirements.

RUBBER WATERSTOP

Servicised Waterstop is flexible and elastic, with a very high tensile strength — easy to install and once in place withstands contraction, expansion and shearing movement to insure a positive permanent watertight seal against hydrostatic water pressure.

Two types — Flat Dumbbell and Hollow Bulb. Both types meet all standard engineering specifications. Waterstop also available in fabricated ell's and tee's.



Flat Dumbbell Type



Hollow Bulb Type

NEW! SPLIT DUMBBELL TYPE

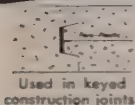


Serviced Split Type Waterstop spread open and nailed to inside of bulkhead. This eliminates slotting — saves time and labor.



Saves time, labor — eliminates split bulkheading. One half of waterstop width is split to permit fastening to bulkhead to form a "T" (see illustration). After pour, bulkhead is stripped, and divided section joined by stapling or with rubber cement. Also lower cost field splicing using Serviced Union.

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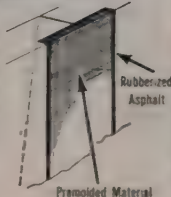
Used in keyed construction joints

Sealing at footing.

Bituminous rubber seals keyed contraction or construction joints, in vertical walls. Applied by heating surface. Adheres to concrete to form resilient, moisture-tight seal.

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OREGON continued

engineers in Oregon, over half (\$150,000) has been allocated to preliminary work in connection with Cougar Dam. This project already has been mentioned as a possible "partnership" project in conjunction with the Water & Electric Board of Eugene. Work by the Corps of Engineers to date includes a topographic survey of the damsite and a cost allocation report contributing to the determination of partnership feasibility.

Tualatin Dam remains up in the air, with no expenditures presently planned or authorized. This \$11,000,000 project, located southwest of Portland, near Gaston, has been submitted in report form to the Chief of Engineers, with no further executive or congressional action having yet been taken.

Other Corps of Engineers funds currently being applied to civil works projects include \$600,000 for repairs to a jetty at Yaquina Bay, and \$125,000 in planning funds (including foundation investigation and design studies) for the Hills Creek damsite.

No Army or Air Force construction is currently being handled by the Portland District, and none is in prospect. However, elsewhere in Oregon there are several projects under the jurisdiction of the Walla Walla District of the Corps. Though unspecified in nature, this work is expected to total about \$600,000 in contract awards in 1955, against the comparable figure of \$700,000 last year.

Railroads have their share of the construction picture

Not a functional part of The Dalles Dam project, but necessarily to be considered with it in a review of expenditures are contracts for the relocation of railroads in the reservoir area. A bid opening this month covers grading and construction of 14 mi. of track on the Washington shore. The job will cost more than \$5,000,000.

There is other railroad construction contemplated in the state also. Southern Pacific Co. has awarded its own contract for construction of a bridge substructure across the Clackamas River 14 mi. south of Portland. To be completed this year, the structure itself will consist of five plate girder spans, each 110 ft. long.

A feature of railroad operating improvements in many states during recent years is the installation of centralized traffic control systems. About 95 mi. of Southern Pacific line between Eugene and Crescent Lake is being brought into this form of remote control train dispatching. The job began in 1953 and will wind up this year with a final expenditure of about \$400,000.

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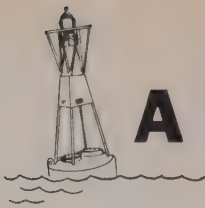
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See manufacturer's listing page 50H, Yellow Section

continued

Western states and represented in Oregon is the Bureau of Reclamation. However, Oregon has not for some years been a highly active reclamation state, and only a modest level of work is being maintained. Last year saw the completion of a difficult job of rehabilitation at Savage Rapids Dam on the Rogue River. This work was reviewed in **Western Construction** in August 1954.

The principal current work pertains to construction of Crescent Lake Dam, for which bid invitations were issued late in 1954. The work includes removal of the existing timber-crib dam and construction of a small new earthfill dam, together with outlet works and open-cut spillway.

Looking to the future, the Bureau has submitted its plan for a proposed \$19,000,000 development on Jenny Creek near Ashland, Ore. The principal structure is Talent Dam, contemplated to include power generating capacity of 10,000 kw. A report on this project has been completed by the Bureau and is now in the process of review by interested state and federal agencies prior to submission to the Budget Bureau and Congress.

The foregoing review of the immediate past and the immediate future in Oregon heavily emphasizes the role played by highway agencies, the Corps of Engineers, private utilities, and private industry. All these groups are sponsors of heavy construction activity and, in the light of plans summarized above, the construction outlook for Oregon for 1955 is exceptionally good.

1954's BIG ONES IN OREGON

D & H Construction Co. and M. H. Hasler Construction Co. of Sacramento, 6.7 mi grading on the Pacific Highway about 7 mi. south of Roseburg—\$1,359,784.

L. H. Hoffman of Portland, construction of a high school at Portland—\$3,210,000.

Guy F. Atkinson Co. and Ostrander Construction Co. of South San Francisco, construction of navigation lock, north non-overflow dam, and north fishladder at The Dalles Dam—\$12,708,180.

Montgomery - Macri and Western Line Construction Co. of Portland, construction of 66 mi. of the Chief Joseph-Snohomish 345-kv. transmission line—\$1,788,727.

American Pipe & Construction Co. of Portland, construction of eight steel tanks at Terminal 4 in Portland—\$1,276,525.

Eaton 2-speed Axles have

4

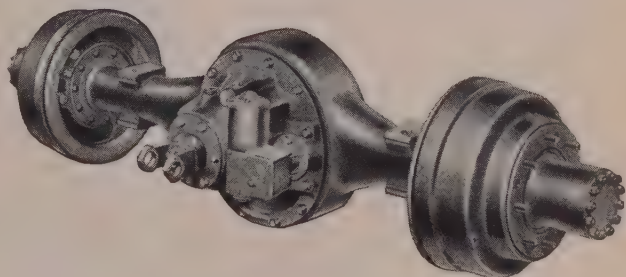
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See manufacturer's listing page 21H, Yellow Section

UTAH

Heavy industry expansion marked by new Geneva plant for Consolidated Western Steel. New facilities total \$10,-000,000 for Union Pacific and Southern Pacific at Ogden "gateway." Weber Basin construction by USBR in 1954 features three new starts totaling \$8,200,000. Salt Lake County building valuation up 26% over 1953, entire state up 27%.

PERHAPS the biggest construction undertaken in Utah in 1954 has been the various phases of the Weber Basin Project under the jurisdiction of the Bureau of Reclamation. This development of the Weber River basin's unused water is intended to supply irrigation, municipal, and industrial needs for residents on the eastern shore of Great Salt Lake between Salt Lake City and Ogden. Overall cost will be about \$70,000,000. Highlight of this work was completion of the 3-mi. long Gateway Tunnel. Work on the tunnel was done by Utah Construction Co. who set a new record for progress for the tunnel section involved—they advanced 78 ft. in 24 hr. Average daily progress of the crews was more than 60 ft.

Reclamation is big spender in water resources development

Three other large contracts were awarded in 1954 on this development. The earthfill Wanship Dam went to Utah Construction Co. at \$2,423,046. This dam will be 156 ft. high, 2,000 ft. long, and requires 3,021,000 cu. yd. of fill. Construction started in July.

The Davis Aqueduct, an 18-mi. long pipeline, was awarded to the United Concrete Pipe Corp. of Baldwin Park, California, for the sum of \$3,896,146. Work was started on this project in August.

Morrison-Knudsen Co., Inc., of Boise submitted a bid of \$1,948,812 for the 7.5-mi. section of the Gateway Canal. Construction was started here in September.

Other project structures scheduled to be placed under contract late in 1954 included a 40-ft. high, 500-ft. long, earthfill dam to form a small equalizing reservoir, and 4 mi. of pipelines for the Weber Aqueduct. Scheduled for start of construction by early spring are 4 additional miles of the Davis Aqueduct, and the raising of the existing Pineview Dam, an

earth embankment, and modifying the spillway and outlet structures.

A possible new source of construction dollars for contractors in Utah may well be work on small flood control projects that will be sponsored by communities. A "pilot" plan was passed by the 83rd Congress (\$5,000,000) under which the Soil Conservation Service, the Forest Service, and the communities cooperate in the rehabilitation. About 60 such projects were undertaken in the U. S. A. including the Mount Pleasant and Santaquin watersheds of Utah.

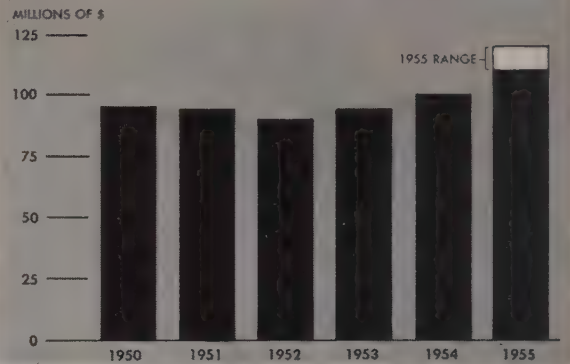
In the Santaquin area, about 300 denuded acres were terraced under the supervision of the Forest Service. Gullies were plugged with rock and brush check dams. Interested parties included Utah Power & Light Co., Utah County, Genola, Santaquin, Summit Creek Irrigation Co., and Santaquin Livestock Assn. Total cost of the project was about \$131,000 with about half being paid by local residents in cash or materials.

Congress appropriated \$3,000,000 to initiate planning work on the projects for fiscal 1955 beginning next July. About 25 Utah communities are expected to apply for funds and technical assistance. Projects are initiated locally, are approved at the state level, and are eventually passed to Congress which has responsibility for providing the federal share of costs. Projects may be straight flood prevention, including structures and land treatment, or an agricultural conservation plan for development, utilization and disposal of water.

Grease for the hub of Western railroad transportation

In the railroad scene, the Union Pacific and Southern Pacific completed a new \$4,000,000 speedway yard at Ogden last September. Construction of the East or Riverdale Yard for the Ogden Union Railway &

UTAH HEAVY CONSTRUCTION



Depot Co. (jointly owned by the two railroads) provided 22 mi. of new trackage to increase the depot company's total trackage to 124 mi. The additions and modern betterments make the Ogden freight yard the second largest Class A switching terminal west of Chicago and Kansas City.

At the end of 1954, work on the \$5,600,000 main diesel repair shop for the Union Pacific Railroad was about 90% complete. The main shop is a reinforced concrete building 410 x 162 ft. It has two wings 220 x 102 ft. and the other 303x80 ft.

Small planning but big construction by Corps of Engineers

The Corps of Engineers has a large dollar volume of military construction work slated for Utah for the coming years—particularly at Hill Air Force Base just South of Ogden. An estimated \$130,000 was spent here in calendar 1954 with \$4,399,000 scheduled for 1955. In 1956 another \$8,799,000 will be available from 1955 carryover funds. Plans include construction of a new runway system capable of accommodating jet-type aircraft and a 560,000-sq. ft. warehouse to cost \$3,350,000.

Other military construction placement figures for the Corps include the following: Dugway Proving Ground—1954, \$1,217,000; 1955, \$2,989,000; Tooele Ordnance Depot—1954, \$160,000; 1955, \$903,000. For Corps of Engineers civil works projects, Congress has provided \$16,000 for planning work on the Spanish Fork River.

Plenty of work to do, but money is the big highway problem

The highway improvement picture in Utah is similar to that of other neighboring states. It has a large area to cover and a relatively small population to help in the financing of the

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You can end this damage now by installing AMERICAN skirtboard rubbers. They're smooth and pliable, won't pick up moisture or sand. They're flexible so you can set them closer to the belt to keep material from working under and stop spillage without danger of belt damage. They're tough — last with little attention, save you the hours you're spending now to maintain and replace home-made skirtboards.

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UTAH continued

needed work. The estimated needed improvements on the total state highway system of 5,450 mi. at the end of 1953 was \$280,000,000—a truly staggering sum. The estimated expenditures for road construction in 1954 will be about \$11,000,000 compared with \$12,000,000 the Highway Commission spent in 1953—the greatest amount in its history.

Reasons behind the large backlog of improvements are easily accounted for. Many of the 2-lane highways are carrying traffic volumes far in excess of practical capacity and should be replaced with 4-lane highways. About 15 cities qualify as urban areas with needed improvements to expressway standards. High construction costs result from much of Utah's terrain being so mountainous. Another hidden cost in the widening of 2-lane highways to a multiple lane status is that of right-of-way expense. It is eating into the construction dollar more and more.

The financing necessary to build more roads may be handled in several ways. One method for main arteries would be toll roads, but traffic volume cannot be considered sufficient yet to justify this action. Increased taxation rates is another way for a pay-as-you-go program and the issuance of bonds is a way to pay for it from future revenue. The proposed \$50 billion national highway program has still to be settled as to how much matching funds the states would be required to furnish. With Utah having trouble now matching existing federal aid amounts, the future remains clouded.

Aside from the state road construction, Division 9 of the Bureau of

Public Roads had a sizeable program. Under contract in 1954 were about 100 mi. of National Forest and National Park highways at a cost of \$3,326,000. The program for 1955 is smaller with only 4 mi. to be constructed at a cost of \$270,000.

Some of the major highway contracts awarded in 1954 include a \$683,743 award to W. W. Clyde & Co. of Springville for 6.3 mi. of roadmix surfacing in Juab and Utah counties; \$365,071 award to Gibbons & Reed of Salt Lake City for 1.7 mi. of asphalt concrete surfacing in Salt Lake County; a \$536,577 award to Thorn Construction Co., Inc., of Springville for 17.1 mi. of plant-mix surfacing on US 160 in San Juan County; Ragnar Benson, Inc., of Moab, a \$499,130 award for a Colorado River bridge in Grand County; Olof Nelson of Logan, a \$156,280 award for 4.6 mi. of plant-mix surfacing in Cache County; Reed Trucking & Construction Co. of Salt Lake City, a \$232,565 award for 4.1 mi. of road-mix surfacing in Sevier County; Floyd S. Whiting of Murray, a \$733,518 award for 5.9 mi. of plant-mix surfacing on the Echo-Emory road in Summit County.

New industry brings new homes: 3,000 coming in one development

A look at the Salt Lake area shows a major building boom is underway. Salt Lake City's enviable position as "The Crossroads of the West" is an incentive for businesses to establish there. And where business goes is to be found the contractor's dollar.

Edward J. Peters, manager of the Salt Lake City Chamber of Commerce lists these important projects that were under way or completed in 1954. All are projects costing more than \$1,000,000.

First Security Bank of Utah in the process of being completed—\$1,500,000.

New Z.C.M.I. department store parking ramp and garage completed November 1954—\$1,000,000.

New shopping center developed in Sugar House area of Salt Lake City—\$1,500,000.

Completion of Sure Seal Wax Corp. plant—\$2,500,000.

Completion of new Kennecott Copper Research Center at the University of Utah—\$1,000,000.

Completion of new General Motors diesel plant in Woods Cross—\$1,500,000.

Planned construction for Salt Lake City Chemical plant—\$8,000,000.

Construction begun on Consolidated Steel's anhydrous ammonia plant at Geneva—\$18,000,000. Blaw-Knox reported that it was nearing completion on the engineering design of the plant.

Planned construction of a new Beneficial Life Insurance Co. office building at Salt Lake City—\$1,000,000.

Expansion has been started by Salt Lake Refining Co.—\$2,500,000.

In the housing field, there has been a sharp increase in new residential construction in this area. Of particular note is the Kearns development southwest of the city. The Hoffman Home Co. plans to build 3,000 new homes in this area within the next 5 yr. Several planned shopping centers will be in the program of building as well as recreation area. Rose Park area in the northwest section of the city is also growing rapidly. About 300 new homes have been built by one contractor, Alan Brockbank Co., in the last three months.

Utilities and schools picked up by homebuilding snowball

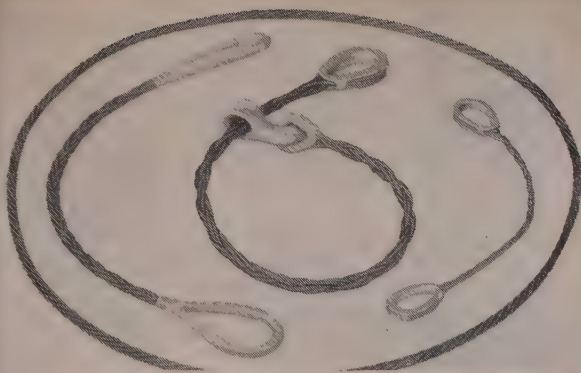
The value of building permits in the first nine months in 1954 in Utah at \$65,000,000 was 27% above that of 1953. Construction in certain areas has assumed an all time record. This applies especially to the Salt Lake City area which is well on its way to surpassing that of 1953 and 1950. Residential construction permits for January through September in major areas in Utah total 4,289 units, the highest for any corresponding period in history.

In the opinion of Peters this residential housing boom will continue well into 1955 because of the demand and because of easier financing policies. Employment from new industries will naturally have a definite effect on new home projects. From all indications at the present time the employment in this area will be steady and probably increase a little in the coming year.

For all-over construction in Salt Lake City, 1954's volume has well

SECOND LARGEST in the West is this freight terminal at Ogden, jointly owned by SP and UP. Additions worth \$4,000,000 were completed late last year.





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Materials handling—from unloading a car of pipe to handling a 200-ton generator—requires a wide variety of safe, economical, easy-to-handle slings. The sizes and types of Macwhyte Slings are practically unlimited—they are available in many standard designs or can be custom-made. Bulletin lists and illustrates many types and body styles in Round-Braided, Flat-Braided and Single- Part Slings. Specify Bulletin 5308.

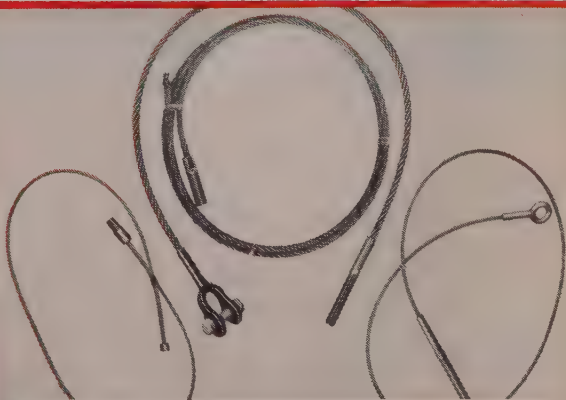
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See manufacturer's listing page 34H, Yellow Section



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See manufacturer's listing page 5H, Yellow Section

UTAH continued

surpassed 1953 and 1955 could well be equal to or greater than 1954. Estimated revenue for Salt Lake City in 1955 will total \$9,774,400, not including a 4-mill levy for water and sewage projects. This can be compared with the 1954 estimated revenue of \$10,651,853 which does include the 4-mill levy.

The big \$9,000,000 sewer project undertaken during 1954 by the Salt Lake City Suburban Sewer District was nearly three months ahead of schedule by the end of the year. There are five general contractors involved in the laying of nearly 120 mi. of main line sewer and an equal amount of service lines. Sewer mains are one-fifth completed and the trunk lines one-half completed. Caldwell, Richards and Sorenson are consulting engineers on the project.

Some of the general contractors doing work on the project are Hilton & Carr, Kloepper Construction Co., Schmidt Construction Co., and State-wide Plumbing & Heating. More than 200 workers are employed and 23 trenching machines are involved in the laying of the 8- to 42-in. main sewers.

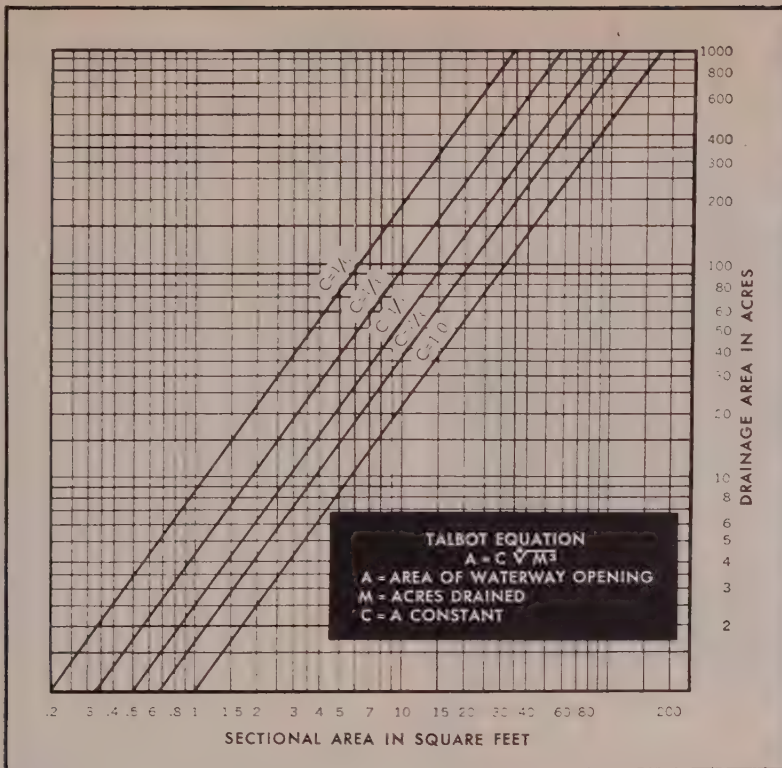
In the water supply field, the facilities of the Salt Lake County Water Conservancy District will be more than doubled in 1955 with the addition of \$1,200,000 in lines and reservoirs to the system. The district started operations about one year ago and has now completed about \$1,000,000 in lines stretching some 52 mi.

School construction by the Salt Lake City Board of Education is continuing under a 4-yr. plan which will affect 34 schools at a cost of \$10,000,000. Patrons of the Granite School District will go to the polls on Jan. 25 to vote on a \$4 million bond issue to finance needed additional buildings. Under the program five new schools will be built.

Provo proves the pattern, with industry leading development parade

Construction in the Provo area during 1954 reached the large sum of over \$16,000,000. Construction by the City Engineering Department under Earl Conder amounted to about \$1,300,000 including a \$1,000,000 sewage plant that will be completed this year. Also completed during 1954 were a \$200,000 sewer outfall and \$80,000 in street improvements. Planned expenditures for 1955 will be about \$1,400,000.

The Provo Chamber of Commerce headed by Clayton Jenkins has good reason to be optimistic. Building projects undertaken in 1954 and nearing completion or scheduled for completion in 1955 include three new buildings for the Mountain State Telephone & Telegraph Co. at a cost of \$3 million; the \$1,150,000 Utah



| DIAMETER OF CULVERT IN INCHES | AREA OF WATERWAY OPENING IN SQ. FEET |
|--|---|
| 8 | 0.349 |
| 10 | 0.544 |
| 12 | 0.785 |
| 15 | 1.227 |
| 18 | 1.767 |
| 21 | 2.405 |
| 24 | 3.142 |
| 30 | 4.909 |
| 36 | 7.068 |
| 42 | 9.621 |
| 48 | 12.566 |
| 54 | 16.000 |
| 60 | 19.635 |
| 66 | 23.760 |
| 72 | 28.274 |
| 78 | 33.183 |
| 84 | 38.484 |
| 90 | 44.178 |
| 96 | 50.265 |

How to determine culvert sizes

In the graph above, the factor C depends upon the contour of the land drained, and the following values are recommended for various conditions of topography. $C=1$ for steep and rocky mounds with abrupt slopes. $C=2/3$ for rough hilly country with moderate slopes. $C=1/2$ for uneven valley, very wide as compared to length. $C=1/3$ for rolling agricultural country where the length of the valley is three or four times the width. $C=1/5$ for level districts not affected by accumulated snow or severe floods. Decrease C for milder conditions; but increase C for steep side slopes or where the upper part of the valley has a much greater fall than the channel of the culvert.

Here's an example: Suppose you are required to find the cross-section area of a culvert suitable for draining 80 acres of level country. Assuming $1/5$ as the value of C; locate the intersection of the 80-acre line with the first curve; then trace directly down to the base line. The point lies at 5.3 square feet. From the table at right above, you find the nearest point corresponding to 5.3, in this case, 4.909. So the proper size of culvert to use is the 30-inch stock size.

Metal drainage structures made from USS Copper Steel Culvert Sheets have many advantages. Lightweight, strong, and flexible, they are simple and quick to install. A heavy 2-ounce coating of zinc gives long-lasting protection against corrosion and erosion. So be sure the culvert you specify or buy is made with USS Copper Steel Culvert Sheets. It meets all requirements and specifications, assures you a better, more dependable job.

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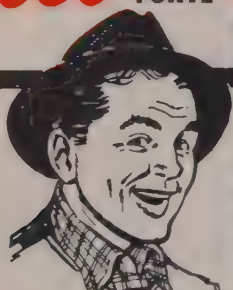
UNITED STATES STEEL

See manufacturer's listing page 16H, Yellow Section

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Dozer-Rooter easily adjusts to four rooting depths—9", 15", 21" or 27".



**an easy, low-cost way
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Put more profit in your winter operations with an ESCO Dozer-Rooter. Easily installed on a straight or angle dozer in a few minutes, it rips through hard-frozen ground quickly, economically. No need for blasting or thawing ground. The Dozer-Rooter costs less to own, less to operate and out-performs conventional rippers. It is portable enough to carry on the tractor or in a pickup truck. When ripping frozen ground, rock, concrete or asphalt, you have tractor maneuverability on narrow streets or confined areas—easy, efficient operation on steep slopes.

Precision control of the Dozer-Rooter permits safe operation around installations such as pipes, cables and footings.

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UTAH continued

State Hospital Medical & Surgical Building; Brigham Young University McKay 3-story building at \$1 million.

School building accounts for a sizeable amount of the construction dollar. Seven elementary schools in the area scheduled for completion in 1954 accounted for \$1,981,000. The Provo High School, to cost \$1,750,000 was started in October 1954 and is scheduled for completion in August 1955.

Additional new construction in the Provo area includes a new steel pipe plant being built immediately north of the Geneva Steel plant by Consolidated Western Steel Division. It is described as a multi-million dollar project. The plant site occupies 117 acres of which 5 acres will be under roof. Products will be small-diameter resistant-weld line and water pipe in sizes from 1 to 12 in., also large diameter pipe in sizes from 20 to 36 in. The plant should be completed and in operation by May 1955.

Additional buildings scheduled for Brigham Young University campus include a botanical laboratory and health center and a new \$2,500,000 men's dormitory. The health center and the laboratory will cost \$400,000.

Residential additions for 1955 in the Provo area are estimated to run between \$2,000,000 and \$3,000,000.

On the novelty side, work was underway on the US Air Force installation atop the Pioneer mesa near Virgin, Washington County. A \$126,000 contract was awarded to construct a 3½-mi. road to the top of the 1,500-ft. area. Work will be rushed to allow construction of the \$2 million rocket sled test track. The sleds will shoot out over a 1,500-ft. drop and provide a realistic test of pilot seat ejection models.

1954's BIG ONES IN UTAH

Plewe Construction Co. of Salt Lake City, construction of a high school in Provo—\$3,877,500.

Young & Smith Construction Co. of Salt Lake City, 7.9 mi. of grading at Emory Castle Rock—\$642,336.

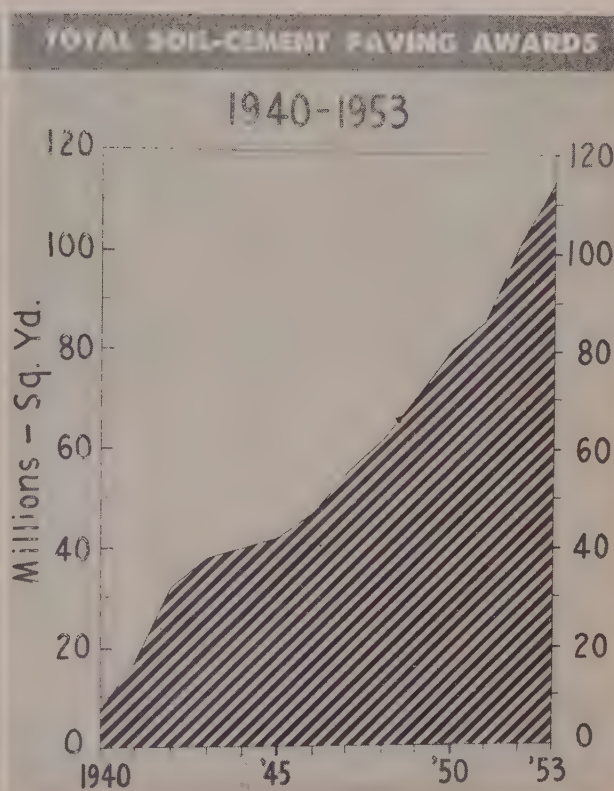
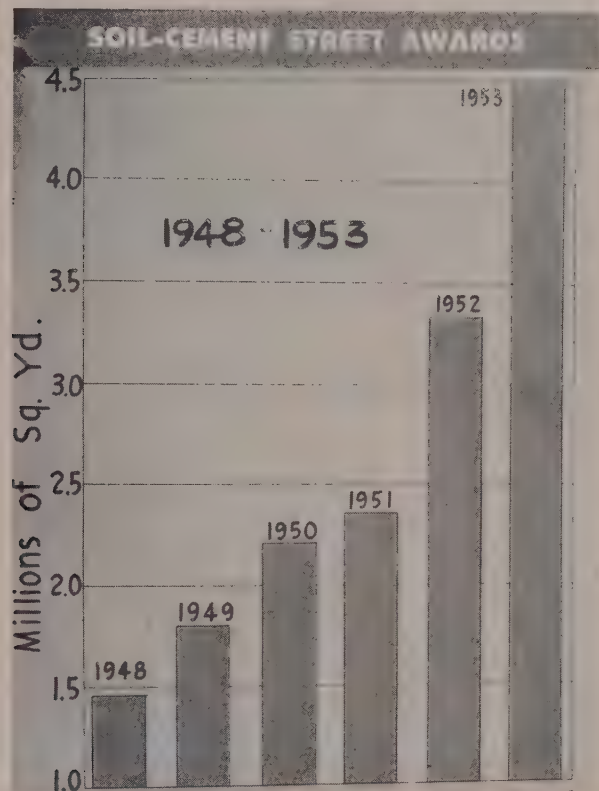
Morrison - Knudsen Co., Inc., of Boise, earthwork, concrete lining, and structures on Gateway Canal of the Weber Basin Project—\$1,948,812.

United Concrete Pipe Corp. of Baldwin Park, 17.8 mi. of concrete pipe installation on the Weber Basin Project—\$3,896,146.

Utah Construction Co. of Salt Lake City, construction of Wanship Dam as the third phase of the Weber Basin development—\$2,423,046.

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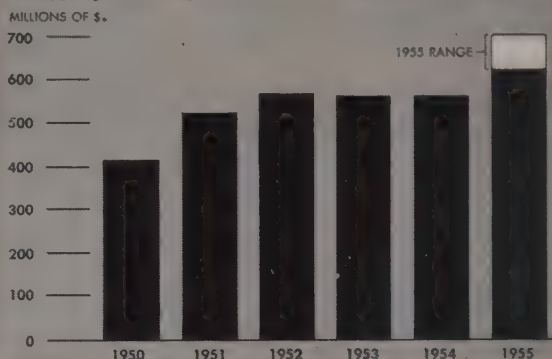
Subsidiary of PETTIBONE MULLIKEN CORP., Chicago, Illinois

See manufacturer's listing page 40H, Yellow Section

WASHINGTON

\$15,000,000 Gorge high dam leads parade of power projects to construction stage this year. Present demand for kilowatts assures other work to follow. Bond issue highway work will be supplanted by toll road building. Major cities move ahead on public works construction by bond funds. Reclamation completions bring more water, more people to Columbia Basin.

WASHINGTON HEAVY CONSTRUCTION



WASHINGTON IS THE DAM STATE for 1955. This is evident from the brief summary of activity set forth in the general introduction to this state-by-state Construction Outlook for the new year. Washington is the state where two separate multi-utility combines are planning big hydro projects. And Washington is the state where individual public and private utilities also have plenty of their own projects.

First to reach the contract stage for 1955 is the new Gorge Dam on the Skagit River. Merritt-Chapman & Scott Corp. and the Savin Construction Corp. were awarded a \$14,735,107 contract early in December. The work includes an arch-gravity section 150 ft. high and 670 ft. long, 4.5 mi. of access highway to this and other Skagit Project structures, and bridges. Unique in cofferdam construction will be the specified use of freezing to hold loose riverbed material. Continued pumping of percolating waters otherwise might lead to piping of fines and danger to the existing low-head diversion dam 500 ft. upstream.

Mayfield Dam on the Cowlitz River is expected to come to the bidding stage very shortly. This is one of two dams planned by Tacoma City Light. Mayfield itself will be a concrete arch dam with gravity wings and thrust blocks. It will be 185 ft. high and 850 ft. long, with a spillway section 205 ft. wide. Its powerhouse will be a concrete substructure and steel superstructure initially housing three generators rated at 40,000 kw. each.

Permits and licenses by FPC will prove the "partnership" plan

Other major dams are presently in the FPC permit or license-application stage. Permits cover the Priest Rapids project on the Columbia, the Boundary site on the Pend Oreille, the Wells site on the Columbia, the

Engletrout site on the Baker. Grant County P.U.D. has retained an engineer to perform power studies on Priest Rapids (1,590,000 kw.), and foundation exploration has been done also. Seattle City Light is studying Boundary (570,000 kw.) with a 300-ft. dam contemplated. Douglas County P.U.D. has the 588,000-kw. Wells site, and seismic exploration is under way. Engletrout is a Puget Sound Power & Light Co. project planned for 60,000 kw.

Additional, and tentative, plans of county public utility districts cover other hydro possibilities. And the major utilities themselves have other projects in mind, if not in the preliminary design stage. Singly and in combination, these utilities have their eyes on sites outside the state—Noxon Rapids on Montana's Clark Fork (385,000 kw., Washington Water Power Co. seeking license), Mountain Sheep and Pleasant Valley on the Snake (Pacific Northwest

Power Corp. seeking permit), Bruce Eddy on the Clearwater in Idaho (Pacific Northwest Power seeking permit).

Of the projects mentioned above the "hottest" is Noxon Rapids, whose sponsor is ready to go this year if a license is granted. The project will include an 1,120-ft. section of concrete, and earthfill wings totaling 3,200 ft. more. Height is 190 ft. Cost \$87,000,000.

State highway spending is up, and department is ready for more

A second big construction market in Washington is highways. Like its neighboring state of Oregon, Washington has for some years been building with bond issue funds in a principal effort to bring U. S. 99, the major north-south route, up to 4-lane standards. In addition the Puget Sound area poses its own peculiar bridging and freeway problems. A

BOX CANYON DAM river diversion added a dramatic scene to the '54 construction season. Here is the "hole" after cofferdamming and pumping out by Morrison-Knudsen. Concrete placing in winter months is next problem.



new crossing of Lake Washington is in the offing, and somewhat further in the future is a Puget Sound crossing, still being studied. The biggest highway undertaking contemplates a toll road all the way from Tacoma to Everett (65 mi.). Coverdale & Colpitts have reported favorably on feasibility. Tudor Engineering Co. and J. E. Greiner Co. have since conducted a final traffic study, with expectations of completing a report late last year.

Other toll facilities include a new bridge over Hood Canal on the Olympic peninsula, and one across the Spokane River in Spokane.

Progress on Washington's regular highway program in 1954 totaled about \$38,000,000—measured in contract awards during the year. For the new season coming up, work will proceed in accordance with an anticipated schedule of awards averaging \$3,500,000 per month. Thus, expenditures from normal and bond funds should total about \$42,000,000 for the year.

One of the most expensive projects and the most interesting from an engineering standpoint on the state highway system is the new First Avenue South Bridge over the Duwamish River in south Seattle. When the bridge was first under consideration, engineers foresaw foundation difficulties. Exploration showed solid bearing only at a depth of 220 ft. below sea level. In fact, from el. —32 to el. —220 were only fine silty sands and clays, giving resistance in many cases of only 4 to 9 blows per ft. to a standard penetrometer.

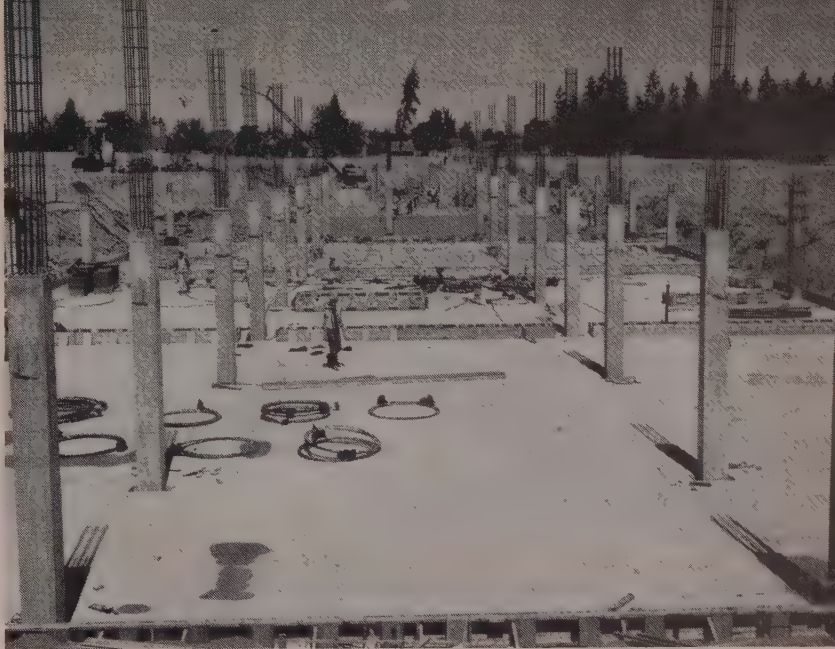
A floating pier design resulted. Buoyancy provides most of the support. The meager bearing value of the sand and clay strata is sufficient to carry about 15%. Contract for the pier work is held by General Construction Co. at \$1,387,655. Six more contracts will be awarded before the work is entirely under contract.

Spend \$80,000,000 each year? Highway director says "can do"

Access limitation on Washington highways is the subject of a master plan developed by the highway commission. About 1,960 mi. are eventually expected to be so controlled, with 417 mi. already so established.

Washington's highway director, W. A. Bugge, comments with confidence on his state's view of increased highway work under the "Eisenhower plan" or any fraction of it: "This state would find itself spending \$70,000,000 to \$80,000,000 per year for construction rather than the \$35,000,000 to \$40,000,000 spent now. That is quite an increase.

"But we can do the job, as evidenced by the fact that we have increased highway construction contract awards from \$25,000,000 in 1949



NEW TWIST on lift-slab technique is getting play on shopping center construction in Spokane. H. Halvorson, Inc., has the project, including 64,000 sq. ft. of lifting.

to \$44,000,000 in 1953. Certainly there will be problems connected with suddenly expanding our building program to the point indicated in the President's program. However, our engineering forces are in good shape and while we don't have any great number of projects in the design stage, we anticipate no problem on that score."

County roads: Men and methods are okay, but more money needed

Additional pressure for highway construction in Washington has come in recent years from development of the Columbia River Basin by the Bureau of Reclamation. A vast inland area that formerly lacked roads of any kind is now crisscrossed with paved highways at practically every section line. This has imposed a considerable burden on the county road departments, but to some extent of course increased funds have also been available from county property tax sources as well as from road user taxes.

The principal counties so affected are Adams, Grant and Lincoln. Grant County in particular has come up with a unique way of meeting demands. This is characterized by J. A. Dodson, county engineer, as "roads by the mile." Favored by a fair degree of uniformity in soil and terrain type, the county has been able, in some cases, to design a typical road section, locate a centerline, and call for bids on just one item, the road itself (per lin. mi.)!

Progressive methods characterize the administration of many Washington county road programs. Don-

ald B. West of Chelan County has adopted mobile short-wave radio extensively and effectively for his operations. Bridge analysis for Skagit County has included studies of prestressed concrete, though the major recent structure at Mt. Vernon does not employ this medium. Douglas County has employed rational methods—sufficiency ratings—for studies leading to the designation of new federal aid secondary routes in the county. These studies were reviewed by the county engineer, Pat Thomson, in an article in **Western Construction** in November 1954.

Expenditures in Walla Walla County are moving steadily up, from \$582,500 two years ago to a budgeted program of \$587,000 this year. A look at the report and recommendations prepared by B. Loyal Smith, county road engineer, reveals several interesting points. Combined revenues from gasoline and property taxes are lower than in 1953, as the increase in the total budget is considerably less, at \$4,500, than the increase in federal aid matching funds (\$15,500). The eternal problem of finding new construction money for county roads is reflected in figures for proposed regular maintenance (\$310,000) and new construction (\$200,000).

Smith notes that Walla Walla County for 5 yr. has adhered religiously to pre-planned annual programs. In fact, efforts for the past 4 yr. have been directed against a 10-yr. program laid out in 1950. Effectiveness of the program is shown by the fact that 4 yr. of work has resulted in 36% achievement. Two very rough winters, bringing extra doses of frost and run-off difficulties, are



GETTING ABOVE GROUND, Shell Oil's new refinery at Anacortes will hit \$75,000,000 before completion next year. Bechtel Corp. is prime contractor.

cited as justification for the minor lag of 4%.

Flexibility is provided in the new program by the device of adopting projects over and above budget allowances by about 40%. This lets the county road department roll with punches that might come in the form of right-of-way delays, poor weather, or shortages of materials or labor.

A final sampling of Washington county road plans is represented by Whatcom County. Farthest north and west of counties on the mainland proper, Whatcom is a traffic "bridge" and accordingly has found itself with an accelerating program. The construction budget last year was \$245,500. This year it is \$370,000—an increase of 50%.

Bridge construction is a feature of the county program, according to William Genther, county engineer. Under contract this month is a reinforced concrete continuous girder structure 270 ft. long and providing a 28-ft. roadway. It replaces a wooden pile bent trestle on an improved alignment.

County policy is for steady replacement of timber trestles with permanent structures, whether bridges or culverts. The eventual aim is to avoid what has historically been the necessity for bridge replacement on about a 15-yr. cycle.

For medium sized bridges, a concrete flat slab on precast piles has become standard, and two such structures are planned for construction this year. For very short locations precast inverted-U sections are used, the deck and beams being cast together. Eight have been completed in the past 2 yr. and 6 more are coming up this year. In one instance the design is being used on an 8-span structure.

City streets of Seattle continue to be the locale of large-scale construc-

tion and improvement as that city does its best to overcome natural physical bottlenecks built into its peninsular location. The 2-yr. program for 1955-57 features 11 projects totaling \$7,100,000. These include further extension of the Alaskan Way viaduct to the south, where it will be brought down to grade and then continued still further. Other work is concentrated on interchange structures to omit turn conflicts, widening of existing arterials, etc. The emphasis of this program is on arterial traffic needs.

Bond issue funds are green light for new cycle of city public works

The biggest single item is Alaskan Way, the two portions of which total \$4,850,000 in construction and right-of-way costs, all of which will be covered by the state. Seattle's own expenditures in the program come to about \$3,532,000. The future for this and additional work was assured last fall by the passing of a \$10,000,000 city bond issue for street improvements exclusively.

Three other bond issues were defeated at the same time. These would have been used for sewer improvement (\$5,000,000), street lighting (\$4,600,000), and city parks (\$3,500,000). The amounts are an index of needs that must be met in one way or another. For the present, regular expenditures of \$4,000,000 will continue—over and above the arterial program—for residential street improvements such as grading, sewers, water mains, paving, etc.

Bond issues in other Washington cities last fall add significantly to the construction work load coming up. In Spokane, the emphasis was on schools—\$6,000,000, with 80% slated for a single new high school plant.

Tacoma also passed bond issues,

the total being \$4,660,000 covering streets, sewers, and street lighting. And Renton okayed a \$327,000 general obligation bond issue for civic work, against which progress has already been made on one item, a \$110,000 bridge. The other major item will be a \$100,000 city swimming pool, plus street lighting and other improvements totaling \$117,000.

Among cities showing significant construction activity beyond bond issue programs is Spokane. School construction has been cited as the big item coming up. Second in importance is a \$6,000,000 bridge crossing of the river on Maple St. The structure itself has been estimated to cost \$4,610,000 in a report prepared for the city by Tudor Engineering Co. Most of this year would necessarily be spent in preparation of final plans and specs, with award of contracts possible by the end of 1955. Construction is estimated to cover 2 yr. Revenue bonds would be the method of financing, with tolls providing the revenue. Bonds will be issued by the Washington Toll Bridge Authority.

Last year was a very good one in Spokane. Reports at the end of October showed construction permits then totaling \$32,378,223, or 35% above 1953. The biggest single item initiated during the year was the \$1,750,000 coliseum. Other big commercial and industrial jobs ranged down to \$112,000. Just 13 representative projects totaled over \$6,500,000.

The expansion in Spokane has put a new burden on its water system. Expenditures on the north and south sides of the city during the next few years are expected to total nearly \$5,000,000. Immediately coming up, in the 1955 budget, are improvements totaling \$1,029,000.

Besides big hydro plans, electric utility "normal" spending is up

In the electric power utility field, hydro developments discussed earlier in this review dominate the future—even beyond 1955 alone. Figures for the current year, covering normal operating programs, are therefore deceptive. You can't build a dam in a day.

For instance, Seattle City Light has awarded over \$17,000,000 in a contract for one project. Yet the construction expenditures anticipated for this year alone total only about \$12,400,000. Last year the total was just under \$12,000,000. Here's how some of the major subtotals for the two years compare, 1954 followed by 1955: water power stations, \$7,000,000 and \$6,000,000; transmission plant substations, \$1,202,000 and \$3,216,000; distribution plant substations, \$3,100,000 and \$2,885,000.

Tacoma City Light routine work for a single year is likewise overshadowed by its proposed Cowlitz and Cushman work. Annual figures for 1954 and 1955, come to \$2,595,000 and \$2,752,000.

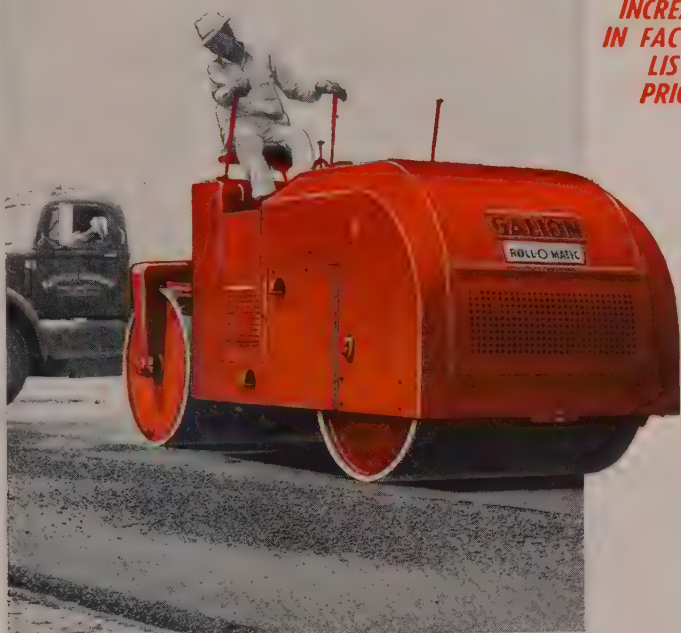
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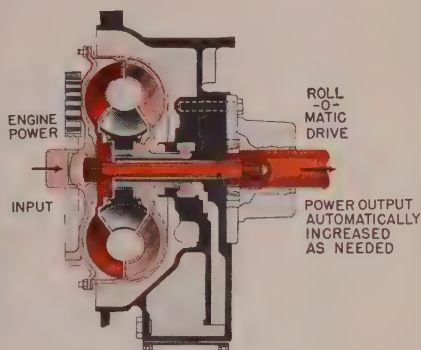


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Washington Water Power Co., while still uncertain as to possible spending that would accompany FPC okay of its Noxon Rapids project in Montana, plans expenditure of \$10,-250,000 on other system facilities in 1955. This represents a 55% jump from last year's figure of about \$6,-000,000. One big item is \$3,000,000 for transmission lines to Waneta, B. C.

Chief Joseph Dam: \$18,000,000 saved for use on other work

Turning now to the traditional big time of civil engineering construction in the state of Washington, the Corps of Engineers passed a milestone in construction of Chief Joseph Dam on the Columbia when the last mass concrete in the 981,000-cu. yd. structure was placed late in November 1954. Only blockout concrete around the gates and plugging of sluices passing the river now remains on the concrete schedule.

Funds to the amount of \$27,000,-000 are currently available to carry work forward on this project, and additional lettings are scheduled this year, almost entirely in electrical equipment totaling well over \$5,000,-000.

Chief Joseph is another Corps project—like The Dalles—which has been "marked down" in its price. Originally estimated to run almost \$187,000,000 in cost, it now is figured to total about \$169,000,000—the result of design and bidding economies.

At McNary Dam \$263,000,000 of an eventual \$287,000,000 has been accomplished. Work last year involved installation of four 70,000-kw. generating units, embedment of turbine parts, auxiliary equipment installation, and paving of roads and parking areas. McNary Dam Contractors completed a \$60,000,000 powerhouse contract in December, but remain at work on a \$2,000,000 job for turbine part embedment for 6 units.

Other contractors involved in furnishing and installing equipment include General Electric (12 generators), S. Morgan Smith (14 turbines), and Cascade Contractors (mechanical and electrical facilities).

Military work presently has the top hand in Washington efforts by the Corps. Walla Walla District anticipates awards totaling \$7,000,000 during the first half of the year—\$5,500,000 on Air Force projects, \$1,500,000 at Army installations. The Seattle District will be calling for bids on work at Fort Lewis and Mc-

Chord Air Force Base near Tacoma, Paine AFB near Everett, and Fairchild AFB near Spokane. Including work in Montana, coming awards are estimated to total over \$26,-000,000.

Estimated spending this year by the Seattle District, for Washington alone, totals \$43,400,000 on civil works, \$18,000,000 at Army bases, and \$19,000,000 for the Air Force.

Reclamation network still spreading over Columbia Basin

In the Columbia Basin irrigation works by the Bureau of Reclamation have now been completed for 131,000 acres, and water is therefore available on that area. Construction continues on another 55,000 acres, with emphasis on irrigation works.

For the Potholes East Canal lateral system, new work will include 31 mi. of canals and laterals, 74 mi. of laterals and wasteways, 6 mi. of pipeline, and a 160-cfs. pumping plant. Work on the West Canal lateral system will comprise 13 mi. of canal, 90 of open laterals, 6 of pipeline, and 14 small pumping plants.

Yakima Project work features 22 mi. of canal work under way, with 18 mi. more to begin this spring. Also, bid invitations will be issued next month for modifications to the Prosser diversion dam—raising it, altering the headworks, and enlarging 2 mi. of canal.

New railroad yards have lots of plain and fancy grading

Two extensive yard projects and reconstruction of a bridge mark construction by railroads in Washington these days. Northern Pacific was in the news during 1954 with completion of a 2-yr. \$6,000,000 job of raising and altering its Columbia River crossing at Pasco. Ten new pier were required, nine truss spans were moved, and the old swing span was replaced with a vertical lift span.

The same railroad began construction late in the year on a \$5,000,000 "push-button" retarder yard at Pasco. First of its kind in the northwest, the job will be finished this year. J. A. Terteling & Sons have the grading contract. Three new buildings totaling \$202,900 have just been let, and 77 mi. of track are to be laid in the new yard.

Union Pacific is finishing up a new yard in Spokane. The \$2,750,000 job was begun in 1953, and about 20% of the work carries over into 1955. Built on an entirely new site east of town, the yard encompasses construction of buildings, shops, utilities, track, and fuel storage.

AEC: "Hush" changes to "Sssh" as spending pressure drops

Western states activity by the Atomic Energy Commission can well be considered in this review of Washington construction, although California, Idaho and New Mexico facilities of AEC account for some of

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John Irving, Ramsay-Bird superintendent, points to PIONEER drier as it processes its millionth ton of material. Left to right on platform are Mike McCormick, plant foreman, Len Day and Lorne Mills. On the

ground are Irving, Jack Dunlop, and Doug Ramsay, director. At the time the photo was taken the plant was producing material for the Trans-Canada Highway east of Regina, expected to be one of Canada's finest.

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WASHINGTON continued

its expenditures. But the Hanford Works has featured the major construction activity—additional reactor capacity and chemical processing plant work. The chemical processing plant is expected to be in operation by the middle of this year, representing an expenditure of \$75,000,000. Reactor work has featured contracts by General Electric, Kaiser Engineers and Blaw-Knox, and this type of work is complete for present needs. The estimated construction volume figures for 1954 and 1955 reveal this: \$185,000,000 compared to \$95,000,000 for the West.

Methods used in Hanford construction include: tilt-up panels up to 40 ft. in height; movable steel forms for concrete placement in a 100,000-cu. yd. structure, effecting a saving of \$10 per cu. yd. in concreting costs; and successful use of several types of heavy aggregate for high density shielding concrete. Examples of these aggregates include barite, magnetite, limonite, and even scrap iron. The barite concrete, in particular, compares well in compressive strength to conventional rock concrete, but shows poor resistance to freezing and thawing.

Bonneville Power Administration activity last year totaled about \$40,000,000 in construction. This year the

estimated volume is \$37,000,000, including new start in Washington on McNary Dam switchyard facilities and continued work on transmission line from McNary to Portland and Vancouver (185 mi.) and connections to facilities of Puget Sound Power & Light Co. and Whatcom County P.U.D. Other work on the network is directed toward tying McNary to facilities in Oregon.

AGC working for contract volume closer to total construction volume

An industry note is provided by Sam C. Guess, executive secretary of AGC of the Inland Empire (Spokane). In eastern Washington and northern Idaho, study reveals about \$15,000,000 annually being spent on construction and maintenance by county forces and road districts, as much as two-thirds being handled by day labor. In behalf of the contractor members, AGC is launching a local program to sell the contract method more widely among the counties and districts involved. Additional new work by the chapter includes sponsorship of meetings between contractor and manufacturer personnel to improve techniques of equipment operation and maintenance. One meeting scheduled late in the year was to be at Moses Lake, spotlighting crawler track equipment maintenance

as seen by International Harvester, whose representatives were to conduct a "clinic."

The construction future in Washington, overall, is highlighted by aggressive and progressive action such as this by AGC, and by other signs as well: bold power programs by public and private utilities, realistic and carefully carried out county road construction, large scale city and state street and highway programs, and continued commercial and industrial expansion along the same lines that created today's needs.

1954's BIG ONES IN WASHINGTON

Bennett-Campbell, Inc., of Seattle, construction of a 4-story addition to the Bon Marche Department Store in Seattle—\$1,549,275.

Donald M. Drake and George Fuller of Portland, construction of structures to house B-52 planes at Moses Lake—\$5,514,000.

Peter Kiewit Sons' Co. of Longview, construction of the Skagit River Bridge north of Mt. Vernon—\$1,328,367.

Erickson Paving Co. of Bellevue, 1.2 mi. of grading and paving in Lewis County—\$1,029,714.

Cherf Brothers, Inc. and Sandkay Contractors, Inc., of Ephrata, earthwork, pipelines, and structures on the Columbia Basin Project—\$1,676,547.

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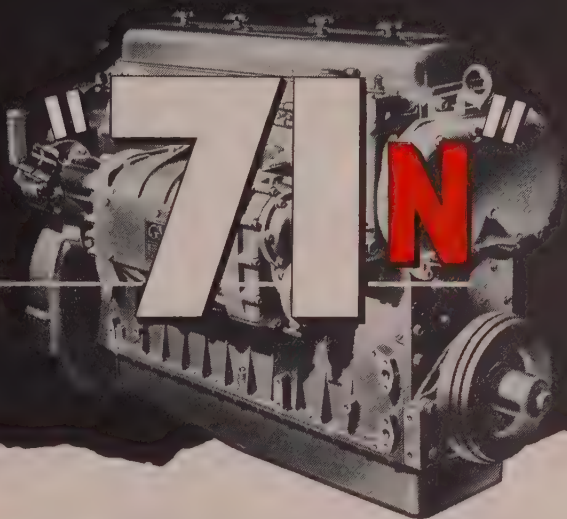
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WYOMING

Pipeline construction literally starts here, with lines into Missouri, Nebraska and Arizona. Reclamation is in the news again with \$6,270,000 in Glendo Dam construction just getting under way. Added federal aid bumps state highway spending to \$13,700,000. Casper marks a city building trend: 9 months of 1954 were 77% above all of 1953.

VARIETY AND INCREASING VOLUME characterize construction operations in Wyoming for the season just passed and for 1955. Highway construction will increase; initial \$6,270,000 contract has been awarded for Glendo Dam representing the largest Bureau of Reclamation project to start in 1954; pipeline work for both gas and oil reached a new high and the multi-million dollar resort at Jackson Hole highlights building construction in the state. Continued growth of Wyoming cities has resulted in corresponding municipal construction including an expansion of the water system for Cheyenne (15 mi. of transmission pipe up to 20-in. maximum size). More than \$3,000,000 of school construction has been under way during the past year in the northeast section of the state. A mining development which may total \$10,000,000 for the U. S. Titanium Corp., would include extensive access roads and structural

building. And a \$10,500,000 steam generating plant is being actively promoted to serve rural areas in eastern Wyoming from a site at Pine Bluffs. The Bureau of Reclamation started work during 1954 on Glendo Dam and power plant which will be constructed on the North Platte River about 4½ mi. southeast of the town. The project will involve an earthfill structure 207 ft. high and 2,200 ft. long involving 3,021,000 cu. yd. of fill. The power plant at Glendo will be of 24,000-kw. capacity and a second power plant will be constructed later in Fremont Canyon of 48,000-kw. capacity near the existing Pathfinder Dam. Late in November the contract was awarded to Lytle & Green of Sioux City, Iowa for the start of the Glendo Dam project, including about 7½ mi. of highway improvement and access road.

The Department of the Interior released figures late in 1954 indicating that it will expand about \$1,000,-

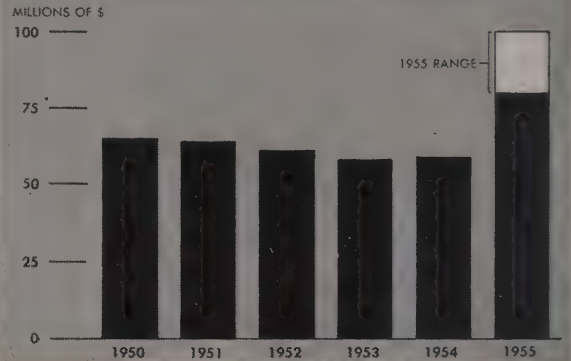
000 more on Bureau of Reclamation projects in Wyoming during the fiscal year of 1955 than in the preceding year. In addition the department is spending about \$2,750,000 in the state through the National Park Service, another \$616,000 through the Bureau of Mines, and \$540,000 in Geological Survey work. In addition to the Glendo project, Bureau of Reclamation activity will include \$450,000 on the Hanover Bluff unit and \$347,000 for work on the Eden project. The National Park budget will include for Wyoming \$170,000 for paving on the Jackson Lake road, \$615,000 for improvements of roads and other facilities in Grand Teton National Park, and another \$125,000 for road work between Yellowstone and Teton. Included in the operations of the Bureau of Indian Affairs will be \$140,000 for construction work.

Last year the Wyoming Highway Department, under the direction of J. R. Bromley, superintendent and chief engineer, completed \$12,458,000 of construction work during the season. With the increase in federal aid funds for the 1956 fiscal year the department anticipates that construction will total about \$13,750,000 for the coming construction season.

Early in the year the final contract was completed in a \$1,500,000 improvement program carried out by the department in the Cheyenne area when the Archer overpass was opened to traffic. This overpass built at a cost of \$507,000 completes the three-laning of Highway U. S. 30 from the city of Cheyenne east to the Nebraska state line.

The Bureau of Public Roads through Division 9 carried out construction work totaling \$1,950,000 on 46.9 mi. of highway during 1954 and plans to let contracts totaling \$1,370,000 for 34 mi. of highway work this coming season.

WYOMING HEAVY CONSTRUCTION



DRILL AND SHOOT means highway construction is costly in Wyoming. This is an S. Birch & Sons job near Alpine, part of a \$12,500,000 year that will be topped in 1955.



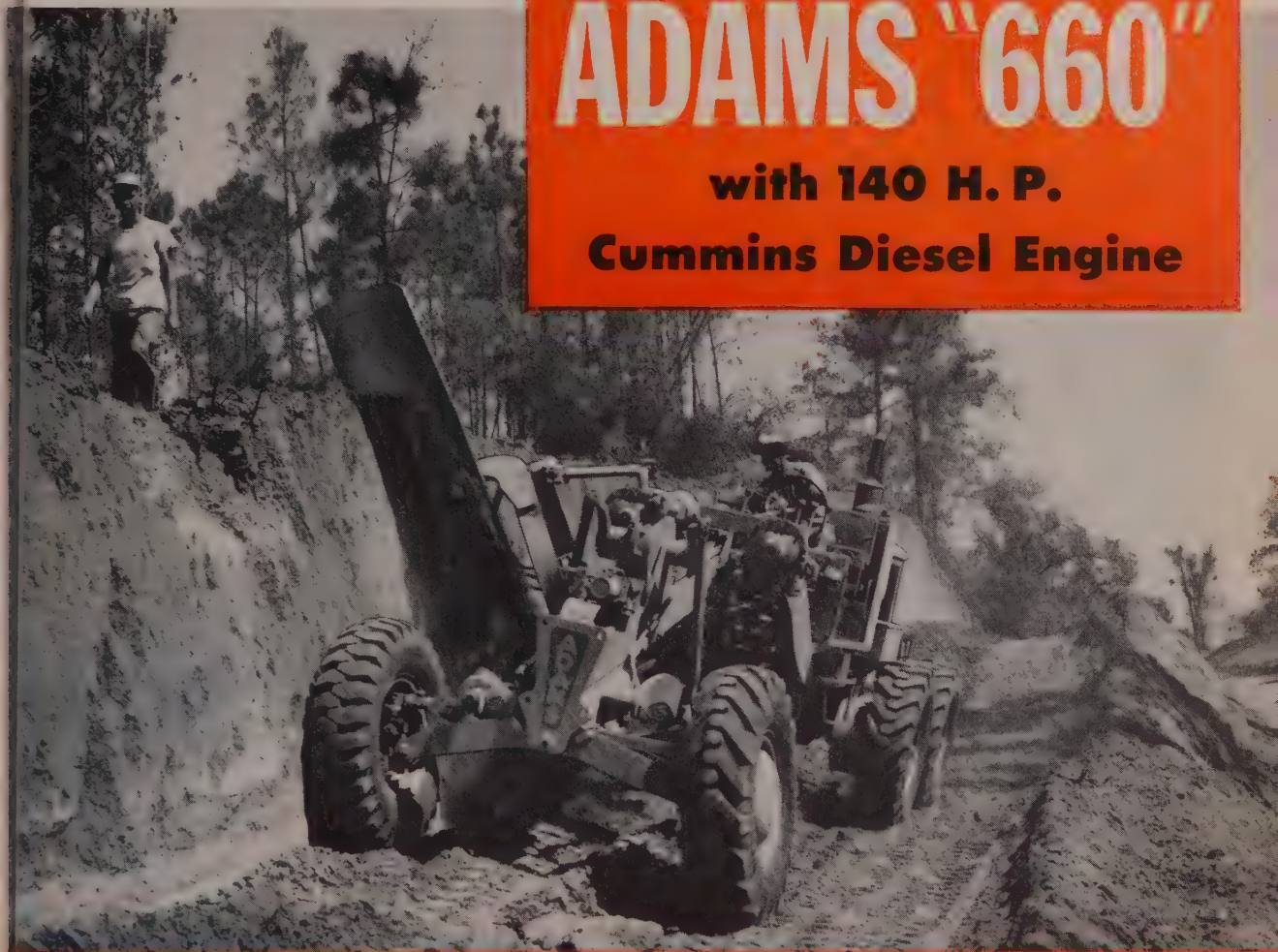
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This impressive fleet of Byers Truck Cranes is lined up to start a Walsh-Perini-Groves-Slattery Co. construction job for the United States Steel Fairless Plant at Morrisville, Penna.

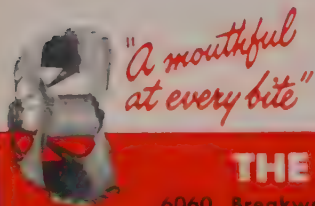
Four of these cranes are "Rigged for Results" for faster, more efficient excavating by being equipped with

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During the last bid opening of the Wyoming Highway Department in 1954 almost \$2,000,000 of road construction was put under contract covering 41 mi. of construction.

Pipeline construction projects during the 1954-55 season in Wyoming have been particularly active. These have included crude oil lines from Fort Laramie, a distance of almost 600 mi. into Missouri, another from Guernsey, Wyoming, a distance of almost 800 mi. into Arizona and a shorter line from Claretton field within the state to Casper, a distance of about 100 mi.

One of the major construction projects to be carried forward within Wyoming during 1954 has been the work on the Jackson Lake Lodge, a multi-million dollar recreation center located in Grand Teton National Park about 35 mi. north of the town of Jackson. Early in 1954 Morrison-Knudsen Co., Inc., completed work on the 256 guest cottage units which were opened during the past tourist season. Work continued on the main building which is a 3-story structure of concrete design.

The city of Laramie plans to carry out a \$175,000 program for storm drains and \$40,000 of water and sewer extensions during 1955.

In Casper a review of the last 3 years of construction activity would include a \$1,000,000 headquarters building for an oil company, \$2,300,000 in school improvements and an estimated \$60,000,000 of construction relating to the petroleum industry, including pipelines, refinery work and buildings. Population for Casper increased to 34,000 last fall from the 1950 census figure of 23,673. Present construction operations in the city include work on a \$575,000 junior college, almost \$1,000,000 for a hospital, and a \$500,000 bond issue was recently approved for a new airport terminal building.

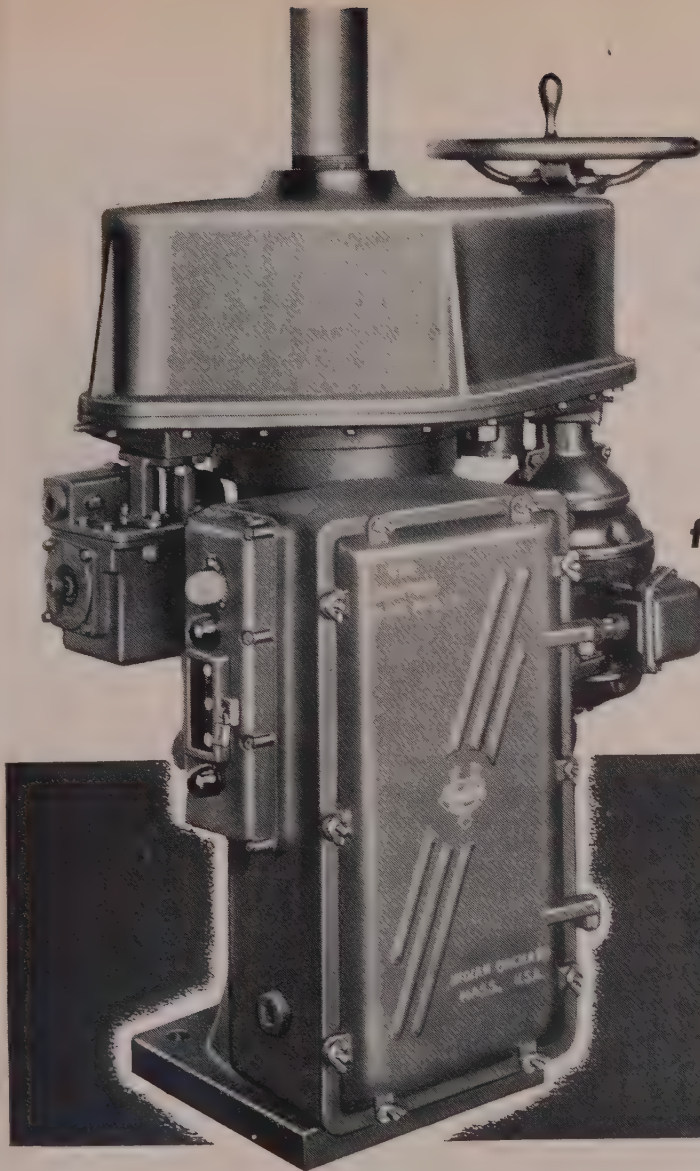
Late last year construction was completed on a 220-mi., 6-in. pipeline from Cheyenne to North Platte, Nebraska. The line was designed to carry refined products and represented a cost of about \$3,500,000.

1954's BIG ONES IN WYOMING

Inland Construction Co. of Omaha, 219 mi. grading and surfacing on the Thermopolis-Shoshoni road in Fremont and Hot Springs counties—\$529,429.

Woodward Construction Co. of Rock Springs, 11.7 mi. grading and surfacing near Rock Springs—\$367,977.

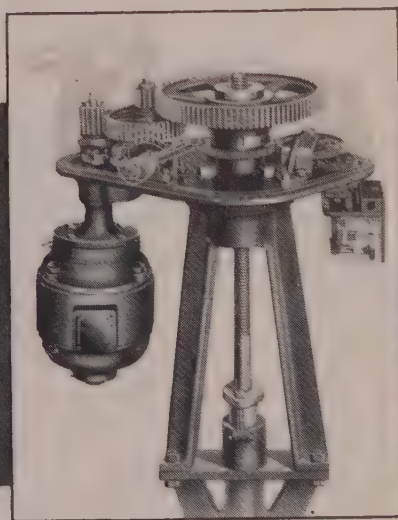
Knisely-Moore Co. of Douglas, 6.7 mi. grading and surfacing in Bighorn National Forest—\$582,000.



Floorstand equipped with Motor Unit . . . control panel, motor, limit switch and push button station.

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INDIAN ORCHARD, MASSACHUSETTS

ALASKA

Look (immediately to your right) for Alaska to "break even" this year. The Corps of Engineers has dropped from its record volume of two years ago but still controls the construction economy. Conventional public works—roads, schools and utilities—are a bigger percentage now, will continue as a stabilizing influence. 1955 to be the wind-up season for 620-mi. Haines-Fairbanks pipeline.

FOR THE PAST two years, and for the year to come, you have and will continue to have the illuminating monthly special feature on Alaska construction as presented by Cliff Cernick in his Alaska Newsletter. For the overall picture for the past year and for 1955, additional construction information has been assembled that should be of interest to everyone. The cooperation of many individuals and groups helped to bring you the following picture.

AGC view: "biggest trend toward public improvements in smaller towns"

Larry Moore, manager of the Alaska Chapter of the Associated General Contractors, is in a good position to analyze the trend of events. Here is what he has to say, "... Since the cessation of Korean combat the defense construction program in Alaska has been materially reduced. The year 1954 showed an important decline in new contracts and several large contractors left the Territory because of slackening in new major offerings and extremely poor prices resulting from excessive competition. Unless the international situation becomes critical there will probably be a continual reduction in projects of major proportions although new work will aggregate an appealing volume of business.

"It now appears that the heaviest concentration of defense construction to be completed in a six months period since the start of the multi-million dollar military program in Alaska will be accomplished between July and December of this year (1954). This will naturally have an effect on work to be carried over in 1955. Military authorities are planning more than \$145 million in defense construction for 1955, but this will probably be reduced to half that amount by the time it runs the gamut

of government appropriations unless serious difficulties arise in the field of international diplomacy.

"Private construction has just about reached its peak and housing requirements that were critical up to a year ago are now fully satisfied except in a few smaller communities where the volume is not too important. The biggest trend will be toward public improvements in smaller towns where schools, hospitals, public utilities, streets, sewers, etc., have been needed for many years. Indications are good for a number of smaller projects partially financed by federal assistance to community efforts."

Military construction is by far and away the major source of the con-

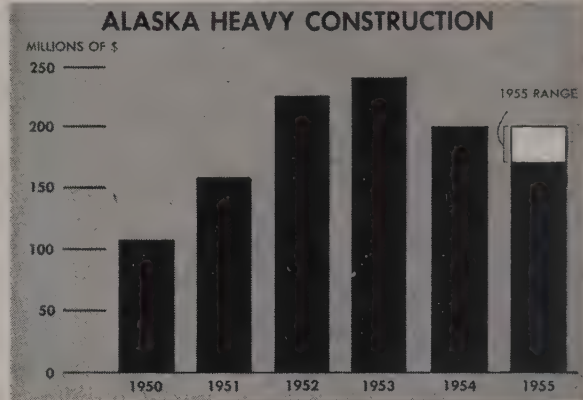
struction dollar in Alaska. Col. Carl Y. Farrell, Alaska District Engineer for the Corps of Engineers, has this to say about the amount of expenditures. "As you probably already are aware, the Civil Works side of the Corps of Engineers functioning in Alaska is quite small as compared with current military work and confined at least for the present to small river and harbor maintenance jobs and engineering studies for possible projects in the future. There were no construction projects of a Civil Works nature to report for calendar year 1954. One civil project is planned for calendar year 1955—a project at Kodiak. The job is estimated at less than \$100,000 and is to be scheduled for completion next year."

Road Commission: 200 mi. of grading, 100 mi. plant-mix

What can be expected in construction funds for road building in Alaska is ably stated by the Commissioner of Roads for Alaska, A. F. Ghiglione: "The following brief information is furnished ... details may not be released at this time because of regulations regarding disclosure of budget information before the meeting of Congress. The total cost of work proposed for the 1955 season will approximate \$17,200,000, of which \$3,900,000 will be spent on maintenance of existing roads and bridges.

"The construction funds will cover roughly 200 mi. of grading of new road and regrading of existing road, 100 mi. of asphalt plant-mix paving, and construction of 8 major bridges. This program continues the work of the Alaska Road Commission in the Territory at approximately the same rate carried on during the past construction season."

The biggest power project in the Territory was under the jurisdiction of the Bureau of Reclamation. Construction of the 4½-mi. Eklutna tunnel and alterations to the existing



ARMY: A FEW ARE UP

Dollar Volume of Work Estimated

| U.S. Air Force | | |
|------------------------|---------------------|---------------------|
| Installation | Cal. Yr. 1954 | Cal. Yr. 1955 |
| Eielson | \$13,983,000 | \$ 9,301,000 |
| Elmendorf | 28,073,000 | 26,292,000 |
| Ladd | 24,344,000 | 14,153,000 |
| Naknek | 71,000 | 3,213,000 |
| Miscellaneous .. | 2,841,000 | 14,298,000 |
| Total Air Force | \$69,312,000 | \$67,257,000 |

Dollar Volume of Work Estimated

| U.S. Army | | |
|-------------------------------|---------------------|---------------------|
| Installation | Cal. Yr. 1954 | Cal. Yr. 1955 |
| Big Delta | \$10,732,000 | \$ 3,183,000 |
| Eielson | 1,169,000 | 1,347,000 |
| Ft. Richardson .. | 10,798,000 | 5,986,000 |
| Kenai | 1,948,000 | 2,236,000 |
| Ladd | 3,064,000 | 5,058,000 |
| Whittier | 6,656,000 | 8,816,000 |
| Pipeline, Haines-Fairbanks .. | 27,989,000 | 9,960,000 |
| Miscellaneous .. | 1,002,000 | 2,301,000 |
| Total Army | \$63,358,000 | \$38,887,000 |

TOTAL VOLUME

OF WORK .. \$132,670,000 \$106,144,000

(Note: The figures for the calendar year 1954 are based on actual placement through September 30, 1954 and are estimated placement for the remainder of the year.)



for an ever-mounting demand . . .

A NEW WEST COAST SOURCE OF SUPPLY FOR

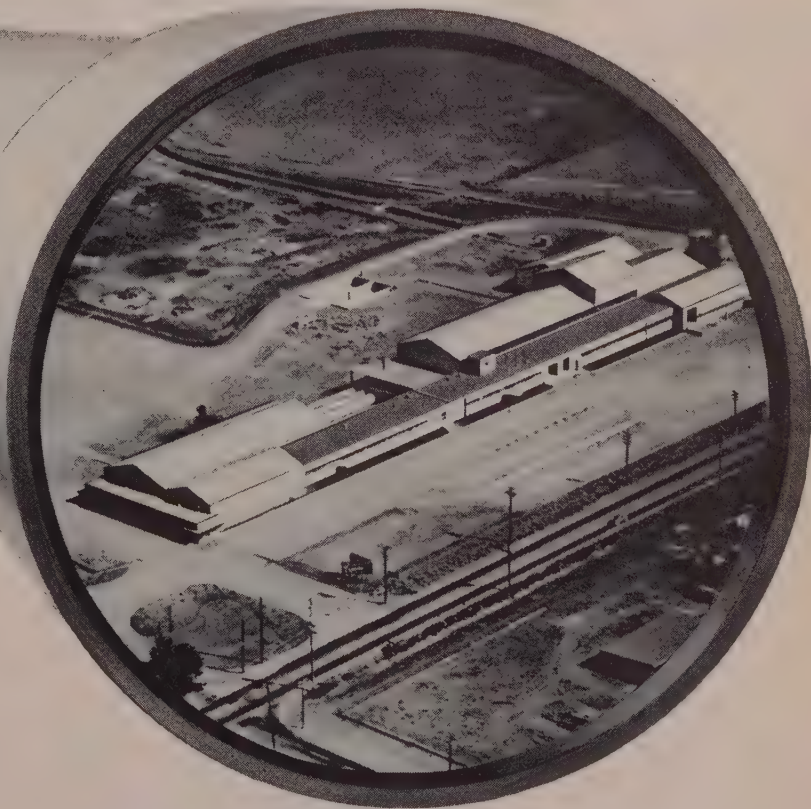
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Located on a 26 acre site and built at a cost of \$2,750,000, the ultra-modern design, equipment and facilities assure high quality control.

The addition of the Santa Clara plant to others located in St. Louis, Mo. and Ambler, Penna., makes possible better service and deliveries to meet the continually increasing demand throughout the United States for "Century" Pipe.

There are ample reasons for the growing popularity of "Century" Pipe for water mains. We shall be glad to tell you about them. Write for a copy of "Mains Without Maintenance" which contains important information on the use and installation of "Century" Pipe, the modern water main.

"Century" Pipe meets the A.W.W.A., A.S.T.M. and Federal Specifications for asbestos-cement pressure pipe.



Here illustrated is the Keasbey & Mattison new plant at Santa Clara, California, for the manufacture of "Century" asbestos-cement pipe for water mains.

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TILT-UP shaves costs in Alaska, too. This is J. H. Pomeroy's \$1,236,000 contract for composite shops at Whittier, now 80% complete. Tilt-up came north only 3 yr. ago.

ALASKA continued

Eklutna Dam were completed in 1954. The first 15,000-kw. unit of the Eklutna Power plant was placed in operation in December. The second unit of the same capacity is planned to go on the line early this year, bringing the plant to its full capacity of 30,000 kw.

This project, total cost of which is about \$33,000,000, has been under construction for the last 4 years. General contractors on this project have been the Palmer Constructors made up of joint venturers Coker Construction Co., Peter Kiewit Sons Co., and Morrison-Knudsen Co., Inc. This combine had the \$17,400,000 tunnel contract.

Base by base, what's going on at Alaskan installations

Here is a report on the status of some of the various large military projects under supervision of the Corps of Engineers as 1954 drew to a close and the long, cold winter set in.

ELMENDORF AIR FORCE BASE: Ahead of schedule the 7-story, 400-bed modern hospital is entirely inclosed and present interior work includes interior insulation, installing elevators, finishing ground floor slabs, and some electrical, plumbing and air duct.

Work was virtually completed during the summer on the huge West Elmendorf heat and power plant exterior. Steam and water lines are now being run into the building and in-

terior installations will continue through the winter.

The outfall sewer serving the Elmendorf Hospital area was completed ahead of schedule on the section between Bluff Road and the mainline in the railroad yard.

FORT RICHARDSON: Final interior work was being done on 46 buildings—each an 8-family quarter with 1, 2, and 3 bedrooms. Completion date was November 20. The \$1,503,160 general depot warehouse by Schmid & Lewis was 65% complete at year end.

WHITTIER: Inclement weather delayed several projects, but those where interiors could be closed in during the brief summer are ahead of schedule. These include the Post headquarters and telephone exchange and the composite shop. Several other contracts awarded in late summer cannot get under actual construction until the spring breakup, but preliminary work is underway. The \$3,788,713 permanent docking facilities held by Patti-MacDonald Construction Co. were about 25% complete in 1954.

LADD AIR FORCE BASE: Several major projects completed or nearly completed in 1954 include the power plant extension, electrical distribution system and substation, the heating plant and utilities, and POL bulk facilities. Security fencing, three airmen's dormitories and one mess and administration building with utilities were definitely completed. A large number of 8-family quarters, 16 under one contract and 30 under another, were scheduled to be turned over to the Air Force by the end of

the year. Automotive maintenance shops, organizational shops, and gas dispensing stations were turned over to the Air Force.

EIELSON AIR FORCE BASE: Only minor work remained to be done during the winter season on several projects. Seven 8-family quarters and the vehicle warm storage building were completed in October. Ammo storage igloos, 10 for the Air Force and 12 for the Army, were finished except for seeding. Access roads and the railroad spur neared completion.

BIG DELTA: Severe weather and strikes hampered work at the Army Arctic Center during the season. Ammo storage igloos were finished, exterior work has been done on several buildings, and interior work went forward on eight other buildings—the administration building, boiler plant, organizational maintenance shop, post engineer building, fire station, headquarters and telephone exchange, enlisted men's barracks, and class room building. The \$12,190,214 contract here held by Peter Kiewit Son's Co. & Early was about 85% at the end of 1954.

HAINES TO FAIRBANKS PIPELINE: This past season before winter closed in—two crews operating in Alaska and Canada welded virtually all of the 620 mi. long line. The \$29,000,000 project is scheduled for completion in September this year. It includes construction of a dock at Haines, pumping stations, storage, and housing facilities.

For Fiscal 1955 beginning next July, \$9,419,000 has been allotted the Alaska Public Works by the Department of the Interior. There are 19 projects in all included under this appropriation. Major ones include \$2,000,000 for a high school in Juneau; \$597,500 for utilities at the University of Alaska at Fairbanks; \$793,200 for sewer extensions at Anchorage; \$800,000 for the Pioneers' Home in Sitka; most of the remaining money is for schools in other cities. The projects will be constructed on a fifty-fifty local-federal matching fund basis.

1954's BIG ONES IN ALASKA

Mannix International Corp. of Winnipeg, 59 mi. of rehabilitation work for the Alaska Railroad from Seward to Portage—\$1,731,414.

Patti-MacDonald Construction Co. of Kansas City, construction of docking facilities at the Port of Whittier—\$3,788,714.

B.E.C.K. Constructors and McLaughlin, Inc., of Seattle, grading and construction of bridges on the Copper River Highway—\$2,739,390.

Grove, Shepherd, Wilson & Kruege, Inc., of Seattle, construction of eight 3-story dormitories and three mess-administration buildings at Ladd Air Force Base—\$4,196,083.

WESTERN CONSTRUCTION

1955 HANDBOOK

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CONTAINS . . .

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J.D. ADAMS MANUFACTURING CO.
217 S. Belmont Avenue
Indianapolis 6, Indiana

PRODUCTS: Motor Graders; Pull-Type Graders; Self-Propelled Belt-Type Loaders.

FACTORY BRANCH

| | | | |
|------------|---------------|-----------------|-----------------------|
| California | San Francisco | 230 Seventh St. | Harley J. Cooke, Mgr. |
| | | Parts Manager | Lee Hartwig |

REGIONAL MANAGERS

| | | | |
|------------|---------------|---------------|---------------|
| California | San Francisco | 230 - 7th St. | D.E. Hoffman |
| Colorado | Denver | 9190 Ogden | J.C. Carille |
| Washington | Spokane | 1127 W. 20th | B.W. Brereton |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| | Tucson | " |
| California | Bakersfield | Crook Co. |
| | Escondido | Southern Equipment & Supply Co. |
| | Eureka | Howard-Cooper Corp. of Calif. |
| | Fresno | Allied Equipment Co. |
| | Los Angeles | Crook Co. |
| | Stockton | Graco |
| | Oakland | Bay Cities Equipment, Inc. |
| | Redding | Sullivan & Grove Equipment Co. |
| | Riverside | Bramen-Dickerson Co. |
| | Sacramento | Sacramento Valley Tr. Co. |
| | Salinas | Farmers Mercantile Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | Santa Maria | Hanson Equipment Co. |
| | Stratford | Orton's Equipment Co. |
| | Visalia | Exeter Mercantile Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " |
| Montana | Billings | Industrial Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| | Missoula | " |
| Nevada | Reno | Nevada Equipment Service, Inc. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Central Point | " |
| | Coquille | " |
| | Eugene | " |
| | Portland | " |
| | Roseburg | " |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |

ALLIS-CHALMERS MANUFACTURING CO.
(Tractor Division)
P.O. Box 512
Milwaukee 1, Wisconsin

PRODUCTS: Motor Graders; Crawler and Wheel Tractors; Power Units; Motor Scrapers; Motor Wagons; Pull-type Scrapers.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|----------------|
| California | Los Angeles | Manager | L.D. Benedict |
| | Oakland | " | G.W. Schierman |
| Idaho | Pocatello | " | A.D. Reichard |
| Montana | Billings | " | J.E. Beqley |
| Oregon | Portland | " | S.O. Anderson |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Equipment Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Eureka | Alkins Tractor Co., Inc. |
| | Fresno | Moore Equipment Co., Inc. |
| | Los Angeles | Shaw Sales & Service Co. |
| | Oakland | Buran Equipment Co. |
| | Redding | Moore Equipment Co., Inc. |
| | Sacramento | " |
| | San Diego | Shaw Sales & Service Co. |
| | Santa Clara | Buran Equipment Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Southern Idaho Equipment Co. |
| | Idaho Falls | " |
| | Twin Falls | " |
| Montana | Billings | Seltz Machinery Co. |
| | Great Falls | " |
| | Kalispell | Mountain Tractor Co. |
| | Missoula | " |
| | Sidney | Richland Machinery Co. |
| | Elko | A-D Machinery Co. |
| Nevada | Reno | Moore Equipment Co., Inc. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| | Roswell | Smith Machinery Co., Inc. |
| Oregon | Eugene | Pape Brothers |
| | Medford | Haupt Tractor Co. |
| | North Bend | Pape Brothers |
| | Portland | Wood Tractor Co. |
| | Roseburg | Pape Brothers |
| | The Dalles | Dielschneider Equipment Ore., Ltd. |
| Utah | Salt Lake City | Cate Equipment Co., Inc. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | American Machine Co. |
| | Wenatchee | Mid-State Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

ALL PURPOSE SPREADER CO.
Feller Road
Elyria, Ohio

PRODUCTS: Spreaders; Wideners; Rollers; Bituminous Pavers.

AMERICAN AIR FILTER CO., INC.
Herman Nelson Division
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: Portable Space Heaters.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| California | Fresno | Edward R. Bacon Co. |
| | Oakland | " |
| | Sacramento | " |
| | San Francisco | " |
| Idaho | Boise | Intermountain Equipment Co. |
| | Idaho Falls | Arnold Machinery Co. |
| | Pocatello | Intermountain Equipment Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | " |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | Western Machinery Co. |
| | Tacoma | A.H. Cox & Co. |
| | Wenatchee | " |

AMERICAN CHAIN & CABLE CO., INC.
Bridgeport 2
Connecticut

PRODUCTS: Wire Rope.

FACTORY BRANCHES

| | | | |
|------------|---------------|---------|----------------|
| California | San Francisco | Manager | George F. Lehr |
| Colorado | Denver | " | Paul D. Steele |

DISTRICT REPRESENTATIVES

| | | | |
|------------|-------------|-----------------------|---------------|
| California | Los Angeles | 2216 S. Garfield Ave. | R.S. Heffner |
| Oregon | Portland | 2210 NW Roosevelt St. | J.L. Schobert |

DISTRIBUTORS

| | | |
|----------------|-----------------------|-------------------------------------|
| Arizona | Kingman | Tarr McComb & Ware Commercial Co. |
| | Phoenix | Complete Auto & Home Supply Co. |
| | Tucson | " |
| California | Allures | Mohy & Van-Dyke, Inc. |
| | Bakersfield | Davies Machinery Co. |
| | Chico | Sierra Tractor & Equipment Co. |
| | Delano | Manley Equipment Co. |
| | " | Treanor Equipment Co. |
| | El Centro | Valley Auto Supply Co. |
| | Fresno | Levi's Iron & Metal Co. |
| | Grass Valley | Mine Machinery & Supply Co. |
| | Gridley | Sierra Tractor & Equipment Co. |
| | Hanford | Davies Machinery Co. |
| | Long Beach | Herley Supply Co. |
| | Los Angeles | American Equipment & Body Co. |
| | " | Cable Distributors, Inc. |
| | " | Dinsmore Equipment Co. |
| | " | Gridley Equipment Co. |
| | " | Perclval Steel & Supply Co. |
| | " | Shepherd Tractor & Equipment Co. |
| | " | C.W. Marwedel |
| Oakland | Porterville | Porterville Tractor Co. |
| | Treanor Equipment Co. | Treanor Equipment Co. |
| Red Bluff | | Sierra Tractor & Equipment Co. |
| Redding | | " |
| Riverside | | Bramen-Dickerson Co. |
| Sacramento | | Sacramento Valley Tractor Co. |
| San Diego | | Drake & Bullen |
| " | | Industries Supply Co. |
| San Francisco | | C.F. Bulotti Machinery Co. |
| " | | C.W. Marwedel |
| " | | Haviste Co. |
| San Leandro | | Tractor & Equipment Co. |
| Santa Maria | | Hansen Equipment Co. |
| San Pedro | | Marine Hardware Co., Inc. |
| Stockton | | Gelger Iron Works, Inc. |
| Tulare | | Treanor Equipment Co. |
| Visalia | | " |
| Weaverville | | Western Auto Supply Co. |
| Willow Creek | | Willow Creek Lumber Supply |
| Alamosa | | Barber Sales Co. |
| Creede | | Tomkins Hardware Co. |
| Denver | | Constructors Equipment Co., Inc. |
| " | | Ray Corson Machinery Co. |
| " | | Industrial Supply Co. |
| " | | Power Equipment Co. |
| " | | Prefabricators, Inc. |
| " | | Joe Smith Machinery Co. |
| " | | Tri-State Equipment Co. |
| Durango | | Graham Hardware Co. |
| Grand Junction | | Pacific & Western Industrial Supply |
| Sterling | | Mid Continent Supply Co. |
| Trinidad | | Quilitch Implement & Supply Co. |
| Boise | | Kovell & Richards |
| Billings | | Great Northern Tool & Supply Co. |
| " | | Hall-Perry Machinery Co. |
| " | | Nash-Davis Machinery Co. |
| Bozeman | | Montana Motor Supply, Inc. |
| Butte | | Hall-Perry Machinery Co. |

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

AMERICAN CHAIN & CABLE CO., INC. (CONTINUED)

| | | |
|------------|----------------|---|
| | Chester | Hall-Perry Machinery Co. |
| | Cul Bank | Great Northern Tool & Supply Co. |
| | Glendive | Quarndt, Brink & Reibold Co. of Montana |
| | Great Falls | Hall-Perry Machinery Co. |
| | Helena | A.M. Holter Hardware Co. |
| | Kalispell | Ind. Supply Div. of Forest Products Co. |
| | Kevin | Great Northern Tool & Supply Co. |
| | Livingston | Montana Motor Supply, Inc. |
| | Missoula | Hall-Perry Machinery Co. |
| Nevada | Las Vegas | James Cashman |
| | Reno | Sanford Tractor & Equipment Co. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| | Carlsbad | Union Industrial Corp. |
| | Farmington | Mid Continent Supply Co. |
| | Roswell | Clove & Cowan, Inc. |
| Oregon | Klamath Falls | Moly & Van Dyke, Inc. |
| | Lekeview | " " " " |
| | Lyons | Gooch Logging Supply Co. |
| | Philomath | " " " " |
| | Portland | Active Equipment Co. |
| | " | Marshall-Wellis Co. |
| | Roseburg | Triangle Logging Supply, Inc. |
| | Sweet Home | Gooch Logging Supply Co. |
| Utah | Ogden | Geo. A. Love Company |
| | Provo | Ahlender Hardware Co. |
| | Salt Lake City | National Equipment Co. |
| Washington | Seattle | Hulse Machinery Co. |
| | Spokane | Jensen-Byrd Company |
| | Tacoma | Cable Craft Engineering Co. |
| Wyoming | Casper | Century Supply Co. |
| | " | Great Northern Tool & Supply Co. |
| | " | Mid Continent Supply Co. |
| | " | Worthing Machinery Co. |
| | Cheyenne | " " " " |
| | Greybull | Nash-Davis Machinery Co. |
| | Kemmerer | Frontier Supply Co. |
| | Rock Springs | Worthing Machinery Co. |
| | Sheridan | " " " " |

THE AMERICAN COLEMAN CO.
301 South Nevada
Littleton, Colorado

PRODUCTS: Front Drive Truck Axles; All Wheel Drive Trucks;
All Wheel Drive Specialized Tractors; Prime Movers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| California | Berkeley | Work Hoist & Body Co. |
| | Los Angeles | American Equipment & Body Co. |
| Colorado | Denver | American-Coleman Co. |
| Idaho | Boise | The Lang Co. |
| Montana | Billings | HCL Equipment Co. |
| New Mexico | Albuquerque | Winter Weiss Co. of New Mexico |
| Oregon | Portland | Rudy Yost Truck Equipment Co. |
| Utah | Salt Lake City | The Lang Co. |
| Washington | (Portland) | Rudy Yost Truck Equipment Co. |

AMERICAN HOIST & DERRICK CO.
63 South Robert Street
St. Paul 1, Minnesota

PRODUCTS: Derricks; Hoists; Blocks & Sheaves; Crosby Clips;
Portable Material Elevators; Carpullers; Tractor-
winches; Crawler & Rubber Mounted Cranes; Shovels;
Backhoes and Draolines.

DISTRICT MANAGERS

| | | | |
|------------|---------------|---------------------|---------------|
| California | Long Beach | 6138 E. Tanagerwood | H.L. Lindberg |
| Washington | Mercer Island | 9052 E. Shorewood | R.H. Lampman |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Los Angeles | Cook Bros. Equipment Co. |
| | San Francisco | Coast Equipment Co. |
| | " | Thomas A. Short Co. |
| Colorado | Denver | Constructors Equipment Co., Inc. |
| Idaho | Boise | The Sawtooth Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " " |
| | Great Falls | " " " " |
| | Missoula | " " " " |
| New Mexico | Albuquerque | Constructors Equipment & Supply Co. |
| Oregon | Portland | Andrews & Andrews Equipment |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | Andrews Machinery of Washington, Inc. |
| Wyoming | Cheyenne | Wilson Equipment & Supply Co. |

AMERICAN TRACTOR EQUIPMENT CORP.
9131 San Leandro Blvd.
Oakland 3, California

PRODUCTS: Outside Mounted and Inside Mounted Dozers; Road-
builders (Anole Blade); Hydraulic Scrapers; Front End
Loaders; Tractor Mounted Rock Ripers.

DISTRIBUTORS

See your local Crawler Tractor Distributor.

AMERICAN TRACTOR CORPORATION
Churubusco
Indiana

PRODUCTS: Crawler Tractors; Anoledozers; Bulldozers; Loaders;
Scarifiers; Snow Plows.

REGIONAL SALES MANAGER

Montana Billings 35 Lewis St. G.A.W. Bell

REGIONAL SERVICE MANAGER

California Burlingame 1510 Forest View John Varner

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| California | Berkeley | West Coast Engine & Equipment Co. |
| | Los Angeles | Electric Tool & Supply Co. |
| Colorado | Denver | Western Machinery Co. |
| Oregon | Portland | Northern Industries, Inc. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Spokane | Northern Industries, Inc. |

ANTHONY COMPANY
Streator
Illinois

PRODUCTS: Hydraulic Hoists and Dump Bodies for Motor Trucks.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Auto Safety House |
| California | Los Angeles | Lambert Co., Ltd. |
| | Oakland | C & C Trailer & Body Co. |
| Colorado | Denver | Winter-Weiss Co. |
| Montana | Billings | Eaton Metal Products Co. |
| New Mexico | Albuquerque | Winter-Weiss Co. |
| Oregon | Portland | Northwest Truckstell Sales, Inc. |
| Utah | Salt Lake City | Utah Truck Equipment Co. |
| Washington | Seattle | Nelson Truck Equipment Co., Inc. |
| | Spokane | Critzer Equipment Co. |

ARMCO DRAINAGE & METAL PRODUCTS, INC.
Middletown
Ohio

PRODUCTS: Corrugated Met Pipe; End Sections; Spiral Welded Steel
Pipe; Metal Retaining Walls; Guardrail, Structural
Plate Pipe; Arches and Pipe Arches; Steel Buildings;
Pile Sheets and Caissons; Steel Pipe Piles; Water
Control Gates; Flumes; Steel Liner Plate; Steel Sheeting;
Corrugated Metal Bridge Plank.

WESTERN SALES ORGANIZATION

| | | | |
|------------|----------------|----------------|-----------------------|
| Arizona | Phoenix | C.J. Sturm | State Sales Mgr. |
| California | Berkeley | M.H. Bailey | District Sales Mgr. |
| | Los Angeles | J.E. Kunkler | District Sales Mgr. |
| | " | " | So. Calif. and Ariz. |
| Colorado | Denver | Roy Grant | Dlv. Sales Manager |
| Idaho | Boise | R.S. Shriver | Sales Engineer |
| Montana | Billings | J.B. Dean | State Sales Mgr. |
| New Mexico | Albuquerque | A.A. Mosher | " " " " |
| Oregon | Portland | D.J. Stoker | Dlv. Sales Manager |
| | Salem | George Schwarz | State Sales Mgr. |
| Utah | Salt Lake City | F.R. Randle | Sales Mgr.-Utah-Idaho |
| Washington | Olympia | E.E. Bodwell | State Sales Mgr. |
| Wyoming | Casper | F.D. Aelitis | Sales Engineer |

ARROW TOOLS, INC.
1900 So. Kostner Ave.
Chicago 23, Illinois

PRODUCTS: Pneumatic Accessory Tools; Chisels; Star Drills;
Rivet Sets; Steel Erection Tools; Safety Chisel
Retainers for Chipping and Riveting Hammers; Air
Line Filters & Lubricators.

DISTRIBUTORS

| | | |
|------------|-------------|--------------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| | " | Western Machinery Co. |
| California | Los Angeles | American Pneumatic Tool Co. |
| | " | Air Power Tools, Inc. |
| | Oakland | Paul Berkeley Equipment & Supply Co. |
| Colorado | Denver | Gunderson & Taylor Machinery Co. |
| Wyoming | Casper | Wyoming Automotive Co. |

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND
ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS
ALL THE WEST

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

ATHEY PRODUCTS CORPORATION
5631 West 65th Street
Chicago 38, Illinois

PRODUCTS: Rubber-tired Dump Trailers; Force-Feed loaders; Dump and Hauling Trailer Wagons; Mobiloaders; Portable Breaker Units; Forged-Trak Wheels.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Machinery Co. |
| | Yuma | Braden Machinery Co. |
| California | Blythe | Honnen Machinery Co. |
| | Chico | Sierra Tractor & Equipment Co. |
| | Colusa | I.G.Zumwalt Company |
| | El Centro | Faure Tractor & Equipment Co. |
| | Eureka | Brizard-Matthews Machinery Co. |
| | Fresno | Budd & Quinn, Inc. |
| | Hanford | Devies Machinery Co. |
| | Los Angeles | Shepherd Tractor & Equipment Co. |
| | Marysville | Marysville Tractor & Equipment Co. |
| | Merced | Hilton Tractor Co. |
| | Modesto | Valley Tractor & Equipment Co. |
| | Napa | Berglund Tractor & Equipment Co. |
| | Oxnard | Wallace Machinery Co. |
| | Riverside | Johnson Tractor Co. |
| | Sacramento | Weaver Tractor Co. |
| | Salinas | Prinole Tractor Co. |
| | San Diego | San Diego Tractor & Equipment Co. |
| | San Jose | Ditz Bros. |
| | San Leandro | Peterson Tractor & Equipment Co. |
| | Santa Maria | Joseph G. Moore Co. |
| | Stockton | Holt Bros. |
| | Visalia | Treanor Equipment Co. |
| Colorado | Denver | McCoy Company |
| Idaho | Boise | Bunting Tractor Co., Inc. |
| | Idaho Falls | Parkinson Tractor Co. |
| | Lewiston | Nex Perce Tractor & Equipment Co. |
| Montana | Billings | Nash-Davis Machinery Co. |
| | Great Falls | Central Machinery Co. |
| | Missoula | Westmont Tractor & Equipment Co. |
| | Sidney | Tractor & Equipment Co. |
| | Reno | Sanford Tractor & Equipment Co. |
| | Las Vegas | James Cashman Co. |
| New Mexico | Albuquerque | R.L.Harrison Co., Inc. |
| Oregon | Klamath Falls | Crater Lake Machinery Co. |
| | Le Grande | Inland Machinery Co. |
| | Pendleton | Empire Machinery Co. |
| | Portland | Interstate Tractor & Equipment Co. |
| Utah | Logan | Peterson Tractor Service |
| | Salt Lake City | Wheeler-Kershaw Co. |
| Washington | Seattle | Collins Machinery Co. |
| | " | Northern Commercial Company |
| | Spokane | Byrne-Ferris Machinery Co. |
| | Tacoma | Murphy-Campbell Co. |
| | Walla Walla | Braden Tractor & Equipment Co., Inc. |
| | Yakima | Webb Tractor & Equipment Co. |
| | Wenatchee | Columbia Tractor Co. of Wenatchee |
| Wyoming | Cheyenne | Wortham Machinery Company |

ATLAS SCRAPER & ENGINEERING CO.
6203 Maywood Avenue
Bell, California

PRODUCTS: Farm Equipment; Two-way Plows; Land Levelers; Graders; Scrapers; Rippers; Dozers and Levelers for small Tractors; Sub-Sollers.

SEE YOUR LOCAL TRACTOR DEALER

AUSTIN-WESTERN COMPANY
601 N. Farnsworth Avenue
Aurora, Illinois

PRODUCTS: Power Graders; Road Rollers; Street Sweepers; Hydraulic Cranes.

DISTRICT MANAGERS

| | | | |
|------------|---------------|-------------------|----------------------|
| California | San Francisco | 33 Clementine St. | J.E. Huber |
| | " | " | Fred Bourquin, Asst. |
| Colorado | Denver | 6815 W. 14th St. | W.E. Chapman |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Los Angeles | Smith Booth Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Liberty Trucks & Parts Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| Montana | Billings | Western Construction Equipment Co. |
| | Great Falls | " |
| | Missoula | " |
| | Reno | C.D. Roeder Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Columbia Equipment Co. |
| Wyoming | Casper | Kereml Tractor & Equipment Co. |
| | Cheyenne | " |

BADGER MACHINE COMPANY
1124 West Fifth Street
Winona, Minnesota

PRODUCTS: Hapto Dique; Badger Trencher.

SALES REPRESENTATIVE

Oregon Salem 3290 Portland Rd. Joseph J. Tandest

DISTRIBUTORS

| | | |
|------------|----------------|--|
| California | Los Angeles | Calvold, Inc. |
| | Sacramento | Island Equipment Co. |
| Colorado | Denver | King & East Machinery Co. |
| Montana | Billings | Calrd Engineering Works |
| | Helena | " |
| | Kalispell | Mountain Tractor Co. |
| | Missoula | " |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Air-Mac, Inc. |
| | Spokane | Andrews Equipment Service of Wash., Inc. |
| Wyoming | Casper | Western Equipment Co. |

THE BAKER-LULL CORPORATION
314 W. 90th Street
Minneapolis 20, Minnesota

PRODUCTS: Shovelloaders; Tilling-Tower Universal Loaders; Hydra Sweepers; 4-Wheel Drive Shovelloaders; Model 20 Shovelloaders.

DISTRICT MANAGERS

| | | | |
|------------|-------------|------------------|--------------|
| California | Los Angeles | 1428 12th Ave. | Frank Larkin |
| Oklahoma | Tulsa | 1125 E. 36th St. | Walter Reed |

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Cottonwood | Western Welding & Sales (C) |
| | Little Rock | Arizona Equipment Sales, Inc. (C) |
| | Phoenix | O.S. Stapley Company (E) |
| | " | Superior Equipment Co. (A) |
| | " | Western Machinery Co. (C) |
| California | Bakersfield | Motor Truck Sales & Service (B) |
| | Bishop | J.S. Olev (A) |
| | Berkeley | West Coast Enrole & Equipment Co. (E) |
| | Chico | Cal-Built Tractor Company (B) |
| | Colton | Condalia Tractor Company (B) |
| | Escondido | Willis Tractor & Equipment Co. (B) |
| | Eureka | Gustafson Tractor Company (B) |
| | Fresno | Jlm Ingle Company (B) |
| | " | Reynolds Equipment Co. (A) |
| | " | Stone Diesel & Supply Co. (D) |
| | Lakeport | Wolvin W. Prather (A) |
| | Los Angeles | Casew-Mitchell Machinery Co. (C) |
| | " | Electric Tool & Supply Co. (A) |
| | " | Essick Machinery Company (E) |
| | Merced | Polzine Farm Equipment (B) |
| | Napa | Warner-Ritz Tractor & Equipment Co. (B) |
| | Redding | Louvy Equipment Co., Inc. (B) |
| | Sacramento | Equipment Sales & Service Co. (A, E) |
| | " | Flood Equipment Company (B) |
| | Salinas | Ashon Equipment Company (B) |
| | San Bernardino | Electric Tool & Supply Co. (A) |
| | San Diego | Willis Tractor & Equipment Co. (B) |
| | San Francisco | Coast Equipment Co. (C) |
| | " | Contractors Machinery Co. (A) |
| | San Jose | Lofano & Ross Tractor & Equipment Co. (A) |
| | " | Mech. Farm Eq. Dist., Inc. (B) |
| | San Leandro | Tractor & Equipment Co. (B) |
| | Stockton | Equipment Sales & Service Co. (A, E) |
| | " | H-8-M Tractor Company (B) |
| Utah | " | Ranzhof Farm Machinery Co. (B) |
| | Whittier | Turner and Chaplin, Inc. (B) |
| Colorado | Denver | Gunderson-Taylor Machinery Co. (C, E) |
| | " | Liberty Truck & Parts Co. (A, B) |
| | Pueblo | Mutual Machinery Co. (C) |
| Idaho | Boise | Engineering Sales Service, Inc. (B, E) |
| | " | The Sawtooth Company (C) |
| | " | Starline Equipment Company (A) |
| | Cottonwood | Idaho Electric Sales Co. (B) |
| | Lewiston | " |
| Montana | Billings | Montana Powder & Eq. Co. (A) |
| | " | Western Construction Eq. Co. (B) |
| | Butte | Montana Powder & Equipment Co. (A) |
| | Great Falls | Central Machinery Company (C) |
| | " | Montana Powder & Equipment Co. (A) |
| | Helena | " |
| | Kalispell | Croskey Motors (C) |
| | " | Modern Equipment Co. (C) |
| | Miles City | Tractor & Equipment Co. (C) |
| | Missoula | Montana Powder & Equipment Co. (A) |
| | " | Missoula Mercantile Company (C) |
| | " | Western Construction Equipment Co. (B) |
| Nevada | Reno | Farmers Machy. & Supply Co. (E) |
| | " | Jenkins & Albright (A) |
| | " | Sierra Machinery Co., Inc. (C) |
| | " | Contractors Equipment & Supply Co. (C) |
| New Mexico | Albuquerque | N.C. Ribble Company (B) |
| | Las Vegas | Hilton's, Inc. (A) |
| | El Paso | Loggers & Contractors Machy. Co. (A, E) |
| Oregon | Portland | " |
| | " | Columbia Equipment Co. (A) |
| | " | Contractors Equipment Corp. (C) |

Cont. next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE BAKER-LULL CORPORATION (CONTINUED)

| | | |
|------------|----------------|-------------------------------------|
| Utah | N. Salt Lake | Taylor Machinery Company (C) |
| | Salt Lake City | Arnold Machinery Company (B,E) |
| | " | Available Allen Agencies (D) |
| | " | Foulger Equipment Company (A) |
| Washington | Olympia | Pacific Hoist & Derrick Co. (B,E) |
| | Puget Sound | " " " " (B,E) |
| | Centralia | " " " " (B,E) |
| | Seattle | " " " " (B,E) |
| | " | Modern Machinery Co., Inc. (C) |
| | " | Star Machinery Co. (A) |
| | Spokane | Inland Diesel & Machinery Co. (B) |
| | " | Modern Machinery Co., Inc. (C) |
| | " | Northwest Sheppard Diesels (D) |
| | " | Star Machinery Company (A) |
| | Walla Walla | Melcher-Ray Machinery Co. (B) |
| | Wenatchee | Central Tractor & Equipment Co. (B) |
| Wyoming | Casper | Wortham Machinery Co. (A) |
| | Cheyenne | " " " (A) |
| | Rock Springs | " " " (A) |
| | Sheridan | " " " (A) |

NOTE: A Indicates Case equipment
 B " Oliver equipment
 C " Minneapolis-Moline equipment
 D " Sheppard Diesel equipment
 E " 4-Wheel Drive Shovel loader account

THE BAKER MANUFACTURING CO.
 10th and Stanford Avenue
 Springfield, Illinois

PRODUCTS: Bulldozers; Gradebuilders; Power Control Units;
 Road Rippers; Disc Attachments; Sheepfoot Rollers
 and Snow Plows (Both Truck and Allis-Chalmers
 Motor Graders).

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Eureka | Alkins Tractor Co. |
| | Los Angeles | Shaw Sales & Serv. Co. |
| | Oakland | Buran Equipment Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Idaho Falls | Southern Idaho Equipment Co. |
| Montana | Billings | Seltz Machinery Co. |
| | Missoula | Mountain Tractor Co. |
| | Sidney | Richland Machinery Co. |
| Nevada | Elko | A - D Machinery Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| | Roswell | Smith Machinery Co., Inc. |
| Oregon | The Dalles | Dielschneider Equipment Ore., Ltd. |
| | Eugene | Papel Brothers |
| | Medford | Haupter Tractor Co. |
| | Portland | Wood Tractor Co. |
| Utah | Salt Lake City | Cate Equipment Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | American Machine Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

BALDWIN-LIMA-HAMILTON CORP.
 South Main Street
 Lima, Ohio

PRODUCTS: Shovels; Cranes; Draglines; Pull-Shovels; Truck
 Cranes.

FACTORY BRANCH

Washington Seattle 1932 1st Ave. So. W.D. Halev, Mgr.

FACTORY REPRESENTATIVES

California Burlingame 1452 Drake Ave. Ralph Rogers, Asst. DM
 Glendale 1445 Cordova Ave. T.A. Griffin, Dist. Mgr.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Eureka | McGaraghan Supply Co. |
| | Los Angeles | Smith-Booth-Usher Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| Colorado | Denver | Farris-Moritz Equipment Co. |
| Idaho | Boise | Feenough Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Klamath Falls | Cascade Industrial Supply, Inc. |
| | Portland | Feenough Machinery Co. |
| Utah | Salt Lake City | Heiner Equipment & Supply Co. |
| Washington | Seattle | Modern Machinery Co. |
| | " | Western Tractor & Equipment Co. |
| | Spokane | Modern Machinery Co. |

**WESTERN CONSTRUCTION EDITORIAL MATERIAL
 SERVES ALL THE WEST — IT IS BALANCED GEOGRAPHICALLY
 AND JOB-WISE OVER THE ELEVEN WESTERN STATES AND ALASKA**

BALDWIN-LIMA-HAMILTON CORP.
 South Main Street
 Lima, Ohio

PRODUCTS: Austin-Western Washing, Screening and Crushing
 Equipment.

FACTORY REPRESENTATIVES

California San Francisco 33 Clementina St. J.E. Huber
 Colorado Denver 6387 W. Ohio St. Paul Hawklinberry

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | San Francisco | Western Machinery Co. |
| | " | Edward P. Racon Company |
| | Los Angeles | Smith-Booth-Usher Co. |
| Colorado | Denver | Liberty Trucks & Parts Co. |
| Idaho | Boise | Columbia Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Heiner Equipment Co. |
| Washington | Seattle | Columbia Equipment Co. |

BARBER-GREENE COMPANY
 400 North Highland Ave.
 Aurora, Illinois

PRODUCTS: Asphalt Plants; Belt Conveyors; Ditchers; Bituminous
 Mixers; Finishers; Bucket Loaders; Coal Handling
 Equipment.

WESTERN FACTORY OFFICE

California San Mateo Area Sales Mgr. E.L. Benson
 Area Serv. Mgr. Harry Jackson

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Brown-Bewis Industrial Equipment Co. |
| | San Francisco | Coast Equipment Co. |
| | " | Mines Engr. & Equip't. Co. (Conveyors only) |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | Columbia Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " " " |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| | " | Mine & Smelter Supply Co. |
| Washington | Seattle | Columbia Equipment Co. |
| | Spokane | " " " |
| Wyoming | Cheyenne | Kerem Tractor & Equipment Co. |
| | Casper | " " " |

BARCO MANUFACTURING CO.
 500-530 No. Haugh St.
 Barrington, Illinois

PRODUCTS: Bammers — for earth compaction; Portable Gasoline
 Hammers; Portable Gasoline Rock Drills; Portable
 Gasoline Tylamers.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | D.W. Jaquays |
| California | Los Angeles | Fornaciari Co. |
| | San Francisco | C.H. Bull Co. |
| | Denver | Ray Corson Machinery Co. |
| Colorado | Billings | Great Northern Tool & Supply Co. |
| New Mexico | El Paso, Texas | Francis Wagner Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Jack Sahlberg Equipment Co. |
| | Spokane | Blackwell-Coleman Equipment Co. |

CONSTRUCTION MACHINERY DIVISION
 BARNARD & LEAS MFG. CO., INC.
 1200-34 Twelfth St., S.W.
 Cedar Rapids, Iowa

PRODUCTS: Elevating Grader Attachment to mount on Galion Motor
 Grader.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| | Tucson | F. Ronsadt Hardware Co. |
| California | Bakersfield | Brown-Bewis Industrial Equipment Co. |
| | Los Angeles | " " " |
| | San Francisco | Western Tractor Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " |
| | Great Falls | " " " |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | P.L. Crooks & Co., Inc. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Modern Machinery Co. |
| | Spokane | " " " |

**C. I. T. finances installment sales
 of equipment for many Distributors**

BARNES MANUFACTURING CO.
651 N. Main Street
Mansfield, Ohio

PRODUCTS: Self-Priming Pumps; HI-Pressure Pumps; Fire Pumps;
Power Take-Off Pumps for Trucks and Tractors;
Jetting Pumps; Petroleum Pumps.

FACTORY BRANCH

California Oakland 680 Heegenberger Rd. William Stillwell

SALES REPRESENTATIVES

California Los Angeles 1726 Mallman Ave. Harold Feldstein
Oakland 680 Heegenberger Rd. Walter L. Davis
Washington Seattle 809A Term. Sales Bldg. Wm. A. Matzke, Jr.

DISTRIBUTORS

| | | |
|------------|---------------|-------------------------------------|
| Alaska | Anchorage | Craig Taylor Equipment & Supply Co. |
| Arizona | Phoenix | Submersible Pump Co. |
| California | Berkeley | Central Equipment Co. |
| | Fresno | Fresno Pump & Supply Co. |
| | Los Angeles | Larson Equipment Co. |
| | Redding | Laury Equipment Co. |
| | San Francisco | The Rix Company, Inc. |
| Idaho | Boise | Western Equipment Co. |
| Oregon | Klamath Falls | Motv & Van Dyke |
| | Portland | Mitchell, Lewis & Stauer |
| Washington | Seattle | Cascade Machinery Co. |
| | " | Daag Equipment Co. |
| | " | Siar Machinery Co. |
| | Spokane | " |
| Yakima | | Rankin Equipment Co. |

ARTHUR C. BAUMAN CO.
7011-21 Grays Ave.
Philadelphia, Penna.

PRODUCTS: Complete line of portable heating units, oil fired
and L-P gas fired.

BAUGHMAN MANUFACTURING COMPANY
Shipman Road
Jesseville, Illinois

PRODUCTS: Portable Conveyors; Stationary Conveyors; Belt and
Bucket Elevators; Car Unloaders; Undertrack Car
Unloaders; Stationary Screw Conveyors and Portable
Screw Conveyors.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Marana | Marana Equipment, Inc. |
| | Phoenix | Western Machinery Co. |
| | Yuma | Beeler Thomas Implement, Inc. |
| California | Berkeley | Berkeley Industrial Supply Co. |
| | La Habra | I. J. Cool Company |
| | Oakland | Benner-Newman, Inc. |
| | " | Monarch Truck Equipment Co. |
| | " | Mill Engineering & Supply Co. |
| | Tulare | Jim Ingle Company |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Helena | Calder Engineering Works |
| | Kalispell | Treasure State Equipment Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Amity | Burlingham Meeker Lime Co. |
| Utah | Salt Lake City | Lund Machinery Company |
| Washington | Seattle | Air-Mac, Inc. of Washington |
| | Spokane | American Machine Company |

BAY CITY SHOVELS, INC.
Bay City
Michigan

PRODUCTS: Power Shovels and Cranes, Crawler and Pneumatic
Tire Mounted.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | Richmond | Bay Equipment Co. |
| Idaho | Boise | Feenoughy Machinery Co. |
| Montana | Helena | Feenoughy Machinery Co. |
| Oregon | Portland | Foulger Equipment Co. |
| Utah | Salt Lake City | Feenoughy Machinery Co. |
| Washington | Seattle | " |
| | Spokane | " |

The **WESTERN CONSTRUCTION Annual Highways Issue**, published
each year in June, is a yearbook of progress in Western highway
design, construction methods and costs. Advertisers in this spe-
cial issue gain extra reader interest.

BEEBE BROS.
2724 Sixth Avenue South
Seattle 4, Washington

PRODUCTS: Hand Hoists and Winches.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | McConkey-Docker & Co. |
| | Tucson | Arizona Hardware Co. |
| Colorado | Denver | Hendrie & Bollhoff Co. |
| Idaho | Boise | Gate City Steel, Inc. |
| | Wallace | Coeur d'Alene Hardware & Foundry Co. |
| Montana | Billings | Great Northern Tool & Supply Co. |
| | Butte | Montana Hardware Company |
| | Great Falls | Carl Weissman & Sons, Inc. |
| | Helena | Montana Powder & Equipment Co. |
| | Missoula | Missoula Mercantile Co. |
| | Miles City | Tractor & Equipment Co. |
| New Mexico | Albuquerque | M & F Equipment Co. |
| Utah | Ogden | Geo. A. Love Company |
| | Salt Lake City | Arnold Machinery Co. |
| | " | Industrial Supply Co., Inc. |
| | " | Mine & Smelter Supply Co. |
| | " | Salt Lake Hardware Co. |
| Wyoming | Sheridan | Sheridan Iron Works, Inc. |

BE-GE MANUFACTURING COMPANY
P.O. Box B-1
Gilroy, California

PRODUCTS: Hydraulic Scrapers; Drag Scrapers; Trenchers; Log
Turners; Power Control Units.

SALES REPRESENTATIVES

| | | | |
|---------|----------|-------------------|----------------|
| Arizona | Phoenix | P.O. Box 2414 | Richard Pasman |
| Oregon | Portland | 4908 NE 57th Ave. | Harold Bennett |

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Arizona Machinery Co. |
| | " | The O.S. Stapley Co. |
| | Yuma | Braden Tractor Co. |
| California | Bakersfield | Cousins Tractor Co. |
| | " | San Joaquin Tractor Co. |
| | El Centro | Faure Tractor & Equipment Co. |
| | Fresno | Furdy Holmquist Co. |
| | Hanford | Allied Equipment Co. |
| | " | Cousins Tractor Co. |
| | " | J.H. Degnan, Inc. |
| | " | Jim Ingle Co. |
| | Lancaster | Shepherd Tractor & Equipment Co. |
| | Merced | Hallon Tractor Co. |
| | Modesto | Valley Tractor & Equipment Co. |
| | Onard | Stanislaus Implement & Hardware |
| | Sacramento | L.G. Maulhardt Equipment Co. |
| | Salinas | Weaver Tractor Co. |
| | San Diego | Pringle Tractor Co. |
| | " | San Diego Tractor & Equipment Co. |
| | " | Southern Equipment & Supply Co. |
| | San Jose | Valley Equipment Co. |
| | Santa Maria | Joseph G. Moore Co. |
| | Stockton | Molt Brothers |
| | " | Moore Equipment Co. |
| | " | Jim Ingle Co. |
| | Tulare | Treanor Equipment Co. |
| Colorado | Denver | McCoy Company |
| | Billings | Wortham Machinery Co. |
| | " | Seltz Machinery Co. |
| | Butte | Central Machinery Co. |
| | Sidney | Tractor & Equipment Co. |
| | " | Norland Machinery Co. |
| Nevada | Reno | Sanford Tractor & Equipment Co. |
| | Las Vegas | James Cashman |
| | " | Hilton's, Inc. |
| New Mexico | Albuquerque | J.D. Connors & Co. |
| Oregon | Portland | R.L. Harrison Co. |
| | " | Rus Chamberlin Co. |
| Utah | Ogden | Ogden Implement Co. |
| | Salt Lake City | The Lang Co. |
| | " | Wheeler-Kershaw Co. |
| Washington | Seattle | Calkins Manufacturing Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

BETHLEHEM PACIFIC COAST STEEL CORP.
2011 & Illinois Streets
San Francisco, California

PRODUCTS: Bethlehem Wire Rope

WESTERN SALES OFFICES

| | | |
|---------------|------------------------|-----------------------------|
| Los Angeles | 6000 S. Boyle Ave. | L.J. Soracco, Mgr. of Sales |
| San Francisco | 2011 & Illinois St. | F.J. Anderson, " " " |
| Portland | 508 Pacific Bldg. | L.S. Kuhn, " " " |
| Seattle | 3631 E. Marginal Way | H.E. Gray, " " " |
| Honolulu | State Sav & Loan Bldg. | J.F. Moody, Sales Agent |

DISTRIBUTORS

| | | |
|------------|------------|---------------------------------------|
| Alaska | Anchorage | Northern Supply Co. |
| Arizona | Douglas | Phelps Dodge Mercantile Co. |
| | Phoenix | Smith Pipe & Steel Co. |
| California | Cloverdale | Potts Bros. Transmission & Equip. Co. |
| | Fresno | Federal Pipe & Supply Co. |

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

BLAW-KNOX EQUIPMENT DIVISION
of Blaw Knox Company
Blawknex, Pennsylvania

PRODUCTS: Heavy Steel Forms for Tunnels & Dams; Road and Airport Paving Forms; Bins & Batches; Concrete Batch Plants; Central Mixing Plants; Bulk Cement Storage Plants; Concrete Paving Spreaders & Finishers; Pan Type Vibrators & Tamping Attachments for Finishers; Spreaders; Precision Subgraders; Curb & Gutter & Sidewalk Forms; Truckmixers & Acclimators; Road Wideners & Base Pavers; Clamshell Buckets for Construction & Industrial Services; Grapples for Pulpwood, Rock Handling; Railroad Tie Laying Machines; Services; Manually Operated & Air Operated Concrete Buryers.

California San Francisco 681 Market St. PH: YU 2-1569

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | The O.S. Stapley Co. |
| California | Oakland | C.H. Grant Co. |
| | Los Angeles | Shaw Sales & Service |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Missoula | Treasure State Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Star Machinery Co. |
| | " | Northern Commercial Co. (Alaska) |
| | Spokane | Star Machinery Co. |
| Wyoming | (Cheyenne) | Colorado Builders Supply Co. |

PRODUCTS: Batchers; Bins; Car Pullers; Conveyors; Crushing Plants; Elevators; Gravel Plants; Mixing Plants; Rock & Sand Dryers; Screens; Screening Plants; Storage Bins; Weighing Batchers.

PRODUCTS: Tire Handling Equipment; Tire Spreaders; Air Service
Jacks; Truck Tire Changers; Truck Tire Removers;
Curing Rims; Tire Rack Brackets; Three-Way Valves.

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Phoenix Auto Supply Co. |
| | Tucson | Motor Supply Co. |
| California | Los Angeles | Balloon Tire Mould Co. |
| | Oakland | Union Rubber Co. |
| | Sacramento | Sacramento Wheel Service |
| | San Diego | San Diego Motor Parts |
| | San Francisco | Gurlev-Lord Company |
| Colorado | Denver | Hendrie & Bolthoff |
| | " | The McGee Company |
| Montana | Billings | Neil Vandepas & Sons |
| | Butte | Valley Motor Supply Co. |
| Nevada | Reno | Nevada Auto Supply |
| New Mexico | Las Cruces | Cruces Motor Parts |
| Oregon | Portland | Russ Chamberlin Co. |
| Utah | Salt Lake City | Tire Shop Supply Co. |
| Washington | Seattle | Automotive Parts & Equipment Co. |
| | " | Railou & Wright |

PRODUCTS: 4-Cycle, Air Cooled Engines.

California Van Nuys 5442 Allott Ave. Woodrow J. Markley

Washington Bellevue 10255 NE 21st Pl. Carl E. Peterson

| | | |
|------------|----------------|--------------------------|
| Arizona | Phoenix | Motor Supply Co. |
| | Tucson | " " |
| California | Los Angeles | Electric Equipment Co. |
| | San Francisco | Frank Edwards Co. |
| Colorado | Denver | Spitzer Electrical Co. |
| Montana | Billings | Original Equipment, Inc. |
| New Mexico | Albuquerque | Spitzer Electrical Co. |
| Oregon | Portland | Tracey & Co., Inc. |
| Utah | Salt Lake City | Frank Edwards Co. |
| Washington | Seattle | Sunset Electric Co. |
| | Spokane | " " |

PRODUCTS: Portable Electric Drills; Saws; Screwdrivers; Nut Runners; Tappers; Shears; Bench Grinders; Die Grinders; Portable Grinders; Sanders; Buffers; Hammers; Glue Pots; Industrial Vacuum Cleaners; Valve Refacers; Valve Seat Grinders; Wire Wheel Brushes; Attachments and Supplies.

| | | | |
|------------|---------------|------------------|--------------|
| California | Los Angeles | 2432 S. Broadway | L.C. Kaefner |
| | San Francisco | 4313 Third St. | Paul Pounds |
| Colorado | Denver | 1010 Bannock St. | J.D. Kindred |
| Oregon | Portland | 1640 NW Johnson | P.W. Lund |
| Washington | Seattle | 434 8th Ave. N. | P.W. Lund |

| | | | |
|------------|-------------|------------------|--------------|
| California | Los Angeles | 2432 S. Broadway | A.S. Boehm |
| Colorado | Denver | 1010 Bannock St. | W.L. Poynter |

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

BRISCOE MANUFACTURERS OF CALIFORNIA, INC.
(Formerly E.V. Briscoe & Son)
Rt. 2, Box 118
Kerman, California

PRODUCTS: Canal Ditchers and Slopers.

DISTRIBUTORS

(No Distributors; all distribution handled by factory office through dealers).

BRODERICK & BASCOM ROPE CO.
4203 Union Blvd.
St. Louis 15, Missouri

PRODUCTS: Wire Rope and Slings.

FACTORY BRANCHES

| | | | |
|------------|---------------|---------|-----------------|
| California | Los Angeles | Manager | R.H. Boag |
| | San Francisco | " | J.E. Carmichael |
| Oregon | Portland | " | M.E. Tucker |
| Washington | Seattle | " | T. Verhoef |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Arizona Machinery Co. |
| California | Colusa | I.G. Zumalt Company |
| | Fresno | Contractors Equipment & Supply Co. |
| | Sacramento | Weaver Tractor Co. |
| | San Diego | Winn Supply Co. |
| | San Francisco | Calif. Industrial Supply Co. |
| | Stockton | Molt Bros. |
| Colorado | Denver | Pine & Smelter Supply Co. |
| Idaho | Boise | Starline Equipment Co. |
| | Idaho Falls | Perkinson Tractor Co. |
| | Lewiston | Nez Perce Tractor & Equipment Co. |
| Montana | Billings | Seltz Machinery Co. |
| | Helena | Caird Engineering Works |
| | Miles City | Tractor & Equipment Co. |
| | Missoula | Westmont Tractor & Equipment Co. |
| | Sidney | Richland Machinery Co. |
| Oregon | Baker | Basche-Sage Hardware Co. |
| | Bend | Moly & Van Dyke, Inc. |
| | Coquille | Enlund Equipment Co. |
| | The Dalles | Dieselschneider Equipment Co. |
| | Eugene | Eugene Equipment Co. |
| | John Day | Moly & Van Dyke, Inc. |
| | Lebanon | " " " " |
| | Medford | Hubbard Bros., Inc. |
| | Pendleton | Empire Machinery Co. |
| | Portland | Wood Tractor Co. |
| | Roseburg | Industrial Supply Co. |
| Utah | Salt Lake City | Wheeler-Kershaw Co. |
| Washington | Aberdeen | I.G. Isaacson Co. |
| | Bellingham | Industrial Supply Co. |
| | Everett | Greenshields Industrial Supply Co. |
| | Spokane | Byrne-Ferris Machinery Co. |
| | Tacoma | Murphy-Campbell Co. |
| | Walla Walla | Breden Tractor & Equipment Co. |
| | Yakima | Webb Tractor & Equipment Co. |

BROOKS EQUIPMENT & MANUFACTURING CO.
2018 Davenport Road, S.E.
Knoxville, Tennessee

PRODUCTS: Brooks Load Luger and Detachable Containers; Day Rock Crusher (jaw type); Day Pulverizer (swing hammermill); Brooks Refuse Disposal System; Brooks Reel Handling Units.

DISTRIBUTORS

| | | |
|------------|---------------|--------------------------|
| California | Los Angeles | Glenn A. Harshberger Co. |
| | San Francisco | Elder & Company |
| Colorado | Denver | H.M. Rattle Company |
| Texas | El Paso | E.D. Flournoy |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | General Machinery Co. |

WM. BROS. BOILER & MANUFACTURING CO.
1057 - Tenth Avenue S.E.
Minneapolis 14, Minnesota

PRODUCTS: Medium Tampers and Giant Tampers; 7, 10, 35, 50 and 100 Ton Pneumatic Tired Rollers; Circulators; Distributors; Snow Plovers; Spray Bars; Cement Block Loaders; All Steel Rollers; Sidewalk, Parking Lot, Highway, Airport and Railroad Rotary Snow Plovers; Steam Generators.

SALES REPRESENTATIVE

| | | | |
|----------|--------|-----------------|---------------|
| Colorado | Denver | 1410 Spruce St. | O.G. Holliman |
|----------|--------|-----------------|---------------|

DISTRIBUTORS

| | | |
|------------|---------------|-------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Concord | Jack Findland Equipment Co. |
| | Los Angeles | Crook Co. |
| | San Francisco | Coast Equipment Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Western Equipment Co. |

Continued next column

WM. BROS. BOILER & MANUFACTURING CO. (CONTINUED)

| | | |
|------------|----------------|-----------------------------|
| Montana | Billings | Seltz Machinery Co. |
| | Great Falls | Central Machinery Co. |
| | Kellispell | Mountain Tractor Co. |
| | Sidney | Tractor & Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| | " | Heiner Equipment Supply Co. |
| Washington | Seattle | Nelson Equipment Co. |

BROWNING MANUFACTURING CO.
111 Humble Avenue
San Antonio 6, Texas

PRODUCTS: BMCO-Pneumatic Tired Rollers 9 to 50 tons; Sheep Foot Rollers; BMCO Traveling Rock Buster.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Nell B. McGinnis Equipment Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Oakland | C.H. Grant Co. |
| Colorado | Denver | Constructors Equipment Co. |
| Idaho | (Salt Lake) | Western Machinery Co. |
| Montana | " | " " " |
| Nevada | " | " " " |
| New Mexico | Albuquerque | N.C. Ribble Company |
| | Roswell | Smith Machinery Co. |
| Oregon | Portland | Constructors Equipment Corp. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | (Portland) | Constructors Equipment Corp. |
| | Seattle | Beliance Equipment Co. & Supply |
| Wyoming | (Denver) | Constructors Equipment Co. |

BRUNNER & LAY, INC.
2425 E. 37th Street
Los Angeles 58, Calif.

PRODUCTS: Carbide Rock Bits; Intra-Set Drill Steel; Drill Steel; Molt Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

DISTRIBUTORS

| | | |
|------------|---------------|-------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| | " | Superior Equipment Co. |
| | " | D.W. Jaquays |
| | " | Western Machinery Co. |
| California | Fresno | Edward R. Bacon Co. |
| | " | Contractors Equipment & Supply Co. |
| | Los Angeles | Larson Equipment Co. |
| | " | Mine & Mill Machinery Co. |
| | " | Pneumatic Machinery Co. |
| | " | Smith-Booth-Usher Co. |
| | Sacramento | Edward R. Bacon Co. |
| | " | Western Tractor Co. |
| | San Diego | Gould Hardware & Machinery Co. |
| | " | Hudson Equipment Corp. |
| | San Francisco | Edward R. Bacon Co. |
| | " | George M. Hippolt Co. |
| | " | Western Tractor Co. |
| | " | West Coast Engine & Equipment Co. |
| Nevada | Las Vegas | Inland Service & Supply Co. |
| | " | Sierra Machinery Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| | " | Constructors Equipment & Supply Co. |

BRUNNER & LAY CORPORATION
Westland Division
600 N. Tillamook Street
Portland 12, Oregon

PRODUCTS: Carbide Rock Bits; Intra-Set Drill Steel; Drill Steel; Molt Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

DISTRIBUTORS

| | | |
|---------|-------------|--------------------------------------|
| Canada | Calgary | Ferguson Alberta Supply |
| | Edmonton | Pardee Equipment Co. |
| | Vancouver | C. R. D. Company |
| Hawaii | Honolulu | American Factors |
| Idaho | Boise | Engineering Sales & Service |
| | " | Idaho Bit & Steel Co. |
| | " | Intermountain Equipment Co. |
| | " | Sawtooth Company |
| | " | Western Bearing Co. |
| | " | Western Equipment Co. |
| | Idaho Falls | Arnold Machinery Co. |
| | " | Southern Idaho Equipment |
| | Pocatello | Intermountain Equipment Co. |
| | " | Western Bearings Co. |
| Montana | Billings | Seltz Machinery Co. |
| | " | Western Construction & Equipment Co. |
| | Butte | Bulte Machinery Company |
| | " | Hall Perry Machinery Co. |
| | Great Falls | " |
| | Helena | Caird Engineering Works |
| | " | Montana Powder & Equipment |
| | Missoula | Miller Machinery Co. |
| Oregon | Coquille | Enlund Equipment Co. |
| | Coos Bay | Coos Bay Supply Co. |

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

BRUNNER & LAY CORPORATION (CONTINUED)

| | |
|----------------|-------------------------------------|
| Eugene | Howard-Cooper Corp. |
| " | Loquers & Contractors Machinery Co. |
| " | Woodbury Company |
| Klamath Falls | Cascade Industrial Supply Co. |
| " | Klamath Powder & Equipment Co. |
| La Grande | Industrial Machinery & Supply |
| Medford | Cal-Ore Machinery Co. |
| North Bend | Oregon Pacific Company |
| Pendleton | Empire Machinery Co. |
| Portland | Andersen Machinery Co. |
| " | Andrews & Andrews Machinery Co. |
| " | Balzer Machinery Co. |
| " | Clyde Equipment Co. |
| " | Contractors Equipment Co. |
| " | P.L.Crooks & Company |
| " | Howard-Cooper Corp. |
| " | Lacey Supply Company |
| " | Loquers & Contractors Machinery Co. |
| " | Nelson Equipment Co. |
| " | George M. Philpott Company |
| " | Rogers Machinery Company |
| " | Senter Tools Service |
| " | Woodbury Company |
| Reedsport | Reedsport Lading Supply |
| Roseburg | Howard-Cooper Corp. |
| Sweet Home | Gooch Lading Supply |
| Salt Lake City | Rocky Mountain Machinery Co. |
| Utah | Morse Hardware Co. |
| Washington | Industrial Supply Co. |
| " | Everett Hardware |
| Kelso | Charles E. Hansen |
| Seattle | Box Lake Equipment Co. |
| " | Clyde Equipment Co. |
| " | A.H. Cox & Company |
| Seattle | Gardner-Denver Co. |
| " | Pacific Northwest Industries |
| " | Universal Equipment Co. |
| Spokane | Andrews Equipment Service |
| " | Blifco, Inc. |
| " | Blackwell Coleman |
| " | Construction Equipment Co. |
| " | Rental Equipment Company |
| " | Western Machinery Co. |
| " | Modern Machinery Co. |
| Wyoming | Worham Machinery Co. |
| Rock Springs | |

BUCKRUS-ERIE COMPANY
South Milwaukee
Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes; Hydrohoes.

WESTERN BRANCH OFFICES

| | | | |
|------------|-------------------|---------|--------------|
| California | So. San Francisco | Manager | J.H. Sackett |
| Washington | Seattle | " | R.P. Brooks |

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Bakersfield | Crook Company |
| " | Berkeley | West Coast Engine & Equipment Co. |
| " | Los Angeles | Crook Company |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| " | Pocatello | " |
| Montana | Billings | Great Northern Tool & Supply Co. |
| " | Kalispell | Westmont Tractor & Equipment Co. |
| " | Missoula | " |
| Nevada | Reno | Nevada Equipment Service, Inc. |
| New Mexico | Albuquerque | R.L. Harrison Company |
| " | Carlsbad | The Border Machinery Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | The Lang Company |
| Washington | Seattle | Clyde Equipment Co. |
| " | " | Northern Commercial Co. |
| " | Spokane | Intermountain Equipment Co. |

THE BUDA COMPANY
154th & Commercial Ave.
Harvey, Illinois

PRODUCTS: Earth Drills.

DISTRIBUTORS

| | | |
|------------|---------------|------------------------------------|
| California | Los Angeles | Fornaciari Company |
| " | San Francisco | Coast Equipment Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | The Sawtooth Company |
| Montana | Billings | Western Construction Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |

PRODUCTS: Material Handling Equipment; Industrial Tractors;
Fork Lift Trucks; Burden Carrying Platform Trucks;
Lifting Jacks.

DISTRIBUTORS

| | | |
|------------|-------------|-------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Albany | M.E. Bolsford Company |
| " | Los Angeles | Pacific Lift Corporation |

continued next column

THE BUDA COMPANY (CONTINUED)

| | | |
|------------|-------------|--------------------------|
| New Mexico | Albuquerque | Industrial Supply Co. |
| Washington | Seattle | Materials Handling, Inc. |

PRODUCTS: Diesel and Gasoline Engines and Power Units; Diesel
and Gasoline Engine Generator Sets; Lifting Jacks.

FACTORY REPRESENTATIVE

| | | | |
|------|----------------|----------------|---------------|
| Utah | Salt Lake City | District Repr. | Porter Martin |
|------|----------------|----------------|---------------|

FACTORY BRANCH MANAGER

| | | | |
|------------|---------------|--------------|-------------|
| California | San Francisco | 470 Bayshore | C.H. Riding |
|------------|---------------|--------------|-------------|

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Bakersfield | Anderson-BeVier Co., Inc. |
| " | Fresno | Utility Trailer Sales Co. |
| " | Long Beach | Anderson-BeVier Co., Inc. |
| " | Los Angeles | " |
| " | San Francisco | Buda Engine & Equipment Co., Inc. |
| Colorado | Denver | B.K. Sweeney Company |
| " | Grand Junction | " |
| New Mexico | Albuquerque | Industrial Supply Co. |
| Oregon | Portland | Hamilton Engine Sales, Inc. |
| " | " | T.B. Cook Engine Co. |
| Utah | Salt Lake City | Motor Mercantile Co. |
| Washington | Seattle | Northwest Motor Parts & Mfg. Co. |
| Wyoming | Casper | Power Service Company |

BUFFALO-SPRINGFIELD ROLLER CO.
1210 Kanton Street
Springfield, Ohio

PRODUCTS: Self-Propelled Road Rollers and Heavy Compaction Units.

WESTERN DISTRICT REPRESENTATIVE

| | | | |
|------|----------------|--------------|--------------------|
| Utah | Salt Lake City | 526 13th St. | Ben E. Linnefelter |
|------|----------------|--------------|--------------------|

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Crook Co. |
| " | Oakland | Spears-Wells Machinery Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Helena | Steffeck Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | Wheeler-Kershaw Co. |
| Washington | Seattle | Clyde Equipment Co. |
| " | Spokane | Intermountain Equipment Co. |
| Wyoming | Cheyenne | Worham Machinery Co. |

THE BURCH CORPORATION
324 So. Thomen Street
Crestline, Ohio

PRODUCTS: Snow Plows; Road Building and Maintenance Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | O.S. Stapley Company |
| California | Los Angeles | Harron-Rickard & McCone Co. |
| " | San Francisco | Coast Equipment Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | The Sawtooth Company |
| Montana | Butte | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Nevada | Reno | General Equipment Co. |
| Oregon | Portland | Contractors Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Jack Sahlberg Equipment Co. |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

WESTERN CONSTRUCTION
COVERS THE ENTIRE WEST

And it is the one publication that does

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

**C. I. T. finances installment sales
of equipment for many Distributors**

BUTLER BIN COMPANY
945 Blackstone Avenue
Waukesha, Wisconsin

PRODUCTS: Steel Storage Bins; Car Scoops; Vertical Bucket Type Elevators; Bin Gates; Sand and Gravel Plants; Weighing Hoppers; Concrete Mixing Plants; Rock and Gravel Storage Equipment; Storage Bins; Electric Vibrators; Weighing Batchers; Cement Aerator; Bin Indicator; Portable Concrete Hoppers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Flagstaff | State Tractor & Equipment Co. |
| | Phoenix | " " " |
| California | Los Angeles | Brown-Beyls Industrial Equipment Co. |
| | Los Angeles | " " " |
| | Millbrae | H.L. Davis |
| Colorado | Denver | Constructors Equipment Co., Inc. |
| Idaho | Idaho Falls | Arnold Machinery Co. |
| | (Spokane) | Construction Equipment Co. |
| Montana | Slidley | Tractor & Equipment Co. |
| Nevada | (Salt Lake) | Arnold Machinery Co. |
| | Los Angeles | Brown-Beyls Industrial Equipment Co. |
| New Mexico | Albuquerque | J.D. Cousins Company |
| | (El Paso) | Contractors Equipment & Supply Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | A.H. Cox & Company |
| | Tacoma | " " " " |
| | Spokane | Construction Equipment Co. |
| | (Portland) | Clyde Equipment Co. |
| Wyoming | Cheyenne | Worham Machinery Co. |
| | (Salt Lake) | Arnold Machinery Co. |

BYERS MANUFACTURING COMPANY
Sycamore and Spruce Streets
Ravenna, Ohio

PRODUCTS: Shovels; Cranes; Draglines and Trenches; Crawler type and rubber mounted.

DISTRIBUTORS

| | | |
|------------|---------------|----------------------|
| California | San Francisco | FWD Pacific Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Montana | Missoula | R.S. Brinkerhoff |

C & D MANUFACTURING CO.
Perkins
California

PRODUCTS: Movall Wagon - Rock and Dirt Wagon to be used with DW 20 and DW21 Caterpillar Rubber-Tired Tractor.

DISTRIBUTORS

Distributed through Caterpillar dealers.

RALPH B. CARTER CO.
192 Atlantic Street
Hackensack, New Jersey

PRODUCTS: PUMPS: Self-Priming Centrifugal, Diaphragm, Pressure, Jetting and Irrigation - Gasoline, Diesel and Electric Driven.

REPRESENTATIVES

| | | | |
|----------|---|-----------------------------|-----------------|
| Oregon | Portland | Mi-Van Co. | 324 SE Main St. |
| | (N. Cal., Idaho, Oregon and Washington) | | |
| Colorado | Denver | Harry J. Glass & Associates | P.O. Box 1085 |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Arizona-Cedar Replids Co. |
| California | Bakersfield | Kern County Equipment Co. |
| | Los Angeles | Girdley Equipment Co. |
| Colorado | Denver | National Light & Pump Co. |
| Montana | Billings | Seltz Machinery Co., Inc. |
| New Mexico | Albuquerque | T-P Pump & Pipe Co. |
| Oregon | Portland | Mi-Van Company |
| Utah | Salt Lake City | H.H. Nielsen Co. |
| Washington | Seattle | Western Tractor & Equipment Co. |

CARVER PUMP COMPANY
1050 Hershey Avenue
Muscatine, Iowa

PRODUCTS: Pumps; Self-Priming Centrifugals; Irrigation; Industrial; Diaphragm.

FACTORY BRANCH & WAREHOUSE

California Long Beach 1530 W. 12th St. PH: 61-1258

WESTERN REGION SALES MANAGER

California Rolling Hills 26942 Buckskin Lane Wm.A. McMahon

DISTRIBUTORS

| | | |
|---------|---------|------------------------------|
| Arizona | Phoenix | Salt River Pump & Supply Co. |
| | " | O.S. Stapley Company |

Continued next column

CARVER PUMP COMPANY (CONTINUED)

| | | |
|------------|----------------|---------------------------------------|
| California | Bakersfield | San Joaquin Valley Tractor Co. |
| | Escondido | Means Irrigation Co., Inc. |
| | Fresno | Pacific Mill & Mine Supply Co. |
| | Los Angeles | Frederick Pump & Engineering Co. |
| | " | Mine & Mill Machinery Co. |
| | " | Shields Harper & Co. |
| | Oakland | Shields Harper & Co. |
| | San Francisco | Hubbard Machine & Equipment Co. |
| | " | Simonds Machinery Co. |
| | San Jose | Western Pump Company |
| Colorado | Denver | I.G. Downs Co., Inc. |
| | Pueblo | Bernstein Brothers |
| Montana | Billings | Blacktop Construction Co. |
| | Helena | Steffert Equipment Co. |
| Missoula | | Folsom Company, Inc. |
| | Roundup | Mussellshell Valley Equipment Co. |
| New Mexico | Albuquerque | T-P Pump & Pipe Co. |
| Oregon | Pendleton | Pendleton Grain Grovers |
| | Portland | Andrews & Andrews Equipment Co. |
| | " | Shields Harper & Co. |
| Utah | Salt Lake City | Cline Equipment Co. |
| | " | Rasmussen Equipment & Supply Co. |
| | " | Utilities Engineers |
| Washington | Seattle | Andrews Machinery of Washington, Inc. |
| | " | Shields Harper & Co. |
| | Spokane | Blackwell-Coleman |
| | Yakima | Crip King Company |
| Wyoming | Casper | Casper Concrete Co. |
| | " | Gehring Equipment Co. |

J.I. CASE COMPANY
700 State Street
Racine, Wisconsin

PRODUCTS: Wheel Type Tractors; Highway Movers; Gasoline and Diesel Engines; Powerloaders.

FACTORY MANAGERS

| | | | |
|------------|----------|---------------------|-------------|
| California | Oakland | 1933 Peralta St. | W.F. Carey |
| Oregon | Portland | 2746 N.E. 24th Ave. | R.E. Arnold |

OTHER FACTORY PERSONNEL

| | | | |
|------------|----------|---------------|----------------|
| California | Tarzana | District Mgr. | Harry R. Scott |
| Oregon | Portland | | R.E. Arnold |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | Chula Vista | Hassard Equipment Co. |
| | Fresno | Reynolds Equipment Co. |
| | Sacramento | Equipment Sales & Service |
| | San Francisco | Contractors Machinery Co. |
| | Los Angeles | Electric Tool & Supply Co. |
| | San Bernardino | " |
| | Stockton | Equipment Sales & Service |
| Colorado | Denver | Liberty Truck & Parts Co. |
| Idaho | Boise | Starline Equipment Co. |
| Nevada | Reno | Jenkins & Albright |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | Montana Powder & Equipment Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " |
| Wyoming | Cheyenne | Worham Machinery Co. |
| | Casper | " " " |
| | Rock Springs | " " " |
| | Sheridan | " " " |

CATAPHOTE CORPORATION
958 Wall Street
Toledo 10, Ohio

PRODUCTS: Cataline Reflective Striping Compounds - Both Premix and Drop-On; Catatex Reflective Coating Kits; Highway Signs; Reflector Buttons; Delineators and Sign Accessories.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|-----------------|
| California | Los Angeles | Manager | Hundley Company |
| | Oakland | | George L. Avery |

DISTRIBUTORS:

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Equipment Sales Company |
| | Tucson | Ronsstadt Hardware Co. |
| California | San Francisco | Edward R. Bacon Company |
| Idaho | Boise | Engineering Sales & Service |
| | Pocahontas | Intermountain Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| | " | C.E. Mitchem Company |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Spokane | Modern Machinery Co. |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

**CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURS**

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CATERPILLAR TRACTOR CO.
Peoria, Illinois
800 Davis Street
San Leandro, California

PRODUCTS: Diesel Track-Type and Industrial Wheel-Type Tractors;
Diesel Engines, Diesel Marine Engines, Diesel Electric
Sets; Motor Graders; Bulldozers; Rippers; Scrapers;
Wagons; Cable Controls; Hydraulic Controls; Shovels;
Pipe Layers.

WESTERN FACTORY BRANCH

| | | | |
|------------|-------------|-------------------|---------------|
| California | San Leandro | Sales Mgr. | B.L. Hooglund |
| | | Asst. Sales Mgr. | F.S. Foster |
| | | Sales Prom. Dept. | F. McNamara |
| | | | T.W. Fahey |

WESTERN PARTS DEPOTS

| | | |
|------------|-------------|-------------------------|
| California | Los Angeles | Caterpillar Tractor Co. |
| | San Leandro | " " |
| Washington | Spokane | " " |

DISTRIBUTORS

| | | |
|------------|-----------------|--------------------------------------|
| Arizona | Casa Grande | Arizona Machinery Co. |
| | Coolidge | " " |
| | Flagstaff | " " |
| | Mesa | " " |
| | Phoenix** | " " |
| | Tucson | " " |
| | Williston | Braden Machinery Co. |
| | Yuma** | " " |
| California | Arcata | Brizard-Matthews Machinery Co. |
| | Bakersfield | Davies Machinery Co. |
| | Blythe** | Honnen Machinery Co. |
| | Brawley | Faure Tractor & Equipment Co. |
| | Brentwood | Peterson Tractor & Equipment Co. |
| | Chico** | Sierra Tractor & Equipment Co. |
| | Chouchilla | Haltom Tractor Co. |
| | Cochella | Johnson Tractor Co. |
| | Colusa** | I.G. Zumwalt Co. |
| | Corcoran | Davies Machinery Co. |
| | Covina | Shepherd Tractor & Equipment Co. |
| | Crescent City | Brizard-Matthews Machinery Co. |
| | Delano | Treanor Equipment Co. |
| | Dixon | Weaver Tractor Co. |
| | El Centro** | Faure Tractor & Equipment Co. |
| | Escondido | San Diego Tractor & Equipment Co. |
| | Eureka** | Brizard-Matthews Machinery Co. |
| | Firebaugh | Budd & Quinn, Inc. |
| | Fresno** | " " |
| | Gilroy | Ditz Bros. |
| | Goleta | Joseph G. Moore Co. |
| | Gridley | Sierra Tractor & Equipment Co. |
| | Half Moon Bay | Peterson Tractor & Equipment Co. |
| | Hanford** | Davies Machinery Co. |
| | Hollister | Ditz Bros. |
| | King City | Pringle Tractor Co. |
| | Lancaster | Shepherd Tractor & Equipment Co. |
| | Lodi | Holt Bros. |
| | Lompoc | Joseph G. Moore Co. |
| | Los Angeles** | Shepherd Tractor & Equipment Co. |
| | Los Banos | Haltom Tractor Co. |
| | Madera | Budd & Quinn, Inc. |
| | Marysville** | Marysville Tractor & Equipment Co. |
| | Merced** | Haltom Tractor Co. |
| | Modesto** | Valley Tractor & Equipment Co. |
| | Napa** | Berglund Tractor & Equipment Co. |
| | Ontario | Johnson Tractor Co. |
| | Oxnard** | Wallace Machinery Co. |
| | Paso Robles | Joseph G. Moore Co. |
| | Porterville | Treanor Equipment Co. |
| | Red Bluff | Sierra Tractor & Equipment Co. |
| | Redding | " " |
| | Reedley | Budd & Quinn, Inc. |
| | Rio Vista | Weaver Tractor Co. |
| | Riverside** | Johnson Tractor Co. |
| | Robbins | Marysville Tractor & Equipment Co. |
| | Roseville | " " |
| | Sacramento** | Weaver Tractor Co. |
| | Salinas** | Pringle Tractor Co. |
| | San Diego** | San Diego Tractor & Equipment Co. |
| | San Diego | Shepherd Marine (Marine Engines) |
| | San Francisco | Peterson Tractor & Equipment Co. |
| | San Francisco** | Thomas A. Short Co. (Marine Engines) |
| | San Jose** | Ditz Bros. |
| | San Leandro** | Peterson Tractor & Equipment Co. |
| | San Pedro | Shepherd Marine (Marine Engines) |
| | Santa Ana | Shepherd Tractor & Equipment Co. |
| | Santa Maria** | Joseph G. Moore Co. |
| | Santa Rosa | Berglund Tractor & Equipment Co. |
| | Saugus | Shepherd Tractor & Equipment Co. |
| | Stockton** | Holt Bros. |
| | Tracy | Treanor Equipment Co. |
| | Tulare | Crater Lake Machinery Co. |
| | Tulelake | Valley Tractor & Equipment Co. |
| | Turlock | Treanor Equipment Co. |
| | Visalia** | Davies Machinery Co. |
| | Wasco | Pringle Tractor Co. |
| | Watsonville | Berglund Tractor & Equipment Co. |
| | Willits | I.G. Zumwalt Co. |
| | Willows | Weaver Tractor Co. |
| | Woodland | McGow Company |
| Colorado | Alamosa | " " |
| | Denver** | " " |
| | Grand Junction | " " |
| | Sterling | " " |

Continued next column

CATERPILLAR TRACTOR CO. (CONTINUED)

| | | |
|------------|------------------|--------------------------------------|
| Idaho | American Falls | Parkinson Tractor Co. |
| | Boise** | Bunting Tractor Co., Inc. |
| | Burley | " " |
| | Idaho Falls** | Parkinson Tractor Co. |
| | Leavitt** | Nex Perce Tractor & Equipment Co. |
| | Preston | Peterson Tractor Service |
| | Rexburg | Parkinson Tractor Co. |
| | Twin Falls | Bunting Tractor Co., Inc. |
| Montana | Billings** | Nash-Davis Machinery Co. |
| | Glasgow | Tractor & Equipment Co. |
| | Great Falls** | Central Machinery Co. |
| | Hayre | " " |
| | Kalispell | Westmont Tractor & Equipment Co. |
| | Lewiston | Central Machinery Co. |
| | Miles City | Tractor & Equipment Co. |
| | Missoula** | Westmont Tractor & Equipment Co. |
| | Sidney** | Tractor & Equipment Co. |
| Nevada | Elko | Sanford Tractor & Equipment Co. |
| | Las Vegas | James Cashman Co. |
| | Reno** | Sanford Tractor & Equipment Co. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| Oregon | Arlington | Empire Machinery Co. |
| | Astoria | Interstate Tractor & Equipment Co. |
| | Athens | Empire Machinery Co. |
| | Coquille | Interstate Tractor & Equipment Co. |
| | Enterprise | Inland Machinery Co. |
| | Eugene | Interstate Tractor & Equipment Co. |
| | Heppner | Empire Machinery Co. |
| | John Day | Inland Machinery Co. |
| | Klamath Falls** | Crater Lake Machinery Co. |
| | La Grande** | Inland Machinery Co. |
| | Medford | Crater Lake Machinery Co. |
| | Ontario | Bunting Tractor Co., Inc. |
| | Pendleton** | Empire Machinery Co. |
| | Portland** | Interstate Tractor & Equipment Co. |
| | Redmond | Crater Lake Machinery Co. |
| | Roseburg | Interstate Tractor & Equipment Co. |
| | Salmon | " " |
| | The Dalles | " " |
| Utah | Logan** | Peterson Tractor Service |
| | Salt Lake City** | Wheeler-Kershaw Co. |
| | Tremonton | Peterson Tractor Service |
| Washington | Connell | Webb Tractor & Equipment Co. |
| | Dayton | Braden Tractor & Equipment Co., Inc. |
| | Ellensburg | Webb Tractor & Equipment Co. |
| | Ephrata | Columbia Tractor Company |
| | Long View | Interstate Tractor & Equipment Co. |
| | Mount Vernon | Collins Machinery Co. |
| | Okanogan | Columbia Tractor Co. |
| | Port Angeles | Collins Machinery Co. |
| | Seattle** | N.C. Marine (Marine Engines) |
| | Spokane** | Byrne-Ferris Machinery Co. |
| | St. John | " " |
| | Tacoma** | Murphy-Campbell Co. |
| | Topekanish | Webb Tractor & Equipment Co. |
| | Walla Walla** | Braden Tractor & Equipment Co., Inc. |
| | Wenatchee** | Columbia Tractor Co. |
| | Yakima** | Webb Tractor & Equipment Co. |
| Wyoming | Casper | Wortham Machinery Co. |
| | Cheyenne** | " " |
| | Greybull | Nash-Davis Machinery Co. |
| | Rock Springs | Wortham Machinery Co. |
| | Sheridan | " " |

** Distributors' headquarters stores. All others are branch stores.

CHAIN BELT COMPANY
Milwaukee 1
Wisconsin

PRODUCTS: "Rex" De-Watering Pumps; P. Liding Mixers; Mortar and
Plaster Mixers; Pavers; Compcrete (Concrete placed by
Pipeline); Rex Moto-Mixers.

WESTERN DISTRICT MANAGER

| | | | |
|------------|-------------|----------------|------------------|
| California | Los Angeles | 7601 Telegraph | R.G. Kuhnmuensch |
|------------|-------------|----------------|------------------|

MANAGER-CALIFORNIA OPERATIONS

| | | | |
|------------|-------------|----------------|-------------|
| California | Los Angeles | 7601 Telegraph | S.Y. Warner |
|------------|-------------|----------------|-------------|

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Brown-Beris Industrial Equipment Co. |
| | San Francisco | Coast Equipment Co. |
| | Denver | Rav Corson Co. |
| Colorado | Boise | Intermountain Equipment Co. |
| | Pocatello | " " |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " " |
| Nevada | Reno | Sanford Tractor & Equipment Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | " " |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Spokane | Construction Equipment Co. |
| Wyoming | Casper | Willson Equipment & Supply Co. |
| | Cheyenne | " " |

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

C. M. & E. MANUFACTURING CO.
3849 North Palmer Street
Milwaukee 12, Wisconsin

PRODUCTS: Portable Saw Rigs; Band Saws; Disphream Pumps;
Self-Priming Centrifugal Pumps; Jetting Pumps;
Piston Force Pumps; Triplex Force Pumps; Single
& Double Drum Hoists; Plaster and Mortar Mixers;
Bar Cutters; Bar Benders; Tandem Rollers; Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | San Francisco | Contractors Machinery Co. |
| | Los Angeles | Brown-Revis Industrial Equipment Co. |
| Colorado | Denver | Mine & Smelter Supply Co. |
| Idaho | Boise | Columbia Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Golding Equipment Co. |
| Washington | Seattle | Columbia Equipment Co. |

CHICAGO BRIDGE & IRON COMPANY
332 South Michigan Avenue
Chicago 4, Illinois

PRODUCTS: Digesters, Pulp; Holders, Gas; Penstocks; Refinery
Towers, Oil; Savelall, Marx; Smokestacks; Standpipes;
Steel Forms; Steel Plate Work; Tanks, Acid; Tanks,
Aluminum; Tanks, Elevated; Tanks, Flat Bottom; Tanks,
Hemispherical; Tanks, Spherical; Tanks, Spheroidal;
Pressure Vessels.

WESTERN PLANT

| | | | |
|------|----------------|-----------------|-------------------|
| Utah | Salt Lake City | 555 W. 17th St. | E.S. Fraser, Mgr. |
|------|----------------|-----------------|-------------------|

WESTERN SALES MANAGERS

| | | | |
|------------|---------------|-------------------|-----------------|
| California | Los Angeles | Gen. Petro. Bldg. | Dean E. Stephan |
| | San Francisco | 200 Bush St. | L.A. Elsener |
| Washington | Seattle | 1355 Henry Bldg. | R.A. Jackson |

CHICAGO PNEUMATIC TOOL COMPANY
6 East 44th Street
New York 17, New York

PRODUCTS: Pneumatic and Electric Tools; Compressors; Rock
Drills; Diesel Engines.

WESTERN FACTORY BRANCHES

| | | | |
|------------|----------------|---------------|-------------|
| California | Los Angeles | Manager | H.P. Hansen |
| | San Francisco | " | C.W. Scott |
| | " | Special Repr. | E.W. Karp |
| Colorado | Denver | Manager | E.R. Goss |
| Utah | Salt Lake City | Asst. Manager | O.L. Briggs |
| Washington | Seattle | Manager | R.S. McBeth |

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Phoenix | Western Machinery Co. |
| California | Fresno | Contractors Equipment & Supply Co. |
| | Los Angeles | Essick Machinery Co. |
| | San Diego | Shaw Sales & Service Co. |
| | San Francisco | Western Traction Co. |
| Colorado | Denver | Stearns Roger Manufacturing Co. |
| | " | Gunderson-Taylor Machinery Co. |
| | " | Stephens Machine & Tool Co. |
| Idaho | Cortez | Arnold Machinery Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " |
| Nevada | Las Vegas | Inland Service & Supply Co. |
| | Reno | Pioneer Equipment Co. of Nevada, Inc. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Balzer Machinery Co. |
| | " | Woodbury & Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| | " | Industrial Supply Co. |
| Washington | Bellingham | " |
| | Chehalis | Western Tractor & Equipment Co. |
| | Seattle | " |
| | " | Philpott Equipment Co. |
| | Spokane | Andrews Equipment Service of Washington |
| | Tacoma | Western Tractor & Equipment Co. |

CHIKSAN COMPANY
330 N. Pomona Ave.
Anaheim, California

PRODUCTS: Joints; Swivel Couplings; Swivel Monitors.

FACTORY BRANCHES

| | | | |
|------------|---------|------------------------|-----------------|
| California | Brea | Western Reg. Sls. Mgr. | Robert T. Jones |
| | Oakland | District Mgr. | H. Stock |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Cone & Wallace Co. |
| California | Oakland | Chiksan Company |
| Colorado | Denver | Well Equipment Manufacturing Corp. |
| Montana | Billings | " |
| New Mexico | Hobbs | " |
| Oregon | Portland | E.C. Griffin Co. |
| Utah | Salt Lake City | The Lang Company |
| Washington | Seattle | E.C. Griffin Co. |

CHRYSLER CORPORATION
Marine & Industrial Engine Div.
2000 Van Horn Road
Trenton, Michigan

PRODUCTS: Gasoline Engines and Power Units.

REGIONAL MANAGER

| | | | |
|------------|-------------|----------------------|-------------|
| California | Los Angeles | 5800 S. Eastern Ave. | F.L. Harris |
|------------|-------------|----------------------|-------------|

DISTRIBUTORS

| | | |
|------------|----------------|---|
| California | Bakersfield | Wilson Engine & Equipment Co. |
| | Berkeley | West Coast Motors |
| | Sacramento | Dalton Motors, Inc. |
| | San Diego | Hudson Equipment Co. |
| | Stockton | Equipment Sales & Service |
| | Wilmington | Industrial & Marine Engines, Inc. |
| Colorado | Denver | Houry-Berg Steel & Iron Works, Inc. |
| | Grand Junction | Ed Eisenhauer Motor Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| | Clovis | Ingram Brothers Pump Co. |
| | Roswell | Smith Machinery Co. |
| Oregon | Portland | National Supply Engine Corp. |
| Utah | Salt Lake City | Hafer's, Inc. |
| Washington | Seattle | Evans Engine & Equipment Co. |
| | Spokane | Andrews Equipment Service of Washington |

CLARK EQUIPMENT COMPANY
Construction Machinery Division
574 Second Street
Benton Harbor, Michigan

PRODUCTS: "MICHIGAN" Tractor Shovels; "MICHIGAN" Excavator-
Cranes.

DISTRICT MANAGER

| | | | |
|------------|------------|------------------|--------------|
| California | Long Beach | 5929 Rosebay St. | M.O. Nyström |
|------------|------------|------------------|--------------|

DISTRICT REPRESENTATIVES

| | | | |
|------------|-----------------|--------------|-------------|
| California | Manhattan Beach | 645 17th St. | D.W. Pedley |
| Washington | Seattle | 500 Wall St. | R.W. Lewis |
| | | Apt. 913 | |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | Oakland | Buran Equipment Co. |
| Colorado | Denver | Western Machinery Co. |
| Nevada | Reno | Sierra Machinery Co., Inc. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Idaho | Boise | The Sawtooth Company |
| Oregon | Portland | Western Equipment Co. |
| Utah | Salt Lake City | Faulger Equipment Co. |
| Washington | Seattle | Western Tractor & Equipment Co. |

CLEAVER BROOKS COMPANY
326 East Keefe Avenue
Milwaukee 12, Wisconsin

PRODUCTS: Steam Boilers; Mobile, Portable, Stationary; Tank
Car Heaters; Bituminous Boosters; "Peak-Temp" Oil
Boosters; "Deuce" Combination Tank Car Heater and
Pumping Booster.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| California | San Francisco | Western Traction Co. |
| | Los Angeles | Standard Steel Corporation |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " |
| | Great Falls | " |
| | Missoula | " |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| Oregon | Eugene | Howard-Cooper Corp. |
| | Portland | " |
| | Albany | " |
| | Central Point | " |
| | Coquille | " |
| | Newport | " |
| | " | " |
| | Roseburg | " |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Pasco | Intermountain Equipment Co. |
| | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

**13,000 WESTERN CONSTRUCTION READERS HAVE
THE AUTHORITY TO BUY OR TO INFLUENCE THE
PURCHASE OF CONSTRUCTION EQUIPMENT AND
SUPPLIES.**

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CLEVELAND TRENCH CO.
20100 St.Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Backfillers; Backfill Tamper; Ditcher; Tamper; Trailer; Trencher.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Shriner Machinery Co. |
| California | San Francisco | Edward R.Bacon Co. |
| | Los Angeles | Smith-Booth-Usher Co. |
| Colorado | Denver | H.W.Moore Equipment Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| New Mexico | Albuquerque | J.D.Cocqins Co. |
| Oregon | Portland | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Wheeler-Kershaw Co. |
| Washington | Spokane | Western Machinery Co. |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

CLIPPER MANUFACTURING CO.
2825 Warwick
Kansas City 8, Missouri

PRODUCTS: Masonry Saws; Concrete Saws; Diamond Blades; Abrasive Blades.

FACTORY BRANCH

| | | | |
|------------|---------------|----------------|-----------------|
| California | San Francisco | 885 Bryant St. | Robert M.Stubbs |
|------------|---------------|----------------|-----------------|

SALES OFFICES

| | | | |
|------------|-------------|----------------|-------------|
| California | Los Angeles | 440 Seaton St. | PH: MU 4589 |
| Washington | Seattle | Times Sq.Bldg. | PH: EL 3070 |

CLYDE IRON WORKS, INC.
Duluth 1
Minnesota

PRODUCTS: Complete line of Construction and Material Handling Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Richmond | Bay Equipment Co. |
| | Los Angeles | Harron Rickard & McCone Co. |
| Colorado | Denver | Mine & Smelter Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | Mine & Smelter Supply Co. |
| Washington | Seattle | Clyde Equipment Co. |
| | Spokane | Intermountain Equipment Co. |

COFFING HOIST COMPANY
804 Walter Street
Danville, Illinois

PRODUCTS: Electric Hoists; Ratchet Lever Hoists; Spur Gear Hoists; Differential Hoists; Low Head Room Hoists; Army Type - Extended Hand Wheel and Clevis Connected Spur Gear Hoists; "Hoist-Alls"; "Mighty Midget Pullers"; Utility Maintenance Tools; Load Binders.

DISTRICT SALES MANAGERS

| | | | |
|------------|---------|---------------------|--------------|
| California | Belmont | 1300 Sunnyslope Av. | R.A.Ratcliff |
| Colorado | Denver | 842 S.York St. | F.R.Elsner |

DISTRIBUTORS

Distributors in all major cities.

COLBY STEEL & MANUFACTURING, INC.
3155 Elliott Avenue
Seattle 1, Washington

PRODUCTS: Custom Engineered Bridge, Gantry, Hammerhead, Luffing Boom, and Double Cantilever Cranes; Hydraulic and Electric Level-Luffing Shipboard Type Cargo Handling Cranes; Grab Bucket Unloaders; Marine Elevators; Automobile and Passenger Ramps.

- IF YOU WANT TO—
- Sell, rent, lease or buy used equipment
 - Fill or get a good job
 - Advertise an auction
 - Offer or obtain some special service

THEN it is to your advantage to see
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

COLORADO FUEL & IRON CORP.
Continental Oil Building
Denver, Colorado

Wickwire Spencer Steel Division
Palmer
Massachusetts

PRODUCTS: Clinton Welded Wire Fabric; Cal-Tie Wire; Blades for Graders, Dozers, Scrapers, Carrivals, Snow Plows; Wickwire Rope; Wire Rope Slings; Industrial Screens.

WICKWIRE ROPE DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Alaska | Anchorage | Northern Supply Co. |
| | Ketchikan | Allied Industrial Equipment Co. |
| Arizona | Douglas | Phelps-Dodge Mercantile Co. |
| | Phoenix | Arizona Hardware Co. |
| | " | Lee Redman Equipment Co. |
| | " | Western Machinery Co. |
| California | Arcata | Reliable Hardware Co. |
| | Bakersfield | Davies Machinery Co. |
| | Boonville | John Ross & Son Co. |
| | Downey | Cutting Edge Supply Co. |
| | Fresno | Kyle & Company |
| | Glendale | Air Associates, Inc. |
| | Hayward | Hill Supply Co. |
| | Jackson | Spinetti Brothers |
| | Long Beach | Bagby's Wire Rope & Spooling Service |
| | " | Cordage Supply Co. |
| | Los Angeles | A.M.Castle & Co. |
| | " | The Howard Supply Co. |
| | " | National Parts Distributors |
| | " | J.G.Tucker & Son |
| | Redding | Cascade Industrial Supply Co. |
| | Sacramento | Capitol Machine & Welding Works, Inc. |
| | " | Kyle & Company |
| | San Francisco | Beil Riquing Supply |
| | " | A.M.Castle & Co. |
| | " | Dunham, Carriolan & Hayden Co. |
| | " | A.J.Giesener Co. |
| | San Jose | Pacific Hardware & Steel Co. |
| | San Leandro | Peterson Tractor & Equipment Co. |
| | Santa Rosa | Reliable Hardware & Steel Co. |
| | Sonoma | Tuolumne Foundry & Machine Works |
| | Stockton | Kyle & Company |
| | Ukiah | Reliable Mill Supply Co. |
| Colorado | Cripple Creek | Colorado Trading & Transfer Co. |
| | Denver | M.J.Croze Mfg. Co., Inc. |
| | " | Houston Oil Field Material Co. |
| | " | T.C.Koogle & Son |
| | " | Lukey Products Corp. |
| | " | McDonald Equipment Co. |
| | Grand Junction | Union Supply Company |
| | " | McDonald Equipment Co. |
| | " | Salt Lake Hardware Co. |
| | Loveland | Western States Supply Co. |
| | Pueblo | S.W.Pressey & Son |
| | " | Mutual Machinery Co. |
| | Ranqueley | Sargent Engineering Co. |
| Idaho | Boise | Salt Lake Hardware Co. |
| | " | Southern Idaho Equipment Co. of Boise |
| | Idaho Falls | Southern Idaho Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| | Missoula | " |
| | Twin Falls | Krengels, Inc. |
| | " | Southern Idaho Equipment Co. |
| Montana | Glendive | Southwest Supply Co. |
| | " | Western Oil Tool & Supply Co. |
| | Great Falls | Central Machinery Co. |
| | Havre | " |
| | Lewiston | " |
| | Sidney | Mayhew Machine & Supply |
| | Elko | A-D Machinery Co. |
| Nevada | Las Vegas | Las Vegas Building Materials |
| New Mexico | Albuquerque | Brown Pipe & Supply |
| | " | Harry Cornelius Co. |
| | Artesia | Allied Supply Co. |
| | " | Iverson Supply Co. |
| | Farmington | Beacon Supply Co. |
| | " | Iverson Supply Co. |
| | Hobbs | Fuller Equipment |
| | Silver City | E.Cosgrove, Inc. |
| Oregon | Eugene | Pine-Flr Logging Supply |
| | Grants Pass | Cascade Industrial Supply, Inc. |
| | Klamath Falls | " |
| | Portland | " |
| | " | A.W.Davis Supply Co. |
| | " | Feenaughty Machinery Co. |
| | " | Westfall Equipment Co. |
| | Reedsport | Reedsport Logging & Supply Co. |
| Texas | El Paso | Pontford Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| | " | Salt Lake Hardware Co. |
| | " | Zion's Cooperative Mercantile Inst. |
| | " | Iverson Supply Co. |
| Washington | Aberdeen | Western Machinery Exchange Co. |
| | Chehalis | W.J.Graham Implement Co. |
| | Colville | Cole Equipment Co. |
| | Everett | Wold Hardware Co. |
| | Forks | Ulin Maintenance & Supply Co. |
| | Olympia | Olympia Supply Co. |
| | Seattle | Bow Lake Equipment Co. |
| | " | A.M.Castle & Co. |
| | " | Seattle Marine & Fishing Supply Co. |
| | " | Marine & Industrial Supply Co. |
| | " | Modern Machinery Co. |
| | " | Schwabacher Hardware Co. |
| | " | Seaboard Supply Co. |

Continued next page

C. I. T. finances installment sales
of equipment for many Distributors

COLORADO FUEL & IRON CORP. (CONTINUED)

| | | |
|---------|---------|--------------------------------|
| | Sequim | Sequim Lumber & Supply Co. |
| | Spokane | Broadway Splicing Shop |
| | " | Modern Machinery Co. |
| | Tacoma | Paramount Supply Co. |
| Wyoming | Casper | Franklin Supply Co. |
| " | " | Houston Oil Field Material Co. |
| " | " | Mayhew Machine & Supply |
| " | " | Southwest Supply Co. |
| " | " | Western Oil Tool & Supply Co. |
| World | World | Western Oil Tool & Supply Co. |
| | World | World Machine Co. |

COLUMBIA-GENEVA STEEL
DIVISION UNITED STATES STEEL CORP.
1403 Russ Building
San Francisco 6, California

PRODUCTS: Steel & Steel Products; Tiger Brand Wire Rope; Aerial Tramways, Cableways and Light Suspension Bridges.

DISTRICT OFFICES

| | | | |
|------------|----------------|---------------|-----------------|
| California | Los Angeles | District V.P. | F.S. Howard |
| | San Francisco | " | R.H. Madden |
| Colorado | Denver | Manager Sales | J.B. Black, Jr. |
| Oregon | Portland | " | M.B. Harrison |
| Utah | Salt Lake City | District V.P. | L.S. Brock |
| Washington | Seattle | " | M.H. Freedman |

DISTRIBUTORS

| | | |
|---------------|---------------|--------------------------------------|
| Arizona | Douglas | Phelps Dodge Mercantile Co. |
| | Flagstaff | Babbitt Brothers Trading Co. |
| | Phoenix | Arizona Hardware Co. |
| | " | Equipment Sales Co. |
| Tucson | " | Albert Steinfeld & Co. |
| California | Avenal | Oil Well Supply Co. |
| | Bakersfield | " |
| | " | Tay-Holbrook, Inc. |
| | Berkeley | " |
| | Brawley | Imperial Hardware Co. |
| | Calxico | " |
| | El Centro | " |
| | Eureka | Fred E. Barnett Co. |
| | " | Tay-Holbrook, Inc. |
| Fresno | " | Imperial Hardware Co. |
| Indio | " | Oil Well Supply Co. |
| Long Beach | " | Brown-Beris Industrial Equipment Co. |
| Los Angeles | " | B & T Industrial Supply Co. |
| " | " | Drilling & Mining Equipment Co. |
| " | " | Harper & Reynolds Corp. |
| " | " | Hickey Pipe & Supply Co. |
| " | " | Oil Well Supply Co. |
| " | " | R. J. M. Co. |
| " | " | Triangle Steel & Supply Co. |
| " | " | Union Hardware & Metal Co. |
| N. Sacramento | " | Fred E. Barnett Co. |
| Oakland | " | Tay-Holbrook, Inc. |
| Redding | " | Gerlinger Steel & Supply Co. |
| Reno | " | Tay-Holbrook, Inc. |
| Sacramento | " | The Thompson-Diggs Co. |
| | " | Tay-Holbrook, Inc. |
| Salinas | " | " |
| San Carlos | " | " |
| San Diego | " | C. J. Hendry Co. |
| San Francisco | " | Fred E. Barnett, Inc. |
| " | " | C. J. Hendry Co. |
| " | " | Honolulu Iron Works Co. |
| " | " | Tay-Holbrook, Inc. |
| San Jose | " | " |
| San Pedro | " | C. J. Hendry Co. |
| Santa Rosa | " | Tay-Holbrook Co. |
| Stockton | " | Austin Brothers |
| | " | Tay-Holbrook, Inc. |
| Taft | " | Oil Well Supply Co. |
| Ventura | " | " |
| Idaho | Boise | Idaho Hardware & Plumbing Co. |
| | " | Olson Manufacturing Co. |
| | " | Southern Idaho Equipment Co. |
| | Idaho Falls | Southern Idaho Equipment Co. |
| | Lewiston | Erb Hardware Co. |
| | Pocatello | Paul Roberts |
| | Twin Falls | Southern Idaho Equipment Co. |
| Nevada | Las Vegas | Las Vegas Machine & Engineering Co. |
| | Reno | J. R. Bradley Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Astoria | Fisher Bros. Co. |
| | " | Interstate Tractor & Equipment Co. |
| | Central Point | Howard-Cooper Corp. |
| | Coos Bay | A. B. Daly & Co. |
| | Coquille | Howard-Cooper Corp. |
| | Eugene | American Steel & Supply Co. |
| | " | Howard-Cooper Corp. |
| | " | Interstate Tractor & Equipment Co. |
| | Grants Pass | Redwoods Supply Co. |
| | Klamath Falls | Fred E. Barnett Co. |
| | McMinnville | Interstate Tractor & Equipment Co. |
| | Philomath | Lacey Supply Co. |
| | Portland | American Steel Warehouse Co. |
| | " | Fred E. Barnett Co. |
| | " | Contractors Equipment Co. |
| | " | J. E. Haseltine & Co. |
| | " | Howard-Cooper Corp. |
| | " | Interstate Tractor & Equipment Co. |
| | " | Lovely Bros. Splicing Service |
| | " | Star Drilling Machine Co. |
| | " | Woodbury Co. |

Continued next column

COLUMBIA-GENEVA STEEL (CONTINUED)
DIVISION UNITED STATES STEEL CORP.

| | | |
|------------|----------------|------------------------------------|
| | Prineville | Prineville Machine & Supply Co. |
| | Roseburg | Douglas Supply Co. |
| | " | Howard-Cooper Corp. |
| | " | Interstate Tractor & Equipment Co. |
| | Salem | " |
| | " | Salem Steel & Supply Co. |
| | " | Interstate Tractor & Equipment Co. |
| Utah | The Dalles | Carbon Transfer & Supply Co. |
| | Helper | Scholzen Products Co. |
| | Hurricane | The Salt Lake Hardware Co. |
| | Salt Lake City | " |
| Washington | Bellingham | Morse Hardware Co. |
| | Chehalis | F.G. Foster Co. |
| | Everett | Agnew Hardware Co. |
| | Hoquiam | F.G. Foster Co. |
| | Longview | Interstate Tractor & Equipment Co. |
| | Raymond | F.G. Foster Co. |
| | Seattle | Glenn Carrington |
| | " | Fisheries Supply Co. |
| | " | J.E. Haseltine & Co. |
| | " | Lines, Inc. |
| | " | Chas. H. Rasmussen & Co. |
| | " | Joseph T. Ryerson & Son |
| Spokane | " | Marshall-Wells Co. |
| | " | Joseph T. Ryerson & Son |
| Tacoma | " | Hunt & Motter Co. |
| Yakima | " | Yakima Hardware Co. |

THE COMMERCIAL SHEARING & STAMPING CO.
Box 719
Youngstown 1, Ohio

PRODUCTS: Tunnel Lining Products; Oil Hydraulic Controls; Heavy Steel Stampings and Forgings.

PLANTS

| | | | |
|------|----------------|---------------|---------------|
| Ohio | Youngstown | 1775 Logan | H.S. Thompson |
| Utah | Salt Lake City | P.O. Box 2036 | John R. Hagen |

THE CONCRETE SURFACING MACHINERY CO.
4665 Spring Grove Avenue
Cincinnati 32, Ohio

PRODUCTS: "Berg" Concrete Surfacers; Hiway Surfacers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Los Angeles | Garlinghouse Brothers |
| " | " | M.N. Thackerberry |
| " | " | Brown-Beris Industrial Equipment Co. |
| " | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| " | " | The Mine & Smelter Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Kallispell | Westmont Tractor & Equipment Co. |
| " | Butte | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| " | " | Contractors Equipment & Supply Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | The C.H. Jones Equipment Co. |
| " | " | National Equipment Co. |
| Washington | Seattle | Andrews Machinery Co. of Wash., Inc. |
| " | Spokane | Construction Equipment Co. |

CONCRETE TRANSPORT MIXER CO.
4985 Fyler Street
St. Louis 9, Missouri

PRODUCTS: "Hi-Lo" Truck Mixer; "Rocket" Truck Mixer; Miscellaneous Construction Machinery.

ADVERTISING
TO THE CONSTRUCTION INDUSTRY
OF THE WEST AND ALASKA
IS A REGIONAL JOB

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

AND WESTERN CONSTRUCTION
IS THE ONE PUBLICATION
THAT COVERS ALL THE WEST'S
BIG AND GROWING CONSTRUCTION MARKET

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CONSOLIDATED MACHINERY & SUPPLY CO.
2033 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Comet Radial Power Saws; Davits & Wells Woodworking Machines; Comasco Gas Powered Contractors Saws; Comet Adjustable Cut-off Stop Gauges.

REPRESENTATIVES

| | | | |
|------------|---------------|------------------|-----------------|
| California | San Francisco | 1546 Portola Dr. | Chas.G.Dunwoody |
| Colorado | Denver | 2820 Grape St. | Roy J.Holsclaw |

DISTRIBUTORS

| | | |
|----------------|-----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Electric Tool Co. |
| " | " | Arizona Welding Equipment Co. |
| " | " | Equipment Sales Co. |
| " | " | State Tractor & Equipment Co. |
| Tucson | " | Arizona Welding Equipment Co. |
| " | " | Industrial Tool & Supply Co. |
| California | Burbank | Consolidated Machinery & Supply Co. |
| " | Fresno | Sierra Machinery Co. |
| " | Eureka | M.H.Buhne Company |
| " | Huntington Park | James Hardware Co. |
| " | Los Angeles | Consolidated Machinery & Supply Co. |
| " | " | Gridley Equipment Co. |
| " | " | Kemp Hardware & Lumber Co. |
| " | " | Olympic Machine Co. |
| " | " | Mine & Mill Machine Co. |
| " | " | Mitchell Machinery Co. |
| " | " | M.N.Thackaberry Co. |
| " | " | Woodworkers Supply Co. |
| National City | " | C.J.Allen |
| N.Hollywood | " | Electric Tool Service Co. |
| N.Sacramento | " | Swarf Saw & Tool Co. |
| Oakland | " | Dependable Machinery Co. |
| Pasadena | " | M.N.Thackaberry Co. |
| Redwood City | " | Rockhold Tool Sales & Service |
| Riverside | " | Ken's Tool & Supply |
| Sacramento | " | Sacramento Machinery Co. |
| Salinas | " | Tynan Lumber Co., Inc. |
| San Bernardino | " | Western Tool Company |
| San Diego | " | Acme Saw & Supply Co. |
| " | " | Gould Hardware & Machinery Co. |
| " | " | Production Tools, Inc. |
| San Francisco | " | Coast Equipment Co. |
| " | " | Dependable Machinery Co. |
| " | " | E.C.Dodge Machinery Co. |
| San Gabriel | " | San Gabriel Valley Electric Tool Co. |
| San Jose | " | Power Tool Mart |
| Santa Ana | " | Blvsstone Equipment Co. |
| Santa Barbara | " | Milpas Rental Service |
| Stockton | " | Dunlap Hardware & Appliance Co. |
| " | " | Hickenbotham Bros. |
| Westwood | " | Woodworkers Supply Co. |
| Colorado | Denver | Al Plonkey & Associates |
| Idaho | Boise | Boise Payette Lumber Co. |
| " | " | Intermountain Equipment Co. |
| " | " | M.R.Priest & Sons |
| " | " | Intermountain Equipment Co. |
| Montana | Pocatello | Carl Weissman & Sons |
| " | Great Falls | Builders Machinery Co. |
| Nevada | Livingston | Inland Service & Supply |
| " | Las Vegas | Sierra Machinery Co. |
| New Mexico | Reno | Albuquerque Machine & Supply Co. |
| " | Albuquerque | Contractors Equipment & Supply |
| Oregon | Eugene | John Warren Hardware Co., Inc. |
| " | Medford | Stamper & Goff Bros. |
| " | Portland | Barbo Machinery Co. |
| " | Roseburg | Gerding's |
| Utah | Salt Lake City | Arnold Machinery Co. |
| " | " | Equipment Supply Co. |
| " | " | Clyde G.Larsen |
| Washington | Seattle | Buckner-Weatherby Co., Inc. |
| " | Spokane | Hayden Tool Specialty Co. |
| " | Tacoma | Campbell Industrial Supply Co. |

CONSTRUCTION MACHINERY CO.
Glenwood and Vinton
Waferloo, Iowa

PRODUCTS: Concrete, Plaster & Mortar Mixers; Truck Mixers; Holsts; Pumps; Batching Equipment; Placing Equipment; Masonry Saws.

DISTRICT REPRESENTATIVE

| | | | |
|------------|------------|-----------------------|-------------|
| California | San Carlos | 1440 Cordilleras Ave. | Edw.R.Daley |
|------------|------------|-----------------------|-------------|

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Garlinghouse Bros. |
| " | Redding | Moore Equipment Co. |
| " | Sacramento | " |
| " | San Francisco | Standard Machinery Co. |
| " | Stockton | Moore Machinery Co. |
| Colorado | Denver | Gunderson-Taylor Machinery Co. |
| Idaho | Boise | Feenoughy Machinery Co. |
| Montana | Billings | Industrial Equipment Co. |
| " | Missoula | Westmont Tractor & Equipment Co. |
| Nevada | Reno | Moore Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Feenoughy Machinery Co. |
| Utah | Salt Lake City | Helner Equipment & Supply Co. |
| Washington | Seattle | Hatten Machinery Co. |
| " | " | Universal Equipment Co. |
| " | Spokane | Intermountain Equipment Co. |

CONTINENTAL MOTORS CORP.
205 Market Street
Muskegon, Michigan

PRODUCTS: Red Seal Internal Combustion Engines, Air-Cooled from 1-1/2 to 3 h.p., and Liquid-Cooled from 10 to 270 h.p., for use on all standard fuels; engineered to specialized needs in agriculture, transportation and industry and built to more than 2,000 different specifications.

REGIONAL OFFICE AND WAREHOUSE

CONTINENTAL SALES AND SERVICE CO.

| | | | |
|------------|-------------|--------------------|--|
| California | Los Angeles | 3817 Santa Fe Ave. | B.F.Tobin, Jr., Pres. |
| " | " | " | J.O.Longenecker, VP in Charge of Sales |

WESTERN SERVICE REPRESENTATIVE

| | | | |
|------------|--------|-----------------|---------------|
| California | Covina | 780 Cypress St. | G.L.Hitchcock |
|------------|--------|-----------------|---------------|

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Automotive Sales Co. |
| " | Tucson | Smith Equipment Service |
| California | Bakersfield | Glenn Rose Engine Service |
| " | El Centro | Valley Auto Supply |
| " | Fresno | Art Schedler's Engine Rebuilders |
| " | Long Beach | Smith & Thorp |
| " | Los Angeles | Hervat Truck Equipment Co. |
| " | Modesto | Barnes Machine Shop |
| " | Sacramento | Gerlinger Motor Parts |
| " | San Diego | Auto Gear & Supply |
| " | San Francisco | Charles W.Carter Co. |
| " | San Jose | Penniman & Richards |
| " | Santa Ana | James Requaith |
| " | Stockton | Automotive Parts Co. |
| Oregon | Portland | Automotive Equipment Co. |
| Utah | Salt Lake City | Motor Mercantile Co. |
| Washington | Seattle | A.H.Cox & Co. |
| " | Spokane | Automotive Equipment Co. |

CONTRACTORS MACHINERY CO.
2661 Southwest Boulevard
Kansas City 8, Missouri

PRODUCTS: New and Rebuilt Pile Driving Equipment and Accessories; Steel Sheet Piling, Rental and Sale.

THE CONVEYOR COMPANY
3260 East Slauson Ave.
Los Angeles 58, Calif.

PRODUCTS: Batchers; Belt Fasteners; Bins; Conveyors; Crushers; Crushing Plants; Crushing Rolls; Elevators; Feeders; Steel Forms; Gravel Plants; Grizzlies; Hoppers; Jaw Crushers; Mixing Plants; Rock & Gravel Equipment; Screens; Storage Bins; Street Sweepers; Tunnel & Dam Forms; Vibrators; Washing Plants; Weighing Batchers; Batch Printing Recorders; Conveyor Scales; SandDewatering Equipment.

COOK BROS. EQUIPMENT CO.
3330 San Fernando Road
Los Angeles 65, California

PRODUCTS: Heavy Duty Trucks; Truck Equipment; Challenge Truck Mixers; Crane Carriers; Dual Chain Drives; Dual Gear Drives; Dump Bodies; Hydraulic Holsts; Trailers; Telescopic Dump Trailers; Bottom Dump Trailers; Six Wheel Attachments; Frame Extensions.

FACTORY BRANCHES

| | | | |
|------------|---------|-----------------|--------------------|
| Arizona | Phoenix | 2300 S.16th St. | M.H.Anderson, Mgr. |
| California | Oakland | 416 E.8th St. | James Nelson, Mgr. |

FACTORY REPRESENTATIVES

| | | | |
|------------|----------|------------------|-------------|
| Colorado | Aurora | 2350 Jamaica St. | Eldon Klatt |
| Oregon | Portland | 7205 N.Tyler | Chas.Chaney |
| Washington | Seattle | P.O.Box 331 | Chas.P.Cook |

THE F.D.CUMMER & SON CO.
1827 E. 18th Street
Cleveland 6, Ohio

PRODUCTS: Asphalt Plants; Bituminous Mixing Plant; Bituminous Paving Tools; Elevators; Jacketed Pipe & Fittings; Vibratory Screens.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------|
| California | Los Angeles | Smith-Booth-Usher Co. |
| " | San Francisco | Edward R.Bacon Co. |
| Colorado | Denver | Roy Corson Machinery Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Seattle | Hatten Machinery Co. |

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

CUMMINS ENGINE CO., INC.
Fifth and Union Streets
Columbus, Indiana

PRODUCTS: Lightweight High-Speed Diesel Engines (60-600) for On-highway Trucks; Off-highway Trucks; Buses; Tractors; Earthmovers; Shovels; Cranes; Industrial Locomotives; Air Compressors; Logging Yards and Loaders; Drilling Rigs; Centrifugal Pumps; Generator Sets and Power Units; Work Boats and Pleasure Craft.

REGIONAL MANAGERS

| | | | |
|------------|-------------|--------------------|---------------|
| California | Los Angeles | All W. Fifth St. | W. Sandham |
| Colorado | Denver | Denver Natl. Bldg. | L.E. Williams |
| Washington | Seattle | Security Bldg. | C.J. Wilhite |

DISTRIBUTORS

| | | |
|------------|----------------|--|
| Arizona | Phoenix | Cummins & Moran |
| California | Bakersfield | Cummins Service & Sales |
| | Fresno | Watson & Meehan |
| | Los Angeles | Cummins Service & Sales |
| | Redding | Watson & Meehan |
| | San Francisco | " " |
| Colorado | Denver | Cummins Diesel Sales of Cal., Inc. |
| Idaho | Boise | Cummins Diesel Sales of Idaho, Inc. |
| Montana | Billings | Cummins Diesel Sales of Montana, Inc. |
| New Mexico | Albuquerque | Cummins Rio Grande Sales & Service |
| Oregon | Eugene | Cummins Diesel Sales of Oregon, Inc. |
| | Portland | " " |
| Utah | Salt Lake City | Cummins Intermountain Diesel Sales Co. |
| Washington | Seattle | Cummins Diesel Sales of Washington, Inc. |
| | Spokane | Cummins Diesel Sales, Inc. |
| Wyoming | Casper | Cummins Diesel Sales of Wyoming, Inc. |

DART TRUCK COMPANY
2623 Oak Street
Kansas City 8, Missouri

PRODUCTS: Heavy Duty Off-Highway Trucks; Coal Haulers; Crane Carriers; Transit Mixers.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------|
| Arizona | Prescott | Prescott Tractor Sales |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | Oakland | C.H. Grant Co. |
| Colorado | Denver | Western Machinery Co. |
| Oregon | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Bow Lake Equipment Co. |
| | Spokane | Western Machinery Co. |

DAVENPORT BESLER CORPORATION
2305 Rockingham Road
Davenport, Iowa

PRODUCTS: Locomotives; Snow Plows; Grey Iron Castings.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | O.S. Stapley Co. |
| California | San Francisco | Western Traction Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| Montana | Billings | Western Construction Equipment Co. |
| | Great Falls | " " |
| | Missoula | " " |
| Nevada | Reno | Jenkins & Albright |
| Oregon | Portland | Edward L. Kropp Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Clyde Equipment Co. |
| | | Northern Commercial Co. |
| | Spokane | Modern Machinery Co., Inc. |
| Wyoming | Cheyenne | Cheyenne Truck & Implement Co. |

DAVEY COMPRESSOR CO.
600 Franklin Avenue
Kent, Ohio

PRODUCTS: Portable Compressors; Stationary Compressors; Truck Mounted Compressors; Field Repair Units; Air Tools; Rock Drills.

DETROIT DIESEL ENGINE
DIVISION OF GENERAL MOTORS CORP.
13400 West Outer Drive
Detroit 28, Michigan

PRODUCTS: Series 51, 71 and 6-110 2-cycle GM Diesel Engines, 27 to 762 h.p., fan-to-flywheel and base-mounted (package power) units; also 20 KW to 200 KW GM Diesel Generator Sets, AC or DC, for "off-the-line" or emergency service.

WESTERN FACTORY REPRESENTATIVES

| | | | |
|------------|-------------|---------|---------------|
| California | Los Angeles | Manager | A.W. Anderson |
| Colorado | Denver | " | H.K. McAfee |
| Washington | Seattle | " | J.T. Hanna |

DISTRIBUTORS AND DEALERS

| | | |
|---------|-------------|--------------------------|
| Arizona | Casa Grande | Engine Service Co. |
| | Phoenix | O'Connell Brothers, Inc. |
| | Tucson | Les Kahl |

Continued next column

DETROIT DIESEL ENGINE DIV. (CONTINUED)

| | | |
|------------|----------------|-----------------------------------|
| California | Bakersfield | Lawless Brothers, Inc. |
| | Berkeley | West Coast Engine & Equipment Co. |
| | El Cajon | Deakins-Lane Diesel Co. |
| | Eureka | Atkins Tractor Co. |
| | Fort Bragg | West Coast Engine & Machine Works |
| | Jenner | Jenner Garage |
| | Long Beach | Smith & Thorpe |
| | Los Angeles | Anderson-O'Brien Co. |
| | Marysville | Randolph Machinery Co. |
| | Monterey | Hover Equipment Co. |
| | Sacramento | Rhea Tractor & Engine Co. |
| | Stockton | Equipment Sales & Service |
| | Ventura | Gem Equipment Co. |
| | Visalia | Tulare County Tractor Co. |
| Colorado | Denver | Colorado Builders' Supply Co. |
| Idaho | Boise | Southern Idaho Equipment Co. |
| | Idaho Falls | " " |
| | Twin Falls | " " |
| Montana | Billings | Seltz Machinery Co., Inc. |
| | Great Falls | " " |
| | Kalispell | " " |
| | Missoula | Mountain Tractor Co. |
| New Mexico | Albuquerque | The Harry Cornelius Co. |
| | Clovis | Western Machinery Co. |
| Nevada | Reno | Sierra Machinery Co., Inc. |
| Oregon | Coos Bay | Harbor Diesel & Supply Co. |
| | Eugene | Gunderson Bros. Engineering Corp. |
| | Medford | Haupert Tractor Co. |
| | Newport | Campbell's Diesel Service |
| | Portland | Gunderson Bros. Engineering Corp. |
| Utah | Salt Lake City | Cafe Equipment Co. |
| Washington | Bellingham | Bellingham Engine & Equipment Co. |
| | Seattle | Evans Engine & Equipment Co. |
| | Spokane | Modern Machinery Co., Inc. |
| Wyoming | Casper | Colorado Builders' Supply Co. |

DE WALT, INC.
Fountain Avenue
Lancaster, Pennsylvania

PRODUCTS: Woodworking Machinery; Radial Arm Saws; Tools and Accessories.

REPRESENTATIVES

| | | | |
|------------|---------------|----------------------|-----------------|
| California | Beverly Hills | 9385 Charleville Rd. | W.H. Dudley |
| | Oakland | 6316 Chelton Drive | W.M. Willoughby |
| Colorado | Denver | 495 Clarkson | P.J. Gregory |
| Washington | Seattle | 14635 25th St. SW | J.B. Mitchell |

DISTRIBUTORS

| | | |
|------------|---------------|-------------------------------------|
| Arizona | Phoenix | Arizona Welding Equipment Co. |
| | Tucson | Electric Tool & Supply Co. |
| | | Industrial Tool & Supply |
| California | Anaheim | Ronstad's Hardware |
| | Bakersfield | Power Tool & Supply Co. |
| | El Centro | Bakersfield Sandstone Brick Co. |
| | Fresno | Imperial Hardware Co. |
| | Long Beach | Haven Saw & Tool Co. |
| | Los Angeles | Imperial Hardware Co. |
| | " " | Acme Industrial Supply Co. |
| | " " | Electric Tool & Supply |
| | " " | Hoffman & Heert |
| | Oakland | Union Hardware & Metal Co. |
| | " " | Haven Saw & Tool Co. |
| | " " | Mechanics Tool & Supply |
| | Pasadena | John P. King |
| | Riverside | J.R. Westbrook Co. |
| | Sacramento | Haven Saw & Tool Co. |
| | San Carlos | " " |
| | San Diego | Acme Tool & Supply |
| | " " | Hammond Machine & Supply Co. |
| | " " | Whitney's Dept. Store |
| | San Francisco | Haven Saw & Tool Co. |
| | San Jose | " " |
| | Santa Ana | Knox Hardware |
| | Santa Barbara | Otto Hardware Co. |
| | Santa Maria | Farmers Hardware & Implement |
| | Van Nuys | Builders Emporium |
| Colorado | Denver | Associated Builders Supply Co. |
| | " " | Hendrie & Boltoff Co. |
| | " " | Western Machinery Co. |
| | Pueblo | Abmor Supply Company |
| Idaho | Boise | M.R. Priest & Sons, Inc. |
| | " " | The Sawtooth Co. |
| | Idaho Falls | Arnold Machinery Co., Inc. |
| | " " | Brunts, Inc. |
| | Lewiston | Erb Hardware Co., Ltd. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " |
| | Great Falls | " " |
| | Havre | Treasure State Supply Co. |
| | Livingston | Builders Machinery Co. |
| | Missoula | Missoula Mercantile Co. |
| Nevada | Las Vegas | Inland Service & Supply Co. |
| | Reno | Commercial Hardware Co. |
| New Mexico | Albuquerque | Equipment Sales & Mfg. Co. |
| | " " | Gorman Engineering Co. |
| Oregon | Astoria | Fisher Bros. |
| | Coos Bay | A-B Day & Co. |
| | Corvallis | Corvallis Hardware |
| | Eugene | Loggers & Contractors Machinery Co. |

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

DE WALT, INC. (CONTINUED)

| | | |
|------------|----------------|-------------------------------------|
| Oregon | Portland | Chown Hardware |
| " | " | Loggers & Contractors Machinery Co. |
| " | " | Star Machinery Co. |
| Utah | Salem | Salem Hardware |
| " | Salt Lake City | Arnold Machinery Co., Inc. |
| " | " | Industrial Supply Co. |
| Washington | Bellingham | Bellingham Hardware Co. |
| " | Hoquiam | F.G. Foster |
| " | Seattle | Northern Commercial Co. |
| " | " | Star Machinery Co. |
| " | Spokane | Jensen-Byrd Co. |
| " | " | Star Machinery Co. |
| " | Wenatchee | Wells & Wade |
| Wyoming | Casper | Wyoming Builders Service |

DIAMOND CHAIN COMPANY, INC.
402 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Roller Chains; Sprockets; Conveyor Chains;
Flexible Shaft Couplings.

FACTORY REPRESENTATIVES

| | | | |
|------------|-------------|-------------------|---------------------|
| California | Los Angeles | 900 Santa Fe Ave. | J.H.Crews, Repr. |
| " | Menlo Park | 1090 El Camino | H.W.King, Dist.Mgr. |

DISTRIBUTORS

| | | |
|------------|---------------|----------------------------------|
| Arizona | Phoenix | Semon Bearing & Supply Co. |
| " | Tucson | Tucson Bearing Co. |
| California | Bakersfield | Power Transmission Equipment Co. |
| " | Fresno | Pacific Mill & Mine Supply Co. |
| " | Los Angeles | Degen-Flege Co. |
| " | Billings | Power Transmission Equipment Co. |
| " | Sacramento | Western Industrial Supply Co. |
| " | San Diego | Hudson Equipment Co. |
| " | San Francisco | Horsford Bros. |
| " | " | Monarch Supply Co. |
| " | Santa Clara | " |
| " | Stockton | Hickinbotham Bros. |
| Colorado | Denver | Colorado Bearing Co. |
| Montana | Billings | Power Transmission Equipment Co. |
| New Mexico | Albuquerque | The Harry Connellus Co. |
| Oregon | Coos Bay | Woodbury & Littlebo, Inc. |
| " | Eugene | Woodbury Eugene |
| " | Medford | Woodbury Medford |
| " | Portland | Woodbury & Company |
| Washington | Everett | Washington Belting & Rubber Co. |
| " | Seattle | " |
| " | Tacoma | " |
| Wyoming | Casper | Buda Engine Sales & Service |

DIAMOND IRON WORKS, DIVISION
GOODMAN MANUFACTURING CO.
Halsted St. & 48th Place
Chicago 9, Illinois

PRODUCTS: Sand, Gravel and Rock Crushing; Screening and
Handling Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Shaw Sales & Service Co. |
| " | Oakland | C.H.Grant Company |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Seltz Machinery Co., Inc. |
| " | Missoula | Miller Machinery Company |
| New Mexico | El Paso | Equipment Supply Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Seattle | Toten Equipment Co. |
| " | " | Western Tractor & Equipment Co. |
| " | Spokane | " |

DIXON VALVE & COUPLING CO.
Hancock St. & Columbia Ave.
Philadelphia 22, Pa.

PRODUCTS: Hose Couplings and Air Valves.

FACTORY BRANCH

| | | | |
|------------|-------------|-------------------|--------------------|
| California | Los Angeles | 2333 E.Eighth St. | P.M.Herdwick, Mgr. |
|------------|-------------|-------------------|--------------------|

REGIONAL MANAGER

| | | | |
|--------|-----------|------------------|---------------|
| Oregon | Beaverton | 412 SW Fairmount | Thos.P.McNish |
|--------|-----------|------------------|---------------|

DISTRIBUTORS

All distributing concerns who have a mechanical hose line.

**CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURS**

DORR-OLIVER, INC.
Berry Place
Stamford, Connecticut

PRODUCTS: Clarifiers; Digesters, Sewage Sludge; Distributors,
Rotary Sewage; Filtration Plant Equipment;
Flocculating Equipment; Grit Removal Equipment;
Sand and Gravel Plants; Screens; Sewage; Sewage
Treatment Equipment; Sludge Collectors; Sludge
Dewaterers, Mechanical; Thickeners; Water Softening
Equipment; Water Purification Equipment; Aerators;
Agitators; Filters; Vacuum Filters; Sand Plants.

FACTORY BRANCHES

| | |
|------------|-------------|
| California | Los Angeles |
| Colorado | Denver |
| Washington | Seattle |

DOTMAR INDUSTRIES, INC.
302 Hanselman Building
Kalamazoo, Michigan

PRODUCTS: Dotmar "Speedmaster" Curb and Gutter, Sidewalk,
Highway Strip Widening, Highway Mail Curb Pavers;
Dotmar "Airmite" Pneumatic Hammer and Tools.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Alaska | (Seattle) | Northern Commercial Co. |
| Arizona | Phoenix | The O.S.Stapley Co. |
| California | Los Angeles | Gridley Equipment Co. |
| " | Oakland | C.H.Grant Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Montana | Billings | Western Construction Equipment Co. |
| New Mexico | Albuquerque | Contractors' Equipment & Supply Co. |
| Oregon | Portland | Contractors' Equipment Corp. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Seattle | Andrews Machinery of Washington, Inc. |

DOUG-LYNN MANUFACTURING CO.
339 Fifteenth Street
Oakland 12, California

PRODUCTS: True-Lay Paver, Model 8 and Model 8A with Agitator;
True-Roll, 2 - 3 ton Roller with Cradle-Trailer.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------|
| California | Los Angeles | Smith-Booth-Usher Co. |
| " | San Francisco | Edward R.Bacon Co. |
| Arizona | Phoenix | Western Machinery Co. |
| Colorado | Denver | " |
| Utah | Salt Lake City | " |
| Washington | Seattle | " |
| " | Spokane | " |
| " | Seattle | Toten Equipment Co. |

DRAKE-WILLIAMS-MOUNT CO.
P.O.Box 1126
Omaha 1, Nebraska

PRODUCTS: "Omaha" Dragline Buckets.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Alaska | (Seattle) | Northern Commercial Co. |
| California | Berkeley | Owen Bucket Co., Ltd. |
| " | Los Angeles | Garlinghouse Bros. Co. |
| " | " | Electric Tool & Supply Co. |
| Colorado | Denver | H.W.Moore Co. |
| " | " | Graham Road Equipment Co. |
| Utah | Salt Lake City | Faulger Equipment Co. |
| Washington | Seattle | A.H.Cox & Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

DRESSER MANUFACTURING DIVISION
44 Fisher Avenue
Bradford, Pennsylvania

PRODUCTS: Couplings, Pipes; Fittings; Expansion Joints; Repair
Clamps, Pipe; Split Repair Sleeves, Pipe.

FACTORY BRANCH

| | | | |
|------------|-----------------|---------------------|------------|
| California | S.San Francisco | 101 S.Airport Blvd. | R.J.Drigas |
|------------|-----------------|---------------------|------------|

REGIONAL MANAGERS

| | | | |
|------------|-----------------|---------------------|-------------|
| California | S.San Francisco | 101 S.Airport Blvd. | R.J.Drigas |
| Colorado | Denver | 3221 Leyden St. | D.V.Hackett |

MANAGER - WESTERN WATERWORKS SALES

| | | | |
|----------|--------|----------------|--------------|
| Colorado | Denver | 2400 13th Ave. | N.J.Thompson |
|----------|--------|----------------|--------------|

DISTRIBUTORS

| | | |
|------------|---------------|---------------------------------------|
| California | Los Angeles | Bethlehem Supply Co. of California |
| " | " | The Republic Supply Co. of California |
| " | San Francisco | Grinnell Co. of the Pacific |
| Colorado | Denver | Hendrie & Bothoff Co. |
| Oregon | Portland | Consolidated Supply Co. |
| " | " | Waterworks Supplies Co. |
| Washington | Seattle | Western Utilities Supply Co. |

**C. I. T. finances installment sales
of equipment for many Distributors**

DREYER VIBRATOR COMPANY
509-11 E. 16th Street
Los Angeles 15, California

PRODUCTS: High Speed and Heavy Duty Concrete Vibrators.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Smith Booth Usher Co. |
| | Sacramento | Edward R. Bacon Co. |
| | San Francisco | " |
| Colorado | Denver | Western Machinery Co. |
| Utah | Salt Lake City | " |
| Idaho | Boise | Engineering Sales & Service, Inc. |
| New Mexico | Albuquerque | J.D. Coagins Co. |
| Oregon | Portland | Andrew & Andrew Equipment Co. |
| Washington | Seattle | Rox Lake Equipment Co. |
| | Spokane | Blackwell-Coleman Equipment Co. |

DROTT MANUFACTURING CORPORATION
3841 West Wisconsin Avenue
Milwaukee 8, Wisconsin

PRODUCTS: Skid-Shovels; Skid-Loaders; Bulldozer Shovels; Scarifiers; Grubber Blades.

DISTRICT REPRESENTATIVES

| | | |
|------------|-------------|-------------------|
| California | Los Angeles | Charles Rieckhoff |
| Washington | Seattle | James Blackmore |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| | Tucson | F. Ronstadt Hardware Co. |
| | Yuma | Yuma Equipment Co. |
| California | Alliuras | Farmers Exchange of Modoc, Inc. |
| | Bakersfield | Kern County Equipment Co., Inc. |
| | Chico | North Valley Tractor & Equipment Co. |
| | El Centro | Purdy-Holmquist Co. |
| | Escondido | Southern Equipment & Supply Co. |
| | Eureka | Howard-Cooper Corp. of Calif. |
| | Five Points | Allied Equipment Co. |
| | Fresno | " |
| | King City | Farmers Mercantile Co. |
| | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | Madera | Allied Equipment Co. |
| | Merced | Scarborough Implement Co. |
| | Modesto | Stanislaus Implement Hardware Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| | Onard | L.G. Maulhardt Equipment Co. |
| | Redding | Allied Equipment Co. |
| | Redding | Sullivan & Grove Equipment Co. |
| | Riverside | Braman-Dickerson Co., Inc. |
| | Sacramento | Sacramento Valley Tractor Co. |
| | Salinas | Farmers Mercantile Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | San Jose | Valley Equipment Co. |
| | Santa Maria | Henson Equipment Co. |
| | Santa Rosa | Stevenson Equipment Co. |
| | Stockton | Graco |
| | Stratford | Orton's Equipment Co. |
| | Visalia | Exeter Mercantile Co. |
| | Watsonville | Farmers Mercantile Co. |
| | Woodland | Graco |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Missoula | Treasure State Equipment Co. |
| | Kellispell | " |
| Nevada | Las Vegas | Clark Co. Wholesale Merc. Co., Inc. |
| | Reno | Nevada Equipment Service, Inc. |
| New Mexico | Albuquerque | J.D. Coagins Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Burns | Craddock-Sheppard Co. |
| | Central Point | Howard-Cooper Corp. |
| | Coquille | " |
| | Eugene | " |
| | Haines | Haines Commercial Co. |
| | Klamath Falls | J.W. Kerns Co. |
| | Newport | Howard-Cooper Corp. |
| | Portland | " |
| | Roseburg | " |
| Utah | Salt Lake City | The Lsing Company |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

DUFF-NORTON MANUFACTURING CO.
2710 Preble Avenue
Pittsburg 30, Pennsylvania

PRODUCTS: Lifting Jacks for Industrial Use.

DISTRIBUTORS

| | | |
|------------|-------------|---------------------------------|
| California | Anaheim | Pipe Line Specialties |
| | Berkeley | Berkeley Industrial Supply Co. |
| | Bakersfield | Inland Equipment Co. |
| | El Centro | Imperial Hardware Co. |
| | Fresno | Graybar Electric Co. |
| | " | Inter-Valley Equipment Co. |
| | Gilroy | Be-Ge Manufacturing Co. |
| | Long Beach | American Wholesale Hardware Co. |

Continued next column

DUFF-NORTON MANUFACTURING CO. (CONTINUED)

| | |
|---------------|--------------------------------------|
| Los Angeles | Almquist Bros. |
| " | Brown-Bevis Industrial Equipment Co. |
| " | California Hardware Co. |
| " | Constructors Supply Co. |
| " | Ducommun Metals & Supply Co. |
| " | Fornaciari Co. |
| " | Garlinghouse Brothers |
| " | General Electric Supply Co. |
| " | Graybar Electric Co. |
| " | Harper & Reynolds Corp. |
| " | G.W. Hassler |
| " | Howard Supply Co. |
| " | Oil Well Supply Co. |
| " | Larsen Equipment Co. |
| " | Stanley E. Morris Co. |
| " | Rawlins Bros. |
| " | Republic Supply Co. |
| " | Smith-Booth-Usher Co. |
| " | J.G. Tucker & Son |
| " | Union Hardware & Metal Co. |
| " | Vernon Engineering Co. |
| Oakland | Edward R. Bacon Co. |
| " | Bovlin Equipment Co. |
| " | Gilmore Fabricating Co. |
| " | Graybar Electric Co. |
| " | Howard Supply Co. |
| " | Industrial Equipment Co. |
| " | Mechanics Tool & Supply Co. |
| " | Noble Co. |
| " | Republic Supply Co. |
| " | Ricker Machinery Co. |
| " | Voegtly & White |
| " | Western Tool Supply Co. |
| " | J.H. Wilson Co. |
| Sacramento | Edward R. Bacon Co. |
| " | General Electric Supply Co. |
| " | Graybar Electric Co. |
| " | Thompson-Diggs Co. |
| San Diego | Hudson Equipment Co. |
| " | Western Metal Supply Co. |
| San Francisco | Edward R. Bacon Co. |
| " | Baker & Hamilton |
| " | Fred E. Barnett Co. |
| " | C.H. Bull Co. |
| " | C.F. Bulloff Machinery Co. |
| " | California Industrial Supply Co. |
| " | Walter R. Caffr Co. |
| " | Coast Equipment Co. |
| " | Dunham, Carrigan & Hayden |
| " | General Electric Supply Co. |
| " | General Machinery & Supply Co. |
| " | Gilmore Steel & Supply Co. |
| " | A.J. Glesener Co. |
| San Francisco | Graybar Electric Co. |
| " | Harbor Supply Co. |
| " | C.H. Hendry Co. |
| " | C.M. Lovstad & Co. |
| " | Marshall Newell Supply Co. |
| " | C.W. Marwedel Co. |
| " | Miller & Stern Supply Co. |
| " | Geo. M. Philpott Co. |
| " | A.D. Schader Co. |
| " | Sloss & Brittain |
| " | Standard Machinery Co. |
| " | Westinghouse Electric Supply Co. |
| San Jose | Republic Supply Co. |
| Stockton | Hickinbotham Bros. |
| Oregon | Andrews & Andrews Equipment Co. |
| Portland | Clyde Equipment Co. |
| " | A.W. Davis Supply Co. |
| " | General Electric Corp. |
| " | General Tool Co. |
| " | Graybar Electric Co. |
| " | Marshall-Wells Co. |
| " | Railway Equipment Co. |
| " | Star Machinery Co. |
| " | Weeks-Hove-Emerson Co. |
| " | Zidell Machinery & Supply Co. |
| Washington | Seattle |
| " | Andrews Machinery Co. |
| " | Clyde Equipment Co. |
| " | A.H. Cox & Co. |
| " | General Electric Supply Co. |
| " | Graybar Electric Co. |
| " | C.M. Lovstad & Co. |
| " | Marshall-Wells Co. |
| " | Schwabacker Hardware Co. |
| " | Seattle Hardware Co. |
| " | Star Machinery Co. |
| " | Western Tractor & Equipment Co. |
| " | Westinghouse Electric Supply Co. |
| " | Andrews Equipment Service |
| " | Construction Equipment Co. |
| " | General Electric Supply |
| " | Graybar Electric Co. |
| " | Jensen-Byrd Co. |
| " | Marshall-Wells Co. |
| " | Star Machinery Co. |
| " | Western Machinery Co. |
| " | Westinghouse Electric Supply Co. |
| Tacoma | Graybar Electric Co. |
| " | Hunt & Moffet Co. |
| " | W.S. Walter Co. |

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

K.O.DUNCAN COMPANY
1526 North Potrero Ave.
El Monte, California

PRODUCTS: A Multiple Piston Hydraulic Jack for breaking concrete where the use of explosives is prohibited.

EAGLE CRUSHER CO., INC.
900 Harding Way East
Gallion, Ohio

PRODUCTS: Jaw Crushers; Pulverizers and Hammer Mills; Crushing Equipment; Truck Mounted Bucket Loaders.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Neill B. McGinnis Equipment Co. |
| California | Los Angeles | Calaver Corporation |
| | San Francisco | FWD Pacific Co. |
| | (Salt Lake) | Western Machinery Co. |
| Idaho | " | " |
| Utah | Salt Lake City | " |
| Washington | Spokane | " |

EAGLE IRON WORKS
129 Holcomb
Des Moines, Iowa

PRODUCTS: Aggregate Washing-Classifying-Dehydration Equipment; Clay Plant Equipment; Eagle "Gvintek" Traveling Screen Chain Type Cutter; Breaker Balls; Pile Hammers and Follow Blocks; Dredging Ladders; Gravel Log Washers; Sand and Gravel Washers-Classifiers-Dehydrators; Sand and Gravel Tanks; Water Scalping Pans; Grinding and Wet and Dry; Planers; Shales; Crushers, Roll, Clay; Crushers, Roll, Coal.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Los Angeles | Brown-Berks Industrial Equipment Co. |
| | " | Fernholtz Machinery Co. |
| | " | Walter C. Stoll & Sons |
| | San Francisco | Coast Equipment Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Western Construction Equipment Corp. |
| | Missoula | " |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | N.C. Ribble Company |
| Oregon | Portland | P.L. Crooks & Co., Inc. |
| Utah | Salt Lake City | The Lang Company |
| Washington | Seattle | Jack Sahiberg Equipment Co. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Casper | Kereml Tractor & Equipment Co. |
| | Cheyenne | " |

EATON MANUFACTURING CO., AXLE DIV.
739 E. 140th Street
Cleveland, Ohio

PRODUCTS: Truck Axles, Front & Rear; Single Reduction, Double Reduction, 2-Speed Tandem.

ECONOMY FORMS CORP.
4301 N.E. 14th St.
Des Moines 13, Iowa

PRODUCTS: Steel Forms for Concrete Construction.

E. H. EDWARDS COMPANY
Butler Road & Industrial Way
South San Francisco, California

PRODUCTS: Wire Rope.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|----------------|
| California | Los Angeles | Manager | Paul Sanderson |
| Oregon | Portland | " | Fred Butler |
| Washington | Seattle | " | Ralph Brown |

EIMCO CORPORATION
634 South 4th West - Box 300
Salt Lake City, Utah

PRODUCTS: Mine, Tunnel & Surface Loaders; Excavators; Tractors; Folding Scrapers; Solid Scrapers; Continuous Vacuum & Pressure Filters; Geared Air Motors; Air Locomotives; Trade Names "Rockershovels" and "Ufalov".

REGIONAL MANAGER

California Berkeley J.K. Russell

BRANCH MANAGERS

| | | |
|------------|----------|-----------------|
| California | Berkeley | E.G. Burger |
| Idaho | Keillogg | B.J. Dick Inson |
| Montana | Missoula | G. Helm |
| Texas | El Paso | H.W. Foester |

ELECTRIC STEEL FOUNDRY COMPANY
2141 N.W. 25th Avenue
Portland 10, Oregon

PRODUCTS: Dragline, Dipper, Fastback Hoe Dipper, Orange Bell, Clamshell Buckets; Grapples; Points, Adapters, Blades, Blade Ends, Dozer-Rooters.

FACTORY BRANCHES

| | | | |
|------------|----------------|-----------------------------|---------------|
| California | Los Angeles | 4600 Pacific Blvd. | Joe Blake |
| | San Francisco | 1280 65th St., Emeryville | Hal Robb |
| Oregon | Eugene | 1464 W. 6th St. | Lloyd Maxwell |
| Utah | Salt Lake City | 1455 S. 2nd W., PO Box 1379 | Garland Allen |
| Washington | Seattle | 1131 W. Hanford St. | Bill Lattimer |

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------|
| Arizona | Phoenix | Arizona Machinery Co. |
| Colorado | Denver | McGov Company |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Spokane | Intermountain Equipment Co. |

ELECTRIC TAMPER & EQUIPMENT CO.
Ludington
Michigan

PRODUCTS: Generator Sets; Power Plants; Soil Compaction Units; Vibrators; Vibratory Screens.

ESSICK MANUFACTURING COMPANY
1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Bituminous Distributors; Portable and Stationary Compressors; Dredging Equipment; Material Handling Hauls; Paving Material Levellers; Plaster, Mortar, Concrete and Plant Mixers; Self-Priming and Diaphragm Power Pumps; Tandem Road Rollers; Paving Material Spreader; Road Roller Trailers; Winches; Mortar Boxes; Weed and Pest Control Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Equipment Sales Company |
| California | Arvin | E.O. Mitchell, Inc. |
| | Bakersfield | " |
| | El Centro | W.K. Equipment Co. |
| | Escondido | Southern Equipment & Supply Co. |
| | Eureka | Howard-Copper Corporation |
| | Five Points | Allied Equipment Co. |
| | Fresno | " |
| | Madera | " |
| | Oakland | Ricker Machinery Co. |
| | Ontario | A.A. Equipment Sales & Rentals |
| | Onnard | L.G. Maulhardt Equipment Co. |
| | Redding | Sullivan & Grove Equipment Co. |
| | Reedley | Allied Equipment Company |
| | San Bernardino | W.K. Equipment Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | Santa Ana | Blvstone Equipment Co. |
| | Yreka | Floyd A. Boyd Company |
| Colorado | Denver | King & East Machinery Corp. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | " |
| Nevada | Las Vegas | Inland Service & Supply Corp. |
| | " | Blvstone Equipment Co. of Nevada |
| | Reno | Nevada Equipment Service, Inc. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| Oregon | Albany | Howard-Copper Corporation |
| | Central Point | " |
| | Coquille | " |
| | Eugene | " |
| | Portland | Clyde Equipment Company |
| | " | Howard-Copper Corporation |
| | Roseburg | " |
| Utah | Salt Lake City | Lund Machinery Company |
| Washington | Seattle | Clyde Equipment Company |
| | Spokane | General Machinery Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |
| Alaska | (Seattle) | Northern Commercial Co. |

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

E.D. ETNYRE & CO.
Oregon
Portland

PRODUCTS: Bituminous Distributors; Hauling Tanks & Maintenance Units; Asphalt Pumps; Street Flushers & Sprinklers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Neill B. McGinnis Co. |
| California | Los Angeles | Crook Co. |
| | Richmond | Bay Equipment Co. |
| Colorado | Denver | Colorado Builders & Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " " |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Oregon | Eugene | Howard-Cooper Corp. |
| | Portland | " " |
| | Klamath Falls | " " |
| | Roseburg | " " |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Casper | Colorado Builders' Supply Co. |

EUCLED DIVISION, GENERAL MOTORS CORP.
1361 Chardon Road
Cleveland 17, Ohio

PRODUCTS: Earth Moving Equipment.

DISTRICT MANAGERS

| | | | |
|------------|-------------|-------------------|--------------|
| California | Sacramento | 710 La Sierra Dr. | H.P. Behl |
| Colorado | Denver | 110 Ivy Street | E.C. Dellen |
| Montana | Great Falls | 2000 1st Ave., N. | M.W. Miller |
| Washington | Spokane | 31 W. 37th St. | M.H. Johnson |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Alaska | (Seattle) | Western Tractor & Equipment Co. |
| Arizona | Phoenix | Min-A-Con Equipment Co. |
| California | Monrovia | Geo. M. Philoott Co., Inc. |
| | Oakland | " " |
| | Sacramento | " " |
| | San Francisco | " " |
| Colorado | Denver | Colorado Builders' Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " " |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Great Falls | " " |
| | Missoula | " " |
| Nevada | Reno | Sierra Machinery Co., Inc. |
| New Mexico | Albuquerque | Lively Equipment Company |
| Oregon | Portland | P.L. Crooks & Company |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Western Tractor & Equipment Co. |
| | Spokane | Intermountain Equipment Co. |
| | Tacoma | Western Tractor & Equipment Co. |
| Wyoming | Casper | Colorado Builders' Supply Co. |

EUGENE ENGINEERING CO.
1405 W. 1st Street
Eugene, Oregon

PRODUCTS: EECO Rock Drills.

EVEREADY BRIKSAW COMPANY
1509 S. Michigan Blvd.
Chicago 5, Illinois

PRODUCTS: Masonry Saws and Blades; Concrete Saws and Blades.

SALES MANAGER

| | | | |
|----------|---------|------------------------|--------------|
| Illinois | Chicago | 1509 S. Michigan Blvd. | E.W. Perkins |
|----------|---------|------------------------|--------------|

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Lively Equipment Co. |
| California | Los Angeles | Calmo Engineering Co. |
| | " " | Consolidated Rock Products Co. |
| | " " | M.N. Thacker Company |
| | San Diego | Southern Equipment & Supply Co. |
| | San Francisco | Edward R. Bacon Company |
| | Santa Monica | Higgins Building Materials, Inc. |
| Colorado | Denver | Western Machinery Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " " |
| Nevada | Las Vegas | Inland Service & Supply Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | E.J. Bartells Company |
| | Seattle | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | E.J. Bartells Company |
| | Spokane | Star Machinery Co. |
| | Tacoma | E.J. Bartells Company |
| Wyoming | Cheyenne | Powers Builders Supply |

FEIKER MANUFACTURING CO.
Torrance
California

PRODUCTS: Feiker DI-Met Concrete Cutting Machines; Masonry Saws; Tile Cutting Saws; Diamond Abrasive Cut-Off Blades; Abrasive Cut-Off Blades.

FRANK B. FERRIS, JR.
1297 Muscott Street
San Bernardino, California

PRODUCTS: Ferris Brush Grubber; H & L Ferris Brush Grubber.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Starline Equipment Co. |
| California | Bakersfield | Hopper Machine Works, Inc. |
| | Fresno | Edward R. Bacon Co. |
| | Montebello | H & L Tooth Company |
| | Oakland | Edward R. Bacon Co. |
| | Sacramento | " " |
| | San Francisco | " " |
| Colorado | Aurora | M.J. Crose Manufacturing Co. |
| | Denver | Air Rentals, Inc. |
| Idaho | Boise | Starline Equipment Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " " |
| Nevada | Reno | Pioneer Equipment Co. of Nevada |
| | " " | C.R. Roeder Equipment Co. |
| | " " | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Central Point | " " |
| | Coquille | " " |
| | Eugene | " " |
| | Seaside | " " |
| | Portland | " " |
| | Roseburg | " " |
| Utah | Salt Lake City | Heiner Equipment & Supply Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Modern Machinery Co. |

FLECO CORPORATION
1375 W. Church Street
Jacksonville 3, Florida

PRODUCTS: "Fleco" Land Clearing Equipment; Detachable Stumper; Pull Stumper; Root Rake; Rock Rake; Brush Rake; Treedozer; Tree Cutter; Undercutter; Rolling Dual Chopper; Motor Grader V-Plane; Cab Guard Rail; Subtilage Tool-Cone.

WESTERN REPRESENTATIVE

| | | | |
|------------|-----------|-----------------|------------------|
| Washington | Vancouver | 1914 E. 8th St. | E.V. Frankenberg |
|------------|-----------|-----------------|------------------|

All Distributors for the Caterpillar Tractor Co.

FLEXIBLE ROAD JOINT MACHINE CO.
Warren
Ohio

PRODUCTS: Mechanical Joint Installing Machines; Automatic Spray-Curing Machines; Detroit Special Finishing Machines; Banlam Finishers; Panama Finishers; Bridge Finishing Machines; Mechanical Dovel and Tie Bar Installers; One Man Bridges; Longitudinal Float Bridges; Joint Finishing Bridges; Utility Bridges; Key Joint Plates; Subgrade Planers and Testers; Expansion Joint Holders; Hand Tools.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| California | N. Hollywood | Erick Equipment Co. |
| New Mexico | Albuquerque | Contractors Equipment Supply Co. |
| Utah | Salt Lake City | The Lang Company |

FOOTE CONSTRUCTION EQUIPMENT DIV.
BLAW-KNOX COMPANY
Mass. Street
Nunda, New York

PRODUCTS: Single and Dual Drum MultiFoote Pavers; ADMUN SR. and ADMUN JR. Black Top Pavers; Blaw-Knox Bituminous Paver Finishers.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------|
| Arizona | Phoenix | The O.S. Stapley Co. |
| California | Oakland | C.H. Grant Company |
| | Los Angeles | Shaw Sales & Service Co. |
| Colorado | Denver | Colorado Builders' Supply Co. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | " " |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| Nevada | (Oakland) | C.H. Grant Company |
| | (Los Angeles) | Shaw Sales & Service Co. |
| | (Salt Lake) | Foulger Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| | (Boise) | Western Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Washington Machinery Co. |
| | Spokane | Western Equipment Co. |
| | (Denver) | Colorado Builders' Supply Co. |
| | (Salt Lake) | Foulger Equipment Co. |

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

FOSTER TRAILER COMPANY, INC.
2026 Bay Street
Los Angeles 21, California

PRODUCTS: Tilt Bed Trailers 2 through 35 Ton Capacities; Low-Bed Trailers to 60 Ton Capacities; Semi and Full Trailers to 25 Ton Capacities; Loading and Pipe Dollies; Converter Dollies and Third Axle Units; Flat Bed and Stake Bodies; Special Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Superior Coach Sales & Service |
| California | Fresno | Peerless Tractor & Equipment Co. |
| | Los Angeles | Shaw Sales & Service Co. |
| | " | Smith-Booth-Jsher Co. |
| | Oakland | Buran Equipment Co. |
| | Redding | Moore Equipment Co. |
| | Riverside | Shaw Sales & Service Co. |
| | San Francisco | Heil Equipment Co. |
| | Sacramento | Moore Equipment Co. |
| | San Diego | Shaw Sales & Service Co. |
| | Santa Barbara | Ruck Sales, Inc. |
| | Stockton | Moore Equipment Co. |
| | Tustin | Schneider Tractor Co. |
| | (Portland) | Schetyk Equipment Corp. |
| Idaho | Kalispell | Mountain Tractor Corp. |
| Montana | Missoula | " |
| Nevada | Reno | Moore Equipment Co. |
| | Las Vegas | Clark County Wholesale Merc. Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Schetyk Equipment Corp. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | (Portland) | Schetyk Equipment Corp. |

L.B. FOSTER COMPANY
P.O. Box 1647
Pittsburgh 30, Pa.

PRODUCTS: Steel-Sheet Piling; H-S Lightweight Piling; H-Section Bearing Pile; Pipe for Piling; Steel Pipe & Fabrication; Welding Fittings and Flanges; New Relaying Rails; Track Accessories and Tools.

REGIONAL OFFICE

California Los Angeles 3460 Wilshire Blvd.

THE FOUR WHEEL DRIVE AUTO CO.
East 12th
Clintonville, Wisconsin

PRODUCTS: Four and Six-Wheel Drive Trucks; Truck Derricks; Earth Drills; Fire Engines; Road Maintenance Equipment; Snow Plows; Winches; Trailers.

DISTRICT MANAGERS

| | | | |
|------------|------------|--------------------|------------------|
| California | Burlingame | 1256 Cortez Ave. | Ronald C. Gehrke |
| | Fresno | 2526 Railroad Ave. | R.F. Holmes |
| | Pomona | 2204 Virginia Ave. | Jack Kelly |
| Oregon | Portland | 8427 SW 58th Ave. | Les Berndt |

DISTRICT MANAGERS

| | | | |
|------------|------------|--------------------|------------------|
| California | Burlingame | 1256 Cortez Ave. | Ronald C. Gehrke |
| | Pomona | 2204 Virginia Ave. | Jack Kelly |
| Oregon | Portland | 8427 SW 58th Ave. | Les Berndt |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| California | Los Angeles | Calavar Corporation |
| | San Francisco | The FWD Pacific Co. |
| Colorado | Denver | MacDonald Equipment Co. |
| Idaho | Boise | Feenaughy Machinery Co. |
| Montana | Helena | Steffeck Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Feenaughy Machinery Co. |
| Utah | Salt Lake City | Cate Equipment Co. |
| Washington | Seattle | Feenaughy Machinery Co. |
| | Spokane | " |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

FRUEHAUF TRAILER COMPANY
1444 South Alameda
Los Angeles, California

PRODUCTS: Commercial Truck-Trailers; Truck Bodies and Six-Wheel Attachments.

Northern & Southern Div. Mgr. A.V. Tice

| | | |
|------------|----------------|---------------|
| Arizona | Phoenix | Manager |
| California | Fresno | M.A. Pampy |
| | Los Angeles | John Culvert |
| | Oakland | S.K. Porter |
| | Sacramento | W.R. Pavla |
| | " | Low Plummer |
| Oregon | Portland | W.J. Jarvis |
| Texas | El Paso | P.L. Noakes |
| Utah | Salt Lake City | W.P. Quinn |
| Washington | Seattle | Z.W. Therrien |
| | Spokane | M.G. Holm |

FULLER MANUFACTURING CO.
Kalamazoo
Michigan

PRODUCTS: Transmissions.

Western District Branch (Warehousing for Wholesale only)
California Oakland 641 East 10th Street

Branches and dealers of the truck builders who use Fuller transmissions as original equipment.

THE GALLON ALLSTEEL BODY CO.
605 South Market Street
Gallion, Ohio

PRODUCTS: Hydraulic Hoists; Steel Dump Bodies; Hydraulic Tailgates; E-Z Pack Refuse Bodies.

WESTERN REGIONAL MANAGER

Missouri Kansas City Pickwick Hotel Earl F. Kelly

DISTRIBUTORS

| | | |
|------------|-------------|------------------------------|
| Arizona | Phoenix | Welch Manufacturing Co. |
| California | Oakland | F.A.B. Manufacturing Co. |
| | Los Angeles | Jumbo Equipment Co. |
| Colorado | Denver | Truck Equipment Co. |
| Idaho | Boise | Olson Manufacturing Co. |
| Montana | Billings | Midland Implement Co., Inc. |
| | Great Falls | " |
| Oregon | Portland | Newell Truck Equipment Co. |
| Washington | Spokane | Novelty Carriage Works, Inc. |
| | Seattle | Truck Welding Co., Inc. |

THE GALLON IRON WORKS & MANUFACTURING CO.
South Street
Gallion, Ohio

PRODUCTS: Motor Graders; Road Rollers.

REGIONAL MANAGERS

| | | | |
|------------|-----------|-------------------|-----------------|
| California | Inglewood | Box 2032 | Wm. A. Beale |
| Oregon | Portland | 3902 NE 36th Ave. | Robt. N. Shears |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| | Tucson | F. Ronstadt Hardware Co. |
| California | Bakersfield | Brown-Beris Industrial Equipment Co. |
| | Los Angeles | " |
| | San Francisco | Western Traction Co. |
| | Sacramento | " |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " |
| | Great Falls | " |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | P.L. Crooks Co., Inc. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Modern Machinery Co., Inc. |
| | Spokane | " |
| Wyoming | Casper | Western Equipment Co. |

GAR-BRO MANUFACTURING CO.
2415 East Washington Blvd.
Los Angeles 21, California

PRODUCTS: Concrete-placing Equipment; Power Carts; Wheelbarrows; Batching Plants and Bins.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| | " | Lee Redman Equipment Co. |
| | " | Luna Corporation |
| | " | Shriver Machinery Co. |
| California | Los Angeles | Western Machinery Co. |
| | San Francisco | Girlinghouse Brothers |
| | " | Edward R. Bacon Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | " | Montana Hardware Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | Construction Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |
| | Cheyenne | Kereml Tractor & Equipment Co. |

Helpful editorial material, authoritatively written, attracts steady readers—that's why **WESTERN CONSTRUCTION** is read by more contractors and engineers in the West and Alaska than any other construction publication—national, regional or local.

C. I. T. finances installment sales of equipment for many Distributors

GARDNER-DENVER CO.
Quincy
Illinois

PRODUCTS: Stationary and Portable Air Compressors; Rock Drills; Wagon Drills; Concrete Breakers; Backfill Tampers; Clay Diggers; Power and Steam Reciprocating Pumps; Centrifugal Pumps.

FACTORY BRANCHES

| | | | |
|------------|----------------|---------|---------------|
| California | Los Angeles | Manager | C.W. McKey |
| | San Francisco | " | C.H. Dirks |
| Colorado | Denver | " | C.J. Manley |
| Idaho | Wallace | " | E.E. Vaughan |
| Montana | Butte | " | R.S. Gibson |
| Utah | Salt Lake City | " | F.S. Matheson |
| Washington | Seattle | " | B.D. Elliot |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Kingman | Central Commercial Co. |
| | Phoenix | O.S. Stapley Co. |
| | " | Jules Vermeersch |
| | Tucson | Albert Steinfeld & Co. |
| California | Los Angeles | Compressor Service Co. |
| | " | Pneumatic Machinery Co. |
| | " | Republic Supply Co. |
| | Riverside | Johnson Tractor Co. |
| | San Diego | Goold Hardware & Machinery Co. |
| | San Francisco | Geo. M. Philpott Co. |
| Colorado | Denver | Air Rentals, Inc. |
| | Grand Junction | Mine & Smelter Supply Co. |
| | Boise | Johnson Bit & Tool Co. |
| Idaho | Idaho Falls | Spencer Supply Co. |
| | " | Gene Flaherty |
| Montana | Billings | Pioneer Machinery Co. |
| | Great Falls | Great Northern Tool Co. |
| | Missoula | Agricultural Equipment Co. |
| | " | Sanderson Irrigation Sales |
| | " | Westmont Tractor Co. |
| Nevada | Ely | Hells Hardware Co. |
| | Las Vegas | Standard Wholesale Supply Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| | Vanadium | Mine Supply, Inc. |
| Oregon | Portland | Geo. M. Philpott Co. |
| | " | R.M. Wade & Co. |
| | " | Rogers Machinery Co. |
| Utah | Monticello | Western Mine Supply |
| | Salt Lake City | Air Equipment Co. |
| | " | Bogue Supply Co. |
| | " | Gallagher Machinery Co. |
| | " | Lang Co. |
| | " | Mine & Smelter Supply Co. |
| | Springville | Utah Service Co. |
| Washington | Seattle | C.H. Grimm Co. |
| | Spokane | General Machinery Co. |
| | " | Modern Machinery Co. |
| | Wenatchee | E.T. Pybus Co. |
| Wyoming | Rock Springs | Miners Mercantile Co. |

GARRISON MANUFACTURING COMPANY
1500 So. Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Hydraulic Steering Boosters and Special Hydraulic Equipment for Trucks, Truck Cranes, Graders and Tractors.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| California | Los Angeles | Calaver Corp. |
| | San Francisco | FWD Pacific Co. |
| | Sacramento | Moore Equipment Co. |
| Colorado | Denver | Liberly Truck & Parts Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Oregon | Portland | P.L. Crooks & Sons |
| Utah | Salt Lake City | Cate Equipment Co. |
| Washington | Spokane | Intermountain Equipment Co. |
| Wyoming | Casper | Studer Equipment Co. |
| | Cheyenne | Kereml Equipment & Tractor Co. |

GAR WOOD INDUSTRIES, INC.
Wayne
Michigan

PRODUCTS: Gar Wood Shovels; Cranes and Truck Cranes.

ASSISTANT SALES MANAGER

| | | | |
|------------|----------|---------------------|--------------|
| California | Richmond | Gar Wood Ind., Inc. | A.M. Guthrie |
|------------|----------|---------------------|--------------|

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | El Monte | Wernack-Bancroft Equipment Co. |
| | Oakland | Buran Equipment Co. |
| | " | " |
| Colorado | Denver | Western Machinery Co. |
| | Grand Junction | S & M Supply Company |
| Montana | Billings | Seltz Machinery Co. |
| | Great Falls | " |
| New Mexico | Albuquerque | Lively Equipment Co. |
| | Roswell | Smith Machinery Co. |
| Oregon | Eugene | Pape Brothers |
| Washington | Seattle | Aln-Mac, Inc. of Washington |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

GAR WOOD INDUSTRIES, INC.
4th and Wright Streets
Richmond, California

PRODUCTS: Gar Woods Hoists and Dump Bodies; Winches; Cranes and Derricks; Gar Wood Bottom Dump Hopper Bodies; Gar Wood Elevating End Gates; Hi-Lift Hoists; Load-Packer Refuse Collection Bodies.

National Liftz Jumbo Hoists; Pick-Up Dump-O-Matic Hoists; Pick-Up Lift-O-Matic Tailgate Lifts.

FACTORY BRANCHES

| | | | |
|------------|-------------|------------------|------------------------|
| California | Richmond | Bay Area Sales | George F. Martin, Mar. |
| | Los Angeles | 4515 S. Soto St. | A.F. Hoop, Mar. |

DIVISION SALES OFFICE

| | | | |
|------------|----------|------------------|--------------|
| California | Richmond | Division Manager | M.L. Shepard |
| | | Div. Sales Mgr. | D.J. Byrd |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Alaska | (Seattle) | Northern Commercial Co. |
| Arizona | Phoenix | Allison Steel Manufacturing Co. |
| California | Bakersfield | California Truck & Ind. Equip. Co. |
| | Fresno | Fresno Trailer Co. |
| | Pomona | Wm Ward Company |
| | San Diego | Utility Trailer Sales Co. |
| | Boise | The Sawtooth Company |
| | Pocatello | Williamsen Body & Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| Oregon | Portland | Pierce Trailer & Equipment Co. |
| Utah | Ogden | Williamsen Body & Equipment Co. |
| | Salt Lake City | Williamsen's, Inc. |
| Washington | Seattle | Transport Trailer Co. |
| | Spokane | General Machinery Co. |

GAR WOOD INDUSTRIES, INC.
Wayne
Michigan

PRODUCTS: Gar Wood Dozers & Power Control Units.

DISTRICT MANAGER

| | | | |
|------------|----------|----------------|---------------|
| California | Richmond | Gar Wood Ind., | Melvin Staben |
|------------|----------|----------------|---------------|

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Alaska | (Seattle) | Yukon Equipment, Inc. |
| Arizona | Phoenix | Neil B. McGinnis Equipment Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Eureka | Atkins Tractor Co. |
| | Fresno | Moore Equipment Co., Inc. |
| | Los Angeles | Shew Sales & Service Co. |
| | N. Sacramento | Moore Equipment Co., Inc. |
| | Oakland | Buran Equipment Co. |
| | Redding | Moore Equipment Co., Inc. |
| | Santa Clara | Buran Equipment Co. |
| | Stockton | Moore Equipment Co., Inc. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Southern Idaho Equipment Co. |
| | Idaho Falls | " " " " |
| | Twin Falls | " " " " |
| Montana | Billings | Seltz Machinery Co. |
| | Great Falls | " |
| | Missoula | " |
| | Sidney | " |
| Nevada | Elko | Mountain Tractor Co. |
| | Reno | Richland Machinery Co. |
| | " | A-D Machinery Co. |
| New Mexico | Albuquerque | Moore Equipment Co., Inc. |
| | " | Harry Cornelius Co. |
| | Roswell | Smith Machinery Co. |
| Oregon | Eugene | Pape Brothers |
| | Medford | Hauptel Tractor Co. |
| | Portland | Wood Tractor Co. |
| | The Dalles | Dielschneider Equipment Co. |
| Utah | Salt Lake City | Cate Equipment Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | American Machine Co. |
| | Wenatchee | Mid-State Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

GAR WOOD INDUSTRIES, INC.
Wayne
Michigan

PRODUCTS: Buckeye Ditchers; Hi-Way Wideners; Finegraders and Spreaders.

ASSISTANT SALES MANAGER

| | | | |
|------------|----------|---------------------|--------------|
| California | Richmond | Gar Wood Industries | A.M. Guthrie |
|------------|----------|---------------------|--------------|

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | El Monte | Wernack-Bancroft Equipment Co. |
| | Fresno | Moore Equipment Co., Inc. |
| | " | " |
| | N. Sacramento | " |
| | Oakland | Buran Equipment Co. |
| | Redding | Moore Equipment Co., Inc. |
| | Santa Clara | Buran Equipment Co. |
| | Stockton | Moore Equipment Co., Inc. |
| Colorado | Denver | Western Machinery Co. |
| | Grand Junction | S & M Supply Company |

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

GAR WOOD INDUSTRIES, INC. (CONTINUED)

| | | |
|------------|----------------|--------------------------------|
| Idaho | Boise | Southern Idaho Equipment Co. |
| | Idaho Falls | " " " " |
| | Twin Falls | " " " " |
| Montana | Billings | Seitz Machinery Co. |
| | Great Falls | " " " " |
| Nevada | Elko | A-D Machinery Co. |
| | Reno | Moore Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| | Roswell | Smith Machinery Co. |
| Oregon | Eugene | Pape Brothers |
| | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Spokane | Construction Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

GATE CITY STEEL
4000 Warm Springs Ave.
Boise, Idaho

PRODUCTS: Roto-Beater for Weed Control, etc; Fabricated Steel for Construction; Trailers--Bottom Dump, Low Bed.

QMC TRUCK & COACH DIVISION
General Motors Corporation
660 South Boulevard East
Pontiac 11, Michigan

PRODUCTS: QMC Trucks, Gasoline & Diesel.

DEALERS IN ALL PRINCIPLE CITIES

GILSON BROTHERS COMPANY
Fredonia
Wisconsin

PRODUCTS: Concrete Mixers; Mortar and Plaster Mixers; Limestone Pulverizers.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------|
| California | San Diego | Hudson Equipment Co. |
| Colorado | Denver | Mine & Smelter Supply Co. |
| Montana | Billings | Rental Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| Utah | Salt Lake City | C.H. Jones Equipment Co. |

THE GLEDHILL ROAD MACHINERY CO.
S. State Road 4
Gallion, Ohio

PRODUCTS: Snow-Plows; Spreaders; Graders; Grader Blades; Pavers; Road Maintainers; Earth Movers; Road-Side Sprayers; Portable Scales.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------|
| California | San Francisco | Western Traction Co. |
| Colorado | Denver | Woerber Auto Body |
| Idaho | Boise | Starline Equipment Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Westland Equipment Co. |
| Utah | Salt Lake City | Rasmussen Equipment Co. |
| Washington | Seattle | Modern Machinery Co. |
| | Spokane | " " " " |

GOOD ROADS MACHINERY CORP.
Bridge Street
Minerva, Ohio

PRODUCTS: Snow Plows; Spreaders (both aggregate and towed type); Leaf Collectors, Motorized Scavenger (a refuse collector); Underbody Scrapers.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | A.L. Young Machinery Co. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Salt Lake City | Lund Machinery Co. |
| Montana | Billings | Seitz Machinery Co. |
| | " | Montana Powder & Equipment Co. |
| | Helena | T.S. Cowger Company |
| Nevada | (Salt Lake) | Lund Machinery Co. |
| | (Los Angeles) | Smith-Booth-Usher Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Howard-Cooper Corp. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Seattle | Howard-Cooper Corp. |

GORMAN RUPP CO.
305 Bowman Street
Mansfield, Ohio

PRODUCTS: Self-Priming Centrifugal Pumps.

DISTRICT REPRESENTATIVES

| | | | |
|------------|---------------|-----------------|-------------------|
| California | Arcadia | 1811 S. 8th St. | Willits T. Holmes |
| Colorado | (Kansas City) | 6915 Linda Lane | Wm. S. Miller |
| New Mexico | (Houston) | 1475 Suebarnett | Geo. W. Erbe |
| Washington | Edmonds | Box 104 | Robert L. Nicolai |

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Fresno | Moore Equipment Co. |
| | Los Angeles | Harron, Rickard & McCone |
| | Oakland | Bay Cities Equipment, Inc. |
| | Redding | Moore Equipment Co. |
| | Sacramento | Bay Cities Equipment Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | McKelvy Machine Co. |
| Idaho | Boise | Starline Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " " " " |
| Nevada | Reno | Nevada Equipment Service, Inc. |
| New Mexico | Albuquerque | The Harry Cornelius Co. |
| Oregon | Portland | Anderson Machinery Co. |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | Andrews Equipment Service of Washington |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

W.E. GRACE MFG. COMPANY
6000 S. Lamar
Dallas, Texas

PRODUCTS: Road Sweepers; Pneumatic Rollers; Sheepfoot Rollers; Circulating Asphalt Heaters; Oil Heaters for Asphalt Storage; Chip Spreaders; Asphaltic Concrete Spreaders.

GRADALL DIVISION - WARNER & SWASEY CO.

5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Multi-Purpose Earthmoving and Construction Machine

FIELD ENGINEERS

| | | | |
|------------|-------------|-------------------|---------------------------------|
| California | Los Angeles | 3340 Leonis Blvd. | R. Bechtel S.H. Coffman, Jr. |
|------------|-------------|-------------------|---------------------------------|

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | San Francisco | Contractors Machinery Co. |
| | Boise | Engineering Sales Service Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Columbia Equipment Co. |
| | | " " " " |
| Idaho | Boise | Engineering Sales Service Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Columbia Equipment Co. |

GRIPHOIST, INC.
700 Polk Street
San Francisco 9, Calif.

PRODUCTS: The TIRFOR GRIPHOIST is a patented combined winch, hoist and cumalong).

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| California | Berkeley | J.R. Feehey |
| | Corcoran | Corcoran Machine Works |
| | Los Angeles | Abernathy & Co. |
| | " | Schuler & James, Inc. |
| | Rio Vista | Oilwell Materials Co. |
| | Sacramento | Oil Filter Service Co. |
| | San Diego | Hudson Equipment Co. |
| | San Francisco | C.H. Bull Co. |
| | Stockton | Stockton Iron Works |
| Colorado | Denver | Johnson Supply Co. |
| | Grand Junction | S & M Supply Co., Inc. |
| Idaho | Wallace | Coeur d'Alene Hardware & Foundry Co. |
| Nevada | Elko | A-D Machinery Co. |
| | Reno | Pioneer Equipment Co. of Nevada, Inc. |
| Utah | Salt Lake City | Cate Equipment Co. |

Construction methods in the West are different—therefore the reading requirements of Western contractors and engineers are different. To tell your sales story effectively in the West, put WESTERN CONSTRUCTION on your national schedule.

The WESTERN CONSTRUCTION Annual Highways Issue, published each Year in June, is a yearbook of progress in Western highway design, construction methods and costs. Advertisers in this special issue gain extra reader interest.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

GUNDERSON-TAYLOR MACHINERY CO.
1237 Shoshone Street
Denver, Colorado

PRODUCTS: Gunderson-Taylor Triplex Tampers.

DISTRIBUTORS

Any authorized dealer or distributor of air equipment.

GUNNISON MANUFACTURING CO.
201 Lynn Avenue
Baraboo, Wisconsin

PRODUCTS: Asphalt Distributors; Asphalt Supply Tanks;
Maintenance Distributors; Water Sprinklers and
Street Flushers.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------|
| California | Los Angeles | R.T. Muirhead Co. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Idaho Falls | Southern Idaho Equipment Co. |
| Montana | Billings | Seltz Machinery Co., Inc. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Seattle | Jack Sahlberg Equipment Co. |
| | Spokane | Construction Equipment Co. |

GEORGE HAISS MANUFACTURING CO., INC.
Subsidiary of Pettibone Mulliken Corp.
350 Fifth Avenue
New York 1, New York

PRODUCTS: Bucket Loaders; Snow Loaders; Coal Loaders; Clamshell
Buckets; Conveyors and Car Unloaders.

FACTORY BRANCH

California N. Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg.

DISTRICT REPRESENTATIVES

| | | | |
|------------|--------------|-------------------|----------------|
| California | N. Hollywood | 12147 Huston St. | C.W. Cadarette |
| Colorado | Denver | 2800 Newport St. | A.A. Ainlay |
| Washington | Seattle | 4975 3rd Ave. So. | N. Anderson |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Los Angeles | Calaver Corp. |
| | San Francisco | FWD Pacific Co. |
| | Stockton | Moore Equipment Co. |
| Idaho | Boise | Carl L. Burt Equipment Co. |
| Montana | Helena | Montana Powder & Equipment Co. |
| Nevada | Reno | Moore Equipment Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Modern Machinery Co., Inc. |
| | Spokane | " |
| Wyoming | Cheyenne | Mountain Equipment Co. |

THE HANSON CLUTCH & MACHINERY CO.
Miami Street
Tiffin 15, Ohio

PRODUCTS: Back Hoes; Truck & Wagon Cranes; Crawler Excavators;
Draglines; Pile Shovels; Shovels; Low Platform
Machinery Trailers; Truck Shovels; Yard & Dock
Cranes; 3 and 5 tons.

DISTRIBUTORS

| | | |
|------------|--------------|---------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| California | Los Angeles | Larson Equipment Co. |
| Oregon | Portland | Ted Henry Co. |
| Utah | N. Salt Lake | Taylor Machinery Co. |
| Washington | Seattle | Reliance Equipment & Supply Co. |

HARNISCHFEGER CORPORATION
4400 West National Avenue
Milwaukee 46, Wisconsin

PRODUCTS: Truck Cranes; Diesel Engines; Power Shovels; Soil
Stabilizers; Elevating Sierra Loaders; Welding
Equipment; Overhead Cranes; Electric Hoists;
Prefabricated Homes.

PACIFIC DIVISION HEADQUARTERS & PLANT

California Los Angeles General Manager T.J. Jeanneret

FACTORY BRANCHES

| | | | |
|------------|---------------|------------------|--------------|
| California | Los Angeles | District Manager | W.G. Godfrey |
| | San Francisco | " | L.M. Stout |
| Colorado | Denver | " | W.H. DeHuff |
| Washington | Seattle | " | P.H. Hunter |

DISTRIBUTORS

| | | |
|---------|----------|-------------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. (H-X) |
| | " | Smith & Klemmer Co. (WR) |
| | Prescott | United Auto Weld Co. (WR-X) |
| | | Arizona Mining Supply Corp. (WR) |

Continued next column

HARNISCHFEGER CORPORATION (CONTINUED)

| | | | | |
|------------|----------------|--|---|--|
| California | Alhambra | Frank Cox Equipment Co. (WR) | | |
| | Alturas | Moty & Van Dyke (WR) | | |
| | Bakersfield | Gordon's Industrial (H) | | |
| | " | Hopper Machine Works (H-WR) | | |
| | Berkeley | Leader Welding & Equipment Co. (WR) | | |
| | Compton | Industrial Welding Supply Co. (WR) | | |
| | Crescent City | Industrial Electric Service Co. (H) | | |
| | El Centro | Purdy & Holmquist (X) | | |
| | Emeryville | Balaam Bros. (WR) | | |
| | Escondido | Agricultural Supply Co. (WR) | | |
| | Eureka | Riley Logging (X) | | |
| | Fresno | Allied Equipment Co. (X) | | |
| | " | Federal Pipe & Supply Co. (WR) | | |
| | Glendale | H.M. Parker & Son (WR) | | |
| | Hawthorne | Sonnet Supply Co. (H) | | |
| | Long Beach | Long Beach Welders Supply Co. (WR) | | |
| | " | H.L. Tullis (WR) | | |
| | Los Angeles | Abco Welding Supplies (H-WR) | | |
| | " | Cook Bros. (X) | | |
| | " | Gordon Duff, Inc. (WR) | | |
| | " | P. George Pennington (WR) | | |
| | " | Ira G. Perin (H) | | |
| | " | Shaw Sales & Service Co. (WR) | | |
| | " | Southern Steel & Supply Co. (H) | | |
| | " | H.C. Witherspoon Co. (WR) | | |
| | Oakland | Roll-Rite Corp. (H) | | |
| | " | Thomas B. Middleton (WR) | | |
| | Ontario | A & R Equipment Co. (WR) | | |
| | Redding | Paul Droscher Sales (WR) | | |
| | Sacramento | Cal-Oxygen Company (WR) | | |
| | " | Capitol Machine Works (H) | | |
| | " | Sacramento Valley Tractor Co. (X) | | |
| | Salt Lake | Farmers Mercantile Co. (X-WR) | | |
| | " | Lacey Automotive Parts Co. (WR) | | |
| | San Bernardino | Reliable Bearing Co. (H) | | |
| | San Diego | Production Tools, Inc. (WR) | | |
| | " | Southern Equipment & Supply Co. (X-WR) | | |
| | San Francisco | California Tramrail Co. (H) | | |
| | " | Federal Pipe & Supply Co. (WR) | | |
| | " | General Conveyor, Inc. (H) | | |
| | " | Ira G. Perin Co. (H) | | |
| | " | Jay Besore & Associates (WR) | | |
| | " | Sullivan-Cassius Co. (WR) | | |
| | San Jose | A.G. Pond Company (WR) | | |
| | Santa Ana | V.B. Anderson Co. (WR) | | |
| | Santa Maria | Hanson Equipment Co. (X) | | |
| | Santa Rosa | E.C. Kraft & Co. (WR) | | |
| | Stockton | Hickinbotham Bros., Ltd. (WR) | | |
| Colorado | Denver | General Welding Supply Co. (H-WR) | | |
| | " | Liberty Trucks & Parts Co. (X) | | |
| | " | Lloyd's Railway Supplies (WR) | | |
| | " | No. One Company (PF) | | |
| | " | The Winter-Weiss Co. (WR) | | |
| | Fort Collins | Forney Manufacturing Co. (WR) | | |
| | Pueblo | Arkansas Valley Welders Supply (WR) | | |
| | " | Motor Accessory & Parts Co. (WR) | | |
| Idaho | Boise | Starline Equipment Co. (X) | | |
| | " | Western Equipment Co. (WR) | | |
| | Lexington | Erb Hardware Co. (WR) | | |
| | (Pocatello) | Western Machinery Co. (H) | | |
| | Billings | Industrial Equipment Co. (X-WR) | | |
| | Great Falls | Normont Equipment Co. (X-WR) | | |
| | Helena | Calid Engineering Works (WR) | | |
| | Kalispell | Treasure State Equipment Co. (X-WR) | | |
| | Reno | Jenkins & Alldrich (X) | | |
| | New Mexico | Albuquerque | Contractors Equipment & Supply Co. (WR) | |
| | | Leonard Motor Company (X-WR) | | |
| | Oregon | Eugene | American Steel & Supply Co. (H-WR) | |
| | | Klamath Falls | Moty & Van Dyke (WR) | |
| | | Portland | Elliott Sales (WR) | |
| | | " | Industrial Specialties Co. (WR) | |
| | | " | Loggers & Contractors Machinery (X-WR) | |
| | | Portland | Portland Machinery Co. (H) | |
| | | Roseburg | Industrial Electric Service Co. (H) | |
| | | Hurricane | Scholz Products Co. (WR) | |
| | | Ogden | C & C Welding Supply Co. (WR) | |
| | | Salt Lake City | Koepsel & Love (WR) | |
| | | " | Western Machinery Co. (X-H) | |
| | | Washington | Aberdeen | Industrial Electric Service Co. (H-WR) |
| | | | Bellevue | Edahl & Seppala, Inc. (WR) |
| | | | Ellensburg | Frank Hagen & Company (WR) |
| | | | Everett | Industrial Electric Service Co. (H) |
| | | | Forks | Ulin Maintenance & Supply Co. (WR) |
| | | | Pasco | Rindolp & Taylor Plumbing & Heating (WR) |
| | | | Seattle | Acetogen Cutting Gas Co. (WR) |
| | | | " | Air Mac, Inc. of Washington (H) |
| | | | " | Bow Lake Equipment Co. (X-WR) |
| | | | " | Glenn Carrington & Co. (Asia) (X-WR) |
| | | | Spokane | Construction Equipment Co. (X) |
| | | | " | Grange Cooperative Wholesale (WR) |
| | | | " | Washington Machinery & Supply Co. (H) |
| | | | Tacoma | Miraldi Welding Supplies, Inc. (WR) |
| | | | Wenatchee | Wells & Wade, Inc. (WR) |
| | | | Yakima | Arthur Krum Company (WR) |

CODE: "H" For Hoists; "X" For Excavators; "WR" For Welding.

Western contractors work all over the West; that's why it's important to use the magazine that covers ALL the West—WESTERN CONSTRUCTION.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

HARRIS MANUFACTURING COMPANY
712 Wilson Way
Stockton, California

PRODUCTS: Harris & Wheel Drive Tractors: Models FBW-C, F&W-C, FDW-C, R&W-C, ROW-C.

DISTRIBUTORS

| | | |
|------------|--------------|------------------------------------|
| Arizona | Tucson | Slack & Stewart |
| California | Alturas | Farmers Exchange of Modoc |
| | Chico | Slattery Tractor Co. |
| | Los Angeles | Crook Co. |
| | Merced | Ward Welding & Manufacturing Works |
| | Richmond | Bay Equipment Co. |
| Colorado | Denver | Tulare County Tractor Co. |
| | Franklin | Colorado Machinery & Supply Co. |
| Montana | Sidney | Porter Tractor Sales |
| Nevada | Reno | Williams Motor Co. |
| New Mexico | Albuquerque | Sierra Machinery Co. |
| Oregon | Clatskanie | N.C. Ribble Co. |
| | Eugene | Clatskanie Tractor Co. |
| | Independence | Eugene Farmers Coop. |
| | Medford | Francis Farm Equipment |
| | Pendleton | Cal-Ore Machinery Co. |
| Utah | Salt Lake | Temple Farm Equipment Co. |
| Washington | Colfax | Rocky Mountain Machinery Co. |
| | Olympia | McSweeney Tractor Co. |
| | Seattle | K & C Tractor Co. |
| | Walla Walla | Parts Distributors, Inc. |
| | Yakima | Melcher-Ray Machinery Co. |
| | | Westside Implement Co. |

HAUCK MANUFACTURING COMPANY
124-126 Tenth Street
Brooklyn 34, New York

PRODUCTS: Oil and Gas Burning Tar and Asphalt Melting Kettles; Lead Melting Furnaces; Compound Melting Furnaces; Portable Burners and Torches; Fire Guns; Asphalt Paving Tool Heaters; Asphalt Surface Heaters; Burners for Road Oil Distributors; Portable Hopper Car Thawing Tube Equipment; Steam Thawers.

FACTORY BRANCHES

| | | | |
|------------|---------------|---------|---------------------|
| California | San Francisco | Manager | H.B. Cleveland |
| | Los Angeles | " | Alvin M. Cunningham |
| Illinois | Chicago | " | D. Clark |

B.M. HIDE, INC.
80 Broad Street
New York 4, New York

PRODUCTS: Hydraulic Jacks for Slipform Construction; Steel Yokes; Pumps; Oil Pipe and Connections, etc.; Complete Equipment supplied for raising of forms - leased only; Slipform Machine for single silo construction - sold or leased.

THE HEIL COMPANY
3000 W. Montana St.
Milwaukee 1, Wisconsin

PRODUCTS: Truck Bodies and Holsts.

FACTORY BRANCH MANAGERS

| | | | |
|------------|-------------|--------------------|-----------------|
| California | Los Angeles | 417 So. Hill St. | Len Andersen |
| Colorado | Denver | 505 Colorado Bldg. | John Zimmermann |
| Washington | Seattle | 805 White Henry | Claude Conrad |
| | | Stuart Bldg. | |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Arizona | Phoenix | Utility Trailer Sales Co. |
| California | Los Angeles | Transportation Equipment Co. |
| | Modesto | Heil Equipment of Northern California |
| | San Francisco | " " " " |
| Montana | Billings | HCL Equipment Co. |
| | Great Falls | " " " " |
| | Missoula | Græhl Motor Service |
| Oregon | Portland | Schetyk Equipment Corp. |
| Utah | Salt Lake City | The Long Co. |
| Washington | Seattle | American Machine Co. |
| | | Glen Carrington Co. (Alaska) |

HELTZEL STEEL FORM & IRON CO.
Warren
Ohio

PRODUCTS: Portable Aggregate Batch Plants; Portable Bulk Cement Plants; Stationary Batching Plants for the Concrete Products; Transi-Mix and Central-Mix Industries; Bulk Cement Batching Plants; Concrete Buckets; Road and Airport Forms; Curb, Curb and Gutter, Sidewalk and Special Forms; Storage Bins; Bulk Cement Elevators; Truck Mixer Batchers; Combination Batchers; Universal Batchers; Dual Aggregate Batchers; Dustless Cement Batchers; Dual Cement Batchers.

DISTRIBUTORS

| | | |
|------------|-------------|-----------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Los Angeles | Carlinghouse Brothers |
| | Oakland | The Bruce Co. |

continued next column

HELTZEL STEEL FORM & IRON CO. (CONTINUED)

| | | |
|------------|----------------|------------------------------------|
| Colorado | Denver | Ray Corson Machinery Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " " " " |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | The Lang Company |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

HENDRIX MANUFACTURING COMPANY
Jenkins Street - P.O. Box 31
Mansfield, Louisiana

PRODUCTS: Dragline Buckets.
Write us for name of your nearest dealer

HENSLEY EQUIPMENT CO.
816 98th Avenue
Oakland 3, California

PRODUCTS: Ripping Attachments for Dozers and Carry Scrapers; Scarifier Points; Shanks; Overlay End Bits for Motor Patrols; Heavy Duty Rockbits for Dozer Blades; D-7 & D-8 Bottom Track Rollers; D-8 Roll; Cutting Edges.

DISTRIBUTORS

| | | |
|------------|-----------------|----------------------------------|
| Alaska | Anchorage | Western Tractor & Equipment Co. |
| | Fairbanks | " |
| Arizona | Phoenix | Western Machinery Co. |
| California | Chico | Chico Auto Parts |
| | Eureka | McGaraghan Supply Co. |
| | Los Angeles | John A. Batchelor |
| | Marysville | Hust Bros. |
| | Oroville | Oroville Auto Parts |
| | Redding | Louvy Equipment Co. |
| | San Diego | Hudson Co. |
| | San Luis Obispo | Farmers Hardware & Equipment Co. |
| | Stockton | Stockton Iron Works |
| | Ukiah | Holz Co. |
| Colorado | Denver | Joe Smith Machinery |
| | Grand Junction | S & M Supply Co. |
| | Trinidad | Herbert Sharpe Equipment Co. |
| Idaho | Boise | Engineering Sales Service |
| Montana | Kalispell | Treasure State Equipment Co. |
| | Missoula | " " " " |
| Nevada | Elko | Elko Blacksmith Shop |
| | Reno | Pioneer Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Eugene | Western Equipment Co. |
| | Medford | Cal-Ore Machinery Co. |
| Utah | Salt Lake City | J.T. Holland Co. |
| Washington | Seattle | Western Tractor & Equipment Co. |
| | Spokane | " " " " |
| | Tacoma | Western Machinery Co. |
| Wyoming | Cheyenne | Western Tractor & Equipment Co. |
| | | Kereml Tractor & Equipment Co. |

HERCULES MOTORS CORP.
101 Eleventh St., S.E.
Canton, Ohio

PRODUCTS: Internal Combustion Engine and Power Units.

FACTORY BRANCH

California Los Angeles 2336 S. Garfield Ave. W.D. Brumback

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Schuler & James, Inc. |
| California | Bakersfield | Hydro Precision Bearing Co. |
| | San Diego | Westerlund & Lange |
| | San Francisco | Bay Engine & Parts Co. |
| Colorado | Denver | Liberly Trucks & Parts Co. |
| Idaho | Boise | The Sawtooth Co. |
| Montana | Billings | Western Construction Equipment Co. |
| New Mexico | Albuquerque | Pound Brothers |
| Oregon | Portland | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Diamond T. Utah, Inc. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " " " " |

HERCULES POWDER COMPANY
225 Bush Street
San Francisco 4, California

PRODUCTS: High explosives and blasting supplies.

FACTORY BRANCHES

| | | | |
|------------|----------------|---------|------------------|
| California | San Francisco | Manager | F. Geo. Trescher |
| | Los Angeles | " | W.F. McCandlish |
| Utah | Salt Lake City | " | L.W. Early |

DISTRIBUTORS

Dealers are located in the major cities and towns throughout the West.

**C. I. T. finances installment sales
of equipment for many Distributors**

HERCULES STEEL PRODUCTS CORP.
Sherman Street
Gallion, Ohio

PRODUCTS: Hydraulic Hoists; Dump Bodies; Dump Trailers;
Telescopic Hoists; Lift Gates, Sand & Cinder
Spreaders; Agricultural Spreaders; Cement Spreaders.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------|
| Arizona | Phoenix | Southwestern |
| California | Los Angeles | Metalco Body Works, Inc. |
| | Oakland | Earl Sherman Co. |
| Colorado | Alamosa | McKah Equipment Co., Inc. |
| Idaho | Blackfoot | Custom Body Works |
| Oregon | Portland | Newell Truck Equipment Co. |
| Utah | Salt Lake City | Wegstaff Company |
| Washington | Seattle | Evergreen Trailer Co. |
| | | Jack Sahlberg Equipment Co. |

HERMAN NELSON DIVISION
American Air Filter Co., Inc.
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: Portable Space Heaters.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| California | Fresno | Edward R. Bacon Co. |
| | Oakland | " " " " |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| Idaho | Boise | Intermountain Equipment Co. |
| | (Idaho Falls) | Arnold Machinery Co. |
| | Pocatello | Intermountain Equipment Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | " " " " |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | Western Machinery Co. |
| | Tacoma | A.H. Cox & Co. |
| | Wenatchee | " " " " |

HETHERINGTON & BERNER, INC.
701 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Asphalt Plants; Moto-Pavers; Moto-Patchers; Sand
and Gravel Pumps; Jacketed Pipe & Fittings; Street
Paving and Maintenance Tools.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | O.S. Stapley Co. |
| California | Los Angeles | Crook Co. |
| Colorado | Denver | Liberty Trucks & Parts Co. |
| Montana | Helena | Montana Powder & Equipment Co. |
| Oregon | Portland | Contractors Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |

HIGHWAY EQUIPMENT CO., INC.
616 "D" Avenue Northwest
Cedar Rapids, Iowa

PRODUCTS: Spreaders; Sand, Salt, Cinder Spreaders for Seal Coat,
Ice Control and Dust Control; Tailgate Spinner Type,
Model DD, Model J Tailgate Traction Type; Truck
Mounted Drag Chain and Spinner Type, Models E & W;
Aggregate Spreader, Traction Driven, Force Feed,
Towed Type, Model R; Model A.S. Towed Type Bituminous,
Concrete and Aggregate Spreader; Bulk Cement Bodies,
Self-Unloading.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Los Angeles | Brown-Beris Industrial Equipment Co. |
| | San Francisco | Standard Machinery Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | Perkinson Tractor Co. |
| Montana | Billings | H.C.L. Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| Oregon | Portland | Feenoughy Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Spokane | Feenoughy Machinery Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

H. & L. TOOTH COMPANY
1540 South Greenwood Avenue
Montebello, California

PRODUCTS: Teeth for Excavating Equipment

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Bakersfield | Hopper Machine Co. |
| | Fresno | Edward R. Bacon Co. |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| Colorado | Denver | Air Rentals, Inc. |
| Idaho | Boise | Starline Equipment Company |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " " |
| | Great Falls | " " " " |
| Nevada | Reno | Sierra Machinery Co. |
| | | C.D. Roeder Equipment Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Howard-Cooper Corporation |
| Utah | Salt Lake City | Helmer Equipment Co. |
| Washington | Seattle | Howard-Cooper Corporation |
| | Spokane | Modern Machinery Co. |

HOBART BROTHERS
Hobart Square
Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units;
Combination Units; Welding Accessories & Electrodes.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Phoenix Welding Supply Co. |
| California | Emeryville | Belaam Brothers |
| | Fresno | S.J. Sigler |
| | Los Angeles | Anderson Equipment Co. |
| | Pleasant Hills | Hobart Welder Sales & Service |
| | San Diego | Myron A. King |
| | | Bailey Equipment Co. |
| | San Jose | San Diego Welders Supply Co. |
| | San Francisco | Pacific Hardware & Steel Co., Inc. |
| | | McCormick-Morgan Co. |
| | Santa Ana | J.R. Zelis |
| | Santa Maria | V.B. Anderson Co. |
| | Whittier | Coast Welding Supply |
| Colorado | Denver | Hobart Welder Sales & Service |
| | | Acetylene Service Co. |
| | Pueblo | General Welding Supply Co. |
| Idaho | Boise | J.F. Dammann Supply Co. |
| Montana | Billings | Intermountain Equipment Co. |
| | Great Falls | General Distributing Co. |
| Nevada | Las Vegas | General Service & Supply Co. |
| | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| | Farmington | Noel Hardware |
| Oregon | Portland | Welders Supply Co. |
| Utah | Salt Lake City | Whitmore Oxygen Co. |
| Washington | Seattle | Rock & Wright |
| | | Yukon Equipment, Inc. |
| | Spokane | Intermountain Equipment Co. |
| | | Spokane Welder Supply Co. |

HOMELITE CORPORATION
Riverdale Avenue
Port Chester, New York

PRODUCTS: Chain Saws; Generators; Gasoline-Engine Driven
Self-Priming Pumps; Blowers; Electric-Driven Pumps;
Floodlights.

FACTORY BRANCH MANAGERS

| | | | |
|------------|---------------|--------------------|-------------------|
| California | Fresno | 2308 Ventura St. | LaMer Cheney |
| | Los Angeles | 624 S. Anderson | C.E. Souhlvet |
| | Sacramento | 2234 Auburn Blvd. | Richard Dodelin |
| | San Francisco | 1201 Shafter St. | Robert C. Glidden |
| Oregon | Portland | 3436 S. Milwaukee | Guy E. Sabin |
| Utah | N. Salt Lake | 7440 Hiway 91 | Lynn Peterson |
| Washington | Seattle | 1911 22nd Ave., S. | A.D. Sherwood |
| | Spokane | E. 3927 Trent Ave. | John Cram |

DISTRIBUTORS

| | | |
|----------|--------|--------------------------|
| Colorado | Denver | Lloyd's Railway Supplies |
|----------|--------|--------------------------|

WESTERN CONSTRUCTION COVERS THE ENTIRE WEST

And it is the one publication that does

Read **WESTERN CONSTRUCTION** for—

- The latest job methods and costs in the West
- Up-to-date equipment and supply information
- Job progress news, who's doing what
- News of contractors, distributors, engineers

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE FRANK O. HOSHCO, Inc.
Libertyville
Illinois

PRODUCTS: "PAYLOADER" Tractor-Shovels; "PAYLOADER" Tractors.

| DISTRICT REPRESENTATIVES | | |
|--------------------------|---|---|
| California | Inglewood Hillsboro- San Mateo | Merle M.Fate |
| Colorado | Aurora | Donald O.Ross |
| Oregon | Portland | David B.Hunsaker Kenneth B.Larkin |
| DISTRIBUTORS | | |
| Arizona | Phoenix Tucson | State Tractor & Equipment Co. F.Ronsdorf Hardware Co. |
| California | Bakersfield Escondido Five Points Fresno Los Angeles Madera Redding Reedley Riverside Sacramento San Jose San Diego Santa Maria | Brown-Revis-Industrial Equipment Co. Southern Equipment & Supply Co. Allied Equipment Co. Brown-Revis-Industrial Equipment Co. Allied Equipment Co. Sullivan & Grove Equipment Co. Allied Equipment Co. Braman-Dickerson, Inc. Sacramento Valley Tractor Co. Valley Tractor Co. Southern Equipment & Supply Co. Hanson Equipment Co. |
| Colorado | Denver | H.W.Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings Great Falls Kallispell Missoula | Industrial Equipment Co. NorMont Equipment Co. Treasure State Equipment Co. |
| Nevada | Las Vegas Reno | Clark County Wholesale Mercantile Co. Nevada Equipment Service Co. |
| New Mexico | Albuquerque | J.D.Coggin Co. |
| Oregon | Albany Central Point Coquille Eugene Hermiston Klamath Falls Pendleton Portland Roseburg | Howard-Cooper Corp. Howard-Cooper Corp. " " " " Pendleton Grain Growers, Inc. J.W.Kerns Co. Pendleton Grain Growers, Inc. Howard-Cooper Corp. |
| Utah | Salt Lake City | The Lang Co., Inc. |
| Washington | Seattle | Glenn Carrington & Co. (for Alaskan) Howard-Cooper Corp. |
| | | Intermountain Equipment Co. |
| Wyoming | Spokane Cheyenne | Kereml Tractor & Equipment Co. |

THE HUBER MANUFACTURING CO.
202 N.Greenwood Street
Marion, Ohio

PRODUCTS: Three Wheel and Tandem Road Rollers; Motor Graders; Huber Maintainer.

| DISTRICT SALES MANAGER | | |
|------------------------|----------------|------------------------------------|
| California | San Jose | 11841 N.White Rd. C.M.Porter |
| DISTRIBUTORS | | |
| Arizona | Phoenix | The O.S.Stapley Co. |
| California | Los Angeles | Santa Fe Equipment Co. |
| Colorado | San Francisco | Coast Equipment Co. |
| Idaho | Denver | Colorado Builders Supply Co. |
| Montana | Boise | Feensoughly Machinery Co. |
| | Billings | Montana Powder & Equipment Co. |
| | Helena | " " |
| Nevada | Reno | Jenkins & Albright |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Feensoughly Machinery Co. |
| Texas | El Paso | Contractors Equipment & Supply Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Feensoughly Machinery Co. |
| | Spokane | " " |
| Wyoming | Casper | Colorado Builders Supply Co. |

HUGHES-KEENAN CORP.
Delaware
Ohio

| DISTRIBUTORS | | |
|--------------|------------------|---------------------------------|
| Arizona | (Los Angeles) | James P.Kinney Co. |
| California | Los Angeles | " " |
| Colorado | Denver | Casey-Metcalf Machinery Co. |
| Idaho | Billings | Joe Coursev Equipment Co., Inc. |
| Nevada | (Los Angeles) | Industrial Equipment Co. |
| | (Salt Lake) | James P.Kinney Co. |
| New Mexico | (Los Angeles) | Foulger Equipment Co. |
| Utah | (Salt Lake City) | James P.Kinney Co. |
| | (Billings) | Foulger Equipment Co. |
| Wyoming | (Denver) | Industrial Equipment Co. |
| | (Salt Lake) | Joe Coursev Equipment Co. |
| | | Foulger Equipment Co. |

THE HYSTER COMPANY
2982 NE Clackamas
Portland, Oregon

PRODUCTS: Winches; Looming Arches; Construction Equipment; Industrial Lift Trucks; Saddle Trucks; Mobile Cranes; Horizontal Transport Trucks.

| DEALERS | | |
|-------------------|----------------------|--|
| TRACTOR EQUIPMENT | | |
| Arizona | Phoenix Branches: | Arizona Machinery Co. Casa Grande, Coolidge, Flagstaff, Mesa, Tucson. Braden Machinery Co. |
| | Yuma | Wellton |
| California | Blythe Chico | Honnen Machinery Co. Sierra Tractor & Equipment Co. |
| | Branches: | Gridley, Red Bluff and Redding. I.G.Zumwalt Co. |
| | Branches: | Willows, Orland. |
| | El Centro | Faure Tractor & Equipment Co. |
| | Branches: | Brawley |
| | Eureka | Brizard-Mathews Machinery Co. |
| | Branches: | Crescent City, Arcata. |
| | Fresno | Budd & Quinn, Inc. |
| | Branches: | Firebaugh, Madera, Reedley. |
| | Hanford | Davies Machinery Co. |
| | Branches: | Bakersfield, Wasco, Corcoran. |
| | Los Angeles | Shepherd Tractor & Equipment Co. |
| | Branches: | Covina, Lancaster, Santa Ana, Saugus. |
| | Marysville | Marysville Tractor & Equipment |
| | Branches: | Robbins, Roseville. |
| | Merced | Hallion Tractor Co. |
| | Branches: | Chowchilla, Hanford, Banos. |
| | Modesto | Valley Tractor & Equipment Co. |
| | Branches: | Turlock. |
| | Napa | Berglund Tractor & Equipment Co. |
| | Branches: | Santa Rosa, Willits. |
| | Orland | Wallace Machinery Co. |
| | Riverside | Johnson Tractor Co. |
| | Branches: | Coachella, Ontario. |
| | Sacramento | Weaver Tractor Co. |
| | Branches: | Woodland, Dixon, Rio Vista |
| | Salinas | Pringle Tractor Co. |
| | Branches: | King City, Watsonville. |
| | San Diego | San Diego Tractor & Equipment Co. |
| | Branches: | Escondido |
| | San Jose | Ditz Bros. |
| | Branches: | Gilroy, Hollister. |
| | San Leandro | Peterson Tractor & Equipment Co. |
| | Branches: | Brentwood, San Francisco, Half Moon Bay. |
| | Santa Maria | Joseph G.Moore Co. |
| | Branches: | Galea, Lompoc, Paso Robles. |
| | Stockton | Holt Bros. |
| | Branches: | Lodi, Tracy. |
| | Visalia | Tresnor Equipment Co. |
| | Branches: | Delano, Porterville, Tulare. |
| Idaho | Boise | Bunting Tractor Co., Inc. |
| | Branches: | Burley, Twin Falls. |
| | Idaho Falls | Barkinson Tractor Co. |
| | Branches: | American Falls, Rexburg. |
| | Lewiston | Nez Perce Tractor & Equipment Co. |
| | Preston | Peterson Tractor Service |
| Montana | Missoula | Westmont Tractor & Equipment Co. |
| | Branches: | Kallispell. |
| Nevada | Las Vegas | James Cashman Co. |
| | Reno | Sanford Tractor & Equipment Co. |
| | Branches: | Elko. |
| Oregon | Klamath Falls | Crater Lake Machinery Co. |
| | Branches: | Medford, Tulelake, Redmond. |
| | LeGrande | Inland Machinery Co. |
| | Branches: | Enterprise, John Day. |
| | Ontario | Bunting Tractor Co. |
| | Pendleton | Empire Machinery Co. |
| | Branches: | Arlington, Athena, Heppner. |
| | Portland | Interstate Tractor & Equipment Co. |
| | Branches: | Astoria, Eugene, Coquille, Roseburg, Salem, The Dalles. |
| Utah | Logan | Peterson Tractor Service |
| | Branches: | Tremonton. |
| | Salt Lake City | Wheeler-Kershaw Co. |
| | Branches: | Moab. |
| Washington | Longview | Interstate Tractor & Equipment Co. |
| | Seattle | Collins Machinery Co. |
| | Branches: | Mt. Vernon, Port Angeles. |
| | Seattle | Northern Commercial Co. (Alaska) |
| | Spokane | Byrne-Ferris Machinery Co. |
| | Branches: | St. John. |
| | Tacoma | Murphy-Campbell Co. |
| | Walla Walla | Braden Tractor & Equipment Co. |
| | Branches: | Dayton. |
| | Wenatchee | Columbia Tractor Co. |
| | Branches: | Okanogan, Ephrata. |
| | Yakima | Webb Tractor & Equipment Co. |
| | Branches: | Connell, Ellensburg, Toppenish. |

Western contractors work all over the West; that's why it's important to use the magazine that covers ALL the West—WESTERN CONSTRUCTION.

C. I. T. specializes in financing equipment
for Distributors and Contractors

INDERSOLL-RAND COMPANY
11 Broadway
New York 4, New York

PRODUCTS: Backfill Tamper; Blowers; Clay Diggers; Clay Spades; Compressors; Concrete Breakers; Demolition Tools; Drills; Engines, Diesel; Engines, Gas; Grinders; Hoists; Pavement Breakers; Pumps; Rammers; Rock Bit Grinders; Rock Bits; Rock Drills; Saws; Spaders; Sump Pumps; Tamper; Vibrators; Wagon Drills.

WESTERN BRANCH OFFICES

| | | | |
|------------|----------------|-----------------|---------------|
| California | Los Angeles | 1460 E. 4th St. | W.J. Heinz |
| | San Francisco | 350 Brannan St. | W.C. Collier |
| Colorado | Denver | 1641 Blake St. | A.A. Holland |
| Idaho | (Salt Lake) | 144 SW Temple | R.W. Lawson |
| Montana | Butte | 845 S. Montana | R.L. Olund |
| Utah | Salt Lake City | 144 SW Temple | R.W. Lawson |
| Washington | Seattle | 526 1st Ave. S. | J.A. Anderson |

DISTRIBUTORS

| | | |
|------------|-----------------|-------------------------------------|
| Arizona | Kingman | Terr, McComb & Ware Comm. Co. |
| | Phoenix | State Tractor & Equipment Co. |
| | Prescott | Arizona Mining & Supply Co. |
| California | Arcata | Loggers & Mill Supply Co. |
| | Bishop | G & M Hardware & Supply Co. |
| | Fresno | Moore Equipment Co. |
| | Grass Valley | Alpha Hardware Store |
| | Los Angeles | Hillman Kelly |
| | N. Sacramento | Moore Equipment Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| | Redding | Moore Equipment Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | San Luis Obispo | A.E. Tomasini |
| | Santa Ana | Blystone Equipment Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Wellace | Coeur D'Alene Hardware Co. |
| Montana | Butte | Montana Hardware Co. |
| Nevada | Reno | Nevada Equipment Service Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Cole Equipment Co. |
| Washington | Seattle | Glenn Carrington Co. |
| | | Pacific Hoist & Derrick Co. |
| | | Intermountain Equipment Co. |
| Wyoming | Spokane | Wyoming Automotive Co. |
| | Casper | |

INSLEY MANUFACTURING CORP.
P.O. Box 167, 801 N. Olney St.
Indianapolis 6, Indiana

PRODUCTS: Power Shovels; Hoists; Cranes; Clamshell Cranes & Draglines; Rubber & Crawler Mounted; Gasoline, Diesel & Electric Power; Concrete Buckets, Cais, Hoppers & other Concrete Handling Equipment; Rubber Mounted Crane Concretes.

FACTORY BRANCH

| | | | |
|------------|-------------|----------------|----------------------|
| California | Los Angeles | The Maxi Corp. | J. Ray Elliott, Mgr. |
|------------|-------------|----------------|----------------------|

REGIONAL MANAGERS

| | | | |
|------------|-----------------|----------------|--------------|
| California | Los Angeles | 3278 Wilshire | Lee R. Smith |
| | Manhattan Beach | 1525 Tenth St. | D.J. Nelson |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Bakersfield | Inland Equipment Co. |
| | Los Angeles | Casey-Melcoff Machinery Co. |
| | Redding | Sullivan & Grove Equipment Co. |
| | San Francisco | Western Traction Co. |
| | Stockton | Graco |
| | Woodland | Graco |
| Colorado | Denver | King & East Machinery Corp. |
| | Grand Junction | S & M Supply Co. |
| Montana | Helena | Caird Engineering Works |
| Nevada | Las Vegas | Inland Service & Supply Corp. |
| New Mexico | Albuquerque | M & F Equipment Co. |
| | El Paso, Texas | Equipment Supply Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | |

INTERNATIONAL HARVESTER COMPANY
North Avenue & Mannheim Rd.
Melrose Park, Illinois

PRODUCTS: Industrial Crawler Tractors; Wheel Tractors; Motor Trucks; Power Units; Diesel Engines; Bulldozer Blades; Bulldozers; Scrapers

DISTRIBUTORS

| | | |
|------------|-------------|--------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| | Tucson | F. Ronstedt Hardware Co. |
| | Yuma | Yuma Equipment Co. |
| California | Bakersfield | Kern County Equipment Co., Inc. |
| | El Centro | Purdy-Holmquist Co. |
| | Eureka | Howard-Cooper Corp. |
| | Five Points | Allied Equipment Co. |
| | Fresno | |
| | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | Madera | Allied Equipment Co. |

INTERNATIONAL HARVESTER COMPANY (CONTINUED)

| | |
|-------------|---------------------------------|
| Modesto | Stanislaus Implement & Hardware |
| Oakland | Bay Cities Equipment, Inc. |
| Oxnard | L.G. Mulhardt Equipment Co. |
| Redding | Sullivan & Grove Equipment Co. |
| Redview | Allied Equipment Co. |
| Riverside | Braman-Dickerson Co. |
| Sacramento | Sacramento Valley Tractor Co. |
| Salinas | Farmers Mercantile Co. |
| San Diego | Southern Equipment & Supply Co. |
| San Jose | Valley Equipment Co. |
| Santa Maria | Hansen Equipment Co. |
| Santa Rosa | Stevenson Equipment Co. |
| Stockton | Graco |
| Stratford | Orion Equipment Co. |
| Watsonville | Farmers Mercantile Co. |
| Woodland | Graco |
| Colorado | H.W. Moore Equipment Co. |
| Idaho | Intermountain Equipment Co. |
| | Pocatello |
| Montana | Billings |
| | Kalispell |
| | Missoula |
| Nevada | Las Vegas |
| Oregon | Reno |
| | Albany |
| | Central Point |
| | Coquille |
| | Eugene |
| | Klamath Falls |
| | Pendleton |
| | Roseburg |
| Utah | Salt Lake City |
| Washington | Seattle |
| | Spokane |
| Wyoming | Cheyenne |

INTERNATIONAL MANUFACTURING CO.

675 Rio Grande Avenue
Littleton, Colorado

PRODUCTS: Chinoak Wind LP Gas Fired Portable Heaters; Chinoak Wind Ventilator and Heater Utility Type; Chinoak Wind All Purpose Torch.

DISTRIBUTORS

| | | |
|------------|------------------|------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Richmond | Bay Equipment Co. |
| | Glendale | Palmer Scaffolding Co. |
| Colorado | Colorado Springs | Colorado Springs Supply Co. |
| | Denver | King & East Machinery Co. |
| | | Dixons Linoleum Co. |
| | | Wholesale Flooring, Inc. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | |
| Montana | Great Falls | Hall-Perry Company |
| | Billings | |
| | Butte | |
| New Mexico | Albuquerque | Leonard Motor Co. |
| | Farmington | |
| Utah | Salt Lake City | Western Machinery Co. |
| | | C.H. Jones Equipment Co. |
| | | Hansen Lime & Slucco Co. |
| | | Western Equipment Co. |
| Washington | Spokane | Kern Tractor & Equipment Co. |
| Wyoming | Cheyenne | |
| | Casper | |

IOWA MANUFACTURING CO.

916 16th Street NE
Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; Soil Compaction Units; Coal Machinery; Washing Plants; Conveyors; Motorized Head Pulleys; Screens; Bins; Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants.

DISTRICT REPRESENTATIVES

| | | | |
|------------|---------------|--------------------|--------------------|
| California | San Francisco | 6 Fuente | O.E. "Bud" Whitney |
| Texas | Dallas | 6415 W. NE Highway | Ken V. Turner |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | |
| | Great Falls | |
| | Missoula | |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Oregon | Portland | P.L. Crooks & Co., Inc. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Ephrata | Intermountain Equipment Co. |
| | Seattle | Jack Sehlberg Equipment Co. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

Continued next column

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

IRVINGTON FORM & TANK CORP.
20 Vesey Street
New York 7, N.Y.

PRODUCTS: Atlas Compo Walls Forms (Plywood & Steel); Atlas Round Bridge Pier Forms; Atlas Speed Forms (All Steel); All types of special forms.

JACKSON VIBRATORS, INC.
Ludington
Michigan

PRODUCTS: Generator Sets; Power Plants; Soil Compaction Units; Vibrators; Vibratory Screens.

THE JAEGER MACHINE COMPANY
550 W. Spring Street
Columbus 16, Ohio

PRODUCTS: Pumps; Aggregate Spreaders; Concrete Mixers; Truck Mixers; Plaster and Mortar Mixers; Concrete Spreaders and Finishers; Air Compressors; Towers and Hoists; Front End Loaders.

FACTORY REPRESENTATIVES

| | | | |
|------------|--------------|--------------------|-------------------|
| California | Sherman Oaks | 5107 Mammoth Ave. | Herbert F. Twalts |
| Texas | Dallas | 6821 Merrilee Lane | John A. Schultz |

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | The Sawtooth Co. |
| Montana | Butte | Butte Machinery Co. |
| | Great Falls | Central Machinery Co. |
| | Sidney | Tractor & Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | " | Yukon Equipment Co. |
| | Spokane | Western Machinery Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

JETCO, INC.
1100 Westminster Ave.
Athens, California

PRODUCTS: Trencher Parts; Jiffy Teeth, Buckets, Side Cutters and Adapters.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Arlington | West Tractor Sales |
| | Ontario | Blair B. Downing |
| | San Francisco | Standard Machinery Co. |
| | Van Nuys | So-Cal Equipment & Supply Co. |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Engineering Sales & Service Co. |
| Nevada | Reno | General Equipment Co. |
| | Las Vegas | Blystone Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Company |
| Oregon | Portland | Contractors Equipment Co. |
| Utah | Salt Lake City | Rasmussen Equipment & Supply Co. |
| Washington | Seattle | Hulse Machinery Co., Inc. |

THE C.S. JOHNSON CO.
P.O. Box 71
Champaign, Illinois

PRODUCTS: Concrete Batching and Cement Handling Equipment; Clamshell and Concrete Buckets.

WEST COAST BRANCH OFFICE

| | | | |
|------------|----------|---------|--------------|
| California | Stockton | Manager | H.E. Buckler |
|------------|----------|---------|--------------|

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | (Los Angeles) | Cook Bros. Equipment Co. |
| California | Los Angeles | " " " " |
| | San Francisco | " " " " |
| | Stockton | Moore Equipment Co. (Buckets Only) |
| Colorado | Denver | King & East Machinery Corp. |
| Montana | Billings | Western Construction Equipment Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Box Lake Equipment Co. |
| | Spokane | American Machine Co. |
| Wyoming | Casper | Sluder Tractor & Equipment Co. |

Helpful editorial material, authoritatively written, attracts steady readers—that's why WESTERN CONSTRUCTION is read by more contractors and engineers in the West and Alaska than any other construction publication—national, regional or local.

JONES & LAUGHLIN STEEL CORP.
3 Gateway Center
Pittsburgh, Pennsylvania

PRODUCTS: Steel & Steel Products; Wire Rope; Tubular Products; Junior Beams and Channels.

DISTRICT SALES MANAGERS

| | | | |
|------------|---------------|----------------|---------------------|
| California | Los Angeles | J.H. Tice | Dist. Sales Manager |
| | San Francisco | R.G. Shearer | " " " " |
| Colorado | Denver | E.A. Toothaker | Res. Mgr. of Sales |

EARLE M. JORGENSEN CO.
10650 South Alameda St.
Los Angeles 54, California

PRODUCTS: "Goldedae" Blades (Cutting Edges for Earth-Moving Equipment).

FACTORY BRANCHES

| | | | |
|------------|-------------|---------------|-------------|
| California | Los Angeles | Mgr. of Sales | C. Schriber |
| | Oakland | District Mgr. | P.C. Childs |

JOY MANUFACTURING COMPANY
Oliver Building
Pittsburgh 22, Pa.

PRODUCTS: Air Compressors; Rock Drills; Wagon Drills; Paving Breakers; Spaders; Tampers; Trench Diggers; Portable Hoists; Air Hoses; Portable Lighting Systems; "Hydro Drills"; Jibs; Belt Conveyors.

DISTRICT SALES OFFICES

| | | | |
|------------|----------------|---------|-------------|
| California | Los Angeles | Manager | T.G. Weir |
| | San Francisco | " | L.C. Rhodes |
| Colorado | Denver | " | J.H. Emrick |
| Utah | Salt Lake City | " | K.A. Lehner |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | El Monte (LA) | Warnock-Bancroft Equipment Co. |
| | San Francisco | Coast Equipment Co. |
| Idaho | Boise | Carl R. Burt Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " " " " |
| Nevada | Reno | Sierra Machinery Co., Inc. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Clyde Equipment Co. |
| | Spokane | American Machine Co. |

KENWORTH MOTOR TRUCK CORP.
8801 E. Marginal Way
Seattle 14, Washington

PRODUCTS: Heavy Duty Trucks.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------|
| Arizona | Phoenix | J.T. Jenkins Co. |
| California | Fresno | " " " " |
| | Los Angeles | " " " " |
| | San Francisco | " " " " |
| Colorado | Denver | Colorado Kenworth Co. |
| Montana | Billings | Motor Power Equipment Co. |
| New Mexico | Albuquerque | J.T. Jenkins Co. |
| Oregon | Portland | Roberts Motor Co. |
| Utah | Salt Lake City | Kenworth Sales Co. |
| Washington | Seattle | Kenworth Motor Truck Corp. |
| | Spokane | Spokane Kenworth Co. |

JOS. F. KIESLER CO.
932 W. Huron Street
Chicago 22, Illinois

PRODUCTS: Clamshell Buckets.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------|
| California | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Smith-Booth-Usher Co. |
| | Oakland | Edward R. Bacon Co. |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| Colorado | Denver | McGoy Co. |
| | " | Western Machinery Co. |
| Idaho | Boise | Feenaughy Machinery Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " " |
| | Great Falls | " " " " |
| Oregon | Portland | Feenaughy Machinery Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Feenaughy Machinery Co. |
| | Spokane | " " " " |

KLAUER MANUFACTURING CO.
Dubuque
Iowa

PRODUCTS: Snow Plows; Sheet Metal Building Materials.

C. I. T. finances installment sales of equipment for many Distributors

KOEHRING COMPANY
3026 W. Concordia Avenue
Milwaukee 16, Wisconsin

PRODUCTS: Excavators; Crawler and Rubber Tired Mounted Cranes, Shovels, Hoes, Clamshells, Dragages; Construction Mixers, Tilt and non-tilt; Pavers, Crawler and Rubber Tire Mounted; Concrete Finishers; Mud-Jacks; Side-walk, Street, Highway and Railroad; Dumpers; Railroad Cranes.

DISTRIBUTORS

| | | |
|------------|-------------------|------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Los Angeles | Harron, Rickard & McCone Co. |
| | San Francisco | Standard Machinery Company |
| Colorado | Denver | McKelvy Machinery Company |
| Idaho | (Spokane) | American Machine Co. |
| | Boise | Engineering Sales & Service Co. |
| Montana | Billings | Western Construction Equipment Co. |
| Nevada | (San Francisco) | Standard Machinery Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | American Machine Co. |
| Wyoming | Billings (Denver) | Western Construction Equipment Co. |
| | | McKelvy Machinery Co. |

KOLMAN MANUFACTURING COMPANY
West 12th Street Road
Sioux Falls, South Dakota

PRODUCTS: Portable and Stationary Belt Conveyors; Conveyor-Screen Loading and Screening Plants (Portable); Vibrating Screens for Portable and Stationary Installations.

DISTRIBUTORS

| | | |
|------------|-----------------|------------------------------------|
| Arizona | Phoenix | Equipment Sales Company |
| | " | The O.S. Stapley Company |
| California | El Monte | Wernock-Bancroft Equipment Company |
| | San Francisco | S.A. Madrid |
| | San Luis Obispo | Madonna Construction Company |
| Colorado | Denver | A.I. Willis Sales Company |
| Idaho | Boise | Intermountain Equipment Company |
| Montana | Billings | Westate Machinery Company |
| | Sidney | Tractor & Equipment Company |
| Nevada | Las Vegas | Reynolds Engineering Company, Inc. |
| New Mexico | Albuquerque | Lively Equipment Company |
| Utah | Salt Lake City | Lund Machinery Company |
| Washington | Seattle | Heisen Machinery Company |
| | Casper | Studer Tractor & Equipment Company |
| Wyoming | Cheyenne | Worthing Machinery Company |

KWIK-MIX COMPANY
235 West Grand Avenue
Port Washington, Wisconsin

PRODUCTS: Concrete Mixers; Plaster-Mortar Mixers; Bituminous Mixers; Power Wheelbarrows; Fork Lifts.

FACTORY BRANCH

California Stockton 2200 Country Club Rd. H.C. Powers, Mgr.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Bakersfield | San Joaquin Tractor Co. |
| | Los Angeles | Harron, Rickard & McCone Co. |
| | " | Cost Reduction Equipment Co. |
| | San Francisco | Standard Machinery Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| | " | Plant Equipment Co. |
| Idaho | Boise | Engineering Sales & Service Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| | " | National Equipment Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | American Machine Co. |

LA CROSSE TRAILER CORPORATION
P.O. Box A
La Crosse, Wisconsin

PRODUCTS: Low Bed Heavy-Duty Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | O.S. Stapley Co. |
| | " | State Tractor & Equipment Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " |
| Nevada | Reno | Sanford Tractor & Equipment Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| | " | N.C. Ribble Co. |
| Utah | Salt Lake City | Cate Equipment Co. |
| | " | Lund Machinery Co. |
| | " | Western Machinery Co. |
| Wyoming | Cheyenne | Wilson Equipment & Supply Co. |

LE ROI DIVISION
Westinghouse Air Brake Co.
1706 S. 68th Street
Milwaukee 14, Wisconsin

PRODUCTS: Air Compressors; Tractors; Rock Drills; Paving Breakers; Wagon Drills; Clay Spades; Tamperers; Engines; Transit Mixers; Front End Loaders.

WEST COAST DISTRICT MANAGER

California San Carlos 1564 Laurel St. E.G. Simmons

DISTRICT REPRESENTATIVES

| | | | |
|------------|---------------|-------------------|---------------------|
| California | Los Angeles | Pac. Elec. Bldg. | J.H. Crawford |
| | San Francisco | Matson Bldg. | W.H. Winheim, Repr. |
| Washington | Seattle | Civic Bus. Center | R.E. Marler, Repr. |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Bakersfield | Crook Company |
| | Berkeley | Central Equipment Co. |
| | Los Angeles | Crook Company |
| | San Francisco | Rix Company |
| Colorado | Denver | Denver Machine Shop |
| | Grand Junction | S & M Supply Co., Inc. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| | Idaho Falls | Southern Idaho Equipment Co. |
| | Twin Falls | " |
| | Wallace | Bres Mining Equipment Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kellsell | Treasure State Equipment Co. |
| | Missoula | " |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | P.L. Crooks & Co., Inc. |
| Washington | Seattle | Nelson Equipment Co. |
| | Spokane | Blackwell-Coleman Equipment Co., Inc. |
| Wyoming | Casper | Gehring Equipment & Supply Co. |

LESCHEN WIRE ROPE DIVISION
H.K. Porter Company, Inc.
2727 Hamilton Avenue
St. Louis 12, Missouri

PRODUCTS: Wire Rope and Wire Rope Slings.

WESTERN OFFICES AND WAREHOUSES

| | | |
|------------|---------------|----------------------|
| California | Los Angeles | 2871 East Pico Blvd. |
| | San Francisco | 520 4th Street |
| Colorado | Denver | 1554 Wazee Street |
| Oregon | Portland | 914 NW 14th Avenue |
| Washington | Seattle | 2904 6th Ave., So. |

DISTRIBUTORS

| | | |
|------------|-----------------------|----------------------------------|
| Arizona | Phoenix | Pratt-Gilbert Hardware Co. |
| | Yuma | Braden Machinery Co. |
| California | Arcata | Loppers Hill Supply |
| | Bakersfield | Bail & Black Supply Co. |
| | Blythe | Honnen Machinery Co. |
| | Crescent City | Pacific Engine & Machine Works |
| | Dixon | Weaver Tractor Co. |
| | Fresno | Allied Equipment Co. |
| | Grass Valley | Steele Supply Co. |
| | Los Angeles | Bail & Black Supply Co. |
| | " | Garlinghouse Bros. |
| | Napa | Berglund Tractor & Equipment Co. |
| | Oakland | Viking Supply Co. |
| | Onward | Wallace Machinery Co. |
| | Paso Robles | J.M. Wildman, Inc. |
| | Redding | Sullivan & Crowe Equipment Co. |
| | Rio Vista | Weaver Tractor Co. |
| | Sacramento | " |
| | Salinas | Seaboard Equipment & Supply Co. |
| | " | Farmers Mercantile Co. |
| | San Francisco | Coast Equipment Co. |
| | Santa Rosa | Berglund Tractor & Equipment Co. |
| | Stockton | Hickinbotham Bros. |
| | Willits | Berglund Tractor & Equipment Co. |
| Colorado | Blackfoot | Mountain States Implement Co. |
| | Denver | Farris-Moritz Equipment Co. |
| | " | M.L. Foss, Inc. |
| | Pueblo | Holmes Hardware Co. |
| | " | S.W. Pressey & Son |
| | Gate City Steel, Inc. | Mountain States Implement Co. |
| Idaho | Boise | " |
| | Buhl | " |
| | Idaho Falls | " |
| | Preston | " |
| | Pocatello | Flaherty Equipment Co. |
| | Rexburg | Mountain States Implement Co. |
| | Rupert | " |
| | Selmon | Havemann Hardware Co. |
| Montana | Billings | Selitz Machinery Co. |
| | " | Westgate Machinery Co. |
| | Great Falls | Selitz Machinery Co. |
| | Miles City | Tractor & Equipment Co. |
| | Shelley | Mountain States Implement Co. |
| | Sidney | Tractor & Equipment Co. |
| | Twin Falls | Mountain States Implement Co. |
| | Reno | Sierra Machinery Co. |
| Nevada | Asiaria | Alfred Pustl & Co. |
| | Corvallis | Corvallis Hardware |
| Oregon | Cottage Grove | Diston Equipment Co. |
| | Independence | Independence Iron Works |
| | Portland | Hercules Cable & Supply Co. |

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

Continued on next page

LESCHEN WIRE ROPE DIVISION (CONTINUED)

| | | |
|------------|----------------|----------------------------------|
| Utah | Ogden | Mountain States Implement Co. |
| | Salt Lake City | Industrial Supply Co., Inc. |
| Washington | Tremonton | Mountain States Implement Co. |
| | Aberdeen | Goldstein & Block |
| | Auburn | Baer Steel Products, Inc. |
| | Bellingham | Powder Sales & Equipment Co. |
| | Seattle | Clyde Equipment Co. |
| | " | Seattle Ship Supply, Inc. |
| | " | Washington Iron Works |
| | " | Yukon Equipment Co. |
| Spokane | | North-Alwater Co. |
| Tacoma | | Service Hardware & Implement Co. |

LE TOURNEAU-WESTINGHOUSE COMPANY 2301 North Adams Street Peoria, Illinois

PRODUCTS: Abrasive Blades (Scraper and Dozer); Angle Dozers; Bulldozers; Bulldozer Blades; Cranes; Hoists; Logging Arches; Power Control Units; Prime Movers (Two-Wheeled and Four-Wheeled Rubber-Tired Tractors); Rippers; Scrapers; Sheepfoot Rollers; Snow Plows; Soil Compaction Units; Tractors (Rubber-Tired); Trailers (Flat Bed); Wire Rope.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Superior Equipment Co., Inc. |
| California | Bakersfield | Crook Company |
| | Los Angeles | " |
| Colorado | Denver | Liberty Trucks & Parts Co., Inc. |
| Idaho | Boise | Western Equipment Co. |
| | Pocatello | Rocky Mountain Machinery Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " |
| Nevada | Reno | Pioneer Equipment Co. of Nevada |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | " |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Modern Machinery Co., Inc. |
| | Spokane | " |

THE LINCOLN ELECTRIC COMPANY 22801 St. Clair Avenue Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|----------------|
| California | Emeryville | Manager | C.L. Stocker |
| | Los Angeles | " | J.B. McCormick |
| Oregon | Portland | " | E.H. Weil |
| Washington | Seattle | " | R.L. Wilcox |

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Colorado | Denver | Johnson Supply Co. |
| Montana | Billings | Great Northern Tool & Supply Co. |
| New Mexico | Albuquerque | Big Three Welding Equipment Co. |
| Utah | Salt Lake City | Industrial Supply Co. |

LINK-BELT SPEEDER CORPORATION 1201 Sixth Street, S.W. Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Trench Hoes; Draglines; Crawler, Truck, Wheel-Mounted; Gasoline, Diesel or Electric Power.

DISTRICT SALES REPRESENTATIVES

| | | | |
|------------|------------|-------------------|-------------|
| California | San Marino | 9464 Sherwood Rd. | R.G. Robey |
| | Santa Ana | 1531 W. 12th St. | K.G. Snider |
| Oregon | Beaverton | 985 NW Millcreek | W.B. Severe |
| | Portland | 3121 SW 10th Ave. | N.V. Chehak |

DISTRIBUTORS

| | | |
|------------|---------------------|-------------------------------------|
| Alaska | Anchorage | Craig Taylor Equipment & Supply Co. |
| Arizona | Phoenix | Equipment Sales Co. |
| California | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Essick Machinery Co. |
| | Oakland | Edward R. Bacon Co. |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| | Stockton | " " " " |
| | Ukiah | " " " " |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | " |
| Nevada | Elko | A-D Machinery Co. |
| New Mexico | Albuquerque | N.C. Ribble Co. |
| Oregon | Portland | Nelson Equipment Co. |
| | Wheeler-Kershaw Co. | |
| Utah | Salt Lake City | Totem Equipment Co. |
| Washington | Seattle | Western Machinery Co. |
| | Spokane | " |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

LIPPMANN ENGINEERING WORKS 4603 W. Mitchell Street Milwaukee 14, Wisconsin

PRODUCTS: Crushing, Screening and Conveying Machinery.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Casey-Metcalf Machinery Co. |
| Colorado | Denver | Woodriff Bros. |
| Idaho | Idaho Falls | Southern Idaho Equipment Co. |
| Oregon | Eugene | Loggers & Contractors Machinery Co. |
| | Portland | " |
| Utah | Salt Lake City | Helmer Equipment & Supply Co. |
| Washington | Seattle | Hulse Machinery Co., Inc. |

LITTLEFORD BROS., INC. 450 East Pearl Street Cincinnati, Ohio

PRODUCTS: Bituminous Distributors; Kwik-Steam Generators; Supply Tanks; Utility Spray Tanks; Tar and Asphalt Kettles; Road Rollers; Road Brooms; Tanker Steam Heaters; Asphalt Tools and Pots.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | Feenoughy Machinery Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Portland | Feenoughy Machinery Co. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Seattle | Feenoughy Machinery Co. |
| | Spokane | " |
| Wyoming | Cheyenne | Wortham Machinery Co. |

LITTLE GIANT CRANE & SHOVEL, INC. E. 16th & Howard Drive Des Moines, Iowa

PRODUCTS: Shovels; Cranes; Clamshells; Draglines; Trenches; Pile Drivers; Lost Drivers; Crawler, Truck, mounted and Swamper and rail propulsion mounted; Gasoline, Diesel or Electric Power.

DISTRIBUTORS

| | | |
|------------|-------------|------------------------------------|
| Colorado | Denver | Fairis-Moritz Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | Western Machinery Co. |

LOS ANGELES STEEL CASTING CO. 6100 So. Boyle Avenue Los Angeles 58, California

PRODUCTS: Tamprite Tamper Shanks and Tips; Ripz Reversible Rippers.

MACK MOTOR TRUCK CORPORATION Western Division Headquarters 2001 South Alameda Street Los Angeles 58, California

PRODUCTS: Motor Trucks; Buses and Fire Apparatus.

FACTORY BRANCH MANAGERS

| | | | |
|------------|----------------|---------------------|---------------|
| California | Los Angeles | 2001 S. Alameda St. | C.E. Cole |
| | San Francisco | 1745 Folsom St. | J.E. Donovan |
| Colorado | Denver | 4850 Vasquez Blvd. | E.R. Robinson |
| Oregon | Portland | 1122 N. Williams Av | J.D. Young |
| Utah | Salt Lake City | 704 S. Third West | S.V. Trent |
| Washington | Seattle | 3707 Airport Way | E.A. May |

DIVISION MANAGERS

| | | | |
|------------|-------------|---------------------|----------------------------|
| California | Los Angeles | 2001 S. Alameda St. | J.C. Rowold, V.P. |
| | " | " | L.F. Lindstrom, Asst. D.M. |

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Alaska | Anchorage | Northern Commercial Co. |
| Arizona | Phoenix | Arizona Truck Service & Sales |
| | Tucson | Graves & Reed |
| California | Bakersfield | California Truck & Ind. Equip. Co. |
| | Blythe | Leo's Truck & Diesel Service |
| | Colm | Ferretti Bros. |
| | El Centro | McKays Specialized Brake Service |
| | Fresno | Reliable Automotive Co. |
| | Napa | Napa-Solano Mack Sales & Service |
| | Oakland | Howard B. Fredericks Co. |
| | Oroville | K & S Equipment Co., Inc. |
| | Palm Springs | Harold Smith Garage |
| | Sacramento | W.V. Morgan Co., A Corporation |
| | San Bernardino | Valley Parts & Equipment Co. |
| | San Jose | Morgans |

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

MACK MOTOR TRUCK CORPORATION (CONTINUED)

| | | |
|------------|-----------------|-------------------------------------|
| | San Luis Obispo | Farmer's Hardware & Equipment Co. |
| | Santa Ana | Ed Thompson Garage |
| | Stockton | Roessler Truck Sales |
| | Veneta | Fleet Maintenance, Inc. |
| Colorado | Cortez | Cortez Diesel Sales |
| | Durango | La Plata Repair Shop |
| | Grand Junction | Grand Junction Mack Sales & Service |
| | Pueblo | Mutual Machinery Co. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | " " |
| | Lewiston | Idaho Cletrac Sales Co. |
| | Twin Falls | Wyllies Truck Sales |
| Montana | Billings | Billings Mack Sales & Service, Inc. |
| | Butte | Roberts Truck & Parts Co. |
| | Great Falls | Rice Transport Sales & Service |
| | Kalispell | Kalispell Mack Sales |
| | Missoula | Brian Motor Co. |
| Nevada | Las Vegas | The Motor Equipment Co. |
| | Reno | Jenkins & Albright |
| | Winnemucca | Sonoma Motors, Inc. |
| Oregon | Eugene | Pittchford Mack Sales Co. |
| | Laakeview | Ted DeFord |
| | Medford | Jerry Olson Mack Sales |
| | Ontario | Mutch Oil Company |
| | Pilot Rock | Mathews Motor Service |
| | Redmond | Mid-States Truck & Tractor |
| Utah | Cedar City | Cox Motor Co. |
| | Logan | Dean C. Pack Motor Co., Inc. |
| | Moab | Moab Garage Co. |
| | Ogden | Revsion Garage Co. |
| | Provo | Central Utah Motor Co. |
| | Tooele | E.L. Gillespie's Excel Service |
| Washington | Bellingham | Ernest Walken |
| | Chehalis | Mathis Motors |
| | Concrete | Concrete Automotive |
| | Port Angeles | Prlest Logging & Equipment Co. |
| | Spokane | Spokane Distributors |
| | Wenatchee | Mid-State Equipment Co. |
| | Woodland | Tri-County Mack Sales & Service |
| Wyoming | Yakima | Tire Sales & Equipment |
| | Casper | E.G. Drazick, Inc. |
| | Cheyenne | O'Dell Motor Co. |

MACOMYTE COMPANY
2909 14th Avenue
Kenosha, Wisconsin

PRODUCTS: Wire Rope; Wire Rope Slings and Wire Rope Assemblies.

WESTERN OFFICES

| | | | |
|------------|---------------|---------------------|---------------|
| California | Los Angeles | 2035 Sacramento St. | PH: TR 8383 |
| | San Francisco | 141 King St. | PH: EX 2-4956 |
| Oregon | Portland | 1603 NW 14th Ave. | PH: BR 1661 |
| Washington | Seattle | 87 Holgate St. | PH: MA 1715 |

MADSEN IRON WORKS, INC.
14120 E. Rosecrans Avenue
La Mirada, California

PRODUCTS: Asphalt Paving Plants; Rock and Sand Drives; Pug Mill Mixers; Cyclone Dust Collectors; Madsen Road Pug (Travel-Mix Plant); Johnson Float Finisher (Cement Finishing); Royal Crown Pump Valves.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | La Mirada | Madsen Iron Works, Inc. |
| | Oakland | C.H. Grant Company |
| Colorado | Denver | McCoy Company |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Sellz Machinery Co. |
| | Kalispell | Treasure State Equipment Co. |
| | (Oakland) | C.H. Grant Company |
| Nevada | (Salt Lake) | Fouler Equipment Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | Fouler Equipment Co. |
| Washington | Portland | Cramer Machinery Co. |
| Wyoming | Casper | Sluder Tractor & Equipment Co. |

MAGINNIS POWER TOOL COMPANY
154 Distl Avenue
Mansfield, Ohio

PRODUCTS: Hi-Electric (180 Cycle) Concrete Vibrators and Generators. Side Form & Paving Vibrators.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Electric Tool & Supply Co. |
| | Oakland | Edward R. Bacon Co. |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| | Stockton | " " " " |
| Colorado | Denver | Western Machinery Co. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | " " " " |
| Oregon | Portland | Casey Tractor & Equipment Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Universal Equipment Co. |
| | Spokane | Construction Equipment Co. |

MALL TOOL COMPANY
7740 South Chicago Avenue
Chicago 19, Illinois

PRODUCTS: Chain Saws; Earth Augers; Concrete Vibrators, Surfacers & Finishers; Troweling Machines; Flexible Shafts; Generators; Grinders; Circular Hand Saws; Sump Pumps; Portable Electric & Pneumatic Drills.

FACTORY SALES PERSONNEL

| | | | |
|------------|-------------|-------------------|------------------|
| California | Berkeley | Joseph Link | Regional Manager |
| | Glendora | Laurence Simelius | Sales |
| | Los Angeles | Richard Romandy | " |
| Colorado | Denver | Harold E. O'H | " |
| Oregon | Portland | Wilbur E. Fish | " |
| Washington | Seattle | Robert Speer | Manager |
| | Spokane | Myrtle E. Bean | Sales |

MALSBAR Y MANUFACTURING CO.
845 - 92nd Avenue
Oakland 3, California

PRODUCTS: Steam Cleaners; Water Heaters; Steam Generators.

FACTORY REPRESENTATIVES

| | | | |
|------------|-------------|-------------------|----------------|
| California | Los Angeles | 3023 W. 6th St. | Don E. Noritz |
| Colorado | Denver | 171 S. Holly St. | John Larsen |
| Washington | Seattle | 6057 35th Ave. NE | H.T. Steinheim |

DISTRICT OFFICES

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Bakersfield | Delfells |
| | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Smith-Booth-Usher Co. |
| | " | Duncan-Hunter Equipment Co. |
| | " | Turco Products, Inc. |
| | San Francisco | Edward R. Bacon Co. |
| Idaho | Boise | Engineering Sales & Service Co. |
| Montana | Kalispell | Treasure State Equipment Co. |
| | Great Falls | Hines Motor Supply Co. |
| Nevada | Reno | Gardner Automotive Parts |
| New Mexico | Albuquerque | Contractors' Equipment & Supply Co. |
| Oregon | Portland | Hallidie Machinery Co. |
| Utah | Salt Lake City | Robert Taylor & Sons |
| Washington | Seattle | Hallidie Machinery Co. |
| | Spokane | Modern Machinery Co. |
| Wyoming | Casper | Wyoming Automotive Co. |

MANITOWOC ENGINEERING CORP.
South 16th Street
Manitowoc, Wisconsin

PRODUCTS: Cranes; Draglines; Shovels.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | O.S. Stapley Co. |
| California | Los Angeles | Cassey-Metcalfe Machinery Co., Inc. |
| | Richmond | Bay Equipment Co. |
| Colorado | Denver | King & East Machinery Corp. |
| Montana | Helena | Steffeck Equipment Co. |
| Oregon | Portland | C.H. Bell Equipment Co. |
| Utah | Salt Lake City | Fouler Equipment Co. |

THE MARION METAL PRODUCTS CO.
Cheney Avenue
Merion, Ohio

PRODUCTS: Dump Bodies; Dump Trailers; Lift Gates and Refuse Collection Units.

DISTRIBUTORS

| | | |
|------------|-------------|---------------------------------------|
| Arizona | Tucson | Bogard GMC Co. |
| California | Fresno | Ruckstell California Sales Co. |
| | Los Angeles | Truck Bodies Co. |
| | Oakland | Ruckstell California Sales Co. |
| Colorado | Denver | Woebber Auto Body & Manufacturing Co. |
| Montana | Great Falls | Johnson Distributing Co. |
| New Mexico | Albuquerque | M & F Equipment Co. |
| Oregon | Portland | Pacific Body Builders, Inc. |
| Washington | Spokane | Alloy Manufacturing Co. |

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole western region
- Western contractors are regional operators—many work on projects only where in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

MARTON-OSGOOD-GENERAL
 Marion
 Ohio

PRODUCTS: Power Cranes, Shovels, Draglines, Clamshells, Backhoes, Magnet Cranes, Pile Drivers, Skimmers. From $\frac{3}{4}$ to 60 cubic yard capacity; from 10 to 60 ton lifting capacity; Mounted on Crawlers, Trucks or Rubber Tired as the Self-Propelled, One-man operated MOBILCRANE.

FACTORY BRANCHES

| | | | |
|------------|---------------|-------------------|----------------------|
| Arizona | Phoenix | 1017 N. 22nd Ave. | Ernest J. Rings, Jr. |
| California | San Francisco | 326 Shaw Road | W. Dean Galland |
| Oregon | Portland | 3133 NE 87th Pl. | Wm. F. Lanlus |
| | " | 3930 SW Martins | Don R. Williams |

SERVICE REPRESENTATIVES

| | | | |
|------------|-----------|--------------------|-------------------|
| California | San Mateo | 36th Ave. West | Fred Holverstott |
| Oregon | Portland | 9035 N. Clarendon | Norman S. Holcomb |
| | " | 3015 NE 108th Ave. | John V. Bernhardt |

DISTRIBUTORS-MARTON

| | | |
|------------|-------------|-----------------------|
| California | Oakland | Buran Equipment Co. |
| | Santa Clara | " |
| Idaho | Boise | Burt Equipment Co. |
| New Mexico | Albuquerque | M & F Equipment Co. |
| Oregon | Eugene | Western Equipment Co. |
| | Medford | Hauptert Tractor Co. |
| | Portland | Western Equipment Co. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " |

DISTRIBUTORS-OSGOOD-GENERAL

| | | |
|------------|-------------|--------------------------|
| California | Los Angeles | Calaver Corporation |
| | Oakland | Buran Equipment Co. |
| | Santa Clara | " |
| New Mexico | Albuquerque | New Mexico Equipment Co. |
| Oregon | Eugene | Western Equipment Co. |
| | Medford | Hauptert Tractor Co. |
| | Portland | Western Equipment Co. |
| Washington | Seattle | Star Machinery Co. |

MARLOW PUMPS
 512 Greenwood Avenue
 Ridgewood, New Jersey

PRODUCTS: Self Priming Centrifugal, Diaphragm and Plunger Pumps.

DISTRICT MANAGERS

| | | | |
|------------|--------------|-------------------|--------------------|
| California | Burbank | 223 S. Beachwood | Wm. M. Coopman |
| | E. Palo Alto | 2867 Illinois St. | W. E. Galland, Jr. |
| Oregon | Portland | 1908 NE 67th Ave. | W. T. R. Saari |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Bakersfield | Crooks Company |
| | Los Angeles | Dinsmore Equipment Co. |
| | San Diego | Hudson Corp. |
| | Monrovia | Geo. M. Philpott Co. |
| | Oakland | " " " " |
| | Sacramento | " " " " |
| | San Francisco | " " " " |
| Colorado | Denver | A. J. Philpott Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | " " " " |
| Oregon | Coos Bay | Coos Bay Supply |
| | Portland | Clyde Equipment Co. |
| | " | George M. Philpott Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Jack Sahberg Equipment Co. |
| | " | Star Machinery Co. |

MARMON-HERRINGTON COMPANY, INC.
 1511 W. Washington Street
 Indianapolis 7, Indiana

PRODUCTS: Trucks: Heavy Duty All-Wheel Drive; Ford Trucks re-manufactured to All-Wheel-Drive Trucks.

DISTRICT MANAGER

| | | | |
|------------|---------|----------------|------------|
| California | Oakland | 266 Lenos Ave. | Paul Bliss |
|------------|---------|----------------|------------|

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------|
| Arizona | Phoenix | Ray Korte |
| California | Los Angeles | Crook Company |
| | San Francisco | Western Traction Co. |
| Colorado | Denver | The Winter-Weiss Co. |
| Idaho | Boise | Starline Equipment Co. |
| Montana | Billings | Midland Implement Co. |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | A & A Supply |
| | Farmington | Farmington Motor Co. |
| Oregon | Portland | Edward L. Kropp Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Cole Commercial Co., Inc. |
| Wyoming | Casper | Natrona Supply Co. |

MARTIN IRON WORKS, LTD.
 1222 East 28th Street
 P.O. Box 2857, Terminal Annex
 Los Angeles, California

PRODUCTS: Valves and Gatevalves; Portable Hydrants for Irrigation and commercial uses; Concrete Pipe Making Machines.

DISTRIBUTORS

| | | |
|------------|-------------|----------------------------|
| Arizona | Phoenix | Hooper Concrete Pipe Co. |
| California | Delano | Gibson Concrete Pipe Co. |
| Colorado | Greeley | Oliver Well Works |
| Idaho | Nampa | Idaho Concrete Pipe Co. |
| Montana | Great Falls | Montana Concrete Pipe Co. |
| New Mexico | Boswell | J. P. White Co. |
| Oregon | Medford | Medford Construction Co. |
| Texas | Lubbock | Gifford-Hill-Western, Inc. |
| Utah | Ogden | W. R. White Co. |
| Washington | Spokane | Spokane Concrete Pipe Co. |

MARTIN MACHINE COMPANY
 816 North East Street
 Kewanee, Illinois

PRODUCTS: Heavy Duty Equipment Trailers.

Your "CATERPILLAR" Dealer is your MARTIN Dealer.

MARVEL EQUIPMENT CORPORATION
 215 Eagle Street
 Brooklyn 22, New York

PRODUCTS: Concrete Vibrators, Grinders, Saw-Bigs and Generator Sets.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| California | Pasadena | J. E. Haddock, Ltd. |
| Colorado | Denver | McKelvy Machinery Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Brunner & Lay Corp. |
| Utah | Salt Lake City | Heiner Equipment Co. |
| Washington | Spokane | Fred M. Viles Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

MASTER VIBRATOR COMPANY
 108 Davis Avenue
 Dayton 1, Ohio

PRODUCTS: Generator Plants; Vibratory Screeds; Concrete Vibrators; Tampers; Hammers - Electric; Turn-A-Trowels and Space Heaters.

REGIONAL MANAGER

| | | | |
|------------|-------------|-----------------------|------------|
| California | Los Angeles | 2056 W. Century Blvd. | F. J. Fial |
|------------|-------------|-----------------------|------------|

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Inglewood | C. P. Concrete Equipment Co. |
| | Oakland | " |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | " |
| Montana | Billings | Western Construction Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | New Mexico Equipment Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Totem Equipment Co. |
| | Spokane | Andrews Equipment Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

MATERIALS HANDLING, INC.
 4985 Fyler Avenue
 St. Louis, Missouri

PRODUCTS: Material Handling Equipment; Batchers; Indicators; Bins; Conveyors; Gates; Storage Bins; Water Meters and Bulk Cement Plants.

THE MAXI CORPORATION
 P.O. Box 3129 Terminal Annex
 1584 East 20th Street
 Los Angeles 54, California

PRODUCTS: Maxi Crane Carriers; Maxi Six-Wheel Truck Units.

FACTORY BRANCH

| | | | |
|------------|-------------|---------|----------------|
| California | Los Angeles | Manager | J. Ray Elliott |
|------------|-------------|---------|----------------|

DISTRIBUTORS

Contact local Crane & Shovel Dealer for Maxi Crane Carrier Information.

**C. I. T. finances installment sales
of equipment for many Distributors**

MAXON CONSTRUCTION CO., INC.
Manufacturing Division
131 N. Ludlow Street
Dayton 2, Ohio

PRODUCTS: Concrete Hauler.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Equipment Co. |
| California | Los Angeles | Garlinghouse Bros. |
| | San Francisco | Standard Machinery Co. |
| Idaho | Boise | Columbia Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | C.H. Jones Equipment Co. |
| Washington | Seattle | Columbia Equipment Co. |

M-B CORPORATION
New Holstein
Wisconsin

PRODUCTS: Power Brooms; Power Maintainers; Trailers; Street, Airport, Highway and Warehouse Markers; Garbage Collection Bods; Regular and Reflective Highway and Sign Paints.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | El Monte | Bronson Equipment Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Liberty Trucks & Parts Corp. |
| | " | Temple Bros., Inc. |
| Idaho | Boise | Sawtooth Company |
| Montana | Billings | Industrial Equipment Co. |
| Nevada | Las Vegas | Clark County White, Merc. Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | " |
| | Spokane | " |
| Wyoming | Cheyenne | Jack Sahlberg Equipment Co. |
| | | Kereml Tractor & Equipment Co. |

McCAFFREY-RUDDOCK TAGLINE CORP.
2131 East 25th Street
Los Angeles 58, California

PRODUCTS: Rud-O-Matic Taglines; Magnet Reels; Rud-O-Matic Thomas Boomstaps; Rud-O-Matic Hose Reels.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Bertram Electric Co. |
| | " | Equipment Sales Co. |
| | " | E.D. Flournoy Co. |
| California | Berkeley | Shriver Machinery Co. |
| | Culver City | Oven Bucket Co., Ltd. |
| | Los Angeles | W.L. Shrader Co. |
| | " | Brown-Bevis Industrial Equipment Co. |
| | " | Crook Co. |
| | " | M.P. McCaffrey, Inc. |
| | " | Shaw Sales & Service Co. |
| | " | Shepherd Tractor & Equipment Co. |
| | " | Smith-Booth-Usher Co. |
| | Wilmington | Southern California Equipment Co. |
| Colorado | Denver | Hendricks Equipment Co. |
| | " | Constructors Equipment Co. |
| | " | Ray Corson Machinery Co. |
| | " | Farris-Mortitz Equipment Co. |
| | " | H.W. Moore Equipment Co. |
| | " | "Quick-Way" Truck Shovel Co. |
| Idaho | Boise | Feenoughly Machinery Co. |
| | " | Western Equipment Co. |
| | Idaho Falls | Arnold Machinery Co. |
| | " | Western Equipment Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | Normont Equipment Co. |
| | Missoula | Westmont Tractor & Equipment |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply |
| | " | E.D. Flournoy Co. |
| Oregon | Eugene | Western Equipment Co. |
| | Medford | Cal-Ore Machinery Co. |
| | Portland | Balzer Machinery Co. |
| | " | Clvde Equipment Co. |
| | " | P.L. Crooks Co. |
| | " | Feenoughly Machinery Co. |
| | " | Western Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co., Inc. |
| | " | Foulger Equipment Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | " | Feenoughly Machinery Co. |
| | " | Star Machinery Co. |
| | Spokane | Feenoughly Machinery Co. |
| | " | General Machinery Co. |
| | " | Modern Machinery Co., Inc. |
| | Tacoma | A.H. Cox & Co. |
| | Wenatchee | " |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

WESTERN CONSTRUCTION COVERS ALL
OF THE WEST'S BIG AND GROWING CONSTRUCTION
MARKET

M. P. McCaffrey, Inc.
2121 East 25th Street
Los Angeles 58, California

PRODUCTS: Clamshell Buckets; Dragline Buckets; Crane Booms; Back Hoe Attachments; Sheaves and Sheave Blocks; Rock Tongs; Sheepfoot Tamper.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Richmond | Lee Redman Equipment Co. |
| | San Francisco | Bav Equipment Co. |
| | " | Edward R. Bacon Co. |
| | " | Coast Equipment Co. |
| | " | Standard Machinery Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors' Equipment & Supply Co. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |

McCulloch Motors Corporation
6101 W. Century Blvd.
Los Angeles 45, California

PRODUCTS: Chain Saws; Earth Drills; Fire Pumps (Gasoline Driven)

DISTRIBUTORS

| | | |
|------------|---------------|-------------------------------------|
| Arizona | Phoenix | Waukesha Southwestern |
| California | Eureka | Riley Logging Supply Co. |
| | Los Angeles | Theo. H. Davies & Co., Ltd. |
| | Sacramento | Leavitt Power Tool Co. |
| | San Francisco | Frazier & Hansen, Ltd. |
| | " | Kellogg-Little Co. |
| Colorado | Denver | Tri State Equipment Co. |
| Idaho | Boise | Boise Saw Sales |
| New Mexico | Albuquerque | Gorman Engineering Co. |
| Oregon | Bend | Bend Chain Saw Service, Inc. |
| | Eugene | Foster-McCulloch Co. |
| | Medford | Southern Oregon Equipment Co. |
| | Portland | Northwest Loggers Supply Co. |
| | Roseburg | McCulloch Chain Saw Sales & Service |
| Washington | Seattle | Northern Commercial Co. |
| | " | Pacific Equipment, Inc. |
| | Spokane | Far West Equipment Co. |
| | Yakima | McCulloch-Cascade Co. |

McKIERMAN-TERRY CORP.
15 Park Row
New York 38, New York

PRODUCTS: Pile Hammers; Pile Extractors; Pile Leads; Complete Pile Driving Rigs; Sand Drain Driving Equipment; Steam Generators; Material Handling Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------|
| California | Los Angeles | Garlinghouse Brothers |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Mine & Smelter Supply Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | C.H. Jones Equipment Co. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " |

MEILI-BLUMBERG CORPORATION
1615 Wisconsin Avenue
New Holstein, Wisconsin

PRODUCTS: Power Graders; Power Brooms; Power Maintainers; Trailers; Street, Airport, Highway and Warehouse Markers.

MILLER RESEARCH ENGINEERS
450 South 92nd Street
Milwaukee 14, Wisconsin

PRODUCTS: Miller Tilt Top Trailers for transporting construction machinery up to 10 tons.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| Colorado | Denver | Graham Road Equipment Co. |
| Montana | Billings | Seitz Machinery Co. |
| Nevada | Reno | Nevada Equipment Service |
| Utah | Salt Lake City | Cole Equipment Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

IF YOU WANT TO—

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

MINNEAPOLIS-MOLINE COMPANY
P.O. Box 1050
Minneapolis 1, Minnesota

PRODUCTS: Tractors; Industrial Wheel Type, 30 & 50 HP Engines and Power Units; 27 to 292 HP Gasoline, Diesel, Gas and Distillate.

FACTORY BRANCHES

| | | | |
|------------|----------|---------|---------------|
| California | Stockton | Manager | H.F. Anderson |
| Colorado | Denver | | L.M. Urevig |

INDUSTRIAL DISTRICT SALES MANAGER

| | | | |
|------------|---------------|----------------|--------------------|
| California | San Francisco | 112 Market St. | Robert F. Trissell |
|------------|---------------|----------------|--------------------|

DISTRIBUTORS

| | | |
|------------|---------------|-----------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Cosy-Metcalfe Machinery Co., Inc. |
| | San Francisco | Coast Equipment Co. |
| Colorado | Denver | Gunderson-Taylor Machinery Co. |
| | Pueblo | Mutual Machinery Co. |
| Idaho | Boise | The Sawtooth Co. |
| | " | " |
| Montana | Twin Falls | Central Machinery Co. |
| | Great Falls | Modern Equipment Co. |
| | Kalispell | Tractor & Equipment Co. |
| | Miles City | Missoula Mercantile Co. |
| Missoula | " | " |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | N. Salt Lake | Taylor Machinery Co. |
| Washington | Seattle | Modern Machinery Co., Inc. |
| | Spokane | " |

MIXERMOBILE DISTRIBUTORS, INC.
8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Scoopmobiles; Mixermobiles; Towermobiles; Duo-Way Scoops; Duo-Way Lifts; Stationary Towers; Stationary Mixers; Tractormobiles; Dozermobiles.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | El Monte | Bronson Equipment Co. |
| | Oakland | Mixermobile Sales & Service, Inc. |
| Colorado | Denver | Constructors Equipment Co., Inc. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Missoula | Westmont Tractor & Equipment Co. |
| Nevada | Reno | Mack Truck Sales |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Mixermobile Distributors, Inc. |
| Utah | Salt Lake City | Helmer Equipment & Supply Co. |
| Washington | Seattle | Air-Mac, Inc. of Washington |
| | Spokane | " |

MONARCH ROAD MACHINERY CO.
1331 Michigan Street N.E.
Grand Rapids 6, Michigan

PRODUCTS: Hydraulic Power Control Equipment for Operating Snow Plows; Road Machinery and similar devices; HY-LO-JACK Fan-Belt Driven Models; DYNA-MIGHT Electric Controls for 6 and 12 volt systems powered by truck battery, etc.

MORSE BROS. MACHINERY CO.
2900 Brighton Blvd.
Denver 1, Colorado

PRODUCTS: Sluice Gates; Head Gates; Flap Gates; Jaw Crushers; Ball and Rod Mills; Flotation Machines; Thickeners; Classifiers; Agitators; Vacuum Filters; Diaphragm Pumps.

MORSE-STARRETT PRODUCTS CO.
1204 49th Avenue
Oakland 1, California

PRODUCTS: Wire Rope Cutters; Wire Rope Cutter Parts; Wire Rope Seizing Bands.

DISTRIBUTORS

Most all construction equipment and heavy hardware dealers and distributors' outlets handle the Wire Rope Cutters, Parts and Wire Rope Seizing Bands of our manufacture throughout the United States and Canada.

M-R-S MANUFACTURING CO.
Box 336
Flores, Mississippi

PRODUCTS: Diesel Wheel Tractors; Hauling Units; Bulldozers.

MUNICIPAL SUPPLY COMPANY
2508-18 So. Main
South Bend, Indiana

PRODUCTS: Street Sweepers; Street Flushers; Street Sprinklers; Bituminous Distributors; Bituminous Maintenance Units.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| California | El Monte | Wanock-Bancroft Equipment Co. |
| Colorado | Denver | Liberty Trucks & Parts Co. |
| | " | Constructors Equipment Co. |
| New Mexico | Roswell | Smith Machinery Co. |
| Oregon | Portland | Ted Henry Company |
| Utah | Salt Lake City | The C.H. Jones Equipment Co. |
| Washington | Seattle | Reliance Equipment & Supply Co. |

MURPHY DIESEL COMPANY
5317 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Engines and Power Units, 90 to 246 HP; Generator Sets, 60 to 154 KW; Marine Engines, 90 to 225 HP; Dual Fuel Engines, 135 to 215 HP; and Mech-Elects which will furnish mechanical and electric power simultaneously.

DISTRICT REPRESENTATIVES

| | | | |
|------------|-------------|------------------|------------------|
| California | West Covina | 1215 E. Merced | F. North Jones |
| Washington | Seattle | 2811 W. Crockett | Bradley Bartlett |
| Wyoming | Casper | 1308 So. Melrose | J.L. Jarboe |

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Bakersfield | Glenn Rose Engine Service |
| | Los Angeles | Industrial Engine Service |
| | San Francisco | Oswald Machine Works |
| Colorado | Denver | Power Equipment Co. |
| Idaho | Boise | Engineering Sales Service Co., Inc. |
| Montana | Butte | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Medford | Cal-Ore Machinery Co., Inc. |
| | Portland | Balzer Machinery Co. |
| | " | Western Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co., Inc. |
| Washington | Seattle | Western Tractor & Equipment Co. |
| | Spokane | General Machinery Co. |

L.R. MURPHY SCALE COMPANY
1610 North "C" Street
Sacramento, California

PRODUCTS: Contractors Motor Truck Portable Scales; Motor Truck Pit Type Scales; Hopper Scales; Built-In & Livestock Scales; Special Scale Equipment.

DISTRIBUTORS

Sold by machinery and equipment dealers throughout the entire United States.

NATIONAL WELDING EQUIPMENT CO.
218 Fremont Street
San Francisco 5, California

PRODUCTS: Welding and Cutting Torches for All Flame Applications; Single and Two-Stage Regulators; Manifolds, Station Valves and Line Regulators; Special Torches for Heating, Multi-Flames, including Water-Cooled Equipment; Flowmeters for Rare Gases; Adapters and Fittings for Welding; Medical Regulators, Humidifiers; Flowmeters for Oxygen Therapy.

DISTRIBUTORS

| | | |
|------------|---------------|-----------------------------------|
| Arizona | Phoenix | Dye Oxygen Co., Inc. |
| | Tucson | " |
| | Yuma | " |
| California | Eureka | McGeehan Supply Co. |
| | Fresno | Fresno Oxygen & Welding Suppliers |
| | Hanford | Valley Oxygen Co. |
| | Long Beach | Bowers Ambulance Service |
| | Los Angeles | Angelus Oxygen & Equipment |
| | " | Stuart Oxygen Co. |
| | " | H.C. Witherspoon Co. |
| | Oakland | Heldt Equipment Co. |
| | " | Stuart Oxygen Co. |
| | San Diego | Aeroweld Supply Co. |
| | San Francisco | Stuart Oxygen Co. |
| | San Jose | Pacific Hardware & Steel Co. |
| | Sacramento | California Oxygen Co. |
| Colorado | Denver | Western Oxygen Co. |
| | Pueblo | " |
| Idaho | Boise | Spencer Supply Co. |
| Montana | Billings | Home Oxygen Co. |
| | Great Falls | Mikes Welding Supply Co. |
| Nevada | Reno | Sierra Oxygen Co. |
| New Mexico | Albuquerque | New Mexico Steel |
| | Hobbs | Western Oxygen, Inc. |
| Oregon | Medford | Industrial Air Products Co. |
| | Portland | " |
| | Spokane | " |
| Washington | " | " |
| Wyoming | Worland | Gibson Welding Supplies |
| | " | Worland Oxygen Co. |

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

NOBLE COMPANY
1860 Seventh St.
Oakland 20, California

PRODUCTS: Cement and Aggregate Batching Plants; Bins; Cement Silos; Conveyors; Elevators; Hoppers; Air Ram and Manually Operated Clamshells and Slide Type Bin Gates; Concrete Buckets.

NORTHWEST DISTRICT SALES REPRESENTATIVE

Washington Seattle 518 1st Ave. N. Robert C. Clark

DISTRIBUTORS

California Los Angeles Noble Co.
Oakland " "
Idaho Boise Intermountain Equipment Co.
Oregon Portland Loggers & Contractors Machinery Co.

ALL OTHER WESTERN STATES COVERED BY
NOBLE COMPANY SALES ENGINEERS

NORDBERG MANUFACTURING COMPANY
S. Chase and W. Oklahoma Avenue
Milwaukee 7, Wisconsin

PRODUCTS: "SYMONS" Cone Crushers; "SYMONS" Vibrating Screens; Primary Gyratory Crushers; Gyrodisc Crushers; Grinding Mills; Kilns; Coolers; Slakers; Mine Hoists; Railway Track Maintenance Machinery; Diesel Engines (10 to 10,800 HP); Gasoline Marine Engines.

WESTERN FACTORY BRANCHES

San Francisco Vancouver

DISTRIBUTORS

Idaho Boise Intermountain Equipment Co.
Oregon Portland Howard-Cooper Corporation

NORTHWEST ENGINEERING COMPANY
135 South LaSalle Street
Chicago 3, Illinois

PRODUCTS: Shovels; Cranes; Draglines and Pullshovels - Crawler and Truck Mounted.

FACTORY BRANCHES

California Los Angeles Manager P.G. Rowe
San Francisco " A.G. Crowley
Washington Seattle " J.L. Tallman

DISTRIBUTORS

Arizona Phoenix Superior Equipment Co.
Colorado Denver Power Equipment Co.
Nevada Reno Sierra Machinery Co.
New Mexico Albuquerque Lively Equipment Co.
Oregon Medford Cal-Ore Machinery Co.
Portland Balzer Machinery Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Spokane General Machinery Co.
Wenatchee Mid-State Equipment Co.
Wyoming Cheyenne Kereml Tractor & Equipment Co.

NOVO ENGINE COMPANY
702 Porter Street
Lansing 5, Michigan

PRODUCTS: Engines; Pavement Breakers; Pumps; Hoists; Generator Sets.

**O.K. MACHINERY DIVISION OF
JOHN C. POTTER PRINTING PRESS CO.**
Florence Street
Columbia, Pennsylvania

PRODUCTS: Hoists; Winches; Air Compressors (Portable); Portable Man Positioners; Portable Elevators.

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales Co.
Colorado Denver Ray Corson Machinery Co.

**13,000 WESTERN CONSTRUCTION READERS HAVE
THE AUTHORITY TO BUY OR TO INFLUENCE THE
PURCHASE OF CONSTRUCTION EQUIPMENT AND
SUPPLIES.**

THE OLIVER CORPORATION
400 West Madison Street
Chicago 6, Illinois

PRODUCTS: Crawler & Wheel Tractors (Gas & Diesel) with Allied Equipment.

WESTERN DIVISION MANAGER

California Oakland 1066 47th Ave. Sam W. White, Jr.

FACTORY BRANCHES

California Los Angeles 4330 District Blvd H.W. DeMent, Mgr.
Oakland 1066 47th Ave. G.M. Blow, Mgr.
Oregon Portland 130 SE Morrison H.E. Noess, Mgr.

DISTRIBUTORS

Arizona Phoenix Arizona Equipment Sales, Inc.
California Bakersfield Motor Truck Sales & Service
Chico Cal-Bulte Tractor Co.
Colton Condosta Tractor Co.
Colton Tractor Specialties
Escondido Willis Tractor & Equipment Co.
Eureka Gustafson Tractor Co.
Fresno Jim Ingle Co.
Merced Polzine Farm Equipment Co.
Napa Warner-Ritz Tractor & Equipment Co.
Redding Lowry Equipment Co., Inc.
Sacramento Flood Equipment Co.
Salinas Ashton Implement Co.
San Jose Mechanical Farm Equipment Co.
San Leandro Tractor & Equipment Co.
Stockton H & M Tractor Co.
Ukiah Banzhaf Farm Machinery Co.
Whittier Turner & Chapin, Inc.
Colorado Denver Liberty Truck & Parts Co.
Idaho Boise Eng. Sales Service, Inc.
Idaho Lewiston Idaho Clecac Sales Co.
Montana Billings Western Construction Equipment Co.
Missoula " "
Nevada Reno B & M Tractor & Equipment Co.
New Mexico Albuquerque N.C. Ribble Co.
Oregon Eugene Loggers & Contractors Machy. Co.
Portland " "
Utah Salt Lake City Arnold Machinery Co., Inc.
Washington Seattle Pacific Hots! & Derrick Co.
Spokane Inland Diesel Machinery Co.
Walla Walla Melcher-Ray Machinery Co.
Wenatchee Central Tractor & Equipment

D.W. CUNAN & SONS, INC.
University Ave. SE at 25th
Minneapolis 14, Minnesota

PRODUCTS: Electric Generating Plants; Gasoline & Diesel; Gasoline Engines; Separate Generators.

ZONE MANAGERS

California Palo Alto 1588 Edgewood Drive Frank Gernand
Colorado Denver 2800 Tennyson St. Les Lelande

DISTRIBUTORS

Arizona Nogales Commercial Distributors
California Phoenix Equipment Sales Co.
Monterey Ets Hokin & Galvan
Oakland " "
San Diego " "
San Francisco " "
Stockton " "
Wilmington " "
Colorado Denver National Light & Pump Co.
Montana Billings Great Northern Tool & Supply Co.
Culbuck " "
Kevin " "
Missoula Miller Machinery Co.
New Mexico Albuquerque Harry Cornelius Co., Inc.
Oregon Portland Sparks-Willis, Inc.
Utah Salt Lake City Motor Mercantile Co.
Washington Seattle Fremont Electric Co.
Wyoming Casper Power Service, Inc.

OSHKOSH MOTOR TRUCK, INC.
2300 Oregon Street
Oshkosh, Wisconsin

PRODUCTS: 4 and 6 Wheel Drive Trucks used in Snow Removal and On and Off-Highway Hauling. Range from 22,000 pounds to 95,000 pounds gross vehicle weight.

DISTRIBUTORS

Arizona (Los Angeles) Phillips Equipment Co.
California Los Angeles " "
Sacramento Diamond T. Motor Truck Co. of Sacramento
Denver Yekeloff Truck Sales
Idaho Boise " "
Montana Billings Western Construction Equipment Co.
Nevada Reno Jenkins & Albright
New Mexico Albuquerque Harry Cornelius Co.
Oregon Portland Contractors Equipment Co.
Utah Salt Lake City Arnold Machinery Co.
Washington Seattle Totem Equipment Co.
Wyoming Cheyenne Kereml Tractor & Equipment Co.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

OVERSTROM & SONS
2213 West Mission Road
Alhambra, California

PRODUCTS: Vibrating Screens.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------|
| Montana | Missoula | Miller Machinery Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | Lund Machinery Company |
| Washington | Seattle | Washington Machinery Co. |

OWEN BUCKET COMPANY
59 and Breakwater
Cleveland, Ohio

PRODUCTS: Clamshell Buckets and Grapples.

WESTERN FACTORY BRANCH

| | | | |
|------------|----------|---------|-------------|
| California | Berkeley | Manager | E.L. Keizer |
|------------|----------|---------|-------------|

DISTRIBUTORS

| | | |
|------------|-------------|--------------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| | " | State Tractor & Equipment Co. |
| California | Los Angeles | Western Machinery Co. |
| | " | Brown-Bevis Industrial Equipment Co. |
| | " | Electric Steel Foundry Co. |
| | " | Gartlinghouse Bros. |
| Idaho | San Diego | Southern Equipment & Supply Co. |
| Nevada | Boise | Intermountain Equipment Co. |
| Oregon | Reno | Sierra Machinery Co. |
| Washington | Portland | Clyde Equipment Co. |
| | Seattle | A.H. Cox & Co. |
| | Spokane | Intermountain Equipment Co. |

PACIFIC CAR & FOUNDRY CO.
4th and Factory
Renton, Washington

PRODUCTS: Hoists; Winches; Dozers; Loading Arches; Wire Rope Rigging Fittings; Land Clearing Blades; Power Control Units; Ship Repair; Structural Fabrication and Erection of all kinds; Forgings; Castings; Sheet Metal Work; Military Vehicles; Refrigerator Cars; Flat Cars; Industrial Cars; Commercial Galvanizing; Heat Treating; Machining.

FACTORY BRANCHES

| | | | |
|------------|---------|----------------------------|---------------------|
| Washington | Everett | Marine Division | E.A. Black, V.P. |
| | Seattle | Structural Steel Division | Paul Jacobson, V.P. |
| | " | Ship Repair Div. | E.A. Black, V.P. |
| | " | Kenworth Motor Truck Corp. | John Holstrom, V.P. |

BRANCH OFFICE

| | | | |
|--------|----------|---------|-------------|
| Oregon | Portland | Manager | A.W. Rhodes |
|--------|----------|---------|-------------|

DISTRIBUTORS

ALL PRINCIPAL TRACTOR DEALERS IN ALL STATES

PACIFIC PUMPING CO.
9201 San Leandro St.
Oakland 3, California

PRODUCTS: Pumps.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|-------------------|
| California | Los Angeles | Manager | R.H. Franklin |
| Oregon | Portland | " | S.B. Huntington |
| Washington | Seattle | " | Bernard R. Willis |

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Smith Engineering & Equipment Co. |
| Colorado | Denver | Mine & Smelter Supply Co. |
| | " | Waukesha Engine & Equipment Co. |
| New Mexico | Albuquerque | Sabree-Huff Equipment Co. |
| Utah | Salt Lake City | Mine & Smelter Supply Co. |
| | " | National Equipment Co. |

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB—

- Construction needs, problems and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

—AND WESTERN CONSTRUCTION IS ONE PUBLICATION THAT COVERS ALL THE WEST

PACIFIC WIRE ROPE CO.
1840 E. 15th Street
Los Angeles 21, California

PRODUCTS: Wire Rope & Galvanized Strand

FACTORY BRANCHES

| | | | |
|------------|---------------|--------------------|-----------------|
| California | San Francisco | 581 Market Street | John G. Bowen |
| Oregon | Portland | 3615 NW St. Helens | James K. Mosser |

SALES CO-ORDINATOR

| | | | |
|------------|-------------|------------------|-----------|
| California | Los Angeles | 1840 E. 15th St. | N. Graham |
|------------|-------------|------------------|-----------|

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Phoenix | Arizona Equipment Sales |
| | Tucson | AWECO Supply Co. |
| California | Bakersfield | Lamb Wire Line Service |
| | Blythe | Honnen Machinery Co. |
| | El Centro | Faure Tractor Co. |
| | Redding | Paul Droscher Sales |
| | Riverside | Johnson Tractor Co. |
| | Sacramento | James T. Gede Co. |
| | San Diego | San Diego Tractor & Equipment Co. |
| | " | Ducommun Metals & Supply Co. |
| Idaho | Boise | Spencer Supply Co. |
| Nevada | Fallon | Bernie Spencer's Industrial Sales & Serv. |
| New Mexico | Albuquerque | Belzer Machinery Co. |
| Oregon | Portland | Looners Supply Co. |
| | Coos Bay | Flury Supply Co. |
| | Roseburg | The J.T. Holland Co. |
| Utah | Salt Lake City | Collins Machinery Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | Mellivel & Co. |

PAGE ENGINEERING CO.
Clearing Post Office
Chicago 38, Illinois

PRODUCTS: Walking Draglines; "Automatic" Dragline Buckets; Horizontal-Wee Diesel Engines; Chain & Bucket Accessories.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| California | Los Angeles | Bevis Machinery Co. |
| | " | Brown-Bevis Industrial Equipment Co. |
| | " | Smith-Booth-Usher Co. |
| | Richmond | Bay Equipment Co. |
| | San Francisco | Coast Equipment Co. |
| | " | Edward R. Bacon Co. |
| | " | Standard Machinery Co. |
| | Stockton | Moore Equipment Co. |
| | " | Stockton Iron Works |
| Colorado | Denver | Colorado Builders Supply Co. |
| | " | Ray Corson Machinery Co. |
| | " | Farris-Mortitz Supply Co. |
| | " | Liberty Trucks & Parts Co. |
| | " | Mine & Smelter Supply Co. |
| | " | H.W. Moore Equipment Co. |
| | " | McCoy Co. |
| | " | Western Machinery Co. |
| Idaho | Boise | Western Equipment Co. |
| | Idaho Falls | Southern Idaho Equipment Co. |
| Montana | Billings | Western Construction Equipment Co. |
| | " | Industrial Equipment Co. |
| | " | Seltz Machinery Co., Inc. |
| | Butte | Hall-Perry Machinery Co. |
| | Great Falls | Central Machinery Co. |
| | Helena | Steffek Equipment Co. |
| | Missoula | Westmont Tractor & Equipment Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| | " | Harry Cornelius Co. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| | Klamath Falls | Cascade Industrial Supply, Inc. |
| | Portland | Feenoughy Machinery Co. |
| | " | Howard-Cooper Corp. |
| | " | Nelson Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| | " | Western Machinery Co. |
| Washington | Seattle | A.H. Cox & Co. |
| | " | Northern Commercial Co. |
| | " | Star Machinery Co. |
| | " | Yukon Equipment Co. |
| | Spokane | Andrews Equipment Co. |
| | " | Modern Machinery Co. |
| | " | Western Equipment Co. |
| Wyoming | Cheyenne | Wilson Equipment & Supply |
| | " | Worham Machinery Co. |
| | Greybull | Nash-Davis Machinery Co. |

Read WESTERN CONSTRUCTION for—

- The latest job methods and costs in the West
- Up-to-date equipment and supply information
- Job progress news, who's doing what
- News of contractors, distributors, engineers

C. I. T. finances installment sales of equipment for many Distributors

THE PARSONS COMPANY
200 North 8th Ave. East
Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobiles (Ditchers & Trenchers).

FACTORY BRANCH

California Stockton Koehring Co. of Calif. 2200 Country Club Blvd
Manager Harry Powers

DISTRICT REPRESENTATIVE

California Stockton 2003 Rosecrans Way K.R. Chandler

DISTRIBUTORS

| | | |
|------------|----------------------|------------------------------------|
| Arizona | Phoenix | Nell B. McGinnis Co. |
| California | Los Angeles | Harron Rickard & McCone Co. |
| | San Francisco | Standard Machinery Co. |
| | Bakersfield | San Joaquin Tractor Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| Montana | Billings | Western Construction Equipment Co. |
| | Missoula | " " |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Seattle | Pacific Hoist & Derrick Co. |
| | Spokane | American Machine Co. |
| Wyoming | (No) Billings, Mont. | Western Construction Equipment Co. |
| | (So) Denver, Colo. | McKelvy Machinery Co. |

PEERLESS PUMP DIVISION
Food Machinery and Chemical Corp.
301 W. Avenue 26
Los Angeles, California

PRODUCTS: Pumps, all types.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------|----------------|
| Arizona | Phoenix | Manager | H.L. Drew |
| California | Bakersfield | " | Holly Stanford |
| | Fresno | " | C.H. Sorfor |
| New Mexico | Albuquerque | " | M. Cannon |

PERFECTION STEEL BODY CO.
Galion
Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform and Special Purpose Truck Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gales (Hydra-Power); Two Wheel Trailers; Hydraulic Front End Loaders; Wagons; Soil Pulverizers; Snow Plows; Crane and Dozer Attachments for Front End Loaders.

DISTRIBUTORS

Dealers in all Principal Cities

PETERBILT MOTORS CO.
10700 MacArthur Blvd.
Oakland 5, California

PRODUCTS: Heavy Duty Trucks, MacDonald Division: Low Body Trucks; Converter Bodies and Lift Trucks.

FACTORY BRANCH

California San Francisco 757 Folsom St. Mr. Morris, Mgr.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| California | Fresno | Connel Motor Truck Co., Inc. |
| | Los Angeles | Carl N. Frank Truck Sales, Inc. |
| | San Jose | Coast Counties Truck & Equipment Co. |
| Stockton | | Connell Motor Truck Co., Inc. |
| Colorado | Denver | Kaer Truck & Equipment Co. |
| Montana | Billings | Montana Trailer Sales & Equipment Co. |
| New Mexico | Albuquerque | Harlshorn Truck Sales |
| Oregon | Portland | G.R. Stevenson, Inc. |
| Utah | Salt Lake City | Commercial Equipment Co. |
| Washington | Seattle | Northwest Truck Sales, Inc. |
| | Spokane | Inland Diesel & Machinery Co. |

IF YOU WANT TO—

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

PETTIBONE MULLIKEN CORPORATION
4700 W. Division Street
Chicago 51, Illinois

PRODUCTS: Motor Graders; Front End Loaders; Speed Swing Loaders; Yard Cranes; Bucket Conveyor Loaders; Fork and Bucket Loaders; Material Handling Buckets; Clamshell, Dragline, Pullshovel Dippers and Shovel Dippers; Manganese Steel Castings.

FACTORY BRANCH

California N. Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg. Co.

DISTRICT MANAGERS

| | | | |
|------------|--------------|-------------------|----------------|
| California | N. Hollywood | 12147 Huston St. | C.W. Cadarette |
| | Denver | 2800 Newport Ave. | A.A. Ainlay |
| Washington | Seattle | 4975 3rd Ave. So. | N. Anderson |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Los Angeles | Calaver Corp. |
| | Sacramento | Moore Equipment Co., Inc. |
| | San Francisco | FWD Pacific Co. |
| | Stockton | Moore Equipment Co., Inc. |
| Colorado | Denver | Liberty Trucks & Parts Co. |
| Idaho | Boise | Carl R. Burt Equipment Co. |
| | Pocatello | Rocky Mountain Machinery Co. |
| Montana | Helena | Montana Powder & Equipment Co. |
| Nevada | Reno | Moore Equipment Co., Inc. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| | | Leonard Motor Co., Inc. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Modern Machinery Co., Inc. |
| | Spokane | " " |
| Wyoming | Cheyenne | Mountain Equipment Co. |

PETTIBONE NEW YORK CORP.
DIVISION OF PETTIBONE MULLIKEN CORP.
1212 E. Dominick Street
Rome, New York

PRODUCTS: Motor Graders (Speed Graders).

FACTORY BRANCH

California N. Hollywood 8900 Tujunga Ave. Pettibone Wood Mfg.

DISTRICT MANAGERS

| | | | |
|------------|--------------|-------------------|----------------|
| California | N. Hollywood | 12147 Huston St. | C.W. Cadarette |
| Colorado | Denver | 2800 Newport Ave. | A.A. Ainlay |
| Washington | Seattle | 4975 3rd Ave. | N. Anderson |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales Co. |
| California | Los Angeles | Calaver Corp. |
| | San Francisco | FWD Pacific Co. |
| Idaho | Boise | Carl R. Burt Equipment Co. |
| | Pocatello | Rocky Mountain Machinery Co. |
| Montana | Helena | Montana Powder & Equipment Co. |
| New Mexico | Albuquerque | Leonard Motor Co., Inc. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Wyoming | Cheyenne | Mountain Equipment Co. |

PETTIBONE WOOD MFG. CO.
Subsidiary of Pettibone Mulliken Corp.
6900 Tujunga Avenue
North Hollywood, California

PRODUCTS: Roadmixers, Preparizers, and Allied Equipment for Mixed-In-Piece Road Building.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | San Francisco | FWD Pacific Co. |
| | Los Angeles | Pettibone Wood Mfg. Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Gale City Steel |
| Montana | Butte | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | J.D. Coagins Co. |
| Oregon | Portland | P.L. Crooks Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Washington | Seattle | Modern Machinery Co. |
| | Spokane | " " |

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

PIONEER ENGINEERING WORKS, INC.
1515 Central Avenue
Minneapolis 13, Minnesota

PRODUCTS: Feeding, Conveying, Crushing, Screening and Washing Equipment; Bituminous Mixing Plants.

DISTRICT SALES REPRESENTATIVE

Oregon Portland 2145 NE Hancock Wm.H. Schanep

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Equipment Co. |
| California | Los Angeles | Harron, Rickard & McCone Co. |
| | Oakland | George M. Philpott Co. |
| | Sacramento | " " " |
| | San Francisco | " " " |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Feenaghty Machinery Co. |
| | Idaho Falls | Parkinson Tractor Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kalispell | Westmont Tractor & Equipment Co. |
| | Missoula | " " " |
| Nevada | Reno | Pioneer Equipment Co. of Nevada |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Feenaghty Machinery Co. |
| Utah | Salt Lake City | Wheeler-Kershaw Co. |
| Washington | Seattle | Feenaghty Machinery Co. |
| | Spokane | " " " |
| Wyoming | Casper | Colorado Builders Supply Co. |

PITMAN MANUFACTURING CO.
300 W. 79th St., Terrace
Kansas City 14, Missouri

PRODUCTS: Cranes, Truck-Mounted; Pitman Hydra-Lift (3 ton) and Pitman Crane, Model 80 (4 ton).

DISTRICT REPRESENTATIVE

California Altadena 1796 E. Mendocino St. Bert McMillin

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Engineering Sales & Service, Inc. |
| Montana | Helena | Montana Powder & Equipment Co. |
| New Mexico | Albuquerque | Winter-Weiss Company |
| Oregon | Portland | Loaders & Contractors Machinery Co. |
| Utah | Salt Lake City | H.M. Nielsen Company |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " " " |

POWDER POWER TOOL CORP.
7526 S.W. Macadam Ave.
Portland 1, Oregon

PRODUCTS: Powder Actuated Tools and Fasteners.

DISTRIBUTORS

| | | |
|------------|------------------|--------------------------------------|
| Arizona | Douglas | Douglas Hardware Co. |
| | Nogales | Commercial Distributors |
| | Phoenix | Arizona Welding Equipment Co. |
| | Tucson | AWECO Supply Co. |
| | " | Erv's Rental Service |
| | " | Industrial Tool & Supply Co. |
| California | Bakersfield | McCarthy Tank & Steel Co. |
| | La Jolla | A.B. Cartwright |
| | Long Beach | Masterson Tool & Equipment Co. |
| | Los Angeles | Gridley Equipment Co. |
| | " | The Hubbard Co. |
| | " | Industrial Power Tool Co. |
| | " | R.S. Hardy, Inc. |
| | San Diego | Hudson Corp. |
| | San Francisco | J.F. Hamlin Co., Inc. |
| | " | West Coast Industrial Sales Co. |
| Colorado | Colorado Springs | Bishop Tool Rental |
| | Denver | The Pape Organization |
| | " | Stapleton Supply, Inc. |
| | Pueblo | Pueblo Tool Rental Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " " " |
| Montana | Billings | Rental Equipment Co. |
| | Great Falls | Building Service, Inc. |
| | " | Glacier State Electric Supply Co. |
| | Helena | Builders Supply Co. |
| Nevada | Las Vegas | Industrial Power Tool Co. |
| | " | Inland Service & Supply Co. |
| New Mexico | Albuquerque | Albuquerque Machine & Supply |
| | " | Industrial Power Tool Co. |
| Oregon | Eugene | Barnum Tool Co. |
| | Portland | West Pacific Sales Co. |
| | Salem | Salem Saw Works |
| Utah | Salt Lake City | Mark A. Stokes Co. |
| | Tooele | Farm & Home Builders Supply |
| Washington | Seattle | West Pacific Sales Co. of Washington |
| | Spokane | Safway Scaffold Co. of Spokane |
| | Tacoma | St. Paul & Tacoma Lumber Co. |
| | Yakima | Safway Scaffold Co. of Yakima |
| Wyoming | Cheyenne | A.Y. McDonald Manufacturing Co. |
| | " | Cook Plumbing & Heating Co. |
| | Evanson | Cerruth & Son |

PRECOR, INC.
6300 East Slauson Ave.
Los Angeles 22, Calif.

PRODUCTS: Bulldozer Back-Rippers and Dozer-Rippers.

DISTRIBUTORS

See list of Caterpillar Dealers.

THE PRIME-MOVER COMPANY
Sampson Street
Muscatine, Iowa

PRODUCTS: Prime-Mover; Wheelbarrow Type Dump Hopper of 10 cu. ft. Capacity, Interchangeable with Platform Body in few seconds; 50-inch Steel Grader Blade Attachment; Gasoline-powered, Gear-driven, takes three-quarter ton load.

DISTRIBUTORS

| | | |
|------------|----------------|--|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Oakland | Ricker Machinery Co. |
| | Culver City | Superior Scaffold Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | The Sawtooth Co. |
| New Mexico | Albuquerque | J.D. Coagins Co. |
| Nevada | Reno | Pioneer Equipment Co. |
| Oregon | Portland | Contractors Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Universal Equipment Co. |
| | Spokane | Andrews Equipment Service of Wash., Inc. |
| Wyoming | (Salt Lake) | Rocky Mountain Machinery Co. |

QUINCY COMPRESSOR CO.
304 Maine Street
Quincy, Illinois

PRODUCTS: Air Compressors; Dry Vacuum Pumps.

FACTORY BRANCH

California San Francisco 1185 Mission St. Bernard Katz

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Berkeley | Central Equipment Co. |
| | Fresno | Edward R. Bacon Co. |
| | Los Angeles | Essick Manufacturing Co. |
| | " | Binks Manufacturing Co. |
| | " | Sherpe Manufacturing Co. |
| | " | Smith-Booth-Usher Co. |
| | Modesto | Benson & Zimmerman |
| | Oakland | J.T. Cline, Quincy Compressor Serv. |
| | Redding | Rother Auto Parts |
| | Sacramento | Franklin Machinery Co. |
| | " | Western Machinery Co. |
| | San Francisco | Edward R. Bacon Co. |
| | " | Binks Manufacturing Co. |
| | " | Coast Equipment Co. |
| | " | Western Machinery Co. |
| Colorado | Denver | Gunderson-Taylor Machinery Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Clyde Equipment Co. |
| | " | Contractors Equipment Co. |
| | " | Equipment Service, Parts & Service |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Alaska Pacific Supply Co. |
| | " | Olympic Supply Co. |
| | " | Northwest Industrial Equipment Co. |
| | " | Parts and Service |
| | Spokane | Western Machinery Co. |

"QUICK-WAY" TRUCK SHOVEL CO.
2401 E. 40th Avenue
Denver, Colorado

PRODUCTS: Truck Shovels; Cranes; Draglines.

DISTRICT REPRESENTATIVES

| | | | |
|------------|---------------|-------------------|------------------|
| California | San Francisco | 2310 Chestnut St. | W.W. Cornell |
| Washington | Bellevue | 10564 NE 25th | Leonard Overholt |
| Colorado | Denver | P.O. Box 1800 | Cecil W. Terrel |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | San Francisco | Edward R. Bacon Co. |
| | Oakland | " " " |
| | Fresno | " " " |
| | Sacramento | " " " |
| | Stockton | " " " |
| | Los Angeles | Cook Bros. Equipment Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Idaho Falls | Arnold Machinery Co., Inc. |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Billings | " " " |
| | Great Falls | " " " |
| | Missoula | " " " |
| Nevada | Reno | Edward R. Bacon Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Oregon | Portland | Nelson Equipment Co. |
| Utah | Salt Lake City | Arnold Machinery Co., Inc. |
| Washington | Seattle | Nelson Equipment Co. |
| | Spokane | General Machinery Co. |
| | Cheyenne | Kereml Tractor & Equipment Co. |
| Wyoming | Casper | " " " |

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

RAMSET FASTENERS, INC.
12117 Berea Road
Cleveland 11, Ohio

PRODUCTS: Powder Actuated Tools; Fasteners and Powder Charges.

DISTRIBUTORS

| | | |
|------------|----------------|---|
| Arizona | Phoenix | Thunderbird Sales Corp. |
| | Tucson | Industrial Tool & Supply Co. |
| California | Bakersfield | Pioneer Mercantile Co. |
| | Compton | Crown Pipe & Supply Co. |
| | | Thieme Construction Supplies |
| | Eureka | George C. Jacobs Co. |
| | Fresno | A.L. Young Machinery Co. |
| | Indio | Valley Lumber & Supply Co. |
| | Los Angeles | Andrey Co., Inc. |
| | " | Mine & Mill Machinery Co. |
| | " | Moss & Hallock |
| | Modesto | American Lumber Co. |
| | Monterey | Peninsula Saw Shop |
| | Oakland | Haven Saw & Tool Co. |
| | Sacramento | Rubber Products Co. |
| | | Sacramento Machinery Co. |
| | Salinas | Electric Supply of Salinas |
| | " | Tynan Lumber Co. |
| | San Diego | Construction Tool & Supply Co. |
| | San Francisco | Elder & Co. |
| | " | Fasico |
| | " | Hobelman & Co. |
| | " | A.L. Young Machinery Co. |
| | San Jose | Power Tool Mart |
| | Santa Ana | V.B. Anderson Co. |
| | Stockton | Delta Pipe & Supply Co. |
| | Ventura | Peoples Lumber Co. |
| | " | Grov-Garrick Co. |
| | Whittier | V.B. Anderson Co. |
| Colorado | Denver | Central Electric Supply Co. |
| | " | Landes, Zachary & Peterson |
| | " | M.L. Foss, Inc. |
| | " | Union Supply Co. |
| | Grand Junction | Pacific & Western Industrial Supply Co. |
| | Pueblo | Johnson Electric Co. |
| | | Pueblo Electric Supply |
| | | Safway Scaffold Co. |
| Idaho | Boise | Arnold Machinery, Inc. |
| | Idaho Falls | Mid-State Supply Co. |
| | Twin Falls | Gardner Supply Co. |
| Montana | Billings | Building Specialties Co. |
| | Butte | Construction Materials Co. |
| | Havre | Treasure State Supply |
| | Livingston | Builders Machine Co. |
| | Missoula | Missoula Mercantile Co. |
| | | Hub Electric Supply |
| Nevada | Reno | Kitchen Electric Supply Co. |
| New Mexico | Albuquerque | Contractors' Equipment & Supply Co. |
| | " | Landes, Zachary & Peterson |
| | " | Sante Fe Builders Supply Co. |
| | Carlsbad | Carlsbad Supply Co. |
| | Santa Fe | Santa Fe Builders Co. |
| Oregon | Asforia | Fisher Brothers Co. |
| | Baker | Oregon Lumber Co. |
| | Coos Bay | W.J. Conrad Lumber Co. |
| | The Dalles | Stiedelmann-Bonn Hardware Co. |
| | Eugene | John Warren Hardware |
| | | T.V. Williams |
| | Grants Pass | Jack Humrick |
| | Klamath Falls | Svan Lake Moulding Co. |
| | Pendleton | Lum-A-Lum Lumber Co. |
| | Portland | Cascade Distributors, Inc. |
| | Salem | Valley Welding Supply |
| Washington | Aberdeen | Grays Harbor Equipment Co. |
| | Bellingham | J.M. Van Winkle |
| | Everett | Everett Hardware Co. |
| | Pasco | Lehl Electric Supply Co. |
| | Seattle | Cascade Distributors, Inc. |
| | | Northern Commercial Co. |
| | Spokane | Cascade Distributors, Inc. |
| | Tacoma | Harold Bird, Inc. |
| | Yakima | Arthur Krum Co. |
| Wyoming | Casper | Landes, Zachary & Peterson |
| | Cheyenne | Wyoming Builders Supply Co. |
| | | Power Builders Supply |

THE READY POWER CO., POWER PLANT DIVISION
11231 Freud Avenue
Detroit 14, Michigan

PRODUCTS: Engine Generator Sets; Electric Sets - Diesel and Gasoline; Magnet Chargers; Engine Refrigeration Compressors.

DISTRICT MANAGERS

| | | | |
|------------|-----------------|----------------------------|---------------------|
| California | Huntington Park | Box 1205 State St. Sta. | Karl Mollendick |
| Washington | Seattle | 1424 11th Ave. | George Hundsdoerfer |

DISTRIBUTORS

| | | |
|------------|-------------|--------------------------------------|
| California | Fresno | Allied Equipment Co. |
| | Los Angeles | Brown-Beris Industrial Equipment Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| | Sacramento | Sacramento Valley Tractor Co. |
| | San Diego | Southern Equipment & Supply Co. |

Continued next column

THE READY POWER CO. (CONTINUED)

| | | |
|------------|----------------|--------------------------------|
| Colorado | Denver | Hahn Equipment Co. |
| | Glenwood Sprs. | Elliott Equipment Co. |
| | Grand Junction | Hellam-Boggs Truck & Impl. Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | " | " |
| | Pocatello | " |
| Montana | Billings | Industrial Equipment Co. |
| | Butte | " |
| | Kalispell | " |
| | Livingston | " |
| | Missoula | " |
| Nevada | Reno | Nevada Equipment Service, Inc. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Central Point | " |
| | Coquille | " |
| | Eugene | " |
| | New Port | " |
| | Portland | " |
| | Roseburg | " |
| Washington | Seattle | Fremont Electric Co. |
| | " | Glenn, Carrington & Co. |
| | " | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |

REESE ENGINEERING CO.
9517 E. Rush Street
El Monte, California

PRODUCTS: Hydraulic Loaders; Fork Lift Attachments; Anale Dozers; Backfill Blades; Jib Rooms; Hydraulic Cylinders; Custom Work.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| | Cottonwood | Western Welding & Sales |
| California | Los Angeles | Casey-Metcalf Machinery Co. |
| | El Monte | Reco Equipment Corp. |
| | San Francisco | Coast Equipment Co. |
| Colorado | Denver | Gundersen-Taylor Machinery Co. |
| | Grand Junction | All Willis Sales Co. |
| | Pueblo | Gundersen-Taylor Machinery Co. |
| Idaho | Boise | The Sawtooth Co. |
| Montana | Great Falls | Central Machinery Co. |
| | Missoula | Missoula Mercantile Co. |
| | Kalispell | Modern Equipment Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | No. Salt Lake | Taylor Machinery Co. |
| Washington | Seattle | Modern Machinery Co. |
| | Spokane | " |

REISSER CORPORATION
P.O. Box 362
Blair, Nebraska

PRODUCTS: Elevgrader - Elevating Grader Attachment for Adams Motor Graders. Models 550, 610 and 660.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| | Tucson | " |
| California | Bakersfield | Crook Co. |
| | Escondido | Southern Equipment & Supply Co. |
| | Eureka | Howard-Cooper Corp. |
| | Fresno | Allied Equipment Co. |
| | Los Angeles | Crook Co. |
| | Oakland | Bay Cities Equipment Co. |
| | Redding | Sullivan & Grove Equipment Co. |
| | Riverside | Braman-Dickerson Co. |
| | Sacramento | Sacramento Valley Tractor Co. |
| | Salinas | Farmers Mercantile Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | Santa Maria | Hanson Equipment Co. |
| | Stockton | Graco |
| | Stratford | Orton's Equipment Co. |
| | Visalia | Exeter Mercantile Co. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| | Missoula | " |
| Nevada | Las Vegas | Clark County Wholesale Mercantile Co. |
| | Reno | Nevada Equipment Service Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Central Point | " |
| | Coquille | " |
| | Eugene | " |
| | Newport | " |
| | Portland | " |
| | Roseburg | " |
| Utah | Salt Lake City | The Leng Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

REMINGTON ARMS COMPANY, INC.
939 Barnum Avenue
Bridgeport 2, Connecticut

PRODUCTS: Model 450 Remington Stud Driver; Accessory Guards for Anchoring Pre-Fabricated Metal Sections; Cartridges; Accessory Fittings (couplings, conduit clips, eye-nuts, cupped washers).

| DISTRICT MANAGERS | | | |
|-------------------|------------------|----------------------------------|--------------|
| California | San Francisco | 785 Market St. | D.L.Braun |
| Oregon | Portland | 921 SW Washington | D.N.Wiemer |
| Utah | Salt Lake City | Walker Bk. Bldg. | D.W.Flanigan |
| DISTRIBUTORS | | | |
| Arizona | Phoenix | Waco-Scaffolding & Equipment Co. | |
| California | Los Angeles | Nelson Stud Welding | |
| | " | Waco-May Company | |
| | " | Warden Tool Co. | |
| | Sacramento | Warden Tool Co. | |
| | San Diego | " " | |
| | San Francisco | " " | |
| | San Leandro | Nelson Stud Welding | |
| Colorado | Colorado Springs | Hendrie & Bolthoff Co. | |
| | Denver | General Electric Supply Co. | |
| | " | Hendrie & Bolthoff Co. | |
| | " | Nelson Stud Welding | |
| | " | Waco Scaffolding | |
| | Grand Junction | The Salt Lake Move. Co. | |
| Idaho | Boise | General Electric Supply Co. | |
| | " | The Salt Lake Hardware Co. | |
| Montana | Billings | Billings Hardware Company | |
| | " | General Electric Supply Company | |
| | " | Marshall-Wellis Company | |
| | Butte | General Electric Supply Company | |
| Nevada | Reno | Sierra Machinery Company, Inc. | |
| New Mexico | Albuquerque | Lively Equipment Company | |
| Oregon | Eugene | Woodbury Eugene | |
| | Medford | Woodbury Medford | |
| | Portland | Home Makers Supply Company | |
| | " | Woodbury & Company | |
| Utah | Salt Lake City | General Electric Supply Company | |
| | " | The Salt Lake Hardware Company | |
| Washington | Seattle | Seattle Hardware Company | |
| | Spokane | Jensen-Burd Company | |
| | " | Gibson Welding Supplies, Inc. | |
| Wyoming | Casper | General Electric Supply Co. | |
| | " | Wyoming Automotive Company | |

W.A.RIDDLELL CORPORATION
E. Warren
Bucyrus, Ohio

PRODUCTS: WARCO Graders.

DISTRICT REPRESENTATIVE

| | | | |
|------------|--------------|---------------------|---------------|
| California | Walnut Creek | 124 Springside Road | Joe D.Wheeler |
|------------|--------------|---------------------|---------------|

| DISTRIBUTORS | | | |
|--------------|----------------|-----------------------------------|--|
| Arizona | Phoenix | Equipment Sales Co. | |
| California | Berkeley | West Coast Engine & Equipment Co. | |
| | El Monte | Warnock-Bancroft Equipment Co. | |
| | Eureka | Riley Logging & Supply Co. | |
| | Fresno | Reynolds Equipment Co. | |
| | Redding | Paul Droscher Sales | |
| | San Diego | Hudson Equipment Co. | |
| Colorado | Denver | Graham Road Equipment Co. | |
| Idaho | Boise | The Sawtooth Company | |
| Montana | Helena | Caird Engineering Works | |
| Oregon | Portland | Nelson Equipment Co. | |
| Utah | Salt Lake City | Lund Machinery Co. | |
| Washington | Seattle | Western Tractor & Equipment Co. | |
| Wyoming | (Denver) | Graham Road Equipment, Inc. | |

ROCKLAND ALLIED EQUIPMENT CORP.
Marborside Park
Providence 5, Rhode Island

PRODUCTS: Rockland Heavy Duty Land-Clearing Rakes; Rock Rakes; Root Rakes; Bulldozer and Angledozer Blades.

| DISTRIBUTORS | | | |
|--------------|----------|-------------------------------------|--|
| Colorado | Denver | Power Equipment Co. | |
| Montana | Billings | Industrial Equipment Co. | |
| | " | Seltz Machinery Co., Inc. | |
| | Sidney | Richland Machinery Co. | |
| Nevada | Reno | Nevada Equipment Service, Inc. | |
| Oregon | Portland | Loggers & Contractors Machinery Co. | |
| Washington | Seattle | Hulse Machinery Co., Inc. | |

WESTERN CONSTRUCTION COVERS ALL
OF THE WEST'S BIG AND GROWING CONSTRUCTION
MARKET

JOHN A. ROEBLING'S SONS CORP.
640 South Broad Street
Trenton 2, New Jersey

PRODUCTS: Wire Rope Strand and Assemblies; Wire Rope Slings; Electrical Wire & Cable; Tensioning Materials for Prestressed Concrete; Suspension Bridges & Cable; Tramways.

| FACTORY BRANCHES | | | |
|------------------|---------------|---------|---------------|
| California | Los Angeles | Manager | R.C.Groesbeck |
| | San Francisco | " | G.C.Bukowsky |
| Colorado | Denver | " | G.P.Hays |
| Washington | Seattle | " | A.R.Robinson |

ROGERS BROTHERS CORPORATION
Orchard Street
Aiblon, Pennsylvania

PRODUCTS: Low Bed Heavy Duty Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|---|
| California | San Francisco | Coast Equipment Corp. |
| Colorado | Denver | H.W.Moore Equipment Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Montana Trailer Sales & Equipment Co. |
| | Missoula | Miller Machinery Co. |
| New Mexico | Albuquerque | J.D.Coggins Company |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Transport Trailer & Equipment Co., Inc. |
| Wyoming | Cheyenne | Cheyenne Truck Equipment Co. |

ROSCO MANUFACTURING CO.
3118 Snelling Avenue
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Road Maintenance Units; Sweepers; Haul Tanks (Bituminous); Street Cleaners; Street Flushers; Water Sprinklers for Soil Stabilization; Asphalt Kettles; Burners; Road Rollers.

| DISTRIBUTORS | | | |
|--------------|----------------|--------------------------------|--|
| Arizona | Phoenix | Equipment Sales Co. | |
| California | Los Angeles | Larson Equipment Co. | |
| | San Francisco | FWD Pacific Co. | |
| Colorado | Denver | H.W.Moore Equipment Co. | |
| Idaho | Boise | The Starline Equipment Co. | |
| | Idaho Falls | Parkinson Tractor Co. | |
| Montana | Missoula | Westmont Tractor & Equipment | |
| Nevada | Reno | Sierra Machinery Co. | |
| Oregon | Portland | Contractors Equipment Co. | |
| Utah | Salt Lake City | Wheeler-Kershaw Co. | |
| Washington | Seattle | A.H.Cox & Co. | |
| | Spokane | Modern Machinery Co. | |
| Wyoming | Casper | Studer Tractor & Equipment Co. | |

ROWE MANUFACTURING CO.
614 W.Third Street
Galesburg, Illinois

PRODUCTS: Ro-Way Overhead Type Doors and Electric Operators for use in Commercial and Industrial Buildings, and Residential Garages.

| DISTRIBUTORS | | | |
|--------------|------------------|------------------------------|--|
| Arizona | Phoenix | Baker-Thomas-Woolsey, Inc. | |
| Colorado | Colorado Springs | Colorado Overhead Door Co. | |
| | Denver | Colorado Builders Supply | |
| Idaho | (Salt Lake) | Alder Sales Corp. | |
| Montana | Billings | Wm.M.Kennedy | |
| | Butte | Archie W.Adams | |
| | Havre | Treasure State Supply | |
| New Mexico | Albuquerque | Gobusco Steel Products | |
| | Artesia | Jay F.Vandewater | |
| Wyoming | (Denver) | Colorado Builders Supply Co. | |

R.P.B. CORPORATION
2751 E. 11th Street
Los Angeles 23, Calif.

PRODUCTS: Rapid Pavement Breakers.

DISTRIBUTORS

| | | |
|------------|---------|-----------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | Oakland | J.H.Wilson Co. |
| Washington | Seattle | A.H.Cox & Co. |

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. finances installment sales
of equipment for many Distributors

ST. PAUL HYDRAULIC HOIST
Mattoon
IllinoisPRODUCTS: Hoists & Bodies; Frate-Gate Elevating End Gates;
Pax-all Refuse Collection Bodies.

DISTRICT MANAGER

California Richmond Gar Wood Industries J.T.Conway

DISTRIBUTORS

| | | |
|------------|-------------|--------------------------|
| Arizona | Phoenix | Fruehauf Trailer Company |
| California | Fresno | Acme Trailer & Mfg. Co. |
| | Los Angeles | Standard Auto Body Co. |
| | Oakland | Utility Body Company |
| Colorado | Denver | Timple Brothers |
| Montana | Great Falls | Johnson Distributing Co. |
| Nevada | Reno | Acme Iron & Machine Co. |
| New Mexico | Albuquerque | Timple Brothers (Branch) |
| Oregon | Portland | Fruehauf Trailer Company |
| Washington | Seattle | " " " |
| | Spokane | " " " |

THE SALEM TOOL CO.
267 S. Ellsworth Avenue
Salem, OhioPRODUCTS: Salem Ladles, Kettles and Skimmers; McCarthy Auger
Drills; Trench-Type Utility Drills; Truck Mounted
and Self-Propelled Horizontal Highway Drills;
Vertical 6" and 8" Drills; Mineral Recovery Drills.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | San Francisco | Edward R. Bacon Co. |
| | Los Angeles | Smith-Booth-Usher Co. |
| | San Diego | Gould Hardware & Machinery Co. |
| Colorado | Denver | Union Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Carlsbad | Carlsbad Supply Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Clyde Equipment Co. |
| | Spokane | Intermountain Equipment Co. |

SALYERS EQUIPMENT COMPANY
728 E. Washington Blvd.
Los Angeles 21, CaliforniaPRODUCTS: Generator Sets - Diesel, Gasoline and Natural Gas
Powered.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Garlinghouse Bros. |
| | " | Smith-Booth-Usher Co. |
| | Oakland | Pacific Graphite Co. |
| | " | Edward R. Bacon Co. |
| | Sacramento | " " " " |
| | " | Moore Equipment Co. |
| | " | Western Tractor Co. |
| | San Diego | Hudson Equipment Co. |
| | San Francisco | Edward R. Bacon Co. |
| | " | Coast Equipment Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | Gunter & Zimmerman Sales Div., Inc. |
| Idaho | Boise | Western Machinery Co. |
| Montana | Billings | Engineering Sales & Service, Inc. |
| | Butte | Montana Powder & Equipment Co. |
| | Helena | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | Montana Powder & Equipment Co. |
| | " | J.D. Coggins Company |
| | " | Contractors Equipment & Supply Co. |
| | " | Harry Cornelius Company |
| Oregon | Portland | LeGrand Industrial Supply Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | A.H. Cox & Company |
| | Spokane | Western Machinery Co. |
| | Tacoma | A.H. Cox & Company |
| | Wenatchee | " " " " |

SASGEN DERRICK COMPANY
3101 Grand Avenue
Chicago 22, Illinois

PRODUCTS: Derricks; Hoists and Winches.

The WESTERN CONSTRUCTION Annual Highways Issue, published each year in June, is a yearbook of progress in Western highway design, construction methods and costs. Advertisers in this special issue gain extra reader interest.

SAUERMAN BROS., INC.
620 S. 28th Avenue
Bellwood, IllinoisPRODUCTS: Drag Scrapers; Slachline & Tautline Cableways;
Wire Rope Blocks; Wire Rope & Wire Rope Fittings.

DISTRIBUTORS

| | | |
|------------|-------------|-----------------------------|
| California | Los Angeles | Smith-Booth-Usher Co. |
| | Fresno | Hugh L. Davis |
| Colorado | Denver | Constructors Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " " |
| | Great Falls | " " " " |
| | Missoula | " " " " |
| Oregon | Portland | Clyde Equipment Co. |
| Washington | Seattle | " " " " |
| | Spokane | Intermountain Equipment Co. |

SCHIELD BANTAM COMPANY
211 Park Street
Waverly, IowaPRODUCTS: Trench Hoes; Draglines; Clamshells; Shovels; Cranes;
Magnets; Pile Drivers; Grapples; Backfillers.

DISTRICT MANAGERS

| | | | |
|------------|-----------|---------------|------------------|
| California | San Mateo | 419 41st Ave. | A. Frank Lendolt |
| Washington | Spokane | P.O. Box 849 | R.A. Otterness |

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | O.S. Stapley Co. |
| California | Fresno | Moore Equipment Co., Inc. |
| | Los Angeles | Cesey-Melcalf Machinery Co. |
| | No. Sacramento | Moore Equipment Co., Inc. |
| | Oakland | Bay Cities Equipment Co. |
| | Redding | Moore Equipment Co., Inc. |
| | San Diego | Shaw Sales & Service Co. |
| | Stockton | Moore Equipment Co., Inc. |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| | Missoula | " " " " |
| Nevada | Elko | A-D Machinery Co. |
| | Reno | Moore Equipment Co., Inc. |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| | Roswell | Smith Machinery Co., Inc. |
| Oregon | Medford | Heupert Tractor Co. |
| | Portland | Wood Tractor Company |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Seattle | Modern Machinery Co. |
| | Spokane | Yukon Equipment, Inc. |
| | | Modern Machinery Co. |

SCHRAMM, INC.
West Chester
PennsylvaniaPRODUCTS: Backfill Tamperers; Back Hoes; Bucket Loaders; Chain
Saws; Clay Diggers; Clay Spades; Compressors; Concrete
Breakers; Crawler Compressors; Demolition Tools; Earth
Drills; Loaders; Pavement Breakers; Rock Bits; Rock
Drills; Power Shovels; Snow Plows; Sump Pumps;
Tamperers; Wagon Drills; Pneumatricators.

FACTORY BRANCHES

| | | | |
|------------|---------------|-----------------|------------------------|
| California | Los Angeles | 846 E. 6th St. | Karl S. Burlie, Mgr. |
| | San Francisco | 1315 Howard St. | Robert D. Harlow, Mgr. |

DISTRICT REPRESENTATIVE

| | | | |
|--------|----------|--------------------|-------------------|
| Oregon | Portland | 2727 SE Union Ave. | Harlan K. Knudson |
|--------|----------|--------------------|-------------------|

DISTRIBUTORS

| | | |
|------------|-----------------|------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Corte Madera | North Bay Equipment Co. |
| | El Cajon | Davault Equipment Rental |
| | Eureka | Eureka Boiler Works |
| | Fresno | Haile Murray Co. |
| | Huntington Park | Fred E. Paugh, Inc. |
| | King City | Farmers Mercantile Co. |
| | Los Angeles | Schramm, Inc. |
| | " | Acme Rentals |
| | " | Active Rentals |
| | " | Harron Rickard & McCone |
| | " | Lerson Equipment Co. |
| | " | Machinery Rental |
| | " | Marlin Supply Co. |
| | Porterville | Porterville Equipment Rental |
| | Redding | Gerlinger Steel & Supply Co. |
| | Richmond | Bay Equipment Co. |
| | Riverside | Braman Dickerson Co., Inc. |
| | Salinas | Farmers Mercantile Co. |
| | San Carlos | Peninsula Equipment Co. |
| | San Diego | Hudson Equipment Co. |
| | San Francisco | Schramm, Inc. |
| | " | Wade's Equipment Repair |
| | Van Nuys | Valley Trailer Rentals |
| | Watsonville | Farmers Mercantile Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

SCHRAMM, INC. (CONTINUED)

| | | |
|------------|----------------|----------------------------------|
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Great Falls | " " " " " |
| | Helena | " " " " " |
| | Missoula | " " " " " |
| Nevada | Reno | C.D. Roeder Equipment Co. |
| New Mexico | Albuquerque | The Harry Cornelius Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | Heiner Equipment & Supply Co. |
| | " | Rasmussen Equipment & Supply Co. |
| Washington | Seattle | Universal Equipment Co. |
| | Spokane | General Machinery Co. |
| Wyoming | Casper | Casper Supply Co. |

SCREEN EQUIPMENT CO., INC.
1754 Walden Avenue
Buffalo 25, New York

PRODUCTS: Vibrating Screen.

DISTRIBUTORS

| | | |
|------------|----------------|--|
| California | San Francisco | Cheney Machinery Sales & Parts Service |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Engineering Sales Service, Inc. |
| New Mexico | (Salt Lake) | National Equipment Company |
| Nevada | San Francisco | Cheney Machinery Sales & Parts Service |
| Oregon | Portland | Balzer Machinery Company |
| Utah | Salt Lake City | National Equipment Co. |
| Washington | Spokane | Western Machinery Co. |
| Wyoming | (") | " " " " " |

SEAMAN MOTORS, INC.
305 North 25th Street
Milwaukee 3, Wisconsin

PRODUCTS: Mixers and Pulverizers; Soil Stabilization.

DISTRICT REPRESENTATIVES

| | | |
|------------|-----------|-----------------------|
| Arizona | Mesa | 508 N. Robson Street |
| California | San Mateo | 606 S. El Camino Real |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Mesa | Lyle E. Trimble, Inc. |
| California | Bakersfield | Lawless Brothers |
| | Fresno | Peerless Tractor & Equipment Co. |
| | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | N. Sacramento | Moore Equipment Co. |
| | Salinas | Farmers Mercantile Co. |
| | San Francisco | Western Tractor Co. |
| | Stockton | Moore Equipment Co. |
| | Denver | Liberty Trucks & Parts Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Pocatello | Industrial Equipment Co. |
| Montana | Billings | Normont Equipment Co. |
| | Great Falls | Treasure State Equipment Co. |
| | Kalispell | Moore Equipment Co. |
| Nevada | Reno | Contractors Equipment & Supply Co. |
| New Mexico | Albuquerque | Western Machinery Co. |
| | Salt Lake City | Jack Sahlberg Equipment Co. |
| Washington | Seattle | Studer Tractor & Equipment Co. |
| Wyoming | Casper | " " " " " |

SELMA TRAILER & MANUFACTURING CO.
3111 Highway 99
Selma, California

PRODUCTS: Trailers - Automotive and Agricultural, to 5 ton capacity; Construction Trailers for portable toolsheds and scaffolds; Trap Wagons; Trailers for hauling cement forms, steel water tanks and equipment; "Pallets on Wheels".

SHAWNEE MANUFACTURING CO., INC.
1947 N. Topeka
Topeka, Kansas

PRODUCTS: Shawnee Hydro-Clam Excavators; Bull Dozers; Angle Dozers; Rear Blades; Backhoes; Scout Backhoes (Hydraulic).

SHUNK MANUFACTURING COMPANY
1460 Auto Avenue
Bucyrus, Ohio

PRODUCTS: Grader, Snow Plow, Sawtooth (serrated), Bulldozer and Scraper Blade Cutting Edges for all makes of road construction and maintenance equipment.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| California | Berkeley | American Supply Co. |
| Colorado | Denver | Ray Carson Machinery Co. |
| Idaho | Boise | Feenoughy Machinery Co. |
| Montana | Butte | Hall-Perry Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Feenoughy Machinery Co. |
| Utah | Salt Lake City | Rasmussen Equipment & Supply Co. |
| Washington | Spokane | Tri-State Equipment Co. |
| Wyoming | Cheyenne | Wortham Machinery Co. |

THE SILENT GLOW OIL BURNER CORP.
850 Windsor Street
Hartford 5, Connecticut

PRODUCTS: Portable Forced Air and Radiant Heaters.

SIMPLICITY ENGINEERING CO.
Durand
Michigan

PRODUCTS: Gyraling Screens; Horizontal Type Screens; Simpli-Flow Two-Bearing Screens; Scalpers; Grizzlies; Dewatering Wheels; Oscillating Type Feeders and Conveyors.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| | Prescott | Arizona Mining Supply Corp. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | San Francisco | Standard Machinery Co. |
| Colorado | Denver | Patten Engineering Co. |
| Idaho | Pocatello | Rocky Mountain Machinery Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Kalispell | Treasure State Equipment Co. |
| | Missoula | " " " " " |
| New Mexico | Albuquerque | Harry Cornelius Co. |
| Oregon | Portland | Columbia Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Columbia Equipment Co. |
| | Spokane | Modern Machinery Co. |

SKAGIT STEEL & IRON WORKS
Sedro-Woolley
Washington

PRODUCTS: General Utility Hoists, Winches, Windlasses and Derricks.

SKIL CORPORATION
5033 Elston Avenue
Chicago 30, Illinois

PRODUCTS: Portable Electric & Pneumatic Tools; Saws; Drills; Sanders; Planes; Drivers & Nut Runners; Grinders; Hammers; Shears.

WESTERN FACTORY BRANCHES

| | | | |
|------------|---------------|----------------|-------------------|
| California | Los Angeles | Branch Manager | Paul Jones |
| | San Francisco | " " | Herman Pflug |
| Colorado | Denver | " " | J. Edward Walwood |
| Oregon | Portland | " " | Bart Macomber |
| Washington | Seattle | " " | Hank Linder |
| | Spokane | " " | Byron Hoffman |

SMITH ENGINEERING WORKS
532 E. Capitol Drive, P.O. Box 723
Milwaukee 12, Wisconsin

PRODUCTS: TelSmith Gyralory Breakers; Jaw Crushers; Gyrasphere Crushers; Intercone Crushers; Roll Crushers; Pulsators; Vibro-King Screens; Rotary Grizzlies; Hercules & Standard Rotary Screens; Super-Scrubbers; Screw Rewashers; Sand Classifiers; Sand Tanks; Sand Drags; Feeders; Apron Feeders; Elevators and Portable Crushing and Screening Plants.

DISTRICT MANAGERS

| | | | |
|------------|-------------|-----------------|-------------|
| California | Los Angeles | 816 W. 5th St. | B.S. Bailey |
| Oregon | Portland | 1631 NW Thurman | J.R. Smith |

DISTRIBUTORS

| | | |
|------------|-----------------|-----------------------------------|
| Arizona | Phoenix | Lee Redman Equipment Co. |
| California | Los Angeles | Robert S. Bailey |
| | San Francisco | Mines Engineering & Equipment Co. |
| Colorado | Denver | Constructors Equipment Co. |
| Idaho | Boise | The Sterline Equipment Co. |
| Nevada | (San Francisco) | Mines Engineering & Equipment Co. |
| | (Salt Lake) | Foulger Equipment Co. |
| Montana | Billings | Westate Machinery Co. |
| | Helena | Calrod Engineering Works |
| New Mexico | Albuquerque | Contractors' Equipment Co. |
| Oregon | Portland | Clyde Equipment Co. |
| Utah | Salt Lake City | Foulger Equipment Co. |
| Washington | Seattle | Clyde Equipment Co. |
| | Spokane | General Machinery Co. |

IF YOU WANT TO —

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use
THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

S. MORGAN SMITH COMPANY
Box 712
York, Pennsylvania

PRODUCTS: Hydraulic Turbines; Rotovolves; Ball Valves; Butterfly Valves; Howell-Bunger Valves for free discharge; Leonard Trash Rakes; Gates and Gate Moists; Adjustable Blade Axial Flow Pumps.

DISTRICT OFFICE

California San Francisco 68 Post St. PH: GA 1-5582

Western District Manager-General Products Div-Harry A. Doell
Western Manager-Industrial & Water Works Valves-J. H. Bolgeorain

SALES REPRESENTATIVES

California Los Angeles Water Works Supply Co.
" " W. J. Beckett Co.
San Francisco Trident Engineering Co.
" " Water Works Supply Co.
Oregon Portland E. A. Finkbeiner Co.
Washington Seattle Instrument Sales Co.

THE T. L. SMITH COMPANY
2835 N. 32nd Street
Milwaukee 10, Wisconsin

PRODUCTS: Stationary Tilting and NonTilting Concrete Mixers; Portable Concrete Mixers; Truck Mixers and Agitators.

DISTRIBUTORS

Arizona Phoenix Equipment Sales Company
California Los Angeles Essick Manufacturing Co.
San Diego Southern Equipment & Supply Co.
Oakland The Brose Company
Colorado Denver Constructors Equipment Co., Inc.
Idaho Boise Western Equipment Co.
Montana Helena Montana Powder & Equipment Co.
New Mexico Albuquerque R. L. Harrison Co., Inc.
Oregon Portland Clyde Equipment Co.
Utah Salt Lake City Lund Machinery Co.
Washington Seattle Clyde Equipment Co.
Spokane General Machinery Co.
Wyoming Casper Studer Tractor & Equipment Co.

SOUTHWEST WELDING & MANUFACTURING CO.
Alhambra
California

PRODUCTS: Scrapers; Rippers; Sheepfoot Rollers; Bottom-dump Wagons; Compaction Rollers; Sprinkler Tanks.

SPEARS-WELLS MACHINERY CO.
1832 W. 9th St.
Oakland 20, California

PRODUCTS: Road Oil Distributors; Retorts; Heater Planers; Screenings and Aggregate Spreaders; Brooms; Sweepers; Broom Winders; Patchers; Windrow Sizers; Water Tanks and Sprinklers; Specialized Equipment.

DISTRIBUTORS

California Los Angeles Crook Co.
Oakland Spears-Wells Machinery Co.
Nevada Reno Sierra Machinery Co.
Oregon Portland Cramer Machinery Co.
Utah Salt Lake City Arnold Machinery Co.

STANDARD STEEL CORPORATION
5001 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: Portable and Semi-Portable Asphalt Plants and Accessories; Subgraders; Cement and Aggregate Batching Plants.

DISTRIBUTORS

Arizona Phoenix Western Machinery Co.
Colorado Denver Faris-Horitz Equipment Co.
New Mexico Albuquerque N. C. Bible Co.
Oregon Portland Contractors Equipment Corp.
Utah Salt Lake City The Lang Co.
Washington Seattle Western Tractor & Equipment Co.

IF YOU WANT TO—

- Sell, rent, lease or buy used equipment
- Fill or get a good job
- Advertise an auction
- Offer or obtain some special service

THEN it is to your advantage to use

THE CLASSIFIED SECTION OF WESTERN CONSTRUCTION

STANDARD STEEL WORKS
16th & Howell Streets
North Kansas City 16, Missouri

PRODUCTS: Asphalt Pressure Distributors; Maintenance Distributors; Tar Kettles; Road Brooms; Gravel Spreaders; Street Flushers; Asphalt Supply Tanks; Asphalt Tools.

DISTRIBUTORS

Arizona Phoenix State Tractor & Equipment Co.
California El Monte Bronson Equipment Co.
San Francisco Western Tractor Co.
Colorado Denver McKelvy Machinery Co.
Idaho Boise Engineering Sales & Service, Inc.
Montana Billings Western Construction Equipment Co.
Nevada Reno C. D. Roeder Equipment Co.
New Mexico Albuquerque R. L. Harrison Co.
Oregon Portland Columbia Equipment Co.
Utah Salt Lake City Foulger Equipment Co.
Washington Seattle Columbia Equipment Co.
Wyoming Cheyenne Kerekt Tractor & Equipment Co.

STEPHEN'S-ADAMSON MFG. COMPANY
2227 East 37th Street
Los Angeles 58, California

PRODUCTS: Car Pullers; Conveyors; Crushers; Crushing Plants; Elevators; Feeders; Gates; Hand Winches; Hoists; Loaders; Mixers; Power Plants; Screens; Shovels; Transmissions; Vibrators; Vibratory Screens; Washing Plants; Winches.

FACTORY BRANCHES

California San Francisco Manager R. J. Cooper, Sr.
Oregon Portland " P. R. Hines
Utah Salt Lake City " Ray Nelson
Washington Seattle " Dan A. Lyons

STERLING DIVISION
The White Motor Company
842 E. 79th Street
Cleveland 1, Ohio

PRODUCTS: Sterling Motor Trucks, Gasoline and Diesel.

FACTORY BRANCHES

California San Francisco Manager H. P. Strother
Los Angeles " Lon A. Fleener
Colorado Denver " R. W. Cochran
Oregon Portland " H. D. Collins

PACIFIC COAST REGIONAL OFFICE

California San Francisco 590 Brannan St. W. D. Patterson

DISTRIBUTORS AND DEALERS

Arizona Kingman Williston & Ireland
Phoenix Truck Equipment Co.
California Bakersfield Southern Garage
Burbank George Cooper Co.
El Centro J. R. Townsend Co., Inc.
Eureka Bernie Anderson
Fresno Fresno Trailer Co.
Long Beach Joe Gill Motor Co.
Napa Regalia Machine Works
Oakdale P. E. Van Pelt, Inc.
Oakland White Truck Sales
Ontario Cochran & Nichols, Inc.
Petaluma John L. Bolfano
Redding William A. Bystle
Riverside Briggs & Elliot
Sacramento White Truck & Equipment Co.
Salinas Hanson Auto Company
San Diego J. R. Townsend Co., Inc.
San Jose C. L. Motor Co.
Santa Barbara The Roger Co.
Santa Rosa The Miller Motor Co.
Stockton Garvey Truck Service
Ukiah Chase's Garage
Woodland Ochoa Brothers
Colorado Durango La Plata Repair Shop
Grand Junction W. R. Hall Sales & Service
Idaho Lewiston Henderson Motors
Roberts Jackson Auto Service
Montana Billings Billings White Truck Co.
Great Falls Terminal Sales, Inc.
Helena Frontier Motors, Inc.
Kalispell Kalispell Service Co.
Lewiston Central Motor Sales
Miles City Walters Repair Shop
Missoula Teber White Truck Co.
Wolf Point Taylor Motor Co.
Nevada Reno Dennison Tractor & Supply Co.
New Mexico Albuquerque Inland White Truck Co.
Carlsbad H. T. Page
Hobbs Siler White Truck Co.
Oregon Eugene Gunderson Bros. Engineering Corp.
Albany Oregon Truck Sales, Inc.
Klamath Falls West-Hitchcock Corp.
Medford Witham Paris & Equipment Co.
Utah Cedar City Jones-Crawford Motor Co.
Logan Transport Motor Co., Inc.
Salt Lake City Lindner & Wood White Motor Sales

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

STERLING DIVISION
The White Motor Company (Continued)

| | | |
|------------|---|--|
| Washington | Aberdeen Raymond Seaville Spokane Tacoma Vancouver | Glynn Motors Ed Peterson Sales & Service Fageol Motors, Inc. Jones-White Truck Co. Tacoma White Trucks, Inc. McCoy Auto Co. |
| Wyoming | Casper Jerome Newcastle Warland | Century White Truck Co., Inc. Diamond Horseshoe Newcastle Equipment Co. H & S Motor Co. |

STERLING MACHINERY COMPANY
1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: PUMPS: Centrifugal, Diaphragm, Power and Sump.

| DISTRIBUTORS | | |
|--------------|----------------|---------------------------------------|
| Arizona | Phoenix | Pratt-Gilbert Hardware Co. |
| | Tucson | R. Ronstedt Hardware Co. |
| | Yuma | Harnett & Braden Tractor Co. |
| California | Bakersfield | Janco Pump & Engineering Co. |
| | Los Angeles | American Pump Co. |
| | " | Peerless Pump Div. Food Machy & Chem. |
| | Oakland | Pacific Pumping Co. |
| | San Francisco | Charles E. Lowe Co. |
| Colorado | Denver | H.W. Moore Equipment Co. |
| Idaho | Boise | Boise Implement Co. |
| | Idaho Falls | Parkinson Tractor Co. |
| Montana | Billings | Billings Pipe & Supply |
| | Missoula | Westmont Tractor & Equipment Co. |
| New Mexico | Elizcrite | United Supply & Manufacturing Co. |
| | Hobbs | United Supply & Manufacturing Co. |
| | Lovington | " |
| Oregon | Portland | Pacific Pumping Co. |
| | " | Pump Pipe & Power Co. |
| Utah | Salt Lake City | Nickerson Pump & Machinery Co. |
| Washington | Seattle | Glen Carrington & Co. |
| | " | Cascade Machinery Co. |
| | " | Modern Machinery Co. |
| | " | Pacific Holst & Derrick Co. |
| | Spokane | Modern Machinery Co., Inc. |
| Wyoming | Sheridan | Sheridan Iron Works, Inc. |

STOW MANUFACTURING CO.
443 State Street
Binghamton, New York

PRODUCTS: Concrete Vibrators; Concrete Vibrating Screeds;
Concrete Vibrating Screenshot Packages; Rotary Trowels;
Portable Concrete Grinding Machines & Accessories;
Flexible Shafts; Flexible Shaft Power Take-Off
Drives for Dump Trailers.

| REGIONAL REPRESENTATIVES | | |
|--------------------------|---------------|---|
| California | Los Angeles | 230 E. Anaheim Blvd. |
| | San Francisco | 445 Bryant St. |
| Oregon | Portland | 35 SW First Ave. |
| Washington | Seattle | 1934 First Ave. So. |
| | | Walter Humes A.C. Cope B. Rutherford B. Rutherford |

| DISTRIBUTORS | | |
|--------------|----------------|--------------------------------------|
| Arizona | Phoenix | Neil B. McGinnis Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | San Francisco | Trojan Tool Co. |
| | Denver | H.W. Moore Equipment Co. |
| Colorado | Denver | Pioneer Machinery Co. |
| Idaho | Idaho Falls | Flaherty Equipment Co. |
| | Pocatello | Industrial Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | Carl Weltsman & Sons |
| | Great Falls | Treasure State Equipment Co. |
| | Kaliispell | Westmont Tractor & Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Portland | Contractors Equipment Co. |
| | " | Andrews & Andrews Equipment Co. |
| Utah | Salt Lake City | J.T. Holland Co. |
| | " | Kimball Equipment Co. |
| Washington | Seattle | Shen Machinery Co. |
| | " | Pacific Holst & Derrick Co. |
| | Spokane | Construction Equipment Co. |

STRAUB MANUFACTURING CO., INC.
5383 Baldwin Street
Oakland 21, California

PRODUCTS: Rock Crushing & Mining Machinery.

| DISTRIBUTORS | | |
|--------------|------------------|----------------------------|
| Arizona | (El Paso) | Mine & Smelter Supply Co. |
| California | Los Angeles | Garlinghouse Bros. |
| | Oakland | Straub Manufacturing Co. |
| | Denver | Mine & Smelter Supply Co. |
| Colorado | (Spokane) | Construction Equipment Co. |
| Idaho | (Oakland) | Straub Manufacturing Co. |
| Nevada | (Denver-El Paso) | Mine & Smelter Supply Co. |
| New Mexico | Portland | Contractors Equipment Co. |
| Oregon | Salt Lake City | Lund Machinery Co. |
| Utah | Seattle | Washington Machinery Co. |
| Washington | Spokane | Construction Equipment Co. |

SUPERIOR CONCRETE ACCESSORIES, INC.
4110 Wrightwood Avenue
Chicago 39, Illinois

PRODUCTS: Snap Ties; Cone Fast Coil Ties; She-Bolts; Tilt-up
Slab Pick-up Inserting; Reinforcing Bar Chairs and
Spacers.

| PACIFIC COAST FACTORY | | |
|-----------------------|----------------|-------------------------------|
| California | San Leandro | Manager |
| | | H.G. Ballou |
| DISTRIBUTORS | | |
| Arizona | Phoenix | Building Specialties Supply |
| California | Los Angeles | Thomas Concrete Accessory Co. |
| | Sacramento | A.W. Burrows |
| Idaho | Boise | Western Equipment Co. |
| | Pocatello | Lumber Dealers Supply Co. |
| Nevada | Reno | Ready-Mix Concrete Co. |
| Oregon | Portland | Mercer Steel Co., Inc. |
| Utah | Salt Lake City | Cobusco Steel Products |
| Washington | Seattle | Construction Supplies Co. |
| | Spokane | Concrete Supplies Co. |

SUPERIOR-LIDGERWOOD-MUNDY CORP.
1101 John Avenue
Superior, Wisconsin

PRODUCTS: Hoisting Machinery; Car Pullers.

| DISTRIBUTORS | | |
|--------------|----------------|--------------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Brown-Bevis Industrial Equipment Co. |
| | San Francisco | Krogh Pump & Machinery Co. |
| Colorado | Denver | Western Machinery Co. |
| Oregon | Portland | Loggers & Contractors Machinery Co. |
| Utah | Salt Lake City | Western Machinery Co. |
| Washington | Seattle | Pacific Holst & Derrick Co. |
| | Spokane | Western Machinery Co. |

SYMONS BROTHERS COMPANY
11551 Hart Street
North Hollywood, Calif.

PRODUCTS: Vibrating Screens and Grizzlies.

| DISTRIBUTORS | | |
|--------------|----------------|-----------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | Los Angeles | The Conveyor Company |
| | San Francisco | Edward R. Bacon Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " |
| Oregon | Portland | Howard-Cooper Corp. |
| Utah | Salt Lake City | Cate Equipment Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |

SYMONS CLAMP & MANUFACTURING CO.
4249 Diversey Avenue
Chicago 39, Illinois

PRODUCTS: Concrete Forms; Column Clamps; Adjustable Shores;
Form Hardware and Ties.

| DISTRIBUTORS | | |
|--------------|----------------|------------------------------------|
| Arizona | Phoenix | AAA Building Specialties |
| Colorado | Denver | Art Jones Co. |
| Oregon | Portland | Concrete Forms, Inc. |
| Utah | Salt Lake City | Contractors Equipment & Supply Co. |
| Washington | Seattle | Concrete Forms, Inc. |

TALBERT CONSTRUCTION EQUIPMENT CO.
7950 W. 47th Street
Lyons, Illinois

PRODUCTS: Removable Gooseneck Low Bed Trailers; Dump Semi-
Trailers; Pole Trailers; Tubular Crane Booms.

| FACTORY BRANCHES | | |
|------------------|-----------|---------------------------------------|
| California | Inglewood | 240 W. Ivy Ave. |
| Colorado | Denver | E. 40th at York |
| | | Warth Bros. Fabr. Co. Timpke Bros. |

| DISTRIBUTORS | | |
|--------------|----------------|------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| California | Inglewood | Warth Bros. Fabricating Co. |
| Colorado | Denver | Timpke Bros. |
| Montana | " | " |
| New Mexico | Albuquerque | " |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Spokane | General Machinery Co. |
| Wyoming | " | Timpke Bros. |

CONSTRUCTION IN THE WEST IS DIFFERENT—
ONLY WESTERN CONSTRUCTION SERVES ITS SPECIAL NEEDS, AND YOURS

C. I. T. finances installment sales
of equipment for many Distributors

TAMPO MANUFACTURING CO.
P.O. Box 2340
San Antonio 6, Texas

PRODUCTS: Pneumatic Tired Rollers, Towed Type and Self-Propelled; Compactors; Tamping Rollers, Sheepfoot; Buckets - Concrete; Road Brooms; Ready-Mix Batching Plants; Bins; Conveyors; Crushing Plants; Gravel Plants; Screening Plants; Storage Bins; Washing Plants.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Smith-Booth-Usher Co. |
| | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| | Kellispell | Treasure State Equipment Co. |
| New Mexico | Albuquerque | Lively Equipment Co. |
| Nevada | Reno | Moore Equipment Co. |
| Oregon | Portland | Howard-Cooper Corp. |
| Utah | Salt Lake City | Kimball Equipment Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

TEMPLETON, KENLY & CO.
16th & Gardner Road
Broadview, Illinois

PRODUCTS: Simplex Jacks-Mechanical and Hydraulic; Lever Jacks-for speedy cap and toe lifting; Screw Jacks-for economy; Push and Pull Jacks-for assembly and maintenance; Drop Forged Steel Trench and Timber Braces; Hydraulic Jacks-for easier cap lifting; 3-100 ton capacity Jenny Center-Hole Hydraulic Pullers self-contained operations; and "Remotrol" Hydraulic Pullers with remote controlled Rams and Pumps with models 10 to 600 ton rated capacity; Roll-Toe Foot Lift Hydraulic Jacks.

BRANCH OFFICE

California Los Angeles c/o Wm. S. Pine 1635 E. 22nd St.

DISTRIBUTORS

| | | |
|---------------|----------------|-----------------------------------|
| Arizona | Phoenix | Arizona Hardware Co. |
| | | Pratt Gilbert Hardware Co. |
| California | Bakersfield | Hopper Machine Works, Inc. |
| | Emeryville | Republic Supply Co. of California |
| | Long Beach | American Wholesale Hardware Co. |
| | Los Angeles | California Hardware Co. |
| | " " | Ducommun Metals & Supply Co. |
| | " " | Fornaciari Co. |
| | " " | Oil Well Supply Co. |
| | " " | Republic Supply Co. of California |
| | " " | Union Hardware & Metals Co. |
| Sacramento | " " | Capital Machine & Welding Works |
| | " " | Thomson Diggs Co. |
| San Diego | " " | Gould Hardware & Machinery Co. |
| " " | " " | Hudson Corporation |
| " " | " " | Western Metal Supply Co. |
| San Francisco | " " | Edward R. Bacon Co. |
| " " | " " | C.H. Bull Co. |
| " " | " " | A.J. Giesener Co. |
| Stockton | " " | Austin Brothers, Inc. |
| " " | " " | Hickinbotham Bros. |
| Torrance | " " | National Supply Co. of California |
| Colorado | Denver | Mine & Smelter Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Great Northern Tool & Supply Co. |
| | Great Falls | Carl Weissman & Sons, Inc. |
| Nevada | Reno | Sierra Machinery Co. |
| New Mexico | Albuquerque | R.L. Harrison Co., Inc. |
| | " " | J. Korber & Co. |
| Oregon | Astoria | Fisher Brothers Co. |
| | Corvallis | Roeser's Hardware Co. |
| | Portland | Clyde Equipment Co. |
| " " | " " | J.E. Haseltine & Co. |
| " " | " " | Nelson Equipment Co. |
| Utah | Salt Lake City | Mine & Smelter Supply Co. |
| Washington | Seattle | Glenn Carrington Co. |
| " " | " " | Campbell Industrial Supply Co. |
| " " | " " | Clyde Equipment Co. |
| " " | " " | Seattle Hardware Co. |
| " " | " " | Star Machinery Co. |
| Spokane | " " | Klimmer & Sons |
| " " | " " | Towne Equipment Co. |
| Tacoma | " " | Hunt & Motter Co. |
| Yakima | " " | Yakima Hardware Co. |

HYDRAULIC SERVICE STATIONS

| | | |
|------------|----------------|---------------------------------|
| California | Los Angeles | Fornaciari Co. |
| | San Francisco | C.H. Bull Co. |
| Colorado | Denver | Quinn & McGill Motor Supply Co. |
| Oregon | Portland | Equipment Service Co. |
| Utah | Salt Lake City | Wilsons Transport Supply |
| Washington | Seattle | Universal Repair Shop |

THEW SHOVEL COMPANY
Lorain
Ohio

PRODUCTS: Power Shovels; Draglines; Cranes; Hoes; Clamshells.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------------|
| Arizona | Phoenix | Lee Redman Equipment Co. |
| California | Los Angeles | Electric Tool & Supply Co. |
| | San Francisco | Coast Equipment Co. |
| Colorado | Alamosa | McCoy Company |
| | Denver | " " |
| | Grand Junction | " " |
| | Sterling | " " |
| Idaho | Boise | Southern Idaho Equipment Sales Co. |
| | Idaho Falls | " " |
| | Twin Falls | " " |
| Montana | Glascow | Tractor & Equipment Co. |
| | Great Falls | Central Machinery Co. |
| | Havre | " " |
| | Kellispell | Mountain Tractor Co. |
| | Lewiston | Central Machinery Co. |
| | Miles City | Tractor & Equipment Co. |
| | Missoula | Mountain Tractor Co. |
| | Sidney | Tractor & Equipment Co. |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Portland | P.L. Crooks & Co., Inc. |
| Utah | Salt Lake City | H.H. Nielsen |
| Washington | Seattle | A.H. Cox & Co. |
| | Spokane | Andrews Equipment Service |
| | Tacoma | A.H. Cox & Co. |
| | Wenatchee | " " |

THOR POWER TOOL COMPANY
175 N. State Street
Aurora, Illinois

PRODUCTS: Paving Breakers; Rock Drills; Clay Diggers; Trench Diggers; Backfill Tampers; Vagon Drills; Sump Pumps; Cement Hammers; Associated Mining and Contractors' Tools.

FACTORY BRANCHES

| | | | |
|------------|---------------|---------|----------------|
| California | Los Angeles | Manager | W.J. Laughlin |
| | San Francisco | " " | E.C. O'Connell |
| Colorado | Denver | " " | C.H. Gabriel |
| Washington | Seattle | " " | R.J. Horrocks |

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| | Kingman | N.R. Dunton Mining Mach. Co. |
| California | Bishop | Black's Machine Shop |
| | Los Angeles | Smith-Booth-Usher Co. |
| | " " | Mine & Mill Mach. Co., Inc. |
| | Redding | Gerringer Steel & Supply Co. |
| Colorado | San Francisco | Edward R. Bacon Co. |
| Idaho | Denver | Western Machinery Co. |
| | Boise | Western Equipment Co. |
| | " " | The Sawtooth Company |
| Montana | Coeur d'Alene | Gardner Supply Co. |
| | Butte | Butte Machinery Co. |
| | Great Falls | Central Machinery Co. |
| | Helena | Montana Powder & Equipment Co. |
| | Sidney | Tractor & Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Medford | Cal-Ore Mach. Co., Inc. |
| | Portland | Nelson Equipment Co. |
| Utah | Midvale | Feenoughly Machinery Co. |
| | Salt Lake City | Utah Bit & Steel Co. |
| Washington | Seattle | Gallagher Company |
| | " " | A.H. Cox & Co. |
| | " " | Yukon Equipment Co. |
| Wyoming | Spokane | Western Machinery Co. |
| | Casper | Casper Supply Co. |
| | Cheyenne | Worham Machinery Co. |

TIMKEN ROLLER BEARING CO., THE
Canton 6
Ohio

PRODUCTS: Tapered Roller Bearings; Removable Rock Bits; Fine Alloy Steel and Seamless Steel Tubing.

BRANCHES

| | | |
|------------|---------------|-----------------------|
| California | Los Angeles | 2727 South Flower St. |
| | San Francisco | 1452 Bush Street |
| Washington | Seattle | 305 Ninth Ave. North |

TRACKSON COMPANY (A Wholly Owned Subsidiary of
333 S. Chase Ave. Caterpillar Tractor Co.)
Milwaukee, Wisconsin

PRODUCTS: Included with listing under Caterpillar Tractor Co.

DISTRIBUTORS

SAME AS CATERPILLAR DEALERS

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

TRACTOMOTIVE CORPORATION
County Line Road
Deerfield, Illinois

PRODUCTS: Crawler Mounted Shovels (Tractor); Rubber Tired Loaders; Side Booms; Rippers; Shoulder Maintainers; Grader Mounted Loaders; Various Attachments.

DISTRIBUTORS

All Tractomotive products distributed through Allis-Chalmers Manufacturing Co., Industrial tractor dealers.

TRAILMOBILE, INC.
901 Gilman Street
Berkeley 10, California

PRODUCTS: Commercial Trailers; Truck Bodies.

FACTORY BRANCHES

| | | | |
|------------|----------------|--------------------|---------------|
| California | Los Angeles | 1765 E. 46th St. | Wayne Hill |
| | Oakland | 640 Hegenberger Rd | Wm. A. Grange |
| | Sacramento | 510 N. 12th St. | A. W. Smith |
| | San Francisco | 2030 Third St. | Wm. A. Boykin |
| Utah | Salt Lake City | 365 W. 1370 So. | J. W. Reuter |

OTHER FACTORY PERSONNEL

| | | | |
|------------|----------|---------------|----------------------------|
| California | Berkeley | C. L. Hoebner | West Coast Gen. Mgr. |
| " | " | Alan Waddell | West Coast Div. SM |
| " | " | E. G. Weiss | West Coast Div. Plant Mgr. |

DISTRIBUTORS

| | | |
|------------|----------|--|
| Arizona | Phoenix | Kenneth S. Donnelly, Resident Salesman |
| Oregon | Portland | Riddell Trailer & Equipment Co. |
| Washington | Seattle | " " " " |
| | Spokane | Critzer Equipment Co. |

PARTS & SERVICE

| | | | |
|------------|-----------|---------------|--------------------|
| California | San Diego | 405-12th Ave. | Kolbeck Auto Works |
|------------|-----------|---------------|--------------------|

TRANSPORT TRAILERS, INC.
1200-34 Twelfth St., S.W.
Cedar Rapids, Iowa

PRODUCTS: Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------|
| Arizona | Phoenix | Arizona Cedar Rapids Co. |
| | Tucson | F. Ronschdt Hardware Co. |
| California | Los Angeles | Cook Bros. Equipment Co. |
| | Oakland | The Brose Company |
| Colorado | Denver | H. W. Moore Equipment Co. |
| Idaho | Boise | Western Equipment Co. |
| Montana | Billings | Montana Powder & Equipment Co. |
| | Helena | " " " " |
| Nevada | Reno | Sierra Machinery Co. |
| Oregon | Portland | Fennaguth Machinery Co. |
| Utah | Salt Lake City | Arnold Machinery Co. |
| Wyoming | Cheyenne | Kereml Tractor & Equipment Co. |

TRAYLOR ENGINEERING & MANUFACTURING CO.
10th and Mill Street
Allentown, Pennsylvania

PRODUCTS: Gyrateory, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron & Grizzly Feeders.

FACTORY BRANCH OFFICE

| | | | |
|------------|---------------|--------------|-------------------|
| California | San Francisco | Sharon Bldg. | D. J. Kramm, Mgr. |
|------------|---------------|--------------|-------------------|

DISTRIBUTORS

| | | |
|--------|----------------|------------------------|
| Oregon | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | National Equipment Co. |

TRUSCON STEEL DIVISION
Republic Steel Corporation
Youngstown 1, Ohio

PRODUCTS: Steel Windows (all types); Residential Interior Steel Doors; Industrial and Hangar Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldeck Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Stressless Tensioning Units; Welded Wire Fabric; Steel Poles and Radio Towers.

WESTERN OFFICES

| | | | |
|------------|---------------|---------------------|--------------------------|
| Arizona | Phoenix | 221 SE Camelback Rd | R. A. Johnson, Jr., Mgr. |
| California | Los Angeles | 5424 Slauson Ave. | N. J. Cavalier, P. C. M. |
| | San Francisco | 16 Reale Street | Hall Waller, Sls. Mgr. |
| Oregon | Portland | 2139 N. Kerby Ave. | C. W. Anderson, S. M. |
| Washington | Seattle | 107 W. Harrison St. | Norman Field, S. M. |

WESTERN CONSTRUCTION serves the specialized needs and interests of 13,000 members of the engineering construction industry in the eleven Western states and Alaska.

TUCKER SNO-CAT CORPORATION
P.O. Box 888
Medford, Oregon

PRODUCTS: Sno-Cats; Sno-Kittens; Sno-Trailers.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------|
| Colorado | Denver | The H. W. Moore Equipment Co. |
| California | Los Angeles | Calaver Corp. |
| | San Francisco | The F. W. D. Pacific Co. |
| Utah | Salt Lake City | The Lang Co. |
| Washington | Seattle | Yukon Equipment, Inc. |

TWIN DISC CLUTCH COMPANY
1328 Racine Street
Racine, Wisconsin

PRODUCTS: Friction Clutches (Mechanically and Air Actuated); Power Take Offs; Reduction Gears; Fluid Couplings; Hydraulic Torque Converters; HYDRO-SHEAVE DRIVE; HYDRO-WYND DRIVE; Two-Speed Transmissions; Reverse Gears.

FACTORY BRANCHES

| | | |
|------------|-------------|-------------------------|
| California | Los Angeles | 2950 Leonis Blvd. |
| Washington | Seattle | 820 First Avenue, South |

DISTRIBUTORS

AUTHORIZED PARTS STATIONS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Bakersfield | California Truck & Ind. Equip. Co. |
| | San Francisco | Charles W. Carter Co. |
| Colorado | Denver | Industrial Equipment Co., Inc. |
| Oregon | Portland | Hydra-Lines, Inc. |
| Utah | Salt Lake City | Diesel Electric Service & Supply Co. |
| Wyoming | Casper | Gehring Equipment Co. |

AUTHORIZED HYDRAULIC UNIT SERVICE STATIONS

| | | |
|------------|-------------|------------------------|
| California | Los Angeles | Charles W. Carter Co. |
| Oregon | Eugene | Mill-Log Equipment Co. |
| Washington | Seattle | Powers Machine Co. |

AUTHORIZED HYDRO-SHEAVE - HYDRO-WYND DEALERS

| | | |
|------------|---------------|------------------------------------|
| Arizona | Phoenix | McConkey-Docker & Co. |
| California | Bakersfield | California Truck & Ind. Equip. Co. |
| | Los Angeles | Charles W. Carter Co. |
| | San Francisco | " " " " |
| | Huntington Pk | Charles A. Fowler Co. |
| Colorado | Denver | Nicholas DiArcy, Jr. |
| Oregon | Portland | Industrial Equipment Co., Inc. |
| Washington | Seattle | Power Transmission Products |
| | Spokane | Chain Gear, Inc. |
| | | Bilco, Inc. |

ULRICH PRODUCTS CORPORATION
Roscoe
Illinois

PRODUCTS: Elevating Graders; Road Wideners; Snow Blowers; Tractor Loaders for D-2 & D-4 Caterpillar Tractors.

DISTRIBUTORS

Same as for Caterpillar Tractor Co.

UNION WIRE ROPE CORP.
21st and Manchester Ave.
Kansas City 26, Missouri

PRODUCTS: Wire Rope; High Carbon Wire and "Tuffy" Slings.

FACTORY BRANCHES

| | | | |
|------------|---------------|------------------|----------------|
| California | N. Sacramento | District Manager | J. L. Redford |
| Colorado | Denver | " " | M. B. Riley |
| Oregon | Portland | " " | C. D. Schooley |

UNIT CRANE & SHOVEL CORP.
6411 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Cranes; Shovels; Crawler and Mobile and Truck Mounted.

DISTRICT SALES REPRESENTATIVE

| | | | |
|------------|------------|-------------------|--------------|
| California | Sacramento | 4440 Cabrillo Way | Herman Combs |
|------------|------------|-------------------|--------------|

DISTRIBUTORS

| | | |
|------------|---------------|--------------------------------------|
| Arizona | Phoenix | The O. S. Stapley Co. |
| California | Fresno | Moore Equipment Co. |
| | Los Angeles | Brown-Bells Industrial Equipment Co. |
| | N. Sacramento | Moore Equipment Co. |
| | Oakland | Bay Cities Equipment, Inc. |
| | Redding | Moore Equipment Co. |
| | Stockton | " " " " |
| Colorado | Denver | Air Rentals, Inc. |
| Montana | Billings | Seltz Machinery Co., Inc. |
| | Great Falls | " " " " |
| | Missoula | Miller Machinery Co. |

Continued on next page

C. I. T. specializes in financing equipment for Distributors and Contractors

UNIT CRANE & SHOVEL CORP. (CONTINUED)

| | | |
|------------|----------------|----------------------------------|
| Nevada | Reno | Moore Equipment Co. |
| Oregon | Albany | Howard-Cooper Corp. |
| | Central Point | " |
| | Coquille | " |
| | Eugene | " |
| | Newport | " |
| | Roseburg | " |
| Utah | Salt Lake City | Rasmussen Equipment & Supply Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Inland Diesel & Machinery Co. |

UNIT MANUFACTURING COMPANY
1229 Harmon Street
Minneapolis 3, Minnesota

PRODUCTS: Hydraulic Cylinders; Unit Utility Hoists and "3 in 1" Lift.

U.S. SPRING & BUMPER COMPANY
Division of Rheem Manufacturing Co.
4051 Alcoa Street
Los Angeles 54, California

PRODUCTS: U.S. Metal Plate Highway Guard Rail.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Phoenix | Arizona Hardware Co. |
| California | Oakland | The Highway Hardware Products Co. |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Sterling Equipment |
| Montana | (Denver) | Colorado Builders Supply Co. |
| Nevada | Sparks | Paul Tholl |
| New Mexico | (Denver) | Colorado Builders Supply Co. |
| Oregon | Portland | Contractors Equipment Corp. |
| Utah | Salt Lake City | C.H. Jones Equipment Co. |
| Washington | Seattle | Jack Sehlberg Equipment Co. |
| Wyoming | (Denver) | Colorado Builders Supply Co. |

UNIVERSAL ENGINEERING CORPORATION
624 C Avenue N.W.
Cedar Rapids, Iowa

PRODUCTS: Portable, Semi-Portable, Stationary Crushing-Screening-Washing and Loading Equipment for Rock, Gravel, Sand and Aglime; Ore Crushing and Handling Equipment; Asphalt Plants.

DISTRICT REPRESENTATIVES

| | | | |
|------------|-------------|------------------|--------------------|
| California | N.Hollywood | 12147 Huston St. | Claude W.Cadarette |
| Colorado | Denver | 2800 Newport St. | Alex Ainlay |

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------|
| Arizona | Phoenix | Arizona Equipment Sales, Inc. |
| California | Fresno | Moore Equipment Co., Inc. |
| | Los Angeles | Colever Corporation |
| | Redding | Moore Equipment Co. |
| | Sacramento | " |
| | San Francisco | FWD Pacific Co. |
| | Stockton | Moore Equipment Co. |
| Colorado | Denver | Western Machinery Co. |
| | " | McKelvy Machinery Co. |
| Idaho | Boise | Cerl R.Burl Co. |
| Montana | Helena | Montana Powder & Equipment |
| Nevada | Reno | Moore Equipment Co. |
| New Mexico | Albuquerque | J.D. Grogins Co. |
| Oregon | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Modern Machinery, Inc. |
| | Spokane | " |
| Wyoming | Cheyenne | Mountain Equipment Co. |

UNIVERSAL FORM CLAMP CO.
1238 North Kostner Ave.
Chicago 51, Illinois

PRODUCTS: Uni-Form Panels; Spiroloc Form Ties; Twistee Form Ties; Form Clamps; Anchoring Devices; Reinforcing Bar Supports.

FACTORY BRANCHES

| | | | |
|------------|-------------|---------------|---------------|
| California | Los Angeles | Manager | Richard Allen |
| | San Leandro | " | " |
| | " | Asst. Manager | Norm Turner |

DISTRIBUTORS

| | | |
|------------|----------|------------------------------|
| Arizona | Phoenix | Superior Equipment Co. |
| Colorado | Denver | K.C. Construction Supply Co. |
| Oregon | Portland | McCracken-Ripley Co. |
| Washington | Seattle | Row Lake Equipment Co. |
| | Spokane | Construction Equipment Co. |

WESTERN CONSTRUCTION EDITORIAL MATERIAL
SERVES ALL THE WEST — IT IS BALANCED GEOGRAPHICALLY
AND JOB-WISE OVER THE ELEVEN WESTERN STATES AND ALASKA

UNIVERSAL MANUFACTURING CORP.
Zelienople
Pennsylvania

PRODUCTS: Ezebilt Steel-Panel Scaffolding and Scaffold-form Shoring; Ladsaf Ladder-Panel Scaffolding; Endlok Pipe-and-Clamp Scaffolding; Sidewalk Bridging; Ledger Brackets; Post-Shores; Jacks and Trestles; American-Tubular Elevator Towers; American-Universal Bleachers.

DISTRIBUTORS

| | | |
|------------|----------------|--|
| California | Burlingame | Ezebilt Scaffolding Co. |
| | Los Angeles | American-Universal of California, Inc. |
| Colorado | Denver | The Universal Company |
| Utah | Salt Lake City | Contractors Equipment & Supply Co. |
| Washington | Seattle | Universal Equipment Co. |

UTILITY TRAILER MANUFACTURING CO.
3900 Medford Street
Los Angeles 36, California

PRODUCTS: Trailers; Vans; Flats; Lowbeds; Tankers; Tiltbeds; Reel Carriers with Attachments.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| Arizona | Phoenix | Utility Trailer Sales Co. |
| California | Fresno | " |
| | Los Angeles | " |
| | Sacramento | " |
| | San Diego | " |
| | San Francisco | " |
| Oregon | Portland | Utility Trailer Sales & Equipment Co. |
| Utah | Salt Lake City | " |
| Washington | Seattle | Utility Trailer & Equipment Co. |
| | Spokane | Alloy Manufacturing Co. |

VIBER COMPANY
720 South Flower St
Burbank, California

PRODUCTS: Concrete Vibrators— Interchangeable Lines of Internal Vibrators, Electric, Pneumatic and Gasoline Engine Driven; Laboratory Electric; Heavy Duty Electric and Pneumatic; Full Depth Internal Paving; Electric and Pneumatic External.

VIBRO-PLUS PRODUCTS, INC.
54-11 Queens Boulevard
Woodside 77, New York

PRODUCTS: Concrete Vibrators; Vibrating Feeders; Vibratory Soil Compactors.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------------|
| California | Los Angeles | Gridley Equipment Co. |
| | Oakland | Bay Cities Equipment Co., Inc. |
| | San Diego | Hudson Corporation |
| | Stockton | Moore Equipment Co., Inc. |
| Colorado | Denver | Air Rentals, Inc. |
| Nevada | " | Pioneer Equipment Co. |
| New Mexico | Albuquerque | The Harry Cornelius Co. |
| Oregon | Portland | Andrews & Andrews Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Universal Equipment Co. |
| | Spokane | Blackwell-Coleman Equipment Co., Inc. |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

VICTOR EQUIPMENT COMPANY
844 Folsom Street
San Francisco 7, Calif.

PRODUCTS: Flame Cutting and Welding Equipment, Accessories and Supplies; Hard-Surfacing Rods for all Purposes; Pneumatic Controls; High Pressure Gas Discharging Manifolds; Medical Gas Therapy Equipment; Super-Tital Blasting Nozzles.

FACTORY BRANCHES

| | | | |
|------------|-------------|-------------------|----------------|
| California | Fresno | Al Drelich, Jr. | Manager |
| | Los Angeles | E.O. Williams | Vice President |
| | " | Jack Spence | " |
| | Oakland | Richard Heinemann | Manager |
| | Sacramento | Richard Labagh | " |
| | San Diego | Herb Maynard | " |
| | Ventura | R.J. Campbell | " |

DISTRIBUTORS

| | | |
|----------|----------------|---------------------------------|
| Arizona | Phoenix | Arizona Welding Equipment Co. |
| | " | Consolidated Welding Supply Co. |
| | Tucson | Aweco Supply Co. |
| Colorado | Craig | U.S. Welding Works |
| | Denver | " |
| | Grand Junction | Western Slope Drayage Co. |
| | Pueblo | J.F. Demman Supply Co. |
| Idaho | Boise | The Sawtooth Co. |
| | " | Spencer Supply Co. |
| | Pocatello | Paul Roberts |
| | Twin Falls | " |

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

VICTOR EQUIPMENT CO. (CONTINUED)

| | | |
|------------|----------------|---------------------------|
| Montana | Billings | General Distributing Co. |
| " | Butte | Butte Machinery Co. |
| " | " | General Distributing Co. |
| " | Great Falls | " |
| " | " | Mike's Welding Supply Co. |
| Nevada | Poplar | Poplar Supply Co. |
| " | Elko | A-D Machinery Co. |
| " | Fallon | Motor Supply Co. |
| " | Reno | Nevada Rental Sales Co. |
| " | " | Sierra Oxygen Co. |
| New Mexico | Albuquerque | Industrial Supply Co. |
| Oregon | Eugene | Eugene Welders Supply Co. |
| " | " | J.E.Hazeltine & Co. |
| " | Medford | Industrial Air Products |
| " | Portland | " |
| " | " | J.E.Hazeltine & Co. |
| Utah | Salt Lake City | The Gallagher Co. |
| " | " | The Webb Co. |
| Washington | Kennewick | Industrial Air Products |
| " | Seattle | J.E.Hazeltine & Co. |
| " | " | Industrial Air Products |
| " | " | Western Oxygen, Inc. |
| " | Spokane | Gibson Welding Supplies |
| " | " | J.E.Hazeltine & Co. |
| " | " | Industrial Air Products |
| Wyoming | Yakima | " |
| " | Worldand | Worldand Oxygen Co. |

VULCAN IRON WORKS, INC.

327 N. Bell Avenue
Chicago 12, Illinois

PRODUCTS: Steam or Air Operated Pile Hammers; Drop Pile Hammers; Steam or Air Operated Pile Extractors; Pile Driving Accessories.

DISTRIBUTORS

| | | |
|------------|----------------|------------------------------|
| Arizona | (Salt Lake) | The Gallagher Co. |
| California | Los Angeles | Herron, Rickard & McCone Co. |
| " | San Francisco | Coast Equipment Co. |
| Colorado | Denver | Hendrie & Bolthoff Co. |
| Idaho | (Salt Lake) | The Gallagher Co. |
| Nevada | (Salt Lake) | " |
| New Mexico | Albuquerque | Hendrie & Bolthoff Co. |
| Oregon | Portland | Balzer Machinery Co. |
| Utah | Salt Lake City | The Gallagher Co. |
| Washington | Seattle | A.H.Cox & Co. |
| Wyoming | (Denver) | Hendrie & Bolthoff Co. |

WALTER MOTOR TRUCK CO.

1001 Irving Avenue
Ridgewood, L.I. 27, New York

PRODUCTS: Four Wheel Drive Trucks; Wrecker and Utility Trucks; Snow Plow Trucks; Tractor Trucks; Dump Trucks.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Los Angeles | Shaw Sales & Service Co. |
| " | San Francisco | Edward R. Bacon Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Southern Idaho Equipment Co. |
| Montana | Butte | Robert's Truck & Parts Supply |
| Oregon | Portland | Cramer Machinery Co. |
| Utah | Salt Lake City | Lund Machinery Co. |
| Washington | Spokane | Western Machinery Co. |

WARREN POWER TOOLS, INC.

P.O. Box 168
Danbury, Connecticut

PRODUCTS: Portable Gasoline Breakers; Portable Rock Drills and Gasoline Operated Rammers.

WAUKESHA MOTOR COMPANY

1001 West St. Paul Avenue
Waukesha, Wisconsin

PRODUCTS: Gas, Gasoline, and Diesel Engines and Power Units.

FACTORY BRANCH

California Los Angeles Manager A.G. Mulkey

DISTRIBUTORS

| | | |
|------------|----------------|--|
| Arizona | Phoenix | Waukesha SW Engine-Parts Mfg. Co. |
| " | Emeryville | Waukesha Pacific Equipment Co. |
| California | Eureka | B & S Supply Co. |
| " | Los Angeles | Fralzer Wright Co. |
| Colorado | Denver | Waukesha Engine & Equipment Co. |
| Idaho | Boise | D.N. Nordling Parts Co. |
| Montana | Billings | Hines-Bearings & Ind. Supply Co. (Sub-Div) |
| New Mexico | Hobbs | Waukesha Sales & Service, Inc. |
| " | Farmington | Waukesha Engine & Equipment Co. |
| Oregon | Portland | Truck & Industrial Equipment Co. |
| Utah | Salt Lake City | Korvel and Love, Inc. |
| " | Springville | " |
| Washington | Seattle | Northwest Industrial Equipment Co. |
| Wyoming | Casper | Waukesha Engine & Equipment Co. |

WAUSAU IRON WORKS

Wausau
Wisconsin

PRODUCTS: Snow Plows for Trucks, Graders; Wheel Tractors; JARP Pump-Pac Hi-Pressure Electric Hydraulic Power Unit to Replace Hand Pump Applications; Material Spreaders; Hydra Clutch Pumps.

DISTRIBUTORS

| | | |
|------------|---------------|--------------------------------|
| Arizona | Phoenix | Arizona-Cedar Rapids Co. |
| California | Los Angeles | Callaver Corporation |
| " | San Francisco | F.W.D. Pacific Co. |
| Colorado | Denver | Liberty Truck & Parts Co. |
| Idaho | Boise | Feenaughty Machinery Co. |
| " | Idaho Falls | Southern Idaho Equipment Co. |
| Montana | Helena | Steffeck Equipment Co. |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| " | " | N.C. Ribble Co. |
| " | " | The Myers Company |
| Oregon | Portland | Feenaughty Machinery Co. |
| Washington | Seattle | " |
| " | Spokane | " |
| Wyoming | Casper | Studer Tractor & Equipment Co. |

WAYER IMPACTOR, INC.

168 Hosack Street
Columbus 7, Ohio

PRODUCTS: Model D-25 Impactor.

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------|
| Arizona | Phoenix | Western Machinery Co. |
| California | Pasadena | Beede, Inc. |
| Nevada | Reno | Sierra Machinery Co. |
| Texas | El Paso | Equipment Supply Co. |
| Utah | Salt Lake City | H.H. Nielsen Co. |

WAYNE MANUFACTURING CO.

1201 E. Lexington
Pomona, California

PRODUCTS: Motor Street Sweepers; Mechanical Leaf-Loaders.

DISTRIBUTORS

| | | |
|------------|----------------|--------------------------------------|
| Arizona | Phoenix | State Tractor & Equipment Co. |
| California | Los Angeles | Brown-Revis Industrial Equipment Co. |
| " | San Francisco | Western Traction Co. |
| Colorado | Denver | Ray Corson Machinery Co. |
| Idaho | Boise | Feenaughty Machinery Co. |
| Montana | Billings | Industrial Equipment Co. |
| " | Great Falls | Northmont Equipment Co. |
| " | Kellispell | Treasure State Equipment Co. |
| Nevada | Reno | General Equipment Co. |
| New Mexico | Albuquerque | J.D. Coggins Co. |
| Oregon | Portland | Feenaughty Machinery Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Feenaughty Machinery Co. |
| " | Spokane | " |
| Wyoming | Casper | Studer Tractor Co. |

WAYNE SHOVEL & CRANE DIVISION

AMERICAN STEEL DREDGE CO., INC.
2511 Taylor Street
Fort Wayne, Indiana

PRODUCTS: Cranes; Shovels; Draglines; Dredges; Land Clearing Equipment.

DISTRICT REPRESENTATIVE

California Los Angeles 437 Douglas Bldg. Con Hjalmarson
257 So. Spring St.

DISTRIBUTORS

| | | |
|------------|-----------|----------------------------------|
| Arizona | (El Paso) | E.D. Flournoy |
| California | El Monte | Bronson Equipment Co. |
| " | Oakland | C.H. Grant Co. |
| Colorado | Denver | Constructors Equipment Co., Inc. |
| Idaho | (Spokane) | Blackwell-Coleman Equipment Co. |
| Nevada | (Oakland) | C.H. Grant Co. |
| New Mexico | (El Paso) | E.D. Flournoy |
| Oregon | Portland | Balzer Machinery Co. |
| Washington | Seattle | Air-Mac, Inc. of Washington |
| " | Spokane | Blackwell-Coleman Equipment Co. |
| Wyoming | (Denver) | Constructors Equipment Co., Inc. |

Contractors, project and design engineers, and construction superintendents are among the highly-select group throughout the West which makes up the readers of WESTERN CONSTRUCTION. You can tell this group about what you have to sell in the pages of WESTERN CONSTRUCTION, the one publication that covers ALL the West.

C. I. T. finances installment sales of equipment for many Distributors

WELLMAN ENGINEERING CO.
Wellman Williams Bucket Division
7000 Central Avenue
Cleveland 4, Ohio

PRODUCTS: Buckets, Clamshell and Dragline; Grapples, Wood and Stone.

DISTRIBUTORS

| | | |
|------------|----------------|----------------------------------|
| Arizona | Phoenix | Lee Redman Equipment Co. |
| California | Los Angeles | Electric Tool & Supply Co. |
| | San Francisco | Coast Equipment Co. |
| Colorado | Denver | McCoy Company |
| Idaho | Boise | Western Equipment Co. |
| Montana | Missoula | Westmont Tractor & Equipment Co. |
| | Sidney | Tractor & Equipment Co. |
| New Mexico | Albuquerque | R.L. Harrison Co. |
| Oregon | Portland | P.L. Crooks Co., Inc. |
| Utah | Salt Lake City | Leng Company |
| Washington | Seattle | Clyde Equipment Co. |
| | Spokane | Construction Equipment Co. |

THE S.K. WELLMAN COMPANY
200 Ebert Road
Bedford, Ohio

PRODUCTS: Velvetouch All-Metal Clutch Plates, Facings and Brake Linings for Automotive, Tractor and Industrial Equipment.

FACTORY BRANCHES

| | | | |
|------------|---------------|------------------|---------------------|
| California | San Francisco | 424 Bryant St. | J.S. Mitchell, Mar. |
| | Los Angeles | 240 W. 21st St. | F.L. Morgan, Mar. |
| Oregon | Portland | 636 NW 16th Ave. | |

WESTERN DISTRICT MANAGER

| | | | |
|------------|-------------|-----------------|------------|
| California | Los Angeles | 240 W. 21st St. | G.O. Abell |
|------------|-------------|-----------------|------------|

WEST COAST MACHINERY, INC.
1801 E. Charter Way
Stockton 6, California

PRODUCTS: Road and Farm Machinery; Lift Trucks; Orchard Ridders; Disc Harrows; Bulldozers; Tillage-graders; Angle loaders; Power Control Units; Electric Car (Golf, Pickup, Trailer).

DISTRIBUTORS

| | | |
|------------|---------------|----------------------------|
| California | Fresno | Moore Equipment Co., Inc. |
| | N. Sacramento | |
| | Oakland | Bay Cities Equipment, Inc. |
| | Redding | Moore Equipment Co., Inc. |
| | Stockton | " " |
| Montana | Kalispell | Mountain Tractor Co. |
| | Missoula | " " |
| Nevada | Reno | Moore Equipment Co., Inc. |
| Washington | Seattle | Ster Machinery Co. |

WHITE MANUFACTURING COMPANY
1227 West Beardsley Avenue
Elkhart, Indiana

PRODUCTS: Asphalt Plants; Asphalt Heating Kettles; Aggregate Drivers; Concrete Vibrators; Concrete Grinders; Concrete Trowlers; Kerosene Torches and Heaters.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Equipment Sales Co. |
| California | Los Angeles | The Gridley Equipment Co. |
| | Oakland | The Grose Co. |
| Colorado | Grand Junction | S & M Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Industrial Equipment Co. |
| | Great Falls | Normont Equipment Co. |
| Nevada | Reno | Sanford Tractor & Equipment Co. |
| New Mexico | Albuquerque | Contractors Equipment Co. |
| Oregon | Eugene | Howard-Cooper Corp. |
| | Portland | " " |
| Utah | Salt Lake City | The Leng Co. |
| Washington | Seattle | Howard-Cooper Corp. |
| | Spokane | Intermountain Equipment Co. |

WESTERN CONSTRUCTION COVERS THE ENTIRE WEST

And it is the one publication that does

Western Construction is read by more contractors and engineers, the men who buy equipment for Western jobs, than any other construction magazine. Why not present your sales message in this magazine? Western contractors work all over the West as a region, disregarding state lines, and Western Construction follows them wherever they go. What makes the West different from any other section of the country? Western job sites are often remote and hard to get to, projects are larger and more complex, and contractors must save on labor costs. Therefore, the number of pieces of equipment used on each job is higher in the West. If your equipment saves labor, you can sell it in the West.

WHITEMAN MANUFACTURING COMPANY
3249 Castles Avenue
Los Angeles 39, California

PRODUCTS: Concrete Construction Equipment.

DISTRIBUTORS

| | | |
|------------|----------------|-------------------------------------|
| Arizona | Phoenix | Baker Thomas Lime & Cement Co. |
| California | El Centro | W-K Equipment Co. |
| | Los Angeles | Brown-Bell Industrial Equipment Co. |
| | " " | Electric Tool & Supply Co. |
| | " " | Essick Machinery Co. |
| | " " | Garlinghouse Bros. |
| | " " | Gridley Equipment Co. |
| | " " | Smith-Booth-Usher Co. |
| | Porterville | Porterville Farm Implement Co. |
| | San Bernardino | W-K Equipment Co. |
| | San Francisco | Edward R. Bacon Co. |
| | " " | W.J. Burke Co. |
| | San Diego | Southern Equipment & Supply Co. |
| | Santa Ana | Blystone Equipment Co. |
| Colorado | Denver | Western Machinery Co. |
| Idaho | Boise | Gate City Steel |
| | Idaho Falls | Parkinson Tractor Co. |
| | Pocahontas | Western Machinery Co. |
| Montana | Billings | Midland Implement Co. |
| | Butte | Wells-Perry Machinery Co. |
| | Great Falls | " " |
| | Helena | Steffeck Equipment Co. |
| Nevada | Las Vegas | Inland Service & Supply Co. |
| | Reno | Sanford Tractor & Equipment Co. |
| | " " | Sierra Machinery Co. |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Andrews & Andrews |
| Utah | Salt Lake City | C.H. Jones Equipment Co. |
| Washington | Seattle | Ster Machinery Co. |
| | Spokane | " " |
| Wyoming | Casper | Kerem Tractor & Equipment Co. |
| | Cheyenne | " " |

THE WHITE MOTOR COMPANY
842 E. 79th Street
Cleveland 1, Ohio

PRODUCTS: White Motor Trucks and Buses - Gasoline and Diesel; White Industrial Engines.

FACTORY BRANCHES

| | | | |
|------------|---------------|----------------|---------------|
| California | Los Angeles | Branch Manager | L.A. Fleener |
| | San Francisco | " " | H.P. Strother |
| Colorado | Denver | " " | R.W. Cochran |
| Oregon | Portland | " " | H.D. Collins |

PACIFIC COAST REGIONAL OFFICE

| | | | |
|------------|---------------|------------------|----------------|
| California | San Francisco | Regional Manager | W.D. Patterson |
|------------|---------------|------------------|----------------|

DISTRIBUTORS

| | | |
|------------|----------------|-----------------------------------|
| Arizona | Kingman | Williston & Ireland |
| | Phoenix | Truck Equipment Co. |
| | Willcox | 80 Truck Stop |
| California | Bakersfield | Southern Garage |
| | Burbank | George Cooper Co. |
| | Eureka | De Bon Motor Co. |
| | Fresno | Fresno Trailer Co. |
| | Long Beach | Joe Gill Motor Co. |
| | Madera | Anderson's Truck Terminal |
| | Napa | Regalla Machine Works |
| | Oakdale | P.E. Van Pelt, Inc. |
| | Oakland | White Truck Sales |
| | Ontario | Cochran & Nichols, Inc. |
| | Petaluma | John L. Boitano |
| | Redding | William A. Byttle |
| | Riverside | Briggs & Elliott |
| | Sacramento | White Truck & Equipment Co. |
| | San Diego | J.R. Townsend Co., Inc. |
| | San Jose | White Truck Sales |
| | Santa Rosa | The Miller Motor Co. |
| | Stockton | Garvey Truck Service |
| | Woodland | Ochoa Bros. |
| Colorado | Durango | South Western Motor Co. |
| | Grand Junction | W.R. Hall Sales & Service |
| Idaho | Boise | Boise White Truck & Equipment Co. |
| | Lewiston | Henderson Motors |
| | Roberts | Jackson Auto Service |
| Billings | Billings | White Trucks |
| Montana | Great Falls | Terminal Sales, Inc. |
| | Helena | Frontier Motors, Inc. |
| | Kalispell | Kalispell Service Co. |
| | Lewiston | Central Motor Sales |
| | Miles City | Walters Repair Shop |
| | Missoula | Taber White Truck Co. |
| | Wolf Point | Taylor Motor Company |
| Nevada | Reno | Sleeve Truck & Trailer Co. |
| New Mexico | Albuquerque | Inland White Truck Co. |
| | Carlsbad | H.T. Page |
| Oregon | Albany | Oregon Truck Sales, Inc. |
| | Coos Bay | Harbor Diesel & Supply Co. |
| | Eugene | Gunderson Bros. Engineering Corp. |
| | Medford | Wilham Parts & Equipment Co. |
| Utah | Cedar City | Jones Crawford Motor Co. |
| | Logan | Transport Motor Co., Inc. |
| | Salt Lake City | Lindner & Wood White Motor Sales |
| Washington | Raymond | Ed Pederson Sales & Service |
| | Seattle | Fazool Motors, Inc. |

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE WHITE MOTOR COMPANY (CONTINUED)

| | | |
|------------|-----------|-------------------------------|
| Washington | Spokane | Jones White Truck Co. |
| | Tacoma | Tacoma White Trucks, Inc. |
| | Vancouver | McCoy Auto Company |
| Wyoming | Yakima | Du Bois White Trucks Co. |
| | Casper | Century White Truck Co., Inc. |
| | Laramie | Diamond Horseshoe |
| | Newcastle | Newcastle Equipment Co. |
| | Worldend | H. & S. Motor Company |

WICKWIRE SPENCER STEEL DIVISION
Palmer
Massachusetts

SEE LISTING OF COLORADO FUEL & IRON CORPORATION

WINTER-WEISS CO.
2201 Blake Street
Denver 2, Colorado

PRODUCTS: Low Bed Machinery Trailers; Contractors Bodies; Truck Mounted Rotary Drilling Rigs for Blast Holes; Rock Removal, etc.

FACTORY BRANCH

New Mexico Albuquerque Manager Morris G. Clark

WISCONSIN MOTOR CORPORATION
1910 S. 53rd Street
Milwaukee 46, Wisconsin

PRODUCTS: Air-Cooled Engines.

DISTRIBUTORS

| | | |
|------------|----------------|---------------------------------|
| Arizona | Phoenix | Pratt-Gilbert Hardware Co. |
| California | Emeryville | E.E. Richter & Son |
| | Los Angeles | Continental Sales & Service Co. |
| Colorado | Denver | Central Equipment Co. |
| Idaho | Idaho Falls | Arnold Machinery Co., Inc. |
| | (Portland) | Anderson Machinery |
| | (Spokane) | Star Machinery Co. |
| Montana | Billings | Midland Implement Co., Inc. |
| Nevada | (Emeryville) | E.E. Richter & Son |
| | (Los Angeles) | Continental Sales & Service Co. |
| | (Salt Lake) | Arnold Machinery Co., Inc. |
| New Mexico | Albuquerque | Central Supply Co. |
| Oregon | Portland | Anderson Machinery |
| Utah | Salt Lake City | Arnold Machinery Co., Inc. |
| Washington | Seattle | Star Machinery Co. |
| | Spokane | " " " |
| | (Portland) | Anderson Machinery |
| Wyoming | (Billings) | Midland Implement Co., Inc. |
| | (Denver) | Central Equipment Co. |
| | (Salt Lake) | Arnold Machinery Co., Inc. |

WOOLDRIDGE MANUFACTURING CO.
Hendy Avenue
Sunnyvale, California

PRODUCTS: Self-propelled Scrapers; Tractor-drawn Scrapers; Hauling Wagons; Power Control Units; Rippers; Bulldozers; Angling Dozers.

DIVISION MANAGER

California Sunnyvale Hendy Ave. Larry Crane

DISTRICT MANAGER

California Menlo Park 837 Roble Ave. R.W. Christofferson

DISTRIBUTORS

| | | |
|------------|-------------|-------------------------------|
| Arizona | Phoenix | Shriver Machinery Co. |
| California | San Diego | Hudson Equipment Co. |
| | Stockton | Stockton Iron Works |
| Colorado | Denver | McKelvy Machinery Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| Montana | Billings | Hall-Perry Machinery Co. |
| | Butte | " " " |
| | Great Falls | " " " |
| | Missoula | " " " |
| Nevada | Reno | Jenkins & Albright |
| New Mexico | Albuquerque | Leonard Motor Co., Inc. |
| Oregon | Medford | Cal-Ore Machinery Co., Inc. |
| Washington | Spokane | Inland Diesel & Machinery Co. |
| | Seattle | Washington Machinery Co. |

Construction methods in the West are different—therefore the reading requirements of Western contractors and engineers are different. To tell your sales story effectively in the West, put **WESTERN CONSTRUCTION** on your national schedule.

WORTHINGTON CORPORATION
Construction Equipment Division
Plainfield, New Jersey

PRODUCTS: Agitators; Backfill Tampers; Clay Diggers; Concrete Mixers; Paving Breakers; Compressors; Air Tools; Truck Mixers; Pavers; Pneumatic Placers; Rock Drills; Wagon Drills; Triplex Tampers; Construction Pumps.

REGIONAL SUPERVISORS

| | | | |
|------------|----------------|-------------------|-------------------|
| California | Los Angeles | 5075 Santa Fe Ave | W.F. Martin |
| | San Francisco | 224 Townsend St. | Charles R. Angell |
| Utah | Salt Lake City | 118 Motor Ave. | P.E. Wilson |
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| | Oakland | Mixermobile Sales & Service (Mixers) |
| | Sacramento | Inland Equipment Co. |
| | Stockton | Equipment Sales & Service Co. |
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| Idaho | Pocatello | Rocky Mountain Machinery Co. |
| Montana | Helena | Cal-Ore Engineering Works |
| | Missoula | Miller Machinery Co. |
| Nevada | Elko | A-D Machinery Co. |
| New Mexico | Albuquerque | Leonard Motor Co. |
| Oregon | Medford | Cal-Ore Machinery Co. |
| | Portland | Andrews & Andrews Equipment Co. |
| Utah | Salt Lake City | Rocky Mountain Machinery Co. |
| Washington | Seattle | Star Machinery Co. |
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| | Santa Rosa | John Sloss Company |
| Colorado | Denver | Colorado Builders Supply Co. |
| Idaho | Boise | Intermountain Equipment Co. |
| | Pocatello | " " " |
| Montana | Butte | Hall-Perry Machinery Co. |
| | Great Falls | " " " |
| New Mexico | Albuquerque | Contractors Equipment & Supply Co. |
| Oregon | Portland | Cramer Machinery Co. |
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| Washington | Seattle | Hatten Machinery Co. |
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CONTAINS . . .

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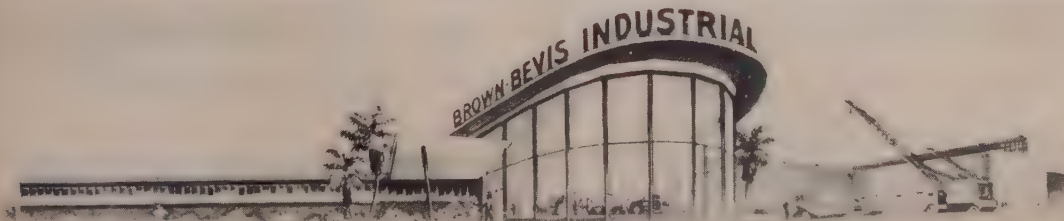
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Sears-Wells Machinery Co., Inc.

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| MARMON - HARRINGTON CO..... | All Wheel Drive Trucks |
| SCHONROCK TRAILER COMPANY..... | Cable Dump Trailers |
| SOUTHWEST WELDING COMPANY..... | Sheepfoot Rollers |
| SPEARS WELLS MACHINERY CO..... | Street Sweepers - Spreaders |

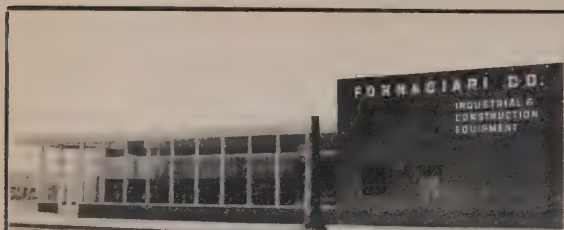
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The Bude Company
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Greenlee Tool Co.

Portable Earth Auger Co.
Kamo Tools, Inc.
McCulloch Motors Corp.
F.A.Nugler Company
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Peterson Engineering Co.
Star Machine Company
Templeton, Kenly & Co.
Woodings Verona Tool Works

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Office Manager...J.R.Linz

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General Manager...A.F.Garlinghouse
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McCulloch Motors Corp.
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(Pacific Division Headquarters & Plant),

2400 E.Imperial Highway / General Manager...T.J.Jeaneret

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MacWhite Company
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Sasoen Derrick Company
Schramm, Inc.
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Winslow Govt. Std. Scale Works
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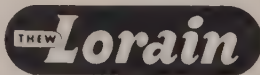
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| Sales Manager...Max O.Egerts | Service Manager...E.K.Smith |
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Asst.Ind.Sls.Mgr..B.H. Selman Asst.Ind.Sls.Mgr..Ray Smith
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Covina " Thurman Michaels PH: ED 2-4055
Lancaster " Hank Swenson PH: 400
Santa Ana " Barry Giffen PH: KI 2-4425
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it saves time

The manufacturers' index immediately precedes the manufacturers' section. It is arranged alphabetically and gives you at a glance the exact page number of any manufacturer in the Handbook. It's more convenient and will save you time.

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Manager.....J. M. Mow
Paris Manager.....A. C. Mow

Vice President...H. J. Mayer
Sales Manager....A. W. Ginther
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(Shovels)
Beebe Brothers
Clark Equipment Co., Construction
Machinery Division
Cleveland Trencher Co.
Dart Truck Company
Doug-Lynn, Inc.
Dreyer Vibrator Co.
Elmo Corporation
Electric Taper & Equipment Co.
Gar-Bro Manufacturing Co.
Good Roads Machinery Corp.
Hendrix Manufacturing Co.
The Jager Machine Co.
Les Superior Machine Co.
KA-MO Tools, Inc.
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 M.L. Murphy Corporation
 L.R. Murphy Company
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 P. L. H. Manufacturing Co.
 Quincy Compressor Co.
 Salem Tool Company
 Sanstom Manufacturing Co.
 Sargent Derrick Company
 Souerman Bros., Inc.
 Sward, Inc.
 Skoll Steel & Iron Works
 Tampa Manufacturing Co.
 Thor Power Tool Co.
 Timken Roller Bearing Co.
 J. J. Walton Company
 Winslow Govt. Std. Scale Wks., Inc.

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Regional Repr., Walter Humes

Representative, Wm. S. Pine

L.A. Factory VP., W.B. Hunn

Manager.....Wayne H. Hill

District Mar....P.G.Tyrrell

Manager.....Richard Allen

Manager.....A.G.Mulkey

74H

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257 So.Spring St.
District Repr....Con Hjalmerson

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District Mgr....G.O.Abell Branch Manager...F.L.Morgan

THE WHITE MOTOR COMPANY (Branch).....LOS ANGELES
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Branch Manager...Lon A.Fleener

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| Alumite Company | Luber-Finer, Inc. |
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| Blackhawk Manufacturing Co. | Sterling Motor Truck Co. |
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| Borg-Warner Co. | Timken Detroit Axle Co. |
| Braden Winch Co. | Timken Roller Bearing Co. |
| Brown-Lipe Co. | Wagner Brake Co. |
| Champion Spark Plug Co. | Warner Transmission Co. |
| Clark Transmission Co. | White Motor Co., Trucks & Busses |
| DeLuxe Filter Co. | Gasoline & Diesel |
| Eaton Axle Co. | White Industrial Engines |
| Fuller Transmission Co. | Wilkening Company |
| | World-Bestos Brake Lining Co. |

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Reg. Supervisor...W.F.Martin

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Manager.....Ted Klusman

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PH: 200
Manager.....E.Meadows

SEE MAIN OFFICE LISTING UNDER FRESNO

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FOOD MACHINERY & CHEMICAL CORP. PH: 1869
Manager.....Scott Ruby

SEE MAIN OFFICE LISTING UNDER FRESNO

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District Representative...D.W.Pedley

INSLY MANUFACTURING CORP.....MANHATTAN BEACH
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District Repr...D.J.Nelson

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Parts Manager...Ralph Blankinship Service Manager...John Wallace

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District Mgr....H.W.King

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Manager.....H.E.Zimmerman Sales Manager...E.A.Gray
Parts Manager...E.M.Hill Service Manager...M.L.Olsen

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| Be-Ge Manufacturing Co. | International Harvester Co. |
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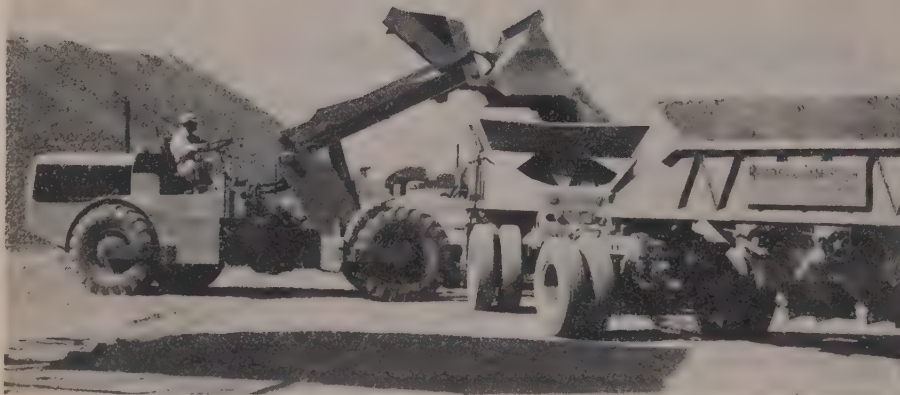
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| Dixon | Manager | Connie Meyer | PH: 8-2395 |
| Rio Vista | " | Jerry Morse | PH: 4-0100 |
| Woodland | " | Max Meyers | PH: 2-4637 |

LINES HANDLED

| | |
|--------------------------------|------------------------|
| American Tractor Equipment Co. | Fleco Company |
| Athey Products Corp. | Hyster Company |
| Austin Overshot Loaders | Marlin Machine Co. |
| Broderick & Bascom Rope Co. | Preco, Inc. |
| Caterpillar Tractor Co. | Skaft Steel & Iron Co. |
| John Deere Plow Co. | Ulrich Products Corp. |

WESTERN TRACTION CO. (Branch) SACRAMENTO
16th and American St. PH: 5-8551

Manager.....William Davis

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

FARMERS MERCANTILE COMPANY SALINAS
721 Abbott Street, P.O.Box 1131 PH: 7383

President.....J.H.Riley Vice President...James Fanoie
Manager.....Chas.T.Mathers Office Manager...Geo.T.Jameson

BRANCH OFFICE

| | | | |
|-------------|---------|-------------|------------|
| Watsonville | Manager | R.M.Johnson | PH: 4-3861 |
|-------------|---------|-------------|------------|

LINES HANDLED

| | |
|--------------------------------|----------------------------------|
| J.D.Adams Manufacturing Co. | Hughes Keenan Company |
| American Tractor Equipment Co. | International Harvester Co. |
| Bucyrus-Erie Company | Isaacson Iron Works(Std.Pullman) |
| Drott Manufacturing Co. | Schramm, Inc. |
| Harnischfeger Corporation | Seaman Motors, Inc. |

PRINGLE TRACTOR CO. SALINAS
110 Abbott Street PH: 8036

President.....Wm.B.Pringle Sales Manager...Mark Vucovich
Office Manager...Wm.H.Shervey Industrial Sales...James Gibb
Parts Manager...Frank Laidler Service Manager...Al Dutra

BRANCH OFFICES

| | | | |
|-------------|---------------|---------------|------------|
| King City | 905 Broadway | R.M.Wray | PH: 222 |
| Watsonville | Lake & Walker | L.D.Schonover | PH: 4-3885 |

LINES HANDLED

| | |
|-------------------------|------------------|
| Athey Products Corp. | Fleco Company |
| Be-De Manufacturing Co. | Hyster Company |
| Caterpillar Tractor Co. | Preco Company |
| John Deere Plow Co. | Traction Company |

ELECTRIC TOOL & SUPPLY CO., INC. (Branch) SAN BERNARDINO
867 Colton Avenue PH: 824-492

Manager.....H.W.Miller

SEE MAIN OFFICE LISTING UNDER LOS ANGELES

CONSTRUCTION MACHINERY CO. SAN CARLOS
1440 Cordillera Avenue PH: LYell 1-0510

District Repr....Edward R.Daley

CORONA TRACTOR CO. PH: 3-2421
930 Brittain Avenue PH: LY 3-2421

President.....Chas.W.Ferris V.P. & Gen.Mar....C.E.Burton
District Mar....Paul Snow Business Mar....W.D.Marshall

BRANCH OFFICES AND MANAGERS

| | | | |
|----------------|------------------|---------------|---------------|
| Denver | 2360 S.Delaware | Arnold Dodd | PH: PE 3-9996 |
| Phoenix | 1326 N.22nd Ave. | Howard Brown | PH: AL 2-2022 |
| Salt Lake City | 1065 S.2nd West | Keith Reading | PH: 4-2118 |
| Spokane | 1509 W.2nd Ave. | Carlos Milner | PH: TE 1531 |

LINES HANDLED

A/B Atlas Diesel, Stockholm, Sweden
Sandvikens Jernverks Aktiebolag, Sandviken, Sweden

Atlas: Diesels, Compressors, Rock Drills, Pneumatic Drills,
Wagon Drills, Winches and Hoists

Sandvikens: Integral Tungsten-Carbide Drill Steels and
Detachable Bits

LE ROI DIVISION, Westinghouse Air Brake Co. SAN CARLOS
1504 Laurel St. PH: LY 3-9162

Regional Mar....E.G.Simmons

BROWN-BEVIS INDUSTRIAL EQUIPMENT CO.(Branch) SAN DIEGO
701 E.Harbor Drive PH: BE 4-2833

Manager.....John Winchel

SEE MAIN OFFICE LISTING UNDER LOS ANGELES

HUDSON EQUIPMENT CO. PH: BE 9-5171
629 First Ave., P.O.Box 350

Owner-President...William Kenton Service Manager...K.W.Rowell
Sales Manager...E.A.Myers Parts Manager...Mark Kleinberg

BRANCH OFFICE

| | | | |
|-----------|----------------|------------------|---------|
| El Centro | 3rd & Broadway | Ed L.Thies, Mgr. | PH: 677 |
| | (P.O.Box 1663) | | |

LINES HANDLED

| | |
|----------------------------|-----------------------------|
| Abbey-Scherer Co. | Leschen Wire Rope Div. |
| Aeroli Products Co. | Mail Tool Company |
| Blackmer Pump Co. | Marlow Pumps |
| Brunner & Lav, Inc. | Minnesota Mining & Mfg. Co. |
| Dearborn Chemical Co. | Newman Mfg. & Sales Co. |
| Diamond Chain Co. | Quaker Rubber Corp. |
| R.E.Dietz Co. | W.A.Ridgell Co. |
| Dixon Valve & Coupling Co. | Senslorm Mfg. Co. |
| Duff-Norton Mfg. Co. | Sta-Rite Pump Co. |
| Eco Engineering Co. | Schramm, Inc. |
| Fiske Bros. Refining Co. | A.O.Smith Corp. |
| Garlinghouse Brothers | Gordon Smith & Co. |
| Gilson Brothers Co. | Syntron Company |
| Hensley Equipment Co. | Tremec Company, Inc. |
| Homestead Valve Mfg. Co. | U.S.Pumps, Inc. |
| Kato Engineering Co. | Wood Shovel & Tool Co. |
| Kralov Plastic Pipe Co. | Woodbridge Mfg. Co. |
| | Worthington Corporation |

SAN DIEGO TRACTOR & EQUIPMENT CO. SAN DIEGO
701 - 1st Avenue PH: MA 0151

President.....H.W.Booth, Jr. Vice President...Rolly W.Fowler
Manager.....H.W.Booth, Jr. Sales Manager...Rolly W.Fowler
Parts Manager...Jack Deadrick Service Manager...Royal Rusbom

BRANCH OFFICE

| | | | |
|-----------|---------------|----------------|---------|
| Escondido | Santa Fe Ave. | J.H.Fort, Mgr. | PH: 326 |
|-----------|---------------|----------------|---------|

LINES HANDLED

| | |
|-------------------------|---------------------|
| Athey Products | John Deere Plow Co. |
| John Bean Western | Fleco |
| Caterpillar Tractor Co. | Hyster Co. |
| | Preco |

SHAW SALES & SERVICE CO. (BRANCH) SAN DIEGO
1475 Newton St. PH: 9-4145

Manager.....J.Pussanang Parts & Serv.Mgr Milton Collier

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C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

DISTRIBUTORS' SECTION

SOUTHERN EQUIPMENT & SUPPLY CO.....SAN DIEGO
2025 East Harbor Drive PH: BE 2-6123

President.....P.H.Davenport
Vice President...E.T.Guymon, Jr.
Manager.....Clifton Coates
Parts Manager...W.J.J.Putnam

Exec.Vice Pres...Hugh McArthur
Manager, Steel Dept.
Manager-Buyer...Wm.S.W.Low
Industrial Supplies
Service Manager...T.H.Thatcher

BRANCH OFFICE

Escondido 301 W.Grand PH: 111 R.Hilbert, Mgr.

LINES HANDLED

J.D.Adams Manufacturing Co.
American Tractor Equipment Co.
Atlas Scraper & Engineering
Be-Ge Manufacturing Co.
Black & Decker Mfg. Co.
Bucyrus-Erie Mfg.Co.
E.H.Edwards Company
Electric Steel Foundry Co.
Essick Manufacturing Co.
Eveready BrikSaw Co.
Firestone Tire & Rubber Co.
Friend Manufacturing Co.
Harnischfeger Corp.
Frank G.Hough Co.
Hughes-Keenan Co.
Ingersoll-Rand Co.
International Harvester Co.
Mail Tool Company
M-R-S Manufacturing Co.
Pullman Standard Car Mfg. Co.
Owen Bucket Company
Palmer Electric Mfg. Co.
T.L.Smith Company
Waukesha Motor Co.
Whiteman Manufacturing Co.

J.D.ADAMS MANUFACTURING CO.....SAN FRANCISCO
230 7th St. PH: UN 1-3430

District Mgr....Don Hoffman Branch Manager...H.J.Cooke
Parts Manager....Lee Hartwig

AMERICAN CHAIN & CABLE CO., INC.....SAN FRANCISCO
890 Tennessee St. PH: MI 7-4640

Dist.Sls.Mgr....Geo.F.Lehr

AUSTIN WESTERN CO.....SAN FRANCISCO
33 Clementine St. PH: DO 2-1654

Dist.Manager...J.E.Huber Parts Depot Mgr...F.J.Anzelone
Asst.Dist.Mgr...Fred Bourquin Service Manager...R.H.Witherill

EDWARD R.BACON COMPANY.....SAN FRANCISCO
Folsom at 17th St. PH: HE 1-3700

General Manager, Jack How
Manager.....W.F.McGouirk
Parts Manager...E.T.Johnson
Manager of Field Salesmen.....Max B.Campbell

Sales Prom.Mgr...Albert P.Hahn
Chief Accountant...P.J.Mangel
Service Manager...W.R.Kidder
Max B.Campbell

BRANCH OFFICES

Fresno Office Manager P.H.Hamm PH: 6-8129
Oakland General Supt. N.B.Denney PH: KE 3-0432
Sacramento Office Manager N.B.Denney PH: GI 2-1008

LINES HANDLED

Advance Car Mover Co., Inc.
Advance Scale & Mfg. Co.
Air Placement Equipment Co.
American Air Filter, Inc.
Herman Nelson Division
American Gage & Mfg. Co.
Atlas Conveyor Company
Austin-Western Company
Beebe Bros.
Brunner & Lav, Inc.
Campbell Equipment Co.
Camm Manufacturing Co.
Celaphote Corporation
Cleveland Trencher Co.
Colorado Fuel & Iron Corp.
Concrete Surfacing Machinery Co.
Dobble Foundry & Machine Co.
Doua-Lynn Co., Inc.
Drever Vibrator Co.
Edwards Manufacturing Co.
Elmco Corporation
Electric Taper & Equipment Co.
Eveready BrikSaw Company
Everhot Manufacturing Co.
G & T Industries, Inc.
Gar-Bro Manufacturing Co.
General Machine & Welding Works
Giesner Equipment Corp.
Grier Engineering Co., Kay M.
H & L Tooth Company
Handlan, Inc.
Jackson Vibrators, Inc.
Jaeger Machine Co.
Jones Superior Machine Co.
Kiesler Company, Jos. F.
Kinney Spring Steel Broom Co.
Ka-Mo Tools, Inc.
Klauser Manufacturing Co.
Kohler Company
LaCrosse Trailer Corp.
Link-Belt Speeder Corp.
Littleford Bros., Inc.
Maginniss Power Tool Co.
Malsbury Manufacturing Co.
Manning, Maxwell & Moore, Inc.
McKiernan-Terry Corp.
M-B Corporation
Morse-Starratt Products Co.
Murphy Company, L.R.
N.P.Nelson Iron Works, Inc.
Ohio Locomotive Crane Co.
Oltawa Steel Products, Inc.
Page Engineering Co.
Pitman Manufacturing Co.
Pyramid Steel Company
"Quick-Way" Truck Shovel Co.
Quincy Compressor Co.
Radiator Specialty Co.
Roebbling's Sons Corp., John A.
David Round & Son
Salem Tool Co.
Sasgen Derrick Co.
Skagit Steel & Iron Works
Southwest Welding & Mfg. Co.
Superior Concrete Acc., Inc.
Symons Brothers Co.
Tampo Manufacturing Co.
Templeton, Kenly & Co.
Thor Power Tool Co.
Tilden Tool Manufacturing Co.
Toledo Pressed Steel Co.
Walter Motor Truck Co.
Waterloo Steel & Equipment Co.
Western Machinery Co.
Whiteman Manufacturing Co.
Wilshire Power Sweeper Co.
Winslow Govt.Std.Scale Wks., Inc.
Wisconsin Motor Corp.
Woodridge Manufacturing Co.
Wooley Machine Company

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Branch Manager.....Paul W.Pounds
Pacific West Coast Sales Manager.....A.S.Boehm
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1732 Wright Avenue.....Richmond
Pacific West Coast Sales Mgr.....A.S.Boehm
Warehouse Manager.....A.R.Meyers

BLAW KNOX EQUIPMENT DIV. BLAW KNOX CO......SAN FRANCISCO
(Western Sales Office)
681 Market St. PH: YU 2-1569
West Coast District Manager.....J.P.Cullen

BRODERICK & BASCOM ROPE CO......SAN FRANCISCO
44 Potrero Avenue
Manager.....J.E.Carmichael

BUCYRUS-ERIE CO......SOUTH SAN FRANCISCO
120 Freeway St. PH: PL 5-7436
Western Sales Manager..J.H.Sackett

BUDA ENGINE & EQUIPMENT CO., INC......SAN FRANCISCO
Subsidiary of Allis-Chalmers Mfg. Co.
470 Bayshore Blvd. PH: VA 4-3906
Factory Branch Manager.....C.H.Riding

CHICAGO BRIDGE & IRON COMPANY.....SAN FRANCISCO
200 Bush Street PH: EX 2-8936
Western Sales Mgr.....L.A.Elsener

CHICAGO PNEUMATIC TOOL CO......SAN FRANCISCO
855 Bryant Street PH: HE 1-7928-29
Western Sales Representative.....E.W.Karp
Branch Manager.....C.W."Scotty" Scott

COAST EQUIPMENT CO......SAN FRANCISCO
444 Eighth Street PH: MA 1-5740
President.....W.M.Nosman Vice President...Paul R.Eall
LINES HANDLED

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| Aeroli Products, Inc. | Kansas City Hay Press Co. |
| Alamo Iron Works | Kardong Bros. |
| American Chain & Cable Co. | Kohler Company |
| American Hoist & Derrick Co. | Lacar Enterprises |
| Barber-Greene Co. | Leschen Rope Co. |
| Beebe Brothers | Lincoln Engineering Co. |
| Wm. Bros Boller & Mfg. Co. | Mall Tool Company |
| Brunner & Lav | Morse-Starrett Products Co. |
| Buda Co. (Earth Drills) | Quincy Compressor Co. |
| Burch Corporation | Rogers Bros. (Trailers) |
| C.F. & I. Co. (Grader Blades) | Ruemelin Manufacturing Co. |
| Chain Belt Company | Sanstorm Manufacturing Co. |
| Coffing Hoist Co. | Skill Corporation |
| Consolidated Machy. & Supply Co. | The Skookum Co., Inc. |
| Dobbie Foundry & Machine Works | Southwest Welding & Mfg. Co. |
| Duff-Norton Company | Star Wire Screen & Iron Works |
| Eagle Iron Works | Templeton, Kenly & Co. |
| W.E.Grace Manufacturing Co. | Thew Shovel Company |
| Huber Manufacturing Co. | Vulcan Iron Works |
| Hughes-Keenan Corp. | Waterloo Steel & Equipment Co. |
| Joy Manufacturing Co. | Wellman Engr. Co. (Buckets) |
| | Wisconsin Motors Corp. |

CONTRACTORS MACHINERY CO......SAN FRANCISCO
1401 Illinois Street PH: MI 7-0588
President.....J.W.Beatty Sales Manager....J.W.Beatty
Parts Manager...Thomas W.Lyden Service Manager..Thomas W.Lyden
LINES HANDLED

| | |
|----------------------------|-----------------------------------|
| BeGe Manufacturing Co. | Henry Manufacturing Co. |
| C.H. & E Manufacturing Co. | Hydraulic Tool & Equipment Co. |
| J.I. Case Company | Lull (Baker-Lull) Mfg. Co. |
| Danuser Machine Co. | Ottawa Steel Products Co. |
| Duplex Truck Company | Schramm Co., Inc. |
| | Warner & Swasey Co., Gradall Div. |

COAST EQUIPMENT COMPANY

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A.C. COPE COMPANY.....SAN FRANCISCO
445 Bryant Street PH: EX 2-8064
Owner & Mgr....A.C. Cope

DIRECT FACTORY REPRESENTATIVES FOR:

| | |
|-------------------------------|---------------------------------|
| Allied Marine Equipment Corp. | Manhattan Marine & Electric Co. |
| Aqua Meter Co. | David Round & Son |
| Cascade Paraline Mfg. Co. | SHMO Valves, Inc. |
| John Cooper Co., Inc. | Stow Manufacturing Co. |
| Darling Valve & Mfg. Co. | Swanson Boat Oar Factory |
| The Kraissl Co., Inc. | E.J. Willis Company |

F.W.D. PACIFIC CO.....SAN FRANCISCO
850 Harrison Street PH: GA 1-4971
Manager.....John E. Baffes Office Manager...John Blake, Jr.
Parts Manager...David Wholton Service Manager...A.W. Johnson

LINES HANDLED

| | |
|----------------------------|----------------------------------|
| Alaskaug, Inc. | Pettibone Wood Manufacturing Co. |
| Byers Manufacturing Co. | Pettibone New York Graders |
| Four Wheel Drive Auto Co. | Rosco Manufacturing Co. |
| Garrison Manufacturing Co. | Ruger Equipment, Inc. |
| Highway Trailer Co. | Tucker Sno-Cat Corp. |
| K-Hill Manufacturing Co. | Universal Engineering Corp. |
| Pettibone Mulliken Corp. | Wausau Snow Plows |

GARDNER-DENVER CO.....SAN FRANCISCO
811 Folsom Street PH: EX 2-8747
District Mgr....C.H. Dirks

HARNISCHFEGER CORPORATION.....SAN FRANCISCO
Room 212, 100 Bush St. PH: DO 2-2313
Dist. Manager...I.M. Stout Sales Engineer...J.H. Taylor
Sales Engineer...W.A. Stiles

HUCK MANUFACTURING COMPANY.....SAN FRANCISCO
625 Third Street
Manager.....H.B. Cleveland

HEIL EQUIPMENT CO.....SAN FRANCISCO
999 - 16th Street PH: KL 2-3040
President.....Alford R. Smith
Manager.....Richard Goddard
Parts Manager...Richard Hughes
Vice President...E.T. Smith
Sales Manager...Richard Goddard
Service Manager...J. McKellar

LINES HANDLED

| | |
|---------------------------------|----------------------------|
| Foster Tilt Bed Trailers | Michigan Safety Fuel Tanks |
| Heil Hoists & Dump Bodies | Omaha Bottom Dump Trailers |
| Hendrickson 6-Wheel Attachments | Reliance Trailers |
| Knapheide Platform Bodies | Unit Hydraulic Lifts |

HERCULES POWDER COMPANY.....SAN FRANCISCO
225 Bush Street
Manager.....F. Geo. Trescher

HOMELITE CORPORATION.....SAN FRANCISCO
1201 Shafter Street PH: MI 8-6100
District Mgr....R.C. Glidden Office Manager...Dick Claunch
Branch Manager...Ralph Evans

INGERSOLL-RAND CO.....SAN FRANCISCO
350 Brennan Street PH: GA 1-6330
District Mgr....W.C. Collier

INTERNATIONAL HARVESTER CO.....SAN FRANCISCO
610 Brennan Street PH: YU 2-5085
Manager.....H.F. Koelling

IOWA MANUFACTURING CO.....SAN FRANCISCO
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Shop Supt.....C.B. Hamill

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JOY MANUFACTURING CO......SAN FRANCISCO
1155 Harrison Street PH: HE 1-2446

District Mar....L.C. Rhodes

KING-KNIGHT COMPANY.....SAN FRANCISCO
360 Jefferson Street PH: PR 6-2700

President.....Lyman S. King Vice President...R.G. Thayer
Chief Engineer...R.W. Hart, Jr. Sales Manager...H.F. Neuman

BRANCH OFFICE

Los Angeles 4710 Crenshaw Blvd. Lee A. Gutler, Mgr. PH: AX 1-5855

LINES HANDLED

| | |
|-----------------------------------|----------------------------------|
| Buda Company Marine Diesels | Kinney Manufacturing Co., Pumps |
| Buda Diesel Generator Sets | Murray Iron Wks., Steam Turbines |
| Coppus Engineering Corp., | Nordberg Gasoline Marine Engines |
| Turbines and Blowers | Nordberg 4FS Diesel Engines |
| Coventry Victor Diesels | Poole Flexible Couplings |
| Katolight Generalizing Plants | Ruston & Hornsby Ltd., Diesels |
| King-Knight Generator Sets | Sterling Engine Co., Diesel Eng. |
| King-Knight Auto. Starting Equip. | Skinner Engine Co., Uniflow |
| | Steam Engines |

M.C. LEHMKUHL.....SAN FRANCISCO
114 - 14th St. PH: UN 1-1786

Owner.....M.C. Lehmkuhl

LINES HANDLED

| | |
|--------------------------------|---------------------------------|
| Buckeye Tools Corp. | Quincy Compressor Co. |
| Pennsylvania Pump & Compr. Co. | Ster-Bath Gear & Pump Co., Inc. |
| | Zephyr Manufacturing Co. |



GEORGE M. PHILPOTT CO.

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FRESNO — PORTLAND

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GARDNER — DENVER

PIONEER

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Timken — Hyatt — New Departure — Torrington

National Oil Seals — Gates V-Belts —

Chain & Sprockets

LESTEN WIRE ROPE DIVISION.....SAN FRANCISCO
520 4th Street PH: GA 1-8134

District Mgr....D. Berglund

MACK MOTOR TRUCK CORPORATION.....SAN FRANCISCO
1745 Folsom Street PH: UN 1-1455

District Mar....J.E. Donovan Asst. Br. Mar....W.C. Miles
Parts Supr....Martin Meyn Serv. Supt....H.P. Kraus

MACWHYTE COMPANY.....SAN FRANCISCO
141 King Street PH: EX 2-4966

District Mar....Fred Sime

MARION-OSGOOD-GENERAL.....So. SAN FRANCISCO
326 Shaw Road PH: JU 3-2350

District Manager.....W. Dean Calland

MINES ENGINEERING & EQUIPMENT CO......SAN FRANCISCO
454 Montgomery St. PH: SU 1-1004

Owner.....B. Monte Verda

LINES HANDLED

| | |
|-------------------------------|-------------------------------|
| Barber-Greene Co. (Conveyors) | The Mine & Smelter Supply Co. |
| Birdsboro Steel & Machine Co. | Smith Engineering Works |
| Deister Concentrating Co. | Vulcan Iron Works |
| | A.R. Wilfley & Sons, Inc. |

MILWAUKEE-MOLINE CO......SAN FRANCISCO
112 Market Street PH: YU 6-0249

nc. Super.....R.F. Trissell

NORTHWEST ENGINEERING CO......SAN FRANCISCO
255 10th Street PH: HE 1-5060

Regional Mar....A.G. Crowley Office Manager...M.C. Schultz

PETERSON TRACTOR & EQUIPMENT CO. (Branch).....SAN FRANCISCO
943 Harrison Street PH: YU 6-6390

SEE MAIN OFFICE LISTING UNDER SAN LEANDRO

GEORGE M. PHILPOTT CO., INC......SAN FRANCISCO
1060 Bryant Street PH: HE 1-5475

President.....Geo. M. Philpott V.P. & Gen. Mgr...R.G. Fletcher

BRANCH OFFICES

| | | |
|------------|---------------------------------|--------------------|
| Oakland | 3257 San Pablo Ave. PH: 3-1656 | G. Mortenson, Mgr. |
| Sacramento | 1725 33rd St. PH: HI 5-3079 | J. Close, Mgr. |
| Fresno | 2376 S. R.R. Ave. PH: FR 6-9843 | J. Meenan, Mgr. |
| Monrovia | 339 W. Maple St. PH: EL 8-1195 | Ralph Range, Mgr. |

LINES HANDLED

| | |
|----------------------------------|------------------------------------|
| Aetna Ball Bearing Mfg. Co. | Hyatt Bearing Co., Div. GMC |
| Atlas Brass Foundry | Killian Manufacturing Co. |
| Auburn Ball Bearing Co. | Marlow Pumps |
| Automotive Thrust Bearing Co. | Mayhew Supply Company |
| Bentley Bearings Div. | Miniature Precision Bearings, Inc. |
| Bearings Company of America | National Motor Bearings Co. |
| Bower Roller Bearing Co. | New Departure Div. GMC |
| Brunner & Lay, Inc. | Norma Hoffman Bearing Co. |
| J. W. Bures "Air Trac" | Orange Roller Bearing Co., Inc. |
| Chas. A. Colgate Company | Pioneer Engineering Works |
| Coolidge Mfg. Company | Roller Bearings Co. of America |
| Croft Bearing Service Eqp't. Co. | The Schultz Mfg. Company |
| Cullman Wheel Company | Smith Bearing Company |
| Dart Manufacturing Co. | Speed Selector, Inc. |
| L. E. Dixon Co. | Split Ball Bearing Corp. |
| Euclid Division, GMC | Stephens-Adams Mfg. Co. |
| Fafnir Ball Bearing Co. | Simonds Abrasive Company |
| Ft. Worth Steel & Machy. Co. | Timken Roller Bearing Co. |
| Gardner-Denver Company | The Torrington Company |
| The Gates Rubber Company | Albert Trosiel Parkings, Inc. |
| | The Waterman-Western Co. |

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

WESTERN CONSTRUCTION HANDBOOK

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1315 Howard Street PH: UN 3-6655
Manager.....Robt.O.Harlow
Sales Engineer...Larry Kean
Service Manager...John Smith

SKILL CORPORATION.....SAN FRANCISCO
285 So.Van Ness Ave. PH: UN 3-1250
Branch Manager...Herman Pflug
Sales Repr.....Ken R.McMillan
Sales Repr.....Chas.Fowler
Sales Repr.....W.R.Woosley
Service Manager...Jerry Healey

S. MORGAN SMITH CO.....SAN FRANCISCO
69 Post Street PH: GA 1-5582
Western District Manager.....Harry A.Doell

STANDARD MACHINERY COMPANY.....SAN FRANCISCO
450 Bayshore Blvd. PH: AT 2-2883
President.....C.A.Winterl
Sec. & Treas....R.H.Danford

LINES HANDLED

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| Bethlehem Wire Rope | Lippman Engineering Co. |
| Blastcrete Equipment Co. | Marsten Engineered Products |
| Construction Machinery Co. | Maxon Construction Mfg. Co. |
| Construction Machinery Sales Co. | Mall Tool Company |
| Duff-Norton Manufacturing Co. | Parsons Company |
| Gründler Crusher & Pulv. Co. | The Prehy Company |
| Jiffy Excavator Point Co. | Simplicity Engineering Co. |
| Koehring Company | Viber Company |
| Kwik-Mix Company | Wright Engineering Co. |
| | Youn Manufacturing Co. |

THOR POWER TOOL CO.....SAN FRANCISCO
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District Mgr.....E.C.O'Connell

TRAYLOR ENGINEERING & MFG. CO.....SAN FRANCISCO
55 New Montgomery Street PH: EX 2-1681
Manager.....D.J.Kramm

VICTOR EQUIPMENT COMPANY.....SAN FRANCISCO
844 Folsom Street PH: GA 1-3000
President.....L.W.Stettner
Secy-Treas....W.S.Fulwider
Sales Manager...Sam Cohn, Jr.
V.P.Chg.Sales...E.A.Daniels
V.P.Sales...E.O.Williams
Office Manager...Ralph Rader

BRANCH OFFICES

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| Fresno | Manager | Al Dreth, Jr. | PH: 6-0619 |
| Los Angeles | Vice President | E.O.Williams | PH:LA 1286 |
| Oakland | Manager | Richard Heinemann | PH:KE 6-4700 |
| Sacramento | " | Richard Labagh | PH:GI 3-1450 |
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| Ventura | " | Gene Campbell | PH:MI 3-7044 |

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| Arcair Co. | Magnetrol Corp. |
| Contour Marker Corp. | Precision Welder & Machine Co. |
| Eureka Welding & Supply Co. | Sight Feed Generator Co. |
| Fibre-Metal Products Co. | Sirco Mfg. Co. |
| Gas-Flux Co. | Temple Corp. |
| General Electric Co. | Tillman Co. |
| Handy & Harman | Welding Alloys Mfg. Co. |
| H & M Pipe Beveling Machine Co. | Wickman Co. |
| Jackson Products | Solar Aircraft Co. |
| Kedman Co. | Worthington Corp. |

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Office Manager...E.W.McCarthy
Service Supt.....R.M.Wall
Sales Mgr.....C.A.Knifsend
Parts Manager...W.F.Scottlin

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| All States Welding Alloys Co., Inc. | PREST-O-LITE |
| American Optical Co. | Mall Tool Company |
| Albert & J.M.Anderson Mfg. Co. | National Carbon Co. |
| Anthony INSUL-LOCK | D.W.Onan & Sons, Inc. |
| Atlas Welding Accessories Co. | Osborn Manufacturing Co. |
| Despatch Oven Company | Reid-Avery Company |
| Federated Metals Division | Geo.W.Smith & Sons |
| General Manufacturing Co. | Stoody Company |
| Hendy & Harmon | Sylvania Electric Products, Inc. |
| The Hopper Co. | Templ Corporation |
| Jackson Products | Thermacote Company |
| A.P.Johnston Co. | Union Carbide & Carbon Corp. |
| Kedman Company | Victor Equipment Co. |
| The Lincoln Electric Co. | Weldly, Inc. |

WEST COAST INDUSTRIAL SALES CO.....SAN FRANCISCO
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President.....Jerry F.Hamlin
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Secretary.....E.J.Barshell
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Secretary.....E.J.Barshell
Vice President...H.J.Mayer
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Office Manager..J.Holleran
General Manager..John Jorgensen
Service Manager..W.D.Carlston
Parts Manager...Wm.Jeffs

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| Fresno | 1143 "C" Street | Wm.Dexter | PH: 2-1153 |
| Sacramento | 16th & American | Wm.Davis | PH: 5-8551 |

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| Ferro Enameling Co. | Seaman Motors, Inc. |
| Galion Iron Works & Mfg. Co. | Standard Steel Works |
| | Wayne Manufacturing Co. |

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Branch Manager...H.P.Strother

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| A-C Spark Plug Co. | Lipe-Rollway |
| Air-O-Matic Power Steering Corp. | Long Manufacturing Co. |
| Alomite Company | Luber-Finer, Inc. |
| American Chain & Cable Co. | Perfect Circle Piston Ring Co. |
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| Blackhawk Manufacturing Co. | Sterling Motor Truck Co. |
| Borg & Beck | Sun Electric Co. |
| Borg-Warner Co. | Timken Detroit Axle Co. |
| Braden Winch Co. | Timken Roller Bearing Co. |
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| Champion Spark Plug Co. | Warner Transmission Co. |
| Clark Transmission Co. | White Motor Co., Trucks & Busses |
| Deluxe Filter Co. | Gasoline & Diesel |
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Service Manager..Charles Morgan
Parts Manager...Ed J.Istler

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| Gilroy | N.Monterey Rd. | James Clinkenbeard | PH: 727 |
| Hollister | 201 Sixth St. | Ralph M.Sharp | PH: 860 |

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|-------------------------|----------------------|
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| Be-Ge Manufacturing Co. | Marvin Landplane Co. |
| Caterpillar Tractor Co. | Preco, Inc. |
| John Deere Plow Co. | H.C.Shaw Company |
| Fleco Corporation | Ulrich Products Co. |

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District Sales Mgr...C.M.Porter

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Manager.....R.H.Bellinger
Parts Manager...W.J.Williams
Vice President...R.H.Bellinger
Office Manager...Irvin Curlls
Service Manager..Dave Stilleke

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|-------------------------------|-----------------------------|
| American Tractor & Equip. Co. | Hughes-Keenan Co. |
| Be-Ge Company | International Harvester Co. |
| Bucyrus-Erie Co. | Pacific Car & Foundry Co. |
| Drott Manufacturing Co. | Palmer Electric Co. |
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Athey Products Corp. Martin Machine Co.
Be-Ge Manufacturing Co. Marvin Landplane Co.
Caterpillar Tractor Co. Precor, Inc.
C & D Manufacturing Co. H.C.Shaw Company
John Deere Plow Co. Southwest Welding & Mfg. Co.
Fleco Corporation Standard Trailer Co.
Four Wheel Drive Auto Co. Ulrich Products Corp.

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Pacific Coast Factory
2100 Williams Street PH: LO 2-2830

District Mgr...H.G.Ballou

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2051 Williams Street PH: LO 2-2051

District Mgr...R.G.Allen

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SCHILD BANTAM CO.....SAN MATEO
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District Mgr...A.Frank Landolt

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Western Repr...Jack Lumley

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| Manager.....F. E. Stevenson | Sales Manager...J. S. Stevenson |
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Manager.....Bob Stevens

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| Banta Manufacturing Co. | Linney, H. E. Co. |
| Baron Manufacturing Co. | J. E. Love Company |
| John Bean Company | McCoy Company |
| Be-Ge Manufacturing Co. | Morrell Manufacturing Co. |
| Blackwelder Mfg. Co. | Murray Manufacturing Co. |
| Briggs & Stratton Co. | O'Hare Manufacturing Co. |
| Bucyrus-Erie Company | Reliance Troller Co. |
| Butler Manufacturing Co. | Robinson Engineering Co. |
| Carco | Schmidster, F. C. Co. |
| Corli & Fleming, Inc. | Service Manufacturing Co. |
| Daybrook | Silver Engineering Co. |
| Drott Manufacturing Co. | Towner-Meyer Co. |
| Eversman Manufacturing Co. | Trailmobile Company |
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| President.....Parker M. Holt | Vice President...Harry D. Holt |
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BRANCH OFFICES

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General Manager.....L.W. Ribal
Asst. Gen. Mgr.....Chas. H. Seatch
Sales Manager.....Kent Hof
Parts Manager.....D. Christy

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| Fresno | Sales Manager | Geo. Krejci | PH: 3-7231 |
| | Parts & Service | P.C. Steinhauer | |
| N. Sacramento | Sales Manager | Paul Hayden | PH: 9-8525 |
| | Parts & Service | M.L. Morgan | |
| Redding | Sales Manager | Dave Craft | PH: 47 |
| | Parts & Service | Don Burro | |
| Reno | Sales Manager | Frank Kern | PH: 2-7025 |
| | Parts & Service | | |

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| Baker Manufacturing Co. | Page Engineering Co. |
| Be-Ge Manufacturing Co. | Peerless Trailers |
| Buckeye | Pettibone Mulliken Co. |
| Construction Machinery Co. | Sansform Manufacturing Co. |
| Gar Wood Industries, Inc. | Schild Bantam Co. |
| General Motors Corp. (Truck Div.) | Seaman Motors, Inc. |
| Gorman-Rupp Company | Tractomotive Corporation |
| Halss Manufacturing Co. | Transitlitter Company |
| Hendrix Manufacturing Co. | Unit Crane & Shovel Corp. |
| Ingersoll-Rand Co. | Universal Engineering Corp. |
| C.S. Johnson Co. | West Coast Machinery Co. |
| Lincoln Electric Co. | Woodridge Manufacturing Co. |

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District Mgr.....R.W. Christofferson

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Manager.....J.V. Kleibauch

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Hiway 50 & Chrisman Road PH: 679
Manager.....Rene Liegeois, Jr.

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P.O. Box 1310
Manager.....W. Kottmeter, Sr.
Parts Manager.....Wm. Capron, Jr.

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| J.D. Adams Manufacturing Co. | American Tractor Equipment Co. |
| | International Harvester Co. |

TREANOR EQUIPMENT CO.....VISALIA
721 E. Main Street PH: 4-8041

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| Vice President.....John Raybourn | Comptroller.....Elmer C. Cord |
| Treasurer.....E.M. Trianor | Secy. & Atty.....J.K. Abercrombie |

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| Delano | Manager | Les King | PH: 9941 |
| Porterville | " | Dean Testerman | PH: 720 |
| Tulare | " | H.G. Garvin | PH: 6-4569 |

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| Caterpillar Tractor Co. | Hyster Company |
| | Tracton Company |

TULARE COUNTY TRACTOR CO.....VISALIA
1526 East Mineral King Hiway PH: 4-5843

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| President.....E.G. Peterson | Vice President.....Al.D. Magglore |
| Manager.....E.G. Peterson | Sec-Treasurer.....W. Willemen |
| Parts Manager.....Clair Ballard | Service Manager.....Al.D. Magglore |

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| Allis-Chalmers Mfg. Co. | Hardie Manufacturing Co. |
| American Tractor Equipment Co. | Mixermobile Distributors, Inc. |
| General Motors Diesel Engines | Murray Manufacturing Co. |
| | Woodridge Manufacturing Co. |

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124 Springside Road
District Repr.....Joe D. Whelan

FARMERS MERCANTILE CO. (Branch).....WATSONVILLE
Manager.....R.M. Johnson PH: 4-3861

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PRINGLE TRACTOR CO. (Branch).....WATSONVILLE
Lake & Walker PH: 4-3885
Manager.....L.D. Schoonover

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BERGLUND TRACTOR & EQUIPMENT CO. (Branch).....WILLITS
Highway 101, South PH: 5576
Manager.....Sheldon Kern

SEE MAIN OFFICE LISTING UNDER NAPA

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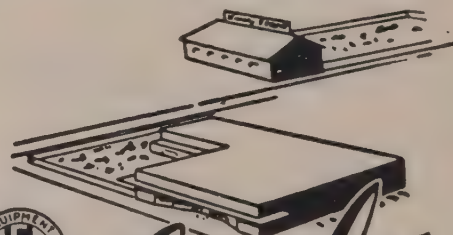
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| DeWalt, Inc. | Herman Nelson Division |
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| Harnischfeger Corp. | Pacific Car & Foundry Co. |
| Hercules Motors Corp. | Pitman Manufacturing Co. |
| Ingersoll Rand Co. | Sasgen Derrick Co. |

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| Wm. Bros. Boiler & Mfg. Co. | Quick-Way Truck Shovel Co. |
| Colorado Fuel & Iron Works | W.A.Riddell Corp. |
| Diamond Iron Works | Seagrave Corporation |
| Elgin Corporation | Thor Power Tool Co. |
| Food Machinery & Chemical Corp. | Union Wire Rope Co. |

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| Alenite Company | Industrial Couplers |
| Alloy Steel & Metals Co. | Link-Belt Company |
| Atkins Chamfer Saw Chain | Marlow Pumps |
| Bearing Co. of America | National Carbon Co. |
| Cushman Wheel Co. | National Motor Bearing Co. |
| Dart Mfg. & Sales Co. | Newman Industries |
| Colorado Fuel & Iron Corp. | New Departure Bearing Co. |
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| Howard Drillard Co. | The Stookum Co., Inc. |
| Electric Taper & Equipment Co. | Tanner Gas Company |
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| Fairbanks-Morse & Co. | Torrington Company |
| Gardner-Denver Co. | U.S.Rubber Co. |
| Gates Rubber Co. | Wade Quick-Lok Couplers |
| Norman Hoffman Bearings Corp. | Western Fence & Wire Works |
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Eagle Iron Works Southwest Welding Co.
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| Columbia Steel Casting Co. | Schramm, Inc. |
| D & M Machine Works | Simplex Tools |
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| Garwood Industries, Inc. | Wayne Crane Div., Am. Steel Dredge |
| General Machine & Welding Co. | Willard Concrete Machinery |

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| Carver Pump Company | Mack Welding Co. |
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| Curtis Manufacturing Co. | Mallory Loading Equipment Co. |
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| Dixon Valve & Coupling Co. | Porter-Cable Machine Co. |
| Dotmar Industries, Inc. | Salsbury Tool Co. |
| Duff Norton Manufacturing Co. | Sasgen Derrick Co. |
| Garco Corporation | Superior Welding & Machine Co. |
| Gates Rubber Company | United Machine Company |
| Gruendler Crusher & Pulverizer Co. | Warsop Power Tools, Inc. |
| Heltzel Steel Form & Iron Co. | Whiting Corporation |
| Homestead Valve Mfg. Co. | Wire Rope Corp. of America |
| H & M Pipe Beveling Machine Co. | Youn Manufacturing Co., Inc. |
| Johnston Pump Company | |

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| Buda Company | Quincy Compressor Co. |
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| Chausse Mfg. Co., Inc. | Sasgen Derrick Co. |
| Clyde Iron Works, Inc. | Sauerman Brothers, Inc. |
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| Davenport-Besler Corp. | Smith Engineering Works |
| Duff-Norton Manufacturing Co. | Tanner Tank Company |
| Erie Steel Construction Co. | Templeton, Kealy & Co. |
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| Ellis Equipment Company | Tractomotive Corp. |
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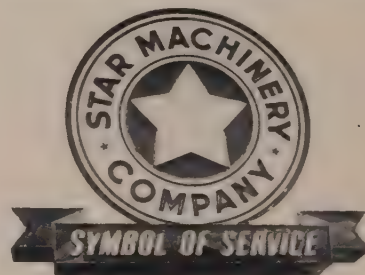
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Harnischfeger Corp.
Lessman Manufacturing Co.
Maginniss Power Tool Co.
Reed Roller Bll Co. (Cleco Div.)
Rodeers Hydraulic
Seagen Derrick Corp.
Straub Manufacturing Co.
Syntron Company
Tanner Tank Co.
Templeton, Kenly & Co.
Universal Form Clamp Co.
Wellman Engineering Co.
Wenzel Tank & Duck
Waco Manufacturing Co.

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General Wheelbarrow Co.
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Highway Equipment Co., Inc.
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Jost, F. Kessler & Co.
Littleford Bros., Inc.
Mack Welding Company
Nelson Iron Works, Inc.
Page Engineering Company
Pacific Wire Works
Pak-Mor Manufacturing Co.
Pioneer Engineering Works
Six Wheels, Inc.
Shunk Manufacturing Co.
Transport Trailers, Inc.
Wausau Iron Works
Wayne Manufacturing Co.
Winslow Scale Works
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W. 1107 Third Avenue PH: MA 9151

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LINES HANDLED

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Armstrong Manufacturing Co.
Band-It Company, Inc.
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Bolce Crane Company
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Browning Manufacturing Co.
Butler Manufacturing Co.
Caldwell Company, Inc.
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Dixon Valve & Coupling Co.
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Essick Company
Falk Corporation
Flexible Steel Lacing Co.
Garwood Industries
Gardner-Denver Co.
Giant Manufacturing Co.
Goulds Pump Company
Hendrix Manufacturing Co.
Hetherington & Berner, Inc.
Homestead Valve Company
International Harvester Co.
Jeffrey Manufacturing Co.
Johnston Pump Company
Klamath Machine & Locomotive
Link-Belt Company
Nagle Pumps, Inc.
Northwest Engineering Co.
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Rex Metal Works
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Western Brass Works
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Rosco Manufacturing Co.
Schield Bantam Co.
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CONTAINS:

Alphabetical listing of products manufactured by the manufacturers listed in the yellow section.

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Construction Machinery Co.
DeWalt, Inc.
Felker Mfg. Co.
Le Tourneau-Westinghouse Co.
Shunk Manufacturing Co.
Skill Corporation
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Jaeger Machine Co.
Morse Bros. Machinery Co.
Straub Mfg. Company
T. L. Smith Company
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Austin-Western Co.
Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
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Oliver Corp.
Pacific Car & Foundry Co.
Shawnee Mfg. Co.
West Coast Machinery Co.
Woodriddle Mfg. Co.

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Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lay
Clipper Manufacturing Co.
R.P.B. Corp.
Thor Power Tool Co.

ASPHALT KETILES

Aeroli Products, Inc.
Clipper Manufacturing Co.
Hauck Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Standard Steel Works
White Manufacturing Co.

ASPHALT PAVING EQUIPMENT

Barber-Greene Co.
Burch Corporation
Foote Co., Div. Blaw Knox Co.
Harnischfeger Corp.
Hauk Mfg. Co.
Hetherington & Berner, Inc.
Highway Equipment Co.
Littleford Bros., Inc.
Iowa Manufacturing Co.
Kwik-Mix Company
Madsen Iron Works
Pioneer Engineering Works
Ulrich Products Corp.
Universal Engineering Co.
Weyer Impactor, Inc.

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Geo. Halss Mfg. Co.
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Kwik-Mix Company
Madsen Iron Works, Inc.
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ASPHALT SUPPLY TANKS

E. D. Etnyre & Co.
Gunnison Mfg. Co.
Littleford Bros., Inc.
Standard Steel Works

B

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Baker-Lull Corp.
Bucyrus-Erie Co.
Cleveland Trencher Co.
Gardner-Denver Co.
Frank G. Hough Co.
Koehring Co.
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Northwest Engineering Co.
Schield Bantam Co.
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BACKFILL TAMPERS

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Ingersoll-Rand Co.
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Thor Power Tool Co.
Vibro-Plus Products, Inc.
Warsop Power Tools, Inc.
Weyer Impactor, Inc.
Worthington Corp.

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Bucyrus-Erie Co.
Bvers Mfg. Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
General-Osgood Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hyster Company
Insley Manufacturing Co.
Koehring Co.
Le Roi Company
Link Belt Speeder Corp.
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Marion-Osgood-General
M.P. McCaffrey, Inc.
Oliver Corporation

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Schield Bantam Co.
Schram, Inc.
Shawnee Mfg. Co.
The Shovel Co.
Wayne Shovel & Crane Division

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Brunner & Lay
C.H. & E. Manufacturing Co.

BATCHERS

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Blaw Knox Co.
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Construction Machinery Co.
Conveyor Company
Gar-Bro Mfg. Co.
Koehring Co.
Lippmann Engineering Works
Materials Handling, Inc.
Noble Company
Standard Steel Corp.
Tampo Manufacturing Co.

BELT FASTENERS

Conveyor Company
Flexible Steel Lacing Co.

BENDERS

C.H. & E. Mfg. Co.

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Conveyor Company
C.S. Johnson Company
Materials Handling, Inc.

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Baughman Mfg. Co.
Blaw Knox Company
Bodinson Mfg. Co.
Butler Bin Company
Construction Machinery Co.
Conveyor Company
Cook Bros. Equipment Co.
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Noble Company
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Tampo Manufacturing Co.
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W. E. Grace Mfg. Co.

BITUMINOUS DISTRIBUTORS

Wm. Bros. Boiler & Mfg. Co.
Essick Manufacturing Co.
E.D. Etnyre & Co.
Froste Co., Div. Blaw Knox Co.
Gunnison Mfg. Co.
Littleford Bros., Inc.
Municipal Supply Co.
Rosco Manufacturing Co.
Standard Steel Works

BITUMINOUS HAUL TANKS

E.D. Etnyre & Co.
Gunnison Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.

BITUMINOUS MIXING PLANTS

Barber-Greene Co.
F. D. Cummer & Son Co.
Hetherington & Berner Co.
Iowa Manufacturing Co.
Koehring Co.
Kwik-Mix Company
Madsen Iron Works, Inc.
Pioneer Engineering Works
White Mfg. Co.

BLAST CLEANING EQUIPMENT

Sonstom Mfg. Co.
Victor Engineering Co.

BLOCKS & SHEAVES

American Holst & Derrick Co.
Gar Wood Industries, Inc.
M. P. McCaffrey, Inc.
Page Engineering Co.
Sauermann Bros.
Owen Bucket Company

BLOWERS

Homelite Corp.
Ingersoll-Rand Co.
Skill Corporation

BOILERS, STEAM

Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
Littleford Bros., Inc.
McKiernan-Terry Corp.

BOOMS

Colby Steel & Mfg. Co.
M.P. McCaffrey, Inc.
Pacific Car & Foundry Co.

BOOSTERS

Cleaver Brooks Co.
Gardner-Denver Co.
W. E. Grace Mfg. Co.

BRIDGES, SUSPENSION

Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
John A. Roebling Sons Corp.

BUCKETS, CLAMSHELL

Austin-Western Co.
Blaw Knox Company
Bucyrus-Erie Co.
Electric Steel Foundry Co.
Geo. Halss Mfg. Co.
C. S. Johnson Co.
Jos. F. Kiesler Co.
Koehring Co.
M. P. McCaffrey, Inc.
Owen Bucket Co.
Pettibone-Muliken Corp.
Schield Bantam Co.
Wellman Engineering Co.

BUCKETS, CONCRETE

American Tractor Corp.
Blaw Knox Company
Gar-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Insley Mfg. Co.
C. S. Johnson Co.
Koehring Co.
Martin Iron Works
Noble Company
Schield Bantam Co.
Tampo Manufacturing Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

BUCKETS, DRAGLINE

Bucyrus-Erie Co.
Drake-Williams-Mount Co.
Electric Steel Foundry Co.
Geo. Halss Mfg. Co.
Hendrix Manufacturing Co.
Insley Mfg. Co.
M. P. McCaffrey, Inc.
Owen Bucket Company
Page Engineering Co.
Pettibone-Mulliken Corp.
Quick-Way Truck Shovel Co.
Sauermann Bros.
Schield Bantam Co.
Wellman Engineering Co.

BUCKET LOADERS

American Tractor Corp.
Badger Machine Co.
Baker-Lull Corp.
Barber-Greene Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Geo. Halss Mfg. Co.
Lippman Engineering Works
Mixmobile Distributors, Inc.
Oliver Corp.
Pettibone-Mulliken Corp.
Reese Engineering Co.
Schramm, Inc.
Ulrich Products Corp.

BULLCLAMS

Drott Manufacturing Co.
Frank G. Hough Co.

BUILDERS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Austin-Western Co.
Atlas Scraper & Engineering Co.
Baker Manufacturing Co.
Baker-Lull Corp.
Wm. Bros. Boiler & Mfg. Co.
Caterpillar Tractor Co.
Drott Mfg. Co.
Gar Wood Industries, Inc.
Hell Company
Le Tourneau-Westinghouse Co.
Mixmobile Distributors, Inc.
McR-S Mfg. Company
Oliver Corp.
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Shawnee Mfg. Co.
West Coast Machinery Co.
Woodridge Mfg. Co.

BUILDING BLADES

American Tractor Corp.
Baker-Lull Corp.
Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Hell Company
Hensley Equipment Co.
Earle M. Jorgensen Co.
Le Tourneau-Westinghouse Co.
Oliver Corp.
Pacific Car & Foundry Co.
Rockland Allied Equipment Corp.
Shunk Manufacturing Co.
West Coast Machinery Co.
Wright Power Saw & Tool Co.

C

CABLEWAYS

Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
Sauermann Bros.
Superior-Lidgerwood-Mundy Corp.

CAR PULLERS

American Hoist & Derrick Co.
Bodinson Mfg. Company
Clyde Iron Works, Inc.
Frank G. Hough Co.
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

CAR SCOOPS

Butler Bin Company

CHAIN SAWS

Homelite Corp.
Mail Tool Company
McGulloch Motors Corp.
Schramm, Inc.
Skill Corporation

CIRCULATORS

Wm. Bros. Boiler & Mfg. Co.

CLAY DIGGERS

Arrow Tools, Inc.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Company
Le Rol Division
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

CLAY SPADES

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Company
Le Rol Division
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

COMPRESSORS

Chicago Pneumatic Tool Co.
Davey Compressor Co.
Essick Manufacturing Co.
Gardner-Denver Company
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
Le Rol Division
Morse Bros. Machinery Co.
O.K. Clutch & Machinery Div.
Schramm, Inc.
Worthington Corp.

CONCRETE BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Eagle Iron Works
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Rol Division
R.P.B. Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.

CONCRETE CARTS

Ger-Bro Mfg. Company
W.E. Grace Mfg. Co.
Insley Manufacturing Co.
Koehring Co.
Kwik-Mix Company
Prime Mover Co.
Whiteman Mfg. Company

CONCRETE FINISHING MACHINES

Blaw Knox Company
Dotmar Industries, Inc.
Flexible Road Joint Machine Co.
Jaeger Machine Company
Koehring Co.
Morse Bros. Iron Works, Inc.
Mail Tool Company
Stow Manufacturing Co.
Whiteman Mfg. Co.

CONCRETE FORM TIES

Economy Forms Co.
Superior Concrete Accessories, Inc.
Symons Clamp Mfg. Co.
Universal Form Clamp Co.

CONCRETE HAULERS

Koehring Co.
Maxon Construction Co.
SuPremix, Inc.

CONCRETE HEATERS

Aerol Products Co., Inc.
Littleford Bros., Inc.
Moretemp Heat Machine Co.

CONCRETE PAVING SPREADERS

Blaw Knox Company
Flexible Road Joint Machine Co.
Foote Co., Div., Blaw-Knox Co.
Jaeger Machine Company
Koehring Co.
Stow Manufacturing Co.
Whiteman Mfg. Company

CONCRETE PLACING EQUIPMENT

Chain Belt Company
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Ger-Bro Mfg. Co.
Insley Manufacturing Co.
Jaeger Machine Company
Koehring Co.
Kwik-Mix Company
Mixmobile Distributors, Inc.
Schield Bantam Company
Stow Manufacturing Co.

Thew Shovel Co.
Universal Form Clamp Co.
Whiteman Mfg. Co.

CONCRETE SAWS

Clipper Manufacturing Co.
Eveready Brick Saw Co.
Felker Mfg. Company
Skill Corporation
Thor Power Tool Co.

CONCRETE SURFACERS

Concrete Surfacing Machinery Co.
Flexible Road Joint Machy. Co.
Koehring Company
Mail Tool Company
Stow Manufacturing Co.
Thor Power Tool Co.
Whiteman Mfg. Company

CONVEYORS

Atlas Conveyor Co.
Baldwin-Lima-Hamilton Corp.
Barber-Greene Co.
Bauhman Mfg. Co.
Bodinson Mfg. Co.
Chain Belt Company
Conveyor Company
Diamond Iron Works
Fairfield Engineering Co.
Geo. F. Halss Mfg. Co.
Hercules Steel Products Co.
Iowa Mfg. Company
C.S. Johnson Company
Joy Manufacturing Co.
Kolman Mfg. Company
Lippman Engineering Works
Martin Iron Works
Materials Handling, Inc.
Noble Company
Oliver Corp.
Pioneer Engineering Works
Simplicity Engineering Works
Stephens-Adamson Mfg. Co.
Straub Mfg. Company
Tampo Manufacturing Co.
Thew Shovel Company
Universal Engineering Corp.

CRANES

American Hoist & Derrick Co.
Austin-Western Company
Badger Machine Company
Baldwin-Lima-Hamilton Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Clyde Iron Works
Colby Steel & Mfg. Co.
Cook Bros. Equipment Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Company
Hyster Co.
Insley Manufacturing Co.
Koehring Company
Le Tourneau-Westinghouse Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Manitowoc Engineering Works
Marion-Osgood-General
Michigan Clark Equipment Co.
Northwest Engineering Co.
Osgood-General
Pacific Car & Foundry Co.
Pettibone-Mulliken Corp.
Pitman Manufacturing Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Versatile Hydraulic Co.
Wayne Shovel & Crane Div.

CRANES, TRUCK

American Hoist & Derrick Co.
Austin-Western Company
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
General-Osgood Co.
Koehring Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Company
Hyster Co.
Insley Manufacturing Co.
Kenworth Motor Truck Corp.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Northwest Engineering Co.
Pettibone-Mulliken Corp.

Quick-Way Truck Shovel Co.
Skagit Steel & Iron Works
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Co.
Versatile Hydraulic Crane Co.
Wayne Shovel & Crane Div.

CRANES, WAGON

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Byers Mfg. Company
Cook Bros. Equipment Co.
Hanson Clutch & Machinery Co.
Insley Manufacturing Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Thew Shovel Co.
Wayne Shovel & Crane Div.

CRAWLERS

Allis-Chalmers Mfg. Co.
American Hoist & Derrick Co.
American Tractor Corp.
Austin-Western Co.
Baldwin-Lima-Hamilton Corp.
Badger Machine Co.
Browning Crane & Shovel Co.
Byers Mfg. Co.
Euclid Div., General Motors Corp.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Frank G. Hough Co.
International Harvester Co.
Koehring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Oliver Corp.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.

CRUSHERS

Baldwin-Lima-Hamilton Corp.
Brooks Equipment & Mfg. Co.
Browning Mfg. Co.
Buffalo-Springfield Roller Co.
Diamond Iron Works
Conveyor Company
Eagle Crusher Co.
Eagle Iron Works
Insley Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Manufacturing Co.
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Mfg. Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

CRUSHING PLANTS

Athey Products Corp.
Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Conveyor Company
Diamond Iron Works
Geo. Halss Mfg. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Nordberg Mfg. Co.
Pioneer Engineering Works
Smith Engineering Co.
Straub Mfg. Co.
Tampo Manufacturing Co.
Universal Engineering Corp.

CRUSHING ROLLS

Baldwin-Lima-Hamilton Corp.
Conveyor Company
Diamond Iron Works
Electric Steel Foundry Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

CULVERTS

Armo Drainage & Metal Products

CURB & GUTTER FORMS

Blaw Knox Co.
Dotmar Industries, Inc.
Hetzl Steel Form & Iron Corp.

Continued next column

Continued next column

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

Cataphote Corp.

Barco Manufacturing Co.
Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Ingersoll-Rand Co.
M.F. McGaffrey, Inc.
Schramm, Inc.
Tapp Power Tool Co.

American Motor & Derrick Co.
Clyde Iron Works
Four Wheel Drive Auto Co.
Sasnen Derrick Co.
Slagitt Steel & Iron Works
Superior-Lidgerwood-Mundy Corp.

Chicago Bridge & Iron Corp.
Electric Steel Foundry Co.

Electric Steel Foundry Co.
Pettibone-Mulliken Corp.
Schild Bantam Co.

Badger Machine Co.
Barber-Greene Co.
Be-Ge Manufacturing Co.
Briscoe Mfg. Co., Inc.
Cleveland Trencher Co.
Ger Wood Industries, Inc.
Gradall Div., Warner Swasey Co.
Jetco, Inc.
Koehring Co.
Northwest Engineering Co.
Parsons Company
Shawnee Mfg. Co.

American Hoist & Derrick Co.
Balwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Bethlehem-Pacific Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co. (Cons.) Div.
Colorado Fuel & Iron Corp.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hyster Co.
Insley Manufacturing Co.
Koehring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Malvaco Engineering Works
Marion-Osgood-General
Northwest Engineering Co.
Page Engineering Co.
Quick-Way Truck Shovel Co.
Schield Benton Co.
Stagall Steel & Iron Works
Theu Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

Eagle Iron Works
Essick Manufacturing Co.
Harnischfeger Corp.
Meiherington & Berner, Inc.
Little Giant Crane & Shovel Co.
Superior-Lidgerwood-Mundy Corp.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

Barco Mfg. Co.
Black & Decker Mfg. Co.
Brunner & Lay, Inc.
Bucyrus-Erie Co.
Eads Company
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Felker Mfg. Co.
Gardner-Denver Co.
Horsell-Rand Co.
Joy Manufacturing Co.
McCord Division
Mell Tool Co.
McDulloch Motors Corp.
Powder Power Tool Corp.
Salem Tool Co.
Skill Corp.
Thor Power Tool Co.
Timber Roller Bearing Co.
Ward Power Tools, Inc.
Winter-Weiss Co.
Wirthmeyer Corp.

Buffalo-Springfield Roller Co.
Flexible Road Joint Maching Co.

Anthony Company
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Gallion Allsteel Body Co.
Garwood Industries, Inc.
Hercules Steel Products Co.
Hill Company
Marion Metal Products Co.
Le Tourneau-Westinghouse Co.
Perfection Steel Body Co.
St. Paul Hydraulic Hoist Div.
Wagner-Wells Co.

Anthony Company
Athey Products Corp.
Beuchman Mfg. Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Co.
Le Tourneau-Massey-Harris Co.
Marion Metal Products Co.
M-R-S Mfg. Co.
Winter-Weiss Co.

Clipper Mfg. Co.
 Iowa Mfg. Company
 Madison Iron Works

Buda Company
Chicago Pneumatic Tool Co.
Four Wheel Drive Auto Co.
Mail Tool Co.
McCulloch Motors Corp.
Salem Tool Co.
Schramm, Inc.
Thor Power Tool Co.

Caterpillar Tractor Co.
Harnischfeger Corp.
Marrel Equipment Co.
D.W. Dean & Sons, Inc.
Ready Power Co.

- American Hoist & Derrick Co.
- Barber-Greene Co.
- Barthman Mfg. Co.
- Bodinson Mfg. Co.
- Botler Bie Company
- Colby Steel Form & Iron Co.
- Construction Machinery Co.
- Conveyor Company
- F.J.Cummer & Son Co.
- Heltzel Steel Form & Iron Co.
- Iowa Manufacturing Co.
- C.S. Johnson Company
- Madsen Iron Works, Inc.
- Neale Company
- O.K. Machinery Div.
- Lippman Engineering Works
- Stephens-Adams Mfg. Co.

Briggs & Stratton Corp.
Continental Motors Corp.
Crofton Company
McColloch Motors Corp.
D.W. Onan & Sons, Inc.
Wisconsin Motor Co.

Allis-Chalmers Mfg. Co.
Buda Company
... Tire Co.
Caterpillar Tractor Co.
Chicago Pneumatic Tool Co.
Cleveland Motors Corp.
Cummins Engine Co.
Detroit Diesel Engine Div.
Harnischfeger Corp.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
Kaiser Aluminum Co.
Morse Diesel Co.
Mortberg Mfg. Co.
Novo Engine Co.
Oliver Corp.
Page Engineering Co.
Scheidt Mfg. Co.
Waukegan Motor Co.
... Mfg. Co.

American Document Mfg. Co.
 American International Corp.
 B. Co. Company
 B. Co. Co.
 Cash. Mfg. Co.
 Chrysler Corp., Engine Div.
 Hercules Motor Corp.
 Home Life Corp.
 International Co.
 Le Roi Division
 Le Roi Motor Corp.
 Minneapolis-Moline Co.
 Minneapolis Mfg. Co.
 Navo Engine Co.
 Oliver Corp.
 D.W. Jones & Sons, Inc.
 Pacific Motor Corp.
 The Motor Co.

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1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
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 10. *Chlorophyll j* (Chl *j*)
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 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
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 26. *Chlorophyll z* (Chl *z*)
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Barber-Greene Co.
Blaw-Knox Co.
Donner Industries, Inc.
Flexible Road Joint Machine Co.
Foote Co., Div. Blaw-Knox Co.
Iowa Manufacturing Co.
Jaeber Machine Co.
Koering Co.
Madison Iron Works, Inc.
Whittemar Mfg. Co.

Four Wheel Drive Auto Co.
Knox Motor Truck Corp.
Knox Motor Truck Co.
Knox Motor Truck Corp.

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Atkey Industries Corp.
Barber-Greene Co.
Battibon-Mulliken Corp.

Economy Forms Co.
 General Concrete Accessories,
 General Form Mfg. Co.
 General Form and Co.

Erie Paper Co.
 Chicago Bridge & Iron Co.
 General Company
 Economy Forms Co.
 Hertzell Steel Form & Iron Co.
 Irvington Form & Test Co.
 Noble Company
 Symons Clamp Mfg. Co.
 Universal Form Clamp Co.

Mills-Chalmers Mfg. Co.
 American Tractor Equipment Co.
 Bacer-Hull Corp.
 J. I. Case Co.
 Clark Equipment Co.
 Dresser Mfg. Co.
 Geo. Heiss Mfg. Co.
 Frank G. Hough Co.
 Jaeger Machine Co.
 Le Roi Division
 Lockman Engineering Works
 Mixmobile Distributors, Inc.
 Oliver Corp.
 Perfection Steel Body Co.
 Pettibone Machine Corp.
 Reese Engineering Co.
 Tractomotive Corp.
 Ulrich Products Corp.
 White Manufacturing Co.

Anglo Dra. Page & Mays Prod. Co.
 Barber Bros. Company
 Bar-End Mfg. Co.
 Iowa Manufacturing Co.
 C. S. Johnson Co.
 Materials Handling, Inc.
 Morse Bros. Machinery Co.
 Noble Co.
 S. Morse Smith Co.
 Stephens-Adams Mfg. Co.
 Straub Mfg. Co.

- Eude Company
- Tomlin's Engine Co.
- Detroit Diesel Engine Div.
- Electric Tamping Equipment Co.
- Harnischfeger Corp.
- Robert Bros.
- Tomelike Corp.
- Jackson Vibrators, Inc.
- Le Tour Division
- Le Tourneau Divisionhouse Co.
- MacIsaac Power Tool Co.
- Melli Tool Co.
- Marvel Equipment Co.
- Master Vibrator Co.
- Morse Bros. Machinery Co.
- Murphy Diesel Co.
- Nordberg Mfg. Co.
- Norvo Co.
- D.W. Green & Sons, Inc.
- Seace Power Co.

J. D. Adams Mfg. Co.
Allis-Chalmers Mfg. Co.
American-Co. exmt Co.
Austin-Western Co.
Briscoe Mfg., Inc.
Caterpillar Tractor Co.
Galion Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Gracell Div., Warner-Sussex Co.
Huber Manufacturing Co.
Well-Blumberg Co.
Pacific Bone-Meal Co.
W. A. Fiddell Co.
Pione Grader Co.
M. S. S. Iron Works

J.D. Adams Mfg. Co.
Austin-Western Co.
Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Glen Iron Works & Mfg. Co.
Gleason Road Machinery Co.
Hessley Equipment Co.
Earle M. Jordansee Co.
Spang Mfg. Co.

Austin-Western Co.
Badger Machine Co.
Blaw-Knox Co.
Browning-Crane & Shovel Co.
Bucyrus-Erie Co.
Electric Steel Foundry Co.
H. P. McCaffrey, Inc.
Dyer Bucket Co.
Scott & Bostam Co.
Superior-Lidgerwood-Moody Co.
Mellins Engineering Co.

131H

GRAVEL PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Materials Handling, Inc.
Pioneer Engineering Works
Smith Engineering Works
Straub Mfg. Co.
Tempo Manufacturing Co.
Thew Shovel Co.
Universal Engineering Corp.

GRINDERS

Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
Dewalt, Inc.
Ingersoll-Rand Co.
Lippman Engineering Works
Mall Tool Company
Marvel Equipment Co.
Nordberg Mfg. Company
Skill Corporation
Stow Manufacturing Co.
Straub Mfg. Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Mfg. Co.

GRIZZLIES

Colorado Fuel & Iron Corp.
Convey Co.
Diamond Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Nordberg Mfg. Co.
Simplicity Engineering Co.
Smith Engineering Works
Straub Mfg. Co.
Symons Bros. Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

GRUBBER BLADES

Rockland Allied Equipment Corp.
Grott Manufacturing Co.

H

HAMMERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Black & Decker Mfg. Co.
Dotmar Industries, Inc.
Electric Steel Foundry Co.
Master Vibrator Co.
McKernan-Terry Corp.
Skill Corp.
Thor Power Tool Co.
Vulcan Iron Works

HAMMERMILLS

Brooks Equipment & Mfg. Co.
Diamond Iron Works
Eagle Crusher Co.
Geo. Helss Mfg. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Universal Engineering Corp.

HAND WINCHES

American Hoist & Derrick Co.
Claydon Iron Works, Inc.
Stagitt Steel & Iron Works
Stephens-Adamsen Mfg. Co.

HEATERS, PORTABLE

American Air Filter Co.
Herman Nelson Div.
Arthur Bachman Co.
Cleaver Brooks Co.
International Mfg. Co.
Jackson Vibrators, Inc.
Madsen Iron Works, Inc.
Malsbury Mfg. Co.
Silent Glow Oil Burner Corp.

HIGHWAY & STREET MARKERS

Cataphote Corp.
Meili-Blumberg Co.

HIGHWAY GUARD RAIL

U.S. Spring & Bumper Co.

HIGHWAY WIDENERS

Burch Corporation
Dotmar Industries, Inc.
Ulrich Products Corp.
Whiteman Mfg. Co.

HOISTS

American Hoist & Derrick Co.
Anthony Company
Bebe Bros.
Brooks Equipment & Mfg. Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clipper Manufacturing Co.
Clyde Iron Works, Inc.
Coffing Hoist Company
Construction Machinery Co.
Cook Bros. Equipment Co.
Essick Manufacturing Co.
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Grip-Hoist, Inc.
Harnischfeger Corp.
Heil Company
Hercules Steel Products Co.
Hyster Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
Le Tourneau-Westinghouse Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Novo Engine Company
O.K. Machinery Division
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Sawerman Bros., Inc.
St. Paul Hydraulic Div.
Sensen Derrick Co.
Stagitt Steel & Iron Works
Stephens-Adamsen Mfg. Co.
Sterling Machinery Co.
Superior-Lidderwood-Mundy Co.
Thomas Hoist Co.
Thor Power Tool Co.
Unit Manufacturing Co.
Versatile Hydraulic Crane Co.

HOPPERS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Manufacturing Co.
Butler Bin Company
Conveyor Company
Gar Wood Industries, Inc.
Hester-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Insley Manufacturing Co.
Koehring Co.
Noble Company
Lippman Engineering Works

HYDRAULIC COUPLINGS

American Tractor Equipment Corp.
Chiksan Company
Dixon Valve & Coupling Co.
Oliver Corporation
Twin Disc Clutch Co.
Ulrich Products Corp.

J

JACKS

Branick Manufacturing Co.
Bude Company
Duff Norton Mfg. Co.
Koehring Co.
Symons Clamp Mfg. Co.
Templeton, Kenly & Co.
Universal Mfg. Co.

JAW CRUSHERS

Baldwin-Lima-Hamilton Corp.
Brooks Equipment & Mfg. Co.
Conveyor Company
Diamond Iron Works
Eagle Crusher Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Pioneer Engineering Works
Smith Engineering Works
Straub Mfg. Company
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

JOINT INSTALLERS

Flexible Road Joint Machine Co.

K

KETTLES, HEATING

Aeroli Products Co., Inc.
Blaw Knox Company
Hauk Mfg. Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Salem Tool Company
Stender Steel Works
White Manufacturing Co.

KILNS

Madsen Iron Works, Inc.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Traylor Engineering & Mfg. Co.

L

LEAF COLLECTORS

Austin-Western Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Wayne Manufacturing Co.

LEVELLERS

American Tractor Corp.
Atlas Scraper & Mfg. Co.
Be-Ga Manufacturing Co.
Essick Mfg. Co.
Gledhill Road Machinery Co.
Oliver Corp.

LIFT GATES

Anthony Co.
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Hercules Steel Products Co.
Marion Metal Products Co.
S. Morgan Smith Co.
St. Paul Hydraulic Div.
Winter-Weiss Co.

LIGHTING PLANTS

Harnischfeger Corp.
D.W. Onan & Sons, Inc.
Ready Power Co., Inc.
U.S. Motors Corp.

LOADERS

Allis-Chalmers Co.
J.D. Adams Mfg. Co.
American Coleman Co.
American Tractor Corp.
American Tractor Equip. Corp.
Atney Products Corp.
Austin-Western Company
Badger Machine Co.
Baker-Lull Corp.
Barber-Greene Co.
Brooks Equipment & Mfg. Co.
J. I. Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Elmo Corp.
Euclid Div., General Motors Corp.
General Motors Div., Euclid
Geo. Helss Mfg. Co.
Harnischfeger Corp.
Frank G. Hough Co.
Hyster Co.
Jaeger Machine Company
Joy Manufacturing Co.
Lippman Engineering Works
Minneapolis-Moline Co.
Mixermobile Distributors, Inc.
Oliver Corp.
Perfection Steel Body Co.
Petlibone Mulliken Corp.
Oliver Corp.
Reese Engineering Co.
Schramm, Inc.
Stagitt Steel & Iron Works
Stephens-Adamsen Mfg. Co.
Tractomotive Corp.
Ulrich Products Corp.
Versatile Hydraulic Crane Co.
West Coast Machinery Co.

LOGGING ARCHES

Hyster Co.
LeTourneau-Westinghouse Co.
Pacific Car & Foundry Co.

M

MAGNETS

Austin-Western Co.
Oven Bucket Co.
Schield Bantam Co.
F.W. Shrader Co.

MAGNET CHARGERS

D.W. Onan & Sons, Inc.
Ready Power Co.

MAGNET REELS

McCaffrey-Ruddock Tagline Corp.
Oven Bucket Co.

MAINTAINERS

Austin-Western Co.
Burch Corporation
Gallon Iron Works & Mfg. Co.
Gledhill Road Machinery Co.

Continued next column

Huber Manufacturing Co.
Meili-Blumberg Corp.
Oliver Corp.
Tractomotive Corp.

MIXERS

Barber-Greene Company
Chain Belt Company
C. H. & E. Mfg. Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Dorr-Oliver, Inc.
Essick Manufacturing Co.
Foote Co. Div., Blaw Knox Co.
Gilson Bros. Co.
Iowa Manufacturing Co.
Jaeger Machine Company
Koehring Co.
C. S. Johnson Co.
Kwik-Mix Company
Madsen Iron Works, Inc.
Marlin Iron Works
Mixermobile Distributors, Inc.
Seaman Motors, Inc.
T. L. Smith Co.
Stephens-Adamsen Mfg. Co.
SuPremix, Inc.
Worthington Corp.

MIXING PLANTS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bin Company
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Conveyor Company
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C. S. Johnson Co.
Kwik-Mix Company
Mixermobile Distributors, Inc.
Noble Company
SuPremix, Inc.

MUD JACKS

Koehring Co.

O

OIL BURNERS

Aeroli Products Co., Inc.
Cleaver Brooks Co.
Littleford Bros., Inc.

OIL BOOSTERS

Cleaver Brooks Co.

P

PAVERS

Barber-Greene Co.
Blaw Knox Co.
Burch Corporation
Chain Belt Company
Dotmar Industries, Inc.
Doug-Lynn Mfg. Co.
Foote Construction Equipment Div.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
Pioneer Engineering Works
Worthington Corp.

PAVEMENT BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Division
Novo Engine Company
R. P. B. Corp.
Rockland Allied Equipment Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.
Worthington Corp.

PAVING FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Co.

PEN STOCKS

Chicago Bridge & Iron Corp.

PILE EXTRACTORS

Contractors Machinery Co.
McKernan-Terry Corp.
Vulcan Iron Works

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

PILE HAMMERS

Browning Crane & Shovel Co.
Clyde Iron Works, Inc.
Consolidated Machinery & Supply
Contractors Machinery Co.
Eagle Iron Works
Little Giant Crane & Shovel Co.
McKiernan-Terry Corp.
Schield Bantam Co.
Schramm, Inc.
Vulcan Iron Works

PILES, STEEL

Armco Drainage & Metal Prod. Co.
Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
Contractors Machinery Co.
L. B. Foster Co.

POWER CONTROL UNITS

Allis-Chalmers Mfg. Co.
Be-Ge Manufacturing Company
Baker Manufacturing Co.
Caterpillar Tractor Co.
Heli Company
International Harvester Co.
Kay, Brunner Steel Prod. Co.
Le Tourneau-Westinghouse Co.
Monarch Road Machy. Co.
Oliver Corp.
Pacific Car & Foundry Co.
West Coast Machinery Co.
Woodridge Mfg. Co.

POWER PLANTS

Detroit Diesel Engine Div.
Electric Taper & Equipment Co.
Fairfield Engineering Co.
Harnischfeger Corp.
Hobart Bros.
Homelite Corp.
Jackson Vibrators, Inc.
Kohler Company
Le Tourneau-Westinghouse Co.
Master Vibrator Co.
Maginnis Power Tool Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
D. W. Onen & Sons, Inc.
Ready Power Co.
Stephens-Adamson Mfg. Co.

POWDER ACTUATED TOOLS

Powder Power Tool Corp.
Remington Arms, Inc.
Ramset Fasteners, Inc.

POWER TAKE-OFFS

American Coleman Co.
American Tractor Corp.
Continental Motor Corp.
Davey Compressor Co.
Gar Wood Industries, Inc.
Hercules Steel Products Corp.
Perfection Steel Body Co.
Twin Disc Clutch Co.
Winter-Weiss Co.

PRE-FABRICATED HOMES

Harnischfeger Corp.

PRIME MOVERS

American Coleman Co.
Frank G. Hough Co.
Kenworth Motor Truck Corp.
Le Tourneau-Westinghouse Co.
Prime Mover Co.

PULL SHOVELS

American Holst & Derrick Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

PULVERIZERS

Eagle Crusher Company
Brooks Equipment & Mfg. Co.
Gibson Bros. Company
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Oliver Corp.
Perfection Steel Body Co.
Seaman Motors, Inc.
Straub Mfg. Co.
Universal Engineering Co.

PUMPS, POWER

Barnes Manufacturing Co.
Berkeley Pump Company
Ralph B. Carter Co.
Carver Pump Co.
Chain Belt Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Continental Motors Corp.
Dorr-Oliver, Inc.
Eisick Manufacturing Co.
Gardner-Denver Co.
Gorman-Rupp Co.
Homelite Corp.
Ingersoll-Rand Co.
Jaeger Machine Co.
Lincoln Engineering Co.
Mail Tool Co.
Marlow Pumps
Morse Bros. Machinery Co.
McCulloch Motors Corp.
Novo Engine Co.
Pacific Pumping Co.
Peerless Pump Div.
Quincy Compressor Co.
Morgan Smith Co.
Sterling Machinery Co.
Thor Power Tool Co.
Viking Pump Co.
Wausau Iron Works
Worthington Corp.

R

RAMMERS

Barco Manufacturing Co.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Warsop Power Tools, Inc.

REFLECTOR BUTTONS

Cataphote Corp.

REFUSE COLLECTION UNITS

Brooks Equipment & Mfg. Co.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Heli Company
Marion Metal Products Co.
St. Paul Hydraulic Div.

RIPPERS

American Tractor Corp.
Atlas Scraper & Engineering Co.
Baker Mfg. Company
Caterpillar Tractor Co.
Drott Mfg. Company
Electric Steel Foundry Co.
Gar Wood Industries, Inc.
Hensley Equipment Co.
Le Tourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
Pacific Car & Foundry Co.
Rockland Allied Equipment Corp.
Southwest Welding & Mfg. Co.
Tractomotive Corp.
Woodridge Mfg. Co.

ROAD MIXERS

Austin-Western Co.
Barber-Greene Co.
Burch Corp.
Foote Co., Div. Blaw Knox Co.
Harnischfeger Corp.
Kwik-Mix Company
Pettibone-Wood Mfg. Co.
Seaman Motors, Inc.

ROCK BITS

Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Hensley Equipment Co.
Ingersoll-Rand Co.
Earle M. Jorgensen Co.
Le Roi Div.
Schramm, Inc.
Timken Roller Bearing Co.
Thor Power Tool Co.
Winter-Weiss Co.

ROCK DRILLS

Barco Mfg. Co.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Eugene Engineering Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Division
Salem Tool Co.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.
Winter-Weiss Co.
Worthington Corp.

ROCKER SHOVELS

Elmco Corp.

ROCK & GRAVEL EQUIPMENT

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Geo. Halss Mfg. Co.
Frank G. Hough Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Straub Manufacturing Co.
Thew Shovel Co.
Unit Crane & Shovel Co.
Universal Engineering Corp.

ROCK & SAND DRYERS

Bodinson Mfg. Co.
Conveyor Company
Iowa Manufacturing Co.
Madsen Iron Works
Pioneer Engineering Works

ROLLERS, ROAD

All Purpose Spreader Co., Inc.
Austin-Western Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
C. H. & E. Mfg. Co.
Clyde Iron Works
Eisick Manufacturing Co.
Gallion Iron Works & Mfg. Co.
W.E. Grace Mfg. Company
Iowa Manufacturing Co.
Hensley Equipment Co.
Huber Manufacturing Co.
Hyster Co.
Le Tourneau-Westinghouse Co.
Browning Mfg. Co.
Littleford Bros., Inc.
Southwest Welding & Mfg. Co.
Tampo Mfg. Co.

ROTARY SNOW PLOWS

J. D. Adams Mfg. Co.
Austin-Western Co.
Wm. Bros. Boiler & Mfg. Co.
Four Wheel Drive Auto Co.
Oliver Corp.
Ulrich Products Corp.
Walter Motor Truck Co.

S

SAND BLASTING EQUIPMENT

Sanstorm Mfg. Co.
Schramm, Inc.
Victor Equipment Co.

SAWS, POWER

Black & Decker Mfg. Co.
C. H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clippier Mfg. Co.
Consolidated Machinery & Supply
Construction Machinery Co.
DeWalt, Inc.
Felker Mfg. Company
Homelite Corp.
McCulloch Motors Corp.
Mail Tool Co.
Oliver Corp.
Skill Corp.
Thor Power Tool Co.
Wright Power Saw & Tool Co.

SAW RIGS

C. H. & E. Mfg. Co.
Marvel Equipment Co.
Oliver Corp.

SCALES, CONTRACTORS

Butler Bin Co.
Construction Machinery Co.
Conveyor Company
C. S. Johnson Co.
L. R. Murphy Co.

SCAFFOLDING

Universal Mfg. Corp.

SCARIFIER TEETH

J. D. Adams Mfg. Co.
American Tractor Corp.
Austin-Western Co.
Baker Manufacturing Co.
Drott Mfg. Co.
Electric Steel Foundry Co.
Gallion Iron Works & Mfg. Co.
H & L Tooth Co.
Hensley Equipment Co.
Rockland Allied Equipment Corp.
Shunk Mfg. Co.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Equipment Co.
Atlas Scraper & Engineering Co.
Be-Ge Manufacturing Co.
Burch Corporation
Caterpillar Tractor Co.
Colorado Fuel & Iron Corp.
Elmco Corp.
Euclid Div., G. M. Co.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Heli Company
Le Tourneau-Westinghouse Co.
Oliver Corp.
Seuermann Bros.
Southwest Welding & Mfg. Co.
Woodridge Mfg. Co.

SCREENS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Colorado Fuel & Iron Corp.
Conveyor Company
Diamond Iron Works
Iowa Manufacturing Co.
Kolman Mfg. Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Overstrom & Sons
Pioneer Engineering Works
Screen Equipment, Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Symons Bros. Co.
Universal Engineering Corp.

SHEEPFOOT ROLLERS

Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Browning Mfg. Co.
Electric Steel Foundry Co.
Le Tourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
M. P. McCaffrey, Inc.
Southwest Welding & Mfg. Co.
Tampo Mfg. Co.

SHOVELS, POWER

American Holst & Derrick Co.
Austin-Western Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Caterpillar Tractor Co.
Clark Equipment Co. (Michigan)
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Mfg. Co.
Koehring Company
Link Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Works
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Schramm, Inc.
Thew Shovel Co.
Tractomotive Corp.
Unit Crane & Shovel Co.
Wayne Shovel & Crane Div.

SIDE WALK FORMS

Blaw Knox Co.

SIDE WALK PAVERS

Dotmar Industries, Inc.
Koehring Co.

SKID LOADERS

Drott Manufacturing Co.
Reese Engineering Co.
Hyster Co.

SMOKE STACKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Corp.

SN. PIES

Economy Forms Co.
Superior Concrete Accessories,
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

SNOW PLOWS

J.D. Adams Mfg. Company
American Tractor Corp.
Atlas Scraper & Engineering Co.
Austin-Western Co.
Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Burch Corporation
Colorado Fuel & Iron Corp.
Davenport-Besler Corp.
Four Wheel Drive Auto Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Kleaver Mfg. Co.
Le Tourneau-Westinghouse Co.
Oliver Corp.
Schramm, Inc.
Ulrich Products Corp.
Walter Motor Truck Co.
Wausau Iron Works

SNOW VEHICLES

American Coleman Co.
Tucker Sno-Cat Corp.
Walter Motor Truck Co.

SOIL COMPACTION UNITS

Austin-Western Co.
Baker Manufacturing Co.
Barco Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
Electric Tamping & Equipment Co.
W. E. Grace Mfg. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Le Tourneau-Westinghouse Co.
Tampo Manufacturing Co.
Vibro-Plus Products, Inc.
Weyer Impactor, Inc.

SOIL STABILIZERS

Austin-Western Co.
Harnischfeger Corp.
Hercules Steel Products Corp.
Rosco Manufacturing Co.
Seaman Motors, Inc.

SPREADERS

Baughman Mfg. Co.
Blaw Knox Co.
Burch Corporation
Essick Mfg. Co.
Foote Co., Div., Blaw Knox Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Hercules Steel Products Co.
Highway Equipment Company
Jaeger Machine Company
Standard Steel Works
Wausau Iron Works

STAND PIPES

Chicago Bridge & Iron Corp.

STEAM GENERATORS

Wm. Bros. Boiler & Mfg. Co.
Cleveland Boiler Co.
Littleford Bros., Inc.
Madsen Iron Works, Inc.
Malsbary Mfg. Co.
McKlernan Terry Corp.
Morse Bros. Machinery Co.

STEERING DEVICES

Garrison Mfg. Co.
Superior-Lidaerwood-Mundy Corp.

STORAGE BINS

Blaw Knox Company
Bodinson Mfg. Co.
Butler Bin Company
Chicago Bridge & Iron Co.
Construction Machinery Co.
Conveyor Company
Diamond Iron Works
Gar-Bro Mfg. Co.
Helsel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Koehring Co.
Lippman Engineering Works
Noble Company
Pioneer Engineering Works
Tampo Manufacturing Co.
Universal Engineering Corp.

STREET & HIGHWAY MARKERS

Cetaphote Corp.
Melli-Blumberg Co.

STREET FLUSHERS

E.D. Elvins & Co.
Gunnison Mfg. Co.
Hell Company
Municipal Supply Co.
Rosco Manufacturing Co.
Standard Steel Works

STREET SWEEPERS

Austin-Western Co.
Baker-Lull Mfg. Co.
Conveyor Company
W.E. Grace Manufacturing Co.
Municipal Supply Co.
Rosco Manufacturing Co.
Standard Steel Works
Wayne Mfg. Company

SUB GRADERS

Austin-Western Company
Blaw Knox Company

SUMP PUMPS

Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Mell Tool Company
Schramm, Inc.
Sterling Machinery Co.
Thor Power Tool Co.

T

TAG LINES

McGaffrey-Ruddock Tagline Corp.

TAMPERS

Barco Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Brunner & Ley, Inc.
Chicago Pneumatic Tool Co.
Cleveland Trencher Co.
Electric Tamping & Equipment Co.
Gar-Bro Mfg. Co.
Gardner-Denver Co.
Gunderson-Taylor Machine Co.
Ingersoll-Rand Co.
Jackson Vibrators, Inc.
Joy Manufacturing Co.
Le Roi Division
Master Vibrator Co.
R.P.B. Corp.
Schramm, Inc.
Thor Power Tool Co.
Vibro-Plus Products, Inc.
Weyer Impactor, Inc.
Whiteman Mfg. Company
Worthington Corp.

TAMPING ROLLERS

American Tractor Equipment Co.
Baker Manufacturing Co.
Blaw Knox Co.
Wm. Bros. Boiler & Mfg. Co.
W.E. Grace Manufacturing Co.
Hyster Co.
Iowa Manufacturing Co.
Lewis-Browning Mfg. Co.
Tampo Manufacturing Co.

TANDEM ROLLERS

Austin-Western Co.
Baker Manufacturing Co.
Buffalo-Springfield Roller Co.
C. H. & E. Mfg. Co.
Clyde Iron Works, Inc.
Essick Manufacturing Co.
Gallion Iron Works & Mfg. Co.
Lewis-Browning Mfg. Co.
W. A. Riddell Co.
Tampo Manufacturing Co.

TANKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Co.
Lippman Engineering Works
Littleford Bros., Inc.
Morse Bros. Mfg. Co.

TANK CAR HEATERS

W. Bros. Boiler & Mfg. Co.
Cleveland Brooks Company
W.E. Grace Mfg. Company
Littleford Bros., Inc.

TRACTORS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Buda Co. (Industrial)
J.L. Case Co.
Caterpillar Tractor Co.
Euclid Division, General Motors
Four Wheel Drive Auto Co.
Harris Manufacturing Co.
International Harvester Co.
Le Roi Company
Le Tourneau-Westinghouse Co.
Frank G. Hough Co.
Minneapolis-Moline Co.
Mixmobile Distributors, Inc.
M & S Manufacturing Co.
Oliver Corporation
Reese Engineering Co.
Wausau Iron Works

TRAFFIC LANE MARKERS

Cetaphote Corp.
Gledhill Road Machinery Co.
Melli-Blumberg Corp.

TRAFFIC SIGNS

Cetaphote Corp.
W.E. Grace Manufacturing Co.

TRAILERS

American Tractor Corp.
Athey Products Corp.
Cleveland Trencher Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors Corp.
Foster Trailer Company
Four Wheel Drive Auto Co.
Fruehauf Trailer Co.
Gallion Allsteel Body Co.
Hanson Clutch & Machy. Co.
John Trailer Division
La Crosse Trailer Corp.
Le Tourneau-Westinghouse Co.
Martin Machine Co.
Melli-Blumberg Corp.
Perfection Steel Body Co.
Rogers Bros. Corp.
Selma Manufacturing Co.
Schield Bantam Co.
Utility Trailer Mfg. Co.
Winter-Weiss Co.

TRANSMISSIONS

Fuller Manufacturing Co.
Stephens-Adamson Mfg. Co.
Winter Weiss Company

TRENCHERS

Badger Machine Co.
Barber-Greene Co.
Be-Ge Manufacturing Co.
Byers Mfg. Company
Cleveland Trencher Co.
Gar Wood Industries, Inc.
Gradall Division, Warner Swasey
Jetco, Inc.
Joy Manufacturing Co.
Koehring Co.
Northwest Engineering Co.
Oliver Corporation
Parsons Company
Quick-Way Truck Shovel Co.
Shavnee Mfg. Company

TRENCH HOES

Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel Co.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Electric Steel Foundry Co.
General-Osgood Co.
Gradall Div., Warner & Swasey Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
Manitowoc Engineering Corp.
Northwest Engineering Co.
Oliver Corp.
Schield Bantam Co.
Shavnee Mfg. Company
The Shovel Company
Unit Crane & Shovel Corp.
Wayne Crane Division

TRUCKS

American Coleman Company
Cook Bros. Equipment Co.
Dart Truck Company
Euclid Div., General Motors Corp.
General Motors-Euclid Div.
Four Wheel Drive Auto Co.
HMC Truck & Coach Div.
International Harvester Co.
Kenworth Motor Truck Corp.
Koehring Co.
Mack Motor Truck Corp.
Marmon-Herrington Co.
Oshkosh Motor Truck, Inc.
Peterbilt Motor Co.
Sterling Div., White Motor Co.
Walter Motor Truck Co.
White Motor Co.
Winter-Weiss Co.

TRUCK BODIES

Anthony Company
Baughman Mfg. Co.
Cook Bros. Equipment Co.
Fruehauf Trailer Co.
Gallion Allsteel Body Co.
Gar Wood Industries, Inc.
Hell Company

Hercules Steel Products Corp.
Perfection Steel Body Co.
St. Paul Hydraulic Div.
Trailmobile Company
Winter-Weiss Company

TRUCK CRANES

American Hoist & Derrick Co.
Austin-Western Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Brooks Equipment & Mfg. Co.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
The Shovel Co.
Unit Crane & Shovel Corp.
Versatile Hydraulic Crane Co.
Wayne Shovel & Crane Division

TRUCK MIXERS

Blaw Knox Co.
Link Belt Company
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Jaeger Machine Co.
Kenworth Motor Truck Corp.
LeRoi Company
Koehring Co.
Mixmobile Distributors, Inc.
T.L. Smith Company
Worthington Corp.

TRUCK SHOVELS

American Hoist & Derrick Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Mfg. Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gradall Div., Warner & Swasey Co.
Hanson Clutch & Machy. Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
The Shovel Co.
Wayne Crane Division

TUNNEL & DAM FORMS

Blaw Knox Co.
Chicago Bridge & Iron Corp.
Conveyor Company
Irvington Form & Tank Co.
Superior Concrete Accessories
Symons Clamp Mfg. Co.

V

VACUUM FILTERS

Chicago Bridge & Iron Co.
Darr-Oliver, Inc.
Elmo Corp.

VALVES

American Tractor Equipment Corp.
Atlas Scraper & Engineering Co.
Brantick Mfg. Company
Dixon Valve & Coupling Co.
Garrison Mfg. Co.
Madsen Iron Works, Inc.
Martin Iron Works
Reese Engineering Co.
S. Morgan Smith Co.

VIBRATORS

Blaw Knox Co.
Butler Bin Company
Chicago Pneumatic Tool Co.
Conveyor Company
Dreyer Vibrator Co.
Electric Tamping & Eqpt. Co.
Gar-Bro Mfg. Co.

Continued next column

Continued next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

VIBRATORS, Continued

Ingersoll-Rand Company
Jackson Vibrators, Inc.
Magnis Power Tool Co.
Mall Tool Company
Marvel Equipment Co.
Master Vibrator Co.
Overstrom & Sons
Stephens-Adams Mfg. Co.
Stow Manufacturing Co.
Thor Power Tool Co.
Vibro Company
Vibro-Plus Products, Inc.
Waver Impactor, Inc.
White Manufacturing Co.
Whiteman Mfg. Company

VIBRATORY SCREEDS

Blaw Knox Company
Bodinson Mfg. Company
F.D. Cummer & Son Company
Electric Tamper & Eqpt. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Master Vibrator Co.
Lippman Engineering Works
Simplicity Engineering Co.
Smith Engineering Works
Stow Manufacturing Co.
Vibro-Plus Products, Inc.

W

WAGONS

Allis-Chalmers Mfg. Co.
Athey Products Corp.
Caterpillar Tractor Co.
C & D Manufacturing Co.
Dart Truck Company
Insley Manufacturing Co.
M R S Mfg. Company
Oliver Corp.
Perfection Steel Body Co.
Selma Trailer & Mfg. Co.
Southwest Welding & Mfg. Co.
Woodbridge Mfg. Co.

WAGON CRANES

American Hoist & Derrick Co.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Hanson Clutch & Machy. Co.
Insley Manufacturing Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Division

WAGON DRILLS

Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Division
Schramm, Inc.
Thor Power Tool Co.
Versatile Hydraulic Crane Co.
Worthington Corp.

WASHING PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Conveyor Company
Diamond Iron Works
Eagle Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adams Mfg. Co.
Tampo Manufacturing Co.
Universal Engineering Corp.

WEIGHING BATCHERS

Blaw Knox Company
Bodinson Mfg. Company
Butler Bin Company
Construction Machinery Co.
Conveyor Company
Gar-Bro Mfg. Co.
Iowa Mfg. Co.
C.S. Johnson Co.
Koehring Co.
Noble Company

WELDERS

Harnischfeger Corp.
Hobart Bros.
Lincoln Electric Co.
National Welding Equipment Co.
Victor Equipment Co.

WHEELBARROWS

Gar-Bro Mfg. Company
Koehring Company
Kwik-Mix Company
Prime Mover Company

WHIRLEYS

American Hoist & Derrick Co.
Clyde Iron Works, Inc.

WINCHES

American Hoist & Derrick Co.
American Tractor Corp.
Beebe Bros.
Chicago Pneumatic Tool Co.
Clyde Iron Works, Inc.
Essick Manufacturing Co.
Four Wheel Drive Auto Co.
Gar Wood Industries, Inc.
Grip-Holst, Inc.
Hyster Co.
Maxl Corporation
O.K. Machinery Division
Pacific Car & Foundry Co.
Sasoon Derrick Co.
Skagit Steel & Iron Works
Stephens-Adams Mfg. Co.
Superior-Lidgerwood-Mundy Corp.
Winter-Weiss Co.

WIRE ROPE

American Chain & Cable Co., Inc.
Bethlehem Pacific Coast Steel Co.
Broderick & Bascom Rope Co.
Colorado Fuel & Iron Corp.
Columbia-Geneva Steel Co.
E.H. Edwards Co.
Jones & Laughlin Steel Corp.
Leschen Rope Division
Le Tourneau-Westinghouse Co.
Macvay Company
Pacific Wire Rope Co.
John A. Roebling Sons Corp.
Saueremann Bros.
Union Wire Rope Co.
Wickwire Spencer Steel Division

WOODWORKING MACHINERY

Black & Decker Mfg. Co.
Consolidated Machy. & Supply Co.
DeWalt, Inc.
Skil Corporation

ADVERTISING TO THE CONSTRUCTION INDUSTRY OF THE WEST AND ALASKA IS A REGIONAL JOB

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

AND

**WESTERN CONSTRUCTION
IS THE ONE PUBLICATION
THAT COVERS ALL THE WEST'S
BIG AND GROWING
CONSTRUCTION MARKET**

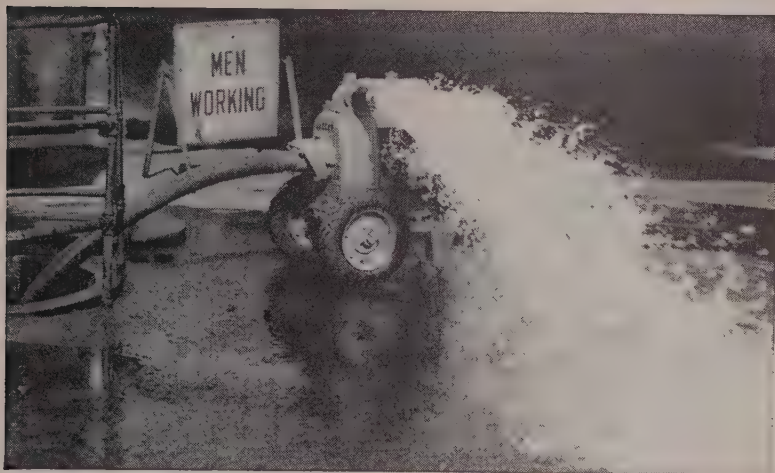
**C. I. T. finances installment sales
of equipment for many Distributors**

TRADE NAMES OF MANUFACTURERS

Only when the name of a product differs from the name of the manufacturer is that brand or Trade Name listed in the Directory below.

| | | |
|--|--|---|
| Acco.....American Chain & Cable Co. | Heat Treat.....U.S.Spring & Bumper Co. | Roelclad.....John A. Roebeling Sons Corp |
| Adhuns.....Foote Co-Div. Blaw Knox Co. | Helco.....Heltzel Steel Form & Iron | Record....." " " " " |
| Aeroquip.....Aero Coupling Co. | Hercules....." " " " " | Roelweld....." " " " " |
| Alrco.....Air Reduction Pacific Co. | Red Strand.....Leschen Wire Rope Div. | Roll-O-Matic.....Construction Machinery Co. |
| Alr-Plus.....The Jaeger Machine Co. | Hi-Lectric.....Maginnis Power Tool Co. | Roll-O-Matic.....Gallon Iron Works & Mfg. Co. |
| Alr-Mite.....Dotmar Industries, Inc. | Hill-Billy.....Insley Mfg. Company | Roll-Toe.....Templeton, Kenly & Co. |
| Alroviber.....Viber Company | Hi-Lo.....Concrete Transport Co. | Ross Snow Plows.....The Burch Corp. |
| Alto.....Aluminum Co. of America | Hi-Loader.....Athey Products Corp. | Roto-Travel.....Slow Mfg. Company |
| Altia.....Gorman-Rupp Co. | Hi-Speed.....Baughman Mfg. Company | Roto-Valves.....S. Morgan Smith Co. |
| American.....American Hoist & Derrick Co | Hi-Way.....Highway Equipment Co., Inc | Roustabout.....Hughes-Keenen Corp. |
| American Crosby....." " " " " | Hoe Boy.....Construction Machinery Co. | Roust Crown.....Madsen Iron Works, Inc. |
| Amso.....Amer. Manganese Steel Div. | Hoist-All.....Coffing Hoist Co. | Rubberide.....Utility Trailer Mfg. Co. |
| Ascor.....Alloy Steel Corp. | Hoist-Digger.....Bader Machine Company | Rud-O-Matic.....McCaffrey Ruddock Tag. Co. |
| Ateco.....Amer. Tractor Equipment Corp | Horizon.....Chicago Bridge & Iron Co. | Runabout.....Barber-Greene Co. |
| Atlas.....Cape Pacific, Ltd. | Hundinor.....Ralph B. Carter Co. | |
| Autocraft.....Austin-Western Co. | Hydra-Lift.....Pitman Mfg. Company | |
| Automatic.....Pace Engineering Co. | Hydrepair.....Dresser Mfg. Division | |
| | Hydrocrane.....Bucyrus-Erie Co. | |
| | Hydrohoe....." " " " " | |
| | Hydromite.....Ralph B. Carter Co. | |
| | Hydro-Spring.....Drott Mfg. Company | |
| | Hy-Lo-Jack.....Monarch Road Machinery Co. | |
| | Hy-Lo-Jep....." " " " " | |
| | Hystaway.....Hyster Co. | |
| | | |
| | Impactor.....Weyer Impactor Co. | |
| | Insulok.....Dresser Mfg. Division | |
| | Intelli-Giant.....Chickson Company | |
| | | |
| | Jenny.....Templeton, Kenly & Co. | |
| | Jelcrete.....Construction Machinery Co. | |
| | Jiffy Link.....Page Engineering Co. | |
| | Jiffy Teeth.....Jefco, Inc. | |
| | | |
| | Koolite.....National Welding Ept. Co. | |
| | Kompactor.....Buffalo-Springfield Roller | |
| | Kue-Ken.....Kuehn Engineering Works | |
| | KW.....Kenworth Motor Truck Corp. | |
| | Kwik-Melter.....Littleford Bros., Inc. | |
| | Kwik-Steam....." " " " " | |
| | | |
| | Ladscaf.....Universal Mfg. Co. | |
| | Lav-Set.....American Chain & Cable Co. | |
| | Lew.....Baldwin-Lima-Hamilton Corp | |
| | Little Monster.....Madsen Iron Works, Inc. | |
| | Load King.....Cook Bros. Equipment Co. | |
| | Load-Plus.....The Jaeger Machine Co. | |
| | Long Bowl.....Electric Steel Foundry Co. | |
| | Lorain.....The Shovel Co. | |
| | Lubrovans.....Lincoln Engineering Co. | |
| | | |
| | McCarthy Drills.....The Salem Tool Co. | |
| | Mayerl-P.....Bethlehem Pac. Coast Steel | |
| | Michigan.....Clark Equipment Co. | |
| | Mighty Midact.....Coffing Hoist Company | |
| | Mine King.....Goodall Rubber Co. | |
| | Mississippil.....M-R-S Mfg. Co. | |
| | Mite-Mite.....Harnischfeger Corp. | |
| | Mixal.....Barber-Greene Co. | |
| | Mix-Plus.....The Jaeger Machine Co. | |
| | Model 481.....Madsen Iron Works, Inc. | |
| | Mo-St.....Morse-Starratt Products Co | |
| | Moto-Bug.....Kwik-Mix Company | |
| | Moto Mixer.....Chain Belt Company | |
| | Moto Patcher.....Hetherington & Berner, Inc | |
| | Moto Paver....." " " " " | |
| | Multifoote.....Foote Div., Blaw Knox Co. | |
| | Murex.....Metal & Thermit Co. | |
| | | |
| | National.....National Welding Ept. Co. | |
| | | |
| | Omaha.....Drake-Williams-Mount Co. | |
| | On-The-Square.....Madsen Iron Works, Inc. | |
| | Os-A-Vivor.....Simplicity Engineering Co. | |
| | | |
| | Pace Make.....Universal Engineering Corp | |
| | Pace Maker.....Cook Bros. Equipment Co. | |
| | Pakut.....National Welding Ept. Co. | |
| | P & H.....Harnischfeger Corp. | |
| | Paradrell.....Hetherington & Berner, Inc | |
| | Payloader.....Frank G. Hough Co. | |
| | Peak-Temp.....Cleaver Brooks Company | |
| | Pile-Pounder.....Littleford Bros., Inc. | |
| | Pneumadver.....Schramm, Inc. | |
| | Pneumefeed....." " " " " | |
| | Pneumajack....." " " " " | |
| | Pneumapaver....." " " " " | |
| | Pneumastal....." " " " " | |
| | Pneumatractor....." " " " " | |
| | Powerloader.....J.I. Case Company | |
| | Power Vane.....Chicago Pneumatic Tool Co. | |
| | Pulvi-Mixer.....Seaman Motors, Inc. | |
| | Pumpcrete.....Chain Belt Company | |
| | Purple Strand.....Bethlehem Pac. Coast Steel | |
| | | |
| | Quick-Lift.....Coffing Hoist Co. | |
| | | |
| | Redi-Fab.....Barber-Greene Co. | |
| | Red Seal.....Continental Motors Corp. | |
| | Red Strand.....Leschen Rope Division | |
| | Remotrol.....Templeton, Kenly & Co. | |
| | Res.....Chain Belt Co. | |
| | Rhino.....Shunk Mfg. Company | |
| | Roc-Jak.....K.O. Duncan Co. | |
| | Rocket.....Concrete Transport Co. | |
| | | |
| | Saco.....Stephens-Adamsen Mfg. Co. | |
| | Sacon....." " " " " | |
| | Safety Pull.....Coffing Hoist Company | |
| | Scoopmobile.....Mixermobile Distributors | |
| | Sealmaster.....Stephens-Adamsen Mfg. Co. | |
| | Seco.....Screen Equipment Co., Inc. | |
| | Sierra.....Harnischfeger Corp. | |
| | Simpler.....Templeton, Kenly & Co. | |
| | Simpli-Flow.....Simplicity Engineering Co. | |
| | Skid-Loader.....Drott Mfg. Company | |
| | Skid-Shovel....." " " " " | |
| | Smith Mobile.....T.L. Smith Company | |
| | Sno-Cat.....Tucker Sno-Cat Corp. | |
| | South Bend.....Municipal Supply Co. | |
| | Speedall.....Pettibone-Mulliken Corp. | |
| | Speed Grader....." " " " " | |
| | Speedloader....." " " " " | |
| | Speedmaster.....Dotmar Industries, Inc. | |
| | Speed-O-Matic.....Link Belt Speeder Corp. | |
| | Speed Swine.....Pettibone-Mulliken Corp. | |
| | Spiroluc....." " " " " | |
| | | |
| | St. Form Ties.....Universal Form Clamp Co. | |
| | Spray Leader.....Littleford Bros., Inc. | |
| | Spray Master....." " " " " | |
| | Steffan.....National Welding Ept. Co. | |
| | Steen-Power.....Coffing Hoist Company | |
| | Sure-Prime.....The Jaeger Machine Co. | |
| | Suede.....Cape Pacific, Ltd. | |
| | Sulindex.....Eagle Iron Works | |
| | Super-loader.....Stephens-Adamsen Mfg. Co. | |
| | Symons.....Nordberg Mfg. Company | |
| | | |
| | Tampo.....Tampo Mfg. Co. | |
| | Tanker.....Littleford Bros., Inc. | |
| | Telematic.....Anthony Company | |
| | Tellevel.....Stephens-Adamsen Mfg. Co. | |
| | Tel-Smith.....Smith Engineering Works | |
| | Terra Cobre.....Woodridge Mfg. Co. | |
| | Terra-Lift.....American Tractor Co. | |
| | Terraloder....." " " " " | |
| | Terratrac....." " " " " | |
| | | |
| | Thew Lorain.....Thew Shovel Company | |
| | Thor.....Thor Power Tool Co. | |
| | Thor Brand.....Clough Steel Co. | |
| | Tifnor.....Gripolast, Inc. | |
| | Torcon.....Clark Equipment Co. | |
| | Tourn.....Le Tourneau-Westinghouse Co | |
| | Tovernobile.....Mixermobile Distributors, Inc | |
| | Tractair.....Le Roi Division | |
| | Tracto.....Tractomobile Corp. | |
| | Tracto Winch.....American Hoist & Derrick Co. | |
| | Trail-O-Roller.....Littleford Bros., Inc. | |
| | Transcrete.....Construction Machinery Co | |
| | Transport.....Concrete Transport Mixer Co | |
| | Travloader.....J.D. Adams Mfg. Co. | |
| | Travel-Plant.....Seaman Motors, Inc. | |
| | Trenchmobile.....Parsons Company | |
| | Triplex.....Gunderson-Taylor Machv. Co. | |
| | Tru-Lav.....Doug Lynn Company | |
| | Tuffy.....Union Wire Rope Co. | |
| | Tuqcer.....Construction Machinery Co. | |
| | Twinbatch Paver.....Koehring Company | |
| | Twistite.....Stephens-Adamsen Mfg. Co. | |
| | Twistyles.....Universal Form Clamp Co. | |
| | | |
| | Uniform Panels.....Universal Form Clamp Co. | |
| | Unimellit.....Linde Air Products Co. | |
| | Unistage.....Schramm, Inc. | |
| | Util-A-Tool.....Templeton, Kenly & Co. | |
| | | |
| | Vari-Packer.....Littleford Bros., Inc. | |
| | Velvetouch.....S.K. Wellman Co. | |
| | Vibler.....Viber Corp. | |
| | Vicrometer.....Victor Equipment Co. | |
| | | |
| | Warco.....W.A. Riddell Co. | |
| | Warrior Rollers.....Gallon Iron Works & Mfg. Co. | |
| | Wemco.....Western Machinery Co. | |
| | Whirlites.....Clyde Iron Works, Inc. | |
| | Whirlwires....." " " " " | |
| | Windoline.....Colorado Fuel & Iron Corp. | |
| | Window Loader.....Barber-Greene Co. | |
| | Wonder.....Construction Machinery Co. | |
| | | |
| | Yellow Strand.....Broderick & Bascom Rope Co. | |
| | | |
| | Zephyrcrane.....Link Belt Speeder Corp. | |

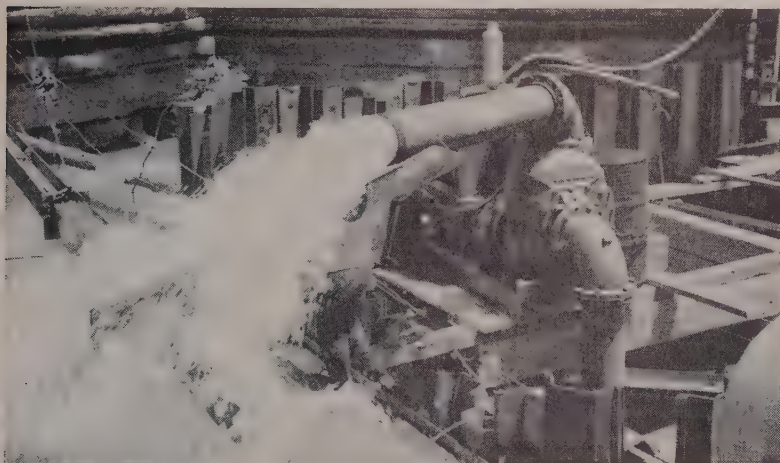
Hi-performance Jaeger pumps cut water-handling costs



New Model 2PN moves all the water a 2" hose can handle

This latest Jaeger 2" pump delivers its rated 10,000 gph when operating at only 2400 to 2550 rpm (as much as 400 rpm slower than similar pumps). It will actually pump all the water that can be pulled through a 2" suction line under average pumping conditions. You'll find it conservatively rated, even at heads

well above 100 ft. Weighs only 190 lbs. including big pneumatic tires, measures only 24" x 21" x 26" high, yet it's built for heavy duty service with 20% steel shell, reversible liner plate, long-life Jaeger Lubri-Seal on shaft, impeller adjustable for wear and powerful Wisconsin AKN engine of 5.3 hp at 2500 rpm.



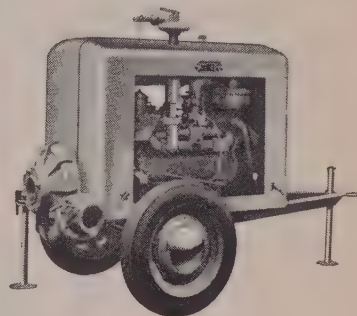
Pumping 4,000 gpm with low-cost diesel power

Because they develop their full rated volume at low operating speeds, big Jaeger pumps are ideally suited for diesel operation on big cofferdam and well point work. The Jaeger Model 10PD above is pumping 4000 gpm at 1500 rpm. This high efficiency at fuel-saving, engine-saving speeds is an ex-

clusive characteristic of Jaeger "Sure-Prime" pumps. It requires larger shells and impellers but pays off in performance. Jaegers prime without engine-racing, don't vapor-lock on hard pulls, consume less fuel and average thousands of hours longer service than pumps that must run at higher speeds.

Latest type jetting pumps in 3", 4", 5", 6" sizes

For a wide range of volumes, and pressures up to 275 psi, Jaeger has developed the most modern type of high pressure pumps... self-priming at the rate of 1 second per foot of lift, equipped with enclosed impellers, labyrinth sealing rings, positively lubricated shaft seals, automatic spring-actuated check valves, heat-resisting stellite-valved engines:



Model 3CPH delivers 420 gpm at 40 lbs., 125 gpm at 130 lbs., with air-cooled Wisconsin VF-4 (25 hp @ 2400 rpm).

Model 4CPH delivers 700 gpm at 75 lbs., 325 gpm at 200 lbs., with 6 cylinder engine of 218 cu. in. displacement (80 hp @ 2500 rpm).

Model 5CPH delivers 825 gpm at 80 lbs., 200 gpm at 250 lbs., with 6 cylinder engine of 236 cu. in. displacement. (95 hp @ 2600 rpm).



1 1/2" to 10" Electric Pumps

Jaeger "Sure Prime" pumps with electric motor drive are available for all types of dewatering, including the operation of Jaeger Well Point Systems. The characteristic low speed (1150 rpm) operation of Jaeger 6" to 10" electric pumps results in much longer life. Jaeger's oversize shells, holding more priming water, also prevent overheating and vapor-lock even when exhausting the longest well point header lines.

For engineering service on pumping problems, or specific information about any Jaeger pumps, see your Jaeger distributor or write. For file data, request Catalog P-4.

Sold and Serviced by:

| | |
|-----------------------|--------------------------------------|
| EDWARD R. BACON CO. | San Francisco 10 |
| NELSON EQUIPMENT CO. | Portland 14 |
| WESTERN MACHINERY CO. | Salt Lake City, Denver 4, Spokane 11 |
| SHRIVER MACHINERY CO. | Phoenix |
| J. D. COGGINS & CO. | Albuquerque |

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| SMITH BOOTH USHER CO. | Los Angeles 54 |
| A. H. COX & CO. | Seattle 4 and Tacoma |
| THE SAWTOOTH CO. | Boise and Twin Falls, Idaho |
| TRACTOR & EQUIPMENT CO. | Sidney, Miles City, Glasgow |
| CENTRAL MACHINERY CO. | Great Falls and Havre |
| WORTHAM MACHINERY CO. | Cheyenne, Wyo. |

See manufacturer's listing page 31H, Yellow Section

REPORTS from the COURTS

By HOWARD S. BURNSIDE, Attorney and Registered Engineer

Smog-cancer-judgment for plaintiff

"The way the stacks were acting was characterized as an 'inversion' . . . where the fumes normally emitted from the stacks come downward because of atmospheric conditions, instead of going upward.

"About 7:00 P.M. telephone complaints began to come into the plant.

"About 7:45 P.M. the fumes within the plant were so dense that Hicken and Whitman had to put on their gas masks (which generate their own supply of oxygen).

"The longer the plant operated, the heavier became the smog, and at 8:25 P.M. the plant was shut down as an emergency measure.

"A Standard Oil employee working . . . close by . . . noticed . . . a fog bank coming in . . . which burned his nose and throat, so that he put on a gas mask. Others did likewise.

"At approximately 8:00 P.M. Mr. and Mrs. Hagy . . . on their way home . . . drove past the Allied plant and through the smog. It made them cough . . . and Mrs. Hagy even fainted.

"The theory of plaintiff's case is (1) that Mrs. Hagy had cancer of the larynx before her exposure to the smog but . . . did not know it; (2) that her exposure and the irritation therefrom 'lighted up' the dormant cancer; (3) that she lost her voice; (4) that her doctors then . . . determined . . . that she had a cancer of the larynx . . . [which was removed by an operation] . . . and (6) that such operation might have been averted had she not been exposed to the smog and the irritation therefrom."¹

The jury concluded that the sulphuric acid fumes aggravated the pre-existing cancer and in their verdict awarded the sum of \$25,000. Testimony of medical experts was voluminous and was given for both the plaintiff and defendant. The judgment was affirmed on appeal.

This case is regarded by some as a step forward in the development of the law of negligence and by others as a step backward. In any event it demonstrates the high degree of "public responsibility" required today in industrial operations.

¹ Hagy v. Allied Chemical & Dye Corp. 365 P. 2d 86.

Practice of professional engineering by unlicensed person

In September 1947 an amendment to the California "engineer-registration" law became effective. This amendment provided for the regulation of professional engineers in the branches of chemical, electrical, mechanical, and petroleum engineering. At the outset and until June 20, 1948, persons with certain qualifications could apply for and secure registration without examination. Later applicants would have to take an examination. It was provided that the use by a person of the title professional engineer, mechanical engineer, etc., unless the person was registered, would be unlawful and a misdemeanor. However, in contrast to the civil engineering portion of the act, the statute did not make it unlawful for an unregistered person to practice professional engineering.

In April and June 1948 the plaintiff contracted with the defendant for certain engineering services. His letterhead identified him as an electrical as well as a mechanical engineer. In late May he had notice of unfavorable (but not final) action on his application for electrical engineering registration under the "grandfather" clause. He had already received his certificate as a mechanical engineer.

When the relations between the parties broke down at a later date, the plaintiff was unpaid and brought legal action. One of the defendant's arguments was that the practice of electrical engineering was unlawful. The defendant's argument was based on the foregoing facts which are greatly condensed. A judgment for the plaintiff was affirmed.

It is interesting to note that the appellate court observed but did not decide the question of whether the statute does actually make the practice of professional, mechanical, or electrical engineering by an unlicensed person unlawful.

From a legal standpoint this is important. The practice of civil engineering or architecture or operating as a contractor without a proper license is specifically prohibited. This means that one who contracts for such work cannot enforce his contract and be paid under it. Whether

this is true of the practice of professional engineering is an open question.

Kelly v. David D. Bohannon Organization.
119 C. A. 2d 787.

Expensive breach of oral contract

The high cost of a breach of contract is demonstrated again in a recent California decision. In *Western Construction*, September 1954¹, a subcontractor recovered against the general contractor for a "hasty" exercise of the option to terminate. In the present case, *Empire Steel Building Co. v. Harvey Machine Co.*², the construction contractor obtained a judgment for \$29,400 loss of profits against an owner that failed to perform its oral contract. The facts which follow are the essential elements of the breach.

The contractor was constructing a "pot room" at the owner's premises when they were asked by the owner to bid on the steel and concrete work for a foundry building. The bid submitted stated a fixed price for the steel work with a lower alternate price if the concrete work was also awarded, a separate price being given for concrete work. The steel work was awarded while negotiations were going on to reduce the total price. Finally, an oral agreement was reached between an officer of each company on a price, according to the testimony of one of the contractor's officers. Engineering work had already started on the steel-work.

Ten days later, the owner's president telephoned. "It looks like we will have to abandon the foundry building. As you know, we are having trouble with the building department getting our permit . . . so don't do anything further on the job and we will pay you for your expense and engineering." Later in the day, upon learning the building permit was issued that same day the contractor's officer called the owner back and asked for an explanation. He was informed, "Well, you are \$30,000 high . . . Do you want to cut your price?" The contractor's response was that he didn't want to cut his price, that he intended to perform his part of the contract and expected the owner to do the same. Later the owner entered into a written contract with another firm for a price about \$14,000 under the oral contract price and the present action followed resulting in a judgment for plaintiff.

The owner denied the existence of a contract at all times.

Oral contracts are not easy to prove; and as a rough rule of thumb, the larger the sum involved the more difficult the proof.

¹ *Western Construction* Sept. 1954, p. 24.
² *Empire Steel Bldg. Co. v. Harvey Mach. Co.* 265 P. 2d 32.



Pioneers in Concrete Cutting!

**Get MORE footage with
MAXIMUM blade economy!**

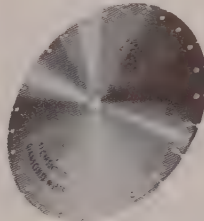
Felker DI-MET concrete cutters are the result of continuous development and improvement to meet the needs of the construction industry. Straight cutting, fast, easy to maneuver, these machines offer the rigidity, strength and power for all jobs from ordinary patchwork to heavy-duty construction applications.



Felker DI-MET Model 252—The ultimate in heavy-duty machines. 26 h.p. Wisconsin engine with starter and generator provides surplus of power for fast, deep cutting. Uses blades up to 18", cuts to 6½" depth, right or left hand operation. Built-in power drive and water pump reduce labor, increase footage, insure straight cutting.



Felker DI-MET SPAN-SAW—The answer to joint cutting in new highway and airport concrete construction! Multiple diamond blades make short work of transverse cuts. Machine spans concrete slab, rides on header boards or slab, saws at desired intervals. Cuts costs, minimizes manpower!



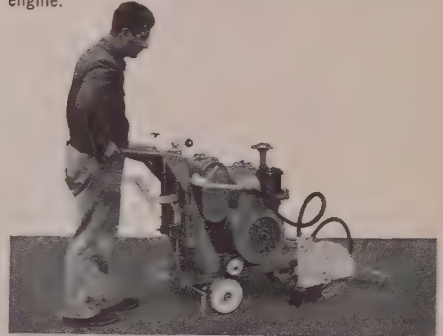
Felker DI-MET Segmented Type DIAMOND ABRASIVE WHEELS—Leading diamond wheel for long life, greatest economy, more footage! Rugged, fast cutting. Stiff, correctly tensioned tempered steel core for maximum resistance to deflection. 6" to 24" diameters. Many bond variations and wheel specifications to assure best results on your job!

Felker DI-MET MASONRY SAW—Ahead of the field in speed, convenience and easy operation! Cuts all masonry materials. 26" throat capacity (spindle center to table top.) All arbor height adjustments and controls at operator's position in front of machine. Husky 1½ h.p. 110-220V repulsion-induction motor. Available with or without coolant pump for wet or dry cutting.

Write for Literature
and Quotations!



Felker DI-MET Model 100—Light, powerful, with unexcelled maneuverability. An excellent "budget priced" concrete cutter for all maintenance, light repairs and municipal applications. 12" blade mounts on either right or left spindle end, lifts and lowers hydraulically. Positive adjustable depth control. 7½ h.p. Wisconsin engine.



Felker DI-MET Model 200—Maximum economy in a maneuverable, heavy-duty machine. Uses up to 18" blades, giving 6½" depth of cut, right or left hand operation. Hydraulic lift and retardant. Available as a basic unit to which the following accessories can be added: Power drive, coolant pump assembly, starter and generator. 13.5 h.p. Wisconsin engine.



FELKER MANUFACTURING CO.
TORRANCE, CALIFORNIA

World's Largest and Oldest Manufacturer
of Diamond Abrasive Cut-Off Wheels and Machines

Contact your local Felker DI-MET dealer for added product information and correct blade recommendations on your specific job!

See manufacturer's listing page 22H, Yellow Section

ARIZONA

THREE TO GO—Superstructure for the last three floors is going up on the First National Bank of Arizona building in Phoenix. The structure will have nine stories when completed. Stewart Construction Co. has the \$4,000,000 contract. Sidney McMullin is job superintendent.

RECENT MAJOR CONTRACT AWARDS and low bids in Arizona include a low bid of \$212,997 submitted by **W. J. Henson** of Prescott for 8 mi. of draining and surfacing on a new alignment of Route 80 located 23 mi. southeast of Tucson, and another low bid of \$226,480 for 1.9 mi. of grading, draining, and seal coat on the Kingman-Ashfork highway beginning at Ashfork Junction. **Morrison-Knudsen Co., Inc.**, of Los Angeles submitted a low bid of \$816,744 for earthwork, concrete lateral lining, and structures on the Dome and Welton-Mohawk distribution system.

Dale F. Payne Construction Co. of Phoenix submitted a low bid of \$141,678 for grading and draining roadway for the new alignment of US 70 about 30 mi. southeast of Globe. **San Xavier Rock and Sand Co.** of Tucson submitted a low bid of \$158,913 for 3.9 mi. of grading, draining, and surfacing on US 80, 89, and SR 77 located about 21 mi. north of Tucson.

CALIFORNIA

OVER 27 MI. OF FREEWAYS are in the ribbon-cutting stage in Southern California. The longest strip of freeway ever opened at one time was 13.5 mi. on Ramona Freeway November 16. The link cost \$3,300,000 for right-of-way and \$8,650,000 for construction. When completed the Ramona Freeway will extend 41 mi. from Los Angeles to Ontario. Other sections finished, or practically finished, include Long Beach Freeway, 6.5 mi.; Harbor Freeway, 1.5 mi.; Santa Ana Freeway, 2 mi., and Ventura Freeway, 4.1 mi.

THE LAST LINK of concrete pipe has been set in place on a \$2,000,000 storm drain project affecting Glendale and Los Angeles. Within a year

an additional \$900,000 worth of lateral drains will be completed to deliver water to this drain. The project has been a joint venture of the Flood Control District, Los Angeles, and Glendale. The length of the drain, constructed of 144-in. reinforced concrete pipe, is 2.85 mi.

WESTERN DESTRUCTION—Work has begun on the tearing down of the Hill St. tunnel at 1st St. in Los Angeles. The job will be done by Tomei Construction Co. and is expected to take 240 calendar days. Engineers said the first task will be the removal of an estimated 300,000 cu. yd. of dirt from above the tunnel.

NIMBUS DAM NEARLY DONE—Winston Brothers and Al Johnson Company, holders of the \$6,000,000 contract for Nimbus Dam on the American River, have poured the final bucket of concrete on the project. Except for cleanup work Winston-Johnson activities at the dam are completed. The structure, which will serve as an afterbay for regulation of water released from the much larger Folsom Dam 7 mi. upstream, required more than 175,000 cu. yd. of concrete and 3,400 tons of structural and reinforcing steel. The project was started two years ago and completion was ahead of the original schedule.

FEATHER RIVER DAM DRILLING—Boyle Brothers Drilling Co. has completed its contract for diamond drilling at the site of the proposed dam on the Feather River in Butte County. The rock was found to be exceptionally hard and therefore adequate for a foundation. Preliminary plans for the dam, power plant, spillways and afterbays are finished and a model is on display at the state engineer's office in Sacramento.

THE POWER COMMISSION reports that Pacific Gas and Electric Co. has submitted a revised application for a proposed hydroelectric project on the Pit River. The new application differs from the one filed in 1953 in that it would use water from both the Pit River and the McCloud River. The combined project would have a 230-ft. high concrete gravity dam with a powerhouse of installed capacity of 100,000 kw.

RECENT MAJOR CONTRACT AWARDS and low bids in Califor-

nia include a low bid of \$480,978 submitted by **Basich Bros. Construction Co.**, **R. L. Basich**, **N. L. Basich** and **O. B. Pierson** of South San Gabriel for construction of two welded steel girder bridges and approach roadways over Coyote Creek Flood Control Channel in Los Angeles and Orange counties. **Dinwiddie Construction Co.** and **Martinez Construction Co.** of San Francisco have a \$15,000,000 contract to construct 7 major buildings at Stanford University. **R. A. Erwin** of Colton submitted a low bid of \$215,896 for grading and surfacing near San Bernardino.

Granite Construction Co. of Watsonville submitted a low bid of \$1,513,047 for 5.1 mi. of grading and paving and construction of six reinforced concrete bridges near Sacramento; another low bid of \$1,268,027 for 2.1 mi. grading and surfacing and construction of four bridges and one utility crossing in Santa Clara County, and a third low bid of \$185,651 for 5 mi. grading and surfacing in Fresno County.

Matich Brothers of Colton submitted a low bid of \$183,894 for 1.6 mi. grading and surfacing 2 mi. north of Redlands. **C. K. Moseman** of Redwood City submitted a low bid of \$370,218 for 5.5 mi. grading and surfacing and construction of three reinforced bridges in Fresno County. **A. G. Raisch Co.** of San Rafael submitted a low bid of \$1,192,952 for 3.7 mi. surfacing and two tunnels to be tiled between Manzanita and Golden Gate Bridge in Marin County. **Somers & Stacy** of Klamath Falls submitted a low bid of \$632,697 for earthwork and structures on the Corning canal of the Central Valley Project.

COLORADO

A \$30,000,000 CONSTRUCTION project, with a goal of 2,500 homes, has been started near Colorado Springs by American Builders. The site embraces 700 ac. The homes will range in price from \$7,500 to \$15,000, mostly financed under FIIA and GI plans. The area is being completely planned to take care of a modern city of 8,000 to 10,000.

DAM 22 READY—The last bucketful of concrete has been poured on Denver's \$12,000,000 Dam 22 in South Boulder Creek canyon. Some joints

See manufacturer's listing page 13H, Yellow Section →

23 pieces of **CAT-built equipment** on the job—every day!



**"At no time have we had a piece of Cat-built equipment down for a day.
It's on the go 95 per cent of the time."** *Says Job Superintendent Sutton*

To move 1,250,000 yards of borrow on a relocation job near Alton, Ill., R. B. Potashnick, Cape Girardeau, Mo., used 23 pieces of Cat* equipment. The equipment is on the job 10 hours a day, six days a week—*without fail!*

The D8 pictured—one of 11 D8s on the job—explains what makes big yellow equipment click. Equipped with a No. 8S Bulldozer and a sheepfoot tamper, it is spreading and compacting fill.

There'll be no trouble with that 'dozer. Its moldboard is shaped to dig and roll a full load, making efficient use of the tractor's power. Carbon steel cutting edges are reversible. Lengthwise box-section reinforcements provide great strength for the blade.

And the D8 was built for hard-and-heavy use in any kind of terrain. Protected final drives and track rollers keep dust, mud and water out and lubricant in. Its sure-footed traction uses maximum engine power to do jobs quickly and inexpensively.

But most important, tractor and 'dozer are engineered to *work together*. Only Caterpillar manufactures both as matched equipment.

Follow the lead of construction leaders—standardize on Caterpillar equipment and watch costs drop, profits pyramid. See the difference for yourself. Call your Caterpillar Dealer today. Have him show you the new, more powerful D8. He's ready to demonstrate on *your* job!

Caterpillar Tractor Co., San Leandro, Calif.;
Peoria, Ill., U. S. A.



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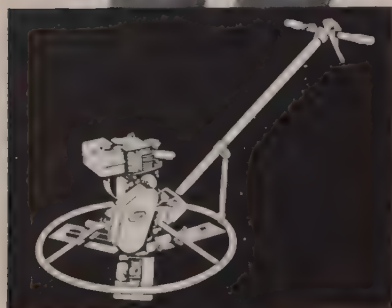
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**USE CAT EQUIPMENT
FOR MONEY-MAKING
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Smooth!

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... We're talking about the finish our new Stow G-34 and E-34 Roto Trowels deliver on any paving job!

We've some interesting figures on performance for you, too!

Write today for complete information on STOW Roto-Trowels.

STOW MANUFACTURING CO.,

56 SHEAR ST., BINGHAMTON, NEW YORK

See manufacturer's listing page 47H, Yellow Section

remain to be grouted by the Macco-Puget Sound contractors, but the dam will be ready to impound water next spring. It is 340 ft. high and 1,002 ft. long at the top.

WORK HAS STARTED on a 20-story, 1,000-room hotel on long-vacant Courthouse Square in downtown Denver. William Zeckendorf said his firm of Webb & Knapp will build the hotel, plus shops across from the square, at a cost of \$35,000,000. The new hotel will be twice the size of the present largest hotel in Denver. The new building should be open by September, 1956.

HOMES FOR ARVADA — Westcraft Homes, Inc., has obtained building sites and has started construction on the first group of 1,000 homes adjacent to Arvada at a cost of \$12,500,000. Three model homes are now being built and the present schedule calls for the completion of one a day for the next two years. The units will be in the \$10,000 to \$12,000 class.

USBR FIRES 100 — Dismissal notices have been prepared for 100 key employees in the U.S. Bureau of Reclamation's planning and engineering office at the Denver federal center. The mass firing of top-ranking engineers, designers, researchers and supervisors was a direct result of failure of the last Congress to approve any new reclamation projects — including the Upper Colorado basin project and the proposed Frying Pan-Arkansas diversion project.

IDAHO

PENNY CLIFFS ABANDONED

— The Pacific Northwest Power company has applied to the state of Idaho for water use and storage rights at two sites on the Snake River downstream from the controversial Hells Canyon site. The company said it would try to develop those sites, abandoning plans for Penny Cliffs on the Clearwater because of opposition of wildlife interests. Pacific Northwest is made up of Washington Water Power Co., Pacific Power & Light, Montana Power Co., and Portland General Electric.

RECENT MAJOR CONTRACT AWARDS

and low bids in Idaho include a low bid of \$296,124 submitted by **Aslett Construction Co.** of Twin Falls for 5.8 mi. grading and surfacing SR 34 on the Grace-Niter section, Caribou County. **Pickett & Nelson** of Idaho Falls submitted a low bid of \$256,765 for 7.2 mi. of oiling the Yellowstone Park highway, north of Ashton, Fremont County.

LONGER LIFE FOR ALL ENGINES

WITH YEARS-AHEAD
RICHFIELD

**"CIRCLE C"
MOTOR
OIL**



Construction men throughout the West have found that this heavy-duty oil makes all engines — *diesel or gasoline* — last longer and operate better. That's because "Circle C" Motor Oil combats the bad effect of high sulphur content in Western diesel fuels...and reduces the formation of power-wasting deposits in gasoline engines.

Ask your local Richfield representative. THEN TRY IT AND SEE!



RICHFIELD

MONTANA

GREAT FALLS BANK—The Montana Bank has announced plans to build a \$400,000 structure in Great Falls. A contract is to be let next spring for construction of the 2½-story bank and office building.

RECENT MAJOR CONTRACT AWARDS and low bids in Montana include an award of \$431,123 to **Peter Kiewit Sons' Co.** of Lewistown for grading, draining, and surfacing on the highway west of Wolf Point-North Dakota Line, Roosevelt County, and another of \$342,750 for 9.7 mi. grading, draining, and road-mix oiling on the Molt-Billings highway, Yellowstone County. **Sundling Construction Co.** of Great Falls received a \$285,807 award for 13.1 mi. grading and surfacing on the Baker-Wibaux highway, Wibaux County.

NEVADA

ANOTHER RESORT HOTEL, to cost \$5,000,000, is scheduled for Las Vegas, announced Norman O. Houston, Golden State Mutual Life Insurance president, who heads the corporation which plans to erect the structure. The hotel, named the Continental, will be one which will cater to all races, colors and creeds, Houston said.

CONSTRUCTION IS DUE to start on Fallon's \$250,000 sewage disposal system. George E. Miller has the contract for the \$67,000 outfall line. **Nomellini Construction Co.** was low bidder at \$175,000 for the disposal plant. Additional costs will be for services of engineers, bonding companies, legal counsel, and inspection. The job is to be finished within 270 days after work starts.

RECENT MAJOR CONTRACT AWARDS and low bids in Nevada include an award of \$330,011 to **W. W. Clyde & Co.** of Springville for construction on a portion of the state highway system in Eureka and Elko counties from 3 mi. south of Palisade to 2 mi. south of Carlin. **Silver State Construction Co.** of Fallon submitted a low bid of \$280,291 for 6.7 mi. grading and surfacing northwest of Lovelock, Pershing County.

NEW MEXICO

THE \$2,000,000 Simms Building is ready for occupancy. The 13-story structure is the tallest in Albuquerque. Construction was begun 15 months ago by Lembke, Clough and

King, Inc. Architects are Flatow and Moore. The building has 126,000 sq. ft. of floor space and stands 160 ft. high.

CITY COMMISSION of Albuquerque approved construction of the Edith Blvd. sewer trunk at an estimated cost of \$789,000. The commissioners accepted the proposal of **W. E. Turney & Associates** for an increased trunk line from Edith Blvd. and Menaul Blvd. eastward to serve an estimated future population of 256,000.

MISSILE MONEY—New facilities actually under construction at White Sands Proving Ground total \$6,000,000. Heading the list of new buildings are four projects to provide additional facilities in technical operations. The balance are necessary "housekeeping" projects to support the work of testing missiles and rockets. No figures have been released for future construction.

WATER PROSPECTS STUDIED—State Engineer John Erickson said his office is spending almost a third of its total budget on work intended to improve long range water prospects in New Mexico. Records show that \$239,931 of a total of \$727,968 are going for water investigations, construction on water projects, and work aimed at preserving and increasing the state's scarce surface water.

RECENT MAJOR CONTRACT AWARDS and low bids in New Mexico include a \$722,719 award to **Jack Adams** of Santa Fe for 14.9 mi. grading and surfacing the Algodones-La Rajada road, Sandoval and Santa Fe counties. **Armstrong & Armstrong** of Roswell received a \$525,155 award for 4.8 mi. grading and surfacing in Las Cruces, Dona Ana County.

Metropolitan Paving Co. of Oklahoma City submitted a low bid of \$2,072,740 for a paving and lighting project at Roswell Air Force Base. **Sharp & Fellows Contracting Co.** of Los Angeles received a \$316,559 award for construction work on the Alameda bridge road in Bernalillo County. **Henry Thygesen & Co.** of Albuquerque received a \$179,261 award for 2.4 mi. grading and surfacing on the Cerrillos Road-Las Vegas highway in Santa Fe.

OREGON

SHOP FABRICATION of sections of the penstock for California Oregon Power Company's Lemolo No. 1 project has been completed by United States Steel's Consolidated Western Steel Division. The sections, some weighing as much as 27 tons, are being joined to form a pen-

stock 7,230 ft. long. Field installation is being done by setting the sections on concrete piers using a crawler crane. On the steepest portion the sections are lowered into position from the top of the hill using parallel skids and a sled for carrying each section. Field joining is being done by means of Dresser couplings, which do not require riveting or welding. The couplings will also act as expansion joints for the line.

SWEDISH BEAMS, type HB, are being used for the first time in Portland in the construction of a grade school. The webbing is two solid courses of 1-in. boards set at right angles to each other and the flanges are laminated, 1-in. members pressure-glued to form continuous members. The cross section varies with the stress. With this beam long spans are possible with a small rise.

RECENT MAJOR CONTRACT AWARDS and low bids in Oregon include a low bid of \$624,787 submitted by **J. C. Compton Co.** of McMinnville for grading, paving, and construction of a bridge on the Siletz Bay-Miher Creek section of the Oregon Coast Highway, Lincoln County. **Coos Bay Dredging Co., Inc.**, of Coos Bay submitted a low bid of \$290,929 for grading and oiling on the West Unit, Reedsport-Dean Creek section, Umpqua highway, Douglas County. **Hamilton & Thoms** of Eugene submitted a low bid of \$178,280 for construction of four structures on the Portland-Salem Expressway, Marion County.

Rogers Construction Co., Inc., of Portland submitted a low bid of \$268,466 for grading and surfacing on the Warm Springs highway in Jefferson County; a low bid of \$501,931 for grading, paving, and structures on the Tigard-Newberg section of the Pacific Highway west in Washington County; a low bid of \$432,215 for paving the Emigrant Hill section of the Old Oregon Trail highway in Umatilla County. **White Bros.** of Walla Walla received a \$504,150 award for construction of roads and bridges in Douglas County.

UTAH

NEW POWER PLANT—The \$11,800,000 Carbon plant at Castle Gate is now generating 66,000 kw. for Utah Power & Light. The plant is located in the heart of Utah's coal fields and is the first generating station in the area. The project was started by Bechtel in the summer of 1953.

SALT LAKE sidewalk superintendents were getting their first look at "skin-type" building construction early in December. About 100 tons of

HUBER WARCO

TWO FAMOUS NAMES IN ROAD MACHINERY

BECOME ONE!

The Huber Manufacturing Company of Marion, Ohio, and the W. A. Riddell Corporation of Bucyrus, Ohio, are now combined in the new HUBER-WARCO COMPANY with headquarters in Marion.

Our combined lines include the following:

HUBER-WARCO MOTOR GRADERS: 4D-75, 4D-85 and 4D-115.

HUBER-WARCO MAINTAINER: With versatile attachments for service as a bulldozer, grader, broom, snow plow, berm leveler, lift-loader, side-dozzer, road planer, mower or patch roller.

HUBER-WARCO TANDEM ROLLERS: 3-5, 5-8, 8-10, 8-12 and 10-14 ton.

HUBER-WARCO 3-WHEEL ROLLERS: 5, 6, 7, 8, 10, 12 and 14 ton. 8-10, 10-12 and 12-14 ton variable weight.

**HUBER
WARCO**

HUBER-WARCO COMPANY
Road Machinery

MARION, OHIO, U.S.A.

Road Rollers • Maintainers • Motor Graders

See manufacturer's listing page 29H, Yellow Section



NEW... FOR YOU!

STANDARD ASPHALT PLANT CATALOG

16 money saving, idea-packed pages.

See the latest and best in asphalt plants. *Yours for the asking!*

Find out why hundreds of users throughout the nation say, "STANDARD is best—for production—for quality—for low operating and maintenance costs." Write for your copy today.



STANDARD

STANDARD STEEL CORPORATION

5049 Boyle Ave., Los Angeles 58 • 15 Park Row, New York 49

See manufacturer's listing page 46H, Yellow Section

porcelain-coated steel panels were being erected on the north side of the 12-story First Security Bank Building. Estimated cost of the structure is \$2,500,000.

SECOND BIDS have been received for work on the installation of a new 78-in. sewer trunk line to connect with Salt Lake City's new sewage pumping plant. Young & Smith Construction Co. submitted a low bid of \$198,975. Earlier, Gibbons & Reed Co. had submitted a low bid of \$175,509, but forfeited the bid and a bid bond of \$8,975.

WASHINGTON

LAST CHIEF JOSEPH POUR—The last of 981,000 cu. yd. of concrete on Chief Joseph Dam has been poured by the main contractor, Chief Joseph Builders. Concrete work is also finished on the powerhouse intake, which took 800,000 cu. yd. The project will go into the Northwest power pool in the fall of 1955. Its capacity of 1,024,000 kw. is second only to Grand Coulee Dam.

PUYALLUP SEWERS—The Puyallup city council has accepted a \$342,691 bid by Bona Fide Builders Co. for construction of a sewage treatment plant. The council authorized Gray & Osborne to draw plans for the remaining portion of the \$1,800,000 sewer and water improvement work. Bids for storage reservoirs and improvements in supply lines will be called early in 1955.

PERMIT REVIEW GRANTED—The Federal Power Commission has agreed to review its order granting a preliminary permit to public utility district No. 1 of Douglas County for a proposed hydro project on the Columbia River at the Wells site. The review was requested by Puget Sound Power and Light Co., which also had applied for a preliminary permit. The commission said that further consideration of the issues raised by Puget Sound Power is in the public interest.

CORE DRILLING equipment is being installed at the Priest Rapids and Beverly sites on the Columbia River by Grant County public utility district. The PUD holds a permit to investigate the building of a dam or dams at the sites. Boyle Construction Co. will make the core drilling tests.

BREMERTON WATER SUPPLY—Bremerton's \$1,000,000 water supply dam and related improvements become a step nearer to realization as the city council voted approval of a contract with John W. Cunningham and Associates for engineering on the job. The firm will get 4½% of

FOR IRRIGATION & DRAINAGE WATERWAYS

Briscoe Ditchers

DIG NEW DITCHES
CLEAN OLD ONES

DITCH CONSTRUCTION AND
MAINTENANCE AT LOW COST



Model #68

INTRODUCING
3 NEW MODELS
No. 35-No. 46-No. 68

COVER WIDE RANGE
OF SIZES FOR DITCHES
WITH BOTTOM WIDTHS
FROM 2½ TO 8 FEET AND
DEPTHS OVER 5 FEET



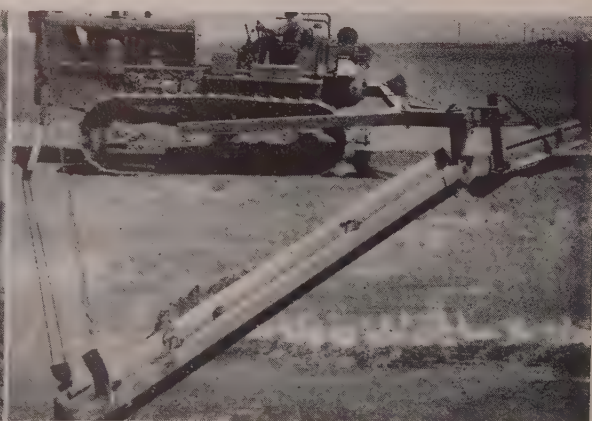
1940 Cu. Yards Per Hour on New Ditch!

The Model #68 Briscoe above is forming a new ditch with an 8-foot Bottom, Slope of about 1½ to 1, depth of 6 feet. Ditch was 1½ miles long and total actual Ditcher time was 12 hours, for a total yardage of 23,271! 4 D7 "Caterpillar" tractors used in line; D8 on far bank is pulling grader to move spoils back.

• BRISCOE SLOPERS •



Sloper doing Weed Control work on Arizona gov't. project



Adding finishing touches to Calif. irrigation project

Briscoe Slopers

SLOPE BANKS—REMOVE BERMS
FOR WEED CONTROL
CLEAN AND SHAPE BAR PITS



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TALL TOWERS

Erection work is progressing rapidly on the 918 towers which will form the Bonneville Power Administration's powerful new McNary-Ross single circuit transmission line. The 175-mi. line along the Columbia River's north side runs from McNary Dam to Vancouver, Wash. Bethlehem Pacific's tower shops at Seattle and South San Francisco have fabricated the steel. Towers range in height from 80 to 160 ft.

the total cost. Preliminary work was expected to get under way this winter, with actual construction to start in the spring.

SWINOMISH SPAN — Construction of a high-level bridge across the Swinomish Channel in Mount Vernon will start in 1955 regardless of the outcome of a \$1,200,000 bond issue vote. County commissioners in Skagit county said that if the bond issue is defeated certain other bridges would not be built.

A BID CALL for Mayfield dam construction on the Cowlitz River will be made in February 1955 according to officials of Tacoma City Light. Mayfield will be the first of two dams to be built in the \$146,000,000 hydroelectric project. Together they will produce 460,000 kw. Harza Engineering Co. is consulting engineer. Mayfield will be 185 ft. high; the other, Mossyrock, will be 325 ft. high.

THE SHOPPING CENTER now being built in Spokane is believed to be the first and is certainly the largest project in the country to use lift slab methods on reinforced concrete columns. The largest single slab will weigh more than 500 tons. Precast tilt-up walls are also being used in the structure. H. Halvorson, Inc., is general contractor.

ATTALIA WAREHOUSE — The Lewis Hopkins Co. has begun con-

struction of a warehouse on the site of Columbia River Chemical Corp.'s \$12,000,000 fertilizer plant at Attalia. The H. B. Palmberg Construction Co. is building docks and other facilities to serve the site. K. C. Dack Co. is leveling land under a subcontract.

RECENT MAJOR CONTRACT AWARDS and low bids in Washington include a low bid of \$850,772 for construction of two multi-purpose hangars at Larson AFB. **Boyles Bros. Drilling Co.** of Salt Lake City submitted a low bid of \$207,050 for subsurface exploration core drilling for the foundation of the proposed Priest Rapids Dam, Grant County. **Buchanan, Sather, & DeRycke** of Seattle submitted a low bid of \$167,777 for construction of the Mesa Pumping Plant and canal lateral, Block 14, Columbia Basin project.

Roy T. Earley Co. of Tacoma received a \$1,008,944 award for construction of secondary state highway 1-K and the First Ave. South Bridge and approaches in King County. **Fiorito Bros.** of Seattle received a \$205,225 award for 8.9 mi. grading and surfacing on secondary state highway 11-G, Larson AFB to Euphrata Wye, Grant County. **Havorson, Inc.**, of Spokane submitted a low bid of \$1,928,047 for construction of school buildings in Seattle.

Lige Dickson Co. of Tacoma received a \$578,447 award for 3.6 mi. grading and surfacing on state highway 2, Middle Crossing Snoqualmie River to Camp Mason, King County. **Lockyear & White** of Longview received a \$174,600 award for construction of an overcrossing at the Great Northern railroad on state highway, Skagit County. **C. E. Oneal Co., Inc.**, of Ellensburg received a \$239,131 award for 5.8 mi. grading and surfacing on the Wenatchee-Malaga Road in Chelan County.

WYOMING

GLENDON BID — Lytle & Green Construction Co. is low bidder at \$6,270,790 for the construction of the Glendon Dam, powerplant foundation, and roads. The 1,300-day job involves the building of a 2,200-ft. long earth-fill dam requiring 4,000,000 cu. yd. of excavation, 2,935,000 fill, and 44,000 cu. yd. of concrete.

A RESOLUTION passed by the Highway Commission states that resident equipment and machinery dealers will be given preference on bids in order that such equipment may be "expediently serviced and repaired." The resolution was expected to do away with expensive time de-

lays in repair of equipment purchased from dealers in distant cities and states.

RECENT MAJOR CONTRACT AWARDS and low bids in Wyoming include a \$323,039 award to **Asbell Bros. Construction Co.** of Riverton for 8.6 mi. of grading, draining, and surfacing on the Torrington-Cheyenne road in Laramie County. **Big Horn Construction Co.** of Sheridan received a \$198,842 award for 5.2 mi. grading, draining, and surfacing near Ft. Steele, Carbon County. **Platte Valley Construction Co.** of Grand Island received a \$300,992 award for 6.9 mi. grading, draining, and surfacing on the DuBois road, Fremont County.

ALASKA

ARCTIC RADAR NET — The United States will build and pay for the long-sought radar warning net above the Arctic Circle across the frozen wastes of the Alaskan-Canadian rim of the continent. Canada and the United States have agreed that the United States should build the "distant early warning line." Unofficial estimates put the cost around \$1,000,000,000. No details about the project were disclosed.

RECENT MAJOR CONTRACT AWARDS and low bids in Alaska include a low bid of \$271,500 submitted by **Cole & Paddock** of Juneau for reconstruction of the Coast Guard wharf at Ketchikan. **Keil & Peterman** of Juneau received a \$731,368 award for improvements to the Douglas highway in Juneau. **Grove, Shepherd, Wilson & Kruge, Inc.**, of Seattle received a \$1,377,205 award for construction of two 200-man barracks with mess facilities and outside utilities at Ladd AFB. **Peter Kiewit Sons' Co.** of Seattle received a contract award of \$464,543 for construction of four concrete utilidors at Ladd AFB.

Here and There

THE LAST LOAD OF DIRT has been dumped on the embankment at Garrison Dam in North Dakota. Peter Kiewit-Morrison Knudsen has been handling the job for the Corps of Engineers since 1948. First work was started in 1947 by Garrison Builders, Inc. Bids on the last major contract, Stage II of the spillway, were opened in November and PK-MK was apparent low bidder at \$6,000,000. Work on the contract will not start until next spring and the completion date has been set for December 31, 1957.

See manufacturer's listing page 26H, Yellow Section →

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Why

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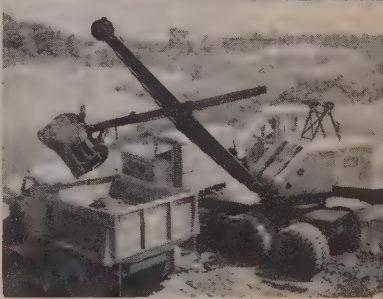
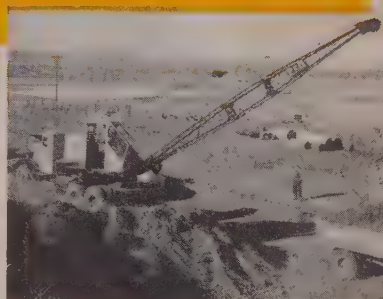
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speed, earning power



Full convertible.
Buckets from 20 to 32 in.
7 tons capacity as a crane.



Don't limit your production to the pace of old-fashioned machines... when you can buy the fast and modern P&H MITI-MITE at such a low price! Hundreds already in service all over the country and plenty more on the way!

Once you see it you'll agree, MITI-MITE is the most rugged little truck crane ever built. Take MITI-MITE anywhere — use it for all jobs... many that normally call for bigger machines. *Pocket the savings!* Watch how MITI-MITE handles standard heavy-duty attachments at maximum boom lengths. See the heavy-duty hoe and compare it with any other on the market. MITI-MITE works day after day with only gas and oil maintenance.

MITI-MITE leads the pack... the biggest and best producer in its class... at a new low price you won't pass up.

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CRESCENT CITY, Calif.....Riley Logging Supply Co., Highway "Y"
EL CENTRO, California.....Purdy-Holmquist Co., 1275 Main Street
ESCONDIDO, California.....Southern Equipment & Supply Co., 301 W. Grand
EUREKA, California.....Riley Logging Supply Co., 1034 Broadway Street
LOS ANGELES 22, California.....Shaw Sales & Service Co., 5100 Telegraph Rd.
OAKLAND, California.....Cook Bros. Equipment Co., 416 E. Eighth Street
SACRAMENTO, California.....Sacramento Valley Tractor Co., 1901 Broadway
SALINAS, California.....Farmers Mercantile Company, 15 W. Alisal Street
SAN DIEGO 13, Calif.....Southern Equipment & Supply Co., 2025 East Harbor Drive
FRESNO, Calif.....Allied Equipment Co., 1824 Santa Clara St.

SANTA MARIA, Calif.....Hanson Equipment Company, Main St. at Blosser Road
DENVER, Colorado.....Liberty Trucks & Parts Co., 690 Lincoln Street
BOISE, Idaho.....Starline Equipment Co., 503 South 16th St.
ALBUQUERQUE, New Mexico.....Leonard Motor Company, 1211 North 4th Street
RENO, Nevada.....Jenkins & Albright, 100 Giroux St.
EUGENE, Oregon.....Loggers & Contractors Machinery Co., 540 Filmore Street
PORTLAND 14, Oregon.....Loggers & Contractors Mach. Co., 240 S.E. Clay Street
SALT LAKE CITY, Utah.....Western Machinery Company, 2300 South Main Street
SEATTLE 8, Washington.....Bow Lake Equipment Co., Inc., 300 Michigan Avenue
SEATTLE 4, Washington.....Glenn Carrington & Co., 91 Columbia Street
SPOKANE 1, Wash.....Construction Equipment Company, E. 3823 Trent Ave.

P&H PACIFIC DIVISION

HARNISCHFEGER CORPORATION

ALASKA Newsletter

By CLIFFORD S. CERNICK, Anchorage

UNEMPLOYMENT HITS PEAK

—The unhappiest time of the year in Alaska for the construction industry is the month of December and part of January when the curve of unemployment zooms to its peak. At the present time there are more unemployed in Alaska than at any other time since last winter. Joblessness is heaviest in the ranks of construction workers normally employed on outside work. For example in the Anchorage area alone, there are 281 laborers unemployed. Also jobless are 159 carpenters, 118 truck drivers, 88 painters, 95 heavy equipment mechanics and operators and 39 plumbers. There are now 1,800 unemployed persons in Anchorage which is 500 more than were unemployed last month.

SILVER LINING—There is a silver lining to the bleak cloud of unemployment that has darkened the Alaska job picture. For one thing, employment officials and contractors do not expect the total of unemployment to increase further. Instead they anticipate that from the end of January on, jobs will gradually become more plentiful. If the yearly pattern of unemployment repeats itself, there will be a steady increase in jobs throughout the spring, reaching a peak next August. For another thing, there are fewer construction men in the Anchorage area than last year, largely because fewer outside workers came to the territory during the construction season. This means, of course, that fewer persons will be confronted with the rigors of the Alaskan winter and high cost of living at a time when unemployment is at its worst.

BUSTLING TUNDRA VILLAGE

—A dilapidated collection of shacks on the Alaska tundra will be transformed into a busy bustling hub of activity next spring. The town of Naknek on Bristol Bay on the southwest coast of Alaska, never much more than a fishing camp and the site of an ancient native village, is expected to mushroom as a result of plans to expand military facilities there including an airfield, required housing, and utilities. Naknek is one of many almost forgotten tundra villages that give promise of growing under the impetus of military spending for defense of Alaska.

CONTRACTORS' GRAB BAG—If you are a construction contractor and want to save a few chips on supplies for your Alaskan projects you'd

do well to look into the gigantic surplus sale being planned by the Alaska Railroad for next spring. A veritable grab bag of supplies for construction projects will be available to you at rock-bottom prices. Everything from a hand shovel to a locomotive, from a gasoline engine to a couple of hundred miles of copper wire, will go on the block around April of 1955. The mountain of material, valued at more than \$5,000,000 is now located in warehouses and storage yards in the Anchorage area. It was acquired by the Alaska Railroad from the War Assets Administration after the war. Now railroad officials have decided they have no use for the material and will sell it to the highest bidder. If you want further information about this surplus write to Ralph G. Deede, General Services Administration, 901 1st Avenue in Seattle.

RADAR ROUNDUP—A substantial proportion of 1955 construction in Alaska is expected to be in connection with the radar warning network being built across northern Canada and Alaska. A press service statement from Washington, D. C., reports that responsibility for the work of construction and installation of the radar network is vested in the United States. The statement adds that seven radar stations in the Alaskan segment of the line already are in operation. Because of security regulations very little can be said as to the scope of the radar projects other than the information given above.

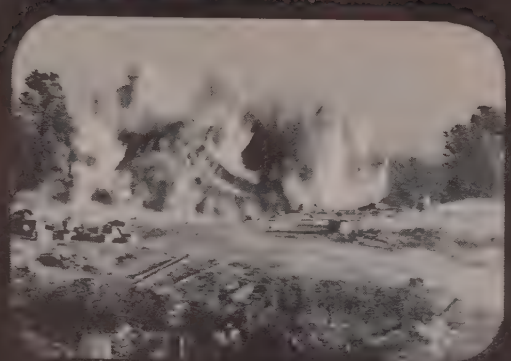
RADAR AND YOU—How does the announcement of a proposed Alaska radar network affect the construction industry? By reason of the vast sums that will undoubtedly be expended on these projects, a number of major construction contracts will be opened for bids. These will provide an opportunity for both large and small contractors to participate. However, only those contractors familiar with problems of construction in remote wilderness areas where transportation facilities are at a minimum will be in a favorable position for taking these jobs. No doubt some of these projects will be awarded after competitive bidding to firms which already have undertaken and completed similar projects. If you are a construction worker you will no doubt have some opportunity to participate in the radar construction program. If you go to work on such a project, you will find it has certain advantages and disadvantages. For one thing, you will be able to lay up

a good-sized bankroll because wages at these projects generally are quite high and the cost of living in contractors' camps is extremely low, by Alaskan standards. However, the work is usually in remote locations where conditions of weather, isolation, insects, and morale tend to be at their worst. Also unless you are used to working seven days a week such a project is not for you.

BIG PORT PROJECT—A port construction project costing in excess of \$8,000,000 is being planned by the city of Anchorage. The city already has authorized a bond issue in the amount of \$2,000,000 for the project. The balance required is now being sought through Congress as a direct grant. Construction of a year-round port in Anchorage would greatly benefit the construction industry from the standpoint of both cost-saving and convenience. Since a large number of construction projects are situated in the Anchorage area, shipment of supplies could be speeded up and delivered to the job site at lower cost. Previously, most supplies were unloaded at the seaports of Whittier or Seward, then hauled to Anchorage by railroad or truck. Once an adequate port is constructed supplies would come directly to Anchorage where contractors' vehicles could pick them up and haul them to the job sites in a matter of minutes.

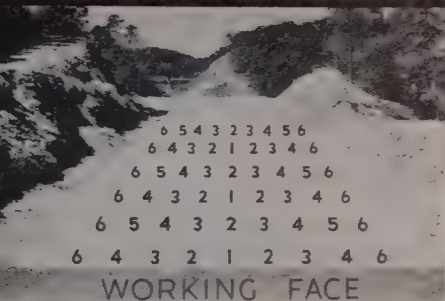
COMMERCIAL CONSTRUCTION—A number of sizable commercial construction projects now under way are scheduled to begin next spring and should take up the slack in Alaska construction caused by a dwindling volume of defense projects. Typical of these projects is a huge new \$700,000 motel to be built in Fairbanks by Walter Hickel, Anchorage contractor. Another important project being planned is a \$450,000 school building on the outskirts of Anchorage. A third commercial project is already under way. It is a \$300,000 suburban theatre and supermarket building at Spenard, a community located a mile from Anchorage. What may develop into one of the biggest Alaska commercial projects—a new Methodist college in the Anchorage area — still is in early stages of discussion and planning. The college will be financed through a fund drive in the 48 states and Alaska. When completed, the college, as presently envisioned, will cost between 8 and 10 million dollars.

OIL SPECULATION CONTINUES—Alaskans who are hopeful that some oil firm will strike a gusher and thus give a shot in the arm to the Territory's sagging economy were heartened by the news that the Richfield Oil Company has filed application for leases on 37 sites on the Kenai Peninsula. Richfield thus became the ninth major oil firm to invest in Alaska's oil potential.

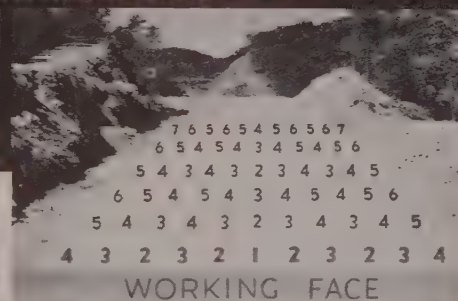


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TYPICAL ROCKMASTER LOADING PATTERNS FOR THOROUGH-CUT BLASTING



Alternate



Alternate Progressive

This is the kind of breakage and displacement that means economical handling for the contractor. With the ROCKMASTER Blasting System, close control over throw and maximum breakage was obtained by Condon-Cunningham Co. and Peter Kiewit Sons Co., contractors for part of the new West Virginia Turnpike.

The diagrams above show typical ROCKMASTER loading patterns for thorough-cut blasting. The holes are loaded with the earliest delays in the center with successive delays located progressively to

the edges of the cut. As the blast is fired, the first delays give relief to the following holes and movement of the burden is toward the center of the blast area. You can see it in the second photograph . . . movement is in, not out. And the breakage was so thorough this pile was "panned" out.

For results like this, put ROCKMASTER to work on *your* blasting problems . . . it is the way to better breakage, easier handling. Get complete information on ROCKMASTER by writing for your copy of the new Atlas Explosives Catalog.



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ENGINEERS on the move

George E. Lang, new Arizona state highway engineer, has the assistance of C. B. Browning in the function of deputy state engineer, and H. H. Brown as assistant deputy engineer. Brown was formerly materials engineer and in his new position retains his present status as construction engineer. W. G. O'Harra is now engineer of materials, with R. H. Willow, assistant. S. A. Erickson is engineer of bridges and dams, and W. N. Price, former senior resident engineer, is now traffic engineer.

* * *

The annual service award program of the New Mexico State Highway Department this time pays honor to L. C. Campbell of Las Cruces and presents him with a 35-yr. award. This is as great a length of time as there has been a New Mexico highway department, the first project having been awarded Oct. 14, 1918. Lindsay F. Root, supervisor of the reports and information section, also

reports the appointment of J. W. McIntosh as chief accountant. He has been acting chief accountant. Also that R. W. De LaRue has been changed from acting right-of-way engineer to right-of-way engineer.

* * *

Charles D. Beach was recently appointed district engineer for the Colorado District, Bureau of Public Roads, succeeding Jesse E. Williams who retired after 36 yr. of Federal service. Beach, who has been with the Bureau since 1928, has been engineer in the Colorado district since 1945. Prior to joining BPR he was employed by the Colorado highway department. Williams has accepted a position as advisor to the minister of public works at Bogota, Colombia. S.A.

* * *

L. A. Adams, property and equipment officer with Division 8 of the Bureau of Public Roads, Portland, Ore., retired Nov. 23. He had been



COL. JOHN A. GRAF, newly appointed San Francisco District Engineer, is the youngest officer to have assumed this important post in the San Francisco District.

with the Bureau since 1923, serving part of the time in Washington, D. C., Alaska, and in Costa Rica.

* * *

Col. William F. Cassidy was recently chosen South Pacific division engineer, Corps of Engineers, at San Francisco, to succeed Col. Paul D. Berrigan, division engineer since January 1953, who will be assigned elsewhere soon. A graduate of the



Cassidy

United State Military Academy, Colonel Cassidy has served since last August as assistant South Pacific division engineer.

* * *

When the Nellis AFB project, Indian Springs AFB project, and the Nellis Ordnance Storage Area project of the Corps of Engineers were combined under the Nellis Project last October, Bruce W. Bennett was relieved of his duties as project engineer at Nellis ordnance storage area, and Beattie C. Hedrick was assigned as project engineer responsible for all construction at



COLONEL Arthur H. Frye, Jr., district engineer for the Los Angeles District of the Corps of Engineers, late last year presented **Charles W. Phillips**, supervisory engineer, with a check for \$275 for a suggestion that was put into effect in the engineering division at an estimated savings of \$42,000 per annum, for the Los Angeles District alone. The suggestion has already been referred to higher echelon. Mr. Phillips suggested the elimination of a "projected cost" estimate now being prepared by architect-engineer firms preparing designs for Air Force construction. Instead they will make more detailed "control" estimates and revise them just before advertising for bids, thus saving time and a considerable amount of money.

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Skilled engineering characterizes each and every Austin-Western crushing and screening plant, which is tailor-made to a particular production problem.

- Portable crushing and screening plants
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Edward R. Bacon Company, San Francisco, California
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C. D. Roeder Equipment Company, Reno, Nevada

Shriver Machinery Company, Phoenix, Arizona
Smith Booth Usher Company, Los Angeles, California
Western Construction Equipment Company, Great Falls, Montana;
Billings, Montana; Missoula, Montana
Wilson Equipment & Supply Company, Cheyenne and Casper, Wyoming
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and WASHING EQUIPMENT



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Construction Equipment Division
LIMA, OHIO, U.S.A.

Construction Equipment Division

See manufacturer's listing page 7H, Yellow Section

these locations. Bennett was re-assigned as project engineer at Camp Cooke, Lompoc, Calif.

* * *
G. Donald Kennedy was elected president of the Portland Cement Association at the annual meeting of the association in November. He succeeds Carl D. Franks, who retired after 38 years of service with the association. Kennedy joined PCA in January 1950 as consulting engineer and assistant to the president. He was appointed executive vice president in May 1953. Franks, who was president for the past year and a half, has served with the organization since its establishment in 1916. Kennedy has a record of over 24

years' experience in the fields of structural, municipal, and highway engineering. At one time, prior to joining the PCA, he was consultant to several states, including Oregon, Washington, and California, on the development of long-range highway programs.

* * *
William W. Moore, San Francisco foundation engineer and partner in the firm of Dames & Moore, has been elected president of the Consulting Engineers Association of California. Other new officers, elected at the recent annual meeting, are Stephenson B. Barnes, member of the state board of registration for engineers, vice president; and

Homer W. Jorgenson, Modesto sanitary engineer, secretary-treasurer.

* * *
George T. McCoy, California State Highway Engineer, is the new president of the American Association of State Highway Officials, succeeding A. E. Johnson. McCoy was elevated from the position of first vice president at the 40th annual AASHO convention held in Seattle, Wash.

* * *
T. P. Stivers, former South San Joaquin Irrigation District engineer and executive engineer of the Tri-Dam Project, has been appointed executive secretary of the California Districts Securities Commission.

WHEN WILL **SCHRAMM**

BUILD A ROTARY COMPRESSOR?

Schramm might build a rotary compressor when the rotary compressor can be built that will perform better than the Schramm UNISTAGE compressors they are now building.

Schramm might consider a rotary compressor if one could be built that would:

Have as low maintenance as the Schramm UNISTAGE;

Use as little fuel as the Schramm UNISTAGE

Be as easy to service as the Schramm UNISTAGE

Have as simple controls as the Schramm UNISTAGE

So far — none have been built that can equal the economy and performance of the Schramm UNISTAGE.

Records of Schramm users have proved this!

SCHRAMM, INC.

WEST CHESTER

PENNSYLVANIA

SCHRAMMAIR YOUR JOBS

See manufacturer's listing page 44H, Yellow Section

DEATHS

Walter Johannessen, 63, died suddenly of a heart attack on Nov. 15 at his home in Phoenix, Ariz. He was senior engineer and partner in the consulting engineering firm of Johannessen and Girand.

* * *
Francis C. Bach, 44, city engineer of Lovelock, Nev., died suddenly at his home. He had been city engineer since 1947.

* * *
John Zoss, 67, died recently after a brief illness. A bridge engineer with the Bureau of Public Roads, Division 8, Portland, Ore., he had been resident engineer on Blue Creek Bay Bridge near Coeur d'Alene, Idaho.

* * *
Daniel A. Peterson, draftsman in the plans and contracts division of the Washington Department of Highways, died Oct. 23.

CALENDAR

Jan. 10-13—American Road Builders' Association, annual meeting at Roosevelt Hotel, New Orleans, La.

Jan. 23-28—Associated Equipment Distributors, annual meeting, Conrad Hilton Hotel, Chicago.

Feb. 2-4—Institute of Transportation and Traffic Engineering, 7th annual California Street & Highway Conference, at the University of California, Berkeley.

Feb. 6-11—American Society of Civil Engineers, national convention, Hotel U. S. Grant, San Diego, Calif.

Feb. 7-9—Association of Asphalt Paving Technologists, annual meeting, Jung Hotel, New Orleans.

Feb. 24-25—Highway Engineering Conference of the University of Colorado, annual conference, Boulder, Colo.

Mar. 9-12—American Concrete Pipe Association, annual meeting at Sheraton-Plaza Hotel, Boston.

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—in a single storage unit

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*ELEVATED
 STEEL TANKS*

Combining 25,000 gallons of water storage for regular use with a fixed reserve of 75,000 gallons for sprinkler demand, this 100,000-gallon Pittsburgh-Des Moines Double-Ellipsoidal Elevated Steel Tank is of a type and size widely favored by industrial plants, hospitals, institutions and smaller communities.

The tank and its 100-foot tubular column tower are of welded construction. The pleasing appearance of the unit results from balanced, functional design; it is standardized throughout for maximum dollar value to the purchaser.

Write for our complete Elevated Tank Catalog, free on request.



100,000-gallon P-DM dual service elevated steel tank at Hartford Special Machinery Co., Simsbury, Conn.

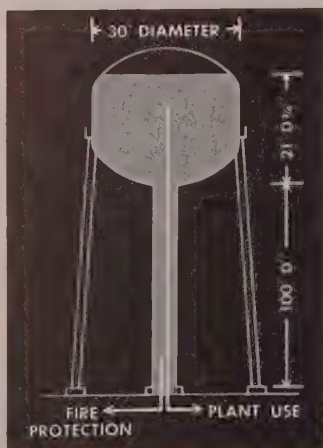


Diagram illustrates plant-use storage down to 75,000 gallon level. Balance of tank and riser capacity reserved for fire protection only, supplying automatic sprinkler system.



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DES MOINES (8).....921 Tuttle Street
 DALLAS (1).....1225 Praetorian Building
 SEATTLE.....528 Lane Street
 SANTA CLARA, CAL.....627 Alviso Road



SUPERVISING the jobs

T. H. Lind, job superintendent, and K. V. Bull, engineer, are key men for C. E. Youngdahl & Co. which recently won a \$1,478,000 contract for the erection of ten reinforced concrete steel frame buildings on a new high school project at Vancouver, Wash. This is a 450-day job which has been under way since early October.

Edward J. Clark is general superintendent for Viesko & Post and Hoffman Construction Co., joint contracting firm which is putting up the \$8,000,000 department store at Salem, Ore., for Meier and Frank Co., Inc.

D. D. (Don) Morgan, project manager, and H. R. Carver, general superintendent, with H. D. White, general foreman, are top men on construction of a motel at Marysville, Calif. Contract is being executed by Rice Bros., Inc., at a cost of about \$200,000.

Charles J. Johnson, project manager, and William R. Wilson, super-

intendent, assisted by O. R. Kennen, Jr., are top men for Parker Johnson Co. which recently received a sub-contract at about \$250,000 for concrete and reinforcing steel superstructure of the Columbia River Bridge at Umatilla, Ore. Prime contractor is American Bridge Division of U. S. Steel Corp.

Phil Treat, general superintendent; Fred Maas, job superintendent; Harry Scott, field engineer, and "Doc" Shaw, office manager, are top men on the construction of Westchester High School, Los Angeles. This is a 450-day contract which recently went to J. C. Boespflug Construction Co. on a bid of \$4,213,000.

C. U. Forrest is project manager for Robert E. McKee on a \$3,800,000 construction of two hangars (maintenance) at Kirtland AFB, Albuquerque, New Mex., for the Corps of Engineers. General superintendent is A. W. Irwin, who recently replaced L. V. Jorgensen in the spot. The following are foremen: Jack Wallace,

ironworker; Charles Westerhold, carpenter; Paul Martin, brick; and James Powell, labor.

C. H. Taylor, general superintendent, and John Medley, assistant superintendent, are top men heading the crew of Haddock Engineers, Ltd., working on the erection of four buildings at Kirtland AFB and other buildings at Sandia AFB in Albuquerque, New Mex. Carpenter foremen are: Tom Chapel, Floyd Bentley, "Bill" Rillinger, Harold Noble, and Ray Cook. This contract is expected to end March 1955.

B. H. Pebley is general superintendent and Fred Singleton is assistant superintendent for North West Engineering Co. on a grading and paving job consisting of a 6-mi., 4-lane highway, Denver to Broomfield,



White

Pebley

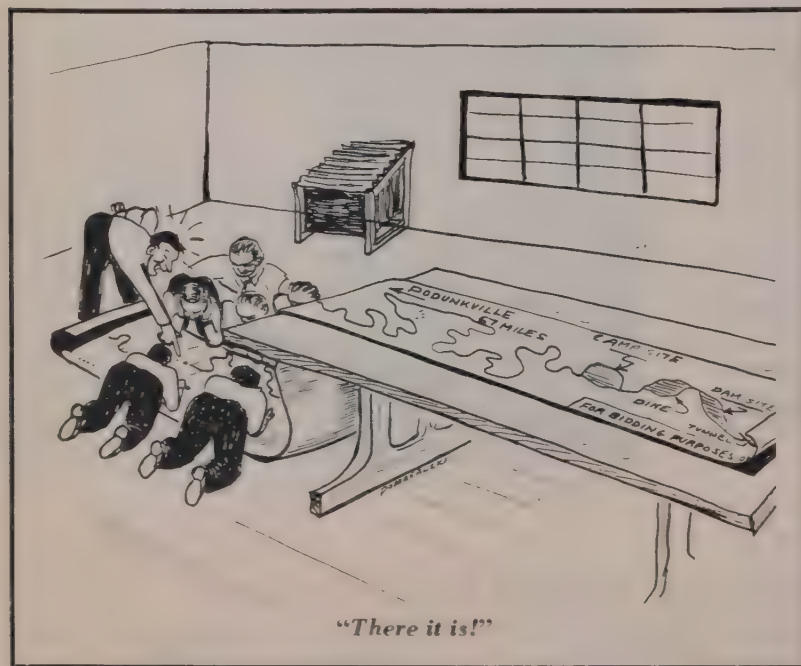
Colo. Also working on this stretch of the Valley Highway are: Guy Mertz and Nolan Yates, grade foremen; George Babb, structures foreman; N. H. Christy, pipe foreman, and Tex Hayes, master mechanic. Val White is office manager.

John N. Matich, project manager, and Ed Morse, superintendent, are top personnel on a \$183,894 contract recently awarded Matich Brothers for highway work in San Bernardino County, Calif., about 2 mi. north of Redlands. Work involves 1.6 mi. to be graded and surfaced. Charlie Harp is concrete foreman. Frank Garcia is plant-mix foreman and Sam Payton is master mechanic. James Whelan is acting as purchasing agent.

Dave Boswell (not "Broswell" as misspelled in the Nov. issue) is directing the contract for earthwork, clearing, and structures in connection with the rehabilitation of drains on the Middle Rio Grande project in New Mexico. Assisting him is Charlie Gardner. The work is being done by Boswell Construction Co. for the Bureau of Reclamation at a cost of \$127,989.

Dan Ratliff is the superintendent on a \$529,429 job of grading, draining, surfacing, and miscellaneous work on

Down-time By Domagalski



"There it is!"

See manufacturer's listing page 13H, Yellow Section →

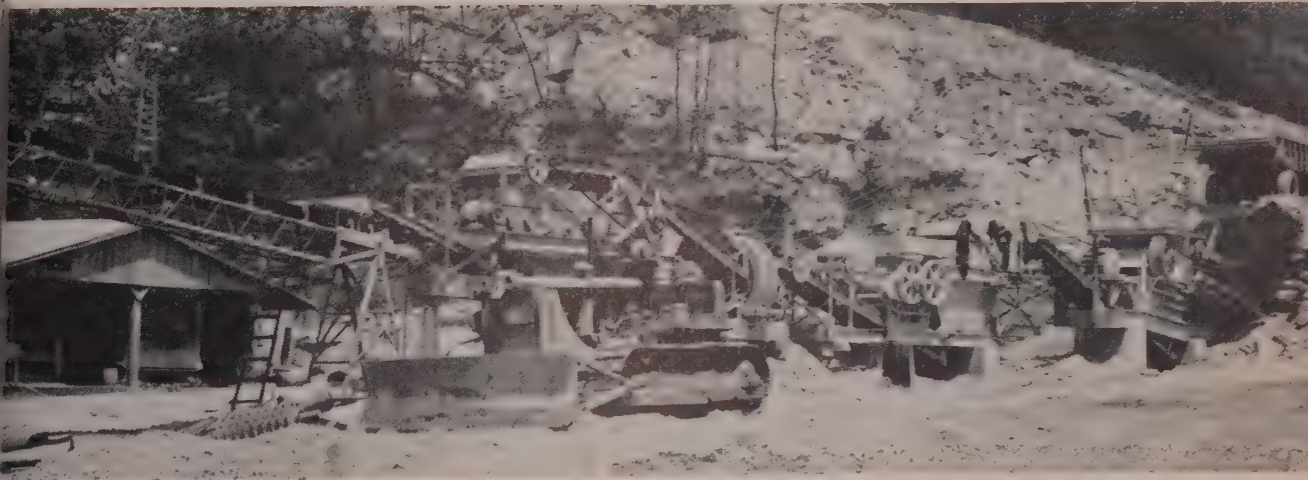
WESTERN CONSTRUCTION — January 1955

On the West Virginia Turnpike

HOW CAT* ENGINES HELPED PRODUCE 3,000,000 TONS OF CRUSHED ROCK —IN A HURRY



Lambert Brothers crushing plant uses a D13000 to help produce 1,000,000 tons quickly.



Two Cat Electric Sets supply all the power for Central Materials crushing plant.

BECAUSE the 88-mile West Virginia Turnpike was to be paved in four months, 3,000,000 tons of rock required for base material had to be crushed and stock-piled starting in mid-winter. At the seven crushing plants, Caterpillar yellow was a predominant color.

Reported L. Freeman, plant foreman, Central Materials Corp., Canandaigua, N. Y.: *"These Caterpillar Diesels are the answer to the prayer and wishes of a rock-crushing company. They furnish all our electric power. We needed an absolutely dependable power supply and the Cat Engines gave it to us. They couldn't be better."*

Central Materials supplied 500,000 tons from two plants. A D386 and a D364 Electric Set powered a Cedarapids crusher designed to produce 250 tons an hour. A D8 with 'dozer worked at the quarry and a No. 12 Motor Grader leveled at the stockpile.

Reported Charles Ogle, superintendent of Lambert Brothers, Inc., Knoxville, Tenn.: *"Our Caterpillar Diesel Engines stand up under hard conditions. They require less attention than other diesels. The abrasive dust from the crushers does not get into their internal parts to cause expensive wear and down time."*

Lambert Brothers plant produced 1,000,000 tons. A Caterpillar D8800 Electric Set powered belts and screens.

Two Telesmith 30 x 42 jaw crushers were each powered by a D13000 Engine. A D6 worked the quarry.

Here then are two good reasons to have modern, heavy-duty Cat Diesels on your side when a big job has to be done and done fast. One contractor liked their dependability, the other the way their seals and filters eliminated premature wear.

Next time you order new equipment, get the best—specify Caterpillar Engines. Leading manufacturers of crushers, excavators, compressors and other construction machinery can furnish Cat Engines as part of their equipment. And when it's time to repower, your Caterpillar Dealer can show you 12 sizes of engines and electric sets up to 500 HP and 315 KW.

Caterpillar Tractor Co., San Leandro, Calif.; Peoria, Ill., U. S. A.

CATERPILLAR*

*Both Cat and Caterpillar are registered trademarks—®

**MODERN
HEAVY-DUTY POWER**



CONSTRUCTION OF A new dormitory on the campus of the Colorado A. & M., Fort Collins, Colo., is a \$1,250,000 contract of Mead & Mount Construction Co. Here are some of the chief personnel: (left) **John T. Hogan**, general superintendent; **Barney Overhiser**, ironworker foreman; **Bob Hinkle**, carpenter foreman; **Don Bashor**, labor foreman.

and **Jim Hogan**, assistant superintendent; (center) **Don Chestnut**, plumbing superintendent, and "**Doc**" **Gray**, heating superintendent, working for Johnson-Davis, subcontractor; and (right) **R. D. Pierce**, electrical superintendent for Fort Collins Electric Co. Begun last June, the job is scheduled for completion in September this year.

a 2.9 mi. stretch of Thermopolis-Shoshoni road in Wind River canyon from tunnels north, in Fremont and Hot Springs counties, Wyo. Inland Construction Co. has the contract. Most of excavation is solid rock. The job started in late October and is expected to be finished this August.

* * *

Larry Mahan, superintendent, and **Bill Ille** and **Larry Heilman**, foremen, are among the top men working for S. Birch & Sons Construction Co. on a \$336,198 award for grading, draining, surfacing, and miscellaneous work on 3.5 mi. of the Rawling-Medicine Bow road, Carbon County, Wyo. This is a 6-months' job which has been going since Oct. 10. **K. N. Dahl** is in charge of the office.

Frank G. Huston, superintendent, and his assistant **Thomas E. Mason**, are supervising the construction of a building for the California Division of Highways at San Luis Obispo, a \$358,000 contract which Lew Jones Construction Co. has under way since early November 1954 and expects to finish by late June.

* * *

Richard A. Mortensen is supervising the construction of 2.3 mi. of grading and oiling on the Shady-Canyonville section of Pacific Highway north from Myrtle Creek, Douglas County, Ore., for Kuckenberg Construction Co. Other important men on this \$620,567 contract are **Jack Griffin**, foreman, and **E. I. Park**, timekeeper.

Earl Sherman is directing the construction of the Arroyo High School in El Monte, Calif., for the Crown Construcion Co. which is doing the \$1,042,327 job. Other important personnel are **Allen Katz**, project engineer; **Thor O. Thorson**, superintendent; and **Edward Shapiro**, administrator. A 300-day job, work started in mid-October last year.

* * *

Charles H. Calkins, project manager; **Floyd E. Muth**, general superintendent; **Fred Muth**, clearing and drainage superintendent, and **Mike Berosik**, equipment superintendent, comprise the top personnel working on a 4.5-mi. grading and paving contract on Highway 2-A, Midlakes to Kirkland, King County, Wash. This \$422,063 contract was awarded to Herman Kathman, contractor, who started work in early November and expects the job to run 250 days.

* * *

Hubert M. Roth, general superintendent, heads the construction personnel of England & Roth Construction Co. which was awarded a contract for grading, borrow-topping, and draining a section of road in Fergus County, Mont., from Grassrange to Malta. Acting as foremen on this \$680,303 project are **D. F. England**, **H. E. Roth** and **R. A. Millard**. **J. R. England** is in charge of the contractor's home office in Rapid City, So. Dak.

* * *

Rexford B. Stuart, superintendent; **James Davis**, grade foreman; and **Ralph Stalsberg**, clearing foreman, are top personnel of the Curtis Construction Co. which is working on 11.2 mi. of grading on the Priest River road in Kaniksu National For-

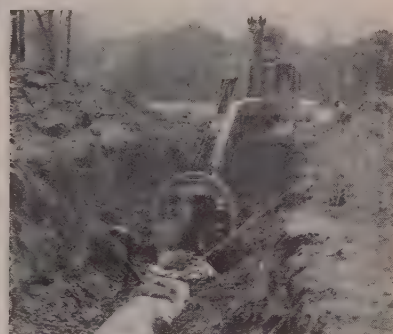


COLORADO STATE Highway Department's new office building is fast going into the last construction stages. **C. C. Marrs** is project manager for C. H. Leavell & Co., which is doing the \$1,875,000 job. Pictured here are four of the principal supervisors (l. to r.) **J. A. Filippini**, ironworker foreman; **J. S. Cohrs**, assistant engineer; **H. E. Monroe**, superintendent, and **J. A. Trujillo**, engineer. Others, not shown, are **C. W. Crews**, superintendent of labor, and **Warren Kruse** and **James Halepeska**, carpenter foremen. "**Buzz**" **Gray** is resident engineer.

MORE CYCLES PER DAY



AS A 1¾-YARD DRAGLINE. This fast swinging K-375 rig digs coral rock and sand in Florida. Speed-o-Matic control makes dig-swing-dump one fluid motion because operator has perfect "feel" of the load. There are no grabby clutches that produce lag and lost motion.



AS DEEP-DIGGING TRENCH HOE. This K-360 with 1¾-yard hoe makes full use of its 142 net hp, a natural for those deep, tough sewer jobs.



AS A HEAVY-DUTY 1¾-YARD SHOVEL. High strength components—precision machined—assure profitable, trouble free performance.

K-300 series shovel-cranes with Speed-o-Matic control, 142 net hp, plus greater "live weight" can boost your output up to 25%

It's not only how much per bucket—but *how many* buckets per day that piles up profits for shovel-crane owners. Smooth, instantaneous response of Speed-o-Matic power hydraulic control means faster, more productive cycles. Gives operator positive control for pinpoint accuracy and maximum safety. Cuts end-of-day fatigue too!

The 142 usable net hp gives you more digging or lifting power. And it has the built-in stamina

and "live weight" necessary to produce under continuous use of this extra horsepower.

Equally important, with full convertibility you have maximum use of your K-300 rigs for hundreds of 1¾-yard jobs. Ask your distributor, or write for K-300 series literature now.

13,626-A

LINK-BELT SPEEDER CORPORATION
Cedar Rapids, Iowa

BUILDERS OF A COMPLETE LINE OF CRAWLER, TRUCK AND WHEEL-MOUNTED SHOVEL-CRANES

LINK-BELT SPEEDER

See manufacturer's listing page 33H, Yellow Section



Building a Reputation

Consistent achievement year after year — that's what makes a reputation, especially in a field as demanding and complicated as tunnel construction.

In the field of bonding, too, consistently good service to contractors has won an outstanding reputation for the Aetna Casualty and Surety Company. For years, the Aetna has been known for prompt, expert service — on jobs of all sizes, in all sections of the country.

The next time you need a bond, why not join the many hundreds of leading contractors who bond with Aetna — always.

No job too big--no job too small

ÆTNA CASUALTY AND SURETY COMPANY

AFFILIATED COMPANIES: ÆTNA LIFE INSURANCE COMPANY

AUTOMOBILE INSURANCE COMPANY • STANDARD FIRE INSURANCE COMPANY

HARTFORD 15, CONNECTICUT



est, Idaho, a \$258,045 project which got under way the middle of November and will run 180 days.

* * *

Claude McKim, superintendent, assisted by Walt Drexler, shovel foreman; Bob DeCamp, clearing foreman; and John Baker, drill foreman, is directing the work of Miller & Strong, consisting of 2.4 mi. of grading on the Lewis & Clark highway east of Kooskia, Idaho. Master mechanic on this \$141,340 job is Lee Colwell.

* * *

B. A. Snow, general superintendent, with the aid of Ernest Rans, assistant superintendent, is supervising the construction of the Arapahoe steam plant at Denver, which is being built for the Public Service Co. of Colorado by the Ebasco Services, Inc., at a cost of about \$15,000,000. Others among the key men are K. S. Stanton, chief inspector; G. G. An-



Stanton

Rans

McFadden

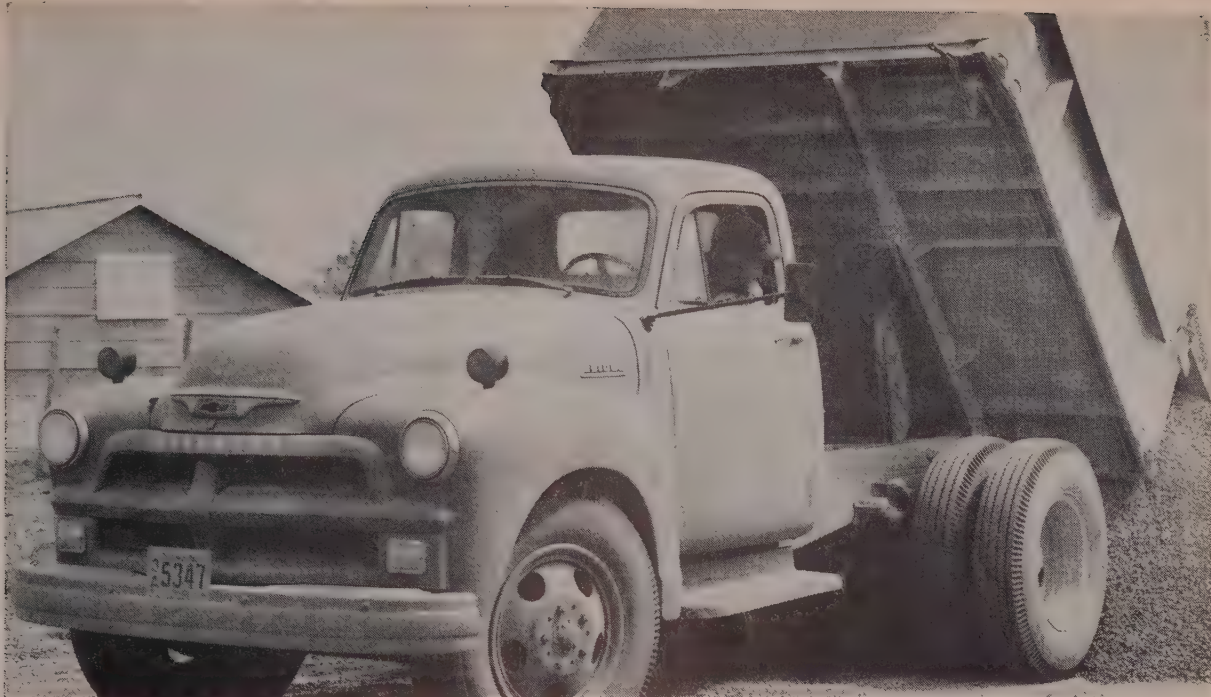
derson, office engineer; D. P. Durkee, purchasing agent; W. H. Thomas, field engineer; and the following superintendents and foremen: Superintendents: B. W. Bates, pipe; G. R. Fickel, electric; J. H. Maxwell, boiler; and L. H. McFadden, steel. Foremen: M. M. Carraher, boiler-maker; P. A. Callicrate, millwright; A. E. Carlson, crane operator; E. H. Brown, cement finisher; W. A. Fee, brick; A. R. Collins, carpenter; and F. H. Covey, labor. Job is scheduled to be completed by mid-year.

* * *

O'Niel Jones, project manager; A. M. Stolzenburg and Carl Lowry, superintendents, are top men working for Albert Lalonde Co. on this contractor's job consisting of 14 mi. of grading, graveling, liming, and surfacing, including 715,883 cu. yd. of excavation, in Teton County, Mont. This is a \$516,303 award, a 300-day job.

* * *

Paul Cross and Cliff Earsley, superintendents; and Earl Shannon, assistant superintendent, comprise the top personnel working on a contract recently awarded to Henry Thygesen & Co. for 2.4 mi. of grading and surfacing on the Cerrillos road-Las Vegas highway in Santa Fe, New



NEW CHEVROLET TRUCKS

**engineered and designed
with your profit in mind!**

Everything about these new Chevrolet trucks spells *profit!* Their low cost, their stamina and dependability, even their traditionally higher resale value!

COST LESS TO BEGIN WITH

That's right, Chevrolet brings you America's lowest-priced line of trucks—so you save right from the start. The beauty of it is, you go right on saving! With the high compression ratio of Chevrolet's three great engines, you register more miles on the job for each tankful of gas. You can count on fast starts; easy pulling up steep grades. You stay on schedule and keep the profits coming in *on time!*

COST LESS TO MAINTAIN

That's because of the rugged strength and stamina engineered into every new Chevrolet truck. They stay on the job longer (actual owner reports prove it!), cutting your maintenance costs right to the bone. Look over the many advance-design features in the next column and you'll begin to see why.

Your best bet is to talk trucks with your Chevrolet dealer. He'll tell you all you want to know about these Chevrolet profit-makers! . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



CHEVROLET ADVANCE-DESIGN TRUCK FEATURES

THREE GREAT ENGINES—The "Jobmaster 261" engine* for extra heavy hauling. The "Thriftmaster 235" or "Loadmaster 235" for light-, medium- and heavy-duty hauling. **TRUCK HYDRA-MATIC TRANSMISSION***—offered on 1/2-, 3/4- and 1-ton models. Heavy-Duty **SYNCHRO-MESH TRANSMISSION**—for fast, smooth shifting. **DIAPHRAGM SPRING CLUTCH**—positive-action engagement. **HYPOID REAR AXLE**—for longer life on all models. **TORQUE-ACTION BRAKES**—on all wheels on light- and medium-duty models. **TWIN-ACTION REAR WHEEL BRAKES**—on heavy-duty models. **DUAL-SHOE PARKING BRAKE**—greater holding ability on heavy-duty models. **RIDE CONTROL SEAT***—eliminates back-rubbing. **LARGE UNIT-DESIGNED PICKUP AND PLATFORM STAKE BODIES**—give trip-saving load space. **COMFORTMASTER CAB**—offers greater comfort, convenience and safety. **PANORAMIC WINDSHIELD**—for increased driver vision. **WIDE-BASE WHEELS**—for increased tire mileage. **BALL-GEAR STEERING**—easier, safer handling. **ADVANCE-DESIGN STYLING**—rugged, handsome appearance.

*Optional at extra cost. Ride Control Seat is available on all cabs of 1 1/2- and 2-ton models, standard cabs only in other models. "Jobmaster 261" engine available on 2-ton models, truck Hydra-Matic transmission on 1/2-, 3/4- and 1-ton models.



R. T. BICKHARD CONSTRUCTION CO. is handling the construction of the 15-story Farmers Union Bldg. going up in Denver, a \$3,000,000 structure. Shown here are (left) "Hank" Ruff, labor foreman; Ernie Little, steel superintendent; J. D. Martin (Jumbo), project superintendent, and Bob Graham, job engineer; (center) Dick Swartz, carpenter fore-

man, and Elwood Cottrell, cement finisher foreman; (right) Frank Kronquist, carpenter foreman; Everett Trujillo, labor foreman; Bob Armstrong, ironworker foreman; Don Glass, carpenter foreman, and Felix Trujillo, labor foreman. Leo Lavelle (not shown) is another ironworker foreman on the job. Building will soon be turned over to the owner.

Mex. This \$179,261 job was scheduled to start Dec. 6, 1954, and is expected to take 125 days.

* * *

C. R. Jurgensen and **Walter Gott**, both superintendents for O. D. Cowart, are supervising a \$562,052 job of grading and surfacing 8.3 mi. of the State College south road in Dona Ana County, New Mex. **Clyde R. Fulton** and **Cecil Raley** are foremen on the work. Office manager is **Fred Roeder**.

* * *

Charles A. McMahon, who recently completed the Anheuser-Busch Brewery construction in Los Angeles, has been chosen project superintendent on the Big Broadway-Valley Department Store to be constructed at the corner of Van Nuys Blvd. and Roscoe Blvd., Los Angeles, by **Louis C. Dunn, Inc.**, contractor.

* * *

R. M. Skamnes, acting as superintendent, assisted by **Frank Wiggs**, foreman, is supervising a contract awarded **Brighton Sand & Gravel Co**

and **R. M. Skamnes** for 1.3 mi. road work on County Rt. 901 and for construction of two reinforced concrete and steel bridges across the Mokelumne River near Lockeford, Calif. Job will probably end in June this year.

* * *

Bill Cole is superintendent for **Peter Kiewit Sons' Co.** on about an 8-mi. job of grading on Oregon Forest Highway, Curry County, Ore., a \$723,731 award. **Harry Eckstein** is job office manager. Work got under way Nov. 1, 1954, and will run for 400 days.

* * *

G. C. Blackwood, general superintendent, assisted by **O. A. Peters** as general foreman, and **Joe Vasilinda**, brick foreman, is supervising the construction of a headquarters building at **Kirtland AFB**, Albuquerque, New Mex. **Foster Construction Co.** is doing the job for the Corps of Engineers.

* * *

R. R. Thomas, Sr., superintendent; **G. Sutherland**, foreman; and **W.**

Tange, Jr., timekeeper, are among the key men working on the Riverside High School auditorium at Riverside, Calif., a \$600,000 job being executed by the **Baruch Corporation**. Construction is expected to be finished in March 1955.

* * *

Albert S. Olsen is superintendent for **Meredith & Simpson**, contractor on addition to the **Coachella Valley Union High School** at **Coachella**, Calif., a lift-slab construction.

* * *

Floyd C. Cantrell of the firm of **Todd & Cantrell Construction Co.** is supervising construction on the bridge north of **Indio**, Calif., on Highway 99. Bridge railing forms of contractor's own design are being used on this and other bridge structures in the state.

* * *

Arnold Lindeland and **Stanley Quigley** in partnership are directing the work of grading 18.3 mi. on the Old Oregon Trail and constructing a 60-ft. bridge and 13,000 rods of fencing. This work is in **Malheur County**, Ore. Contract was awarded to **Earl L. McNutt** and work started in September last year and will probably end late in 1955. It is a \$1,251,712 job.

* * *

R. A. Neumeister is superintending a \$371,955 job involving construction of 1,850 lin. ft. of steel piling bulkhead and dredging 350,000 cu. yd. of fill for channel in the state of Washington. **Hugo Johnson** is dredge superintendent. **G. Palmberg** is the contractor.

* * *

W. O. (Bill) Loy as general superintendent for **Fredericksen & Kasler** heads up a job for this contractor in **Imperial County**, Calif. **George Bell** is plant superintendent and **Jimmie Fair** is street foreman on the same project, which is just about completing. Contract price was \$333,333.



NEARING COMPLETION at Albuquerque, New Mexico, is the new sewage treatment plant. **C. H. Leavell & Co.** is the contractor on this \$1,200,000 project. **Raymond Nethers** is inspector for the City. Here are some of the contractor's personnel: (l. to r.) **W. H. Haws**, assistant superintendent; **B. C. Johnston**, steel foreman, and **Paul Nigh**, general superintendent; **D. C. Roderick**, labor foreman; and **E. K. Brown**, carpenter foreman.

ON THE JOB,



... ON TIME!

STANDARD PORTLAND
MODIFIED PORTLAND
HIGH EARLY STRENGTH
LOW HEAT
SULPHATE RESISTANT
PRONTO (Pipe Cement)
PORTLAND POZZOLAN
BRICK MIX
PLASTIC CEMENT
OIL WELL CEMENTS

WITH THE WEST'S LARGEST PROPRIETARY FLEET OF BULK CEMENT TRUCKS

Good service requires good equipment — so Permanente bought the best! More than \$800,000 worth of high speed, lightweight, diesel-powered tractor-trailer units, built by two of the Nation's leading manufacturers of heavy duty trucks. The units were specially designed for high efficiency operation on the roads of Northern California and Western Nevada, and to most effectively meet the varying delivery problems of customers throughout the territory.

The extensive use of aluminum in the tractors, trailers and bulk tanks resulted in such a reduction of dead weight that pay load capacity has been increased to 143 barrels per unit — over 8,000 lbs. more cement per trip than the older style trucks.

Permanente's new Lightweight Truck Fleet, supplemented by regular contract carriers, will enable the Company to strengthen its services to customers throughout Northern California and Western Nevada — and will assure availability of all required equipment during the peak delivery periods of the construction season.



*On the job—On time **

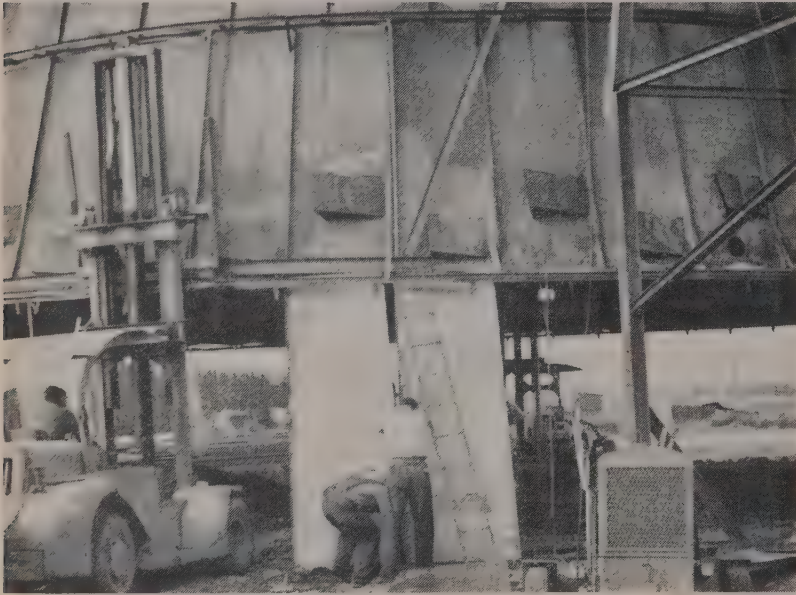
PERMANENTE, SANTA CLARA, YOSEMITE AND KAISER BRANDS OF PORTLAND CEMENT AND PERMANENTE LIME PRODUCT:

PERMANENTE
CEMENT COMPANY

OAKLAND • PORTLAND • SEATTLE
ANCHORAGE • FAIRBANKS • HONOLULU

* SERVICE MARK

TRICKS of the TRADES



Time saving lift on waste burner

USING FOUR Hyster "150" Lift Trucks, the Olson-Ross Lumber Co. burner at Medford, Ore., now has a 20% increase in burning area. The company's burner was originally a 60 x 60-ft. model rated at 100,000 fbm. on a single shift. When they added equipment and increased their cut to 200,000 fbm. each shift, a larger burner was necessary.

A unique plan for on-the-spot en-

largement was advanced by the Medford Blow Pipe Co., Inc., and the Rees Blow Pipe Co. of San Francisco. The four Hyster units were positioned at strategic spots around the burner and the entire 20-ton structure was raised 10 ft. while a new course was constructed at the base. The entire operation was completed without difficulty and with a minimum loss of operating time.

New vermiculite use

AN UNPROTECTED steel roof construction seven times more fire resistive than anything else in its field was recently announced in Chicago at the completion of Underwriters Laboratories tests. The roof, consisting of reinforced vermiculite insulating concrete on a ribbed steel deck whose underside was completely exposed to the fire, withstood temperatures ranging up to 1,830 deg. F. for 1 hr. 49 min.

Unprotected rolled structural steel has a fire resistance of approximately 15 to 20 min. according to Edward R. Murphy, director of the Vermiculite Institute, sponsors of the test. "This

is the first unprotected roof construction using vermiculite concrete ever tested, and points to greater plant safety and considerable insurance savings," he said. Cost of the new system is comparable with other unprotected systems.

In many fires involving unprotected steel roof decks, the heat causes the decks to buckle. Molten pitch or asphalt from the vapor barrier or roofing then pours down on the fire and adds to the blaze's intensity. Even at the end of the test period, the vermiculite-steel roof deck did not collapse, and deflections were nominal.

The test slab consisted of 3 in. of 1:4 mix reinforced vermiculite con-

crete on Detroit Steel Products Company's Holorib steel deck. A steel beam supported the deck in the center. The beam was individually protected with metal lath and vermiculite plaster. The slab, loaded to 40 lb. per sq. ft. was then subjected to temperatures in accordance with American Society of Testing Materials standard fire test.

Controlled curing

A NEW AND INEXPENSIVE method for curing concrete test cylinders in the field under controlled humidity and temperature conditions has been developed by a Midwestern concern. The test cylinders are placed in a ruggedly constructed metal curing can, lined with a thick layer of Dupont cellulose sponge. This interlining permits the absorp-



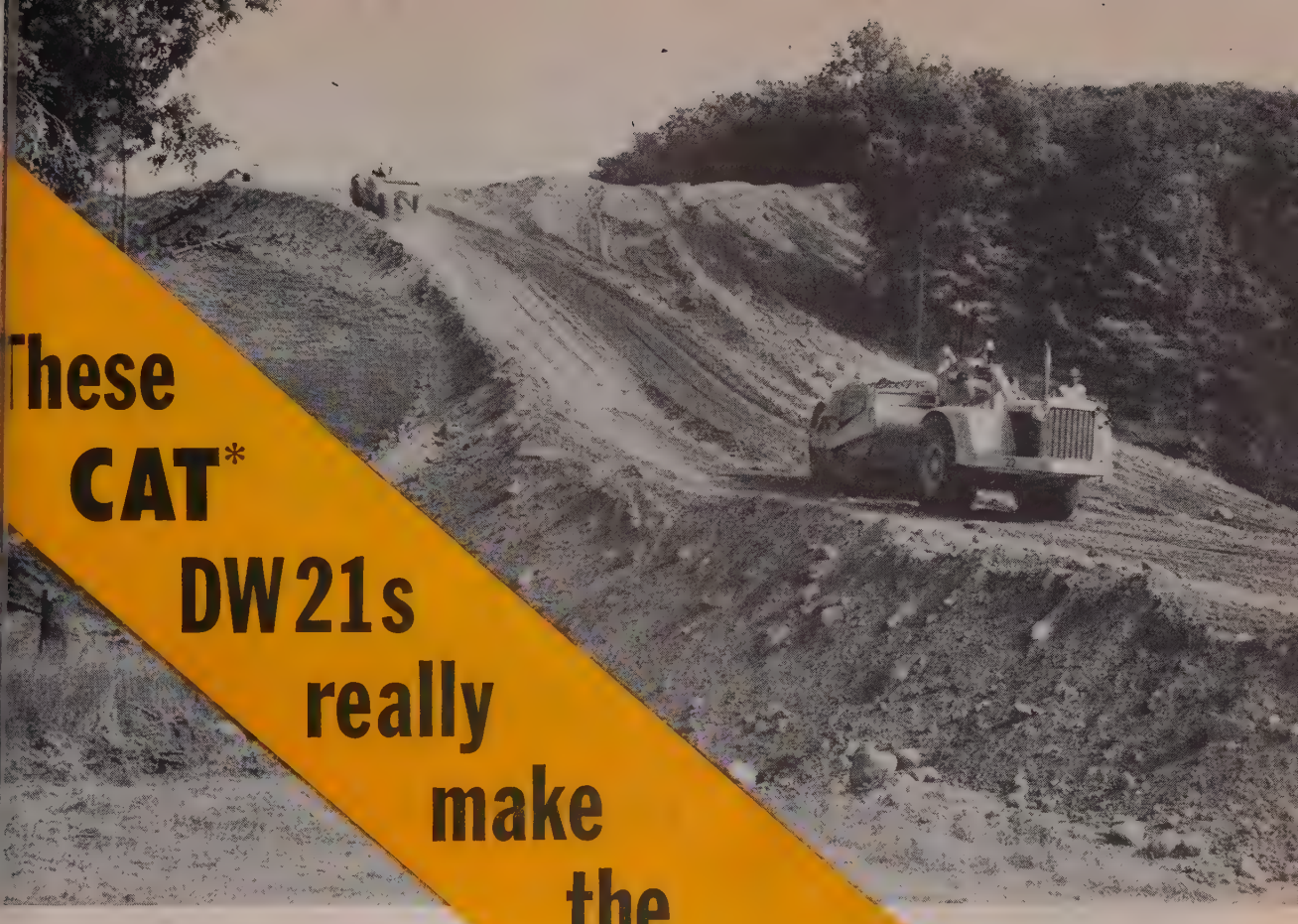
tion of 2 to 4 qts. of water and will retain 60% of this water at 7 days. The bottom of the can has a special gasket that insures a complete seal when the top is in place.

With this equipment, concrete test cylinders can be cured satisfactorily in a field laboratory during the hot summer. After the test cylinders have been prepared and the sponge liner of the curing can thoroughly saturated with water—then adequate humidity is assured for proper curing. During winter field operations, the liner used in a dry condition helps as an insulating agent at low temperatures. The "Acme" curing can is made by E. W. Zimmerman of Chicago, Illinois.

For moving mountains

THE LARGEST BULLDOZER BLADES ever manufactured are being produced by Gar Wood Industries, Wayne, Mich. The giant dozers have a moldboard measuring 5 ft. high and 24 ft. long. Each dozer is mounted on two Allis-Chalmers HD-

See manufacturer's listing page 13H, Yellow Section →



These CAT* DW21s really make the grade

THAT's a 28% grade these Caterpillar DW21 Tractors with No. 21 Scrapers are working.

They're starting an 85-foot cut through sandy clay and boulders. The DW21s load on the level, haul downhill, then scoot back up that slope for more.

"A steep grade like this is certainly a tough tryout for any rubber-tired machine," says Oscar Lindstrom, superintendent for Victor Nelson Construction Company, "but those DW21s take it in stride. They're about the best earthmovers you'll find on rubber."

Here, southwest of Slinger, Wisc., constructing a new grade and right-of-way for U.S.-Wisconsin No. 41, each of four Cat DW21 Tractors is moving 250 yards an hour—830,000 yards in all. "They handle a great deal of payload in a day," says Superintendent Lindstrom.

Other users say much the same. One reason: the DW21 is the only two-wheel earthmover designed and built by one company—every part *matched* to deliver peak performance on the job.

Another: its 225 HP is all there at the flywheel. As Mr. Lindstrom points out, here's one rig that won't smother on grades.

And a third reason: always handy with prompt, genuine parts service is your Caterpillar Dealer. He'll be glad to demonstrate this high-speed, high-capacity, big yellow machine any time you say.

Caterpillar Tractor Co., San Leandro, Calif.; Peoria, Ill., U.S.A.



CATERPILLAR*

*Both Cat and Caterpillar are registered trademarks—®

**NAME THE DATE...
YOUR DEALER
WILL DEMONSTRATE**

20 crawler tractors which have been welded together to operate as one tractor to supply the power needed to move the many tons of coil handled by the dozer.

Diesel problems cut

GONE ARE THE DAYS of expensive tooling for diesel fuel systems. The only tools needed for normal maintenance of the new Cummins PT Fuel System are: two end

wrenches; one allen wrench; a pair of snap-ring pliers; a screw driver; and injector cup wrench; and an injector plug gage.

Field reports show that Cummins PT fuel pumps have operated over 250,000 mi. without adjustment. Cummins believes that the PT fuel pump is the only diesel fuel pump in commercial use that does not have to be timed to the engine. The PT Fuel System is now standard on all models

of Cummins Diesels. In addition, the PT Fuel System may be adapted to all Cummins diesels built since 1932.

Valuable timber design booklet

The American Institute of Timber Construction now has available for distribution copies of the "AITC Timber Construction Standards," a concise booklet covering the design, fabrication and erection of engineered timber construction, and standard practices of the industry. To quote from the foreword of the booklet, "The Standards are based on the most reliable technical data available, and those aspects of commercial practice which have been found to be most practical and economical in the design, fabrication, erection and utilization of structural timber framing." Copies of the publication are available at the special introductory price of \$2.00 from AITC headquarters, 1757 K Street N.W., Washington 6, D. C.

Long lasting floats

AN AGE OLD PROBLEM of how to keep a marine float afloat year after year without constant repair, finally has a practical solution. Overcoming the big problem of water-soaked logs, cracked or rusted pontoons, the Pointer-Willamette Company of Edmonds, Wash., has developed a unique molded fiberglass pontoon, or floating foundation. The life expectancy of this type floating foundation is not known, but navy people feel that 20 yr. without any attention is a very conservative estimate. Compared with the 4 or 5 yr. expected life of a good cedar log, this new development is welcome news to marine facilities operators everywhere.

The Feather-Ride Marine Float makes use of the new type floating foundation in a completely engineered, prefabricated marine structure. The marine float sections are available in one length, 16 ft., but in four different widths, 4, 5, 7, and 9 ft. These sections will fit together end to end, side by side, end to side or in any manner to make a complete float any size or shape.

Assembly is extremely easy with all hardware, treated wood sections, and floating foundations furnished. They are light in weight; a 4x16-ft. section weighs as little as 530 lb., which means it can be assembled on shore if desired, picked up by four men and carried to the water.



this laboratory plays football

Skip Collins looks ready for anything. Is he ready for polio?

Last spring he received a vaccine designed to protect him from infantile paralysis. Some time this year, after studying records on Skip and nearly two million other youngsters, scientists will know if the vaccine works. Skip's a football-playing laboratory, helping them out.

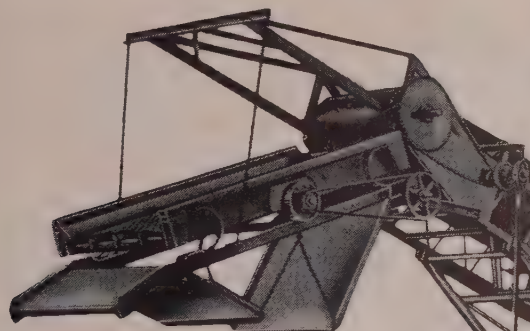
Your March of Dimes contributions not only make the vaccine trials possible, they also give a chance for a better life to thousands who have polio.

Join THE MARCH OF DIMES

The National Foundation for Infantile Paralysis

The Only COMPLETELY PORTABLE Conveyor-Screen Plant on the Market

Offering All of
These Advantages:



50'x36" conveyor with 8'x48" screen, 36½ hp. gasoline engine, dozer trap and plate feeder.

KOLMAN Conveyor-Screen Plant

• NO DISASSEMBLY FOR TRANSPORTATION

The heavy-duty KOLMAN conveyor is capable of supporting the complete unit during travel. You'll save valuable time with its rapid set-up and take-down.

• SCREEN FOLDING FEATURE

(on single-deck screens)
Vibrating screen folds easily into towing position without disassembly.

• PORTABLE TRAP AND PLATE FEEDER

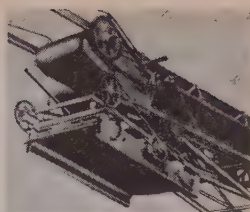
Reciprocating plate feeder is built right into trap! Both trap and feeder are part of conveyor, and portable without disassembly.

• SINGLE, DOUBLE OR TRIPLE-DECK SCREENS

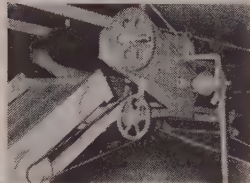
• MOTOR-TO-GROUND CONTROLS

Here is the most complete and versatile loading and screening plant that money can buy. Its combination of features *can not* be found elsewhere! Adaptable to any type of feeding—dozer, dragline, shovel, front-end loader or other. Available in any length and in widths from 18" to 36", with vibrating screen to match.

These plants are saving money for contractors from coast to coast with their outstanding performance records. If you handle sand, gravel, crushed rock, clay, dirt, coal, coke, or any similar bulk material, there's a KOLMAN combination suited to your job. Best of all, you'll find a KOLMAN plant costs less to buy. Let us prove it—write now for full details!



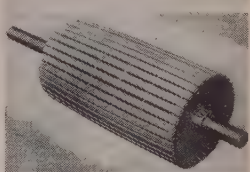
Folding feature permits weight of screen to be shifted back under conveyor.



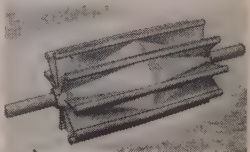
Head pulley clutch permits operation of screen while conveyor belt is idle.



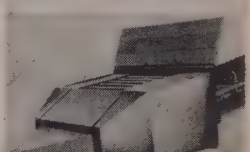
Motor-to-ground controls extend throttle and clutch for easy one-man operation.



Bar type head pulley eliminates the necessity of lagging. Extended shaft.



Self-cleaning wing type tail pulley protects belt against stone cuts and bruises.



Easily-portable dozer trap is built onto tail section. Grizzly bars stop large rocks. Designed for easy access to tail section.

KOLMAN MANUFACTURING CO.

5670 West 12th St.

Sioux Falls, S. D.

Please send () Conveyor Bulletin #101, and price of . . . lgh. () Vibrating Screen Bulletins #109, #112 and price of . . . " x . . . " () single () double () triple-deck.

Name

Company

Address

City

Distributors

S. A. Madrid, 1739 32nd Ave., San Francisco
Warnock-Bancroft Equip. Co., 9635 Rush St., El Monte, Calif.
Westate Machinery Co., 3017 Lincoln Lane, Billings, Mont.

See manufacturer's listing page 32H, Yellow Section

For your concrete forming needs...

EFCO "LIFETIME" STEEL FORMS

available
on a

**PURCHASE
BASIS**



Increase profits, reduce costs — with EFCO "Lifetime" Steel Forms. They save time, material, money. Adaptable to wide use. Available in many types of regular and special sizes.

WRITE FOR NEW CATALOG on EFCO "Lifetime" Steel Forms. And ask for details on Special Economy Steel Forms and the Economy Steel Form System on a rental basis.

ECONOMY FORMS CORP.

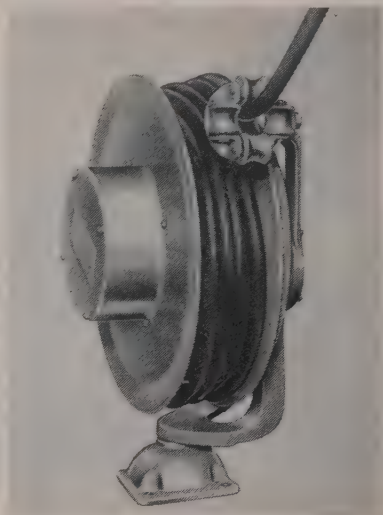
HOME OFFICE • DES MOINES, IOWA
DISTRICT SALES OFFICES: St. Louis, Mo. • Kansas City, Mo. • Lincoln, Nebr. • Minneapolis, Minn. • Ft. Wayne, Ind. • Cincinnati, Ohio • Cleveland, Ohio • Metuchen, N. J. • Springfield, Mass. • Rochester, N. Y. • Washington, D. C. • Decatur, Ga. • Dallas, Texas • Los Angeles, Calif. • Oakland, Calif. • Denver, Colo.

See listing page 21H, Yellow Section

TOOLS of the TRADES

Use the addresses listed for further information on any of these items

ELECTRICAL CABLE REELING UNIT—Industrial Electrical Works, 1503 Chicago St., Omaha, Nebraska, is now manufacturing an electrical cable



reeling unit. According to the manufacturer its operation simplifies and speeds up pay-out and take-up of elec-

trical power supply cables on hoists, cranes, and mobile equipment, thereby protecting the cables from tangling and unnecessary wear. The spring housing permits a large variety of springs, making the reel adaptable to a balance reel or hose reel. The weight of the unit is 25 lb. Construction includes a pivot base, reel hanger frame, and cable guide arm. Reel flanges and collection ring housing are made of cast aluminum. The entire collector ring is accessible for easy installation of the cable. The combination cable guide arm and junction box cover may be installed in any one of five positions. Descriptive literature is available.

A WALL CHART, furnishing condensed information on how end welded studs of many shapes and sizes are used for various fastening jobs is now available on request from the **Nelson Stud Welding Division** of Gregory Industries, Inc., Lorain, Ohio. The chart is illustrated with cutaway and line drawings of typical construction applications of studs and shows the equipment with which studs are welded to steel. Dimensions of most commonly used studs are listed. Also available is the Nelson catalog and data sheets.

AN IMPROVED MECHANISM that requires only finger-tip pressure for attaching and detaching the shop boom to a Unit hydraulic lift has been announced by **Unit Mfg. Co.**, 1251 Harmon Place, Minneapolis, Minn. The boom, which has a capacity of 500 lb., can be mounted or removed in less than a minute by means of the finger touch

AT LARGE!



Slashing Odd-Job Costs All over the Country

Be on the lookout for Mitromite Big-time operator. Fast worker, always on the move. Surprises you for jobs it tackles. Lifts, loads, digs. Pockets real money for owners. Swings 32" hoe bucket with ease; is deft at handling loads to 7 tons. A fast-change artist for shovel, crane, clamshell, dragline, trench hoe, magnet, pile driver. Mounts quickly, easily on most any truck, new or used. Carries low price tag. Get the facts. Harnischfeger Corporation, Pacific Division, Milwaukee 46, Wisconsin. Or better yet...

See Your P&H Dealer

See manufacturer's listing page 26H, Yellow Section



lock. The company claims that the boom is good for maintenance work in handling heavy loads of all kinds. Power is supplied by a hydraulic hand pump and cylinder. The fork and platform each have a capacity of 750 lb. and lift to 55 in. above floor level. Loads can be lifted either with the boom, fork, or platform.

NEW EQUIPMENT

For your convenience in obtaining more information quickly, the manufacturer's address is provided with each review.

Wide-base crawler for irrigation work

The Schield Bantam Co. of Waverly, Iowa, has announced a new wide-base version of its $\frac{3}{8}$ -cu. yd. crawler-mounted crane-excavator. It is designed for drainage and



irrigation work and ditch cleanout. The ditcher dumps freely to either side and provides high flotation for work in swampy areas. The track widths can be converted quickly to standard for normal operations. Free literature giving specifications and applications is available.

Allis-Chalmers adds to scraper line

Allis-Chalmers Manufacturing Co., Tractor Division, Milwaukee, Wis., has added a 15-cu. yd. struck, 19-cu. yd. heaped, rubber-tired four-wheel scraper to its line of pull-type scrapers. The unit is cable-controlled and features positive forced ejection. It provides a 9-ft. 8-in. wide cut with its carbon steel offset type cutting edge. Overall length of the Model 315 is 33 ft. 5 in. and the width is 11 ft. 6 $\frac{3}{4}$ in. The overall height is 8 ft. 8 in. with blade on ground and 9 ft. 2 in. when bowl is raised. Rear bowl ground clearance is 20 $\frac{1}{2}$ in. and front axle clearance is 29 in. Shipping weight is 25,850 lb.

Large bituminous plant designed for portability

A 100- to 175-ton-per-hr. central hot mix plant has been developed by Pioneer Engineering Works, Inc., Minneapolis, Minn. The new plant, called the Model 102, has but two main units each mounted on a single chassis, a



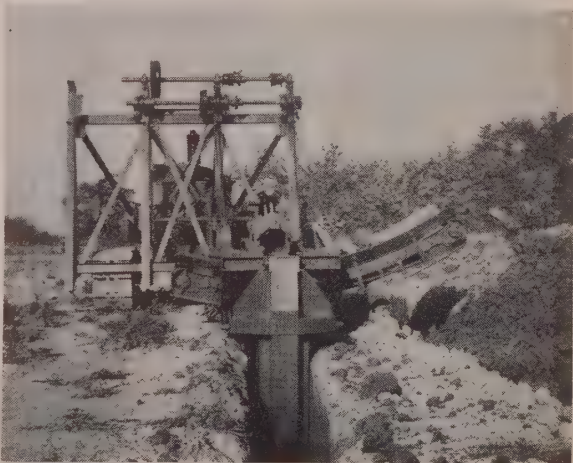
combination drier-dust collector and a combination gradation-mixer. To increase portability the auxiliary units are all designed for ready loading and towing in line behind the two main units. These are the feeder and con-

veyor for delivering aggregates to the drier, the bucket elevator for transferring material from the drier to the gradation-mixer, the truck-mounted burner-combustion chamber and the diesel-generator set.

Although primarily a portable plant, the Model 102 can be readily adapted to permanent operations. The plant can be furnished with diesel or diesel-electric power, or it can be completely electrified. Detailed specifications are available.

Ditcher for roadside drainage

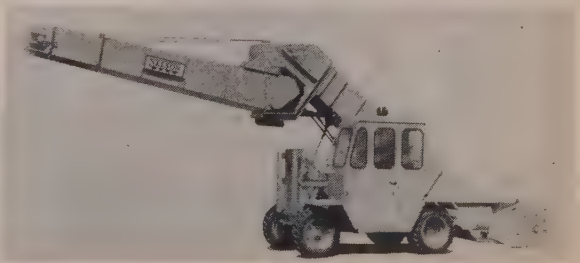
Recently developed by Gar Wood Industries, Inc., of Wayne, Mich., is the Model 306 ditcher for digging trenches for roadside drainage where narrow shoulders and sloping banks prevent standard ditchers from operat-



ing. The Model 306 has an offset digging wheel frame which allows the digging wheel to be positioned to the left or right of center to dig trench in line with the outside edge of the machine's crawlers. It can be used for trenches up to 5 ft. 6 in. deep and 24 in. wide.

Snow loader has conveyor discharge

A new high capacity snow loader with 16-ft. swivel conveyor discharge has been announced by the N. P. Nelson Iron Works, Inc., Clifton, N. J. The model is called the S-11 snow loader. The length of the conveyor per-

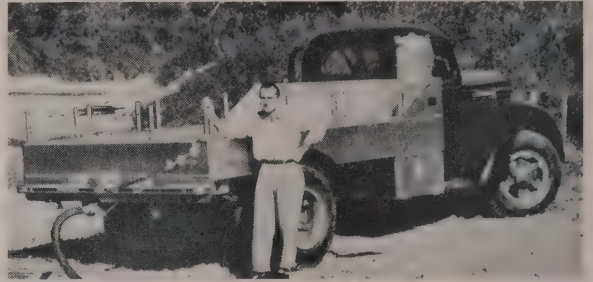


mits even the largest trucks to be loaded either over the cab or alongside. There is no need for trucks to maneuver, turn, or back up under the loader. It has a capacity of up to 20 cu. yd. per min.



Water truck can carry large bulk loads

A low-bed water truck that is capable of carrying large bulk loads has been announced by **Davey Compressor Co.** Known as Model FT-50 flat-top water truck, it is offered as a companion unit for Davey air drills and mud drills. The truck employs a large capacity flat water tank the



top of which serves as the bed of the truck. The tank is constructed of heavy gauge steel with the floor section covered with safety-plate. Sixteen removable metal stakes are located along the edges of the top side of the tank to prevent loss of cargo. The truck utilizes suction from the manifold to draw water into the tank. The tank interior is divided by baffles which prevent rapid shifting of fluid weight. Standard equipment includes water tank, 2-in. suction horse, 16 removable bed-stakes, tool box on each side, winch, vacuum-lift, and 3-gal. drinking water can. Tanks are available in 650- and 1,000-gal. capacities. Address: Kent, Ohio.

Detachable ditcher for Caterpillar tractor

Model CW-4, a detachable ditcher for attachment to Caterpillar D4 tractors, is now in full production at Unimatic Corp. The CW-4 which can be detached within



30 min. will dig to a maximum depth of 5 ft. 6 in. with the width of cut ranging from 15 to 24 in. in increments of 1 in. It is an all hydraulic unit with the controls within the normal reach of the seated operator. It will move forward at any speed from 0 to 26 ft. per minute. The conveyor is controlled independently of the digging wheel. With a straight bulldozer the CW-4 ditcher is 22 ft. 8 in. long, 8 ft. 3 in. wide, and 9 ft. 11 in. high. The weight of the ditcher ranges from 6,660 to 6,930 lb. Literature is available upon writing Box 1166, Tulsa, Okla.

Vibrator head has interchangeable tips

A new high speed vibrator head with interchangeable tips has been developed by **Stow Manufacturing Co.** Rubber or steel tips can be screwed or unscrewed easily with a wrench. A nylon plug holds the tips securely in place in spite of continuous vibration. The new head is 10 in. long and is available in diameters of 1½ in., 2 in., and 2½ in. It can be operated as fast as 9,000 rpm. Address: 443 State St., Binghamton, N. Y.

TAKING A SEWER *Out to Sea*

This project, to deposit sewage in the Pacific Ocean a mile out from shore, required driving both timber and steel H-beam piles.

The contractor, Guy F. Atkinson, used a McKiernan-Terry No. 11-B-3 Double-Acting Pile Hammer for the job, operating the hammer from the gradually lengthening work trestle, and this powerful hammer fully justified its selection.

No matter what your own pile-driving operations may be, you can safely rely on McKiernan-Terry Hammers for power and dependability. Write for bulletins describing the complete line of double-acting and single-acting hammers and double-acting extractors.

McKIERNAN-TERRY CORPORATION Manufacturing Engineers

Also builders of Coal and Ore Unloaders and Bridges, Grab Buckets, and Special Machinery

16 Park Row, New York 38, N. Y.

Seattle and Spokane: Star Machinery Co.; Portland, Ore.: Cramer Machinery Co.; San Francisco: Edward R. Bacon & Co.; Los Angeles: Garlinghouse Brothers; Salt Lake City: C. H. Jones Equipment Co.; Denver: Mine & Smelter Supply Co.; Albuquerque, N. Mex.: R. L. Harrison & Co.



McKiernan-Terry
No. 11-B-3
Double-Acting
Pile Hammer

McKIERNAN TERRY

PILE HAMMERS

See manufacturer's listing page 36H, Yellow Section

New Color Movie

MEN, STEEL AND EARTHQUAKES

What causes earthquakes? How are seismic forces measured? Why do some buildings collapse during an earthquake while others remain undamaged? These and many other questions about earthquakes are answered in this interesting motion picture which dramatizes one of nature's most terrifying forces.

Now available to professional, educational and civic groups, this 16-mm color film runs for 28 minutes. Accompanied by factual narration, the causes and effects of earth movements are depicted graphically by animated scenes. In tracing the important steps in man's efforts to prevent the destruction of buildings and other structures by earthquakes, the color photography shows how sound structural design and the use of steel have proved highly effective in resisting strong seismic forces.

Of interest both to technical and general audiences, the film explains the various kinds of forces which buildings must withstand when earthquakes occur. Steel provides the great strength required by architects and designers to build structures that can resist earthquakes. Its role as a fabricated steel framework, and as reinforcing for concrete and other materials, is fully described.

The film takes a look behind the scenes at some of the earthquake research activities being carried on by leading universities, technical societies, and government bureaus. Such groups have contributed generously to the factual background of this Bethlehem Pacific production.

FREE ON REQUEST

The film is available without cost, except for return postage. We suggest that requests be made at least three weeks in advance of the date of showing in order to allow sufficient time for scheduling and shipment. Write to Publications Department, Bethlehem Pacific Coast Steel Corporation, 20th & Illinois Sts., San Francisco 19, Calif.



Sales Offices: Los Angeles,
San Francisco, Portland,
Seattle, Spokane



*These buildings withstood
strong earthquakes . . .*



. . . but this one didn't



Earthquake research
helps to improve
building designs.

BETHLEHEM PACIFIC

See manufacturer's listing page 8H, Yellow Section

Self-propelled wagon mount for Gradall

A mobile self-propelled wagon mount has been added to the Gradall line as an item which will be built to order at the Gradall Division, 5701 Carnegie Ave., Cleveland 3,



Ohio. The carrier has a short wheel base of 108 in. and a turning radius of 21 ft. 7 in. to the right and 19 ft. 10 in. to the left. Operating controls are mounted on a panel in the cab. The unit has air brakes and power steering. A tow bar is supplied with each wagon for use in moving the machine over long distances. It has a standard width of 8 ft. The unit complete with the Gradall weighs 30,000 lb.

Wagon drill announced for Gardner-Denver

A wagon drill with a hammer diameter of 4½ in. has been announced by Gardner-Denver Co. of Quincy, Ill. It was designed to develop greater drilling speed and power

for service on highways, railways, dams, and other large construction projects as well as for quarries and open pit mines. The unit is delivered with sectional drill rods and a drill wagon with hydraulic power lifts for positioning the mast. The unit is designed for handling 10- to 12-ft. steel changes.

New Badger digger has increased power

A 20% increase in power and a boom and dipper stick of formed plate are features of the new digger Model 200 DTM-55 manufactured by the Badger Machine Co. of Winona, Minn. The unit can be mounted on any 1½-ton



or larger truck. It may be powered by an air-cooled or water-cooled unit or from the power take-off of the truck. The hydraulic outriggers on the new model afford unusually good stability for the unit, according to the manufacturer. Digging depth is about 11½ ft.


*When it's a question
of wholesalers...*

The answer's in the YELLOW PAGES!



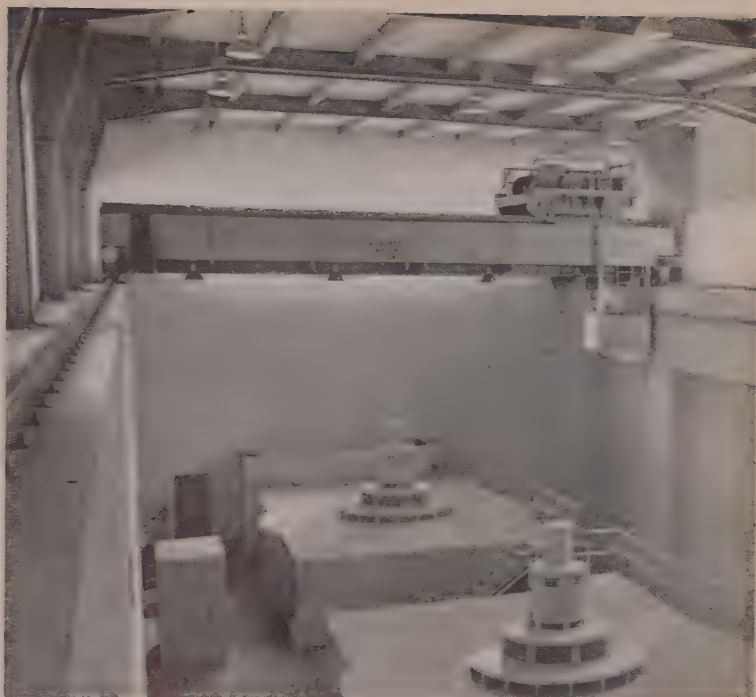
There's no argument about it. The "Classified" directory is the place to look for wholesalers, dealers, distributors...just about any local business or service. In addition to names, addresses and telephone numbers, you'll find other helpful information on many dealers...brands they carry, delivery areas and hours of business. That's why most people use the Yellow Pages as a guide to local folks who serve or sell.

You'll find it fast in the YELLOW PAGES!

 **Pacific Telephone**



*MOFFETT powerhouse crane,
designed and installed at Tenkiller Dam,
Oklahoma, for Corps of Engineers,
U.S. Army. Main hoist, 75 tons.
Auxiliary hoist, 15 tons.
Span, 48½ feet.
Lift, 49½ feet.*



How to avoid headaches on overhead crane jobs—

Consult **MOFFETT**

CAPACITIES: 1/4 to 650 TONS

MOFFETT

"plant individualized"

cranes can be designed to solve almost any overhead materials handling problem.

Types include:

- continuous duty
- heavy industrial duty
- intermittent duty
 - powerhouse
 - standby
 - steel mill
 - gantry
- special purpose

Remember, whether it's a crane or a part, MOFFETT can build it for you. Call us NOW for consultation and quotations. No obligation.

When you contract with MOFFETT for an overhead crane, you can be sure the design will be "plant individualized" for your job...will be delivered when you're ready for it...and will be match marked so you can install it quickly and without confusion.

We're old hands at working with contractors, public utilities and governmental bodies...know and understand the importance of coordinating deliveries with your erection schedules. The engineers designing your crane work directly with you, so you avoid red tape and foul-ups. Result: you get a crane that fits into place exactly...contractors tell us MOFFETT cranes are the easiest to erect. And maintenance records show the user can count on long, trouble-free service.



Traveling Cranes • Hoists

579 Cleveland Ave., Albany, Calif. • LAndscape 5-4916
3930 N. Mission Rd., Los Angeles 31 • CApiital 2-7161
15 Park Row, New York 38 • WOrth 2-7048

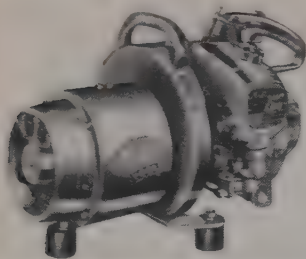
10,000 Tons of Proof... in the last three years alone, we have built cranes with an aggregate capacity of 10,000 tons for such leaders as:

Atomic Energy Commission
Bechtel Corporation
Bureau of Reclamation
City of Los Angeles
East Bay Municipal Utility District
Gibbs & Cox, Inc.
Kaiser Engineers
Peter Kiewit Sons' Co.
Ferro Construction Co.
H. K. Ferguson Co.

Pacific Gas & Electric Co.
Swinerton & Walberg Co.
Robt. Simmons Construction Co.
Stone & Webster
Tennessee Valley Authority
U. S. Army, Corps of Engineers
U. S. Navy
U. S. Maritime Commission
Texas Construction Co.
Foley Bros. Construction Co.

75-pound portable generator

A 1,000-watt AC power plant which weighs 75 lb. is now available from **Mall Tool Co.**, 7740 South Chicago Ave., Chicago 19, Illinois. The unit



supplies AC current to electric tools, lights, house lights, radios, heating units, and water pumps. Complete price of the generator including the engine and auxiliary gas tank is \$825, f.o.b. Chicago. The three items can be purchased separately if desired.

Bucket design changed

A change in design of the standard bucket for the HD-5-G crawler tractor has been made by the **Allis-Chalmers Mfg. Co.**, Tractor Division, Milwaukee, Wisconsin. Rated capacity is increased to $1\frac{1}{4}$ cu. yd. from the former 1 cu. yd. The new design also reduces spillage by bringing the bucket's back sheet further forward and extending the spill guard. Longer life for the bucket is provided by raising the floor approximately 7 deg. at the rear to further reduce wear to the bottom sheet. Easier loading results from the new curvature of the bucket and through elimination of the angle formerly used on the inside of the back sheet at the base of the spill guard.

Highway Model J spreader

Echelon spreading of salt, cinders, sand, and calcium chloride for ice control work, can be done with a new highway spreader introduced by the **Highway Equipment Co., Inc.**, 616 D Ave., N.W. Cedar Rapids, Iowa. The



spreader offers an option of echelon or blanket spreading and is equipped to handle sand, chips, and pea gravel for soil control work. The spreader is attached to the truck frame and can

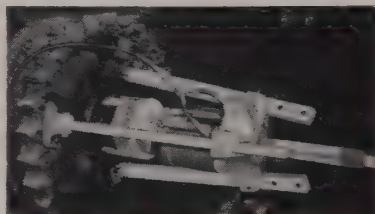
be used with any width dump body. Power is provided by two traction tires which put the drive in motion when they come in contact with the inside truck dual as dump body is raised. This arrangement does not interfere with installation of tire chains on outside duals. Literature is available.

Electric nut runner

A new rotary electric hand tool has been developed by **Ingersoll-Rand**, 11 Broadway, New York, for nut-running. It is claimed to have sufficient power to handle all but the largest nuts and bolts on cars and trucks. The tool has a $\frac{1}{2}$ -in. drive and weighs 6 $\frac{1}{4}$ lb. With standard attachments, this tool can be converted to drill, drive screws, ream, tap, do wire brushing, and hole sawing.

100-ton sprocket puller

Pulling and installing drive sprockets on crawler type tractors can now be accomplished with savings in time and labor with a new 100-ton



sprocket puller developed by **Owatonna Tool Co.**, 389 No. Cedar St., Owatonna, Minn. The puller is equipped with gripping lugs which grip harder as the pressure is increased. The tool can be used on International TD-24, all Allis-Chalmers and all Caterpillar crawler tractors. Further information is available.

Vibrator for concrete spreaders

Maginniss Power Tool Co., Mansfield, Ohio, is manufacturing a new unit designed to provide efficient side form vibration. It can provide vibration at any depth, angle, or distance from the side forms. A lever actuated rotating mechanism enables the spreader operator to move the vibrator heads into or out of the concrete slab in one motion.

Engine water filter

A new engine water filter as an optional accessory on Series 51, 71, and 6-110 diesel engines has been announced by **Detroit Diesel Engine Division** of General Motors Corp., 13400 W. Outer Drive, Detroit 28, Michigan. Through the use of mechanical filtration, inhibitors, and resistor plates the filter removes impurities from the cooling system, softens the water, and controls alkalinity and rust formation. The unit

contains a replaceable filter element which can be renewed at regular intervals. In the event the element becomes clogged, water by-passes the filter. The filters are available in ranges from $3\frac{1}{2}$ to 5 in. in diameter and from 6 to $7\frac{1}{2}$ in. in height.

Idler for belt conveyors

A 2-bearing, cable-suspended idler permits easy assembly, moving and storage of conveyor sections, according to **Joy Manufacturing Co.**, Henry W. Oliver Bldg., Pittsburgh 22, Pa. The idler consists of resilient, pres-



sure-molded neoprene discs. The discs are all of the same size and revolve at the same speed. In continuous contact with the loaded belt, they exert a slight gripping action that holds slippage to a minimum and tends to keep the belt aligned. It permits conveyor heights from 13 to $15\frac{3}{4}$ in. and is available for 24-, 30-, and 36-in. belt widths. Further details are offered in Bulletin LD-103.

Portable rotary drill

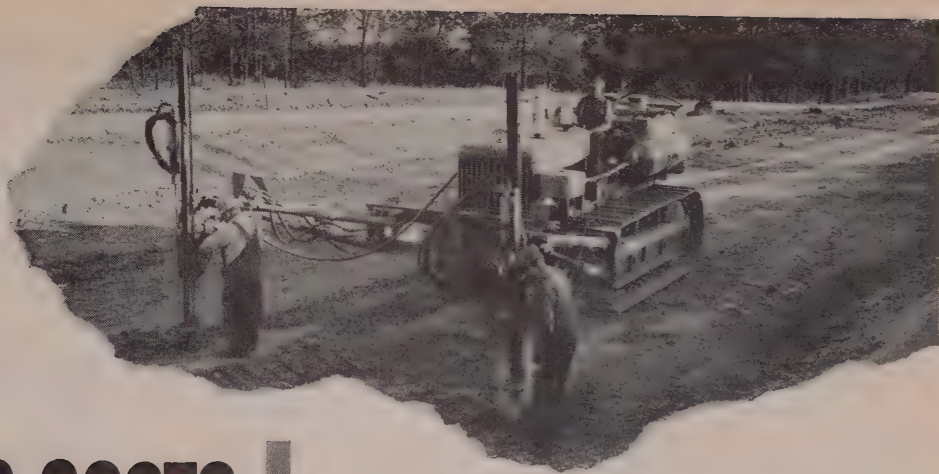
A portable rotary hammer which is useful for drilling holes up to 4 ft. is being manufactured by **Demo Tool Corp.**, 8735 Melrose Ave., Los Angeles, Calif. It weighs $9\frac{1}{2}$ lb. and can be used for overhead or ceiling work. The tool is powered by a 115-volt, 5-amp. motor. No transformer or rectifier is required.

High lift fork tractor

A new loading machine, the Econmobile, is being manufactured by **American Road Equipment Co.**, Omaha, Nebraska. Equipped with a pallet fork, the machine can hoist up to 2,500 lb. in excess of 17 ft. in the air. Equipped with an auxiliary tower, the unit will serve heights up to 22 ft. The unit can be used to pour concrete walls over an open excavation without the need for scaffolding and concrete wheeling operations.

75-hp. motor grader

A 75-hp. motor grader is now available from **W. A. Riddell Corp.**, Bucyrus, Ohio. A rotating saddle permits elevation of the blade to 90 deg. on either side and passage of the blade from one side to the other without any mechanical adjustment of linkages. Every blade position is reached by hydraulic controls from the cab.



DRILLING COSTS CUT IN HALF with this JOY TRAC-DRILL

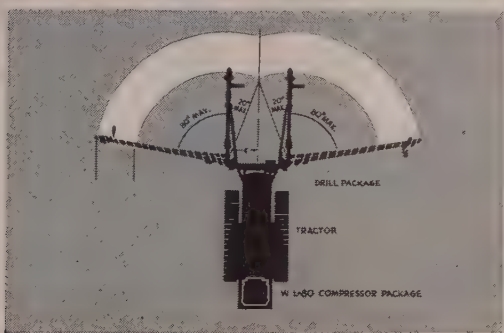
56%, TO BE EXACT was this contractor's reduction in drilling costs on his Missouri highway job, with the Joy Trac-Drill.

"STAY AHEAD OF THE SHOVELS," was the order. But *four* wagon drills driven by *two* compressors couldn't do it. Even with overtime . . . a long ten-hour day . . . the seven-man crew (four drillers, two helpers, one compressor operator) couldn't meet production.

A JOY TRAC-DRILL PACKAGE was mounted on a used tractor along with a Joy WL-80 Compressor Package. (Joy furnished complete instructions.) The rig worked like a charm. It easily led the shovels . . . and with only *four* men—two drillers, one helper and a tractor operator. The unit was completely self-contained and maneuverable. The B-I-G savings show up in the contractor's weekly cost figures:

| | 4 WAGON DRILLS | JOY TRAC-DRILL |
|--------------------------|----------------|----------------|
| Labor..... | \$ 810 | \$500 |
| Depreciation (3-yr.).... | 212 | 145 |
| Fuel..... | 140 | 86 |
| <i>Total.....</i> | <i>\$1160</i> | <i>\$730</i> |
| Performance (week) | 7200 ft. | 10,200 ft. |
| Cost—foot of hole..... | <u>16¢</u> | <u>7¢</u> |

THE TRAC-DRILL PACKAGE INCLUDES twin drills and feeds mounted on Joy Hydro Drill Jibs (hydraulically-actuated booms with power lift and power swing). Because the jibs are extensible, the Trac-Drill can reach out to put many holes in a straight line, if necessary, from one tractor setup. A used tractor, past its prime can thus be converted to an ace drilling machine. The whole story is in our Bulletin M-214, free for the asking. Just write Joy Manufacturing Company, Oliver Building, Pittsburgh 22, Pa. In Canada: Joy Manufacturing Company (Canada) Limited, Galt, Ontario



Each Hydro Drill Jib on the Joy TRAC-DRILL operates in a 100° arc making it possible with extensible 10' jibs to drill to a 42' width.

Consult a Joy Engineer

for AIR COMPRESSORS • ROCK DRILLS • WAGON DRILLS
CORE DRILLS • BLAST HOLE DRILLS • PORTABLE HOISTS • FANS
BLOWERS • TUNNEL, QUARRY, MINE EQUIPMENT



JOY

W&O C5469

CONSTRUCTION EQUIPMENT MANUFACTURERS
FOR OVER HALF A CENTURY

See manufacturer's listing page 31H, Yellow Section

Marion develops 60-ton lifting crane

A 60-ton lifting crane is now undergoing testing at the **Marion Power Shovel Co.** at Marion, Ohio. Designed for heavy duty versatility, the new machine can be used as a shovel, dragline, clamshell, crane or pull shovel.

Pocket and tooth for trencher buckets

A pocket and tooth for trencher buckets has been announced by **Jetco, Inc.**, 1100 Westminister Ave., Alhambra, Calif. The pocket is one



piece, drop-forged, 1040 high carbon steel. The new design provides a smooth radius in the pocket opening which permits a positive taper fit with the tooth in addition to the quick-change feature. The pocket

may be welded on any type bucket. The new rock point, which has been tested under actual rock conditions, is drop-forged from 4140 steel. The serrated face of the point permits easier digging plus the added features of minimum leverage and self-sharpening point.

Utility ditcher

A new pipeline and utility ditcher, wheel-type Model 315, is being produced by **Gar Wood Industries, Inc.**, Wayne, Michigan. The new unit is designed to dig trenches for pipelines, gas and water mains, sewers, cable conduits, and other jobs. It can be used for a trench 6 ft. deep and 40 in. wide and can move forward at 20.5 ft. per min.

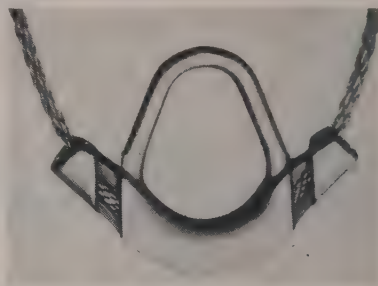
Air-powered trench digger

A new medium-weight trench digger, designated Model DD-130, has been announced by **Davey Compressor Co.**, Kent, Ohio. The manufacturer states that the new air tool is especially adapted to digging ditches for water and sewer systems; underground conduit trenches and oil pipeline trenches. It can be used for cutting through hardpan, shale, and concrete. The digger features a pressure lubricator, a replaceable cylinder bushing, and a replaceable throttle valve bushing which stops air

leaks and can be replaced without disassembling the handle. The DD-130 has a net weight of 36 lb. Additional information is available in form E-536.

Sling bridle

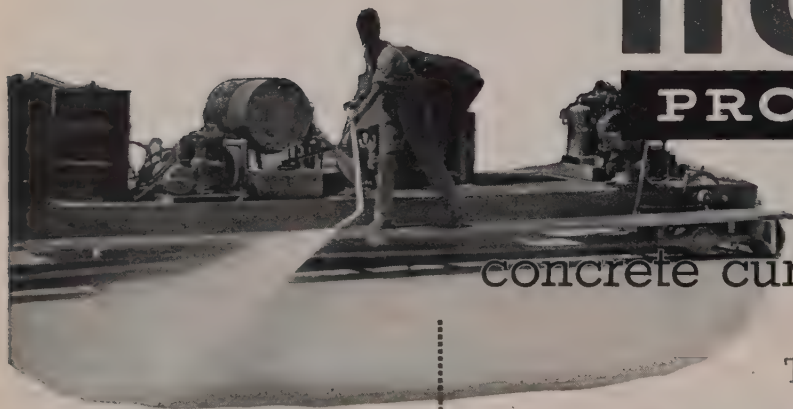
A new sling bridle which converts a conventional sling into a 2-leg bridle sling, eliminating the necessity of a pear link with two eye splices is



now being manufactured by **Newman Mfg. and Sales Co.**, P. O. Box 5939, Kansas City 11, Missouri. The tapered groove firmly grips the sling so that there can be no load slippage even when the load is unbalanced. The legs of the bridle sling are easily adjusted or equalized for the different loads. Thus one sling can do several material handling jobs.

"Spray it and forget it"

hunt
PROCESS



concrete curing compounds

CLEAR — BLACK
TILT-UP and PIGMENTED

HUNT PROCESS CO., INC.

FACTORY AND MAIN OFFICE

7012 STANFORD AVENUE

LOS ANGELES 1, CALIFORNIA

NEW Illustrated brochure
available upon request

THE ORIGINAL MEMBRANE CURE SINCE 1926

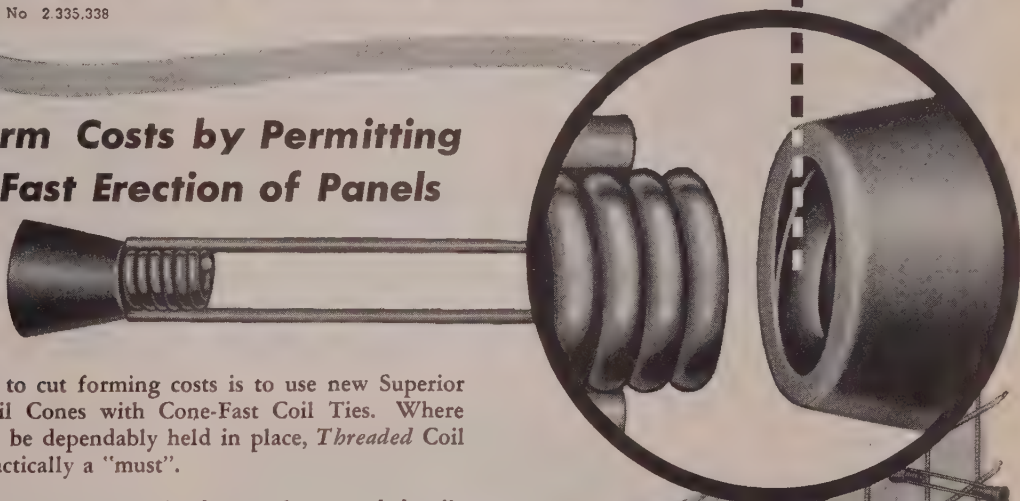
NEW!

THREADED CONES

for SUPERIOR CONE-FAST COIL TIES

Pat No 2,335,338

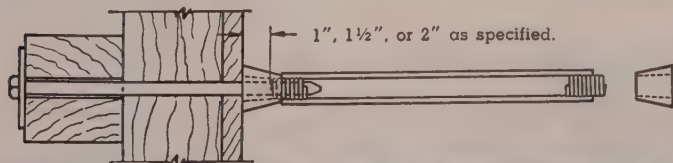
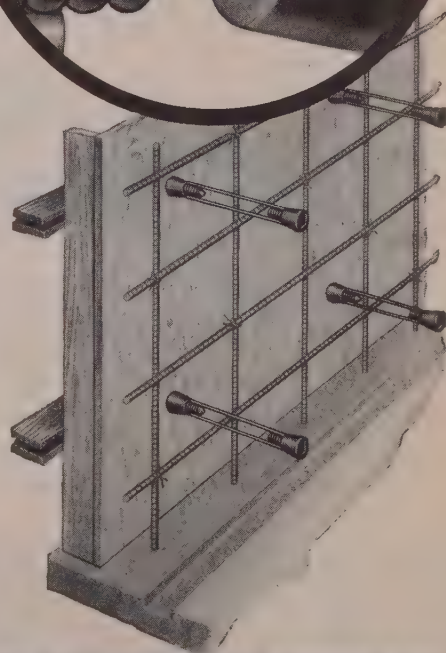
**Cuts Form Costs by Permitting
Extra Fast Erection of Panels**



A direct way to cut forming costs is to use new Superior *Threaded* Coil Cones with Cone-Fast Coil Ties. Where cones have to be dependably held in place, *Threaded* Coil Cones are practically a "must".

Previously, Coil Cones were held onto the extended coils by friction alone. Now, a couple of threads in the cone fix Coil Cones securely to the Coil Ties. Here's another advantage . . . units can be bench assembled with the assurance that they will arrive at the installation point intact! *Threaded* Coil Cones cannot be knocked off the Coil Ties when the opposing form is being applied. When unscrewed with a cone wrench, the threaded Coil Cones automatically back themselves out of the wall.

Cone-Fast Coil Ties with threaded Coil Cones are supplied for $\frac{1}{2}$ " to $1\frac{1}{4}$ " Coil Bolts, with safe load capacities from 5,000 lbs. to 36,000 lbs. Working parts (cones and bolts) are returnable for credit.



SUPERIOR CONCRETE ACCESSORIES, INC.

4110 Wrightwood Avenue, Chicago 39, Illinois

New York Office

1775 Broadway, New York 19, N. Y.

Pacific Coast Plant

2100 Williams St., San Leandro, Calif.

See manufacturer's listing page 47H, Yellow Section

Telescopic hoists

Three new telescopic hoists in weight-saving bodies are now being offered by **The Heil Co.**, Milwaukee 1, Wis., to make greater legal payloads possible in the 21- to 30-ton



capacity class. The hoist may be mounted inside or outside of the chassis frame rails to fit any make of tandem truck or semi-trailer. A loose parts kit supplied with the hoist is a universal type for mounting the hoist inside or outside and for a forward or backward push. According to the manufacturer the hoists have

the lowest mounting height of any now available. The newly designed bodies accommodate the forward lifting point of the telescopic hoists. Additional information on this equipment is available.

Hydraulic fork lift attachment

The development of a 1,500-lb. capacity hydraulic fork lift attachment for the model R-15 Moto-Bug has been announced by the **Kwik-Mix Co.**, Milwaukee 16, Wis. The unit has a 15-cu. ft. capacity, and will lift a 3½-ton load to a height of 7 ft. in 14 sec. Prices and specifications are available on request.

Ford announces new line

Twenty-four series including 190 models of 1955 Ford trucks ranging from 30-ton tandem axle down to pickups have been announced by **Ford Division of Ford Motor Co.**, P. O. Box 638, Dearborn, Michigan. Ford's five truck engines, built exclusively for the truck lines, include six and V-8 engines. Three engines have increased horsepower and compression ratios. GVW ratings run from 4,000 to 40,000 lb. and GCW ratings to 60,000 lb. For 1955 Ford has improved truck brake features. Vacuum-boosted power brakes now are offered on all models. Full automatic transmission is available at extra cost on some of the series. Over-

drive and regular transmissions also are available. To increase endurance and safety, 9,000-lb. capacity front axles now are standard on the F- and C-900 series. For heavier forward loading, a new 11,000-lb. capacity front axle will be made available at extra cost for Series T-800 tandem axle trucks. Ford's 1955 truck engines range in horsepower from 118 to 170 at 3,900 rpm.

New Stud welding gun

A new and more versatile stud welding gun is now available from **Nelson Stud Welding Division**, Gregory Industries, Inc., Lorain, Ohio. The new design accommodates



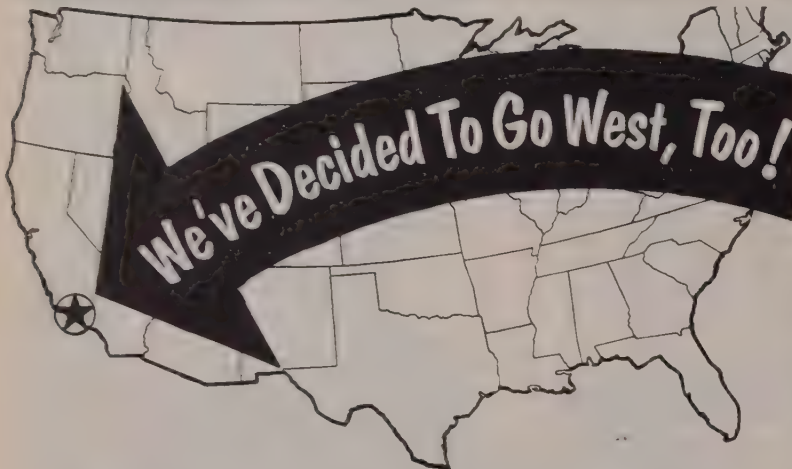
a greater range of stud length without changing adapters or other accessories. Arc length can be adjusted without disassembly. Reduction in the number of electrical connections from three to one has made for increased operating efficiency and simplified maintenance. Literature is available.

New Triplex tamper

A new lighter-weight Triplex tamper, featuring an entirely new design has been announced by **Thor Power Tool Co.**, Aurora, Ill. The new model is equipped with an air swivel connection attached directly to the air manifold, replacing the former air feed through one handle, to provide even distribution of air to each tamper and cooler handling. Air is distributed through a removable filter that provides complete screening of dirt and other elements. The filter may be easily removed for cleaning in the field if necessary.

Welded alloy chain

A new line of high strength, one to two inch, welded alloy chain is now being produced by **McKay Co.**, McKay Bldg., Pittsburgh 22, Pa. A single branch of the 2-in. line has a breaking strength of over one half million pounds. The chain needs no periodic heat treatment since the alloy steel does not work harden in use. Literature is available.



Now, we can serve you faster than ever with our new warehouse in Long Beach, California.

Immediate shipments are made on our complete line of centrifugal pumps for construction, industry and irrigation.

Quick delivery and lower costs make **CARVER** your No. 1 supplier. Ask for full information.

CARVER PUMP CO.

1416 Hershey Ave.
Muscatine Iowa

Western Region Warehouse

1530 W. 12th St., Long Beach 13, Calif.



CARVER PUMPS

the quality name in pumps

See manufacturer's listing page 12H, Yellow Section

See listing page 31H, Yellow Section →

10 LEADS TO BETTER, and BIGGER PROFITS! FASTER RESULTS



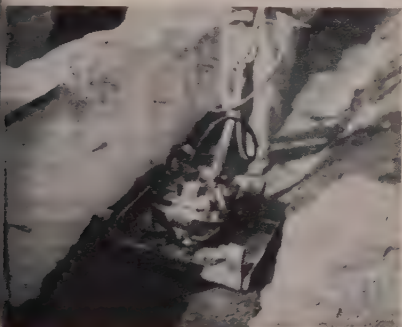
MACADAM DENSIFICATION. Usually just one pass of the Jackson Multiple Compactor is required to key 12" of rock to final density — one pass to completely fill voids with fines.



PAVEMENT WIDENING. The Multiple Compactor can be quickly converted to provide in ONE PASS 100% of required density in granular soil sub-bases and rock courses in any widening project.



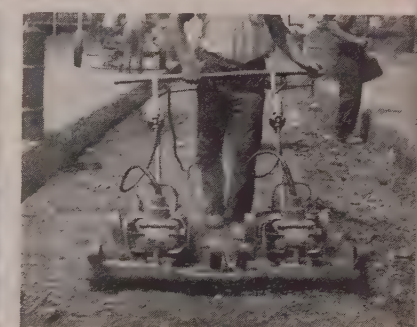
GRANULAR SOIL FILLS. The Multiple Compactor quickly achieves specified density, gets into places bigger, more expensive equipment cannot reach. Individual units can be detached, operated as manually guided compactors.



SOIL COMPACTION. Self-propelling, the JACKSON COMPACTOR, with 12" to 26" interchangeable bases, achieves specified density of granular soils in 8" to 10" depths at 2000 sq. ft. per hr. Perfect for bridge and pipe line fills, concrete floor sub-bases, etc.



BLACKTOP WIDENING & PATCHING. The same machine operated from power plant on auto-trailer with pickup for Compactor is most efficient means of blacktop pavement patching, paving walks, drives, etc. Will compact up to 2000 sq. ft. per hr. close to maximum density.



TWIN-UNITS — ONE OPERATOR. With a two-unit, side-by-side or tandem hookup of JACKSON COMPACTORS, one man can readily do the work of two, since the compactors are self-propelling and he has only to guide them.



CONCRETE VIBRATION FOR HIGHWAY AND AIRPORT PAVING

INTERNAL TYPE: super-powered, gives full width internal vibration through full depth of very thick slabs. Saves time, cement; provides greater density and compressive strength. Attaches to finisher or spreader.



SURFACE TYPE: does perfect job of vibrating all mixes in depths used on highway projects. The owner of a JACKSON Paving Tube can quickly switch from internal to external vibration, or vice versa, at minimum expense.



MUNICIPAL PAVING: This vibratory screed strikes off to all crowns, undercuts at curb or sideform, works right up to and around obstructions, is rolled back for second passes on 4 rollers. Most productive and convenient screed made.

FOR SALE OR RENT
AT
YOUR JACKSON DISTRIBUTOR

**JACKSON
VIBRATORS, INC.**

LUDINGTON, MICHIGAN



GENERAL CONSTRUCTION

(Left); 6 H.P. engine-driven, flexible shaft vibrator. Excellent for both thin and thick sections. (Right); 2 1/2 H.P. electric vibrator (for light-socket operation). Handy as a pocket in a shirt, powerful enough to handle all general construction concrete vibration with shafts up to 28'.

TOUGH GOING?



WITH **Hensley**

You'll find the going lots easier when Hensley lightweight, heavy-duty Rippers and special analysis steel Cutting Edges do the job for you . . . in dirt, rock, permafrost, shale or hard-packed snow. Hensley parts are precision made to fit all kinds of earth-moving equipment. Durability, dependability and greater job economy are built-in to every item in the Hensley line . . . whether it's dozer or scraper rippers, cutting edges, scarifier points, bottom track rollers or allied parts.

ARIZONA:

Western Machinery Co., Phoenix

CALIFORNIA:

Factory: 816 - 98th Avenue, Oakland
 Bay Cities Equipment, Sacramento
 Chico Auto Parts, Chico
 Emerson-Braden, Colusa
 Farmers Hardware & Equipment, San Luis Obispo
 Holz Co., Ukiah
 Hudson Equipment, San Diego
 Hust Bros., Marysville
 Lowry Equipment Co., Redding
 McGaraghan Supply Co., Eureka
 Oroville Auto Parts, Oroville
 Stockton Iron Works, Stockton
 Westside Tractor, Willows

COLORADO:

S & M Supply Co., Grand Junction
 Joe Smith Machinery, Denver
 Johnson-Tudor Co., Denver

IDAHO:

Engineering Sales Service, Boise

MONTANA:

Treasure State Equipment, Kalispell & Missoula
 Westside Machinery, Billings

NEVADA:

Elko Blacksmith Shop, Elko
 Pioneer Equipment, Reno

NEW MEXICO:

Lively Equipment Co., Albuquerque

OREGON:

Cal.-Ore. Machinery, Medford
 Western Equipment Co., Eugene and Portland

TEXAS:

Deal's Machine Shop, Lubbock
 Hi-Way Machinery, Dallas and San Antonio
 Lively Equipment Co., El Paso

UTAH:

J. T. Holland Co., Salt Lake City

WASHINGTON:

Western Machinery Co., Spokane
 Western Tractor & Equipment, Seattle, Tacoma, Chehalis, Everett

WISCONSIN:

Bark River Culvert & Equipment, Milwaukee,
 Madison, Eau Claire, Green Bay

ALASKA:

Western Tractor & Equipment, Anchorage and Fairbanks



See the complete Hensley line at your nearby Hensley dealer!

Hensley

EQUIPMENT COMPANY

805 PERALTA AVENUE • SAN LEANDRO, CALIFORNIA

See listing page 27H, Yellow Section

Vibrating feeder

Barber-Greene Co., 400 No. Highland Ave., Aurora, Illinois, is now manufacturing a vibrating feeder. It is made in 20- and 26-in. widths for feeding 24- and 30-in. belts. Lumps up to 12 in. in size can be handled



when mixed with fines, or up to 8 in. when the lumps are uniform size. Average capacity is 200 tons per hour for the 20-in. unit and 300 tons per hour for the 26-in. unit. The capacity can be regulated by changing the weights on the eccentric flywheels, by altering the slope of the feeder, or by changing the amount of weight on the control gate. Detailed information and complete specifications are available.

New Dodge 145-hp., V-8 truck engine

Dodge Division, Chrysler Corp., has announced a new 145-hp. V-8 truck engine for pick-ups, panels, and low-tonnage stakes. Piston displacement is 241.4 cu. in. Compression ratio is 7.5 to 1. Maximum gross torque of 215 lb.-ft. is developed at 2,400 rpm. Bore is 3 7/16 in. Stroke is 3 3/4 in. Address: 7900 Jos. Campau Ave., Detroit 31, Mich.

Tandem rollers

The Galion Iron Works & Manufacturing Co. has published an 8-page, full-color folder, Catalog No. 400, describing its Roll-O-Matic, tandem, variable weight rollers. It contains cut-away drawings of various vital parts of the drive and points out advantages of using the automatic drive. Also contains a full page of specifications and pictures of various accessories. Address: South Street, Galion, Ohio.

Rotary trowel has stationary guard ring

Stow Mfg. Co. of 56 Shear Street, Binghamton, New York, has marketed a rotary trowel. It has a stationary guard ring instead of the conventional rotating guard ring. This is

said to make the machine much safer and it allows the operator to work right up to walls and other obstructions. No extra handle is needed when lifting the machine, since it can be picked up at any point on the guard ring. The ring is 34 in. in diameter. The machine is powered by a 4-cycle, 2-hp. gasoline engine. The handle can be adjusted to the most convenient height. The blades are reversible and can be easily changed.

Hydraulic one-ton truck crane

A hydraulic truck crane which can be easily installed on commonly used types of trucks is now available from the Stanco Mfgs. & Sales, Inc., 9820 San Fernando Road, Pacoima, Los Angeles, Calif. The unit can be used for hoisting, unloading, and dumping. The lifting capacity is 2,200 lb. on 6-ft. boom and 1,125 lb. on 11 1/2-ft. boom. If power is shut off it stops without dropping. If it is overloaded it simply does not operate. Literature is available.

Reduced-weight power unit

Waukesha Motor Co., Waukesha, Wis., has announced that it now manufactures a 12-cylinder power unit available for use with propane-butane or natural gas fuel, and as a full diesel with normal aspiration or turbo-supercharged. The engine is rated in the neighborhood of 1,000 hp.

Portable primary plant has screen ahead of crusher

A portable primary plant, designed to by-pass material already down to size, is being made by Pioneer Engineering Works, Inc. The plant, called the 150 PRS, has a 3 x 10-ft. apron feeder, a 4 x 6-ft. two-deck vibrating screen, and a No. 2036 roller bearing

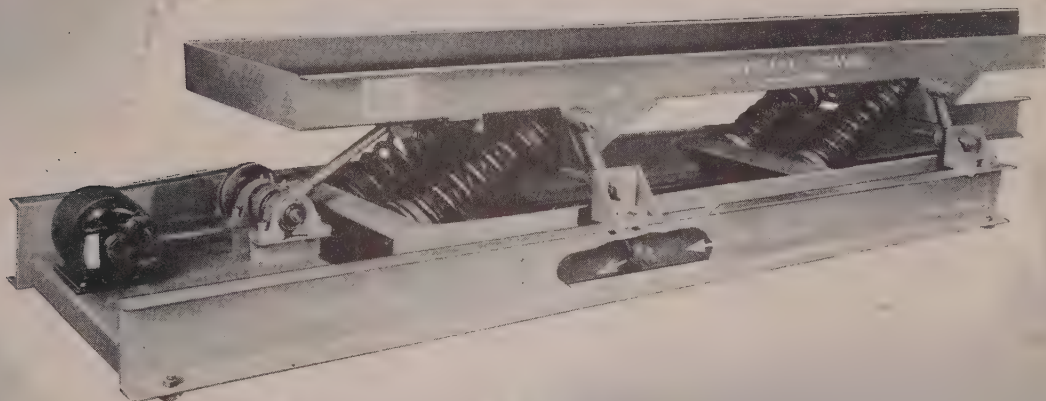


jaw crusher. It is mounted on a pneumatic-tired chassis, with proper weight distribution to meet state highway axle load limits.

The conveyor can be installed to deliver out either side of the plant. The feeder is controlled from the operator's platform. An extension permits widening the hopper to 11 1/2 ft. On or off plant power is optional, as is a front bolster for towing or a Fruehauf pin for truck tractor. Moving height is 12 ft. 7 in. Address: 1515 Central Ave., Minneapolis 13, Minn.

Natural Frequency

VIBRATING CONVEYORS



CAN CUT HANDLING COSTS OF

**Pulverized, Granular or Lump Materials . . . Castings, Boxes, Packages
Hot or Cold . . . Wet or Dry . . . Corrosive or Abrasive**

Natural Frequency Conveyors will move materials horizontally or up inclines of 10° at speeds up to 70 F.P.M. They can also be used to heat, cool, dewater, dry or screen a wide range of materials.

LOW POWER COSTS

Natural Frequency Conveyors utilize the regeneration of power from springs designed to vibrate at the natural frequency best suited for conveying—the new power required is reduced to a minimum. They are built in various widths and in 10 foot sections—one drive will operate several sections.

NO EXPENSIVE FOUNDATION

Due to elimination of vibration from base

frame, these conveyors can be mounted or suspended, without special foundations or bracing. Conveyor units can also be used in temporary locations without anchoring.

NO SPILLAGE

There is no violent agitation to cause spillage. The trough is free of obstruction to flow, or pockets to trap perishable materials for spoilage or infestation. All conveyor surfaces can be easily cleaned and sterilized. Furnished with standard open troughs, but enclosed or special troughs for scalping or dedusting can be furnished.

Get complete information on the Natural Frequency Vibrating Conveyor. Ask to have an S-A engineer call, or write for Bulletin No. 353 which contains specifications and general information on dimensions, etc.



STEPHENS-ADAMSON MFG. CO.

Factories at Aurora, Illinois • Los Angeles, California • Belleville, Ontario

2227 E. 37th Street
Los Angeles 58, Calif.

1007 E. Burnside St.
Portland 14, Ore.

151 Mission Street
San Francisco 5, Calif.

714 Joseph Vance Bldg.
Seattle 1, Wash.

See manufacturer's listing page 46H, Yellow Section

Two new concrete saws

Clipper Manufacturing Co. has announced a new line of gasoline-powered concrete saws with optional self-propulsion. Both saws are designed for continuous heavy duty, such as cutting construction joints in



new concrete and sawing the boundaries of sewer and utility trenches in old pavement. Ease of handling makes the same saws practical for other jobs, such as cutting boundaries of repair patches, maintenance work in plant floors and drives. Power for propelling the saws is supplied from the gasoline engine to a variable speed transmission. Speed of the saw is adjustable up to 12 ft. a minute. The blades are raised and lowered by a positive screw feed with cutting depth lock. Screw feed, depth

lock, depth gauge, and water valve are all located on the dashboard for convenience to the operator. Further information of these saws and others is available by addressing inquiries to 2840 Warwick, Kansas City 8, Mo.

Improved monitor for water streams

By using the force of the water stream for balance, the Intelli-giant, manufactured by Chiksan Co., is lighter and more maneuverable than previous water directors. Water under pressure can now be conveniently directed by one man. Simple controls have been worked out using independent power for movement in both traverse and vertical directions, giving a wide range of speeds and patterns. No set pressure has to be maintained for efficient operation.

Manufacturer is located at Brea, Calif.

Masonry sealer improved

Haynes Products Co. has reported an improvement in its formula #40, a colorless liquid masonry sealer. Tests on a concrete block treated with this formula and continuously wetted for 24 hr. showed an absorption of 3.10 lbs. of 16%. The solvent evaporates, leaving the pores filled with a plastic mass impervious to water and highly resistant to acids,

alkalies, weathering and oxidation. Information is available on the complete line by writing the manufacturer at 4007 Farnam St., Omaha 3, Neb.

Le Roi tractor-mounted compressor

Le Roi Co. has published a specification sheet showing the advantages of using the Le Roi 600 CTM tractor-mounted compressor by mounting it on any leading make of crawler tractor which has weak, worn tracks but still has a good engine. The sheet contains photographs of the compressor mounted on several makes of tractors, a specification table, and a chart showing tool capacity. Address: 1706 So. 68th St., Milwaukee, Wis.

Low heat Pozzolith

The Master Builders Co. has published a 4-page folder describing use of low heat Pozzolith in mass concrete for reducing total heat evolution. It lists the benefits of using this material in both plastic and hardened state, describes the types of Pozzoloth, and discusses design and use. A table compares the relative advantages of using low heat Pozzoloth mixes with the use of plain and air-entrained mixes. Address: Euclid & Thomas Aves., Cleveland 3, Ohio.



SPECIFICATIONS SHOULD REQUIRE CONSTRUCTION BONDS

Ask for . . .

**NATIONAL SURETY
CORPORATION**

4 Albany Street, New York

one of America's foremost
fidelity and surety companies

A MEMBER OF THE FIREMAN'S FUND INSURANCE GROUP



This symbol on your bond or policy guarantees satisfaction.

PACIFIC DEPARTMENT—315 Montgomery Street—San Francisco 4, California

UNI-FORM Concrete Forms

**3 SIMPLE ELEMENTS
FORM ANY CONCRETE
STRUCTURE**



UNI-FORM
TIE KEY —
Securely locks
Panels and Ties

UNI-FORM
TIE —
Made for all
wall sizes

UNI-FORM
PANEL —
2' 0" wide;
heights to 8' 0"

UNI-FORM Concrete Forms are prefabricated steel-framed, plywood faced panels . . . ready to use when they reach the job.

UNI-FORM Ties and Keys lock and spread Panels into an automatically accurate form. No measuring — no guesswork. Completely versatile . . . they form straight, battered, circular, irregular or curved walls at lowest all around cost.

*Rented . . . Sold . . .
Rented With Purchase Option*



HIGH SPEED CIRCULAR WALL FORMING

UNI-FORMS provide faster, simpler and easier circular wall forming . . . one side alignment and bracing . . . absolute control of concrete, and safer, cleaner working areas.

Write for the
UNI-FORM Catalog
and complete details



**UNIVERSAL
FORM CLAMP CO.**

1238 N Kostner Ave
Chicago 51, Illinois



Unique Prefab Form System Speeds Sewage Plant "Y" Wall Construction



MECHANIZED FORMING with new "Y" wall trusses and UNI-FORM Panels speeds construction, saves labor and material

Field reports on a new system for forming "Y" walls in aeration tanks and settling basins indicate very satisfactory operation and important labor and material saving advantages for the system.

Developed by the Universal Form Clamp Co., Chicago, the new system is said to completely eliminate the many problems and difficulties encountered by contractors in forming this special type of wall in sewage disposal plant construction.

Specially designed trusses, which can be made to handle any type, height, shape or wall thickness, are used in conjunction with standard UNI-FORM Concrete Forms to form the "Y" wall. Assembly of the truss and UNI-FORM Panels into a complete form, ready to receive concrete is a fast, mechanical operation. Positive internal spreading and accurate wall thicknesses are assured by the use of Universal Spiriloc Cone Nut Assemblies.

Features incorporated in the design and operation of the Universal "Y" wall form-

pieces or as a large unit. Both methods have been very successfully used on recent projects.

Because standard UNI-FORM panels are used to form a large percentage of the "Y" wall contact area, it is possible to strip all UNI-FORM panels within a very short time after the actual pouring of concrete, leaving the trusses in place to provide the necessary support for the required period of time.

In this way, faster forming cycles, using minimum UNI-FORM equipment are pos-



ASSEMBLED SECTION of "Y" wall truss
with UNI-FORM Panels



STRIPPED WALLS are clean and accurate. The stripping system eliminates the necessity of additional lumber or tying devices for the alignment and bracing of the unit.

Erection, stripping and movement of the form can be handled either as individual

sible, resulting in lower labor and material costs. UNI-FORM Panels are rented or sold, or rented with an option to purchase.

For complete details on Universal "Y" wall forms and UNI-FORM Panels, Write.

UNIVERSAL DISTRIBUTORS

K. C. Construction Supply Company Denver, Colo.
Bow Lake Equipment Co. Seattle, Wash.
Universal Form Clamp Co. San Leandro, Calif.
Universal Form Clamp Co. Los Angeles, Calif.

See manufacturer's listing page 50H, Yellow Section



WHITE VIBRATORS COST
LESS TO BUY,
LESS TO MAINTAIN,
GIVE BETTER PERFORMANCE

EXCLUSIVE FEATURES INCLUDE:

...completely interchangeable drives and heads, no special couplings required, less spares needed for maintenance.

...heavier eccentric rotors in vibrator heads for better performance in concrete.

...power units, either gasoline engine or electric motor interchangeable.

...vibrator heads, from 1½" to 3", and grinding heads interchangeable.

...replacement drive shafts cost less.



Model M-12, with 4.6 HP Wisconsin engine, wheelbarrow mounted.



Model ME-13, with 2.5 HP, 110-volt electric motor.



Model M-9, with 2 HP Lauson engine, automatic clutch.

White
MANUFACTURING COMPANY

ELKHART 15, INDIANA

See listing page 52H, Yellow Section

Jeep fitted for trenching

Jeep-A-Trench Gear-Draulic is the name given to the first gear driven trencher with gears running in oil, manufactured by the Auburn Machine Works, Inc. The center of gravity has been moved ahead, placing more weight on the front wheels



which provides for better traction, straighter trenches, improved steering and much less stress on the frame.

The trencher weighs 1,750 lb. The boom is raised and lowered hydraulically to any position in the 190-deg. arc of travel. One man operates the four controlling levers, clutch, gear engagement, raising and lowering of the boom, and trenching speed. The Gear-Draulic will handle trench widths from 6 to 14 in. in any depth up to 6 ft. Trenching speeds depend upon soil conditions but the Gear-Draulic is capable of 800 ft. per hour. Headquarters of the manufacturer are Auburn, Neb.

New spring type conveyor belt cleaner

The S-A spring type conveyor belt cleaner, manufactured by Stephens-Adamson Manufacturing Co., is designed to remove material adhering to the belt after discharge, thus insuring maximum belt life by preventing cover wear. Steel wiper blades perpendicular to the belt surface, but diagonal to its line of travel, scrape off material allowing it to fall to the discharge chute.

The S-A spring type conveyor belt cleaner uses no moving parts and is designed with adjustable mounting brackets to fit any conveyor assembly. Bulletin 651 contains details. Address inquiries to company headquarters at 274 Ridgway Ave., Aurora, Ill.

Test chamber for concrete samples

Conrad, Inc., has developed an environmental chamber for testing concrete samples under various freezing and thawing conditions. This single chamber is capable of handling all three ASTM testing procedures automatically without annual adjustment. A pre-determined test program can be set up on the chamber cover-

ing from 1 to 8 cycles over a 24-hr. period. These cycles include freezing the concrete in air and thawing in water, freezing and thawing in water, freezing and thawing in brine. Fifty-five samples can be tested at one time. The temperature range is from 70 deg. to minus 20 deg. F. The test chamber is fully instrumented, has a sight window for visual inspection, and can record both physical and electronic tests of highway concrete samples. Address: 183 Jefferson Ave., Holland, Mich.

New light ¾-cu. yd. shovel crane

LS-68, a light ¾-cu. yd. shovel crane, is in production at Link-Belt Speeder Corp. The shovel has 10-in. diameter heat treated forged steel, single-flange track rollers which are bronze-bushed and mounted on 2½-in. diameter shafts. The LS-68 standard lower frame is designed to permit the use of 24-in. or 30-in. shoes. The two shoe sizes vary the ground bear-



ing area from 47 to 63 sq. ft. The machine weighs 35,300 lb. Separated drum gears and clutch shells permit the use of alloy cast iron. The clutch shells are bolted to the drum gears. Six conical hook rollers, equalized pairs in front and individually mounted in the rear, are standard on this model. This crawler base rig is fully convertible to all standard front end attachments. Complete specifications are given in bulletin No. 2541. Address inquiries to company headquarters at 1201 Sixth St., S. W., Cedar Rapids, Iowa.

Electric portable heater

A portable heater now in production by Fageol Heat Machine Co., Kent, Ohio, can be easily converted in a summer cooling unit. The machine can be placed in operation simply by plugging in the electric line and snapping a switch. Air intake of the oil burner is adjusted by loosening one screw and varying the size of the intake opening. The machine is completely self-contained, readily portable, and does not require a vent or chimney. Conversion of the heater into a fan is accomplished by changing the top blower mounting. Heating capacity is 189,000 BTU's per hour. Heat is sprayed out at floor level and is concentrated in the work zone from floor to 6 ft. above the floor. Dimensions are 21x33x58 in. Weight is 235 lb.

777 LORAINS ON 1 JOB

THE NEW YORK THRUWAY



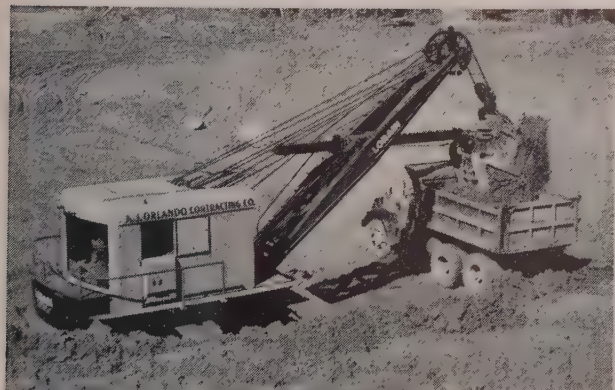
If this isn't more excavators than any other manufacturer has on this tremendous project, it certainly is close enough to prove that Lorains have those built-in qualities that big, successful contractors demand in their equipment. These same qualities are designed to make money for you whatever the size of your operation, because there is a size and type Lorain for any job. There are over 136 to choose from—with features only Lorain can provide. See your Thew-Lorain Distributor for the full story.



(TOP) MORAUER & HARTZELL, INC., Washington, D. C., has purchased 7 Lorains. Here are 2 of their Lorains on their 2½-mile Thruway sub-contract, which consists of moving 500,000 yds. in 5 months, including cuts ½ mile long and up to 145 ft. deep.

(MIDDLE) SAVIN CONSTRUCTION CO., East Hartford, Conn., has purchased 46 Lorains. One of them, an 820-K "Special" clamshell, with a 70-ft. boom, feeds a batching plant.

(LEFT) A. J. ORLANDO CONTRACTING CO., Whitestone, L. I., N. Y., has a sub-contract for grading and is using two 2-yd. Lorains to move a total of 6400 yds. every 8 to 10 hours. Shown is a 2-yd. 820-K "Special" which has moved as much as 370 yds. of dirt and rock per hour.



NEW YORK THRUWAY FACTS... 427 miles long—will cost \$555 million—over 80 million cu. yds. of excavation and fill—525 bridge structures—9 million barrels of cement, 4 million yards of stone, 2 million yards of sand needed for concrete.

THE W LORAIN

THE THEW SHOVEL CO., LORAIN, OHIO

**ANDREWS EQUIPMENT SERVICE
OF WASHINGTON, INC.**
Spokane, Wash.

CENTRAL MACHINERY CO.
Great Falls, Havre and Lewistown, Mont.

COAST EQUIPMENT CO.
San Francisco 3, California

J. D. COGGINS CO.
1717 No. 2nd, Albuquerque, New Mexico

A. H. COX & COMPANY
Seattle 4, Tacoma, Wash.

P. L. CROOKS & CO., INC.
Portland 10, Ore.

GENERAL EQUIPMENT CO.
Reno, Nevada

MCCOY COMPANY
Denver 17, Colo. Branches: Sterling, Alamosa & Grand Junction, Colo.

MOUNTAIN TRACTOR CO.
Missoula and Kalispell, Mont.

NASH-DAVIS MACHINERY CO.
Billings, Montana Branches at Bozeman, Mont. and Greybull, Wyo.

H. H. NELSEN COMPANY
Salt Lake City, Utah

LEE REDMAN EQUIPMENT CO.
Phoenix, Arizona

SANTA FE EQUIPMENT CO., INC.
Affiliated with Electric Tool & Supply Co.
Los Angeles and San Bernardino, Calif.

SOUTHERN IDAHO EQUIPMENT CO.
Idaho Falls, Boise and Twin Falls, Idaho

TRACTOR & EQUIPMENT CO.
Sidney, Mont. Branches: Miles City, Glasgow, Mont.

WESTERN EQUIPMENT CO.
Casper, Wyoming

YUKON EQUIPMENT CO. (for Alaska)
Seattle, Wash. Branches at Fairbanks and Anchorage, Alaska

See manufacturer's listing page 48H, Yellow Section

UNIT PRICES

Selected abstracts for Western projects

BRIDGE—Steel and concrete overpass in Montana

Montana—Silver Bow County—State. W. P. Roscoe Co. of Billings submitted a low bid of \$83,632 for construction of a 231-ft. steel and concrete overpass.

| | |
|-------------------------------------|----------|
| (1) W. P. Roscoe Co. | \$83,632 |
| (2) Dudley Construction Co. | 84,552 |
| Hammond-Ejerly Engineering Co. | 85,313 |
| Montana Engineer & Construction Co. | 86,539 |
| Cahill-Mooney Construction Co. | 87,005 |
| F. L. Flynn & Co. | 89,211 |
| N. A. Nelson Construction Co. | 94,981 |
| C. B. Lauch Construction Co. | 105,341 |

| | | | |
|--------------------------|----------------------------|---------|--------|
| 207,159 lb. | Structural steel. | \$.175 | (2) |
| 48,107 lb. | Reinforcing steel. | .14 | .14 |
| 287 cu. yd. | Class "A" concrete. | 60.00 | 59.50 |
| 140.6 cu. yd. | Class "AD" concrete. | 75.00 | 70.00 |
| 466.25 lin. ft. | Steel bridge rail. | 8.00 | 8.00 |
| 3,300 lin. ft. | Furnish tr. timber piling. | 1.30 | 1.50 |
| 3,036 lin. ft. | Driving tr. timber piling. | 1.10 | .50 |
| 280 cu. yd. | Structure excavation. | 4.00 | 3.00 |
| All Lump Sum Test piles. | | 400.00 | 500.00 |

BRIDGE—Reinforced concrete county bridge in California

California—Santa Clara County—State. Lew Jones Construction Co. of San Jose submitted a low bid of \$64,736 for construction of a bridge and approaches to be widened across Stevens Creek on Fremont Avenue between Burns Avenue and Mercedes Avenue, District IV, Route 1002.

| | |
|---|----------|
| (1) Lew Jones Construction Co. | \$64,736 |
| (2) Thomas Construction Co. | 65,854 |
| Charles S. Moore. | 65,874 |
| Dan Caputo Co., Edw. Keeble & Dan Caputo. | 66,884 |
| Carl N. Swenson Co., Inc. | 67,131 |
| O. C. Jones & Sons. | 67,482 |
| Granite Construction Co. | 68,134 |
| L. C. Smith Co. | 69,875 |
| Oscar C. Holmes. | 71,695 |
| James H. McFarland. | 72,532 |
| R. G. Clifford & C. O. Bodenhammer. | 73,498 |
| Bos Construction Co. | 74,149 |

| | | | |
|---------------|---|---------|---------|
| 330 cu. yd. | Rem. concrete. | \$ 6.00 | \$ 6.00 |
| | Clear and grub. | 1000.00 | 1375.00 |
| 630 cu. yd. | Rdwy. exc. | 1.25 | 1.40 |
| 270 cu. yd. | Struct. exc. | 2.65 | 3.20 |
| 2,115 sq. yd. | Compact. original ground. | .10 | .20 |
| 1,500 ton | I. B. M. | 1.90 | 2.70 |
| | Dev. wat. sup. & furn. wat. equip. | 1000.00 | 350.00 |
| 50 M gal. | Apply water. | 2.00 | 2.50 |
| | Finish rdwy. | 100.00 | 400.00 |
| 3 ton | Liq. asph. SC-1 (pr. ct.) | 45.00 | 35.00 |
| 3 ton | Asph. emul. (pt. bdr. & Cl. "D" sl. ct.) | 45.00 | 35.00 |
| 2 ton | Paving asph. 200-300 (Cl. "B-Dbt." sl. ct.) | | |
| | Screen. (Cl. "B-Double" sl. ct.) | 50.00 | 35.00 |
| 15 ton | P.M.S. | 10.00 | 9.00 |
| 460 ton | Class "A" P.C.C. | 5.85 | 6.00 |
| 280 cu. yd. | Struct. steel. | 62.00 | .57 |
| 190,000 lb. | Clean. and paint. struct. steel. | .12 | .12 |
| | 320 lin. ft. Steel railing. | 3400.00 | 3500.00 |
| | 480 lin. ft. Furn. tr. timber piling. | 10.00 | 8.60 |
| | 20 Ea. Driving timber piles. | 1.90 | 1.50 |
| | 544 lin. ft. Furn. concrete piles. | 120.00 | 115.00 |
| | 16 Ea. Driving concrete piles. | 4.50 | 3.30 |
| 37,000 lb. | Bar reforc. steel. | 220.00 | 220.00 |
| | | .10 | .103 |

HIGHWAY AND TUNNEL—Plant-mixed surfacing and tunnels to be tiled in California

California—Marin County—State. A. G. Raisch Co. of San Rafael submitted a low bid of \$1,192,953 for 3.7 mi. in length to be surfaced with plant-mixed surfacing on cement treated base, tunnels to be tiled, and highway and tunnel lighting to be installed between Manzanita and Golden Gate Bridge.

| | |
|---|-------------|
| (1) A. G. Raisch Co. | \$1,192,953 |
| (2) Chas. L. Harney, Inc. | 1,244,906 |
| Guy F. Atkinson Co. | 1,295,342 |
| Eaton & Smith. | 1,307,627 |
| Parish Brothers Inc. & Parish Bros. | 1,382,620 |
| M. & K. Corp. & Fredrickson & Watson Construction Co. | 1,399,821 |
| Brown-Ey Co., Contractors and Hutchinson Co. | 1,480,442 |

| | | | |
|-------------------|--|----------|----------|
| 12 cu. yd. | Removing concrete. | \$ 24.00 | \$ 15.00 |
| 14,000 lin. ft. | Removing traf. stripes. | .12 | .23 |
| 79,000 cu. yd. | Rdwy. exc. | .55 | .78 |
| 3,700 cu. yd. | Struct. exc. | 2.50 | 4.00 |
| 2,350 cu. yd. | Struct. backfill. | 4.20 | 3.20 |
| 120 cu. yd. | Ditch & channel exc. | 3.60 | 3.40 |
| 7,500 sq. yd. | Compacting original ground. | .12 | .06 |
| 1,405,000 sq. yd. | Overhaul. | .004 | .004 |
| | Dev. wat. sup. & furn. wat. equip. | 1800.00 | 23000.00 |
| 5,500 M. gal. | Applying water. | 2.40 | .50 |
| | Finish rdwy. | 3500.00 | 6300.00 |
| 26,300 bbl. | Portland cement (C.T.B.) | 3.50 | 3.40 |
| 82,500 ton | Process. selected material for min. aggr. (C.T.B.) | 175.00 | .90 |
| 195,000 sq. yd. | Mix. spread & compact. C.T.B. | .072 | .35 |

Continued on Page 162

Economy Steam Cleaner

For Faster Cleaning Lower Costs

Steam in 90 seconds, ready to start cleaning. Simplified one-control system regulates steam pressure and saturation. Water is pre-heated before entering coil for quicker steam, fuel economy. Rugged, simple construction with only two moving parts, assures dependable operation and low maintenance cost. Top quality at economy price.

Application

ECONOMY STEAM CLEANERS meet the cleaning requirements of varied businesses including Truck and Fleet Owners, Plant Maintenance, Machinery, Garages, Service Stations, Poultry Raisers, and Dairies.

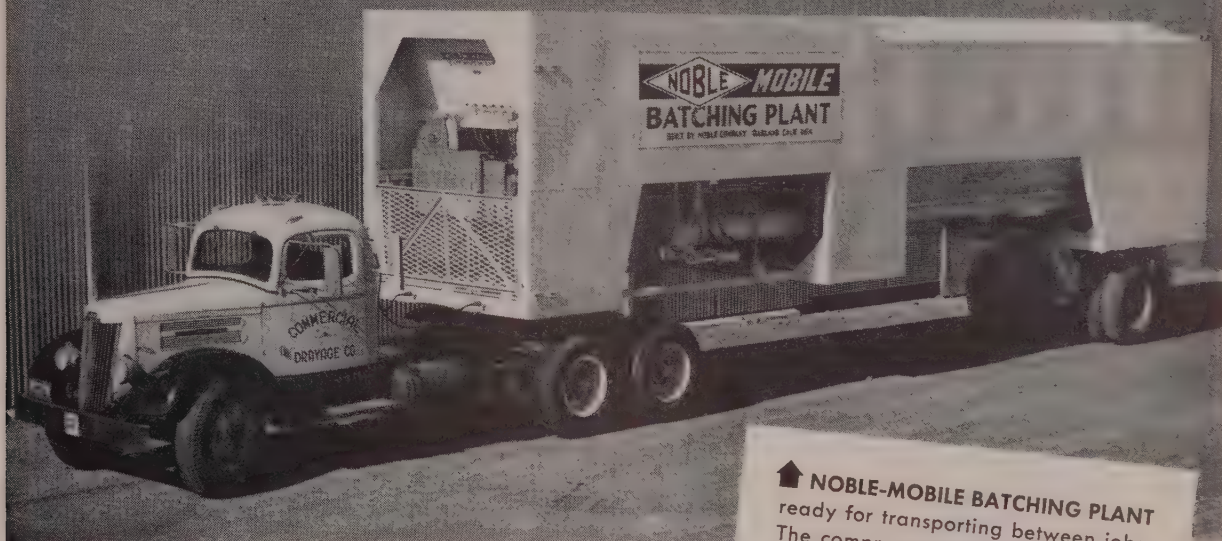
Complete Specifications and Prices upon request.

Ker-O-Kil Manufacturing Co.

Redwood City, California



New COMPLETELY PORTABLE BATCHING PLANT



NOBLE-MOBILE BATCHING PLANT

FOR CONCRETE CONSTRUCTION IS A COMPLETE PLANT IN EVERY DETAIL. IT FEATURES THE STANDARD NOBLE SEMI-AUTOMATIC OR FULL-AUTOMATIC CEMENT AND AGGREGATE BATCHING SYSTEM. BULK CEMENT IS BATCHED IN THE CENTER CEMENT COMPARTMENT OF A STANDARD TWO YARD WEIGH HOPPER. OUTPUT CAPACITY IS 60 YARDS PER HOUR OR MORE.

Aggregate bin is 3 compartment, 28 tons capacity. Charged by. scooploader, clam-shell or conveyor.

Bulk cement storage capacity 1000 cu. ft. standard bulk truck receiving facilities.

Request one of our engineers to bring you complete information on the new NOBLE-MOBILE.

↑ **NOBLE-MOBILE BATCHING PLANT** ready for transporting between jobs. The compressor, motor control panel board, and batching controls are an integral part of the unit which is moved intact. The trailer dolly is a part of the unit and is within legal limits, without special permit, for travel on highways in most states. The cement elevator and receiving hopper, weigh hopper and conveyor section are hauled on a flatbed truck or trailer. Assembly and take-down at job-site is a simple operation.

THE PLANT IN OPERATION, BATCHING CONCRETE RIGHT ON THE JOB, FOR A LARGE HOUSING PROJECT. ↓



DESIGNERS AND BUILDERS

CEMENT AND AGGREGATE BATCHING PLANTS
BULK CEMENT PLANTS • AGGREGATE BINS
CEMENT SILOS • CONVEYORS AND ELEVATORS

NOBLE COMPANY

1840 SEVENTH STREET • OAKLAND 20, CALIFORNIA • TEMPLEBAR 2-5785

SEATTLE OFFICE: 518 FIRST AVENUE N., ROOM 22, SEATTLE, WASHINGTON • LOS ANGELES: 117½ WEST MANCHESTER, INGLEWOOD, CALIFORNIA

See manufacturer's listing page 38H, Yellow Section

Dig • Load • **FAST!**

UNIT PRICES ... CONTINUED

WITH
**SMOOTH OPERATING
SHAWNEE
EQUIPMENT**



Pat. No. 2,669,367

SCOUT DITCHER

Digs 12 ft. deep. Various bucket sizes available. Digs under 8 ft. ceiling. Operation smooth and powerful. Easy to install on most all tractors. Removes from tractor in minutes.

Shawnee "SPECIAL" Loader



Down pressure so great, this loader can even lift front wheels off the ground. Removes in ten minutes. Lifts 2,000 lbs. to 9 ft.

Shawnee "LOADMASTER"

with HYDRO-CLAM—One Tractor, Many Uses

Heavy duty, industrial type loader with double bucket cylinders. All welded construction. Easily installed or removed. Working in combination with Hydro-Clam for digging spot excavations, the unit performs many labor saving jobs. Down pressure.

FOR SNOW REMOVAL

¾ Cu. Yd. snow bucket (66" wide) available for Shawnee "SPECIAL" Loader. 1 Cu. Yd. snow bucket (76" wide) available for the "LOADMASTER". Bucket clears wheels for street clean-up.



Ad No. 491-C

DISTRIBUTORS:

FARM AID EQUIP. CO.
2932 EAST TRENT
SPOKANE, WASHINGTON

H. B. EQUIPMENT CO.
18912 S. NORMANDIE
LOS ANGELES, CALIFORNIA

Manufactured by
Shawnee Manufacturing Co., Inc., 1947X N. Topeka, Topeka, Kansas
See manufacturer's listing page 45H, Yellow Section

| | | | |
|-----------------|---|-----------|-----------|
| 226 ton | Asph. emuls. (cur. sl., Cl. "C-Med") | 42.00 | 44.00 |
| 45 ton | Sl. ct., pt. bndr. & Cl. "D" sl. ct. | | |
| | Liq. Asph., SC-1 or SC-2 | 36.00 | 40.00 |
| 3 ton | (Per. tr. & pr. ct.) | 48.00 | 56.00 |
| 100 ton | Pav. asph. (Cl. "B-Single" sl. ct.) | 5.40 | 7.50 |
| 3,000 sq. yd. | Screenings (sl. ct.) | | |
| 31,600 ton | Sterilizing soil | .30 | .16 |
| 5,800 ton | Min. aggr. (type "A" P.M.S.) | 4.87 | 6.50 |
| 1,810 ton | Min. aggr. (open graded P.M.S.) | 5.02 | 7.00 |
| 6,000 sq. yd. | Pav. asph. (P.M.S.) | 27.00 | 6.50 |
| 10,700 lin. ft. | Placing P.M.S. (gutters) | .18 | .80 |
| 130 lin. ft. | Placing P.M.S. (dikes) | .18 | .21 |
| 80 cu. yd. | Raised traffic bars | 2.10 | 2.30 |
| 14,000 lb. | Class "A" P.C.C. (Structures) | 90.00 | 95.00 |
| 5 cu. yd. | Misc. iron & steel | .30 | .30 |
| 2,575 cu. yd. | Sacked concrete riprap | 50.00 | 40.00 |
| 1,100 ea. | Cl. "B" P.C.C. curbs, gutters & sidewalks | 36.00 | 30.00 |
| 17,792 lin. ft. | Curb dowels | .30 | .60 |
| 2,048 lin. ft. | Metal plate guard railing | 2.75 | 3.00 |
| 3,348 lin. ft. | Salv. exist. met. plate guard rail | .65 | .70 |
| 230 ea. | Reconst. salv. met. plate guard rl. | .93 | 1.20 |
| | Culv. mkrs. horiz. refl. units & guide posts | 5.50 | 6.00 |
| 6,718 lin. ft. | 36" chain link fence | 1.00 | 1.10 |
| 644 lin. ft. | 48" chain link fence | 1.15 | 1.40 |
| 440 lin. ft. | 12" R.C.P. | 2.05 | 2.50 |
| 1,328 lin. ft. | 18" R.C.P. | 3.35 | 4.00 |
| 260 lin. ft. | 21" R.C.P. | 4.45 | 5.00 |
| 204 lin. ft. | 24" R.C.P. | 5.80 | 6.00 |
| 164 lin. ft. | 27" R.C.P. | 7.00 | 7.00 |
| 224 lin. ft. | 30" R.C.P. | 7.80 | 7.50 |
| 216 lin. ft. | 36" R.C.P. | 10.20 | 12.00 |
| 25 lin. ft. | 39" R.C.P. | 12.00 | 13.50 |
| 12 lin. ft. | 48" R.C.P. | 30.00 | 18.00 |
| 34 lin. ft. | 8" C.M.P. asbest. bnd. & bit ct. (16 gage) | 3.60 | 3.00 |
| 16 lin. ft. | 18" C.M.P. bit. ctd. (16 gage) | 9.00 | 5.50 |
| 18 lin. ft. | 30" C.M.P. bit. ctd. (14 gage) | 14.40 | 10.00 |
| 18 lin. ft. | 42" C.M.P. bit. ctd. (12 gage) | 26.40 | 17.00 |
| 176 lin. ft. | 12x2 ¼ pt. cir. corr. met. culv. (12 gage) | 2.70 | 2.50 |
| 846 lin. ft. | 8" P.M.P. underdr. asbest. bnded & bit. coat. (16 gage) | 2.70 | 3.00 |
| 200 cu. yd. | Filter material | 7.20 | 4.50 |
| 1 ea. | Spillway assem. (12" outlet) | 60.00 | 65.00 |
| 88 lin. ft. | 12" C.M.P. dn. dr., bit. ctd. (16 ga) | 4.10 | 4.00 |
| 78 lin. ft. | 18" C.M.P. dn. dr., bit. ctd. (16 ga) | 6.00 | 5.50 |
| 376 lin. ft. | 24" C.M.P. dn. dr., bit. ctd. (14 ga) | 8.10 | 8.00 |
| 8,800 lb. | Bar reinf. steel | .12 | .17 |
| 1,500 lin. ft. | Water stor. tank (wat. sup. sys.) | 1080.00 | 750.00 |
| 200 lin. ft. | 1 ½ galv. stl. pipe (wat. sup. sys.) | 1.20 | 1.10 |
| 1,680 lin. ft. | 3" outlet pipe | 3.75 | 11.00 |
| 2,227 lin. ft. | 3" interceptor pipe | 2.00 | 1.90 |
| 1,990 lin. ft. | 2" collector pipe | 4.00 | 4.50 |
| 700 lin. ft. | Weep holes | 2.00 | 3.40 |
| 4,180 lin. ft. | Cutting out cracks | 3.50 | 2.20 |
| 4,880 lin. ft. | Cutting out joints | 4.00 | 2.20 |
| | Seal cracks & joints | 3.00 | 1.00 |
| | Prep. tunn. for tilg. (S. bnd-old) | 3349.00 | 3500.00 |
| | Prep. tunn. for tilg. (N. bnd-new) | 3190.00 | 3400.00 |
| 1,000 sq. yd. | Tunn. tile (walls) (S. bound-old) | 14.54 | 15.25 |
| 1,050 sq. yd. | Tunn. tile (walls) (N. bound-new) | 14.87 | 15.50 |
| 316 sq. yd. | Tunn. tile (arch-ctr.) (S. bnd-old) | 16.69 | 19.00 |
| 8,200 sq. yd. | Tunn. tile (arch) (N. bound-new) | 13.83 | 14.50 |
| | Sign frames | 1400.00 | 1000.00 |
| | Highway lighting & sign lighting | 65761.00 | 87000.00 |
| | Tunnel lighting | 135235.00 | 130000.00 |
| 6 ea. | Wood pole electroliers | 135.00 | 300.00 |

WATERWAY—Construction of revetments on South Santiam River in Oregon

Oregon—Linn County—C. of E. A low bid of \$13,845 was submitted by the Floyd Graham Construction Co. of Lebanon for construction of derrick and dumped stone revetments along the left bank of the South Santiam River at the Cox Location, 8 mi. east of Albany.

| | |
|---|---------------|
| (1) Floyd Graham Construction Co. | \$13,845 |
| (2) S. W. Groesbeck | 16,933 |
| Contracting officer's estimate | 10,358 |
| | (1) (2) |
| 3,440 cu. yd. Excavation | \$1.50 \$1.25 |
| 300 cu. yd. Embankment from gravel borrow | .01 1.50 |
| 1,610 cu. yd. Dumped stone revetment | 5.50 4.25 |
| 530 cu. yd. Derrick stone, in place | 5.50 4.25 |

SEWERAGE—Sanitary sewer in California

California—Shasta County—City. A low bid of \$47,924 was submitted by Pat Barkley of San Jose for construction of a sewerage system in Red Bluff.

| | | Alternate A | Alternate B |
|--------------------------------|--------------------------------|-------------|-------------|
| (1) Pat Barkley | | \$47,924 | \$48,843 |
| (2) McGuire & Hester | | 56,415 | 58,399 |
| Baldwin Construction Co., Inc. | | 55,891 | 59,934 |
| | | (1) | (2) |
| 3,675 lin. ft. | 8-inch VCP, Alternate A | \$ 4.00 | \$ 4.37 |
| 3,675 lin. ft. | 10-inch VCP, Alternate B | 4.25 | 4.91 |
| 5,285 lin. ft. | 6-inch VCP | 3.05 | 4.07 |
| 1 ea. | Manholes up to 5 ft | 240.00 | 160.00 |
| 3 ea. | Manholes 5 to 7 ft | 275.00 | 180.00 |
| 5 ea. | Manholes 7 to 9 ft | 290.00 | 225.00 |
| \$0 ea. | Manholes 9 to 11 ft | 310.00 | 260.00 |
| 5 ea. | Manholes 11 to 13 ft | 390.00 | 300.00 |
| 1 ea. | Manholes 13 to 15 ft | 405.00 | 340.00 |
| 1 ea. | Connection to existing manhole | 50.00 | 30.00 |
| 11 ea. | Rod holes | 55.00 | 40.00 |
| 53 ea. | House connections up to 10 ft | 30.00 | 30.00 |
| 23 ea. | House connections 10 to 20 ft | 60.00 | 40.00 |
| 44 ea. | House connections 20 to 30 ft | 90.00 | 62.50 |
| 50 cu. yd. | 2-inch max. gravel | 3.00 | 3.00 |
| Lump sum | Replace pavement | 1,400.00 | 6,700.00 |



2

"PORTABLES"

FOR MORE

PROFIT IN

BATCHING



It moves with the job — without an over-width highway permit! This Conveyco Fully Portable 1½-Yard Batch Plant goes anywhere your trucks can go, sets up or takes down in one day. Belt-fed, clam shell or bucket elevator loading. The special silo acts as its own semi-trailer. Aggregate bin erects or takes down in 4 compact sections that travel in convoy to the next location. Bin capacity: 95 tons (135 tons with surcharge section). A big profit factor for the operator who must move his equipment fast and often!

Conveyco Recirculating Silos...

... provide the utmost in portability and easy erection. Have integral bucket elevators and recirculating systems. Silos set in operating position with one lift of crane. When connected to power source, silo is then ready to operate.

There's a Conveyco Plant for Every Batching Need!

For almost three decades, The Conveyor Company has specialized in the design and manufacture of portable and stationary concrete batch plants. Conveyco manufactures batch plants for every need in capacities from 75 to 500 tons. This broad experience has enabled contractors to produce concrete more efficiently — and more profitably.

Why not put this depth of engineering skill to work for you? If you have a batching problem... need specialized equipment for a specific job... Conveyco engineers are sure to have the answer. What's more, they'll be happy to assist you select the proper units to fit any job.



THE CONVEYOR COMPANY

Engineers and Manufacturers

3260 E. Slauson Avenue • Los Angeles 58, California

See manufacturer's listing page 17H, Yellow Section



The Conveyco 5½-Yard Batch Plant is made to order for concrete producers who prefer greater bin capacity and large weigh hoppers, yet insist upon portability, ease of erection and take-down. The entire plant can be set up in one day by a crew of four men with a crane. Every detail of design has been planned to produce compact, ready-to-run components that can be quickly set in place and assembled with a minimum of bolting. Capacity: 80 tons (125 tons with hinged surcharge section).

Literature describing Conveyco portable and stationary batch plants and auxiliary equipment is yours for the asking. Just clip the coupon below to your letterhead and mail today!



The Conveyor Company, Dept. WS-70
3260 E. Slauson Avenue
Los Angeles 58, California

Please send free Catalogs describing Conveyco batch plants and auxiliary equipment.

Name _____
Firm _____
Address _____
City _____ Zone _____ State _____

News of DISTRIBUTORS

AED: Round tables for 3 Western regions

FOR A SECOND TIME the Associated Equipment Distributors of the eleven Western States (Regions 11, 12, and 14) have gathered in a Tri-Regional Conference to discuss common problems. This conference was held in Colorado Springs, Nov. 4, 5, and 6, and had been preceded three years earlier by the first conference of its kind, at Sun Valley. Success of the recent conference and the endorsement of those attending indicate that such a tri-regional meeting will become a regular event, possibly at 2-yr. intervals. Host of the 1954 meeting was Region 14 under the direction of R. E. Corson, director.

Opening general session

The first business meeting of the conference was conducted by R. E. Corson and led off with a report on AED activities, both present and future, by President Gagel. He particularly emphasized the fact that AED was developing recognition at the national level, noting that several officers of AED had recently been appointed to serve on boards and committees of national organizations.

Ray Finn, executive vice president of AED, reviewed in some detail the results of a questionnaire survey intended to develop information on the cost of doing business among AED members. This information will subsequently be prepared in report form and made available to members of the organization.

A. S. Horner, a past national president of AGC, reviewed some of the things that a contractor expects from his equipment distributor. He restated some of the standard requests made most frequently by contractors, including the need for the stocking of parts by distributors and the value of prompt service in making these parts available. The promptness of such service is particularly important over week-ends when a contractor has the opportunity to make repairs and carry out maintenance without shutting down his job. This is particularly true here in the West where jobs are so far removed from manufacturing establishments. He also said that contractors expect distributors to provide adequate instruction for operators when the equipment is delivered to the job, with special attention on preventive maintenance.

Finally, Horner condemned the practice of some distributors in offering to equip new contractors through exceptional financing programs, if and when they secured a job. This tends to put the inexperienced contractors into business at an unfair advantage to the established contractors who carry out work in accord with AGC standards.

Shirtsleeve sessions and summaries

The main feature of the conference was the group of "shirtsleeve" round table discussions where the distributors divided into six small groups for one entire afternoon. These sessions had been carefully arranged with discussion leaders distributed among the three regions, and assignments which placed distributors of varying size and geographical location around the same table.

At the concluding session of the conference the six discussion leaders summarized the ideas and comments presented at their tables for the benefit of all attending. Some of the major points made in these summaries follow:

Contractors like lease-purchase

Herb Mayer, Edward R. Bacon Co., San Francisco, reviewed the subject of financing and leasing, stating that for rather obvious reasons contractors like the leasing principle for acquiring construction equipment. The method has now become firmly established and can be expected to continue. An increasing problem relates to the matter of interest rates, which have been reduced in many cases for the purpose of concluding a tough sale. Mayer stated that the consensus of his group was that financing charges have deteriorated. This situation approaches a condition where the distributor becomes a partner in financing a contractor without adequate compensation.

Another modern practice related to the paying of equipment on the basis of "yards moved" or similar units of field work. Such a plan, according to the discussion group, should at least be protected by the requirement of minimum monthly charge. Further, such a plan would obviously be suitable only for a few select customers.

The matter of "product" insur-

ance, where the distributor would be named along with the manufacturer on damages due to alleged failure of the product, was also discussed. Costs and the variation in the costs of insurance protection were also reviewed extensively. At the conclusion of this report, President Gagel told the members of the conference that a committee of AED was already studying the idea of a standard program for adequate insurance to protect equipment distributors.

Advertise your own services

The round table discussion of advertising was summarized by Edward Taylor, Gunderson-Taylor Machinery Co., Denver. He reported a consensus definitely opposed to cooperative advertising, and the sentiment that manufacturers should promote the lines and products they make. The distributor's position was that it is the sole responsibility of the manufacturer to create and build up acceptance for his product, leaving the distributor the job of building up acceptance for his services.

The availability of used equipment was mentioned as the most fruitful place for the use of distributor advertising funds. This could be carried out by leaflets distributed by direct mail or by newspaper classified advertising. Direct mail was considered as the most effective means of getting this message to prospects if it was properly done in accord with a well-conceived plan. It was felt that the mailings should be addressed to individuals and that the list should be built up by the distributors' salesmen. Also any plan must include necessary financing for three or four mailings, as one will prove ineffective. Advertising budgets varied from 0.5% to 2% of gross volume of business.

The idea of a Junior AED for service and parts men was explored by Conrad Creim, Bow Lake Equipment Co., Seattle. The round table discussion on this subject developed many pros and cons. The final consensus was that it remained one for local consideration and possible development.

Training for salesmen

The training of salesmen was summarized by John C. Moore, H. W. Moore Equipment Co., Denver. The discussion in that group covered all aspects of the subject from the matter of selection, with the possibility of aptitude testing, through the need for training in front-office routine, parts and service work before the man was properly equipped for starting a sales career. The idea of sending the young salesman to a factory school for a short course generally met with disapproval on the grounds that such a course might be too intense and create more confusion than clarity in the mind of the young salesman. However, the idea of a trip to the factory for general observa-



THE NEW EQUITABLE BUILDING

in San Francisco is scheduled
for completion in May of this year.

Architects: W. D. Peugh, and successors Loubet & Glynn

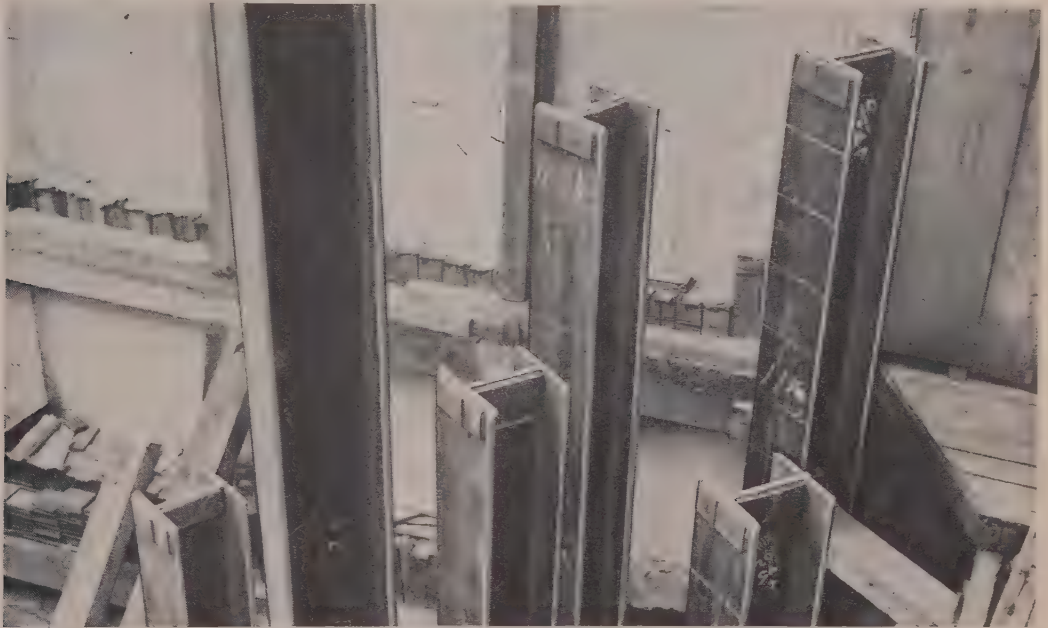
Consulting Architect: Irwin Clavan, New York

Structural Engineers: F. W. Kellberg, Foundation Engineer: Charles H. Lee

General Contractor: Dinwiddie Construction Co.

Steel Erection: Consolidated Western Steel Division

25 Stories Up... and 133 Feet Down!



To provide a firm foundation for the new 25-story Equitable Building required 446 H-Beam Bearing Piles (14 in., 102 lb.) driven to refusal in hard rock at depths ranging from 107 to 133 feet below basement level. Piles were designed for an allowable load of 135 tons. Construction on the new building also features high-strength steel bolts instead of rivets. And in addition to the 3300 tons of piling, 5300 tons of structural and 50 tons of stainless exterior facing are used. It takes steel to change a skyline... and all of this steel came from the mills of United States Steel.



USS Products for Heavy Construction

United States Steel Corporation • Columbia-Geneva Steel Division

UNITED STATES STEEL

See manufacturer's listing page 16H, Yellow Section

tion and indoctrination was considered most helpful.

Lastly, the subject of warranty on equipment was summarized by Willis Blakesley. The subject was considered in its two obvious parts: the relation of distributor to manufacturer and the relation of the distributor to the final purchaser. The generally accepted standard of a 90-day warranty on defects was considered proper and adequate, but its interpretation and final settlement for the distributor who carries out the replacement is subject to wide variation. Large and well established manufacturers, according to the discussors, will tend to take care of such claims both as to the replaced part and a basic labor allowance. On the other hand, too many manufacturers may use every device to get out of this responsibility.

On the second stage—the warranty

as it exists between distributors and purchasers—the consensus held that this matter fell wholly on the distributor since, in the final analysis, it is to his advantage to keep the customer satisfied. Every purchaser is also a potential customer for other lines handled by the distributor and must not be allowed to become dissatisfied over defects on one particular unit. Complaint was registered in connection with factory service men who were considered prone to see only the one side of such disputes.

Jack Randle concluded the final session with one of his usual stimulating and inspiring talks. Starting with the growth and present size of the industry, he told of the keener competition between contractors which leads to pressure on distributors for price cutting and other expedients which may provide a temporary benefit but do long range harm.

ington, Oregon, Idaho, and Montana; Alaska, and western Canada. He will maintain headquarters in Seattle, at the district sales office, where he has been sales representative for small shovels manufactured by the company.

Waltman moves to Northwest

Herbert L. Waltman has been named manager of the Pacific Northwest district for Leschen Wire Rope Division, H. K. Porter Co., Inc. The district covers Washington, Oregon, western Idaho, Montana, and North Dakota, with headquarters in Seattle. Waltman has been with Leschen since 1941 and before the present appointment he was manager of the Leschen Denver sales district. In mid-November the company moved its Seattle warehouse and office to 2724 First Ave. South.

Roebling's appoints Pac. Coast mgr.

Robert J. Cole has been named by John A. Roebling's Sons Corp. as Pacific Coast manager of the firm's construction materials division. Cole, prominently identified with construction of many of the country's largest suspension bridges during the past 25 years, will now direct the sale of wire and stranded steel products for prestressed concrete from Roebling's district headquarters in San Francisco.

Ken Simpson joins Cook Bros.

Ken Simpson has joined Cook Bros. Equipment Co. and will specialize in the sale of C. S. Johnson concrete batch plants to contractors and ready-mixed concrete companies. Simpson has been associated with heavy construction for more than 25 years, having worked in both the construction and engineering fields. He will headquarter at the main office of the company in Los Angeles and will serve the construction industry in batching equipment throughout California, Arizona, and Nevada.

Nelson Stud Welding moves

Nelson Stud Welding Division of Gregory Industries, Inc., has moved its Denver factory branch warehouse to larger quarters at 1434 Blake St., to meet increasing demand for stud welding equipment from construction and manufacturing firms in the

Columbia officials

New company officials have recently been named by Columbia Equipment Co., Portland and Seattle dealer. F. L. (Jerry) Jerome, who has been with the company for the past ten years, was elected president. Newly elected vice president and sales manager is J. M. (Jim) Wahoske, who has also been with Columbia for ten years. Floyd W. Morris was elected secretary-treasurer. Election of these officials followed announcement of the retirement of Frank McBath as president and F. L. Jerome and Ray Hicks as vice presidents.

DeHuff manages Denver office

William H. DeHuff, recently promoted to manager of the Denver office of Harnischfeger Corporation, is directing sales of all P&H products in that territory. A civil engineer, DeHuff has been with Harnischfeger since 1949 and his experience equips him with a thorough knowledge of all the products manufactured by the company. DeHuff succeeded Thomas J. Jeanneret, who was appointed general manager of the Pacific Division at Los Angeles.

TerraTrac appoints regional mgr.

George A. W. Bell, Jr., recently of Billings, Mont., is the new Western regional manager of the American

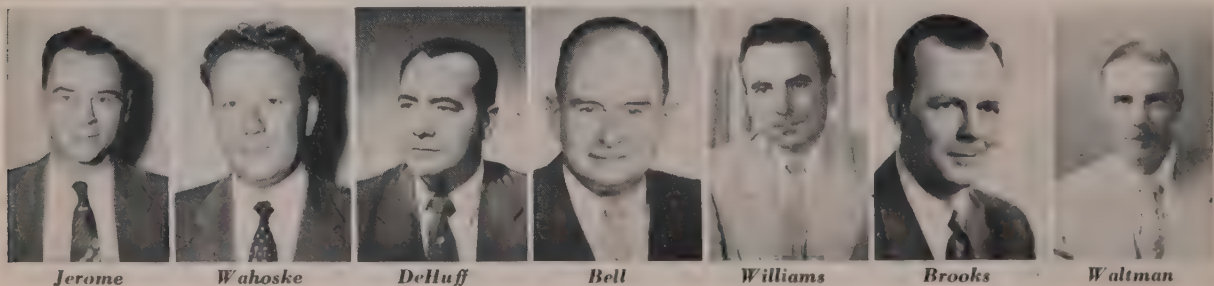
Tractor Corp., with headquarters in San Francisco. He has had wide experience in the earthmoving, logging, and materials handling fields. He served a number of years with Caterpillar. Following War II he set up distribution of Schield Bantam shovels and cranes in the West, and during the past several years he has been a successful excavating contractor in Montana.

Don Williams is Northwest mgr.

Appointment of Don R. Williams of Portland, Ore., as division sales manager for Oregon, Washington, and British Columbia, was recently announced by Osgood-General. Most recently he has been sales manager for P. L. Cook & Co., Portland, and prior to that had been in business for himself as an equipment distributor in Eureka, Calif. In his new post he will work with and through Osgood-General distributors in his area, including Western Equipment Co. in Portland and Eugene; Washington Machinery Co., Inc., Seattle; and Columbia Equipment Co., Ltd. in Vancouver, B. C.

R. P. Brooks named sales mgr.

Robert P. Brooks was recently appointed Northwestern sales manager for Bucyrus-Erie Co. He takes over responsibility for sales of all Bucyrus-Erie products in the states of Wash-





This Caterpillar D318 Diesel—powering a crane—works through a Twin Disc Model CF Torque Converter which provides faster work cycles, protects both engine and driven equipment. Behind the Model CF are a Twin Disc Reverse Gear and two Twin Disc Heavy-Duty Friction Clutches.

Why the trend is to Torque Converters

Planning to order a new power unit?

Today, many equipment owners are planning on getting *more* work output . . . and *longer* equipment life: they're ordering their new power units *complete* with Twin Disc Torque Converter Drive. And they're having Torque Converter Drive installed on equipment already working in the field.

Why? Briefly, here are six *proven* reasons why: 1 Through the Twin Disc Three-Stage design, their engines' output torque is *multiplied up to six times* . . . the highest torque multiplication available. Consequently, they're *eliminating* harmful, costly engine lugging and stalling. 2 With Torque Converter Drive, their engines are working up in the maximum efficiency range *all* the time, delivering *constant* high-horsepower output. 3 Power is *automatically* matched to the load demand, with

gear-shifting minimized or eliminated. 4 Heavy load pick-up is *smooth, even, without* clutch-slip-page. 5 Overloads, shock loads, vibrations and torsional variations are *cushioned out*, through *fluid* connection . . . which means *longer* life, *less* maintenance on engines, transmissions, clutches, drive line components and driven equipment. 6 Torque Converter Drive provides an *infinite* variety of ratios to work with, permitting *smooth, accurate* control of the load and delicate "inching" or "holding" under power.

So if you're thinking about a new power unit . . . or thinking about present equipment needing more power, more performance . . . *be sure to get the facts on Torque Converter Drive.* Ask your engine dealer. Or write Twin Disc Branches: 2950 Leonis Blvd., Los Angeles 58, Calif.; 820 1st Ave. S., Seattle 4, Wash.

By providing the most COMPLETE line of Industrial-Type Torque Converters available, Twin Disc can accommodate any type gas or diesel engine up to 650 hp—with practically any hook-up. Three series, or sizes, of Three-Stage Torque Converters are provided, with 7 capacities in each size through internal blading variations. A total of 20 different input, output combinations are available, making Twin Disc Torque Converters easily adaptable to any type installation.



TWIN DISC CLUTCH COMPANY, Racine, Wisconsin
Hydraulic Division, Rockford, Illinois

See manufacturer's listing page 49H, Yellow Section



LINK-BELT CO.'s new modern sales office and warehouse at 3030 N.W. Industrial St., Portland, Ore., is a company-owned building and includes office space, large warehouse facilities and a factory branch store. It has been designed for easy expansion in the future.

Rocky Mountain area. Vincent G. Probst is resident manager for Nelson.

New Allis-Chalmers branch mgr.

Sherman O. Anderson is appointed branch manager at Portland, Ore., for the Tractor Division, Allis-Chalmers Mfg. Co., succeeding A. E. Mills who has retired. Anderson has been company branch manager in Toledo, Ohio, since 1950.



Anderson



Hjalmarson

New Western rep.

The Wayne Crane Division of American Steel Dredge Co., Inc., has announced the appointment of Conrad Hjalmarson as the new Western district sales representative, with

headquarters in Los Angeles. For the past seven years, Hjalmarson has been a construction superintendent with several large construction companies both in the United States and abroad.

Pac. Northwest district mgr.

Smith Engineering Works, manufacturer of "Tel-smith" crushers and other equipment for contractors, gravel plants, quarries, etc., announces the appointment of Jake R. Smith as Pacific Northwest district manager. His territory includes Washington, Oregon, and Idaho and the provinces of British Columbia and Alberta, with headquarters in Portland, Ore.

Billings White Truck

Billings White Truck Co., Billings, Mont., has been appointed state distributor for Hobbs Trailer Co., Fort Worth, Tex., manufacturer of the Hobbs-Schonrock cable dump trailer.

Pacific Hoist & Derrick

Pacific Hoist & Derrick Co., Seattle, was recently appointed distributor for Ford industrial tractors, loaders and diggers, featuring Ford major diesel, for Seattle and Puyallup,

Wash., as well as the Washington counties of Pierce, Mason, Kitsap and Thurston.

Portland firm adds to sales force

Two new men recently were added to Cummins Diesel Sales of Oregon, Inc. Joe T. Dahl is handling sales in the Portland, Ore., area, and Bernard W. Hanson is in sales and service, with headquarters in Roseburg, Ore.

J. T. Jenkins extends service

J. T. Jenkins Co., Los Angeles equipment company, on Nov. 1 opened a branch in Albuquerque, New Mex., at 1630 Second St. N. W., handling Kenworth motor trucks: sales, service and parts. Glenn Stroud is branch manager; H. D. Drum, service manager; and William C. Roach, parts manager.

Intermountain distributor

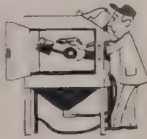
Motor Mercantile Co., headed by Hal Barbel, manager, and located at Salt Lake City, Utah, was recently appointed to represent the Continental Sales & Service Co. as Intermountain distributor.

Homelite promotes Ralph Evans; ups Dodelin

Richard Dodelin has replaced Ralph Evans as branch manager of Homelite Corporation's Sacramento (Calif.) branch. Ralph Evans was promoted to assistant district manager at San Francisco.

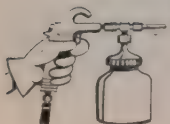
New Wyoming corporation

A new corporation, the Keremi Tractor & Equipment Co., has been formed at Cheyenne, Wyo., to sell and service various lines of construction and industrial equipment in the state of Wyoming and a portion of western Nebraska formerly handled by Wilson Equipment & Supply Co. Principal offices and warehouses are located at Cheyenne, with branch office and warehouses at Casper, the locations being the same as those previously occupied by Wilson. Officers of the new corporation are George Fouliard, president; and H. E. Martin, vice president.



CYCLONE SANDBLASTERS

will solve your blastcleaning needs. CYCLONE features one man trigger controlled operation, lightweight, portability, low cost. A complete line of sandblast equipment that operates from 1 HP to 100 HP compressors.



From small hand tools to blasting cabinets, rooms and dust collectors.

For prices and literature write to

SAFETEE PRODUCTS CO.

173 14th St., San Francisco 3



MOVING?

MOVED?

PLANNING TO MOVE?

Don't forget to use our rip-out post card for your change-of-address.

First in the field!

New Gardner-Denver 4½" Wagon Drill

new

4½" hammer diameter for
heavy-duty rock work.

new

drilling capacity for
handling larger rock bits.

new

drilling power for
deep hole drilling.



The new WRM123 heavy-duty Wagon Drill combines the new 4½" Drill, Ring Seal Shank, Sectional Drill Rods, and hydraulic power lifts for positioning the mast. Handles 10- to 12-foot steel changes. Write for additional specifications on Model WRM123.

SINCE 1859

GARDNER-DENVER



WB COMPRESSORS



GROUT PUMPS



AIR MOTORS



COMPRESSOR OUTFITS



TRAILER COMPRESSORS



CENTRIFUGAL PUMPS



RX COMPRESSORS



NA COMPRESSORS

THE QUALITY LEADER IN COMPRESSORS, PUMPS AND ROCK DRILLS
FOR CONSTRUCTION, MINING, PETROLEUM AND GENERAL INDUSTRY

Gardner-Denver Company, Quincy, Illinois

Western Branch offices: Butte, Mont.; Denver Colo.; Los Angeles, Calif.; Salt Lake City, Utah
San Francisco, Calif.; Seattle, Wash.; Wallace, Idaho; El Paso, Texas

See manufacturer's listing page 24H, Yellow Section

Engineers, Carpenters,
Concrete Men, Foremen,
Superintendents:

SOLVE ENGINEERING PROBLEMS ... at a Glance!

There is no time to waste these days on tedious figuring of routine problems! This fine, enlarged edition of CONSTRUCTION DESIGN CHARTS, by Consulting Engineer James R. Griffith gives countless engineering shortcuts—and answers preliminary design problems in a flash! There's a whole of value in this enlarged edition for every man engaged in construction today! This is the fourth reprinting of CONSTRUCTION DESIGN CHARTS, and greatly enlarged over all previous editions. Contains 100 design charts and 215 pages filled to the brim with valuable information that is a sure-fire hit with construction men. Handsomely bound in sturdy black Fabrikoid with gold stamped letters. A special metal binding allows each page to lie flat for easy reference.

YOU GET ALL THIS

How Nomographs
Are Constructed
Concrete Design
Concrete Form Design
Earthwork
Highway Design
Hydraulics
Structural Design
Timber Design
Compressed Air
Transmission
Measurement of
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Address.....

City.....State.....

Position.....Company.....

MANUFACTURERS

New customer finance plan

Schild Bantam Co., truck crane and excavator manufacturer, recently announced a special finance plan to help new customers buy or rent a Bantam machine. Known as the Schild Bantam-Heller finance plan, complete details are available through all distributors of the company's equipment.

F. R. Paris becomes
asst. sales mgr.

A. F. Woods, sales manager of the Marlow Pumps Division of Bell & Gossett Co., announces the appointment of F. R. Paris as assistant sales manager. In addition to assisting Woods with sales policy, Paris will directly supervise all Marlow Division district engineers west of the Mississippi. He has been with the company for the past five years, and is now located at the Longview, Texas, plant, which is his official headquarters.

Milton Smith is new
V.P.-genl. mgr. of Marion

The election of Milton T. Smith as vice president and general manager of Marion Power Shovel Co. was recently announced. He was named to a similar post with The Osgood Co., a subsidiary of Marion, and was elected a director of both companies. A veteran of long service in the power shovel industry, Smith previously was associated for 26 years with the Bucyrus-Erie Co., most recently as a vice president.

New B-E genl. sales mgr.

Lawrence E. MacDonald has been appointed general sales manager for Bucyrus-Erie Co., with responsibility for all domestic sales. MacDonald has served the excavator manufacturer for over 28 years.

J. D. Adams promotes Wallis

J. D. Adams Manufacturing Co. announces the appointment of Buel Wallis as general sales manager. A member of the Adams organization since 1929, he has served in company branches in various sections of the country. In 1946 he returned to the home office at Indianapolis as Eastern division manager.

AISC elects new prexy

Earle V. Grover of Los Angeles, president of Apex Steel Corp., Ltd., has been elected president of the American Institute of Steel Construction, Inc. Grover is the first West Coast man ever to be elected to this office. He succeeds John E. Jackson.

Sweeney becomes Wayne Crane
sales mgr.

Felix Sweeney has been appointed sales manager of the Wayne Crane Division, American Steel Dredge Co., Inc., Fort Wayne, Ind. Prior to this appointment, Sweeney was sales representative of the Eastern district, and before that represented Wayne Crane in the Midwest.

Heuser made Le Roi V. P.

Announcement of the appointment of Jack E. Heuser to the position of vice president in charge of sales was recently made by the Le Roi Company. He will be responsible for the organization and management of a newly created sales division which will sell and service all Le Roi products. Also recently announced is the appointment of Ray H. Rodolf as general manager of the compressor division, and Herschel V. Hiatt, general manager of the engine division.

C. F. Rogers heads
American Tractor sales

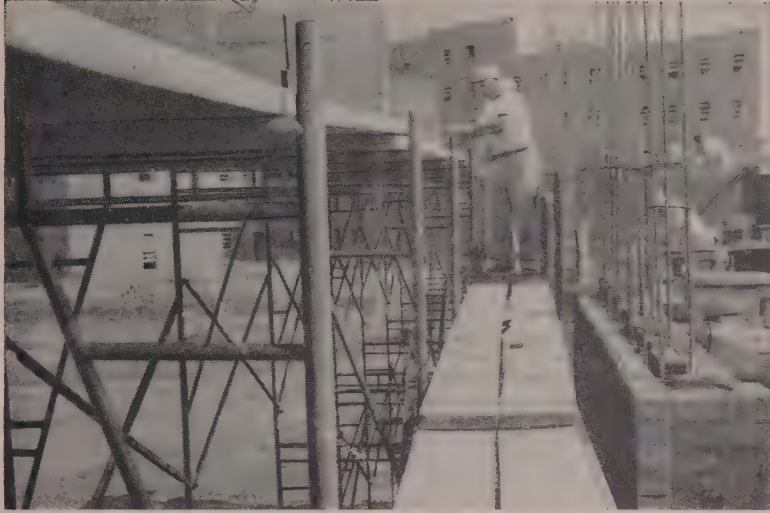
C. F. Rogers, former general sales manager for Lindsay Bros., Inc., has been chosen for the newly made ex-



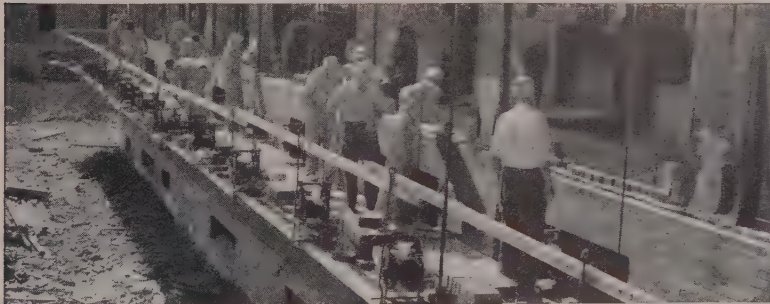
THE TIMKEN Roller Bearing Co.'s new Los Angeles quarters at 2727 South Flower St. The new office building and warehouse contains 7,000 sq. ft. of floor space. Four divisions of the Timken company have offices at this location. L. J. Halderman is service-sales branch manager; H. V. Fleming manages the industrial and automotive division, and S. R. Kallenbaugh the steel and tube division.

Scaffolding Methods . . .

by Patent Scaffolding Co.



BUILT-UP FOR MASONRY WORK, this "Trouble Saver"® Sectional Steel Scaffolding speeds construction on the new Veterans Administration Hospital, Sepulveda, Calif. 3000 of the 6'6"-high, 5'-wide "Trouble Saver" frames were rented and erected by general contractor Gust K. Newburg. 20"-wide sidewall brackets support the adjustable mason platform; put men within easy reach of materials. "Trouble Saver" Scaffolding, distributed by PS Co. on a rental or sale basis, is described in free Bulletin PSS-24.



HANGING SCAFFOLDS were used at the Bromley Park Housing Project, Roxbury, Mass., by general contractor M. S. Kelleher Co. 5 ft.-wide "Gold Medal"® Safety Scaffolding Machines provided a safe, unobstructed, adjustable working platform. 180 machines were used. "Gold Medal" Junior Safety Swinging Scaffolds are often used for washing down brickwork. For details on both types of Scaffolds, ask for Bulletins SS-1 and J-6.

THESE PRACTICAL EXAMPLES of PS Co. Scaffolding providing safe footing for construction workers are typical of PS service. No matter where the job is located, the *right* scaffolding is quickly available from Patent Scaffolding Co. Whether the job is simple and small or goes steeplehigh; involves uneven terrain or requires mobility, contractors can always rely on PS—the only complete line. It pays to remember—when it comes to scaffolding, come to PS.

FOR GREATER SAFETY...EFFICIENCY...ECONOMY



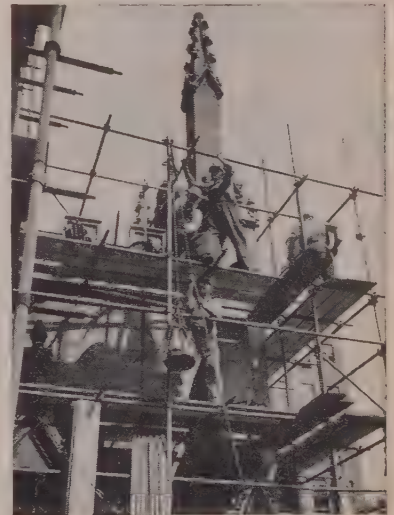
THE **PATENT** **S**CAFFOLDING CO., INC.

6931 Stanford Ave.
Los Angeles 1, Calif.

420 Eighth Ave.
Seattle 9, Wash.



ROLLING SCAFFOLDS ARE "DOLLAR SAVERS", according to J. B. Shamel of California Electric Construction Co., who used 25 of these "Trouble Saver" Rolling Scaffolds to expedite overhead installations at North American Aviation's El Segundo plant in California. For details on dozens of time saving uses, request free Bulletin PSS-14.



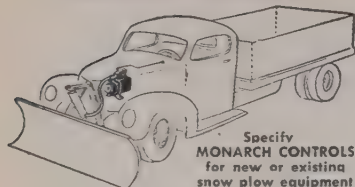
ENCLOSING A FAMOUS EDIFICE, these erectors are installing "TubeLox"® Scaffolding for repair work on New York's famous Grace Protestant Episcopal Church. 31,612 lineal ft. of tubing and 5,828 couplers were used. "TubeLox" Scaffolding can be built-up to almost any height, conforms to any contour. Ask for free Bulletin 10-PTS.

Builders Supply & Equipment Co., Bakersfield, Calif.; Squires-Belt Material Co., 12th and I Streets, San Diego 12, Calif.; Contractors Service Co., 221 W. Colorado Street, Las Vegas, Nev.; Sierra Machinery Co., Inc., 2211 S. 19th Avenue, Reno, Nev.; Honsen Lime & Stucco Co., 1574 S.W. Temple Street, Salt Lake City, Utah; Superior Equipment Co., 2221 S. 19th Ave., Phoenix, Ariz.; Contractors Equipment & Supply Co., 707 N. Broadway, Albuquerque, N. M.

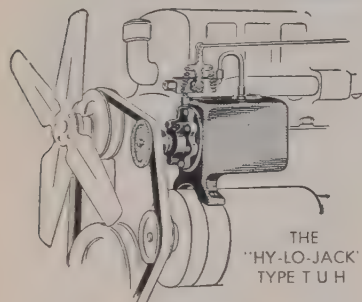
POWER HYDRAULICS

for

Snow Plows



Specify
MONARCH CONTROLS
for new or existing
snow plow equipment



THE
"HY-LO-JACK"
TYPE T U H

- Clutch operated models
- Thousands in use—
- 1000 lbs. Pressure, 1 gal. per minute
- Fit all trucks
- Fan belt driven
- Electric Models (6 or 12 Volt) also available

• Write Hydraulic Division
MONARCH ROAD MACH. CO.

1331 Michigan St., N.E.

GRAND RAPIDS 6, MICHIGAN

See listing page 37H, Yellow Section

ecutive position in the sales department of American Tractor Corp., where he will have the title of general sales manager, working directly with the company's president, M. B. Rojzman and D. A. Milligan, vice president.

Gar Wood ups Howerth

Gar Wood Industries, Wayne, Mich., has appointed H. J. Howerth product sales manager for its truck winches and cranes. With Gar Wood since 1946, he has been assistant sales manager of hydraulic hoists and dump bodies since 1953.

Tampo appoints new officers

Tampo Manufacturing Co., earth compacting equipment manufacturer since 1939, recently completed a reorganization of its executive structure by naming six employees to positions as officers of the company. Cleal Falke, formerly works manager, has been named vice president and general manager. G. T. (Gus) Worthington, Eastern district representative, was named sales manager. The other promotions were: Robert Samm, J. E. Keppler, J. D. Allbritton, and F. (Red) Hudson.

Harnischfeger Corporation

Harnischfeger Corporation has purchased the patent and manufacturing rights of the Sierra loader from the C and D Manufacturing Co.



SIGNING OF distributor agreement between Link-Belt Speeder Corp. and Totem Equipment Co., Seattle. Seated, l. to r.: R. B. Barnes, sales manager of Link-Belt; R. E. Vadnais, president of Totem Equipment Co. (formerly Seattle branch manager of Nelson Equipment Co.). Standing, l. to r.: Thomas Carstens, treasurer of Totem; and N. V. Chehak, Pacific Northwest representative of Link-Belt. Totem Equipment Co. operates at 3706 Airportway, Seattle, former location of the recently sold branch of the Nelson Equipment Co. of Portland.

of Sacramento, Calif., thus adding further diversification to the P&H construction equipment. The sales of the loader will be handled by the P&H Power Crane and Shovel Division. Until recently the name of this division was the Small Excavator Division. Another name change concerns the division in charge of all electric machine sales. The official designation is now the P&H Electric Shovel Division.

Lindquist elected v.p.

A. G. Lindquist, secretary and comptroller of Gardner-Denver Co., a leading manufacturer of equipment for the construction industry, as well as oil, mining and allied industries, has been elected vice president of the company.

Armco expansion

First step in the proposed expansion of its activities in the field of prefabricated steel buildings has been announced by Armco Drainage and Metal Products, Inc. It involves the organization of a new department to handle expansion of Armco's line of buildings and building products. D. H. Malcolm will head this new department.

C.I.T. offers new financing

C.I.T. Corporation announces a new financing system whereby it is possible for buyers of construction equipment to pay for a machine at substantially the same rate the machine can now be depreciated under the new tax law. Under this new program, C.I.T. stretches out its terms to a period of six years on construction equipment to more nearly match the useful lives of the machinery.

WISCONSIN- POWERED BONDACTOR

"Shoots On" Gunnable Aggregates



"Gunning" sand or cement are but two of the jobs handled by the "Bondactor", built by Air Placement Equipment Co., Kansas City, Mo. This unit also applies "gun-type" insulating concretes, blended fire clays and many other materials. Power is supplied by a Wisconsin Heavy-Duty Air-Cooled Engine.

Equipment builders and users know that on jobs calling for variable load lugging power, Wisconsin Engines deliver heavy-duty dependability. For example, when sudden shock-loads slow down the engine and the torque increases, your Wisconsin Engine has the lugging power that hangs on . . . pulling through without loss of efficiency or stalling. Wisconsin Engines also have the steady-going ability to deliver continuous, constant-load heavy-duty service. You get power that matches up with any machine, any job, 3 to 36 hp.

Write today for new 64-page catalog with action pictures and details covering all Wisconsin 4 cycle single-cylinder, 2-cylinder and V-type 4-cylinder models, 3 to 36 hp. Specify "WISCONSIN Power" for your equipment.



WISCONSIN MOTOR CORPORATION

World's Largest Builders of Heavy-Duty Air-Cooled Engines

MILWAUKEE 46, WISCONSIN

See manufacturer's listing page 53H, Yellow Section

Space is sold as advertisers' inches. All advertisements in this section are 1/8 in. short of contracted space to allow for borders and composition.

CLASSIFIED

Rates are \$.50 a column inch. Copy should be sent in by the 20th of preceding month if proofs are required; by the 23rd if no proofs are required.

WANTED...

PILE & PIER HOLE DRILLING

10 in. to 10 ft. in diameter
Serving All Western States
New Fast Heavy Duty Drill Rigs

KENNEDY & SMITH
BAKERSFIELD, CALIFORNIA
2921 Edison Highway
Phone FAIRVIEW 33836

TRAINING

Engineers—Foremen—Office Men
Learn latest methods to organize and run work. Prepare for the top jobs. Send post card for details.

Geo. E. Deatherage & Son
CONSTRUCTION CONSULTANTS
411 So. 5th Ave. Lake Worth, Florida

FOR SALE

FOR SALE STEEL SHEET PILING

NEAR BREWSTER, WASHINGTON

| | Shipped New | Used | Only One Job | |
|-----------|-------------|--------|--------------|------|
| Carnegie | MP-101 | MP-102 | | Tees |
| Length | Pcs. | Pcs. | | Pcs. |
| 72-65 ft. | 105 | 100 | | 2 |
| 65-60 ft. | 210 | 50 | | 9 |
| 60-50 ft. | 210 | 5 | | 18 |
| 50-45 ft. | 290 | 2 | | 7 |
| 45-40 ft. | 120 | 1 | | 13 |

Also quantity 35 ft. and shorter—Quick Ship-ment Regardless of job, location. Write, Wire or Phone.

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EQUIPMENT CO.**

511 Locust St., St. Louis 1, Mo., CHestnut 4474

FOR SALE

READY-MIX CONCRETE CO., W. C. Oregon.
No. 21036-A, FORB, 6425 Hollywood Blvd., Los Angeles 28, Calif.

FOR SALE

LOW COST INSTALLATION AND OPERATION

CABLEWAYS
IMMEDIATE SHIPMENT
ELECTRIC, STEAM OR DIESEL
CAPACITY 3 TO 20 TONS
SELL, RENT OR BUY

FOR DAMS, BRIDGES, BREAKWATERS, FILTRATION AND SEWERAGE PLANTS

FOR SPEED, ECONOMY, EFFICIENCY, FLOOD SAFETY, LABOR REDUCTION

AMBURSEN DAM CO. INC.
295 MADISON AVE. NEW YORK

USE "CLASSIFIEDS"

FOR RENT

SOLD RENTED REPAIRED

Transits • Levels
Steel Tapes • Compasses

Portland Instrument Co.
334 S.W. 5th nr. Stark
PORTLAND 4, ORE., AT 3598



Trade in
Your Old Cores

FLASH!! DO YOU KNOW

We Manufacture New
ROTARY SWEEPER CORES

Most Any Popular Make To Fit

MEILI — BLUMBERG — GRACE — HOUGH — LULL
ROSCO — LITTLEFORD — DETROIT HARVESTER —
SPEARSWELL and Others — Send Your Specs

REFILLS — SPECIALISTS

WITH SPRING STEEL
WIRES AND FIBRES

REPAIRS—ANY MAKE SIZE OR TYPE—24 HR. SERVICE

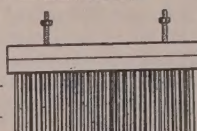
PECKERWOOD STEEL WIRE DRAGS

LARGE

6" Wide—Any Length
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Drags Not Staple
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3" wide—15" Long
Now \$2.50 ea.

Prices Subject to
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Buy in Lengths
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In Any Shape Desired.

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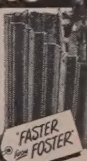
NAME YOURS
No frame required

VAN BRUSH MFG. CO., INC.
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1928

RENT STEEL SHEET PILING

Get the exact lengths and sections you need from Foster—all standard makes, delivered on time—and at Foster's standard low rental rates. Also Rental Pile Hammers & Extractors.



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BACKFILL, uncompacted

We'll be there with (sleigh) bells on!

While we were busy putting this issue of the magazine together, just before Christmas, an unusual sort of office memorandum came our way from the circulation department:

"Santa Claus will be carrying copies of **Western Construction** in his sleigh this year, as usual. Subscriptions for Christmas gifts have been coming to the office with their accustomed December regularity.

"The copies are rushed to the North Pole, along with an appropriate greeting card, in time for Santa's southbound flight. The remaining monthly copies of each subscription will be delivered to the

lucky readers by postman. Santa has a special arrangement with the post office department."

Reminds us of the time a couple of years ago when Santa himself took out a subscription. Or one of his helpers. We were sending the magazine to a fellow at the North Pole (Alaska).

It happens to the best of them

When is a bargain not a bargain? One time is when Peter Kiewit and Morrison - Knudsen leave over \$2,400,000 on the table at a bid opening—and then discover that about \$1,000,000 of it is their own neglected estimate of indirect costs for overhead.

This happened last month when bids were called for Stage 2 of the Garrison Dam spillway stilling basin. Kiewit and M-K were low at \$6,159,006, and the closest competition was \$8,493,701. The Army's estimate, figured without profit, was \$7,666,195.

Shortly after the opening PK-MK entered a protest on their own bid. As a result, it was decided to reject all bids and call for another bid opening, on February 1. The situation was a tough one to face, for both engineer and bidders. But there was only one way out. Any other decision would have led to a very bad bargain indeed.

Echoes of Echo Park

Hydro construction in Switzerland has recently been a source of argument along the same line that has contributed to the current stall of reclamation construction in our own Upper Colorado Basin.

According to the Associated Press, a Rhine River project was seen as a threat to scenery, and in particular to the height of a famous waterfall. Under construction since 1952, the \$23,000,000 project was open to demolition by referendum. A 50,000 signature petition set up a special referendum election early in December.

The proposal was beaten, 503,791 to 229,324. Construction continues.

Getting down to earth

"Random Samples," newsletter of the materials and research section of the California Division of Highways, has just perpetuated the definition of an engineering specialist. This time the fancy words have been applied to a soil technician. He is one who makes "predictions as to the future dispersement of any change in Mother Nature's well-placed terra firma; calculated with micrometric

Correction

Credit should be given where credit is due. In actuality, about 90% of the concrete buckets mentioned last month (and pictured) in use by Merritt-Chapman & Scott Corp. and The Savin Construction Corp. at Folsom Dam, were manufactured by the Blaw-Knox Co. This error was brought to our attention by J. P. Cullen of the latter company who had made some interesting observations about the project from his own field trip there.

The contractor used 20 of their 4-cu. yd., air-operated buckets on the large mass pours. It is claimed that a dumping time of only 4 sec. is required from the time the air hose is connected, a 4-cu. yd. load dumped, and the hose disconnected. To verify this fast action, Cullen spent over 1½ hr. timing a typical operation. Furthermore, the cantilever forms used to hold this rapidly placed concrete in the gravity monoliths were also manufactured by the Blaw-Knox Co.

To err is human. We are glad to have our readers correct us when we do.

precision from extremely vague assumptions which are based on debatable figures acquired from inconclusive tests and incomplete experiments carried out with problematical accuracy by persons of doubtful reliability and rather dubious mentality, all with the particular anticipation of disconcerting and annoying a group of hopelessly visionary fanatics described as Resident Engineers."

NEXT MONTH

ESTIMATING... Dollar signs may be the end result, but there has to be a solid basis for separating, itemizing, and controlling the sources of construction costs. Something of what it takes to be a good estimator is laid out next month in an article by W. Earle Roche, construction consultant.

"MINER"... The word takes on new meaning when you see the rig dreamed up by Mitty Constructors for tunnel driving at Oahe Dam. A boring machine, a variation on the continuous miners of the modern coal industry, is chewing its way through Pierre shale at more than 6 ft. per hr. Here's a story with teeth in it.

...The Editors

Twenty-five years ago in *Western Construction*

"This issue is largely devoted to forecasts of engineering construction for 1930 in the far west. Seventy-five of the major projects of \$500,000 and over total more than \$1,000,000,000, most of which will be well under way during the year. No engineer or contractor should suffer from shortage of work."

* * *

"Raymond Harsch, materials engineer for the Idaho Department of Public Works, has resigned to become office engineer for an oil company in San Francisco."

* * *

"The article on the **Salt Water Barrier** in this issue again serves to focus attention on this much discussed and long deferred water conservation project. Its status remains, as for fifty years, considerably in the realm of academic discussion. It is an example of the lack of understanding which has characterized the development and conservation of water resources in northern California."

* * *

"The **Oregon State Highway Commission** recently completed a 3.81-mi. section of The Dalles-California highway, beginning at the city limits of Klamath Falls and ending at a junction with the Lakeview highway... This was the first concrete paving contract let in Klamath County by the State of Oregon."

Ingenuity off to a fast start in '55

"Goes like hell!" is the way F. K. Mittry puts it, speaking of the new machine his firm has had built for soft-rock tunneling at Oahe Dam.

"Goes like hell!" is the way we're pleased to put it too, as we lead off this issue of **Western Construction** with a review of Mittry's mole.

But the enthusiastic phrase applies to more than one job or one article. It's a good keynote to the tempo of construction for 1955. You read about it round-up fashion last month. Now you can follow construction as we stay with it editorially, interpreting the best in construction methods throughout the West for the rest of the year.

Mittry's machine is just one example. A county engineer in Washington has a pretty handy new approach to culvert work — page 18. And San Diego's new marine cargo transit shed gives a good account of itself in the final dollars-and-cents judgment laid against any engineered structure. See page 45. Highway analyses are a special field of engineering where—now more than ever—new methods can be expected to pay off. Colorado's roadway plans engineer lays it all out, beginning on page 27.

And talk about precision! Just turn to page 33 and you'll see how care and imagination by engineers and contractor on a bridge job mean usefully combining 13 tons of structural steel with 18 ounces of copper.

Inspection of field welding

Structural welding's biggest potential field, buildings and bridges, has been the slowest to accept it. And all the designers' doubts inevitably come down to a single word: inspection. But why should this recognized necessity in all types of engineered construction be considered a millstone when tied to the particular field of welding? Perhaps the answer lies in the pattern of development of welding, as compared to the development of other structural materials and connections.

Take steel itself. The material is factory-produced under controlled conditions that assure a consistent product. Indeed, methods of connection constitute the only area for doubt. Riveting and bolting are inherently more tangible than welding. They are older methods. And whether shop- or field-executed, they can almost literally "stand up and be counted."

Another construction material, concrete, began as a highly individualized thing, designed separately for every job, produced separately at every job. In a sense, every application represented a new start, with new personnel and new production facilities—and with a consequently renewed need for thorough inspection.

But concrete in recent years has evolved. Central ready-mix plants have sprung up, enabling the production of a consistent material, industrial assembly line style. The ready-mix plant, like the steel mill, depends for success on one end product. And outside inspection becomes somewhat less necessary.

Even as factory-produced steel and concrete need less inspection, so does factory-produced welding. And such welding has been the rule—up to now. Welding began as a shop method. And those most familiar with it know it as a production item.

But today, while concrete has moved from the field to the shop (from more inspection to less), welding is going from the shop out into the field. And, logically enough, inspection needs are increasing in this direction.

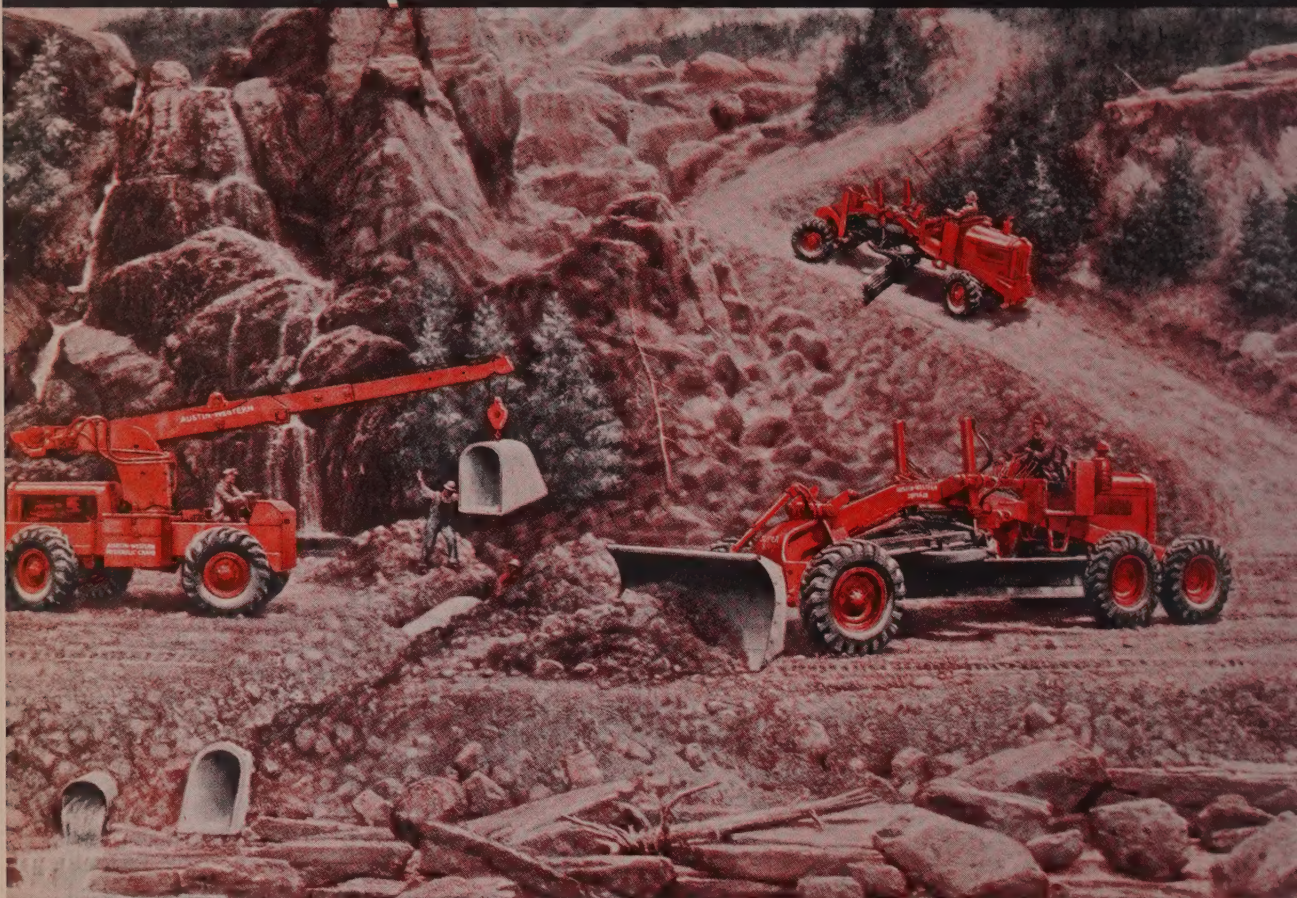
Structural engineers' doubts about welding are not a matter of how a well-executed weld will perform. Their doubts center in whether it will be a good weld in the first place, and how to be sure. They may not know welding, but they do know field construction conditions.

Welding men know production welding, but they don't appear to recognize uncontrollable field conditions. They are in the difficult position of needing to admit occasionally that their product won't work—not because of inherent end-product unsuitability, but because of uncontrollable "manufacturing" conditions in the field.

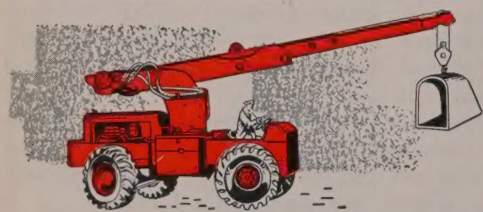
This is why, in the eyes of welding men, structural engineers have tied a millstone of inspection requirements on welding. And the welding men can do no better than take the stone in hand and carry it, to keep it off their necks!

**THIS JOB...
THAT JOB...
YOUR JOB...**

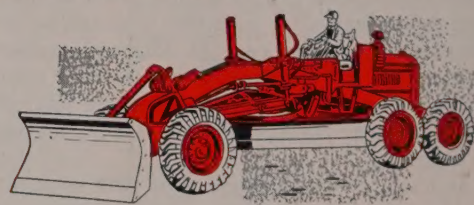
A-W EQUIPMENT GETS IT DONE



Whatever the problem . . . whatever the job . . . those pictured above, or dozens of others, you can do it better with Austin-Western Power Graders, and the new tractor- and truck-mounted Hydraulic Cranes.



It's the LIVE BOOM that puts the A-W Hydraulic Crane out front in the performance parade . . . live power with instant response for all boom movements . . . extending and retracting, raising and lowering, and rotating. Fingertip hydraulic control handles delicate spotting jobs with superb precision. No other mobile crane has a boom so completely "alive" . . . no other outdoor-indoor crane will handle so many jobs, so well.



All-Wheel Drive provides 30% more Power-at-the-Bla . . . keeps the front end of the grader under control at all times. All-Wheel Steer makes the grader twice as maneuverable. All-Wheel Steer shifts the rear truck from side to side, for better tracking and smoother operation. The tougher the job, the more outstanding the performance of A-W "88" and "99" Power Graders in comparison with front steer, rear drive machines.

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