National Capital MIN CARTER FIR

Washington, — Holding back a threatened epidemic of strikes until union labor leaders can got what they want in Washington in the way of legislation is proving a difficult task for William Green, prescult task for William Green, pr dent of the American Federation of Labor, and his lieutenants. In At-ron the rubber company employees are chafing at the bit. So it is in dred other lines.

John L. Lewis, president of th United Mine Workers, has less difficuity with his union. He wants, as Green does, to hold back the strikes, but he set the obvious goal of June 16, which is the date the law creat-

ing NRA expires.
Green, Lewis and all their friends here have the same object. If the administration proves too lukewarm on the things they want, they can lay the pending strike situation on the White House doorstep. President Roosevelt will then be faced with the apparent alternative of giving in, or of precipitating so many strikes that a terrific blow

will be dealt returning prosperity. The importance of this to the President can be realized only by examining the political prospects. Next year the President, all of the house, and a third of the senate come up for re-election. In short, the New Deal goes on trial before the country. Already there is the serious threat of a third party. growing out of the doctrines being preached over the radio by Huey Long, Father Coughlin, etc. The ident is perfectly familiar with this, but relies on attracting enough ervatives to his own support to win, and win easily,

But attracting these conservatives is a precarious undertaking. The old line Republicans do not think he can do it. That is why they have been sprucing up lately. The only question to date has been: will the radicals scare the conservatives enough to turn them to Roosevelt for safety?

One answer to this question is not unless Roosevelt shows the country that he is really leading it back to prosperity. Otherwise the conservatives would not put their trust in him, but would rely on voting for some Republican. Which would mean that the radicals, withdrawing so much of Roosevelt's support, would seriously jeopardize sevelt's chances.

Economic Menace

So that the threat of a strike epidemic is more than an economic menace. It is a political buga-boo of darkest shade. And no one better than F. D. R. appreciates it. Which explains why shrewd obervers in Washington are not writing off the Wagner labor relations bill as sure to die-why they are not certain the 30-hour week bill will not be compromised (say at 36 or 38 hours), and why there is so much uncertainty about NRA.

Union labor officials would rather have the Wagner bill than a continuance of NRA Down in their hearts, but most confidentially, they would far rather have the Wagner bill than the 30-hour week-even

The answer to both is simple. but you cannot confirm the second in public. As to preferring the Wagner bill to NRA, the Wagner bill would be permanent legislation. As to preferring it to the 30hour week, the Wagner measure leaves more to be done by union officials, whereas the 30-hour week leaves less appeal to unorganized workers to join labor unions and begin paying dues.

NRA and the 30-hour week together move directly toward an ultimate goal which would sharply curtail the power, influence, need for perquisites of union labor leaders. The government would step in and perform most of their functions. It would gain for the workers what the unions now have to fight with private industry to attain. And union labor leaders are very human. They like their jobs and their power and want to keep

Hits Export Trade

Great Britain's highly successful drive to compel Poland and other European countries to buy more British goods, if Britain is going to continue buying theirs, has played hob with prospects for American export trade. So has Italy's setting up of an "Amtorg"—called the National Institute for Foreign Trade-which is to handle all imports and exports for that country.

This government will beyond ubt denounce its commercial treaties with Italy, Portugal, Denmark and Poland in the near future. Secretary of State Cordell Hull, father of reciprocal trade agreements as a means of lowering economic barriers, has been rejuctantly forced to this position. The action would have been taken already had it not been for the delicate situation in Europe caused by the war talk. There is no real hope that any negotiations short of the strong arm methods of freaty demunication will lead to results.

One of the effects of diacriminations against American goods in Eulope has been to boost the stock of Gaurge N. Peak, who stands for barter as the only effective way of reaties with Italy, Portugal, Den-

rotem, which will cut au

But this does not hurt General fotors, or Ford, anything like as such. Both have factories in Euroean countries, which are not burt

American Labor Loses

But every General Motors car sold in most European countries, instead of a Chrysler, deprives American workmen of just so much labor. For example, in its factory in Belgium, General Motors, building the Opel car, uses European made motors and European made tires. Whereas the Chrysler plant in Antwerp is really more a warehouse than a factory. All American parts are used. are used.

Moreover, the purchase of Euro-pean made parts is not all. The reciprocal treaty with Belgium pro-vides for a much greater reduction vides for a much greater reduction in the tariff on parts than the tariff on cars.

But the Italian situation is even more serious. Within a few weeks her new restrictions will bar all American wheat and tobacco, and will limit to 25 per cent of 1934 figures imports of American autos. The restriction to one-fourth of last year's imports applies to 200 differ

On Italy's part this is at once at attempt to adjust her long endur-ing unfavorable balance of trade, and an attempt to stimulate domestic production. But even 1934 exports from America to Italy were not big. They represented a very lean year for most American exporters. The restriction on cotton is expected to have repercussions all through the South. Meanwhile Italy hopes either to increase the output of her Flat and other auto ican manufacturers of cars to es tablish branch factories in Italy. Either of which would provide work

Wheat is in a different category. Formerly the United States shipped about 80,000,000 bushels of wheat year to Italy. With the boosting of the tariff on wheat to protect American farmers from hard Canadian wheat, Canada simply took over this market.

er than those of the George Washington bridge across the Hudson river.

In either case it is impossible to talk about these bridges without dealing in superistives, for each has in one way or another exceeded all previous records as to size and, taken together, the two projects establish a record which probably will not be exceeded for centuries. They are man-made marvels on a scale so colossal as almost to dely description. The statistics alone are imposing enough but to make them understandable to anyone who is not an engineer it is necessary to give some such comparison as these:

ualize 18,500 tons of cable wires. But if you're told that the cable wire used in the bridge is long enough, if laid end to end, to encircle the

earth nearly three times you'll get some idea of how much wire is going into that bridge. And the cable wire is only a small part of the metal that's being used. The structural steel, reinforc-

will take 6.7 per cent of the entire steel output of the United States in the year 1933.

You've seen 60-story skyscrapers? Well, each individual tower of the bridge, standing more than 700 feet high from the base of its pier on

the floor of the bay to its tip, represents a con-struction job the equivalent of such a sky-

So much for the San Francisco-Oakland Bay bridge. Now for some comparative figures on the colossus which will span the famous Golden Gate through which rushed the gold-mad argo-

It's not nearly so long as the other one but

because it's the world's largest suspension bridge, they had to do a lot of digging and building to support the tremendous weight of its 4,200-foot (that's more than three-quarters of a mile, you

walk all the way from San Francisco to New York, for it would be five feet wide and 3,186

You've been on top of a 22-story building?

as these:

scraper.

nauta of 1849.

Annoys White House

White House irritation against the radio companies, for permitting Huey Long to get so much free time, is growing pretty bot. But it is not easy to make the case. To put it clearly and simply would lay the White House open to a charge of attempted censorship, and give Senator Schall of Minnesota more to talk about. That was irritating enough at the time.

But the fact is that Huey's attacks have been annoying the addown, more than any other one thing. It is not really the immediate political prospect of a third party, at all. It is just plain annoyance.

The political situation, from the administration standpoint, is fine. If Huey succeeds in stirring up a radical third party, the Preside moving slightly to the right, will simply annex what is left of the old Republican party's conservative wing. Roosevelt's re-election would be as sure as was Hoover's defeat last time, or more accurately, as Taft's defeat was in 1912.

Moreover, the Republicans have Moreover, the Republicans have played the Husy Long-Father Coughlin game. They have been hoping these malcontents would get somewhere. They have thought that only in a split of the President's following could any Republican have a chance. But a radical Democratic ocrat, garnering Democratic votes here and there, would or at least might elect a Republican.

This phase of it was all right with the White House.

Too Much Free Time

Now what burns up the adminis tration is that Long has been get-ting most of his time over the radio for nothing. The radio companies do not like this. They are very uneasy about it. They know that both Long and Father Coughlin are tre-

Long and Father Coughlin are tremendous drawing cards over the
radio. But they do not like the
idea of giving away time to some
one who will produce irritation at
the White House. It may spell
trouble for them in other ways.
They would much prefer to cut
them off altogether.

But they had agreed, some time
back, to give a certain amount of
time to discussions of public questions, on the theory that such use
of radio time was educational, in
the best interest of the country, and
a generous contribution by a prosperous business to general welfare.
They did not originate this attitude. It was virtually forced on
them. Partly by the radio commisalon and partly by squators and
members of the bone.

Countries.

rld's Greatest Brid By ELMO SCOTT WATSON UP in California American enterprise, American daring and American engineering and construction skill are moving forward toward new triumph which will reach it culmination in January, 1987, when the greatest bridge in the whole world will be thrown open to traffic To be strictly accurate, one should say "the two greatest bridges it the world," for there are two projects under way at the same time it the San Francisco bay region and each has certain characteristics which make them pre-eminent among such man-made structures. It all depends upon what one means by "greatest." If by "greatest" you mean "largest" and "long est," then it's the San Francisco-Oakiand Bay bridge you'll be talking about. It will be eight and one-fourth miles long, almost three times as long as the present world's largest and longest bridge, that over the Firth of Forth in Scotland. If by "greatest" you mean the "longest suspension bridge" and the "highest hidge," then you'll be talking about the Golden Gate bridge the 4,200-foot length of whose main span makes it the world's outstanding suspension bridge and whose 750-foot towers make them the highest and largest bridge towers ever erected, 150 feet higher than those of the George Washington bridge across the Hudson river. In either case it is impossible to talk about By ELMO SCOTT WATSON 1, Aerial photograph of San Francisco bay with architect's drawing of the San Francisco-Oak-ad Bay bridge drawn to scale upon it. San rancisco is in the foreground, Yerba Buena is-ad in the center to the left and Oakland in the

Ground.

Construction work on the Golden Gate. Looking from Toll Plaza north (Sameleco elde) this picture shower construction yions 8-1 and 8-2; south pier and fender was pleted 1,125 feet from the shore at Fort point Francisco tower construction, now 250 fees the water with about 8,000 tons of steel in ion and 38 per cent completed. Across there of the Golden Gate can be seen the committee of the Golden Gate can be seen the committee of the county. The hills in the background belong to a county. This tower is located at Lime

The Golden Gate bridge as It will look when empleted in 1937. San Francisco and the metro-olitan area in the background.

4. The last leg on the Marin tower, looking up a its great height of 750 feet. The steel supports t its side are for sidewalks which will be 250 out above the water.

In building the San Francisco-Oakland Bay bridge they are using 30,000,000 board feet of lumber. Do you know how much that is? Well, it's enough to build 3,000 five-room houses, or all the houses in a town of 15,000 people.

Have you ever seen the city hall in Los Angeles, or the Russ building in San Francisco or the L. C. Smith building in Seattle? The concrete and steel in this bridge would make 85 such buildings as any of those three.

It would probably be difficult for you to visualize 18,500 tons of cable wires. But if you're

fludson. It is a combination suspension bridge between Bincon hill in San Francisco and Yerba Buena island out in the middle of the bay and a cantilever bridge between the island and Oakland. Yerba Buena island will be crossed through the largest vehicular tunnel in the world, the bore being 76 feet wide and 58 feet high.

The Bay bridge proper, including the island crossing, will be approximately four and one half miles long but its total length from the end of the western approach to the end of the eastern approach will be eight and one-fourth miles long. The bridge will be a double-deck structure with six lanes of automobile traffic on the upper deck and three lanes of trucks, plus two interurban tracks on the lower deck.

The building of this bridge involved some of the most difficult engineering problems ever at-

out difficult engineering problems ever attempted by man. Never before has a bridge been reared above piers which were sunk by the caisson method from the surface of the water down through both mud and water to rock bottom, sight unseen. Never before have suspension towers reared themselves ("lifted by their own boot-straps," one might say) until their own boot-straps," one might say) until their hollow steel frames rose 505 feet above the water and their concrete bases sank in some cases 235 feet below water level.

No other bridge yet built has called for so bulent because of the seven-mile-an-hour tide bulent because of the seven-mile-an-hour tide

know!) span.

Imagine a tunnel 10 feet high, 10 feet wide and 26 miles long. That was the total excavation for the Golden Gate bridge.

If all the cement that will be used in it were to be delivered in barrels in the old-fashioned way and these barrels were stacked one on top of another, they would make a pile 110 miles high. Or, to put it another way, if all this concrete were used to lay a sidewalk you and two of your friends could walk abreast on that sidewalk all the way from San Francisco to New Miles long.

You've been on top of a 22-story building? Remember how small the people looked on the street down below? If you drive your automobile across the Golden Gate bridge in 1987 and look down at the people in the boat passing under the bridge, they'll look just as small.

And speaking of automobiles—over the six-lane roadway of the bridge there could pass a string of automobiles reaching from the Oregon line to the Mexican border and moving at the rate of 22 miles an hour. (Sounds like a good place for a Sunday afternoon drive if you want to avoid traffic congestion, doesn't lit?

And no matter how many automobiles were on the bridge at one time, there's not much danger of the two calless which support it breaking and letting you drop down into the water below. You see, each one is 36½ inches in diameter and weight 11,500 tous. There are 27,572 separate wires in each one and if all the wires were isid end to end they would reach 60,000 miles—well over three times around the world. Yes, the Golden Gate bridge is LARGE and so is the Ean Francisco-Oakland Bay bridge. In fact, the latter is composed of two enormous structures each longer than New York city's scide, the George Washlestod bridge across the

between San Francisco and Yerba Buena which had been deemed impossible. So the engineers decided upon two suspension spans in tandem, anchored in the middle of the bay to a gigantic plet. It is 197 feet long (nearly 66 yards) by 192 feet wide and rises 508 feet from the rock bottom of the bay, nearly twice as large as the biggest skyscraper in San Francisco. Since the two spans are anchored to this, they actually pull against each other. The San Francisco anchorate in the same of content of the same francisco anchorate. nge is a huge mass of concrete containing 00 cubic gards of cement.

In spinning the cables the entire 70,000 miles of cable are pulled in place by shuttle wheels which run over the towers all the way from San Francisco to the concrete center anchorage on the west suspension bridge and from the center anchorage to Yerba Buens on the east suspension bridge. Spinning the cables is by far the most protracted job on the bridge and will require a warr. Each place of wire in the far the most protracted job on the bridge and will require a year. Each piece of wire in the cable is approximately two miles long. A total of 34,968 strands must be drawn over the sus-pension towers. Each cable will exert a pull of 38,000,000 pounds against its anchorage in San

Just as the building of the Bay bridge pre-sents knotty problems to be solved, so does the building of the Golden Gate bridge bring up difficulties never before encountered in such work.

son towers rearred themselves ("littled by their own bootstraps," one might say) until their own bootstraps," one might say) until their hollow steel frames rose 505 feet show the water and their concrete bases sank in some cases and the belief for more than half a century that lack of adequate foundations in the bay for piers, as well as the impossibility of stretching a span trend bedy from being bridged. But in 1979 a satis engineers, revealed a high ridge of bed rock extending between San Francisco and the instand which would provide a foundation at highes levels than surrounding bedrock and make a practicable route. The water along this instand which would provide a foundation at highes levels than surrounding bedrock and make a practicable route. The water along this instand which would provide a foundation of the problem was the work lies from 100 to 200 feet below the mud on the bottom of the bay.

So the meet serious problem was the work below the water level and the building of the dress and called who work in pressure chambers to clear sawy the mud to the rock bottom, could not be used. The obtion of the grobin was in a compressed six-foctation calason method while sock in pressure chambers to delay days of the conduction of most construct their plens from the surface of the water of the bridge buildiers for the first times of the proposal contract compressed air-foctation calason method while backets instead of men to de the excavating.

Beth crimen constitute of custom contract of the pressure contract compressed air-foctation calason to since the contract of the pier when the contract compressed air-foctation contract and the buildiers for the first times of the contract contract contract contra

elled with oxygen.

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