Number of muckers per shift: 4 or 5.	Tunnel 17, Length 3,024 Feet.
Number of mucking shifts per day: Usually 2.	Cost per
Type of haulage: Electric after the first 400 to	foot of
500 feet.	tunnel.
Wages: Drillers and helpers \$3, muckers \$2.50,	Excavation\$20.47
blacksmiths \$4, helpers \$2.50, motormen \$2.75, dumpmen \$2.50.	Engineering
φ2.50.	Permanent equipment 2.25
Tunnel 12, Length 4,900 Feet.	Timbering (142 feet)
(Through hard granite at an average speed of 185 feet	
per month.)	\$23.15
Cost per	Tunnel 17½ for 1,345 Feet.
foot of	(Through medium-hard to hard granite at an average
tunnel	speed of 225 feet per month.)
Excavation \$22 10	Cost per
Zingineering	foot of
and the first equipment	tunnel.
Timbering (90 feet)	Excavation\$19.56
	Engineering
\$24.75	Permanent equipment 2.25
Tunnel 13 for 1,525 Feet.	\$22.12
(Through hard granite at an average speed of 130 feet	Tunnel 17A for 3,275 Feet.
per month.)	Cost per
Cost per	foot of
foot of	tunnel.
Excavation tunnel.	Excavation
Excavation	Engineering
Engineering	Permanent equipment 2.25
	Timbering (441 feet) 1.18
Adit proportion	
	\$22.30
\$23.32	Tunnel 17B for 4,915 Feet.
Tunnel 14, Length 859 Feet.	Cost per
Cost per	foot of
foot of	tunnel.
	Excavation\$21.09
Excavation	Engineering
	Permanent equipment 2.25
	Timbering (163 feet) 1.90
Adit proportion	
Timbering (22 feet)	\$25.45
도 있습니다. (1915년 1일 전환 12 m.) 보이는 12 m.) 보고 있는 12 m.) 보고 있는 12 m.) 보고 있는 12 m.) (1915년 12 m.) (1915년 12 m.) (1916	
\$25.96	ELIZABETH DIVISION, ELIZABETH LAKE TUNNEL.
Tunnel 15, Length 895 Feet.	Location: Los Angeles County, Cal.
Cost per	Purpose: Water supply, power and irrigation.
foot of	Cross-section: Rectangular, with arched roof.
	Size: 12 by 12 feet.
CXCavation	Length: 26,870 feet.
Engineering	Type of power: Electric power purchased from aque-
Permanent equipment	duct plant.
Adit proportion 2.25	Ventilator: Pressure blower.
	Size of ventilating pipe: 18 inches.
\$28.06	Drills: Pneumatic hammer, 3 in the south heading
m 110 Y 21 0 700 T	and 2 in the north.
Tunnel 16, Length 2,723 Feet.	Mounting of drills: Horizontal bar.
(Through hard granite at an average speed of 145 feet	Number of holes per round: 25 in the south heading,
per month.)	16 in the north heading.
Cost per	Average depth of round: 8 to 10 feet.
foot of	Number of drillers and helpers per shift: 2 drillers
Evoc. tunnel.	and 2 helpers at the north end, 3 drillers and 3 helpers at
Excavation\$20.07	the south end.
Engineering	Number of drill shifts per day: 3.
Permanent equipment	Explosive: 40 per cent. and 60 per cent. gelatine
Adit proportion	dynamite.
Timbering (18 feet)	Number of muckers per shift: 6.
	Number of mucking shifts per day: 3.
\$23.08	Type of haulage: Electric.