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DEPARTMENT OF
PUBLIC WORKS

TRANSPORTATION DIVISION

CITY OF SACRAMENTO
RECEIVED
JUN 23 1988

CITY HALL
ROOM 304
915 I STREET
SACRAMENTO, CA
95814-2608

June 28, 1988

916-449-5307

City Council
Sacramento, California

APPROVED
BY THE CITY COUNCIL

ROBERT L. LEE
TRANSPORTATION
DIVISION MANAGER

Honorable Members in Session:

JUN 28 1988

OFFICE OF THE
CITY CLERK

SUBJECT: Establishment and Modification of Capital Improvement Projects and Transfer of Funds from the Miscellaneous Minor Improvements and Miscellaneous Traffic Signal Modification Accounts

SUMMARY

Staff is proposing that new Capital Improvement Projects be established for Driveway Traffic Signal Upgrades, Pedestrian and Warning Signal Improvements, Loop Detector Replacement and Traffic Signal Controller and Cabinet Replacement, that the San Juan & Northgate traffic signal be augmented for additional work and that the Franklin Boulevard and Valley Hi Traffic Signal Project be expanded to include a traffic signal at Meadow Park Way and Valley Hi Drive. It is further proposed that \$161,542 be transferred from the Miscellaneous Minor Improvements and Miscellaneous Traffic Signal Modifications accounts to the projects. This item was heard before the Budget and Finance Committee this afternoon.

BACKGROUND

Currently, driveway approaches at a number of intersections in the City are unsignalized. This Driveway Signal Upgrade program would signalize these approaches to conform to existing State law. It is estimated that \$20,000 is needed for this project. Driveway locations proposed for upgrade with this project are:

LOCATION

COST

| | |
|---|--------------|
| Riverside Boulevard and 7th & 8th Avenues | \$ 2,500 |
| Occidental & La Riviera Drive | 5,000 |
| Folsom Boulevard & 43rd Street | 8,000 |
| Broadway & Riverside Boulevard | 2,500 |
| U S 50 Offramp at 34th Street | 1,000 |
| Sutterville Road & Del Rio Road | <u>1,000</u> |
| | \$20,000 |

June 28, 1988
City Council
Page 2

The Pedestrian and Flashing Warning Signal Project will install the following:

| <u>LOCATION</u> | <u>IMPROVEMENTS</u> | <u>COST</u> |
|------------------------------------|--------------------------|---------------|
| Jibboom Street & I Street | Pedestrian Indications | \$ 5,000 |
| Norwood/Grove Bypass | Flashing Warning Signals | 15,000 |
| Norwood Avenue & Lindley Avenue | Flashing Warning Signals | 10,000 |
| Rio Linda Boulevard & South Avenue | Flashing Warning Signals | <u>10,000</u> |
| | | \$40,000 |

At Jibboom Street & I Street pedestrian indications are currently not present. The signal operation should be improved to better separate pedestrian and vehicular traffic movements. Flashing warning signals are proposed at Rio Linda Boulevard and South Avenue and at Norwood Avenue and Lindley Avenue to augment existing 4-way stops that continue to experience accident problems. Flashing warning signals are also proposed at the Norwood/Grove Bypass to better inform drivers of the curvature of the road.

The Loop Detector Replacement project would install new loop detectors in the pavement at various traffic actuated traffic signals in the City. As pavement wears, and through the expansion and contraction of heating and cooling associated with meteorological changes, the pavement loop detectors can become brittle and break and the traffic signals will operate in a less than efficient manner. It is proposed that \$30,000 be used for this purpose and at the following locations:

| <u>LOCATION</u> | <u>COST</u> |
|---------------------------------------|--------------|
| Arden Way & Ethan Way | \$ 7,500 |
| Power Inn Road & 14th Avenue | 7,500 |
| Brookfield Drive & Franklin Boulevard | 7,500 |
| Fruitridge Road & 24th Street | <u>7,500</u> |
| | \$30,000 |

Approximately six (6) Type 170 traffic signal controllers and cabinets are proposed to be purchased to replace existing Type 90 controllers. The Type 170 controllers offer greater flexibility and interchangeability and will provide greater opportunity to coordinate traffic signals in the future. This is especially desirable because Type 170 controllers have been installed at signal locations that Light Rail preempts. The purchase of these units will cost about \$29,000 and will be used as following:

- 1) Arden Way & Blumenfeld Controller Replacement
- 2) Arden Way - S.R. 160 to Business 80 Master Controller
- 3) Downtown Light Rail Monitoring Master Controller
- 4) Master Count Processor
- 5) Spare Controller Unit
- 6) Spare Master Unit

During the construction of the traffic signal at Northgate Boulevard and San Juan Road subgrade excavation and backfill and electrical work over and above the contract was required. Approximately \$19,104 was spent for this work. It is proposed that this amount be added to the existing Capital Project.

It is also proposed that the current Valley Hi Drive and Franklin Boulevard Traffic Signal Project be modified and expanded to include a traffic signal at Meadow Park Way on Valley Hi Drive. This location is opposite Prairie Elementary School. Currently, the Valley Hi and Franklin Boulevard Signal Project has \$150,000 budgeted. Staff proposes to transfer \$23,438 to construct the additional traffic signal.

FINANCIAL

It is estimated that \$161,542 including planning, design, construction and contract management is required to fund the projects identified. The specific project funding requirements are as identified below:

| | |
|--|------------------|
| 1) Driveway Traffic Signal Upgrade | \$ 20,000 |
| 2) Pedestrian and Warning Signal Improvements | \$ 40,000 |
| 3) Detector Loop Replacement | \$ 30,000 |
| 4) Franklin & Valley Hi (Prairie Elementary School) | \$ 23,438 |
| 5) Type 170 Traffic Controller & Cabinet Purchase | \$ 29,000 |
| 6) Northgate Boulevard and San Juan Traffic Signal | <u>\$ 19,104</u> |
| TOTAL | \$161,542 |

Adequate funds are available in the Miscellaneous Minor Improvements and Miscellaneous Traffic Signal Modifications Projects (SB46 & TAO1).

| <u>FUND</u> | <u>Misc. Traffic Signal Modifications SB46</u> | <u>Misc. Minor Improvements TAO1</u> | <u>FUND TOTAL</u> |
|------------------|--|--|-------------------|
| Gas Tax | \$102,542 | \$ 30,000 | \$132,542 |
| Major Street Tax | <u> </u> | <u>\$ 29,000</u> | <u>\$ 29,000</u> |
| Total | \$102,542 | \$ 54,000 | \$161,542 |

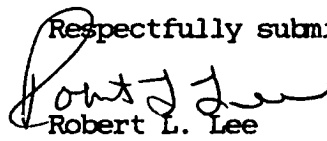
RECOMMENDATION

It is recommended that the attached Resolution be approved which:

- 1) Establishes new Capital Improvement Projects for
 - A) Driveway Traffic Signal Upgrade
 - B) Pedestrian and Warning Signal Improvements
 - C) Loop Detector Replacement
 - D) Type 170 Traffic Signal Controller Cabinet Replacement

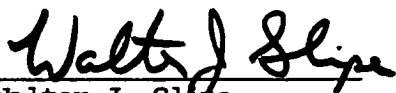
- 2) Augments the Northgate Boulevard and San Juan Road Traffic Signal Project
- 3) Modifies the Franklin Valley Hi Traffic Signal Project to include a signal at Meadow Park and Valley Hi Drive
- 4) Transfers \$161,542 from the Miscellaneous Minor Improvements and Miscellaneous Traffic Signal Modification projects to the identified projects.

Respectfully submitted,



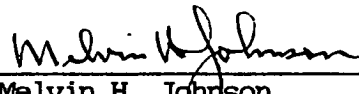
Robert L. Lee
Deputy Director of Public Works

RECOMMENDATION APPROVED:



Walter J. Slize
City Manager

APPROVED:



Melvin H. Johnson
Director of Public Works

June 28, 1988
All Districts

Attachment

RESOLUTION No. 88-549

Adopted by The Sacramento City Council on date of APPROVED
BY THE CITY COUNCIL

JUN 28 1988

OFFICE OF THE
CITY CLERK

RESOLUTION TO ESTABLISH CAPITAL IMPROVEMENT PROJECTS FOR
DRIVEWAY TRAFFIC SIGNAL UPGRADES, PEDESTRIAN AND WARNING SIGNAL IMPROVEMENTS,
LOOP DETECTOR REPLACEMENT, TRAFFIC SIGNAL CONTROLLER AND CABINET REPLACEMENT,
AUGMENT THE NORTHGATE BOULEVARD & SAN JUAN ROAD TRAFFIC SIGNAL PROJECT
AMEND THE FRANKLIN & VALLEY HI TRAFFIC SIGNAL CAPITAL IMPROVEMENT PROJECT
. AND TO TRANSFER \$161,542 FROM MISCELLANEOUS CAPITAL PROJECTS:

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

- 1) Capital Improvement Budget is hereby amended by adding the following Capital Projects:
 - A) Driveway Traffic Signal Upgrades
 - B) Pedestrian Warning Signal Improvements
 - C) Loop Detector Replacement
 - D) Traffic Signal Controller and Cabinet Replacement

- 2) The Franklin Boulevard & Valley Hi Drive Traffic Signal Capital Improvement Project (SC41) is hereby amended to include a traffic signal at Meadow Park Way & Valley Hi Drive

- 3) That \$20,000 is hereby transferred from Miscellaneous Minor Improvements (202-500-TA01-4414) to Driveway Traffic Signal Upgrades in the following manner:
 - \$ 1,000 to Labor Costs (202 500 xxxx 4880);
 - \$ 600 to Reimbursement Benefits (202 500 xxxx 4881);
 - \$ 1,350 to Indirect Costs (202 500 xxxx 4831);
 - \$17,050 to Construction (202 500 xxxx 4820)

- 4) That \$30,000 from Miscellaneous Traffic Signal Modifications (202-500-SB46-4414) and \$10,000 from Miscellaneous Minor Improvements (202-500-TA01-4414) is hereby transferred to Pedestrian and Warning Signal Improvements in the following manner:
 - \$ 2,000 to Labor Costs (202 500 xxxx 4880);
 - 1,200 to Reimbursement Benefits (202 500 xxxx 4881);
 - 2,700 to Indirect Costs (202 500 xxxx 4831);
 - \$34,100 to Construction (202 500 xxxx 4820)

- 5) That \$30,000 from Miscellaneous Traffic Signal Modifications (202-500-SB46-4414) is hereby transferred to Loop Detector Replacement in the following manner:
 - \$ 1,500 to Labor Costs (202 500 xxxx 4880);
 - 900 to Reimbursement Benefits (202 500 xxxx 4881);
 - 2,000 to Indirect Cost (202 500 xxxx 4831);
 - \$25,600 to Construction (202 500 xxxx 4820)

- 6) That \$29,000 from Miscellaneous Minor Improvements (209-500-TA01-4414) is hereby transferred to Traffic Signal Controller and Cabinet Replacement (209-500-xxxx-4820)

- 7) That \$19,104 from Miscellaneous Traffic Signal Upgrades (202-500-SB46-4414) is hereby transferred to San Juan Road Realignment. (209-500-TB41-4820).

- 8) That \$23,438 from Traffic Signal Upgrades (202-500-SB46-4414) is hereby transferred to the Franklin Boulevard & Valley Hi Traffic Signal (202-500-SC41-4820).

MAYOR

Attest:

City Clerk

JB:ap
JB2-91

RESOLUTION No.

Adopted by The Sacramento City Council on date of

RESOLUTION TO ESTABLISH CAPITAL IMPROVEMENT PROJECTS FOR DRIVEWAY TRAFFIC SIGNAL UPGRADES, PEDESTRIAN AND WARNING SIGNAL IMPROVEMENTS, LOOP DETECTOR REPLACEMENT, TRAFFIC SIGNAL CONTROLLER AND CABINET REPLACEMENT, AUGMENT THE NORTHGATE BOULEVARD & SAN JUAN ROAD TRAFFIC SIGNAL PROJECT, AMEND THE FRANKLIN & VALLEY HI TRAFFIC SIGNAL CAPITAL IMPROVEMENT PROJECT AND TO TRANSFER \$161,542 FROM MISCELLANEOUS CAPITAL PROJECTS:

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SACRAMENTO:

1) Capital Improvement Budget is hereby amended by adding the following Capital Projects:

- A) Driveway Traffic Signal Upgrades
- B) Pedestrian Warning Signal Improvements
- C) Loop Detector Replacement
- D) Traffic Signal Controller and Cabinet Replacement

2) The Franklin Boulevard & Valley Hi Drive Traffic Signal Capital Improvement Project (SC41) is hereby amended to include a traffic signal at Meadow Park Way & Valley Hi Drive

3) That \$20,000 is hereby transferred from Miscellaneous Minor Improvements (202-500-TA01-4820) to Driveway Traffic Signal Upgrades in the following manner:

- \$ 1,000 to Labor Costs (202 500 xxxx 4880);
- \$ 600 to Reimbursement Benefits (202 500 xxxx 4881);
- \$ 1,350 to Indirect Costs (202 500 xxxx 4821);
- \$17,050 to Construction (202 500 xxxx 4820)

4) That \$30,000 from Miscellaneous Traffic Signal Modifications (202-500-SB46-4820) and \$10,000 from Miscellaneous Minor Improvements (202-500-TA01-4820) is hereby transferred to Pedestrian and Warning Signal Improvements in the following manner:

- \$ 2,000 to Labor Costs (202 500 xxxx 4880);
- 1,200 to Reimbursement Benefits (202 500 xxxx 4881);
- 2,700 to Indirect Costs (202 500 xxxx 4831);
- \$34,100 to Construction (202 500 xxxx 4820)

5) That \$30,000 from Miscellaneous Traffic Signal Modifications (202-500-SB46-4820) is hereby transferred to Loop Detector Replacement in the following manner:

- \$ 1,500 to Labor Costs (202 500 ~~xxxx~~ 4880);
- 900 to Reimbursement Benefits (202 500 ~~xxxx~~ 4881);
- 2,000 to Indirect Cost (202 500 ~~xxxx~~ 4831);
- \$35,600 to Construction (202 500 ~~xxxx~~ 4820)

6) That \$29,000 from Miscellaneous Minor Improvements (209-500-TA01-4820) is hereby transferred to Traffic Signal Controller and Cabinet Replacement (209-500-~~xxxx~~-4820)

7) That \$19,104 from Miscellaneous Traffic Signal Upgrades (202-500-5846-4820) is hereby transferred to San Juan Road Realignment. (209-500-TB41-5820).

8) That \$23,438 from Traffic Signal Upgrades (202-500-SB46-4820) is hereby transferred to the Franklin Boulevard & Valley Hi Traffic Signal (202-500-SC41-4820).

MAYOR

Attest:

City Clerk

JB:ap
JB2-91



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PUBLIC WORKS

TRANSPORTATION DIVISION

CITY OF SACRAMENTO
CALIFORNIA

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ROOM 304
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June 28, 1988

916-449-5307

ROBERT L. LEE
TRANSPORTATION
DIVISION MANAGER

Budget & Finance Committee
Sacramento, California

Honorable Members in Session:

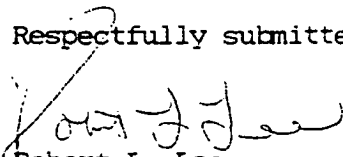
SUBJECT: Establishment and Modification of Capital Improvement Projects
and Transfer of Funds from the Miscellaneous Minor Improvements
and Miscellaneous Traffic Signal Modification Accounts


SUMMARY, BACKGROUND AND FINANCIAL DATA

This item is scheduled to be heard before the City Council this evening.
Please see the attached Council report for information.

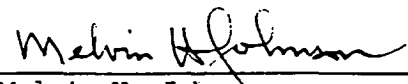
RECOMMENDATION

It is recommended that the Committee forward the attached resolution to the
full Council for approval.

Respectfully submitted,

Robert L. Lee
Deputy Director of Public Works

RECOMMENDATION APPROVED:


Jack R. Crist
Deputy City Manager

APPROVED:


Melvin H. Johnson
Director of Public Works

June 28, 1988
All Districts

Attachment