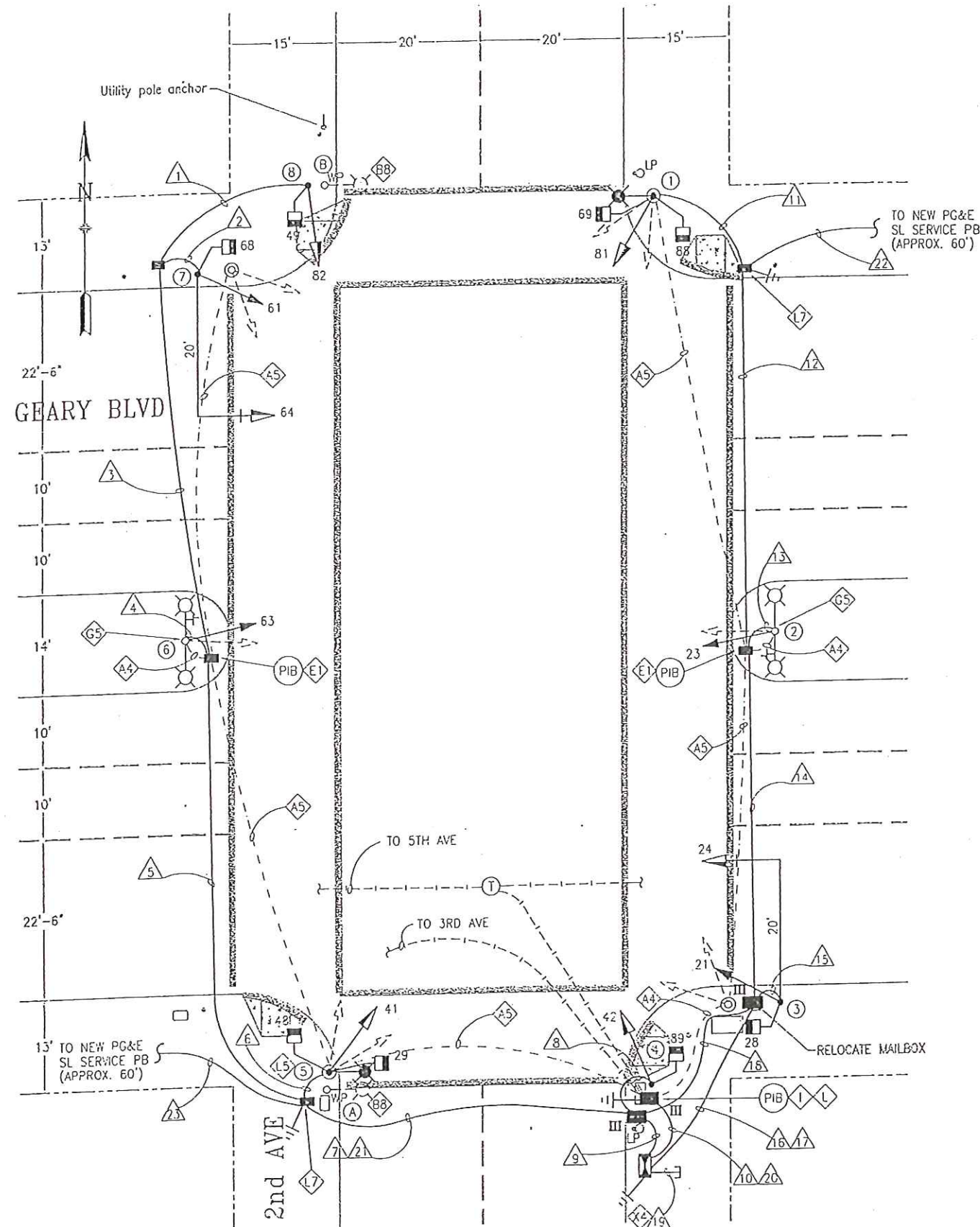
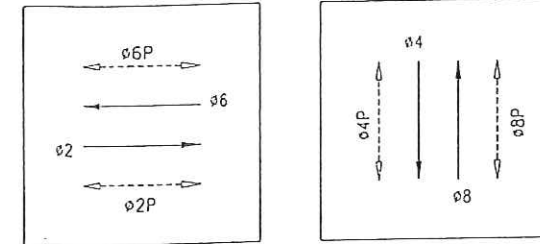




# PHASE DIAGRAM:



PHASES 2 & 6

PHASES 4 & 8

## SHEET NOTE:

1. THE CONTRACTOR TO CONTACT U.S. POSTAL SERVICE @ 1-800-222-1811 OR 284-0755 TO RELOCATE MAIL BOXES LOCATED AT SE CORNER.
2. THE CONTRACTOR TO PROVIDE 6' SLACK OF MUNI DETECTOR CABLE IN THE CONTROLLER AND 3' SLACK IN EACH PULLBOX ALONG ITS RUN. EXTEND THE CABLE 2' AT THE END OF THE MEDIAN STREET LIGHT LUMINAIRE ARM AND PVC TIE WRAP.

## DETAIL NOTES:

- 44 R/C EX CONDUIT AND WIRING. REPAIR SIDEWALK TO MATCH EX.
- 45 EX CONDUIT AND WIRING. R/C EX WIRING. CUT CONDUIT FLUSH TO PULL BOX WALL OR 12" DEPTH, CAP END(S).
- 61 SPLICE NEW WIRING TO EX SL WIRING TO ACTIVATE NEW SL CIRCUIT.
- 68 THE CONTRACTOR TO NOTIFY RAY YAMAGISHI OF BLHP @ 554-0728 AFTER INSTALLING THE STREET LIGHTS TO DISCONNECT POWER AND AND EX LUMINAIRE ON PG&E WOODEN POLE.
- E1 R/C EX PULL BOX. R/S EX METAL COVER. REPAIR SIDEWALK TO MATCH EX.
- G5 CHIP EX FOUNDATION CAREFULLY TO BRING CONDUIT INTO BASE OF CONCRETE STANDARD AND REPAIR AFTER INSTALLATION. AVOID DAMAGE TO THE POLE REINFORCING STEEL.
- I EX'END 12/C INTERCONNECT TO NEW IC LOCATION. SPLICE TO EX 12/C TO MAINTAIN INTERCONNECT SYSTEM.
- L F/I IN-LINE FUSE HOLDER W/ 40A FUSE FOR IC SERVICE. SPLICE NEW WIRES TO EX PG&E SERVICE TO SUPPORT NEW IC. F/I GROUND ROD.
- L5 STREET LIGHT IS TO BE F/I UNDER/NEAR OVERHEAD UTILITY WIRES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANIES TO PROVIDE NECESSARY SAFETY MEASURES FOR THE CONTRACTOR'S INSTALLATION OF THE STREET LIGHT POLE AND FOR THE CITY'S FUTURE MAINTENANCE OF THE STREET LIGHTS AFTER THIS PROJECT IS COMPLETED. ALL COORDINATION WITH THE UTILITY COMPANIES SHALL BE CONSIDERED AS INCIDENTAL WORK.
- L7 F/I IN-LINE FUSE HOLDER W/ 40A FUSE FOR STREET LIGHT SERVICE. F/I GROUND ROD.
- X4 STUB OUT AND CAP 3' FROM THE IC FOUNDATION.

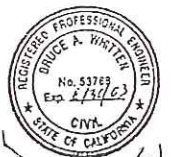
# PHASE SEQUENCE:

|    |     |        |                      |
|----|-----|--------|----------------------|
| G  | Y   | R      | GEARY BLVD           |
| R  | G   | Y R    | 2ND AVE              |
| RH | WM  | FRH RH | PEDS XING GEARY BLVD |
| WM | FRH | RH     | PEDS XING 2ND AVE    |

SWITCHED OVER 4/8/04

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|                                                                                       |  |                                                |  |                                                                                                |                                |                                                                                                                   |                                                 |                                                                                       |                                                                                      |
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| NO. DATE DESCRIPTION BY APP.<br>CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION |  | REFERENCE INFORMATION<br>& FILE NO. OF SURVEYS |  | <b>BUREAU OF ENGINEERING</b><br>DEPARTMENT OF PUBLIC WORKS<br>CITY AND COUNTY OF SAN FRANCISCO | DESIGNED: DATE<br>OSB/RO 10/01 | APPROVED<br>DATE: 11/9/01<br>SECTION MANAGER<br>DATE: 4/9/01<br>DIVISION MANAGER<br>DATE: 1/1/01<br>CITY ENGINEER | SCALE:<br>1"=10'<br>SHEET OF SHEETS<br>27 OF 51 | GEARY BOULEVARD<br>PAVEMENT RENOVATION<br>2ND AVE & GEARY BLVD<br>TRAFFIC SIGNAL WORK | SPECIFICATION NO.<br>2019N<br>DRAWING NO.<br>E-6.0<br>FILE NO.<br>78.363<br>REV. NO. |
|---------------------------------------------------------------------------------------|--|------------------------------------------------|--|------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

| CONDUIT AND WIRING SCHEDULE |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
|-----------------------------|---|----|----|---|----|----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|
| CONDUIT RUN NUMBER          | 1 | 2  | 3  | 4 | 5  | 6  | 7  | 8 | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22  | 23  | 24 | 25 | 26 |
| CONDUIT SIZE (INCH)         | 2 | 2  | 2  | 2 | 2  | 2  | 2  | 2 | 3  | 2  | 2  | 2  | 2  | 2  | 2  | 3  | 2  | 2  | 3  | 2  | 2  | 1.5 | 1.5 |    |    |    |
| NOTES                       |   |    |    |   |    |    |    |   | P  | P  |    |    |    |    |    | P  | P  | P  | P  | P  |    |     |     |    |    |    |
| #14 WIRES                   |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 82                   | 3 |    | 3  |   | 3  |    | 2  |   | 2  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 49                   | 2 |    | 2  |   | 2  |    | 2  |   | 2  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 68                   |   |    | 2  |   | 2  |    | 2  |   | 2  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 61                   |   |    | 3  |   | 3  |    | 3  |   | 3  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 64                   |   |    | 3  |   | 3  |    | 3  |   | 3  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 63                   |   |    |    |   | 3  |    | 3  |   | 3  |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 43                   |   |    |    |   |    |    | 2  |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 41                   |   |    |    |   |    |    | 3  |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 29                   |   |    |    |   |    |    | 2  |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 42                   |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 89                   |   |    |    |   |    |    |    |   | 2  |    | 2  |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 88                   |   |    |    |   |    |    |    |   |    |    | 2  |    | 2  |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 81                   |   |    |    |   |    |    |    |   |    |    | 3  |    | 3  |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 69                   |   |    |    |   |    |    |    |   |    |    | 2  |    | 2  |    |    |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 23                   |   |    |    |   |    |    |    |   |    |    |    |    | 3  |    | 3  |    |    |    |    |    |    |     |     |    |    |    |
| SIGNAL 28                   |   |    |    |   |    |    |    |   |    |    |    |    |    |    | 2  |    | 2  |    |    |    |    |     |     |    |    |    |
| SIGNAL 21                   |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    | 3  |    | 3  |    |    |     |     |    |    |    |
| SIGNAL 24                   |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    | 3  |    | 3  |    |    |     |     |    |    |    |
| #14 WIRES (NEUTRAL)         | 2 | 3  |    | 1 |    | 3  |    | 2 |    |    | 3  |    | 1  |    | 3  |    |    |    |    |    |    |     |     |    |    |    |
| #14 WIRES (SPARE)           |   |    | 3  |   | 3  |    | 3  |   | 3  |    |    | 3  |    | 3  |    | 3  |    |    |    |    |    |     |     |    |    |    |
| TOTAL #14 WIRES             | 7 | 11 | 16 | 4 | 19 | 10 | 18 | 7 | 30 |    | 10 | 10 | 4  | 13 | 11 | 21 |    |    |    |    |    |     | 7   |    |    |    |
| #10 WIRES NEUTRAL           |   |    | 1  |   | 1  |    | 1  |   | 2  |    |    | 1  |    | 1  |    | 2  |    |    |    |    |    |     | 1   |    |    |    |
| #8 WIRES (120V SERVICE)     |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    | 1  |    | 1  |    |    |     |     |    |    |    |
| #6 BSCW                     |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 2   |    | 2  |    |
| #8 WIRES (STREET LIGHT)     |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |    |    |    |
| #10 WIRES (STREET LIGHT)    |   |    |    |   |    |    | 2  |   |    |    | 2  |    |    |    |    |    |    |    |    |    |    | 3   |     |    |    |    |
| 12/C INTERCONNECT           |   |    |    |   |    |    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 1   |    |    |    |
| 1/4" PULL ROBE              |   |    | 1  |   | 1  |    | 1  |   | 1  |    |    |    | 1  |    | 1  |    |    |    |    |    |    |     |     |    |    |    |
| DETECTOR CABLE (MUNI)       |   |    |    | 1 | 1  |    | 1  |   | 1  |    |    |    | 1  | 1  |    | 1  |    |    |    |    |    |     |     |    |    |    |

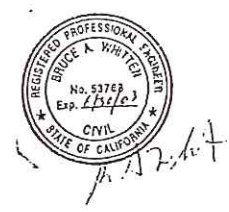
| POLE AND EQUIPMENT SCHEDULE |                                        |                                      |                |               |               |        |                   |                      |                             |           |
|-----------------------------|----------------------------------------|--------------------------------------|----------------|---------------|---------------|--------|-------------------|----------------------|-----------------------------|-----------|
| POLE No.                    | TYPE OF POLE                           | LUMINAIRE (HPS)<br>VOLTAGE/<br>WATTS | VEHICLE SIGNAL |               |               |        | PEDESTRIAN SIGNAL |                      |                             | REMARKS   |
|                             |                                        |                                      | No.            | TYPE          | MOUNTING      | VISORS | No.               | TYPE                 | MOUNTING                    |           |
| ①                           | CITY STANDARD SL WITH 6' LUMINAIRE ARM | 240/100<br>B2                        | 81             | 3S12"         | SV-1-T        | T      | 69<br>88          | 1S-COUNT<br>1S-COUNT | SP-1-SF (12")<br>SP-1 (22") |           |
| ②                           | EX SL                                  |                                      | 23             | 3S8"          | SV-1-T        | T      |                   |                      |                             |           |
| ③                           | 16-1-70 W/<br>20' MASTARM              |                                      | 24<br>21       | 3S12"<br>3S8" | MAS<br>SV-1-T | T<br>T | 28                | 1S-COUNT             | SP-1                        | BACKPLATE |
| ④                           | 1-A (10')                              |                                      | 42             | 3S12"         | TV-1-T        | T      | 89                | 1S-COUNT             | SP-1                        |           |
| ⑤                           | CITY STANDARD SL WITH 6' LUMINAIRE ARM | 240/100<br>B2                        | 41             | 3S12"         | SV-1-T        | T      | 29<br>48          | 1S-COUNT<br>1S-COUNT | SP-1-SF (12")<br>SP-1 (22") |           |
| ⑥                           | EX SL                                  |                                      | 63             | 3S8"          | SV-1-T        | T      |                   |                      |                             |           |
| ⑦                           | 16-1-70 W/<br>20' MASTARM              |                                      | 64<br>61       | 3S12"<br>3S8" | MAS<br>SV-1-T | T<br>T | 68                | 1S-COUNT             | SP-1                        | BACKPLATE |
| ⑧                           | 1-A (10')                              |                                      | 82             | 3S12"         | TV-1-T        | T      | 49                | 1S-COUNT             | SP-1                        |           |
| ⑨                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑩                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑪                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑫                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑬                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑭                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑮                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑯                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑰                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑱                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑲                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ⑳                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉑                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉒                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉓                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉔                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉕                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉖                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉗                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉘                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉙                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉚                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉛                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉜                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉝                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉞                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㉟                           |                                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㊱                           | UTILITY/WOOD/SL                        |                                      |                |               |               |        |                   |                      |                             |           |
| ㊲                           | UTILITY/WOOD/SL                        |                                      |                |               |               |        |                   |                      |                             |           |

DETAIL NOTES:

- B2 F/I WITH INTEGRAL BALLAST AND PHOTOELECTRIC CONTROL. F/I FUSE AND FUSE HOLDERS PER SPDPASF FILE #49,092.
- P POLYVINYL CHLORIDE (PVC) CONDUIT SCHEDULE 80.

Do Not  
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|                                                                                       |  |                                             |  |                                                                                                |                                                                                                                   |                                                                                                      |                                          |                                                                                                   |                                                                             |
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| NO. DATE DESCRIPTION BY APP.<br>CHECK WITH TRACING TO SEE IF YOU HAVE LATEST REVISION |  | REFERENCE INFORMATION & FILE NO. OF SURVEYS |  | <b>BUREAU OF ENGINEERING</b><br>DEPARTMENT OF PUBLIC WORKS<br>CITY AND COUNTY OF SAN FRANCISCO | DESIGNED: DATE: 10/01<br>DSB/RO 10/01<br>DRAWN: DATE: 10/01<br>JE/VW 10/01<br>CHECKED: DATE: 10/01<br>SL/BW 10/01 | APPROVED<br>SECTION MANAGER DATE: 10/01<br>DIVISION MANAGER DATE: 10/01<br>CITY ENGINEER DATE: 10/01 | SCALE: NONE<br>SHEET OF SHEETS: 28 OF 51 | GEARY BOULEVARD<br>PAVEMENT RENOVATION<br>2ND AVE & GEARY BLVD<br>TRAFFIC SIGNAL WORK (SCHEDULES) | SPECIFICATION NO. 2019N<br>DRAWING NO. E-6.1<br>FILE NO. 78,364<br>REV. NO. |
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