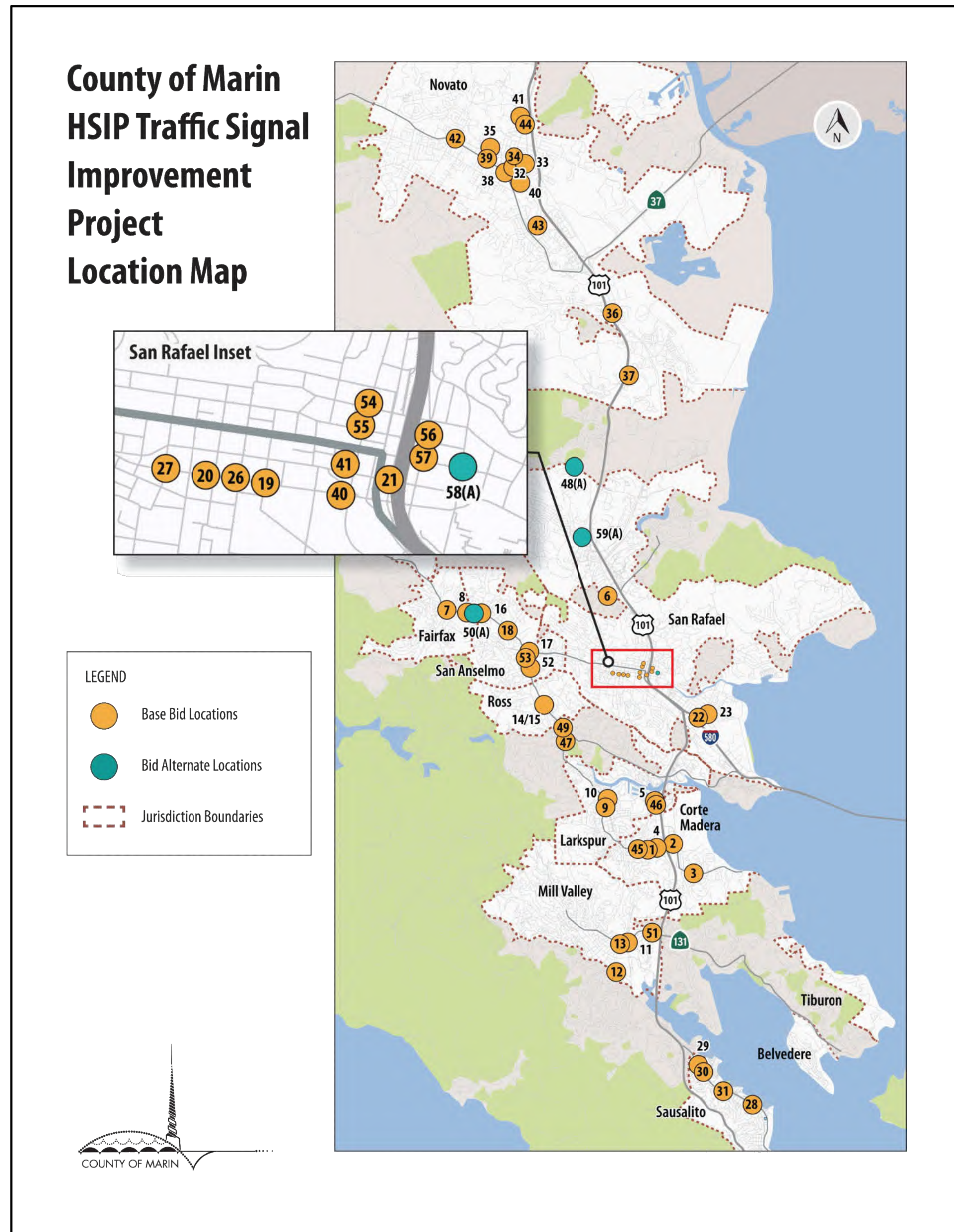




COUNTY OF MARIN HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT



PROJECT PARTNERS

- TOWN OF CORTE MADERA
- TOWN OF FAIRFAX
- CITY OF LARKSPUR
- CITY OF MILL VALLEY
- TOWN OF ROSS
- TOWN OF SAN ANSELMO
- CITY OF SAN RAFAEL
- CITY OF SAUSALITO
- CITY OF NOVATO

PREPARED UNDER THE DIRECTION OF:

Andrew Lee 1/13/2022

SHEETS 4-63, 90-104 DATE
ANDREW LEE, PE, TE
PARISI TRANSPORTATION CONSULTING

Steve Fitzsimons 1/13/2022

SHEETS 64-89 DATE
STEVE FITZSIMONS, PE, TE
W-TRANS

ACCEPTED BY:

R. Gaglione 2/10/2022

ROSEMARIE R. GAGLIONE, PE
COUNTY OF MARIN DATE

W-Trans 100% PLANS



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| DRAWN: DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TITLE SHEET



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| ▲ | | 12/07/2021 | N/A |
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| NO. | DESCRIPTION | | |

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|--------------------------|--------|
| PTC PROJECT NO. 20036 | T-1 |
| SHEET NO. 1 | OF 104 |

ORIGINAL HSIP GRANT LOCATIONS

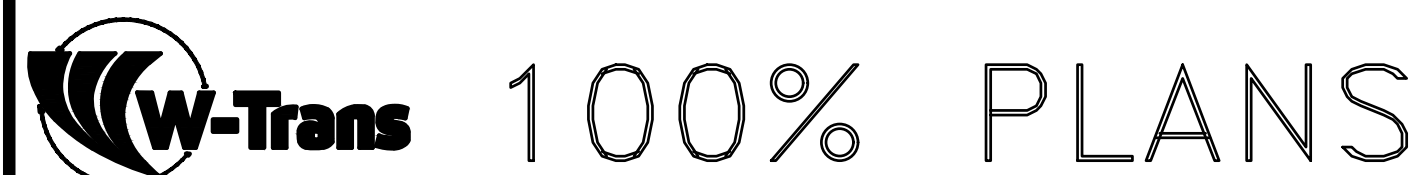
| SHEET | DRAWING | JURISDICTION | DESCRIPTION |
|-------|-----------|-----------------|--|
| 1 | T1 | | TITLE SHEET |
| 2 | IOP-1 | | INDEX OF PLANS |
| 3 | EN-1 | | GENERAL ELECTRICAL NOTES |
| 4 | E-1.1 | CORTE MADERA | TAMALPAIS DR / MADERA BLVD / SANFORD ST ELECTRICAL PLAN |
| 5 | E-1.2 | CORTE MADERA | TAMALPAIS DR / MADERA BLVD / SANFORD ST ELECTRICAL SCHEDULE |
| 6 | E-2.1 | CORTE MADERA | TAMALPAIS DR / SAN CLEMENTE DR ELECTRICAL PLAN |
| 7 | E-2.2 | CORTE MADERA | TAMALPAIS DR / SAN CLEMENTE DR ELECTRICAL SCHEDULE |
| 8 | E-3.1 | CORTE MADERA | PARADISE DR / EL CAMINO DR / SEAWOLF PASSAGE ELECTRICAL PLAN |
| 9 | E-3.2 | CORTE MADERA | PARADISE DR / EL CAMINO DR / SEAWOLF PASSAGE ELECTRICAL SCHEDULE |
| 10 | E-4.1 | CORTE MADERA | TAMALPAIS DR / CORTE MADERA TOWN CENTER ELECTRICAL PLAN |
| 11 | E-4.2 | CORTE MADERA | TAMALPAIS DR / CORTE MADERA TOWN CENTER ELECTRICAL SCHEDULE |
| 12 | E-5.1 | CORTE MADERA | TAMAL VISTA BLVD / FIFER AVE ELECTRICAL PLAN |
| 13 | E-5.2 | CORTE MADERA | TAMAL VISTA BLVD / FIFER AVE ELECTRICAL SCHEDULE |
| 14 | E-6.1 | COUNTY OF MARIN | LOS RANCHITOS RD / N. SAN PEDRO RD ELECTRICAL PLAN |
| 15 | E-6.2 | COUNTY OF MARIN | LOS RANCHITOS RD / N. SAN PEDRO RD ELECTRICAL SCHEDULE |
| 16 | E-7.1 | FAIRFAX | SIR FRANCIS DRAKE BLVD / CLAUS DR ELECTRICAL PLAN |
| 17 | E-7.2 | FAIRFAX | SIR FRANCIS DRAKE BLVD / CLAUS DR ELECTRICAL SCHEDULE |
| 18 | E-8.1 | FAIRFAX | SIR FRANCIS DRAKE BLVD / WILLOW AVE / PASTORI AVE ELECTRICAL PLAN |
| 19 | E-8.2 | FAIRFAX | SIR FRANCIS DRAKE BLVD / WILLOW AVE / PASTORI AVE ELECTRICAL SCHEDULE |
| 20 | E-9.1 | LARKSPUR | MAGNOLIA AVE / WARD ST ELECTRICAL PLAN |
| 21 | E-9.2 | LARKSPUR | MAGNOLIA AVE / WARD ST ELECTRICAL SCHEDULE |
| 22 | E-10.1 | LARKSPUR | MAGNOLIA AVE / DOHERTY DR ELECTRICAL PLAN |
| 23 | E-10.2 | LARKSPUR | MAGNOLIA AVE / DOHERTY DR ELECTRICAL SCHEDULE |
| 24 | E-11.1 | MILL VALLEY | BLITHEDALE AVE / CAMINO ALTO ELECTRICAL PLAN |
| 25 | E-11.2 | MILL VALLEY | BLITHEDALE AVE / CAMINO ALTO ELECTRICAL SCHEDULE |
| 26 | E-12.1 | MILL VALLEY | CAMINO ALTO / MILLER AVE ELECTRICAL PLAN |
| 27 | E-12.2 | MILL VALLEY | CAMINO ALTO / MILLER AVE ELECTRICAL SCHEDULE |
| 28 | E-13.1 | MILL VALLEY | E BLITHEDALE AVE / LOMITA DR / ROQUE MORAES DR ELECTRICAL PLAN |
| 29 | E-13.2 | MILL VALLEY | E BLITHEDALE AVE / LOMITA DR / ROQUE MORAES DR ELECTRICAL SCHEDULE |
| 30 | E-14/15.1 | ROSS | SIR FRANCIS DRAKE BLVD / LAUREL GROVE AVE / LAGUNITAS RD ELECTRICAL PLAN |
| 31 | E-14/15.2 | ROSS | SIR FRANCIS DRAKE BLVD / LAUREL GROVE AVE / LAGUNITAS RD E. SCHEDULE |
| 32 | E-16.1 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / BUTTERFIELD RD ELECTRICAL PLAN |
| 33 | E-16.2 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / BUTTERFIELD RD ELECTRICAL SCHEDULE |
| 34 | E-17.1 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / CENTER BLVD / RED HILL ELECTRICAL PLAN |
| 35 | E-17.2 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / CENTER BLVD / RED HILL ELECTRICAL SCHEDULE |
| 36 | E-18.1 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / SAN FRANCISCO BLVD / TAMAL AVE ELECTRICAL PLAN |
| 37 | E-18.2 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / SAN FRANCISCO BLVD / TAMAL AVE E. SCHEDULE |
| 38 | E-19.1 | SAN RAFAEL | 2ND ST / A ST ELECTRICAL PLAN |
| 39 | E-19.2 | SAN RAFAEL | 2ND ST / A ST ELECTRICAL SCHEDULE |
| 40 | E-20.1 | SAN RAFAEL | 2ND ST / C ST ELECTRICAL PLAN |
| 41 | E-20.2 | SAN RAFAEL | 2ND ST / C ST ELECTRICAL SCHEDULE |
| 42 | E-21.1 | SAN RAFAEL | 3RD ST / HETHERTON ST ELECTRICAL PLAN |
| 43 | E-21.2 | SAN RAFAEL | 3RD ST / HETHERTON ST ELECTRICAL SCHEDULE |
| 44 | E-22.1 | SAN RAFAEL | BELLAM BLVD / FRANCISCO BLVD E ELECTRICAL PLAN |
| 45 | E-22.2 | SAN RAFAEL | BELLAM BLVD / FRANCISCO BLVD E ELECTRICAL SCHEDULE |
| 46 | E-23.1 | SAN RAFAEL | BELLAM BLVD / KERNER BLVD ELECTRICAL PLAN |
| 47 | E-23.2 | SAN RAFAEL | BELLAM BLVD / KERNER BLVD ELECTRICAL SCHEDULE |
| 48 | E-24.1 | SAN RAFAEL | 2ND ST / LINCOLN AVE ELECTRICAL PLAN |
| 49 | E-24.2 | SAN RAFAEL | 2ND ST / LINCOLN AVE ELECTRICAL SCHEDULE |
| 50 | E-25.1 | SAN RAFAEL | 3RD ST / LINCOLN AVE ELECTRICAL PLAN |
| 51 | E-25.2 | SAN RAFAEL | 3RD ST / LINCOLN AVE ELECTRICAL SCHEDULE |
| 52 | E-26.1 | SAN RAFAEL | 2ND ST / B ST ELECTRICAL PLAN |
| 53 | E-26.2 | SAN RAFAEL | 2ND ST / B ST ELECTRICAL SCHEDULE |

ORIGINAL HSIP GRANT LOCATIONS

| SHEET | DRAWING | JURISDICTION | DESCRIPTION |
|-------|---------|--------------|---|
| 54 | E-27.1 | SAN RAFAEL | 2ND ST / E ST ELECTRICAL PLAN |
| 55 | E-27.2 | SAN RAFAEL | 2ND ST / E ST ELECTRICAL SCHEDULE |
| 56 | E-28.1 | SAUSALITO | BRIDGEWAY / JOHNSON ST ELECTRICAL PLAN |
| 57 | E-28.2 | SAUSALITO | BRIDGEWAY / JOHNSON ST ELECTRICAL SCHEDULE |
| 58 | E-29.1 | SAUSALITO | BRIDGEWAY / GATE 5 RD / EBBTIDE AVE ELECTRICAL PLAN |
| 59 | E-29.2 | SAUSALITO | BRIDGEWAY / GATE 5 RD / EBBTIDE AVE ELECTRICAL SCHEDULE |
| 60 | E-30.1 | SAUSALITO | BRIDGEWAY / HARBOR DR ELECTRICAL PLAN |
| 61 | E-30.2 | SAUSALITO | BRIDGEWAY / HARBOR DR ELECTRICAL SCHEDULE |
| 62 | E-31.1 | SAUSALITO | BRIDGEWAY / MARINSHIP WAY / EASTERBY & SPRING STS ELECTRICAL PLAN |
| 63 | E-31.2 | SAUSALITO | BRIDGEWAY / MARINSHIP WAY / EASTERBY & SPRING STS ELECTRICAL SCHEDULE |
| 64 | E-32.1 | NOVATO | REDWOOD BLVD / DE LONG AVE TRAFFIC SIGNAL MODIFICATION |
| 65 | E-32.2 | NOVATO | REDWOOD BLVD / DE LONG AVE ELECTRICAL SCHEDULES |
| 66 | E-33.1 | NOVATO | DE LONG AVE / REICHERT AVE TRAFFIC SIGNAL MODIFICATION |
| 67 | E-33.2 | NOVATO | DE LONG AVE / REICHERT AVE ELECTRICAL SCHEDULES |
| 68 | E-34.1 | NOVATO | REDWOOD BLVD / GRANT AVE TRAFFIC SIGNAL MODIFICATION |
| 69 | E-34.2 | NOVATO | REDWOOD BLVD / GRANT AVE TRAFFIC ELECTRICAL SCHEDULES |
| 70 | E-35.1 | NOVATO | SEVENTH STREET / GRANT AVE TRAFFIC SIGNAL MODIFICATION |
| 71 | E-35.2 | NOVATO | SEVENTH STREET / GRANT AVE ELECTRICAL SCHEDULES |
| 72 | E-36.1 | NOVATO | BEL MARIN KEYS BLVD / IGNACIO-NAVE DR TRAFFIC SIGNAL MODIFICATION |
| 73 | E-36.2 | NOVATO | BEL MARIN KEYS BLVD / IGNACIO-NAVE DR ELECTRICAL SCHEDULES |
| 74 | E-37.1 | NOVATO | NAVE DR / BOLLING DR TRAFFIC SIGNAL MODIFICATION |
| 75 | E-37.2 | NOVATO | NAVE DR / BOLLING DR ELECTRICAL SCHEDULES |
| 76 | E-38.1 | NOVATO | NOVATO BLVD / DIABLO DR TRAFFIC SIGNAL MODIFICATION |
| 77 | E-38.2 | NOVATO | NOVATO BLVD / DIABLO DR ELECTRICAL SCHEDULES |
| 78 | E-39.1 | NOVATO | NOVATO BLVD / TAMALPAIS AVE-7TH ST TRAFFIC SIGNAL MODIFICATION |
| 79 | E-39.2 | NOVATO | NOVATO BLVD / TAMALPAIS AVE-7TH ST ELECTRICAL SCHEDULES |
| 80 | E-40.1 | NOVATO | REDWOOD BLVD / LAMONT AVE TRAFFIC SIGNAL MODIFICATION |
| 81 | E-40.2 | NOVATO | REDWOOD BLVD / LAMONT AVE ELECTRICAL SCHEDULES |
| 82 | E-41.1 | NOVATO | SAN MARIN DR / E. CAMPUS DR TRAFFIC SIGNAL MODIFICATION |
| 83 | E-41.2 | NOVATO | SAN MARIN DR / E. CAMPUS DR ELECTRICAL SCHEDULES |
| 84 | E-42.1 | NOVATO | NOVATO BLVD / SIMMONS LN TRAFFIC SIGNAL MODIFICATION |
| 85 | E-42.2 | NOVATO | NOVATO BLVD / SIMMONS LN ELECTRICAL SCHEDULES |
| 86 | E-43.1 | NOVATO | REDWOOD BLVD / ROWLAND BLVD TRAFFIC SIGNAL MODIFICATION |
| 87 | E-43.2 | NOVATO | REDWOOD BLVD / ROWLAND BLVD ELECTRICAL SCHEDULES |
| 88 | E-44.1 | NOVATO | REDWOOD BLVD / SAN MARIN DR TRAFFIC SIGNAL MODIFICATION |
| 89 | E-44.2 | NOVATO | REDWOOD BLVD / SAN MARIN DR ELECTRICAL SCHEDULES |

SUPPLEMENTAL LOCATIONS ADDED WITH HSIP GRANT SCOPE CHANGE

| | | | |
|-----|----------|-----------------|--|
| 90 | E-45 | CORTE MADERA | TAMALPAIS AVE / EASTMAN AVE ELECTRICAL SCHEDULE |
| 91 | E-46 | CORTE MADERA | TAMAL VISTA BLVD / WORNUM DRIVE ELECTRICAL SCHEDULE |
| 92 | E-47 | COUNTY OF MARIN | COLLEGE AVE / MIDDLEBLOCK XING AT CORTE MADERA CREEK ELECTRICAL SCHEDULE |
| 93 | E-48(AA) | COUNTY OF MARIN | LUCAS VALLEY ROAD / LAS GALLINAS AVENUE ELECTRICAL SCHEDULE (ADD-ALTERNATE) |
| 94 | E-49 | COUNTY OF MARIN | SIR FRANCIS DRAKE BLVD / ELM AVE ELECTRICAL SCHEDULE |
| 95 | E-50(AA) | FAIRFAX | SIR FRANCIS DRAKE BLVD / SUFFIELD AVE / KENT AVE ELECTRICAL SCHEDULE (ADD-ALTERNATE) |
| 96 | E-51 | MILL VALLEY | E. BLITHEDALE AVE / KIPLING DR / TOWER DR ELECTRICAL SCHEDULE |
| 97 | E-52 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / BARBER AVE / ROSS AVE ELECTRICAL SCHEDULE |
| 98 | E-53 | SAN ANSELMO | SIR FRANCIS DRAKE BLVD / TUNSTEAD AVE ELECTRICAL SCHEDULE |
| 99 | E-54 | SAN RAFAEL | MISSION AVE / LINCOLN AVE ELECTRICAL SCHEDULE |
| 100 | E-55 | SAN RAFAEL | 5TH AVE / LINCOLN AVE ELECTRICAL SCHEDULE |
| 101 | E-56 | SAN RAFAEL | 5TH AVE / IRWIN ST ELECTRICAL SCHEDULE |
| 102 | E-57 | SAN RAFAEL | 4TH ST / IRWIN ST ELECTRICAL SCHEDULE |
| 103 | E-58(AA) | SAN RAFAEL | 4TH ST / GRAND AVE ELECTRICAL SCHEDULE (ADD-ALTERNATE) |
| 104 | E-59(AA) | SAN RAFAEL | MANUEL T FREITAS PARKWAY / NORTHGATE DRIVE ELECTRICAL SCHEDULE (ADD-ALTERNATE) |



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| DRAWN: DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
INDEX OF PLANS



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △ | | 10/01/2021 | N/A |
| △ | | | |
| △ | | | |
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| NO. | DESCRIPTION | | |


PTC PROJECT NO. 20036

DRAWING IOP-1

SHEET NO. 2 OF 104



1. WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALTRANS STANDARD PLANS AND SPECIFICATIONS, 2018, MOST CURRENT UPDATE AS OF THE BID DEADLINE DATE.
2. SIGNS SHALL CONFORM TO THE PROVISIONS IN THE CALIFORNIA MUTCD, 2014, WITH MOST CURRENT REVISIONS.
3. RIGHT OF WAY SHOWN IS APPROXIMATE. ALL WORK SHALL BE WITHIN LIMITS OF THE EXISTING SIDEWALK.
4. TRAFFIC SIGNAL CONTROLLER ASSEMBLY COMPONENTS SHALL CONFORM TO THE CALTRANS TEES, LATEST EDITION AND ERRATA.
5. TRAFFIC SIGNAL SHUTDOWNS SHALL BE LIMITED TO THE HOURS OF 9:00 AM TO 4:00 PM. TRAFFIC CONTROL SHALL BE PROVIDED DURING SIGNAL SHUTDOWNS.
6. TRAFFIC CONTROL SHALL CONFORM TO THE PROVISIONS OF SECTION 6 OF THE CALIFORNIA MUTCD. TRAFFIC CONTROL, AT A MINIMUM SHALL INCLUDE TWO PORTABLE STOP SIGNS FOR EACH APPROACH, PLUS ADVANCE SIGNS (ONE PER APPROACH) WITH "SIGNAL WORK AHEAD" AT LEAST 250 FEET IN ADVANCE OF THE INTERSECTION ON EACH APPROACH. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR EACH LOCATION FOR CITY APPROVAL. ADDITIONAL TRAFFIC CONTROL MEASURES SHALL BE PROVIDED FOR INTERSECTIONS WITH HIGH TRAFFIC VOLUMES, AS REQUIRED TO PROVIDE SAFE OPERATIONS.
7. COUNTY OF MARIN WILL PROVIDE ENCROACHMENT PERMIT APPLICATIONS TO THE CONTRACTOR FOR APPLICABLE AGENCIES INCLUDING CALTRANS, SMART, CITIES AND TOWNS. CONTRACTOR IS RESPONSIBLE FOR FINALIZING THE ENCROACHMENT PERMIT WITH EACH AGENCY.
8. CONTRACTOR SHALL COORDINATE WITH PG&E CONNECTION SETUP TO NEW SERVICE CABINETS.
9. NEW PEDESTRIAN SIGNALS SHALL BE THE COUNTDOWN TYPE.
10. NEW PEDESTRIAN PUSH BUTTONS SHALL BE THE ACCESSIBLE PEDESTRIAN SIGNAL (APS) TYPE, WITH AUDIBLE WORD MESSAGES.
11. APS MAY BE THE 2-WIRE OR 3-WIRE TYPE.
12. WHERE 8-INCH VEHICLE SIGNAL HEADS ARE TO BE UPGRADED TO 12-INCH, THE SIGNAL MOUNTING ASSEMBLY FOR THE SIGNAL HEAD PLUS ANY OTHER HEADS ON THE SAME MOUNTING SHALL BE REPLACED WITH A NEW ASSEMBLY.
13. ADVANCE DILEMMA ZONE DETECTION SYSTEMS (ADZD) SHALL BE CAPABLE OF DETERMINING THE TYPE AND TRAVEL SPEED OF EACH APPROCHING VEHICLE DURING THE GREEN DISPLAY. THE ADZD SHALL COMMUNICATE WITH THE TRAFFIC SIGNAL CONTROLLER TO DETERMINE HOW MUCH GREEN TIME IS REMAINING ON THE CURRENTLY ACTIVE THROUGH GREEN PHASE THAT IS TO BE MONITORED. WHEN A VEHICLE IS DETECTED THAT WILL NOT ARRIVE AT THE INTERSECTION BEFORE THE GREEN DISPLAY HAS TERMINATED AND WILL NOT BE ABLE TO STOP BEFORE ENTERING THE INTERSECTION (FOR EXAMPLE, A HIGH SPEED PASSENGER CAR OR A LARGE COMMERCIAL VEHICLE), THE ADZD SHALL COMMUNICATE WITH THE TRAFFIC SIGNAL CONTROLLER UNIT TO IMPLEMENT AN ALL RED INTERVAL, WITH DURATION OF THE INTERVAL IN A RANGE OF 1-10 SECONDS AND INITIALLY SET FOR 5 SECONDS, FOR ONLY THE SIGNAL CYCLE WITH THE DETECTED VEHICLE.
14. TRAFFIC SIGNAL CONTROLLER SOFTWARE TO BE FURNISHED AND INSTALLED AT INTERSECTIONS WHERE ADZD IS TO BE INSTALLED SHALL BE FOURTH DIMENSION (D4) OR APPROVED EQUAL THAT IS FULLY COMPATIBLE WITH THE SELECTED ADZD.
15. KNOWN ADZD VENDORS INCLUDE ITERIS VANTAGE VECTOR HYBRID OR WAVETRONIX SMARTSENSOR ADVANCE.
16. TRAFFIC SIGNAL HOUSINGS, VISORS, AND BACKPLATES SHALL BE PAINTED FLAT BLACK. MOUNTING BRACKETS AND PEDESTRIAN BUTTON ASSEMBLIES SHALL BE PAINTED SIGNAL GREEN.

 100% PLANS



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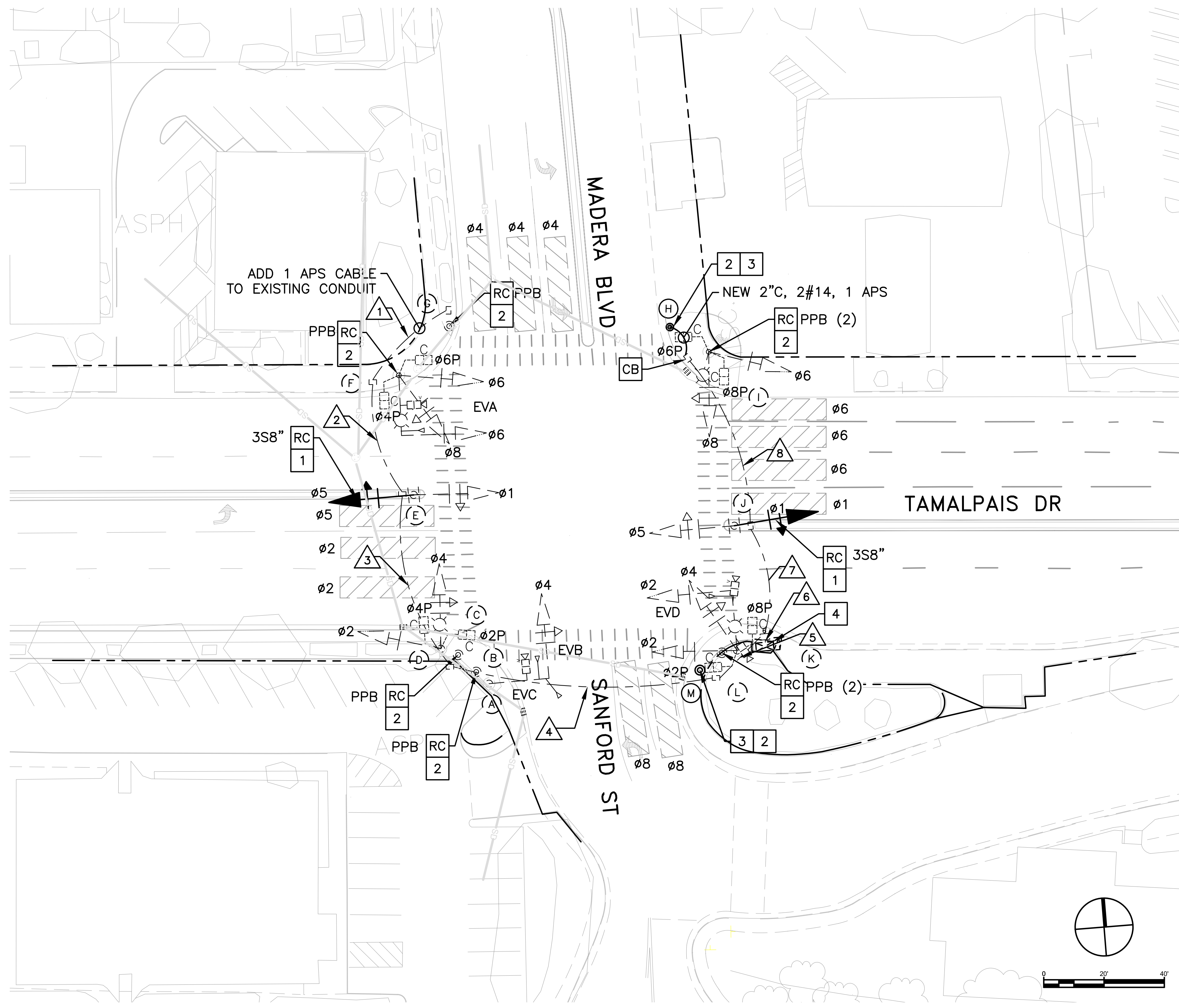
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| DRAWN: DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
GENERAL ELECTRICAL NOTES



| REVISIONS | | DATE | SCALE |
|-----------|--|-------------|-----------------|
| | | 10/01/2021 | N/A |
| | | PROJECT NO. | 20036 |
| | | DRAWING | EN-1 |
| | | SHEET NO. | 3 OF 104 |
| NO. | | DESCRIPTION | |



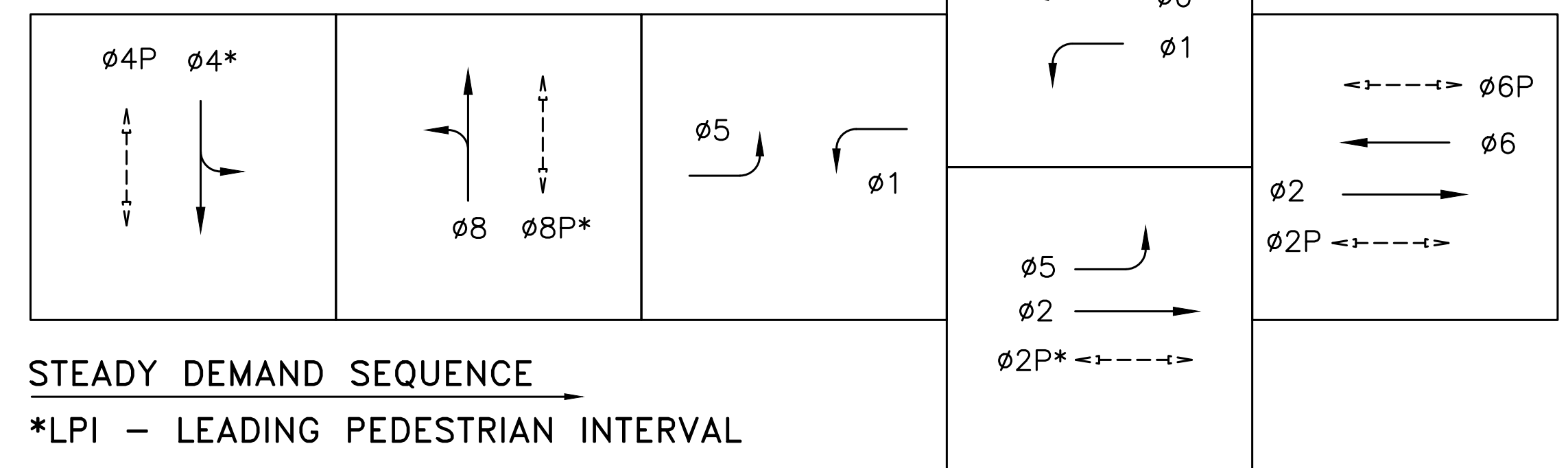
GENERAL NOTES (THIS SHEET ONLY)

- EXISTING BACKPLATES HAVE REFLECTIVE TAPE INSTALLED.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE. APPLY 2" REFLECTIVE TAPE ON NEW BACKPLATES (2 TOTAL)
- 2** INSTALL APS.
- 3** INSTALL NEW PBA POST.
- 4** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.

EXISTING PHASE DIAGRAM



100% PLANS

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CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMALPAIS DR / MADERA BLVD / SANFORD ST ELECTRICAL PLAN

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-1.1 |
| | | SHEET NO. | 4 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | |
| | | RUN NUMBER | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 |
| #14 | Ø1 | | | 3 | 3 | 3 | 6 | 3 | |
| | Ø2 | | | | 3 | 3 | 3 | | |
| | Ø4 | | | | 3 | 3 | 6 | 3 | |
| | Ø5 | | | 3 | 3 | 3 | 3 | | |
| | Ø6 | | 3 | 3 | 3 | 3 | 6 | 3 | 3 |
| | Ø8 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Ø2P | | | | 2 | 2 | 2 | | |
| | Ø4P | | 2 | 2 | 2 | 2 | 2 | | |
| | Ø6P | | 2 | 2 | 2 | 2 | 4 | 2 | 2 |
| | Ø8P | | | | 2 | 2 | 4 | 2 | 2 |
| | Ø2 APS | | | | 1 | 1 | 1 | | |
| | Ø4 APS | | 1 | 1 | 1 | 1 | 1 | | |
| | Ø6 APS | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | Ø8A APS | | | | 1 | 1 | 2 | 1 | 1 |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| SPARES | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | |
| TOTAL #14 | | 5 | 16 | 22 | 34 | 34 | 53 | 22 | 16 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | LUMINAIRES | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | TOTAL #10 | 1 | 3 | 3 | 3 | 3 | 4 | 3 | 3 |
| VIDEO DETECTION | CABLE | | 1 | 1 | 2 | 4 | | | |
| | | | | | | | | | |
| EVP | EVA | | 1 | 1 | 1 | 1 | | | |
| | EVB | | | | 1 | 1 | | | |
| | EVC | | | | 1 | 1 | | | |
| | EVD | | | | | 1 | | | |
| | TOTAL EVP | 0 | 1 | 1 | 3 | 4 | 0 | 0 | 0 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|-------------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | HPS LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 16-1-70 | 20' | | | MAS | | | | | |
| (B) | PBA POST | | | | | | | Ø2P | ← | |
| (C) | PBA POST | | | | | | | Ø4P | → | |
| (D) | 15 | | 12' | 200 | | SV-2-T | SP-2-T | | | |
| (E) | 1-B | | | | | TV-1 SV-1-T (NEW) | | | | REPLACE (E) 3S8" WITH (N) 3S12"L (Ø5). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE. |
| (F) | 17-2-70 | 20' | 12' | 200 | MAS | SV-2-T | SP-2-T | Ø4P | ← | |
| (G) | PBA POST | | | | | | | Ø6P | → | |
| (H) | PBA POST (NEW) | | | | | | | Ø6P | ← | |
| (I) | 15 | | 12' | 200 | | SV-2-T | SP-2-T | Ø8P | ← | |
| (J) | 1-B | | | | | TV-1 SV-1-T (NEW) | | | | REPLACE (E) 3S8" WITH (N) 3S12"L (Ø1). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE. |
| (K) | 17-2-70 | 20' | 12' | 200 | MAS | SV-2-T | SP-2-T | | | |
| (L) | PBA POST | | | | | | | Ø8P | ← | |
| (M) | PBA POST (NEW) | | | | | | | Ø2P | → | |

*ALL APS SHALL BE NEW

100% PLANS



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(510) 343-6400

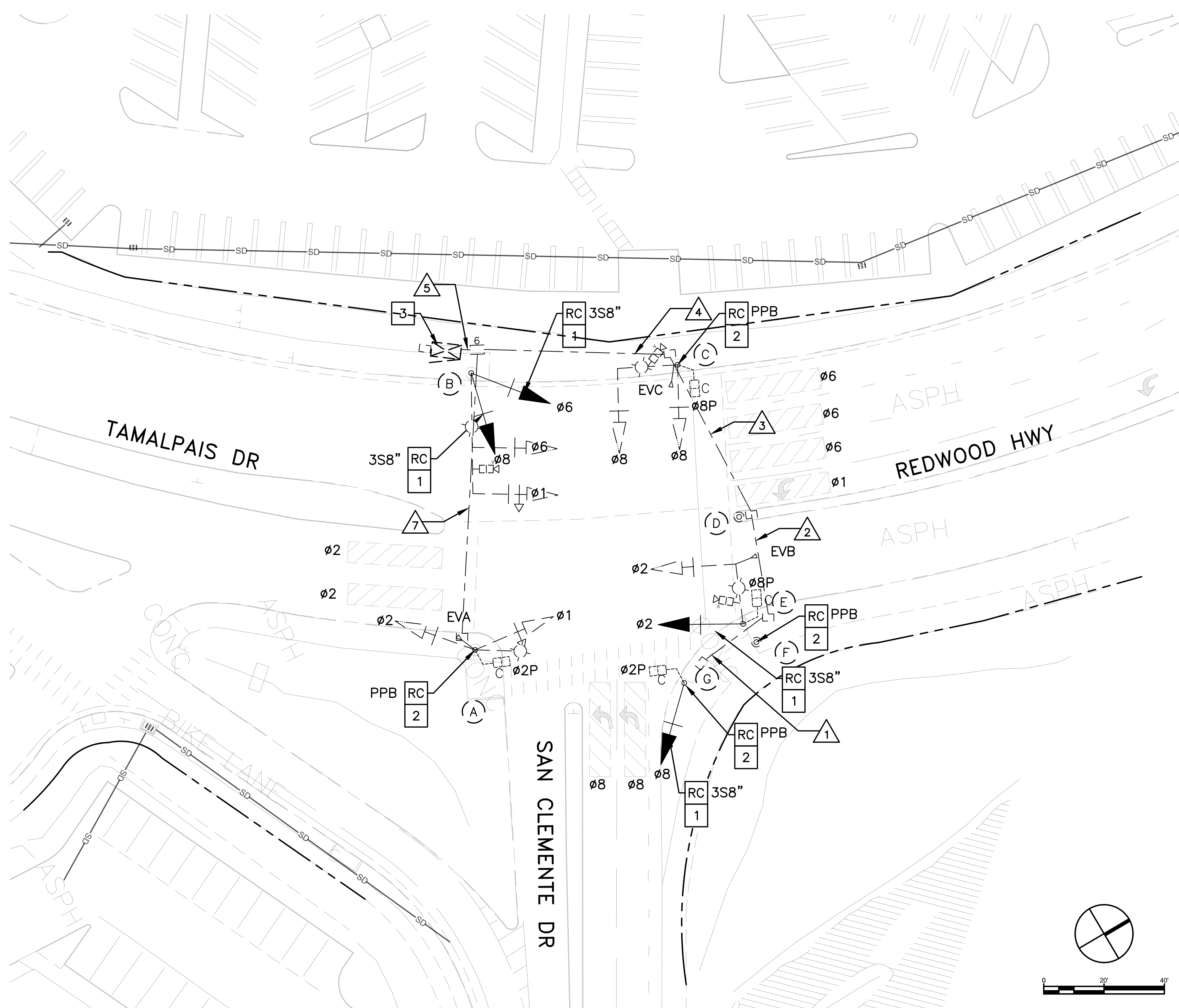
DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMALPAIS DR / MADERA BLVD / SANFORD ST ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-1.2
SHEET NO. 5 OF 104



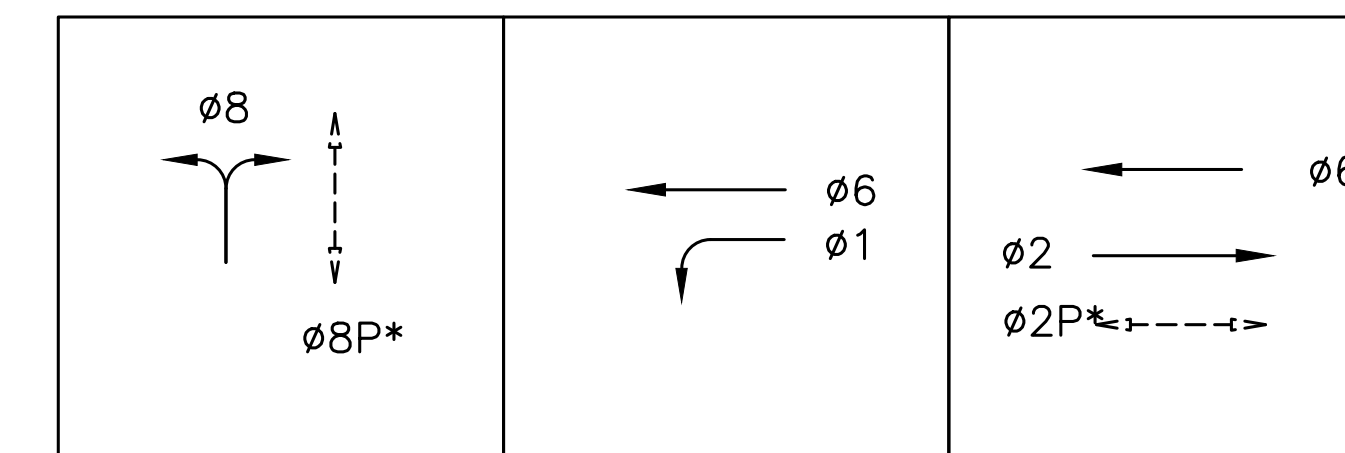
GENERAL NOTES (THIS SHEET ONLY)

1. EXISTING BACKPLATES HAVE REFLECTIVE TAPE INSTALLED.
2. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
3. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

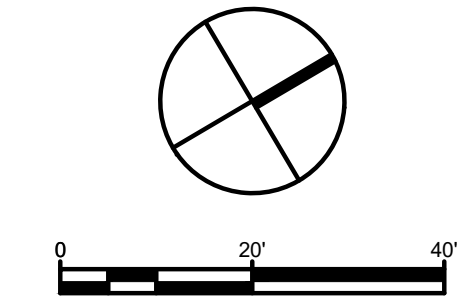
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE. APPLY 2" REFLECTIVE TAPE TO NEW BACKPLATE (4 TOTAL).
- 2** INSTALL APS.
- 3** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

*LPI - LEADING PEDESTRIAN INTERVAL



100% PLANS



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APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMALPAIS BLVD / SAN CLEMENTE DR ELECTRICAL PLAN

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-2.1 |
| | | SHEET NO. | 6 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 7 |
| #14 | Ø1 | | | | | 3 | 3 |
| | Ø2 | | 3 | 3 | 3 | 6 | 3 |
| | Ø6 | | | | | 3 | |
| | Ø8 | 3 | 3 | 3 | 3 | 6 | |
| | Ø2P | 2 | 2 | 2 | 2 | 4 | 2 |
| | Ø8P | | 2 | 2 | 2 | 2 | |
| | Ø2 APS | 1 | 1 | 1 | 1 | 2 | 1 |
| | Ø8 APS | | 1 | 1 | 1 | 1 | |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 3 | 6 | 3 |
| TOTAL #14 | 10 | 16 | 16 | 16 | 35 | 13 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 2 | 1 |
| | LUMINAIRES | | 2 | 2 | 2 | 2 | 2 |
| | TOTAL #10 | 1 | 3 | 3 | 3 | 4 | 3 |
| VIDEO DETECTION | CABLE | | 1 | 1 | 2 | 3 | |
| | | | | | | | |
| EVP | EVA | | | | | 1 | 1 |
| | EVB | | 1 | 1 | 1 | 1 | |
| | EVC | | | | 1 | 1 | |
| | TOTAL EVP | 0 | 1 | 1 | 2 | 3 | 1 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|--------------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | HPS LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 15 | | 12' | 150 | | SV-2-T | SP-1-T | Ø2P | → | |
| (B) | 26-3-70 | 40' | 12' | 150 | MAS MAS | SV-2-T (NEW) | | | | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø6 & Ø8). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATES (2). |
| (C) | 17-2-70 | 20' | 12' | 150 | MAS | SV-1-T | SP-1-T | Ø8P | ← | |
| (D) | PBA POST | | | | | | | Ø8P | | EXIST PPB TO REMAIN |
| (E) | 17-2-70 | 20' | 12' | 150 | MAS | SV-1-T (NEW) | SP-1-T | | | REPLACE (E) 3S8" WITH (N) 3S12" (Ø2). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE. |
| (F) | PBA POST | | | | | | | Ø8P | ← | |
| (G) | 1-B | | | | | TV-2-T (NEW) | SP-1-T | Ø2P | → | REPLACE (E) 3S8" WITH (N) 3S12" (Ø8). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATES (2). |

*ALL APS SHALL BE NEW

100% PLANS

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APPROVED: DP

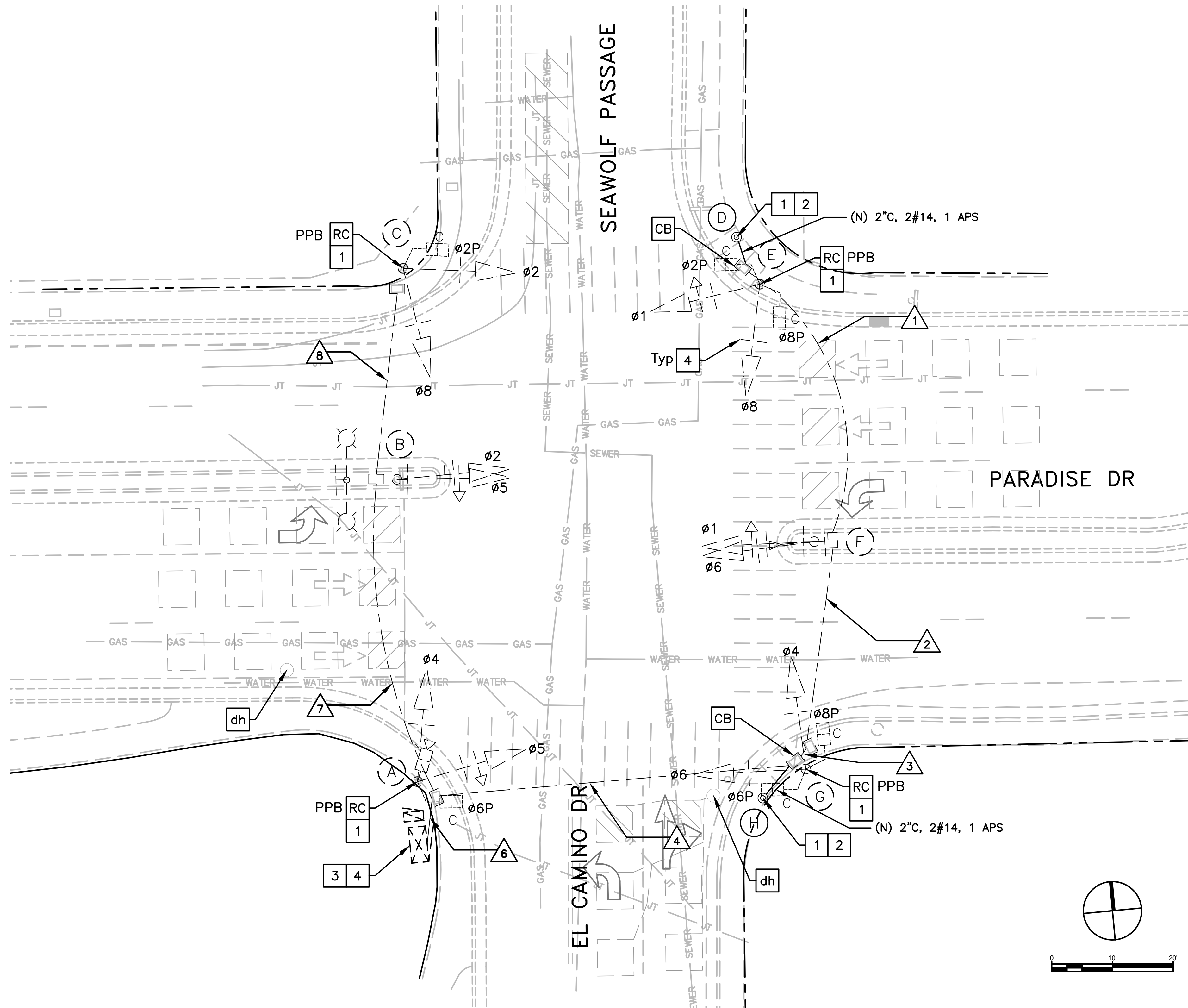


COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMALPAIS BLVD / SAN CLEMENTE DR ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------------|-------------|------------|-------|
| 1 | | 10/01/2021 | N/A |
| PTC PROJECT NO. | | 20036 | |
| DRAWING | | E-2.2 | |
| SHEET NO. | | 7 OF 104 | |
| NO. | DESCRIPTION | | |



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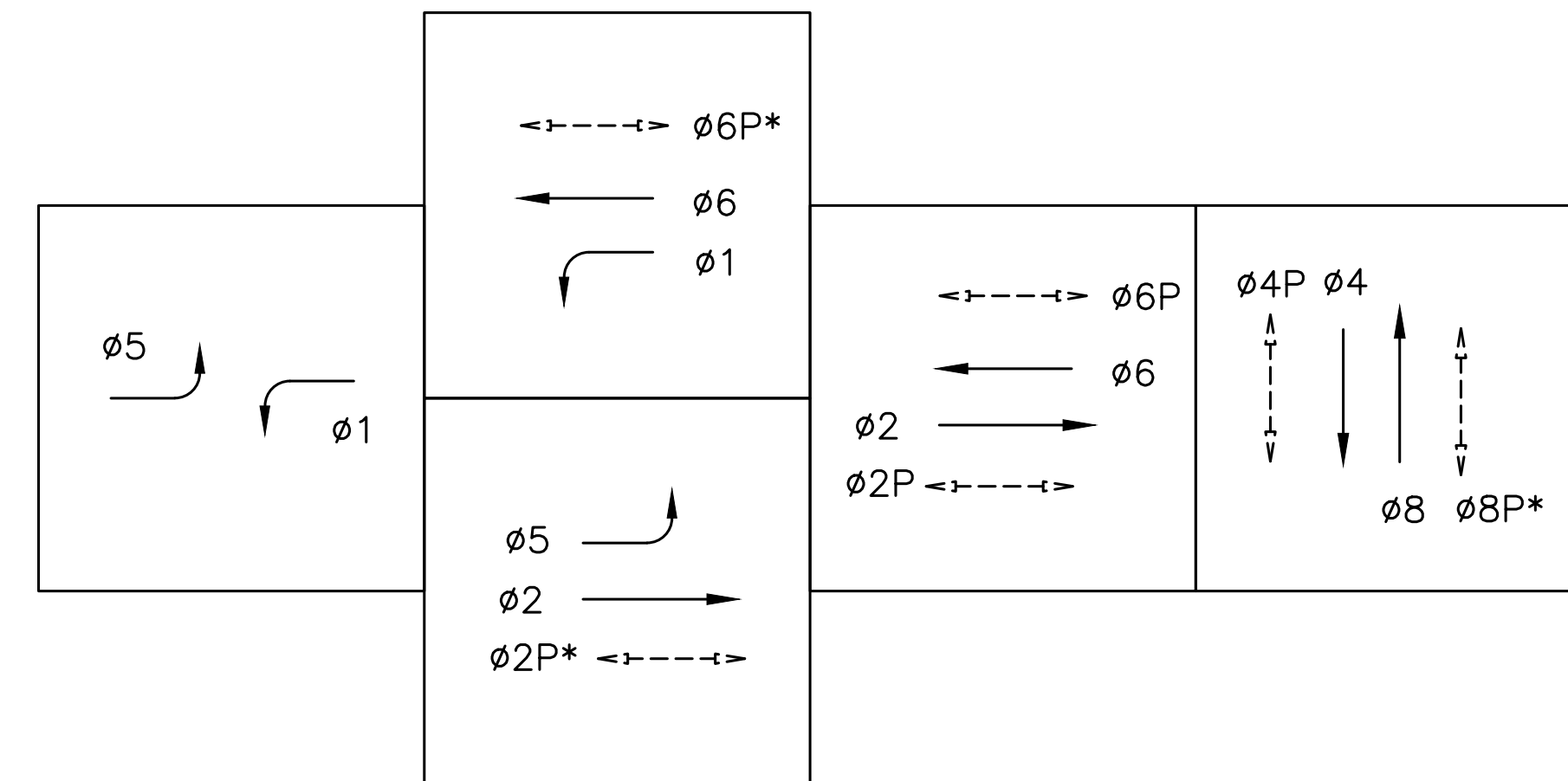
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB INSTALL CONDUIT INTO EXISTING PULL BOX
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR
- 1 INSTALL APS
- 2 INSTALL NEW PBA POST
- 3 INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 4 APPLY REFLECTIVE TAPE ON EXISTING BACKPLATES (12 TOTAL)

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE
 *LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
PARADISE DR / EL CAMINO DR / SEAWOLF PASSAGE ELECTRICAL PLAN

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-3.1 |
| | | SHEET NO. | 8 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | |
| | | RUN NUMBER | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 6 | 7 | 8 |
| #14 | ∅1 | 3 | 3 | 3 | 3 | 3 | | |
| | ∅2 | | | | | 3 | 3 | 3 |
| | ∅4 | | | 3 | 3 | 3 | | |
| | ∅5 | | | | | 6 | 3 | |
| | ∅6 | | | 3 | 3 | 3 | | |
| | ∅8 | 3 | 3 | 3 | 3 | 6 | 3 | 3 |
| | ∅2P | 2 | 2 | 2 | 2 | 4 | 2 | 2 |
| | ∅6P | | | 2 | 2 | 2 | | |
| | ∅8P | 2 | 2 | 2 | 2 | 2 | | |
| | ∅2 APS | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | ∅6 APS | | | 1 | 1 | 1 | | |
| | ∅8 APS | 1 | 1 | 1 | 1 | 1 | | |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 3 | 6 | 3 | 3 |
| TOTAL #14 | | 16 | 16 | 25 | 25 | 44 | 16 | 13 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | TOTAL #10 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| VIDEO DETECTION | CABLE | | | | | 1 | | |
| | | | | | | | | |
| DLC | ∅1 | | | | | 1 | 1 | |
| | ∅2 | 1 | 1 | 1 | 1 | 1 | | |
| | ∅5 | | 1 | 1 | 1 | 1 | | |
| | ∅6 | | | | | 1 | | |
| | ∅8 | | | | 1 | 1 | | |
| TOTAL DLC | 1 | 2 | 2 | 3 | 5 | 1 | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|------------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| | | | | | | | | | | |
| (A) | 1-B | | | | | TV-2-T | SP-1-T | ∅2P | ← | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (B) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (C) | 1-B | | | | | TV-2-T | SP-1-T | ∅6P | → | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (D) | PBA POST (NEW) | | | | | | | ∅6P | ← | |
| (E) | 1-B | | | | | TV-2-T | SP-2-T | ∅8P | → | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (F) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (G) | 1-B | | | | | TV-2-T | SP-2-T | ∅8P | ← | INSTALL REFLECTIVE TAPE ONTO EXISTING BACKPLATES (2) |
| (H) | PBA POST (NEW) | | | | | | | ∅2P | → | |

*ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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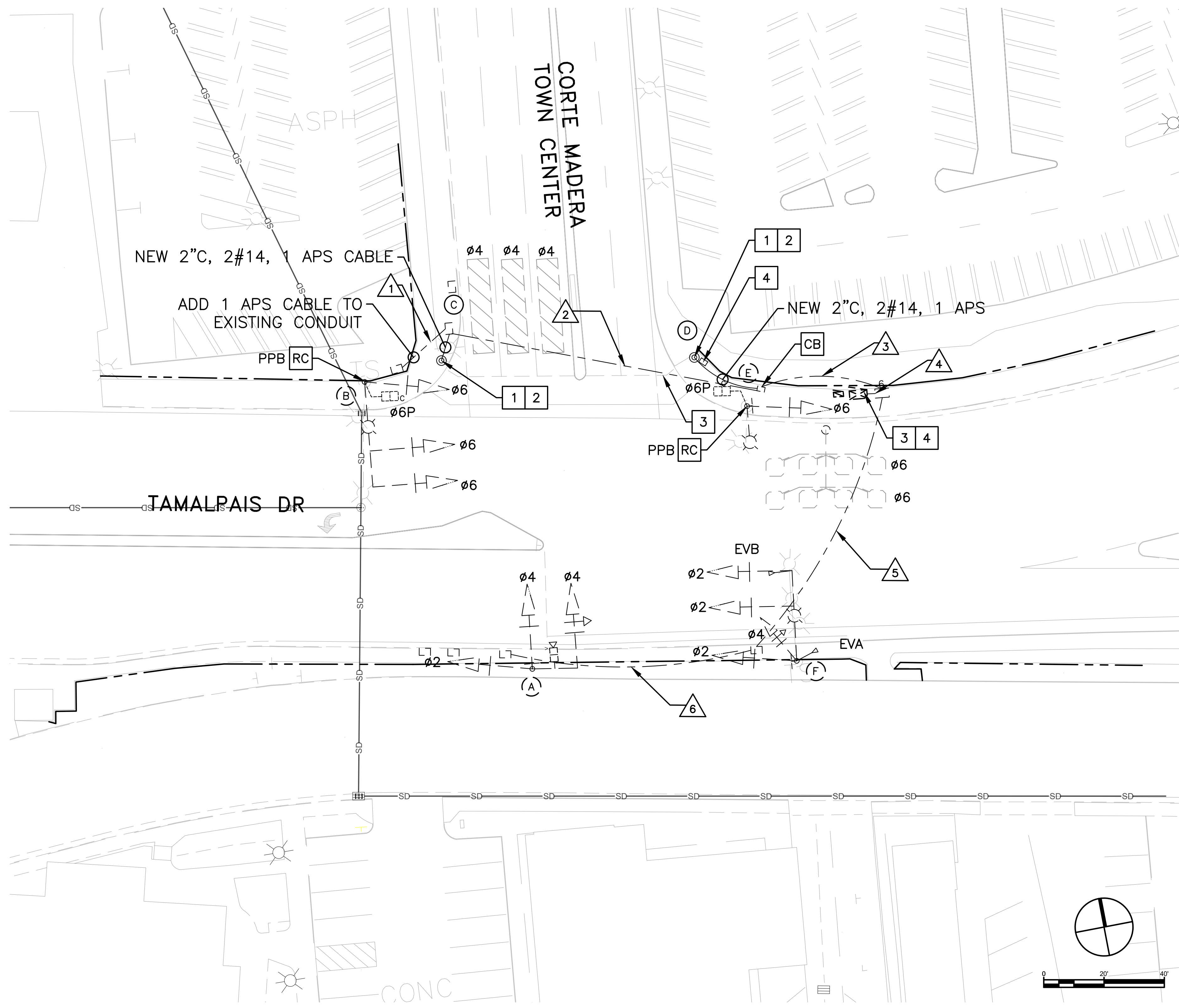
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Berkeley CA 94704
(510) 343-6400

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CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
PARADISE DR / EL CAMINO DR / SEAWOLF PASSAGE ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------------|-------------|------------|-------|
| 1 | | 10/01/2021 | N/A |
| PTC PROJECT NO. | | 20036 | |
| DRAWING | | E-3.2 | |
| SHEET NO. | | 9 OF 104 | |
| NO. | DESCRIPTION | | |



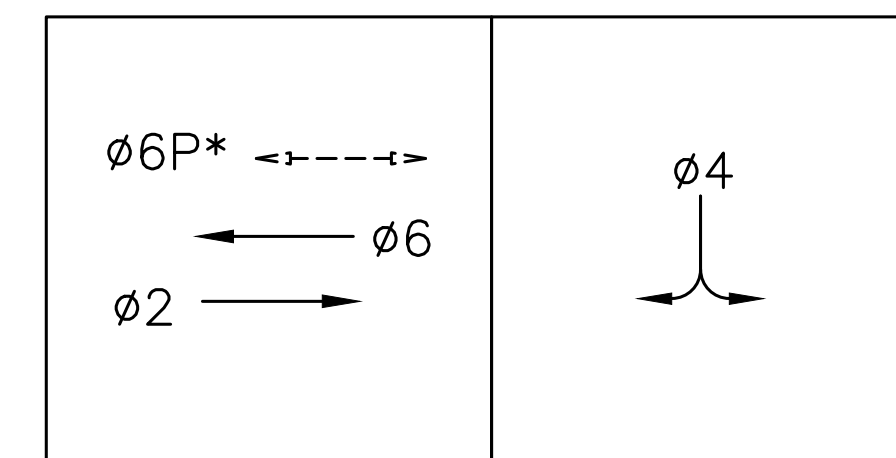
GENERAL NOTES (THIS SHEET ONLY)

1. EXISTING BACKPLATES HAVE REFLECTIVE TAPE INSTALLED.
2. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
3. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.
4. LOCATION IS SUBJECT TO CALTRANS ENCROACHMENT PERMIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR
- 1** INSTALL NEW PBA POST
- 2** INSTALL APS
- 3** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 4** INSTALL NEW No 5 PULL BOX

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →
 *LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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 (510) 343-6400

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 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



**COUNTY OF MARIN - TOWN OF CORTE MADERA
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 TAMALPAIS DR / CORTE MADERA TOWN CENTER ELECTRICAL PLAN**

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-4.1 |
| | | SHEET NO. | 10 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 |
| #14 | ∅2 | | | | 3 | 3 | 3 |
| | ∅4 | | | | 3 | 3 | 3 |
| | ∅6 | 3 | 3 | 3 | 3 | | |
| | ∅6P | 2 | 2 | 2 | 2 | | |
| | ∅6 APS | | 1 | 1 | 1 | | |
| | APS COMMON | 1 | 1 | 1 | 2 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 6 | 3 | 3 |
| | TOTAL #14 | 9 | 10 | 10 | 20 | 10 | 10 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 2 | 1 | 1 |
| | LUMINAIRES | 2 | 2 | 2 | 2 | 1 | |
| | TOTAL #10 | 3 | 3 | 3 | 4 | 2 | 1 |
| VIDEO DETECTION | CABLE | | | | 1 | 1 | 1 |
| | | | | | | | |
| DLC | ∅6 | | | | 1 | | |
| | TOTAL DLC | | | | 1 | | |
| EVP | EVA | | | | 1 | 1 | |
| | EVB | | | | 1 | 1 | |
| | TOTAL EVP | 0 | 0 | 0 | 2 | 2 | 0 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|-------|----------------------|
| LOCATION | STANDARD | | | HPS LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | 16-1-70 | 15 | | | MAS | SV-2-T | | | | |
| (B) | 24-3-70 | 35 | 12 | 200 | MAS MAS | SV-1-T | SP-1-T | | | |
| (C) | PBA POST (NEW) | | | | | | | 6P | → | |
| (D) | PBA POST (NEW) | | | | | | | 6P | ← | |
| (E) | 15 | | 12 | 200 | | SV-1-T | SP-1-T | | | |
| (F) | 19-2-70 | 30 | 12 | 200 | MAS MAS | SV-2-T | | | | |

* ALL APS SHALL BE NEW

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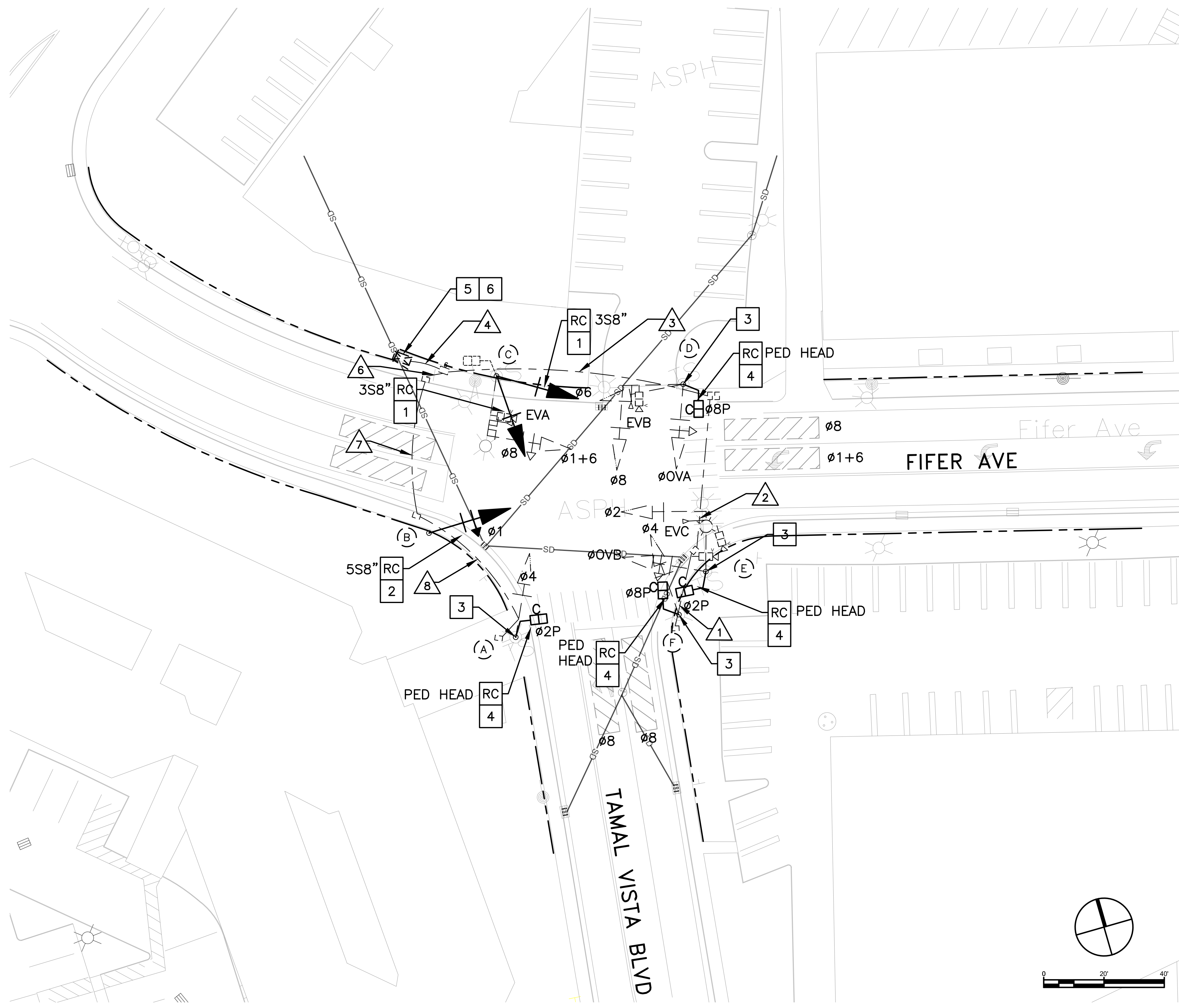
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APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMALPAIS DR / CORTE MADERA TOWN CENTER ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △ | | 10/01/2021 | N/A |
| △ | | | |
| △ | | | |
| △ | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-4.2
SHEET NO. 11 OF 104



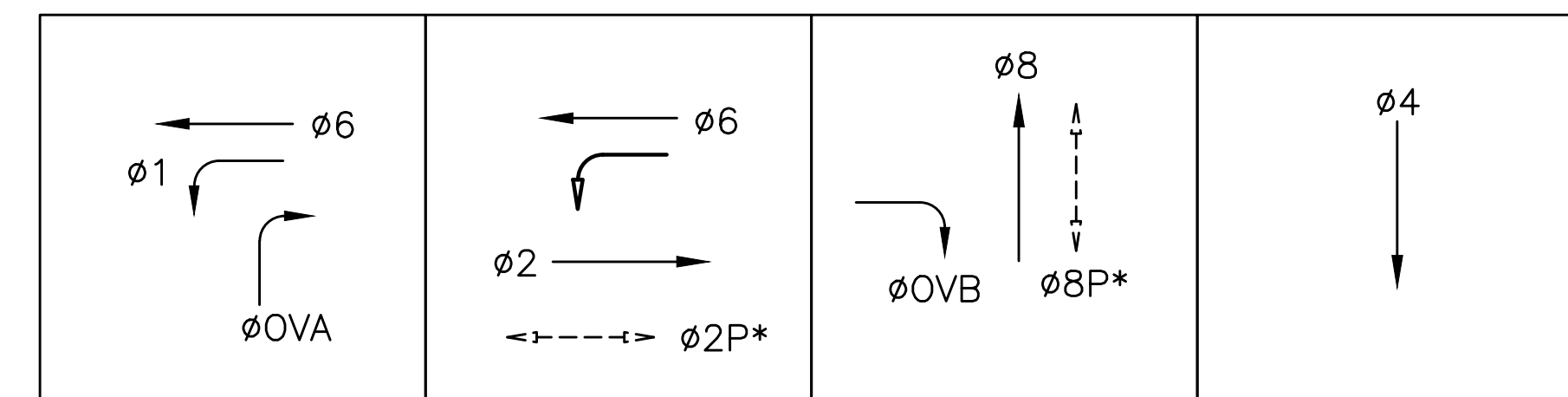
GENERAL NOTES (THIS SHEET ONLY)

- EXISTING BACKPLATES HAVE REFLECTIVE TAPE INSTALLED.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

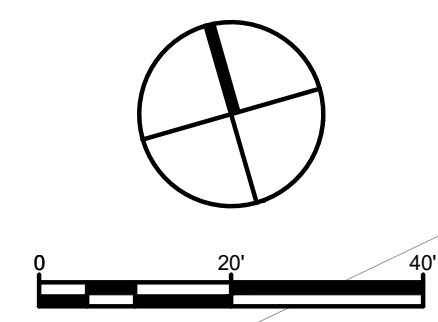
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE. APPLY 2" REFLECTIVE TAPE TO NEW BACKPLATES (2 TOTAL).
- 2** INSTALL NEW 5-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE. APPLY 2" REFLECTIVE TAPE TO NEW BACKPLATE (1 TOTAL).
- 3** INSTALL APS.
- 4** INSTALL PEDESTRIAN COUNTDOWN HEAD.
- 5** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

*LPI - LEADING PEDESTRIAN INTERVAL



100% PLANS



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DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMAL VISTA BLVD / FIFER AVE ELECTRICAL PLAN

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-5.1 |
| | | SHEET NO. | 12 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | |
| | | RUN NUMBER | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 |
| #14 | ∅1 | | | | 3 | 3 | 3 | 3 | |
| | ∅2 | | 3 | 3 | 3 | | | | |
| | ∅4 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 |
| | ∅6 | | | | 3 | 3 | | | |
| | ∅8 | | | 3 | 6 | 3 | | | |
| | ∅OVA | | | 3 | 3 | | | | |
| | ∅OVB | | 3 | 3 | 3 | | | | |
| | ∅2P | | 2 | 2 | 4 | 2 | 2 | 2 | 2 |
| | ∅8P | 2 | 2 | 2 | 2 | | | | |
| | ∅2 APS | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | ∅8 APS | | 1 | 1 | 1 | | | | |
| | APS COMMON | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 |
| | TOTAL #14 | 10 | 19 | 25 | 44 | 19 | 13 | 13 | 10 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | LUMINAIRES | | 2 | 2 | 2 | | | | |
| | TOTAL #10 | 1 | 3 | 3 | 4 | 1 | 1 | 1 | 1 |
| VIDEO DETECTION | CABLE | | 2 | 3 | 4 | | | | |
| | | | | | | | | | |
| EVP | EVA | | | | 1 | | | | |
| | EVB | | | 1 | 1 | | | | |
| | EVC | | 1 | 1 | 1 | | | | |
| | TOTAL EVP | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|----------------------|--------------------|--------------------------------------|-------|---|
| LOCATION | STANDARD | | | HPS LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | 1-B | | | | | TV-1-T | SP-1-T | 2P | ← | |
| (B) | 1-B | | | | | TV-1-T, 5-SECT (NEW) | | | | REPLACE (E) 5S8"L WITH (N) 5S12"L (∅1). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE (1-5S12"). |
| (C) | 16-2-70 | 20 | | | MAS | SV-2-T (NEW) | SP-1-T | | | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (∅6 & ∅8). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATES (2). |
| (D) | 16-1-70 | 20 | | | MAS | SV-1-T | SP-2-T | 8P | → | |
| (E) | 17A-2-70 | 20 | 15 | 200 | MAS | SV-1-T | SP-1-T | 8P | ← | |
| (F) | 1-B | | | | | TV-1-T | SP-1-T | 2P | → | |

- * ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE.
- ** ALL APS SHALL BE NEW.

100% PLANS



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DRAWN: BA, DH
DESIGNED: BA, EC

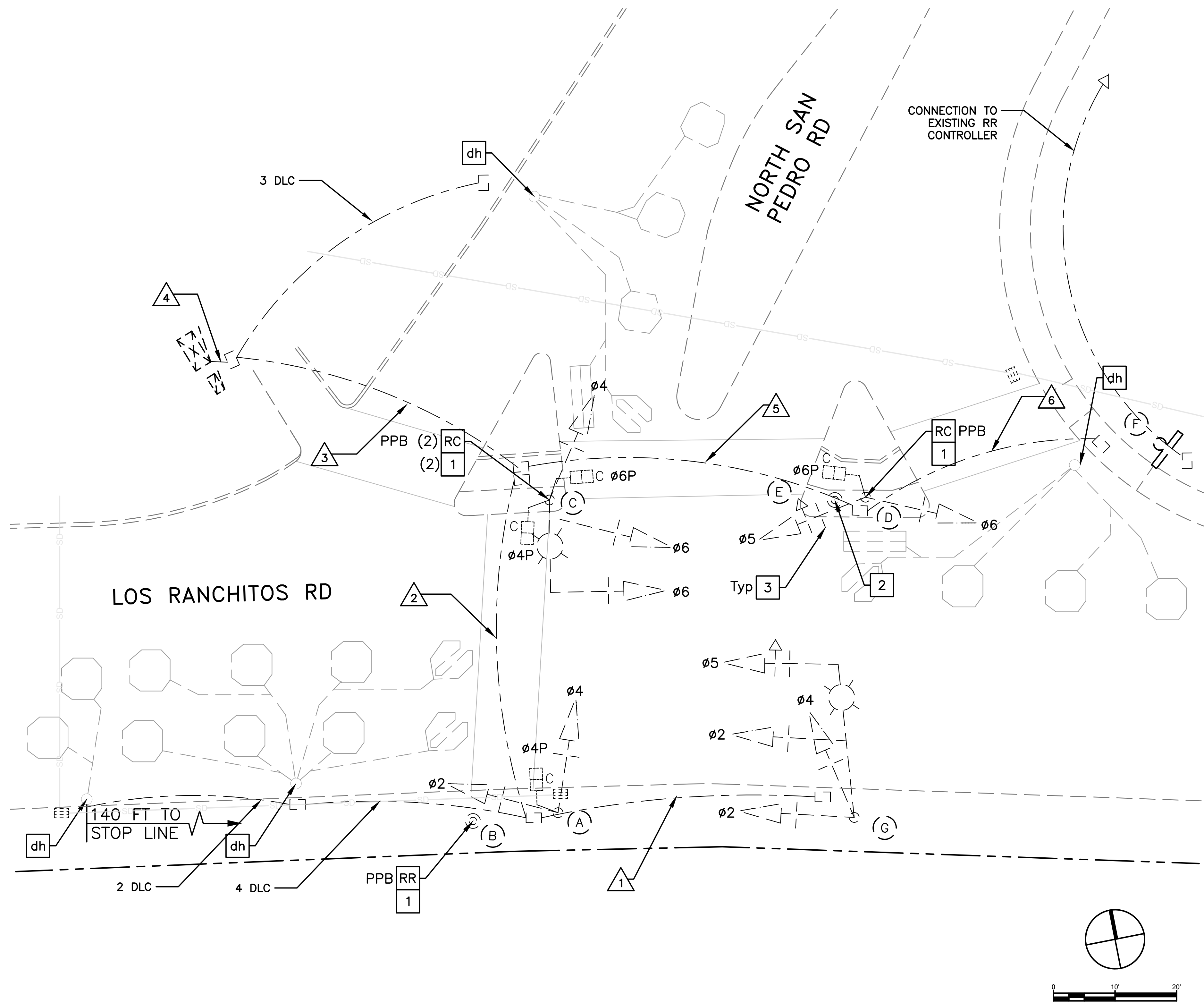
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
TAMAL VISTA BLVD / FIFER AVE ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-5.2
SHEET NO. 13 OF 104



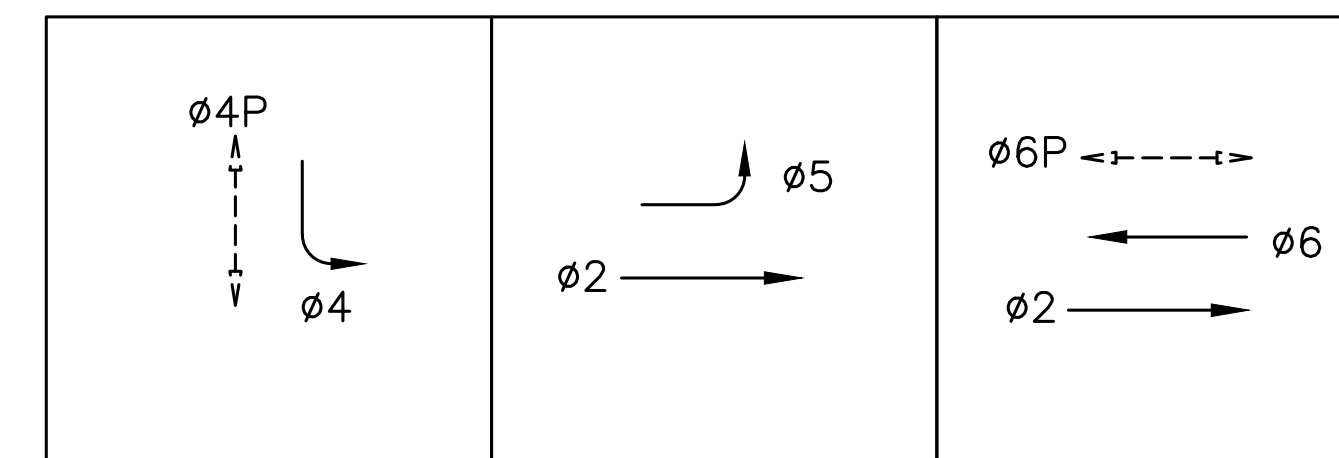
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. COVER HOLES LEFT BY RELOCATED APS/PPB WITH A METAL PLATE.
3. R/W SHOWN IS APPROXIMATE.
4. LOCATION IS SUBJECT TO SMART ENCROACHMENT PERMIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- RR REMOVE AND REUSE EQUIPMENT.
- dh DETECTOR HANDHOLE (EXISTING).
- 1 INSTALL NEW APS.
- 2 INSTALL REUSED PPB ON EXISTING PBA POST FOR BICYCLE ACTUATION.
- 3 INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (11 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

100% PLANS

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DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
LOS RANCHITOS RD / N. SAN PEDRO RD ELECTRICAL PLAN

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-6.1 |
| | | SHEET NO. | 14 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | |
|--------------------|---------------|----------------------|------|------|------|------|------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX 1 | EX 2 | EX 3 | EX 4 | EX 5 | EX 6 |
| #14 | Ø2 | 3 | 3 | 3 | 3 | | |
| | Ø4 | 3 | 3 | 3 | 3 | | |
| | Ø5 | 3 | 3 | 6 | 6 | 3 | |
| | Ø6 | | | 3 | 3 | 3 | |
| | Ø4P | | 2 | 2 | 2 | | |
| | Ø6P | | | 2 | 2 | 2 | |
| | Ø4P APS | | 1 | 1 | 1 | | |
| | Ø6P APS | | | 1 | 1 | 1 | |
| | APS COMMON | | 1 | 2 | 2 | 1 | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | |
| TOTAL #14 | | 12 | 16 | 26 | 26 | 13 | |
| #10 | LUMINAIRES | 2 | 2 | 2 | 2 | | |
| | SIGNAL COMMON | 1 | 1 | 2 | 2 | 2 | |
| | TOTAL #10 | 3 | 3 | 4 | 4 | 2 | |
| DLC | Ø2 | | 2 | 2 | 2 | | |
| | Ø4 | | | | 2 | | |
| | Ø5 | | 2 | 2 | 2 | | |
| | Ø6 | | | 1 | 1 | 1 | 1 |
| | TOTAL DLC | 0 | 4 | 5 | 7 | 1 | 1 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|--------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 1-B | | | | | SV-2-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (B) | PBA POST | | | | | | | 4P | → | |
| (C) | 17A-2-70 | 15 | 15 | 65 | MAS | SV-2-T | SP-2-T | 4P 6P | → ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (D) | 1-B | | | | | TV-2-T | SP-1-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (E) | PBA POST | | | | | | | 6P | ← | INSTALL REUSED PPB FOR BICYCLE ACTUATION (NOT A NEW APS) |
| (F) | 1-B | | | | | TV-1-T | | | | EXIST R3-1 BLANKOUT SIGN |
| (G) | 19A-4-70 | 25 | 15 | 65 | MAT MAT | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4) |

* ALL APS SHALL BE NEW

100% PLANS

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DESIGNED: BA, EC

CHECKED: AL
APPROVED: DP



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
LOS RANCHITOS RD / N. SAN PEDRO RD ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-6.2 |
| | | SHEET NO. | 15 OF 104 |



100% PLANS

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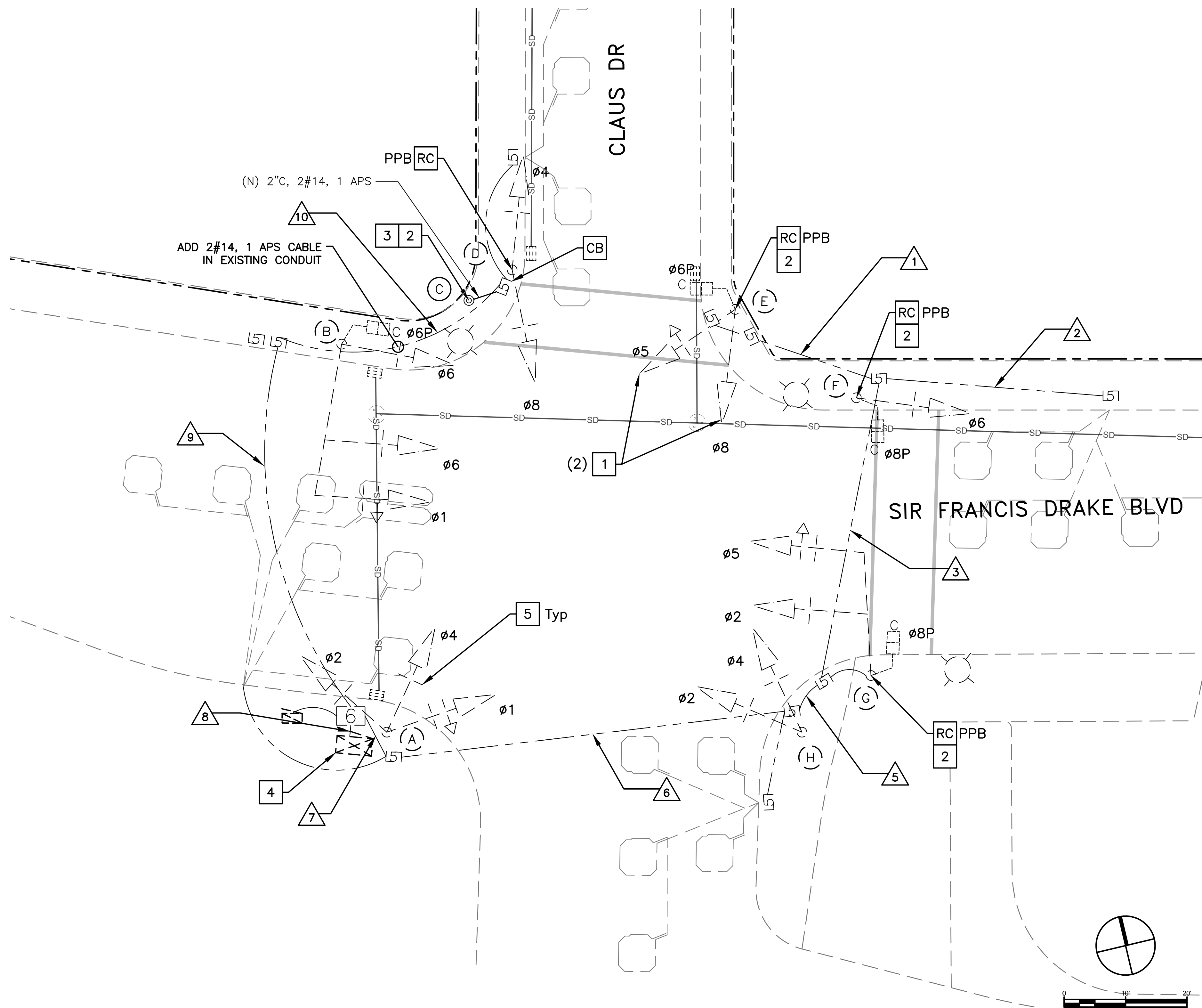
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|------------------|--------------|
| DRAWN: BA, DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - TOWN OF FAIRFAX
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / CLAUS DR ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-7.1 |
| | | SHEET NO. | 16 OF 104 |



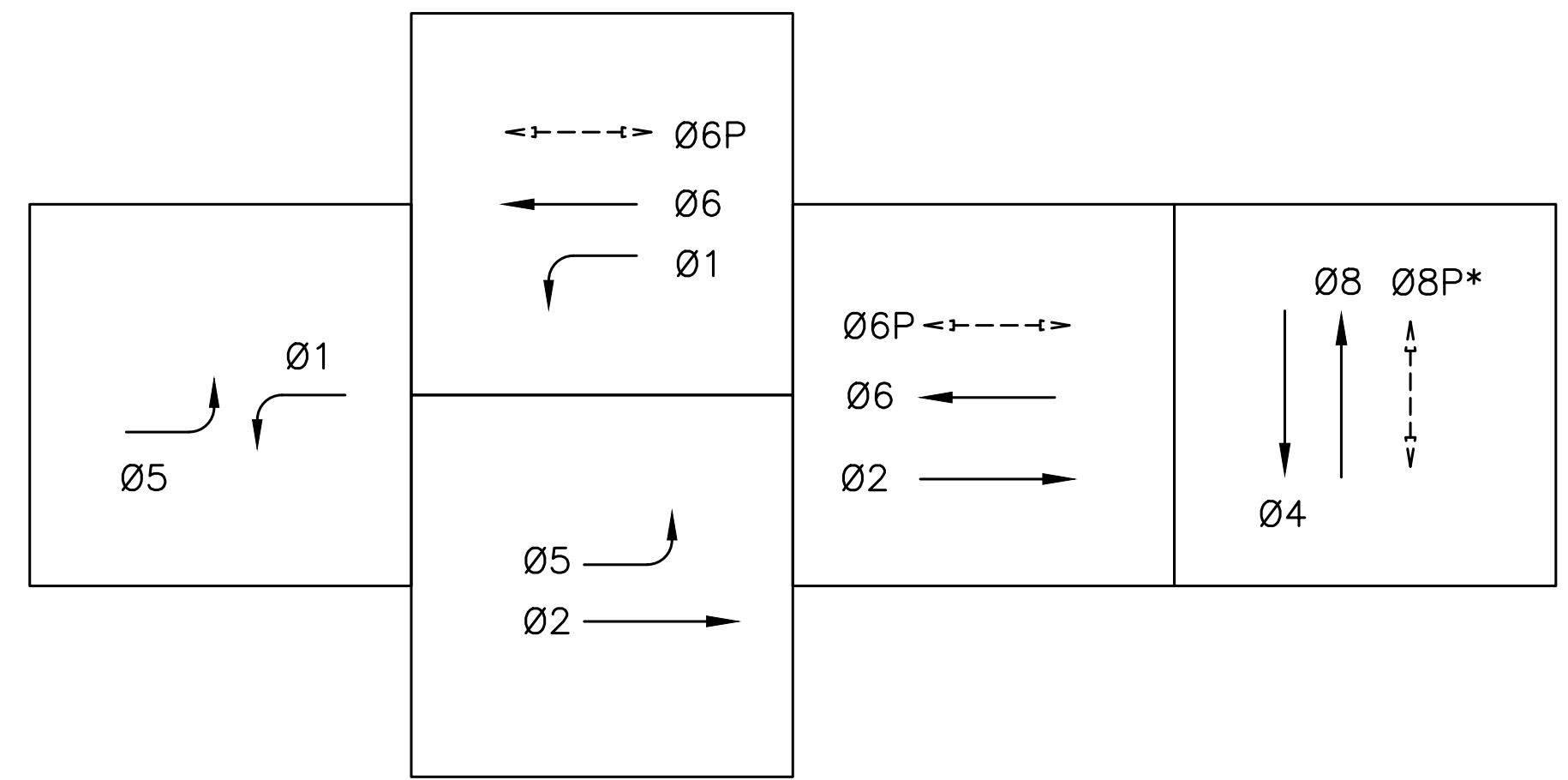
GENERAL NOTES (THIS SHEET ONLY)

- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW BACKPLATE ON NEW MOUNTING HARDWARE (2 TOTAL).
- 2** INSTALL APS.
- 3** INSTALL PBA POST.
- 4** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 5** INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (13 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL



| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| #14 | Ø1 | | | | | | | 3 | 6 | 3 | |
| | Ø2 | | | | 3 | 3 | 3 | 3 | 3 | | |
| | Ø4 | | | | | 3 | 3 | 3 | 6 | 3 | 3 |
| | Ø5 | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | | |
| | Ø6 | | | 3 | 3 | 3 | 3 | 3 | 6 | 3 | |
| | Ø7 | | | | | | | | | | |
| | Ø8 | 3 | | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 |
| | Ø6P | 2 | | 2 | 2 | 2 | 2 | 2 | 4 | 2 | |
| | Ø8P | | | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | Ø6 APS | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | |
| | Ø8 APS | | | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | APS COMMON | 1 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | SPARES | 3 | | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 |
| | TOTAL #14 | | 13 | 0 | 19 | 22 | 25 | 25 | 28 | 47 | 19 |
| #10 | SIGNAL COMMON | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | TOTAL #10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| DLC | Ø1 DLC | | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| | Ø2 DLC | | | | | | | 1 | 1 | | |
| | Ø4 DLC | | | | | | | | 1 | 1 | 1 |
| | Ø5 DLC | | | | | | | 1 | 1 | | |
| | Ø6 DLC | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | Ø8 DLC | | | | | | | 1 | 1 | 1 | |
| TOTAL | | 0 | 2 | 2 | 2 | 2 | 3 | 5 | 6 | 1 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 1-B | | | | | TV-3-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (B) | 18-3-70 | 25 | | | MAS MAS | SV-1-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (C) | PBA POST (NEW) | | | | | | | 6P | → | |
| (D) | 1-B | | | | | TV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (E) | 1-B | | | | | TV-2-T (NEW) | SP-1-T | 6P | ← | REPLACE (E) TV-2-T WITH (N) TV-2-T AND 2 BACKPLATES. (E) SIGNAL HEADS TO REMAIN. INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2). |
| (F) | 1-B | | | | | TV-1-T | SP-1 | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (G) | 16-3-70 | 20 | | | MAS MAS | | SP-1 | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (H) | 1-B | | | | | TV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |

*ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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DESIGNED: BA, EC

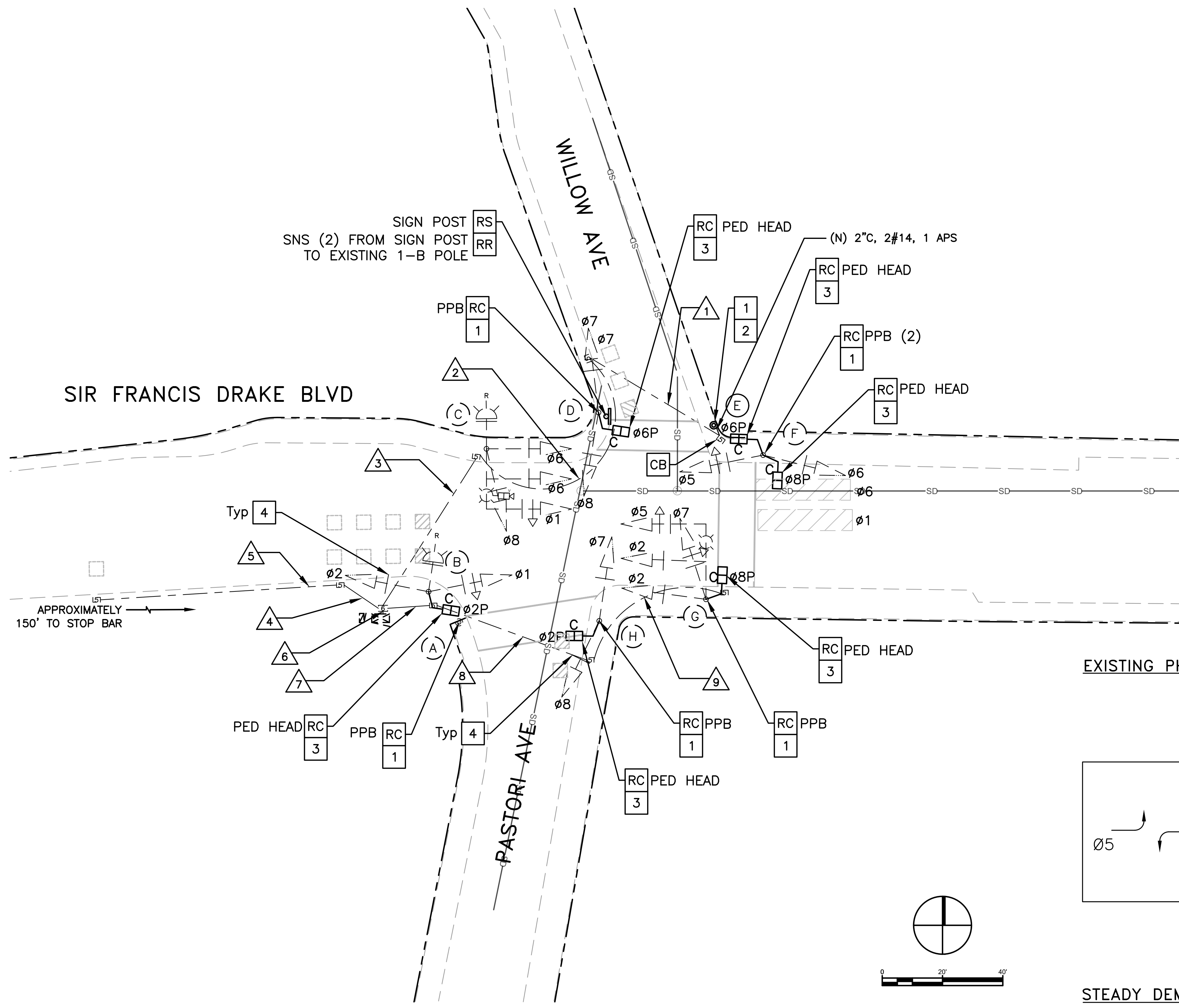
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - TOWN OF FAIRFAX
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / CLAUS DR ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-7.2 |
| | | SHEET NO. | 17 OF 104 |



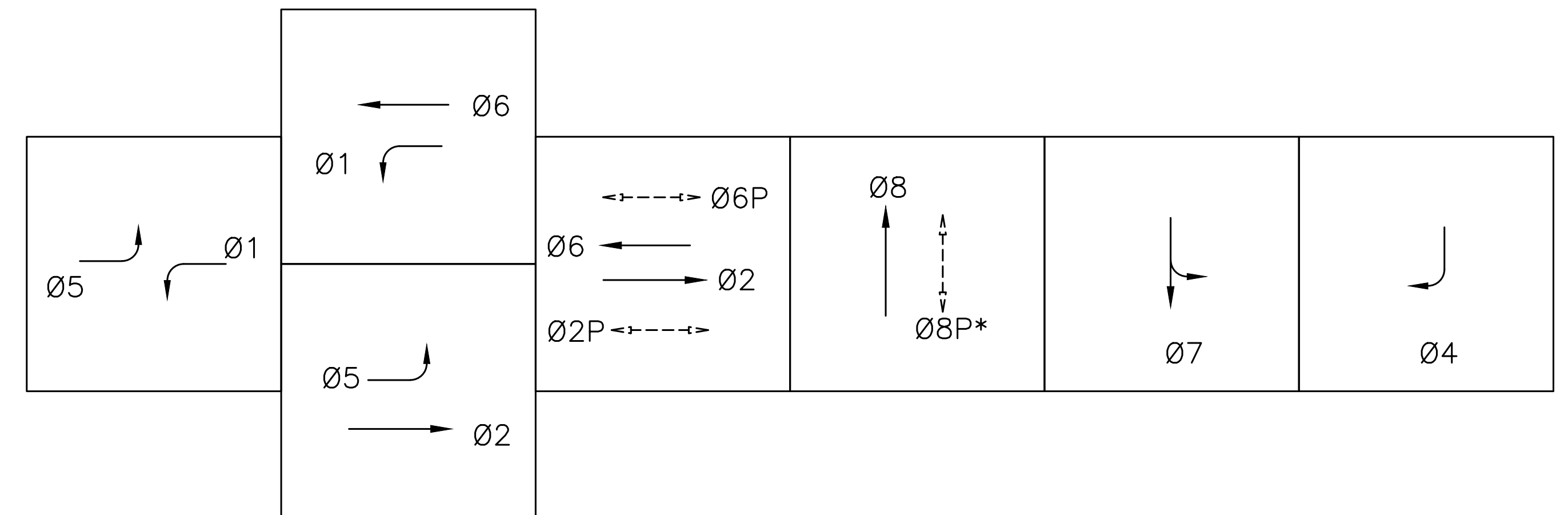
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- RR REMOVE AND REUSE EQUIPMENT.
- RS REMOVE AND SALVAGE EQUIPMENT.
- 1 INSTALL APS.
- 2 INSTALL PBA POST.
- 3 INSTALL PEDESTRIAN COUNTDOWN HEAD.
- 4 INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (16 TOTAL EXCLUDING BEACONS).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

Parisi
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DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF FAIRFAX
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / WILLOW AVE / PASTORI AVE ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-8.1 |
| | | SHEET NO. | 18 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | |
| | | RUN NUMBER | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 |
| #14 | ∅1 | | | 3 | | | 6 | 3 | | |
| | ∅2 | | | | | | 3 | 3 | 3 | 3 |
| | ∅4B | | | 1 | | | 1 | | | |
| | ∅5 | 3 | 3 | 3 | | | 6 | 3 | 3 | 3 |
| | ∅6 | 3 | 3 | 3 | | | 3 | | | |
| | ∅7 | | | | | | 3 | 3 | 3 | 3 |
| | ∅8 | | 3 | 3 | | | 3 | | | |
| | ∅2P | | | | | | 2 | 2 | 2 | |
| | ∅6P | 2 | 2 | 2 | | | 2 | | | |
| | ∅8P | 2 | 2 | 2 | | | 4 | 2 | 2 | 2 |
| | ∅2 APS | | | | | | 1 | 1 | 1 | |
| | ∅6 APS | 1 | 1 | 1 | | | 1 | | | |
| | ∅8 APS | 1 | 1 | 1 | | | 2 | 1 | 1 | 1 |
| | APS COMMON | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 |
| SPARES | 3 | 3 | 3 | | | 3 | 3 | 3 | 3 | |
| TOTAL #14 | 16 | 19 | 23 | 0 | 0 | 41 | 22 | 19 | 16 | |
| #10 | SIGNAL COMMON | | | 1 | | | 1 | 1 | 1 | 1 |
| | LUMINAIRES | | | 1 | | | | | | 1 |
| | TOTAL #10 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 1 | 2 |
| VIDEO DETECTION | CABLE | | | 1 | | | 1 | | | |
| | | | | | | | | | | |
| DLC | ∅2 DLC | | | | 2 | 1 | 2 | | | |
| | ∅4B DLC | | | 1 | | | 1 | | | |
| | ∅5 DLC | | | | | 1 | 1 | | | |
| | ∅7 DLC | | 1 | 1 | | | 1 | | | |
| | ∅8 DLC | | | | | | 1 | 1 | 1 | |
| TOTAL | 0 | 1 | 2 | 2 | 2 | 6 | 1 | 1 | 0 | |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------|--------------------|--------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| | | | | | | | | | | |
| (A) | PBA POST | | | | | | | 2P | → | |
| (B) | 1-B | | | | | TV-3-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2 EXCLUDING BEACON) |
| (C) | 17-3-70 | 20 | 12 | 73 | MAS MAS | SV-3-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4 EXCLUDING BEACON) |
| (D) | 1-B | | | | | TV-2-T | SP-1-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) REINSTALL SNS RELOCATED FROM SIGN POST |
| (E) | PBA POST (NEW) | | | | | | | 6P | ← | |
| (F) | 1-B | | | | | TV-2-T | SP-2-T | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (G) | 19-3-70 | 25 | 12 | 73 | MAS MAS | SV-2-T | SP-1-T | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4) |
| (H) | 1-B | | | | | TV-2-T | SP-1 | 2P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |

- * ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE.
- ** ALL APS SHALL BE NEW.

100% PLANS



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CHECKED: AL
APPROVED: DP

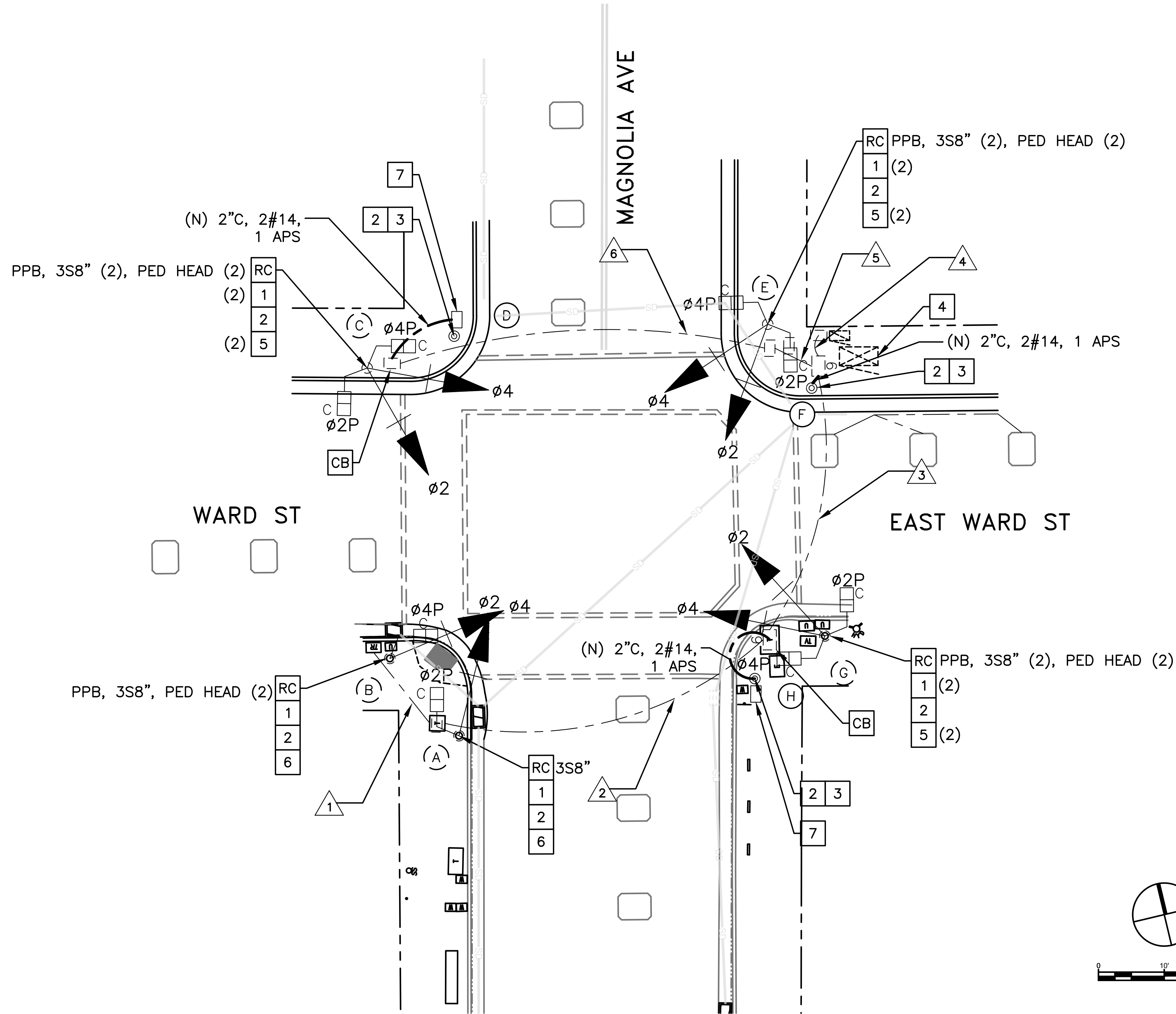


COUNTY OF MARIN - TOWN OF FAIRFAX
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / WILLOW AVE / PASTORI AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-8.2
SHEET NO. 19 OF 104



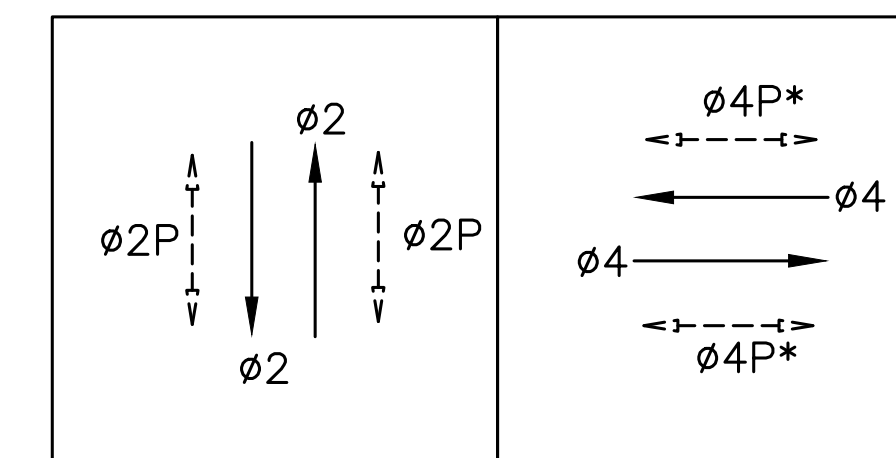
GENERAL NOTES (THIS SHEET ONLY)

1. CONTRACTOR TO INSTALL NEW SIGNAL HEADS WITH STRAP AND BAND METHOD.
2. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
3. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIALS TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL 2\"/>

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

Parisi
TRANSPORTATION CONSULTING
1936 University Ave, Ste 250
Berkeley CA 94704
(510) 343-6400

DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF LARKSPUR
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
MAGNOLIA AVE / WARD ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------------|----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. 20036 | |
| | | DRAWING E-9.1 | |
| | | SHEET NO. 20 OF 104 | |



| CONDUCTOR SCHEDULE | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| #14 | Ø2 | 3 | 3 | 3 | 6 | 3 | 3 |
| | Ø4 | | 3 | 3 | 3 | 3 | 3 |
| | Ø2P | | 2 | 2 | 4 | 2 | 2 |
| | Ø4P | 2 | 2 | 2 | 4 | 2 | 2 |
| | Ø2 APS | 1 | 1 | 1 | 2 | 1 | 1 |
| | Ø4 APS | | 1 | 1 | 2 | 1 | 1 |
| | APS COMMON | 1 | 1 | 1 | 2 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 6 | 3 | 3 |
| | TOTAL #14 | 10 | 16 | 16 | 29 | 16 | 16 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 |
| | LUMINAIRES | | 2 | 2 | 4 | 2 | 2 |
| | TOTAL #10 | 1 | 3 | 3 | 5 | 3 | 3 |
| DLC | Ø2 | | | 1 | 2 | 1 | 1 |
| | Ø4 | 1 | 1 | 1 | 2 | | |
| | TOTAL | 1 | 1 | 2 | 4 | 1 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|--------------------------|--------------|---------------------|---------------------------------------|-------|--|
| LOCATION | STANDARD | | | HPS LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING* | | PED SIGNAL MOUNT.** | ACCESSIBLE PEDESTRIAN SIGNAL (APS)*** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | CONCRETE SLP | | | UNK | | SV-1-T (NEW) | SP-1-T (NEW) | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATE (1) |
| (B) | 1-B | | | | | TV-1-T (NEW) | SP-1-T (NEW) | 2P | → | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATE (1) |
| (C) | CONCRETE SLP | | | UNK | | SV-2-T (NEW) | SP-2-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2) |
| (D) | PBA POST (NEW) | | | | | | | 4P | → | |
| (E) | CONCRETE SLP | | | UNK | | SV-2-T (NEW) | SP-2-T | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2) |
| (F) | PBA POST (NEW) | | | | | | | 2P | → | |
| (G) | CONCRETE SLP | | | UNK | | SV-2-T (NEW) | SP-2-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2) |
| (H) | PBA POST (NEW) | | | | | | | 4P | → | |

SLP - STREET LIGHT POLE

* ALL VEHICLE SIGNALS SHALL BE NEW 3S12"
 ** ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 *** ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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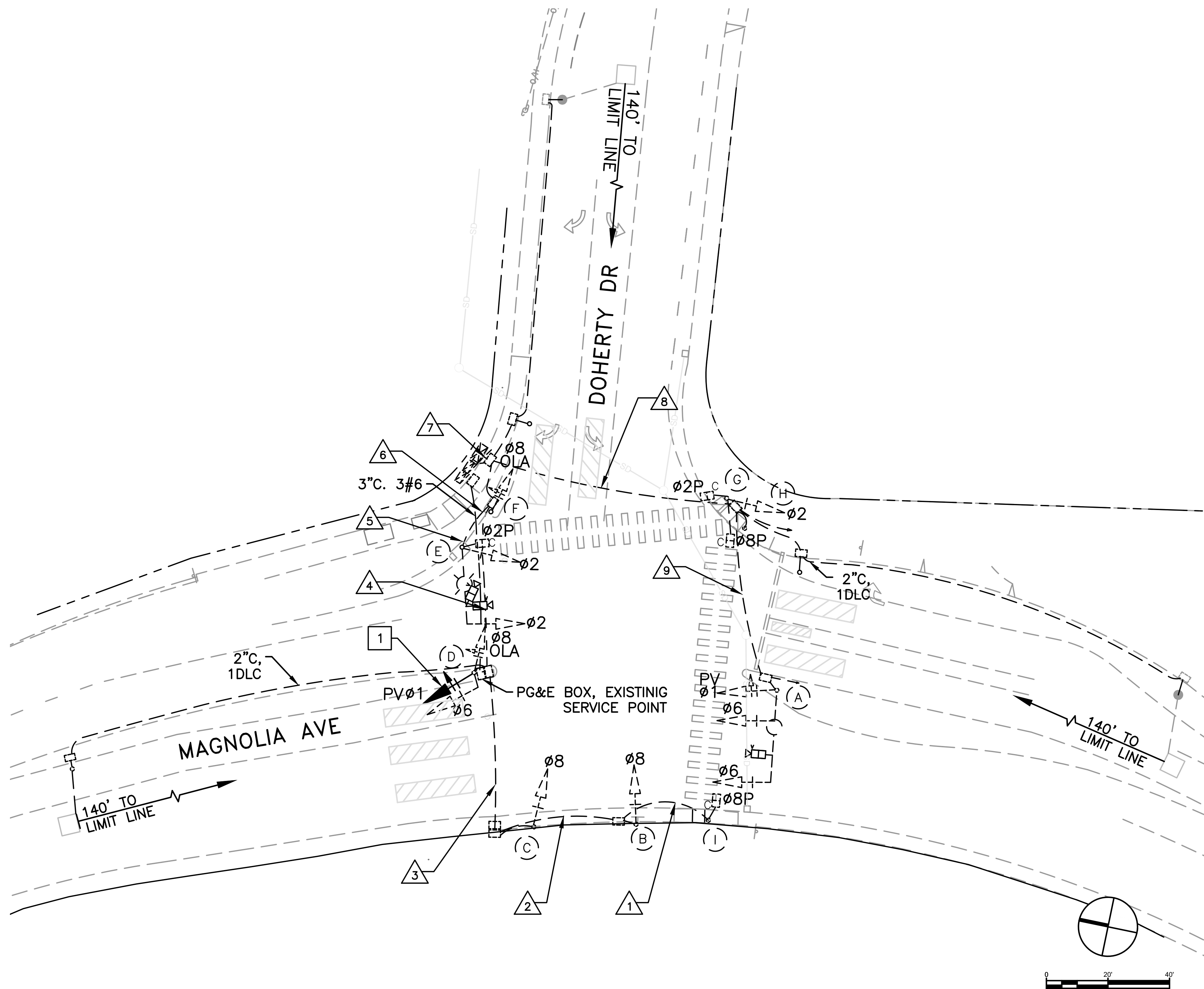
DESIGNED: BA, DH
 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF LARKSPUR
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 MAGNOLIA AVE / WARD ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-9.2 |
| | | SHEET NO. | 21 OF 104 |



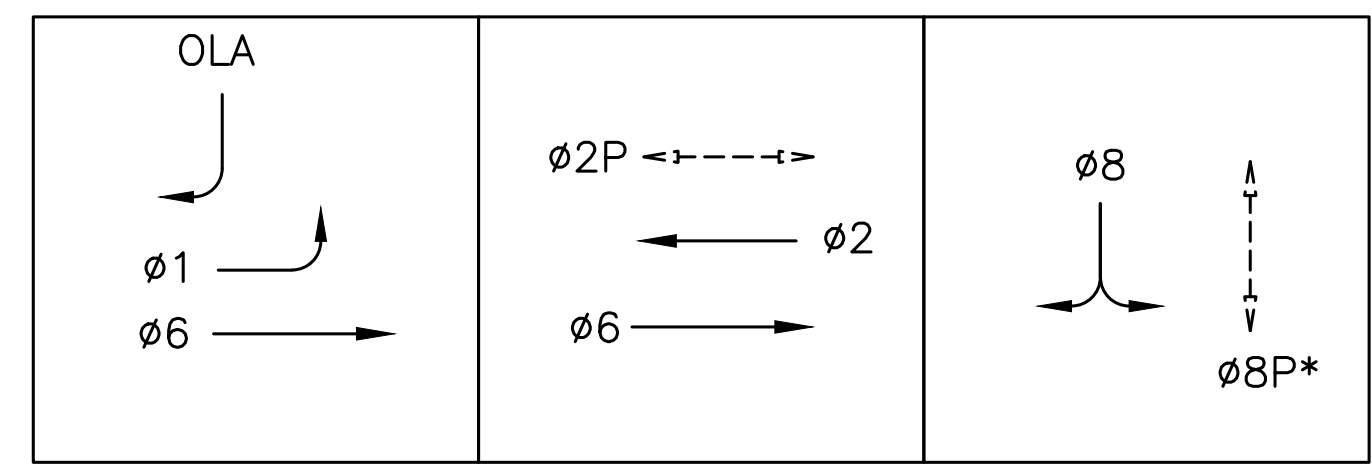
GENERAL NOTES (THIS SHEET ONLY)

1. EXISTING SIGNAL HEAD BACKPLATES HAVE REFLECTIVE TAPE INSTALLED.
2. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE. APPLY 2\"/>

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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| | |
|------------------|--------------|
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| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - CITY OF LARKSPUR
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
MAGNOLIA AVE / DOHERTY DR ELECTRICAL PLAN



| REVISIONS | |
|-----------|-------------|
| NO. | DESCRIPTION |

| | | | |
|-----------------|------------|-------|----------|
| DATE | 10/01/2021 | SCALE | AS SHOWN |
| PTC PROJECT NO. | 20036 | | |
| DRAWING | E-10.1 | | |
| SHEET NO. | 22 OF 104 | | |



| CONDUCTOR SCHEDULE | | | | | | | | | | |
|-----------------------|---------------|----------------------|------|----|----|-----|-----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | |
| | | RUN NUMBER | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| #14 | Ø1 | | | | 3 | | 3 | 6 | 3 | 3 |
| | Ø2 | | | | | 3 | 3 | 6 | 3 | |
| | Ø6 | | | | 3 | | 3 | 6 | 3 | 3 |
| | Ø8 | | 3 | 3 | 3 | | 3 | 3 | | |
| | OLA | | | | 2 | | 2 | 2 | | |
| | Ø2P | | | | | 2 | 2 | 4 | 2 | |
| | Ø8P | 2 | 2 | 2 | 2 | | 2 | 4 | 2 | |
| | Ø2P APS | | | | | | 1 | 2 | 1 | |
| | Ø8P APS | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | |
| | APS COMMON | 1 | 1 | 1 | 1 | | 1 | 2 | 1 | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| TOTAL #14 | 7 | 10 | 10 | 18 | 8 | 24 | 40 | 19 | 9 | |
| #12 DLC | Ø2 | | | | | | 1 | 1 | 1 | |
| | Ø6 | | | | 1 | | 1 | 1 | | |
| | Ø8 | | | | | | 1 | | | |
| | TOTAL | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 1 |
| #10 | LIGHTING | | | | | 2 | 2 | 4 | 2 | 2 |
| | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| | TOTAL #10 | 1 | 1 | 1 | 1 | 3 | 3 | 6 | 3 | 3 |
| VIDEO | | | | | 2 | 2 | 3 | 1 | 1 | |
| CONDUIT SIZE (INCHES) | 1.50 | 1.50 | 1.50 | 2 | 3 | 2-3 | 2-3 | 3 | 3 | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|-----------|-----------------|--------------------|-----------------------|-------------------------|----------------------------------|-------------------|------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS) | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 19-2-70 | 30 | 8 | 101 | MAS MAS | SV-1-T | | | | |
| (B) | 1-B | | | | | TV-1-T | | | | |
| (C) | 1-B | | | | | TV-1-T | | | | |
| (D) | 1-A (12') | | | | | TV-1-T SV-1-T SV-1-T (NEW) | | | | REPLACE (E) 3S8"L WITH (N) PV 3S12"L (Ø1). APPLY 2" REFLECTIVE TAPE TO NEW BACKPLATE (1). |
| (E) | 19-3-70 | 25 | 12 | 151 | MAS | SV-1-T | SP-1-T | | | |
| (F) | 1-B | | | | | TV-1-T | | 2P | → | |
| (G) | 1-B | | | | | TV-1-T | SP-2-T | 2P | ← | |
| (H) | PBA POST | | | | | | | 8P | → | |
| (I) | 1-B | | | | | | SP-1-T | 8P | ← | |

100% PLANS



Know what's below. Call before you dig.

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DESIGNED: BA, EC

CHECKED: AL
APPROVED: DP

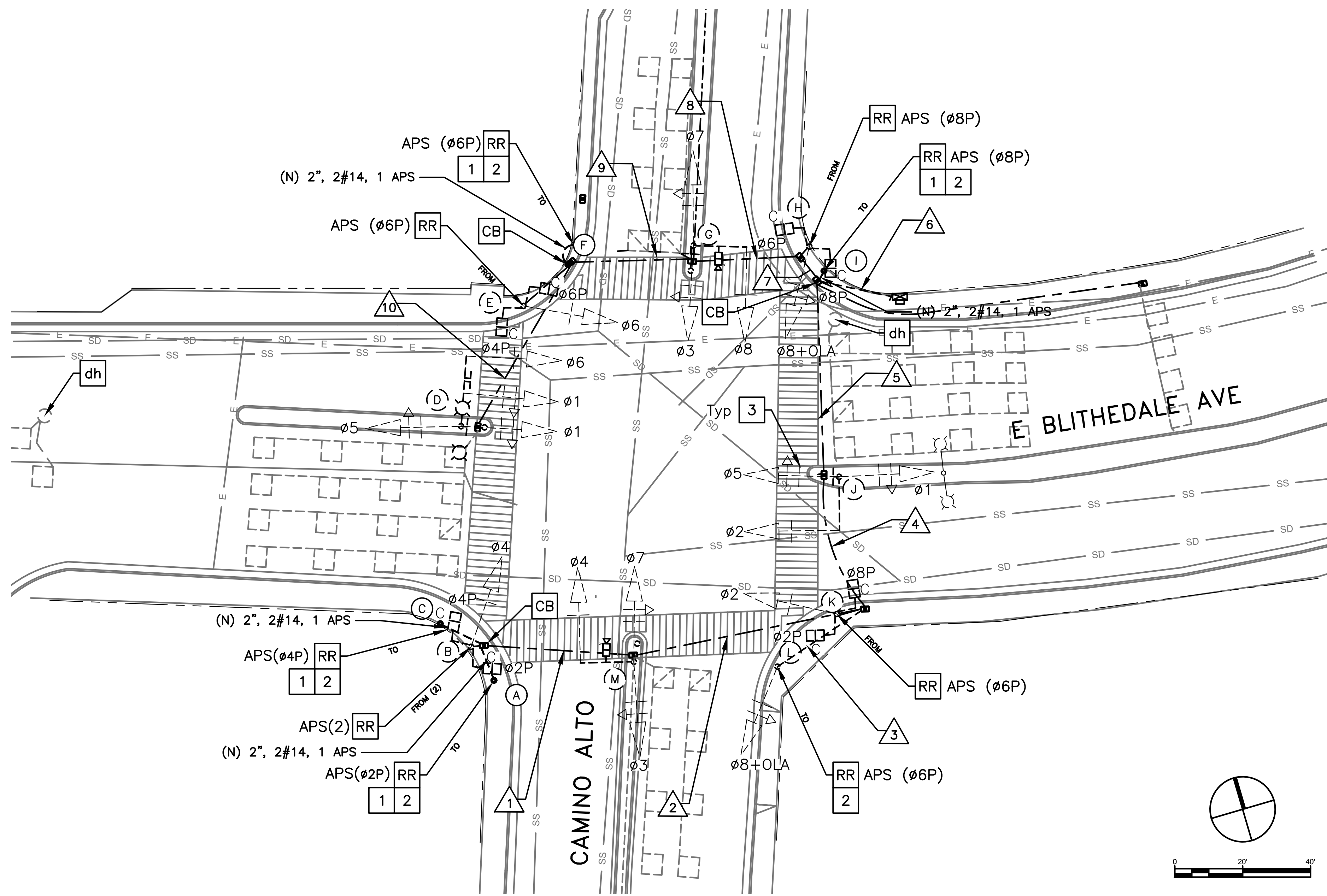


COUNTY OF MARIN - CITY OF LARKSPUR
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
MAGNOLIA AVE / DOHERTY DR ELECTRICAL SCHEDULE



| REVISIONS | |
|-----------|-------------|
| NO. | DESCRIPTION |

| | |
|-----------------|-------|
| DATE | SCALE |
| 10/01/2021 | N/A |
| PTC PROJECT NO. | |
| 20036 | |
| DRAWING | |
| E-10.2 | |
| SHEET NO. | |
| 23 OF 104 | |

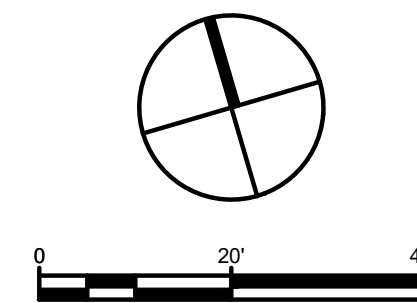


GENERAL NOTES (THIS SHEET ONLY)

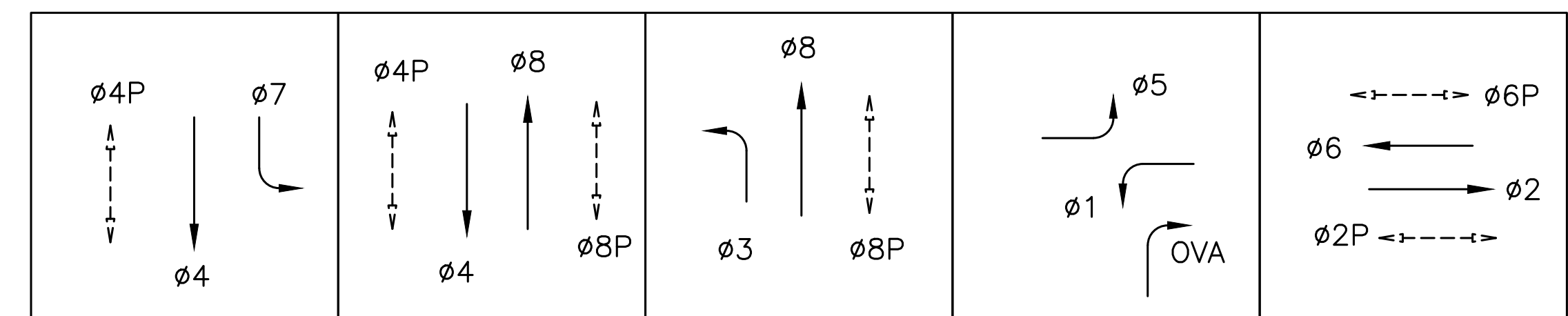
1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. COVER HOLES LEFT BY RELOCATED APS WITH A METAL PLATE.
3. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- dh DETECTOR HANDHOLE (EXISTING).
- RR REMOVE AND REUSE EQUIPMENT.
- 1 INSTALL NEW PBA POST.
- 2 INSTALL REUSED APS.
- 3 INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (18 TOTAL).



EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

100% PLANS

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DESIGNED: BA, EC

CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BLITHEDALE AVE / CAMINO ALTO ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-11.1 |
| | | SHEET NO. | 24 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | | | | |
|--------------------|---------------|----------------------|----|------|------|------|------|----|------|----|-----|--|
| AWG | CIRCUIT | NUMBER OF CONDUCTORS | | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 | △10 | |
| NO.14 | ∅1 | | | | | 3 | 6 | 3 | 3 | 3 | 3 | |
| | ∅2 | | | | 3 | 3 | 3 | | | | | |
| | ∅3 | | 3 | | 3 | 3 | 6 | 3 | 3 | | | |
| | ∅4 | 3 | 3 | | 3 | 3 | 3 | | | | | |
| | ∅5 | | | | | 3 | 6 | 3 | 3 | 3 | 3 | |
| | ∅6 | | | | | | 3 | 3 | 3 | 3 | 3 | |
| | ∅7 | | 3 | | 3 | 3 | 6 | 3 | 3 | | | |
| | ∅8 | | | 3 | 3 | 3 | 6 | 3 | 3 | | | |
| | ∅1,8 OL | | | 2 | 2 | 2 | 4 | 2 | | | | |
| | ∅2P | 2 | 2 | | 2 | 2 | 2 | | | | | |
| | ∅4P | 2 | 2 | | 2 | 2 | 4 | 2 | 2 | 2 | | |
| | ∅6P | | | | | | 2 | 2 | 2 | 2 | | |
| | ∅8P | | | | 2 | 2 | 4 | 2 | | | | |
| | ∅2P APS | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | ∅4P APS | 1 | 1 | | 1 | 1 | 2 | 1 | 1 | 1 | | |
| | ∅6P APS | | | | | | 1 | 1 | 1 | 1 | | |
| | ∅8P APS | | | | 1 | 1 | 2 | 1 | | | | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| APS COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| TOTAL | 13 | 19 | 10 | 30 | 36 | 65 | 33 | 28 | 19 | 12 | | |
| NO.12 DLC | ∅1 | | | | | 4 | | | | | | |
| | ∅2 | 5 | 5 | | 5 | 5 | 5 | | | | | |
| | ∅3 | | 1 | | 1 | 1 | 1 | | | | | |
| | ∅4 | | | | | 3 | 3 | 3 | | | | |
| | ∅5 | | | | | 1 | 1 | 1 | 1 | 1 | | |
| | ∅6 | | | | | 4 | | | | | | |
| | ∅7 | | | | | 1 | 1 | 1 | | | | |
| | ∅8 | | 3 | | 3 | 3 | 3 | | | | | |
| TOTAL | 5 | 9 | 0 | 9 | 9 | 22 | 5 | 5 | 1 | 1 | | |
| NO. 10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | |
| | SIC CABLE | | 1 | | 1 | 1 | 1 | | | | | |
| | TELEPHONE | | 1 | | 1 | 1 | 1 | | | | | |
| | CONDUIT SIZE | 2" | 2" | 1.5" | 2.5" | 2.5" | 2X3" | 3" | 2.5" | 2" | 2" | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|-----------------|-----------------|--------------------|-----------------------|-------------------------|------------------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | PBA POST (NEW) | | | | | | | 2P | ← | |
| (B) | 1-B | | | | | TV-1-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (C) | PBA POST (NEW) | | | | | | | 4P | → | |
| (D) | 17-3-70 SPECIAL | 20 | 8 8 | 105 105 | MAT MAS | | SP-1-T SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (E) | 1-B | | | | | TV-1-T | SP-2-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (1) |
| (F) | PBA POST (NEW) | | | | | | | 6P | → | |
| (G) | 18-1-70 | 15 | | | MAT | SV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (H) | 1-B | | | | | TV-1-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (I) | PBA POST (NEW) | | | | | | | 8P | → | |
| (J) | 16-1-70 | 15 | | | MAT | SV-1-T SV-1-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (K) | 1-B | | | | | TV-1-T | | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (L) | 1-B | | | | | TV-1-T | | 2P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (M) | 16-1-70 | 15 | | | MAT | SV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |

* ALL APS SHALL BE REUSED FROM EXISTING

100% PLANS



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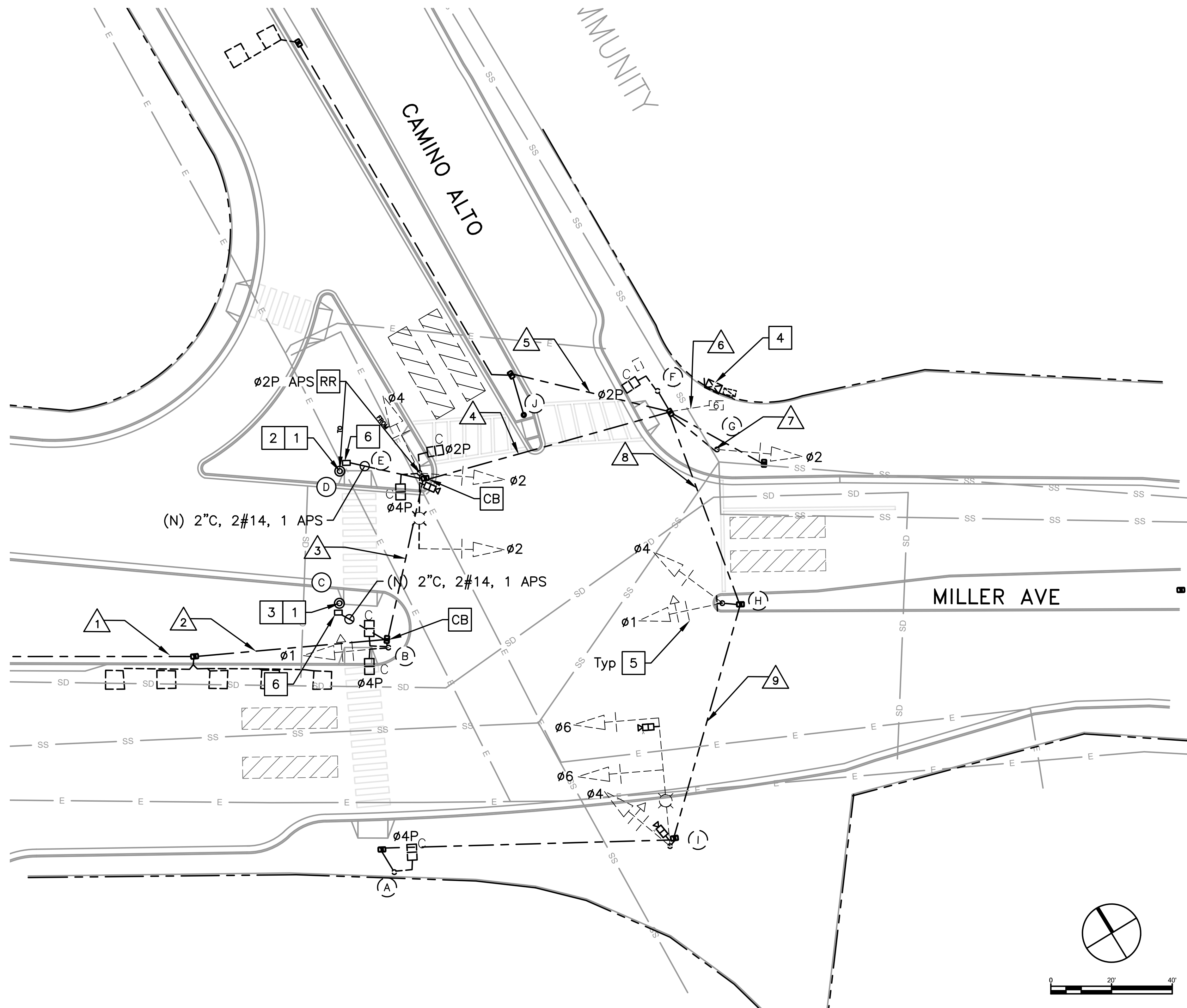


COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BLITHEDALE AVE / CAMINO ALTO ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-11.2
SHEET NO. 25 OF 104



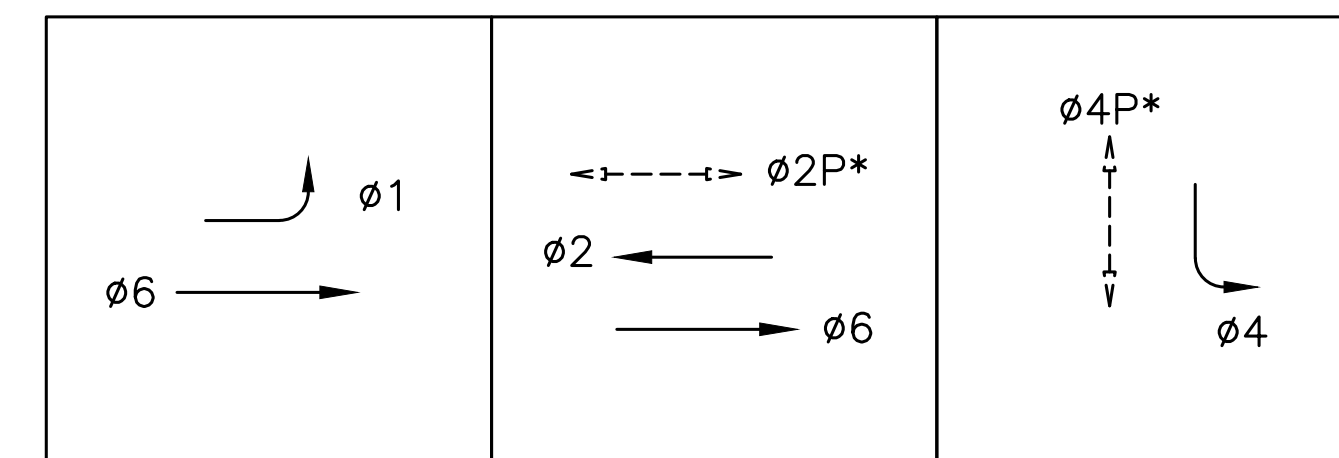
GENERAL NOTES (THIS SHEET ONLY)

1. COVER HOLES LEFT BY RELOCATED APS WITH A METAL PLATE.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RR** REMOVE AND REUSE EQUIPMENT.
- 1** INSTALL PBA POST.
- 2** INSTALL REUSED APS.
- 3** INSTALL APS.
- 4** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 5** INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEADS (10 TOTAL).
- 6** INSTALL NEW No. 5 PULL BOX.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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DRAWN: BA, DH
DESIGNED: BA, EC

CHECKED: AL
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COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
CAMINO ALTO / MILLER AVE ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------------|----------|
| | | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. 20036 | |
| | | DRAWING E-12.1 | |
| | | SHEET NO. 26 OF 104 | |
| NO. | DESCRIPTION | | |



| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|--------------------|---------------|----------------------|----|------|-----|------|-----|------|-----|------|-----|
| AWG | CIRCUIT | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 | △10 |
| NO.14 | Ø1 | | | 3 | 3 | | 6 | | 3 | | |
| | Ø2 | | | | 3 | | 6 | 3 | | | |
| | Ø4 | | | | 3 | | 6 | | 3 | 3 | |
| | Ø6 | | | | | | | | 3 | 3 | |
| | Ø2P | | | | 2 | | 2 | | | | |
| | Ø4P | | | 2 | 2 | | 4 | | 2 | 2 | 2 |
| | Ø2P APS | | | | 1 | 1 | 2 | | | | |
| | Ø4P APS | | | 1 | 1 | | 2 | | 1 | 1 | 1 |
| | APS COMMON | | | 1 | 1 | 1 | 3 | | 1 | 1 | 1 |
| | SPARES | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| TOTAL | | | 10 | 19 | 5 | 34 | 6 | 16 | 13 | 7 | |
| DLC | Ø1 DLC | | 1 | 1 | 1 | | 1 | | | | |
| | TOTAL | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| VDC | VDC | | | | 1 | | 3 | | 2 | 2 | |
| NO. 10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| | LUMINAIRE | | | | 2 | | 4 | | 2 | 2 | |
| | TOTAL | 1 | 1 | 1 | 3 | 1 | 7 | 1 | 3 | 2 | 1 |
| CONDUIT SIZE | | 1" | 1" | 1.5" | 2" | 1.5" | 2" | 1.5" | 2" | 1.5" | 2" |
| % FILL | | 0% | 8% | 15% | 17% | 10% | 36% | 8% | 15% | 16% | 4% |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|-----------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 1-B | | | | | | TP-1 | 4P | ← | |
| (B) | 1-B | | | | | TV-1-T | SP-2-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEAD (1) |
| (C) | PBA POST (NEW) | | | | | | | 4P (NEW) | → | |
| (D) | PBA POST (NEW) | | | | | | | 4P | ← | REINSTALL EXISTING APS FROM POLE (E) |
| (E) | MAP | 25 | 15 | | MAS | SV-2-T | SP-2-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEADS (3). COVER HOLES LEFT BY RELOCATED APS WITH A METAL PLATE |
| (F) | 1-B | | | | | | TP-1 | 2P | ← | |
| (G) | 1-B | | | | | TV-1 | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEAD (1) |
| (H) | 1-B | | | | | TV-1 SV-1 | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEADS (2) |
| (I) | 26A-3-70 | 40 | 15 | | MAT MAS | SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING SIGNAL HEADS (3) |
| (J) | PBA POST | | | | | | | 2P | ↔ | EXISTING APS TO REMAIN IN PLACE |

* ALL APS SHALL BE REUSED FROM EXISTING EXCEPT AS NOTED

100% PLANS



Parisi
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1936 University Ave, Ste 250
Berkeley CA 94704
(510) 343-6400

DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP

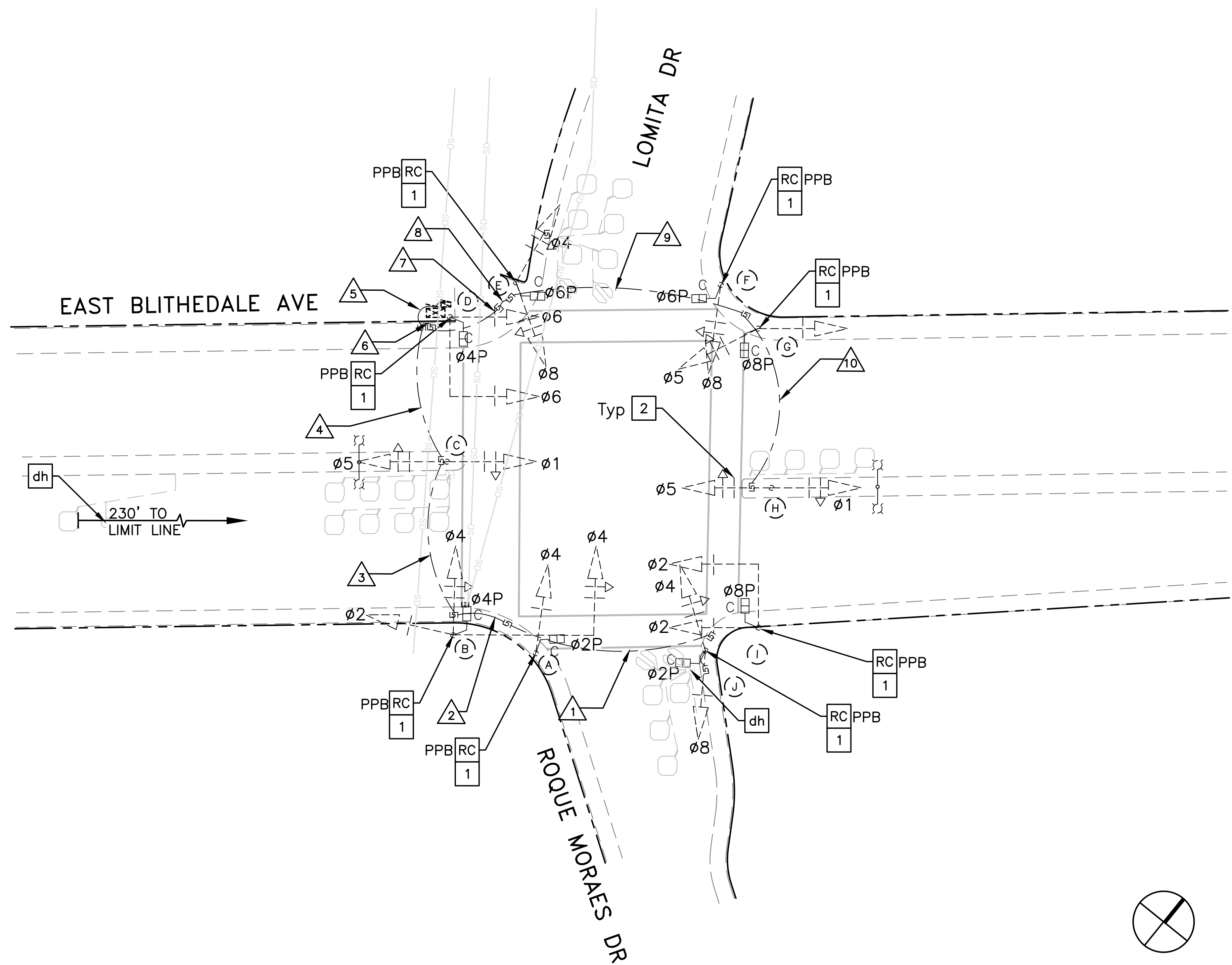


COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
CAMINO ALTO / MILLER AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-12.2
SHEET NO. 27 OF 104



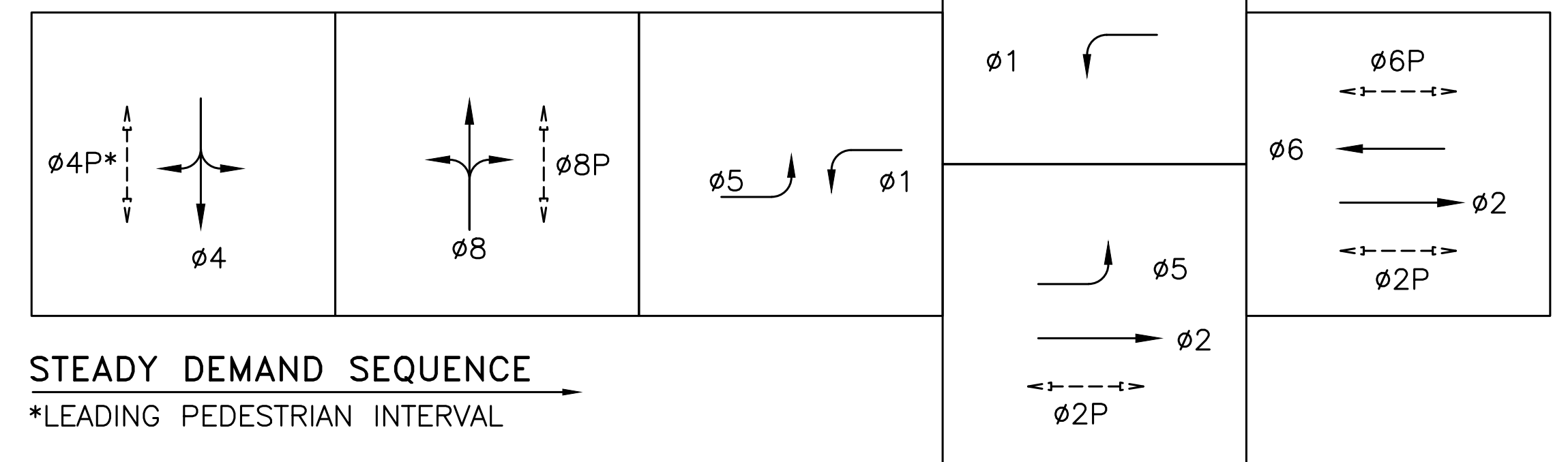
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. R/W SHOWN IS APPROXIMATE.
3. LOCATION IS SUBJECT TO CALTRANS ENCROACHMENT PERMIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- dh DETECTOR HANDHOLE (EXISTING).
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1 INSTALL APS.
- 2 INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (18 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE
*LEADING PEDESTRIAN INTERVAL

100% PLANS



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| | |
|------------------|--------------|
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| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
E BLITHEDALE AVE / LOMITA DR / ROQUE MORAES DR ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-13.1 |
| | | SHEET NO. | 28 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| #14 | Ø1 | | | | 3 | 6 | 3 | 3 | 3 | 3 | 3 |
| | Ø2 | 3 | 3 | 3 | 3 | 3 | | | | | |
| | Ø4 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | | |
| | Ø5 | | | | 3 | 6 | 3 | 3 | 3 | 3 | 3 |
| | Ø6 | | | | | 3 | 3 | | | | |
| | Ø8 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | |
| | Ø2P | 2 | 2 | 2 | 2 | 2 | | | | | |
| | Ø4P | | | 2 | 2 | 4 | 2 | | | | |
| | Ø6P | | | | | 2 | 2 | 2 | 2 | 2 | |
| | Ø8P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | |
| | Ø2 APS | 1 | 1 | 1 | 1 | 1 | | | | | |
| | Ø4 APS | | | | | 1 | 1 | | | | |
| | Ø6 APS | | | | | 1 | 1 | 1 | 1 | 1 | |
| | Ø8 APS | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | |
| | APS COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |
| SPARES | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | |
| TOTAL #14 | 19 | 19 | 21 | 27 | 55 | 28 | 22 | 22 | 19 | 10 | |
| #12 DLC | Ø1 | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| | Ø4 | | | | | 2 | 2 | 2 | 2 | | |
| | Ø5 | | | | 2 | 2 | | | | | |
| | Ø8 | 2 | 2 | 2 | 2 | 2 | | | | | |
| | TOTAL | 2 | 2 | 2 | 4 | 7 | 3 | 3 | 3 | 1 | 1 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | TOTAL #10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| EVP | EVA | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| | EVB | | | | | 1 | 1 | 1 | | | |
| | TOTAL EVP | | | | | 2 | 2 | 2 | 1 | 1 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|------------------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 1-B | | | | | TV-1-T | SP-1-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | 27-3-70 | 45 | | | MAS | SV-2-T | SP-1-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (C) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | 18-1-70 | 25 | | | MAS | SV-1-T | SP-1-T | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (E) | 1-B | | | | | TV-2-T | SP-1-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (F) | 1-B | | | | | TV-1-T | SP-1-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (1) |
| (G) | 1-B | | | | | TV-2-T | SP-1-T | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (H) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (I) | 18-1-70 | 25 | | | MAS | SV-1-T | SP-1-T | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (J) | 1-B | | | | | TV-2-T | SP-1-T | 2P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |

* ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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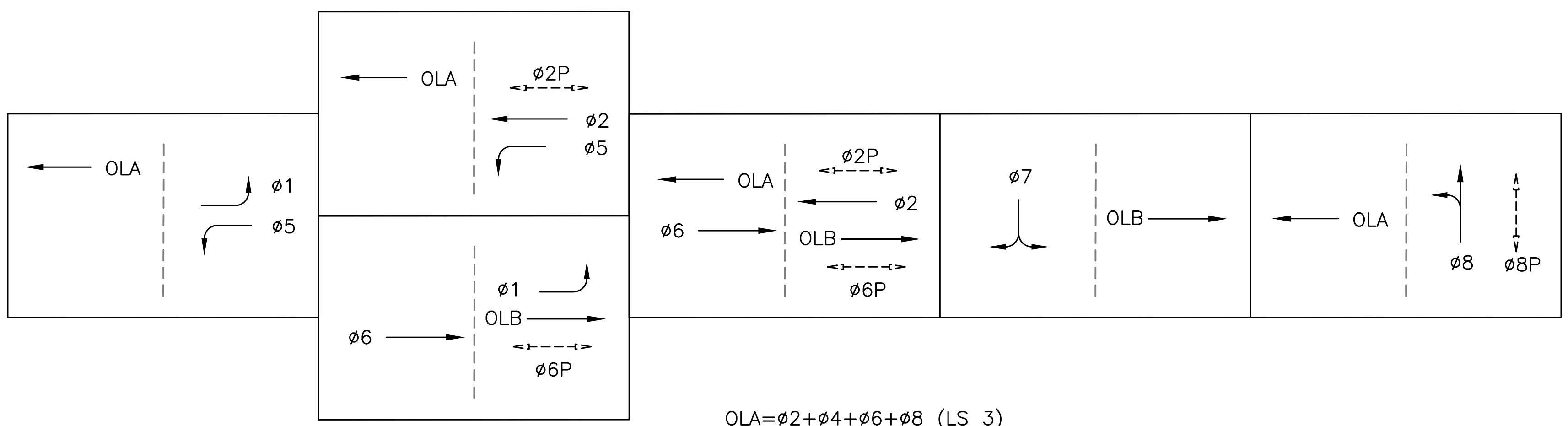
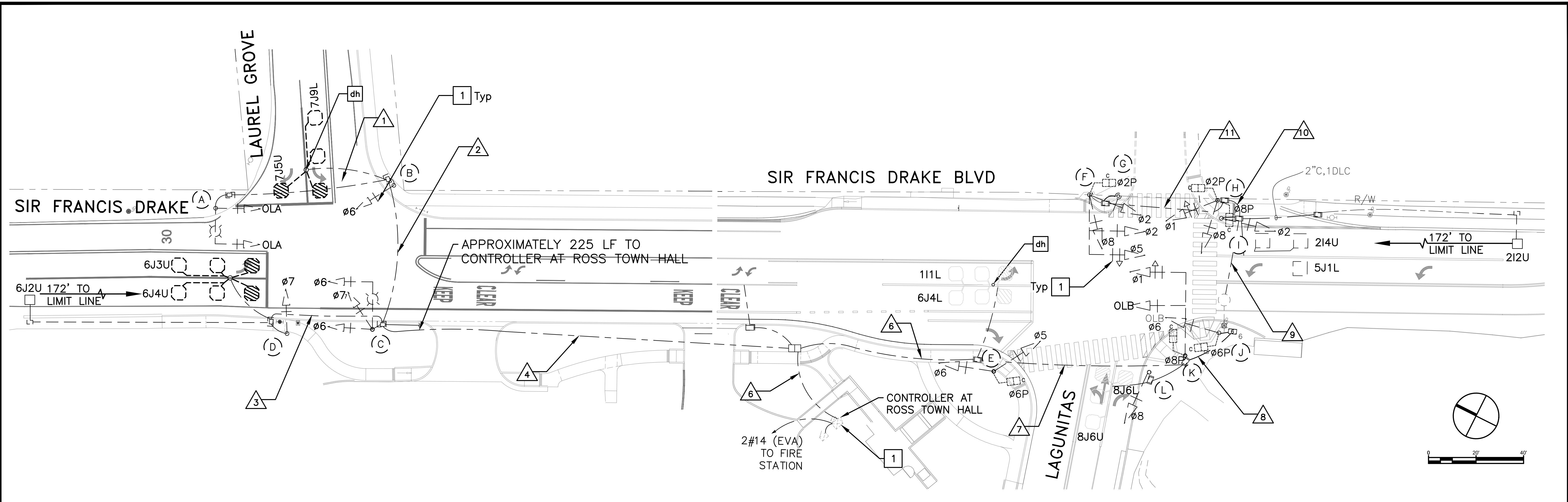
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CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF MILL VALLEY
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
E BLITHEDALE AVE / LOMITA DR / ROQUE MORAES DR ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-13.2 |
| | | SHEET NO. | 29 OF 104 |



OLA=Ø2+Ø4+Ø6+Ø8 (LS 3)
 OLB=Ø4+Ø6+Ø7 (LS 4)
 OLD=Ø4
 EV-A=Ø4 (Exclusive phase)

GENERAL NOTES (THIS SHEET ONLY)

- 1. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- 1 ADD REFLECTIVE TAPE TO EXISTING BACKPLATES (19 TOTAL)

100% PLANS

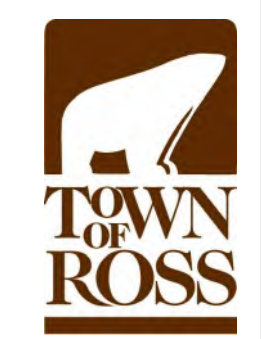


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 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - TOWN OF ROSS
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 SIR FRANCIS DRAKE BLVD / LAUREL GROVE RD / LAGUNITAS AVE ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-14/15.1 |
| | | SHEET NO. | 30 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | | | | |
|--------------------|----------------|----------------------|----|----|----|-----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| #14 | Ø1 | | | | | 6 | 6 | 6 | 3 | 3 | 3 | |
| | Ø2 | | | | | 6 | 6 | 6 | 6 | 3 | 3 | 3 |
| | Ø5 | | | | | 6 | 6 | 3 | 3 | 3 | 3 | 3 |
| | Ø6 | | 3 | | 3 | 3 | | | | | | |
| | Ø7 | | | 3 | 3 | 3 | | | | | | |
| | Ø8 | | | | | 6 | 6 | 6 | 3 | 3 | 3 | 3 |
| | OLA | 3 | 3 | | 3 | 3 | | | | | | |
| | OLB | | | | | 9 | 9 | 6 | 3 | | | |
| | Ø2P | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Ø6P | | | | | 4 | 4 | 2 | 2 | | | |
| | Ø8P | | | | | 4 | 4 | 4 | 2 | 2 | 2 | |
| | SPARES | 3 | 3 | | 3 | 12 | 9 | 9 | 6 | 6 | 6 | 3 |
| TOTAL #14 | 6 | 9 | 3 | 12 | 64 | 53 | 44 | 30 | 25 | 22 | 14 | |
| #10 | SIGNAL NEUTRAL | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| DLC | Ø1 | | | | | 1 | 1 | | | | | |
| | Ø2 | | | | | 3 | 2 | 2 | 2 | 2 | | |
| | Ø5 | | | | | 1 | 1 | 1 | 1 | 1 | | |
| | Ø6 | | | 3 | 3 | 5 | 1 | | | | | |
| | Ø7 | | 2 | | 2 | 2 | | | | | | |
| | Ø8 | | | | | 2 | 2 | 2 | | | | |
| | Ø2P PPB | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| | Ø6P PPB | | | | | 2 | 2 | 1 | | | | |
| | Ø8P PPB | | | | | 2 | 2 | 2 | 2 | 1 | | |
| TOTAL DLC | | 2 | 3 | 5 | 20 | 13 | 10 | 7 | 6 | 2 | 1 | |
| CONDUIT SIZE | | 3 | 3 | 2 | 3 | 2-3 | 3 | 3 | 3 | 3 | 3 | 3 |
| PERCENT FILL | | 3 | 5 | 9 | 9 | 19 | 27 | 22 | 15 | 13 | 9 | 6 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS) | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 17-2-70 | 15 | 8 | 15 | MAS | SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (B) | 1-B | | | | | TV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (1) |
| (C) | 17-2-70 | 20 | 12 | 15 | MAS | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (D) | 1-B | | | | | TV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (1) |
| (E) | 1-B | | | | | TV-2-T | SP-1-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (F) | 18-2-70 | 25 | | | MAS MAS | SV-2-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (G) | PBA POST | | | | | | | 2P | → | |
| (H) | 1-B | | | | | TV-2-T | SP-2-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (I) | 1-B | | | | | TV-1-T | | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (1) |
| (J) | 1-B | | | | | TV-1-T | | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (K) | 24-3-70 | 35 | | | MAS MAS | | | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (L) | 1-B | | | | | TV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |

100% PLANS



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DESIGNED: BA, EC

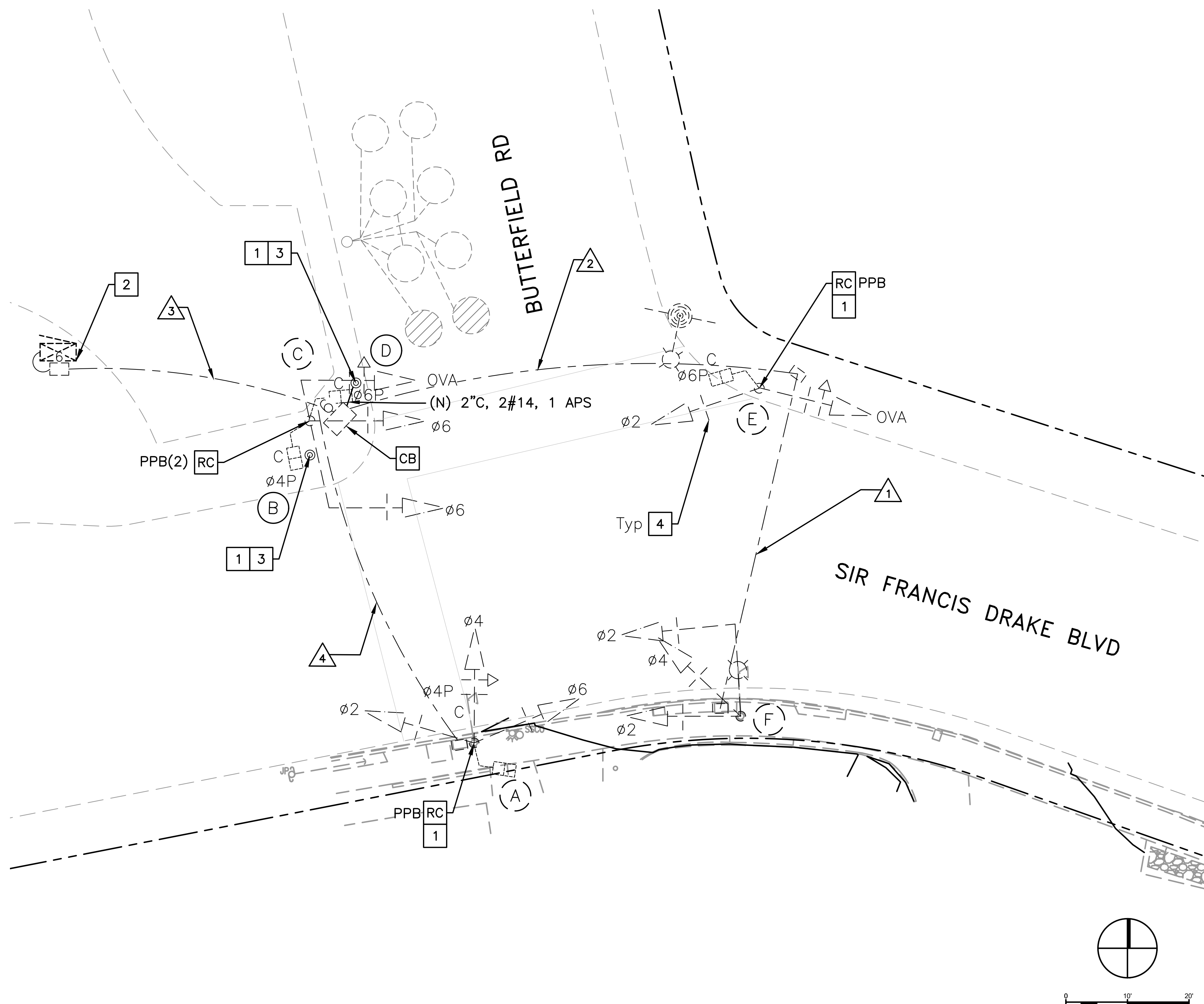
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - TOWN OF ROSS
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / LAUREL GROVE RD / LAGUNITAS AVE ELECTRICAL SCHED.



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-14/15.2 |
| | | SHEET NO. | 31 OF 104 |



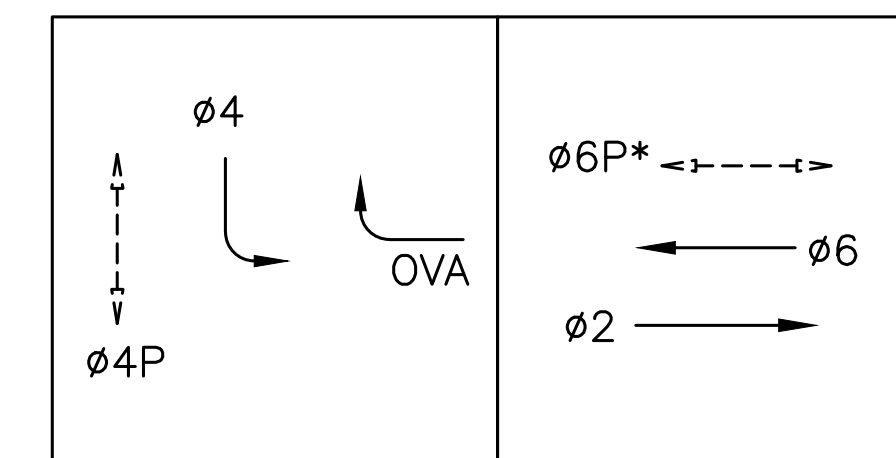
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT BOX INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL APS.
- 2** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 3** INSTALL NEW PBA POST.
- 4** INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (11 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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(510) 343-6400

DRAWN: BA, DH CHECKED: AL
DESIGNED: BA, EC APPROVED: DP



COUNTY OF MARIN - TOWN OF SAN ANSELMO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / BUTTERFIELD RD ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------------|----------|
| | | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. 20036 | |
| | | DRAWING E-16.1 | |
| | | SHEET NO. 32 OF 104 | |
| NO. | DESCRIPTION | | |



| CONDUCTOR SCHEDULE | | | | | |
|--------------------|---------------|---------------------------------|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS RUN NUMBER | | | |
| | | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 |
| #14 | ∅2 | 3 | 3 | 6 | 3 |
| | ∅4 | 3 | 3 | 6 | 3 |
| | ∅6 | | | 3 | 3 |
| | ∅OVA | | 3 | 3 | |
| | ∅4P | | | 2 | 2 |
| | ∅6P | | 2 | 2 | |
| | ∅4 APS | | | 1 | 1 |
| | ∅6 APS | | 1 | 2 | |
| | APS COMMON | 1 | 1 | 2 | 1 |
| | SPARES | 3 | 3 | 3 | 3 |
| TOTAL #14 | 10 | 16 | 30 | 16 | |
| #10 | SIGNAL COMMON | 1 | 1 | 2 | 1 |
| | LUMINAIRES | 2 | 2 | 2 | |
| | TOTAL #10 | 3 | 3 | 4 | 1 |
| DLC | ∅4 | | | 2 | |
| | TOTAL | | | 2 | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | 1-B | | | | | TV-3-T | SP-1-T | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (B) | PBA POST (NEW) | | | | | | | 4P | ← | |
| (C) | 16-2-70 | 15 | | | MAS | SV-2-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (D) | PBA POST (NEW) | | | | | | | 6P | → | |
| (E) | 1-B | | | | | TV-2-T | SP-1-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (F) | 17-2-70 | 15 | 12 | 100 | MAS | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |

* ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP

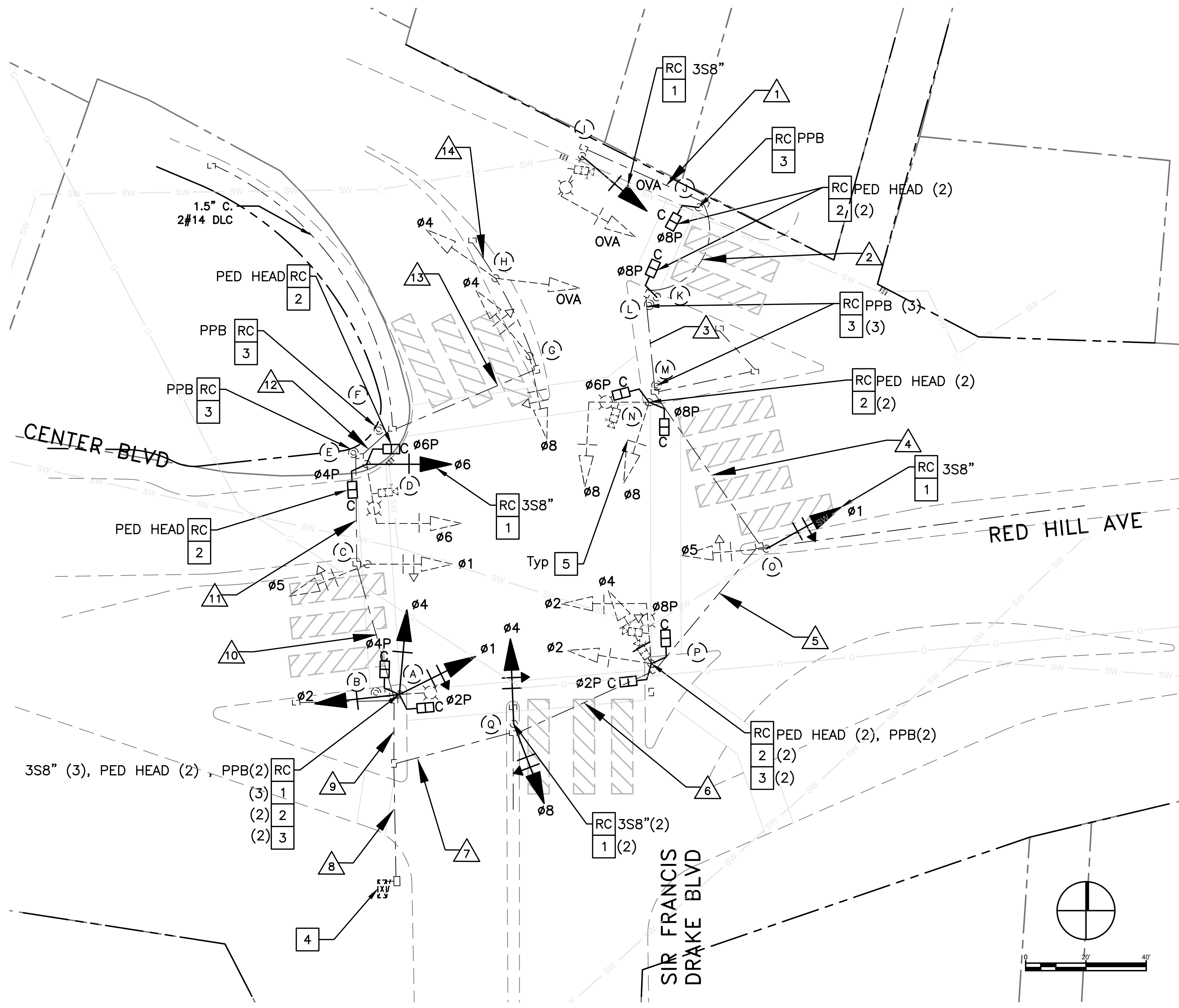


COUNTY OF MARIN - TOWN OF SAN ANSELMO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / BUTTERFIELD RD ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-16.2
SHEET NO. 33 OF 104



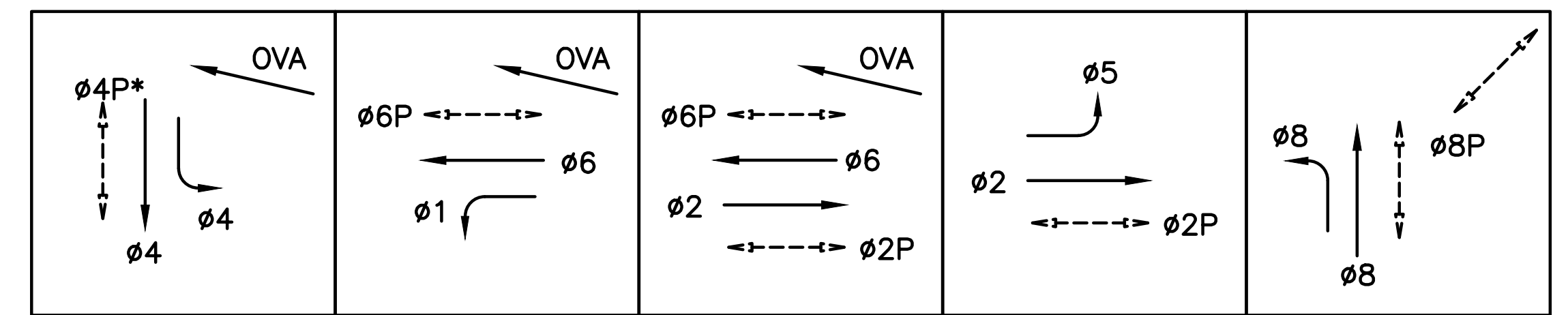
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL PEDESTRIAN COUNTDOWN HEAD.
- 3** INSTALL APS.
- 4** INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 ICS TO 233 ICS. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE MODIFIED CONTROLLER.
- 5** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (22) TOTAL.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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| | |
|------------------|--------------|
| DRAWN: BA, DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - TOWN OF SAN ANSELMO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / CENTER BLVD / RED HILL ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-17.1 |
| | | SHEET NO. | 34 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | | | | | | | |
|--------------------|---------------|----------------------|------|------|----|------|------|------|------|----|----|------|------|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| #14 | Ø1 | | | | | 3 | 3 | 3 | 6 | 3 | 3 | | | | |
| | Ø2 | | | | | | 3 | 3 | 6 | 3 | | | | | |
| | Ø4 | | | | | | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Ø5 | | | | | 3 | 3 | 3 | 6 | 3 | 3 | | | | |
| | Ø6 | | | | | | | | 3 | 3 | 3 | 3 | | | |
| | Ø8 | | | | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | |
| | ØOVA | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Ø2P | | | | | | 2 | 2 | 4 | 2 | | | | | |
| | Ø4P | | | | | | | | 2 | 2 | 2 | 2 | | | |
| | Ø6P | | | | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | | | |
| | Ø8P | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | |
| | Ø2P APS | | | | | | 1 | 1 | 2 | 1 | | | | | |
| | Ø4P APS | | | | | | | | 1 | 1 | 1 | 1 | | | |
| | Ø6P APS | | | | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | |
| | Ø8P APS | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | |
| APS COMMON | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | | | |
| SPARES | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| TOTAL #14 | | 6 | 10 | 10 | 16 | 22 | 31 | 31 | 62 | 34 | 38 | 22 | 14 | 12 | 9 |
| #10 | LUMINAIRES | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | | | |
| | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | TOTAL #10 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 5 | 3 | 3 | 3 | 1 | 1 | 1 |
| DLC | Ø4 | | | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| | | | | | | | | | | | | | | | |
| VIDEO | CABLE | 1 | 1 | 1 | 2 | 2 | 4 | 4 | 5 | 1 | 1 | 1 | | | |
| | | | | | | | | | | | | | | | |
| | CONDUIT SIZE | 1.50 | 1.50 | 1.50 | 2 | 2.50 | 2.50 | 2.50 | 1.50 | 2 | 2 | 2.50 | 1.50 | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|-----------|-----------------|--------------------|-----------------------|-------------------------|------------------------------|--------------------|--------------------------------------|--------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 15 | | 12 | 105 | | SV-3-T (NEW) | SP-2-T | 4P 2P | ← → | REPLACE (E) 3-3S8" WITH (N) 2-3S12" (Ø2&4) AND 1-3S12"L (Ø1). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (3). |
| (B) | PBA POST | | | | | | | 2P | ← | EXISTING PPB TO REMAIN FOR BICYCLISTS |
| (C) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | 17-2-70 | 20 | 12 | 105 | MAS | SV-2-T (NEW) | SP-2-T | | → | REPLACE (E) 3S8" WITH (N) 3S12" (Ø6). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2). |
| (E) | PBA POST | | | | | | | 4P | ← | |
| (F) | PBA POST | | | | | | | 6P | → | |
| (G) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (H) | 1-A (12') | | | | | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (I) | 17-2-70 | 15 | 12 | 105 | MAS | SV-1-T (NEW) | | | | REPLACE (E) 3S8" WITH (N) 3S12" (ØOVA). INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (2). |
| (J) | 1-B | | | | | | TP-1-T | | | |
| (K) | 1-B | | | | | | TP-1-T | | | |
| (L) | PBA POST | | | | | | | 8P | ← | |
| (M) | 17-2-70 | 20 | 12 | 105 | MAS | SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (N) | PBA POST | | | | | | | 6P 8P | ← → | |
| (O) | 1-B | | | | | TV-1-T SV-1-T (NEW) | | | | REPLACE (E) 3S8"L WITH (N) 3S12"L (Ø1). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (2). |
| (P) | 17-2-70 | 20 | 12 | 105 | MAS | SV-2-T | SP-2-T | 2P 8P | ← → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (Q) | 1-B | | | | | TV-1-T (NEW) SV-1-T (NEW) | | | | REPLACE (E) 2-3S8"L WITH (N) 2-3S12"L (Ø4&8). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2). |

* ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 ** ALL APS SHALL BE NEW

100% PLANS



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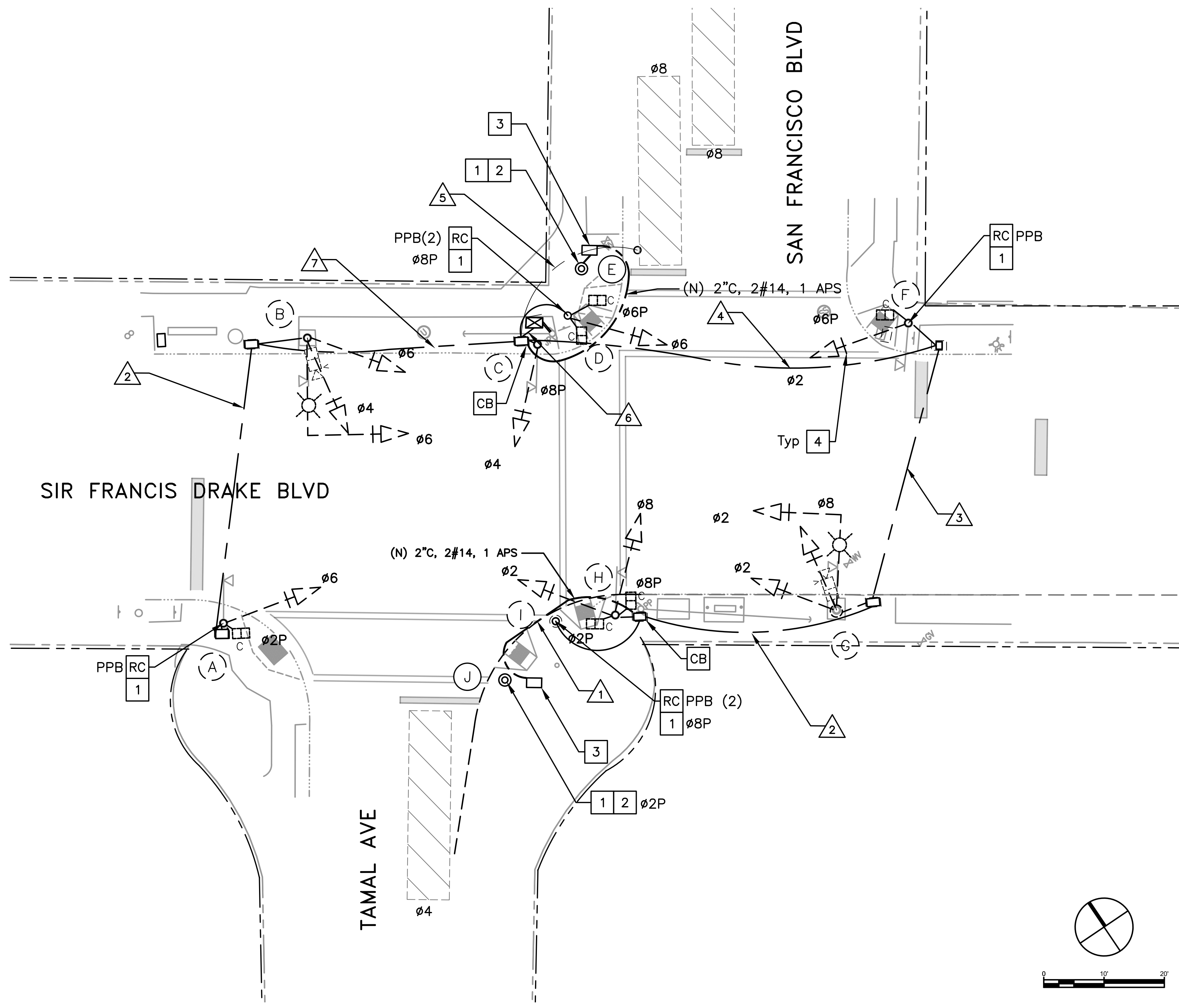
DESIGNED: BA, DH
 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - TOWN OF SAN ANSELMO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 SIR FRANCIS DRAKE BLVD / CENTER BLVD / RED HILL ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-17.2 |
| | | SHEET NO. | 35 OF 104 |



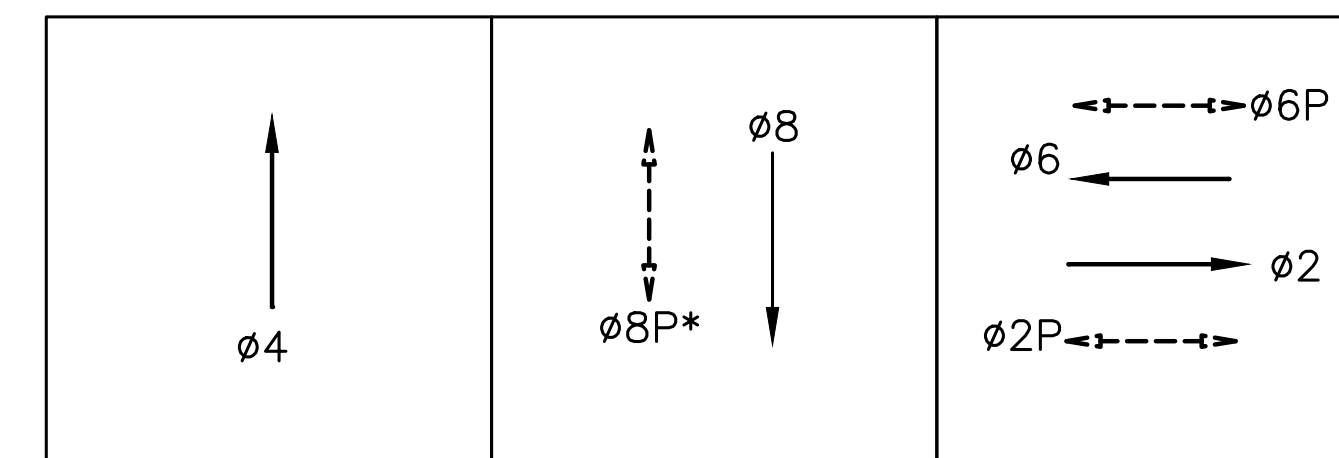
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL APS.
- 2** INSTALL PBA POST.
- 3** INSTALL NEW No. 5 PULL BOX.
- 4** INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (12 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE
*LEADING PEDESTRIAN INTERVAL

100% PLANS

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(510) 343-6400

DESIGNED: BA, DH
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - TOWN OF SAN ANSELMO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / SAN FRANCISCO BLVD / TAMAL AVE ELECT. PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-18.1 |
| | | SHEET NO. | 36 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | |
| | | RUN NUMBER | | | | | | | |
| | | NEW | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Ø2 | | 3 | 3 | 3 | | 3 | | |
| | Ø4 | | | | | | 3 | 3 | |
| | Ø6 | | | | | | 3 | 3 | 3 |
| | Ø8 | | 3 | 3 | 3 | | 3 | | |
| | Ø2P | | 2 | 2 | 2 | | 2 | 4 | 2 |
| | Ø6P | | | | 2 | | 2 | | |
| | Ø8P | | 2 | 2 | 2 | | 2 | | |
| | Ø2 APS | 1 | 1 | 1 | 1 | | 2 | 1 | 1 |
| | Ø6 APS | | | | 1 | 1 | 1 | | |
| | Ø8 APS | | 1 | 1 | 1 | | 1 | | |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | | 2 | 1 |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | TOTAL #14 | 5 | 16 | 16 | 19 | 5 | 26 | 14 | 10 |
| #10 | SIGNAL COMMON | | | 1 | 1 | 1 | 2 | 1 | 1 |
| | LUMINAIRES | | | 2 | 2 | 2 | 4 | 2 | 2 |
| | TOTAL #10 | 0 | 0 | 3 | 3 | 3 | 6 | 3 | 3 |
| VIDEO DETECTION | CABLE | | | 1 | 1 | 1 | 2 | 1 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 1-B | | | | | TV-1-T | SP-1-T | 2P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | 17-2-70 | 15 | 12 | 105 | MAS | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (C) | 1-B | | | | | TV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (D) | 1-B | | | | | TV-1-T | SP-2-T | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (E) | PBA POST (NEW) | | | | | | | 6P | → | |
| (F) | 1-B | | | | | TV-1-T | SP-1-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (G) | 17-1-70 | 15 | 12 | 105 | MAS | SV-2-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (H) | 1-B | | | | | TV-2-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (I) | PBA POST | | | | | | | 8P | → | |
| (J) | PBA POST (NEW) | | | | | | | 2P | → | |

* ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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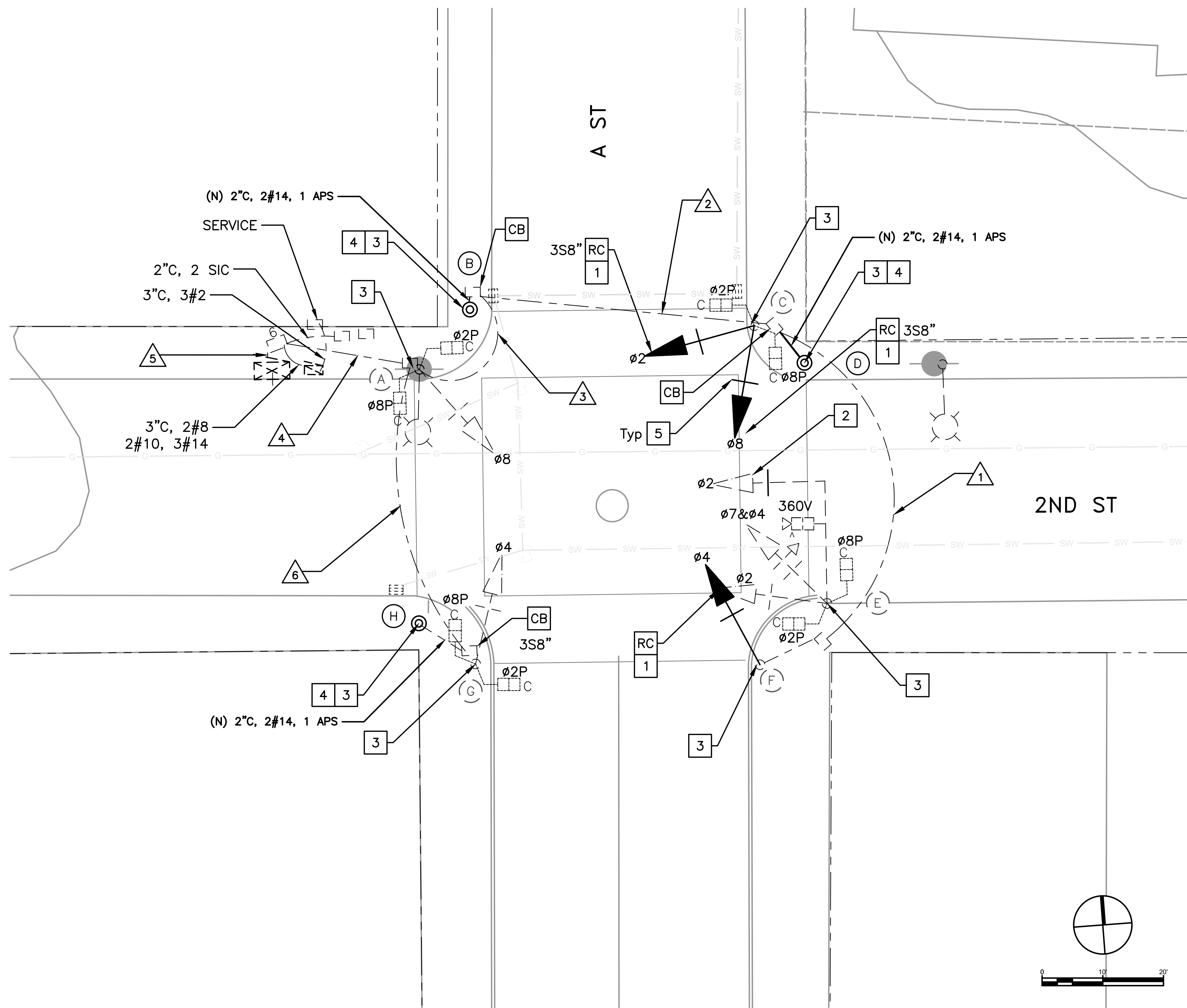
DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - TOWN OF SAN ANSELMO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / SAN FRANCISCO BLVD / TAMAL AVE ELECT. SCHED.



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| 1 | | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-18.2 |
| | | SHEET NO. | 37 OF 104 |
| NO. | DESCRIPTION | | |



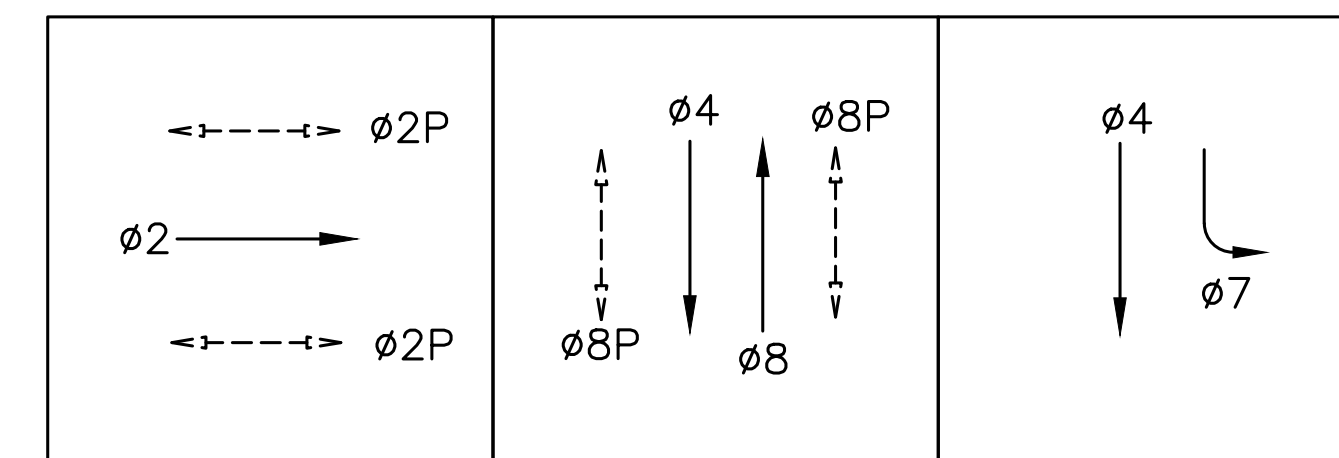
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT IN TO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL NEW BACKPLATE ON EXISTING TRAFFIC SIGNAL.
- 3** INSTALL APS.
- 4** INSTALL NEW PBA POST.
- 5** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (8 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

100% PLANS



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CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / A ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-19.1 |
| | | SHEET NO. | 38 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | |
|-----------------------|----------------|----------------------|------|------|------|------|------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX 1 | EX 2 | EX 3 | EX 4 | EX 5 | EX 6 |
| | ø2 | 3 | 3 | 3 | 3 | 3 | |
| | ø4 | 3 | 3 | 3 | 6 | 6 | 3 |
| | ø7 | 1 | 1 | 1 | 1 | 1 | |
| #14 | ø8 | | 3 | 3 | 3 | 3 | |
| | ø2P | 2 | 2 | 2 | 4 | 4 | 2 |
| | ø8P | 2 | 2 | 2 | 6 | 6 | 2 |
| | ø2 APS | 1 | 1 | 1 | 2 | 2 | 1 |
| | ø8P APS | 1 | 1 | 1 | 2 | 2 | 1 |
| | APS COMMON | 1 | 1 | 1 | 2 | 2 | 1 |
| | SPARES | 0 | 0 | 0 | 0 | 0 | 0 |
| | PEU | | | | | | |
| | TOTAL #14 | 14 | 17 | 17 | 32 | 29 | 10 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 |
| | LUMINAIRES | | | | 2 | | |
| | TOTAL #10 | 1 | 1 | 1 | 3 | 1 | 2 |
| #8 | SIGNAL SERVICE | | | | | 2 | |
| SIC | | | | | 2 | | |
| VIDEO | CABLE | 1 | 1 | 1 | 1 | 1 | |
| CONDUIT SIZE (INCHES) | | 3" | 3" | 3" | 3" | 3" | 3" |
| % FILL | | 4% | 5% | 10% | 15% | 15% | 3% |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (ø) | ARROW | |
| (A) | 15 | - | 12 | 310 | - | SV-1-T | SP-2-T | 8P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | PBA POST (NEW) | - | - | - | - | | SP-2-T | 2P | → | |
| (C) | 1-B | - | - | - | - | TV-2-T (NEW) | SP-2-T | 2P | ← | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (ø2&8). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2). |
| (D) | PBA POST (NEW) | | | | | | | 8P | → | |
| (E) | 16-2-80 | 20 | - | - | MAS | SV-2-T | SP-2-T | 8P | ← | INSTALL BACKPLATE ON EXIST MAS MOUNTED SIGNAL HEAD. INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (3). |
| (F) | 1-B | | | | | TV-1-T (NEW) | | 2P | → | INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATE (1) |
| (G) | 1-B | - | - | - | - | TV-1-T | SP-2-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (H) | PBA POST (NEW) | | | | | | | 8P | → | |

* ALL APS SHALL BE NEW

100% PLANS



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DRAWN: BA, DH
DESIGNED: BA, EC

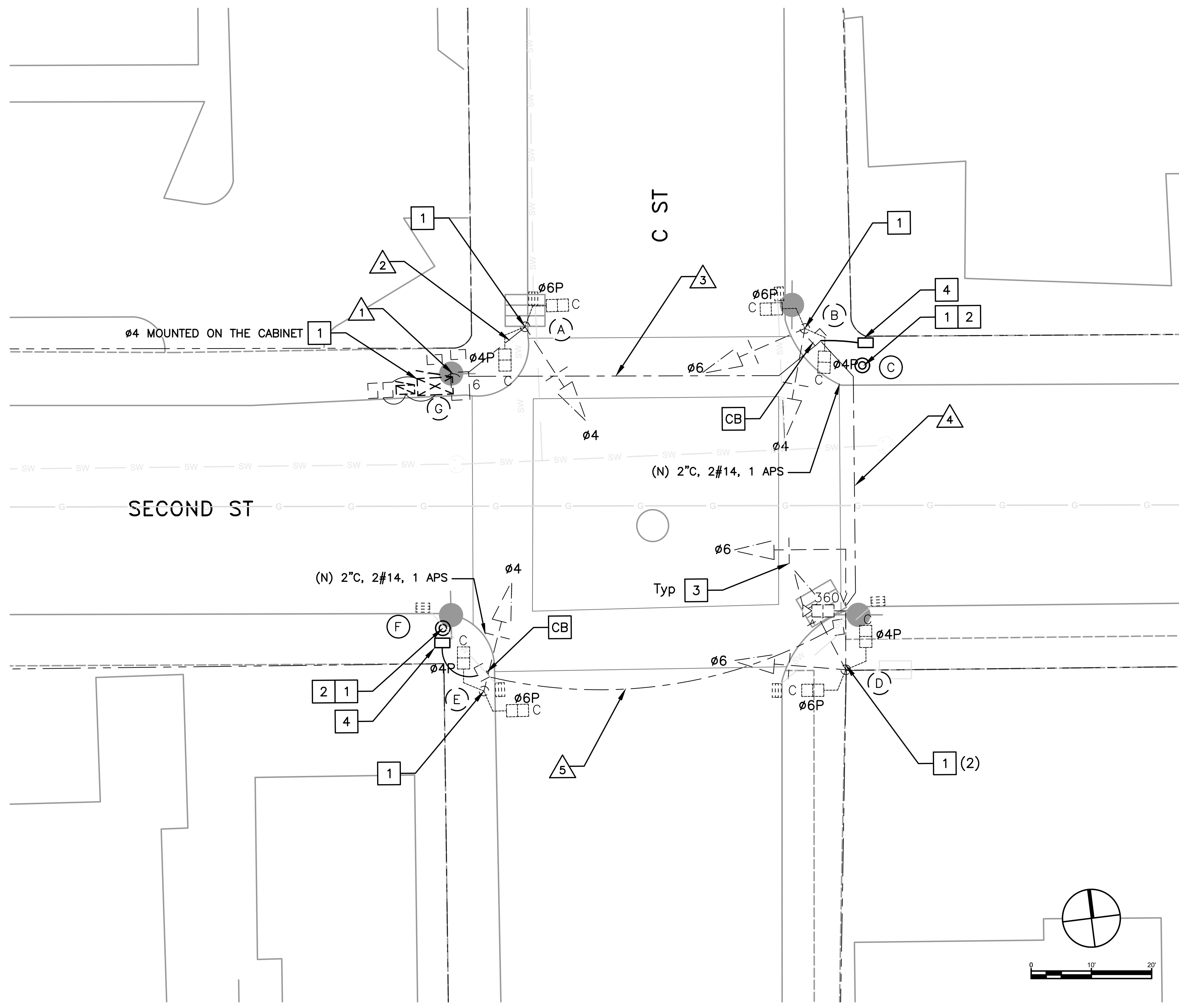
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / A ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-19.2 |
| | | SHEET NO. | 39 OF 104 |

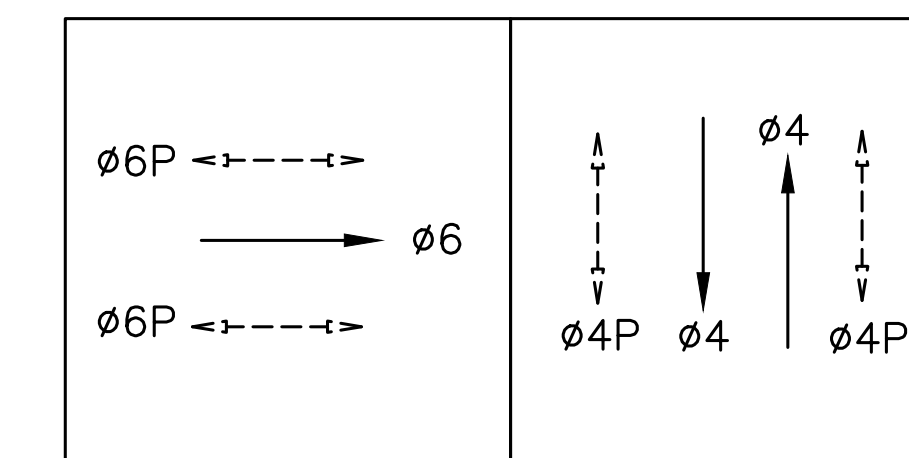


1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- [CB] INSTALL CONDUIT INTO EXISTING PULL BOX.
- [RC] EQUIPMENT OR MATERIAL TO BE REMOVED BECOME THE PROPERTY OF THE CONTRACTOR.
- [1] INSTALL ACCESSIBLE PEDESTRIAN SIGNAL.
- [2] INSTALL PBA POST.
- [3] INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (7 TOTAL).
- [4] INSTALL NEW No 5 PULL BOX.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

100% PLANS



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| | |
|------------------|--------------|
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| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / C ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-20.1 |
| | | SHEET NO. | 40 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | |
|-----------------------|---------------|----------------------|------|------|------|------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | |
| | | RUN NUMBER | | | | |
| | | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 |
| #14 | ∅4 | 3 | 3 | 3 | 3 | 3 |
| | ∅6 | 3 | | 3 | 3 | 3 |
| | ∅4P | 2 | 2 | 2 | 2 | 2 |
| | ∅6P | 2 | 2 | 2 | 2 | 2 |
| | ∅4 APS | 1 | | 1 | 1 | 1 |
| | ∅6 APS | 1 | 1 | 1 | 1 | 1 |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 |
| | SPARES | 0 | 1 | 0 | 0 | 0 |
| | TOTAL #14 | 13 | 10 | 13 | 13 | 13 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 |
| VIDEO | CABLE | 1 | 1 | 1 | 1 | |
| CONDUIT SIZE (INCHES) | | 1.5" | 1.5" | 1.5" | 1.5" | 1.5" |
| %FILL | | 13% | 10% | 4% | 4% | 4% |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|--------------------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|--------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | 1-B | | | | | TV-1-T | SP-2-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | 1-B | | | | | TV-2-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (C) | PBA POST (NEW) | | | | | | | 4P | → | |
| (D) | 16-2-70 | 20 | | | MAT | SV-2-T | SP-2-T | 4P 6P | → ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (E) | 1-B | | | | | TV-1-T | SP-2-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (F) | PBA POST (NEW) | | | | | | | 6P | ← | |
| (G) | CONTROLLER CABINET | | | | | | | 4P | ← | INSTALL APS ON THE SIDE OF THE CONTROLLER CABINET |

* ALL APS SHALL BE NEW

100% PLANS



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Berkeley CA 94704
(510) 343-6400

DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



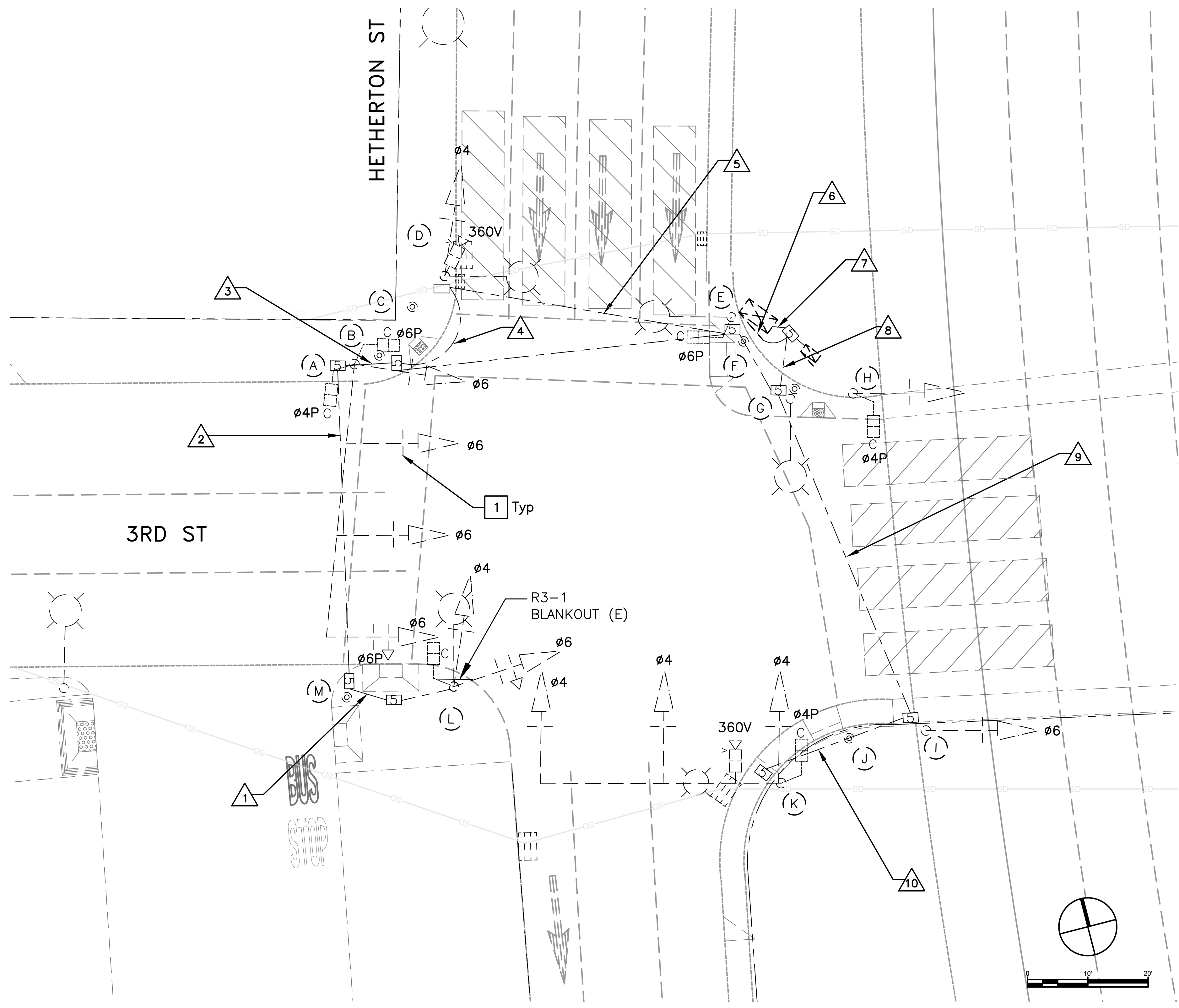
COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / C ST ELECTRICAL SCHEDULE



SAN RAFAEL
THE CITY WITH A MISSION

| REVISIONS | |
|-----------|-------------|
| NO. | DESCRIPTION |

| | |
|------------------|-------|
| DATE | SCALE |
| 10/01/2021 | N/A |
| PTC PROJECT NO. | |
| 20036 | |
| DRAWING | |
| E-20.2 | |
| SHEET NO. | |
| 41 OF 104 | |



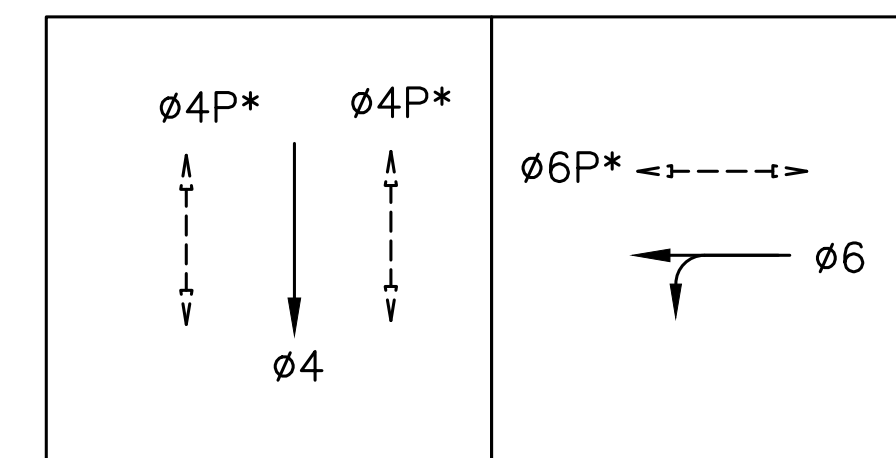
GENERAL NOTES (THIS SHEET ONLY)

1. R/W SHOWN IS APPROXIMATE.
2. LOCATION IS SUBJECT TO CALTRANS AND SMART ENCROACHMENT PERMIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

1. INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (12 TOTAL)

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE
*LEADING PEDESTRIAN INTERVAL

100% PLANS



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Berkeley CA 94704
(510) 343-6400

| | |
|------------------|--------------|
| DRAWN: BA, DH | CHECKED: AL |
| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
3RD ST / HETHERTON ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-21.1 |
| | | SHEET NO. | 42 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|--------------------|----------------|----------------------|----|-----|-----|-----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Ø4 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| | Ø6 | 4 | 4 | 4 | 4 | 4 | 4 | 7 | 3 | 3 | |
| | R3-1 BLANKOUT | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | Ø4P | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| | Ø6P | | | | 2 | 2 | 2 | 2 | | | |
| | Ø4 APS | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | |
| | Ø6 APS | | | | | 1 | 1 | 1 | | | |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | TOTAL #14 | 15 | 16 | 16 | 18 | 19 | 19 | 29 | 13 | 13 | 9 |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | LUMINAIRES | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| | TOTAL #10 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| #8 | SIGNAL SERVICE | | | | | | | 2 | | | |
| VIDEO DETECTION | CABLE | | | | | 1 | 2 | 1 | 1 | 1 | 1 |
| CONDUIT SIZE | | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" | 3" |
| % FILL | | 4% | 5% | 10% | 15% | 15% | 3% | 3% | 3% | 3% | 3% |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS) | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 28-5-100 | 55 | | | MAT MAT MAT | SV-1-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4) |
| (B) | PBA POST | | | | | | | 4P | ← | |
| (C) | PBA POST | | | | | | | 6P | → | |
| (D) | 15 | | 12 | 110 | | SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (E) | 15 | | 12 | 110 | | | SP-1-T | | | |
| (F) | PBA POST | | | | | | | 6P | ← | |
| (G) | PBA POST | | | | | | | 4P | → | |
| (H) | 15 | | 12 | 110 | | SV-1-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (I) | 1-B | | | | | TV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (J) | PBA POST | | | | | | | 4P | ← | |
| (K) | 26-4-100 | 40 | 12 | 110 | MAT MAT | SV-1-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (L) | SLP | | 12 | 110 | | SV-2-T | SP-1-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (M) | PBA POST | | | | | | | 4P | → | |

100% PLANS



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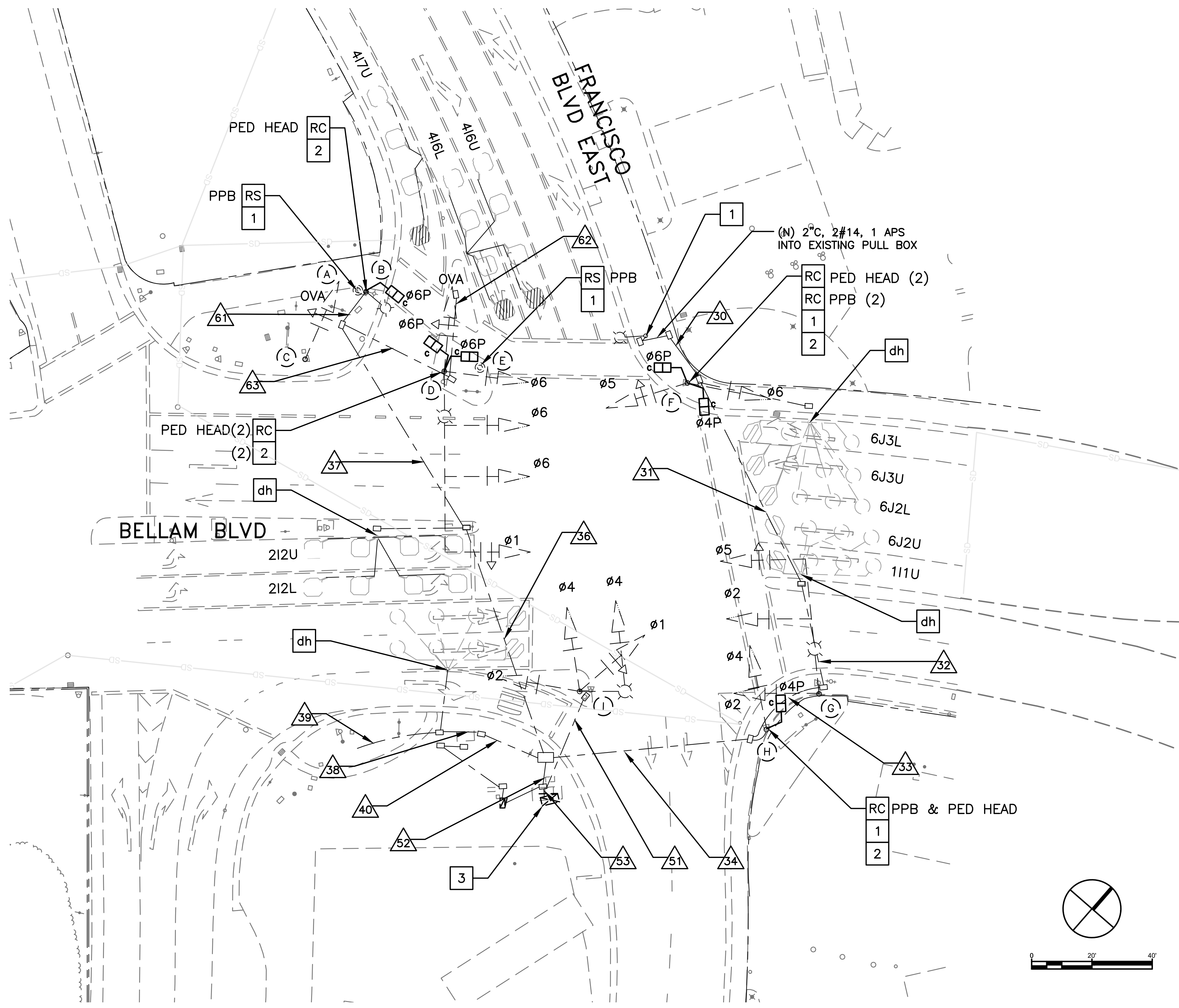
DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
3RD ST / HETHERTON ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------------|-------------|------------|-------|
| 1 | | 10/01/2021 | N/A |
| PTC PROJECT NO. | | 20036 | |
| DRAWING | | E-21.2 | |
| SHEET NO. | | 43 OF 104 | |
| NO. | DESCRIPTION | | |



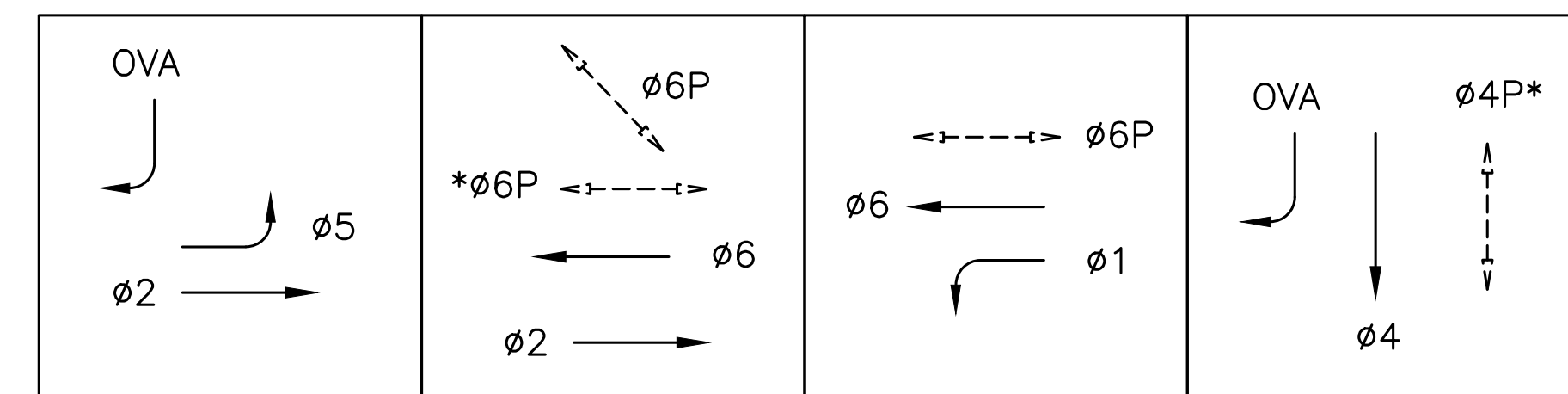
GENERAL NOTES (THIS SHEET ONLY)

- 2" REFLECTIVE TAPE ARE PRESENT ON EXISTING SIGNAL BACKPLATES
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- R/W SHOWN IS APPROXIMATE.
- LOCATION IS SUBJECT TO CALTRANS ENCROACHMENT PERMIT.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- dh DETECTOR HANDHOLE (EXISTING)
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
- 1 INSTALL APS
- 2 INSTALL PEDESTRIAN COUNTDOWN HEAD
- 3 COORDINATE WITH CALTRANS DISTRICT 4 TO PROGRAM A LPI IN THE EXISTING CALTRANS SIGNAL CONTROLLER

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

*LPI- LEADING PEDESTRIAN INTERVAL

100% PLANS



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CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BELLAM BLVD / FRANCISCO BLVD E ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-22.1 |
| | | SHEET NO. | 44 OF 104 |

CONDUCTOR SCHEDULE

| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | | | | | | | | |
|-------------------------|--------------|----------------------|------|------|------|----|------|------|----|----|----|----|------|------|------|------|------|----|
| | | RUN NUMBER | | | | | | | | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | |
| | | 30 | 31 | 32 | 33 | 34 | 36 | 37 | 38 | 39 | 40 | 51 | 52 | 53 | 61 | 62 | 62 | |
| | Ø1 | | | | | | 3 | 3 | | | 3 | 3 | 6 | 6 | | | 3 | |
| | Ø2 | | | | 3 | 3 | | | | | | 3 | 6 | 6 | | | | |
| | Ø4 | | | | | 3 | 3 | 3 | | | | 3 | 6 | 6 | 3 | | 3 | |
| #14 | Ø5 | | 3 | 3 | 3 | 3 | | | | | | | 3 | 3 | | | | |
| | Ø6 | | | 3 | 3 | 3 | 3 | 3 | | | | | 6 | 6 | | | 3 | |
| | Ø2P | | | | 2 | 2 | | | | | | | 2 | 2 | | | | |
| | Ø4P | 2 | 2 | 2 | 2 | 2 | | | | | | | 2 | 2 | | | | |
| | Ø6P | | 2 | 2 | 2 | 2 | 2 | 2 | | | | | 4 | 4 | 2 | | 2 | |
| | OVA | | | | | | 2 | 2 | | | | | 2 | 2 | 2 | | 2 | |
| | Ø2 APS | | | | | 1 | | | | | | | 1 | 1 | | | | |
| | Ø4 APS | | 1 | 1 | 1 | 1 | | | | | | | 1 | 1 | | | | |
| | Ø6 APS | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 2 | 2 | 1 | | 1 | |
| | APS COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 1 | | 1 | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | 3 | 3 | 9 | 9 | 3 | | 3 | |
| | TOTAL #14 | | 7 | 13 | 16 | 21 | 25 | 18 | 18 | 0 | 0 | 6 | 12 | 51 | 51 | 12 | 0 | 18 |
| | #8 | 240V LIGHTING | | | | 2 | 2 | 2 | 2 | | | | 2 | 4 | | | | 2 |
| | #6 | 120V SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 120V SIGNAL SERVICE | | | | | | | | | 2 | 2 | 2 | | | 2 | | | | |
| TOTAL #6 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 3 | 1 | 1 | 1 | |
| DLC | 111U | | | 1 | 1 | 1 | | | | | | | 1 | | | | | |
| | 212U | | | | | | | | 1 | | 1 | | 1 | 1 | | | | |
| | 212L | | | | | | | | 1 | | 1 | | 1 | 1 | | | | |
| | 417U | | | | | | 1 | 1 | | | | | 1 | 1 | | 1 | 1 | |
| | 416U | | | | | | 1 | 1 | | | | | 1 | 1 | | 1 | 1 | |
| | 416L | | | | | | 1 | 1 | | | | | 1 | 1 | | 1 | 1 | |
| | 5J1U | | | | | | 1 | | | | | | 1 | 1 | | | | |
| | 5J1L | | | | | | 1 | | | | | | 1 | 1 | | | | |
| | 6J2U | | | 1 | 1 | 1 | | | | | | | 1 | 1 | | | | |
| | 6J2L | | | 1 | 1 | 1 | | | | | | | 1 | 1 | | | | |
| | 6J3U | | 1 | 1 | 1 | 1 | | | | | | | 1 | 1 | | | | |
| 6J3L | | 1 | 1 | 1 | 1 | | | | | | | 1 | 1 | | | | | |
| TOTAL DLC | | 2 | 5 | 5 | 5 | 5 | 3 | 2 | 0 | 2 | 0 | 12 | 12 | 0 | 3 | 3 | | |
| SIC 12 TWP #20 STRANDED | | | | 1 | 1 | | | | 1 | 1 | 1 | | 2 | 2 | | | | |
| CONDUIT SIZE | | 2" | 2.5" | 2.5" | 2.5" | 3" | 2.5" | 2.5" | 2" | 2" | 2" | | 2.5" | 2-3" | 2.5" | 2.5" | 2.5" | |
| PERCENT FILL | | | | | | | | | | | | | | | | | | |

EQUIPMENT AND POLE SCHEDULE

| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.** | ACCESSIBLE PEDESTRIAN SIGNAL (APS)*** | | SPECIAL REQUIREMENTS |
|----------|-----------|-----------------|--------------------|-----------------------|-------------------------|--------|---------------------|---------------------------------------|-------|----------------------|
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | PPB POST | - | - | - | - | - | - | Ø6 | ← | |
| (B) | 15TS | - | 15' | 310* | - | - | SP-1-T | - | - | |
| (C) | 1-B | - | - | - | - | TV-1-T | - | - | - | |
| (D) | 61A-5-100 | 60' | 15' | 70 | MAS MAS MAS | SV-2-T | SP-2-T | - | - | |
| (E) | PPB POST | - | - | - | - | - | - | Ø6 | ←→ | |
| (F) | 1-B | - | - | - | - | TV-2-T | SP-2-T | Ø4 Ø6 | ←→ | |
| (G) | 26A-3-100 | 45' | 15' | 310* | MAS MAS | SV-1-T | - | - | - | |
| (H) | 1-B | - | - | - | - | TV-1-T | SP-1-T | Ø4 | ← | |
| (I) | 17A-2-80 | 20' | 15' | 310* | MAS | SV-3-T | - | - | - | |

* HPS LUMINAIRES

** ALL PED HEADS SHALL BE NEW COUNTDOWN TYPE
 *** ALL APS SHALL BE NEW

100% PLANS

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 DESIGNED: BA, EC
 APPROVED: DP

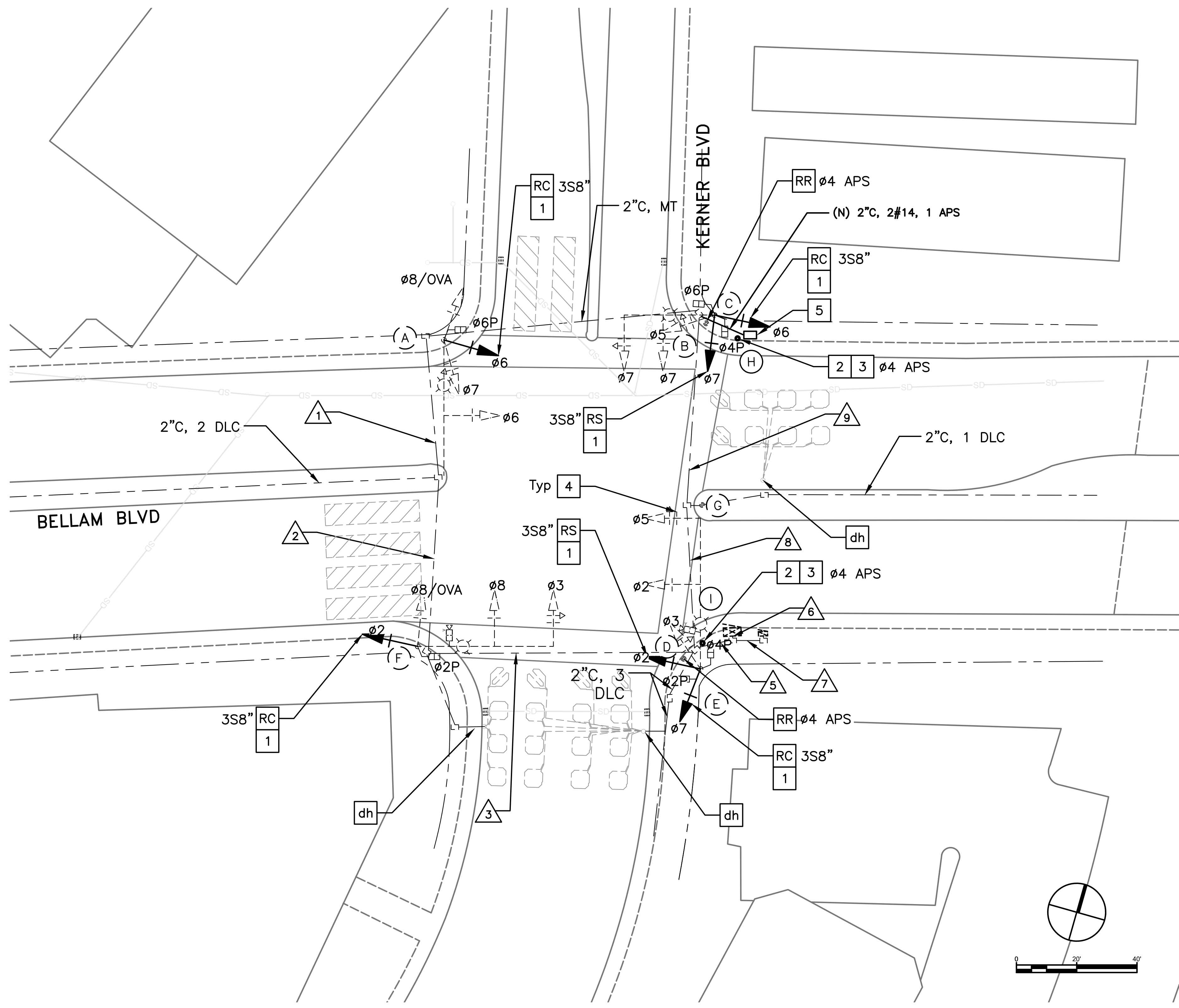


COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 BELLAM BLVD / FRANCISCO BLVD E TRAFFIC SIGNAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-22.2 |
| | | SHEET NO. | 45 OF 104 |





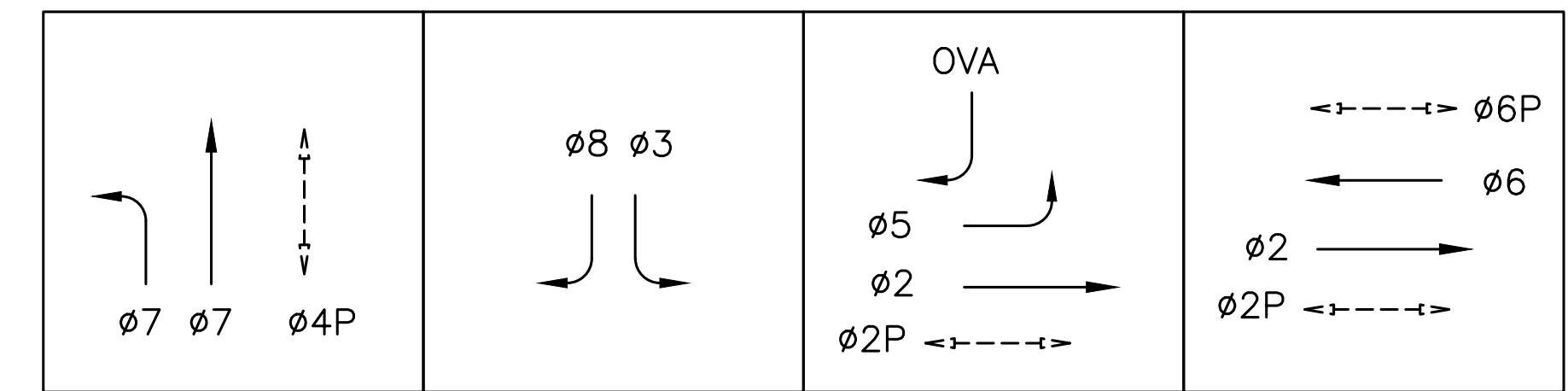
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. COVER HOLES LEFT BY RELOCATED APS / PPB WITH A METAL PLATE.
3. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RR** REMOVE AND REUSE EQUIPMENT.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL PBA POST.
- 3** REINSTALL EXISTING APS ON NEW PBA POST.
- 4** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (18 TOTAL).
- 5** INSTALL No. 5 PULL BOX.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

100% PLANS



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APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BELLAM BLVD / KERNER BLVD ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-23.1 |
| | | SHEET NO. | 46 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | | |
|-----------------------|----------------|----------------------|----|----|-----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | |
| | | RUN NUMBER | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 |
| #14 | Ø2 | | | 3 | 3 | | | | | |
| | Ø3 | | | 3 | 3 | 3 | 3 | | | |
| | Ø5 | | | | | 3 | 3 | | 3 | 3 |
| | Ø6 | 3 | 3 | 3 | 3 | 6 | 6 | | 3 | 3 |
| | Ø7 | 3 | 3 | 3 | 3 | 6 | 6 | | 3 | 3 |
| | Ø8 | 3 | 3 | 3 | 3 | | | | | |
| | OVA | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| | Ø2P | | | 2 | 2 | | | | | |
| | Ø4P | | | | | 2 | 2 | | 2 | 2 |
| | Ø6P | 2 | 2 | 2 | 2 | | | | | |
| | Ø2 APS | | | 1 | 1 | 1 | 1 | | | |
| | Ø4 APS | | | | | 1 | 1 | | 1 | 1 |
| | Ø6 APS | 1 | 1 | 1 | 1 | | | | | |
| | APS COMMON | 1 | 1 | 1 | 1 | 2 | 2 | | 1 | 1 |
| | PEC | | | | | | | | | |
| SPARES | 3 | 3 | 3 | | | | | | | |
| TOTAL #14 | 18 | 18 | 27 | 24 | 26 | 26 | 0 | 13 | 13 | |
| #8 | SIGNAL SERVICE | | | | | 2 | 2 | | | |
| | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 2 | | 1 | 1 |
| | STREET LIGHTS | 2 | 2 | 2 | 2 | 4 | | 4 | 2 | 2 |
| | TOTAL #8 | 3 | 3 | 3 | 3 | 5 | 2 | 4 | 3 | 3 |
| DLC | Ø2 | | 2 | 2 | 2 | 2 | | | | |
| | Ø6 | | | | | 2 | 2 | | 2 | |
| | Ø7 | | | 1 | 1 | 4 | 4 | | | |
| VIDEO | CABLE | | | 1 | 1 | 2 | 2 | | | |
| SIC | | | | | | 1 | 1 | | | |
| CONDUIT SIZE (INCHES) | | 3 | 3 | 3 | 2-3 | 3 | 3 | 3 | 3 | |
| PERCENT FILL | | | | | | | | | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 26A-3-80 | 45' | 15' | 145 | MAS | SV-3-T NEW | SP-1-T | Ø6 | → | REPLACE (E) 3S8" WITH (N) 3S12" (Ø6). INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (4). |
| (B) | PBA POST | - | - | - | - | - | - | Ø6 | ← | |
| (C) | 19A-3-80 | 30' | 15' | 145 | MAS MAS | SV-3-T NEW | SP-2-T | - | | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø6&7). INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (5). |
| (D) | PBA POST | - | - | - | - | - | - | Ø2 | → | |
| (E) | 29A-5-80 | 50' | 15' | 145 | MAS MAS | SV-3-T NEW | SP-2-T | - | | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø2&7). INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (5). |
| (F) | 26A-3-80 | 45' | 15' | 145 | MAS MAS | SV-3-T NEW | SP-1-T | Ø2 | ← | REPLACE (E) 3S8" WITH (N) 3S12" (Ø2). INSTALL 2" REFLECTIVE TAPE ON EXISTING AND NEW BACKPLATES (4). |
| (G) | PBA POST | - | - | - | - | - | - | Ø4 | | |
| (H) | PBA POST (NEW) | - | - | - | - | - | - | Ø4 | → | |
| (I) | PBA POST (NEW) | - | - | - | - | - | - | Ø4 | ← | |

* ALL APS SHALL BE REUSED FROM EXISTING

100% PLANS



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(510) 343-6400

DRAWN: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP

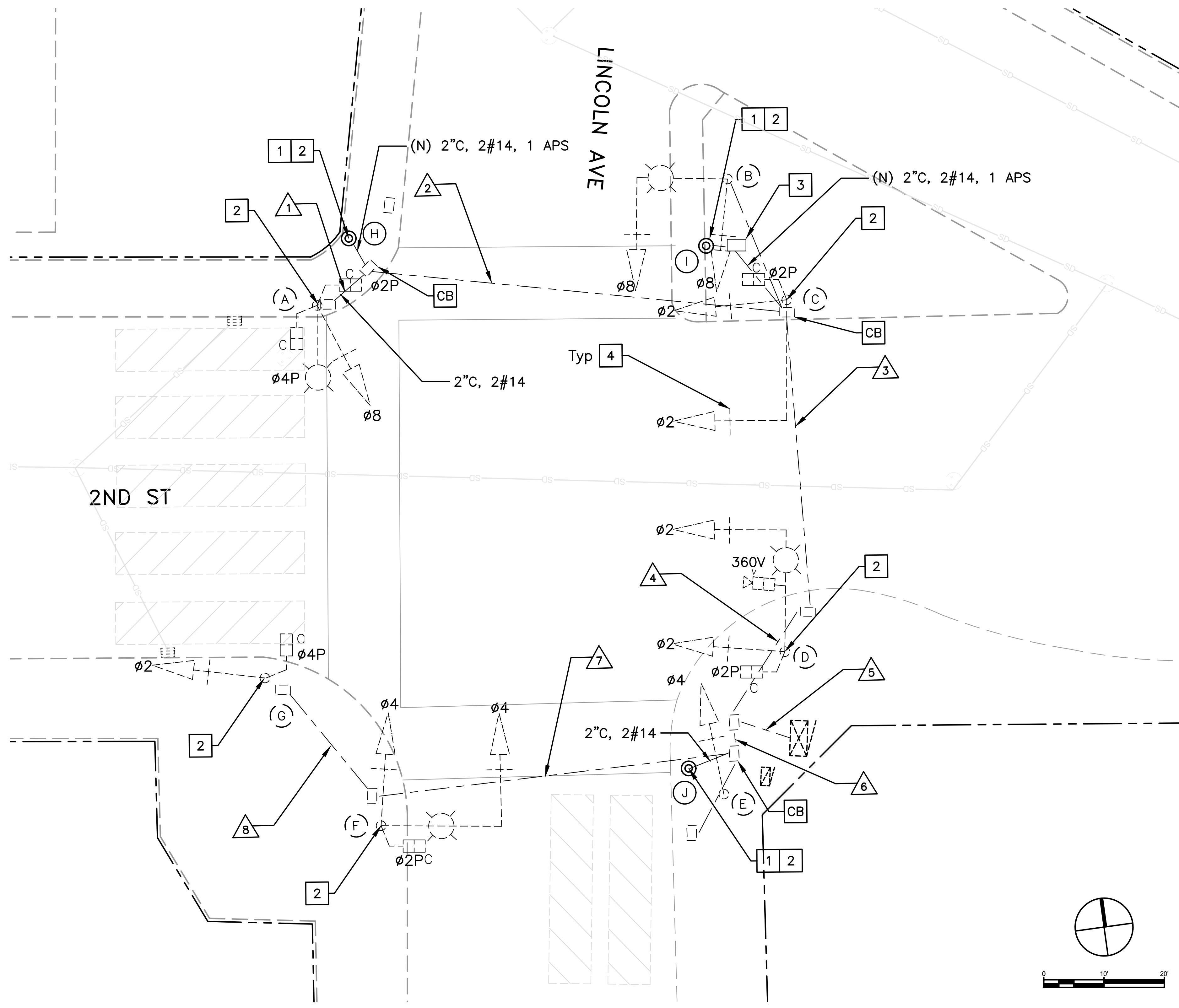


COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BELLAM BLVD / KERNER BLVD ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-23.2
SHEET NO. 47 OF 104



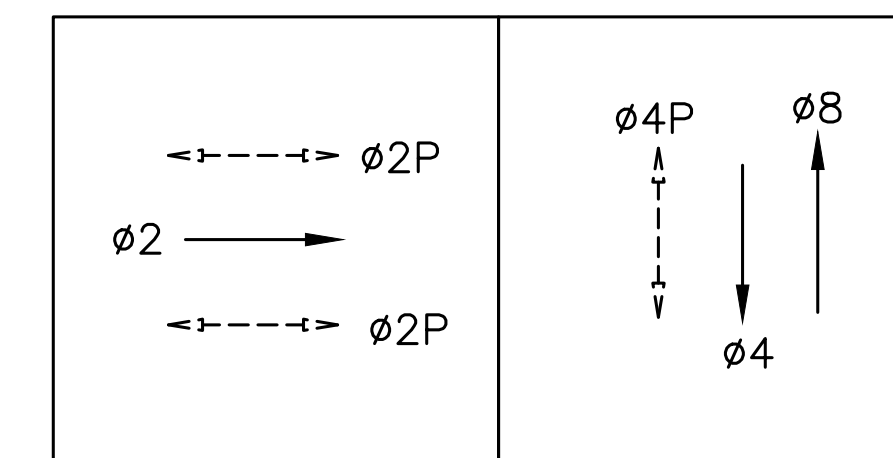
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

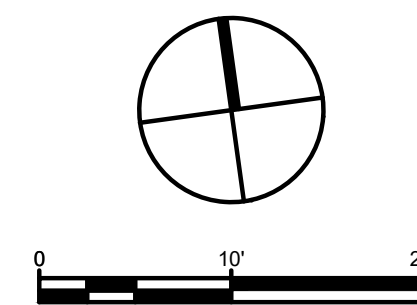
CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- 1** INSTALL PBA POST.
- 2** INSTALL APS.
- 3** INSTALL NEW No. 5 NEW PULL BOX.
- 4** INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (11 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →



100% PLANS



Parisi
TRANSPORTATION CONSULTING

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Berkeley CA 94704
(510) 343-6400

DRAWN: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / LINCOLN AVE ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-24.1 |
| | | SHEET NO. | 48 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | |
| | | RUN NUMBER | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| #14 | Ø2 | | | 3 | 3 | 6 | 3 | 3 | 3 |
| | Ø4 | | | | | 3 | 3 | 3 | 3 |
| | Ø8 | 3 | 3 | 3 | 3 | 3 | | | |
| | Ø2P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | |
| | Ø4P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| | Ø2 APS | | 1 | 1 | 1 | 2 | 1 | 1 | |
| | Ø4 APS | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | APS COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | SPARES | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| TOTAL #14 | 10 | 10 | 13 | 13 | 26 | 13 | 13 | 11 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | STREET LIGHTS | 2 | 2 | 2 | 2 | 4 | 2 | 2 | |
| | TOTAL #10 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 1 |
| VIDEO DETECTION | CABLE | | | | 2 | 2 | | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|-----------------------|-------------------------|----------|-------------------|-------------------------------------|-----------|----------------------|---|
| LOCATION | STANDARD | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS | |
| | TYPE | SIGNAL MAST ARM | | LUMINAIRE MAST ARM | MAST ARM | | POLE | PHASE (Ø) | | ARROW |
| (A) | 15 | - | 12' | 145 | - | SV-1-T | SP-2-T | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | 17A-2-70 | 15' | 15' | 145 | MAS | SV-1-T | - | - | - | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (C) | 16-1-70 | 20' | - | - | MAS | SV-1-T | SP-1-T | - | - | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | 17A-2-70 | 20' | 15' | 145 | MAS | SV-1-T | SP-1-T | - | - | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (E) | 1-B | - | - | - | - | TV-1-T | - | - | - | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (F) | 17A-3-70 | 20' | 15' | 145 | MAS | SV-1-T | SP-1-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (G) | 1-B | - | - | - | - | TV-1-T | SP-1-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (H) | PBA POST (NEW) | - | - | - | - | - | - | 2P | → | |
| (I) | PBA POST (NEW) | - | - | - | - | - | - | 2P | ← | |
| (J) | PBA POST (NEW) | - | - | - | - | - | - | 2P | → | |

* ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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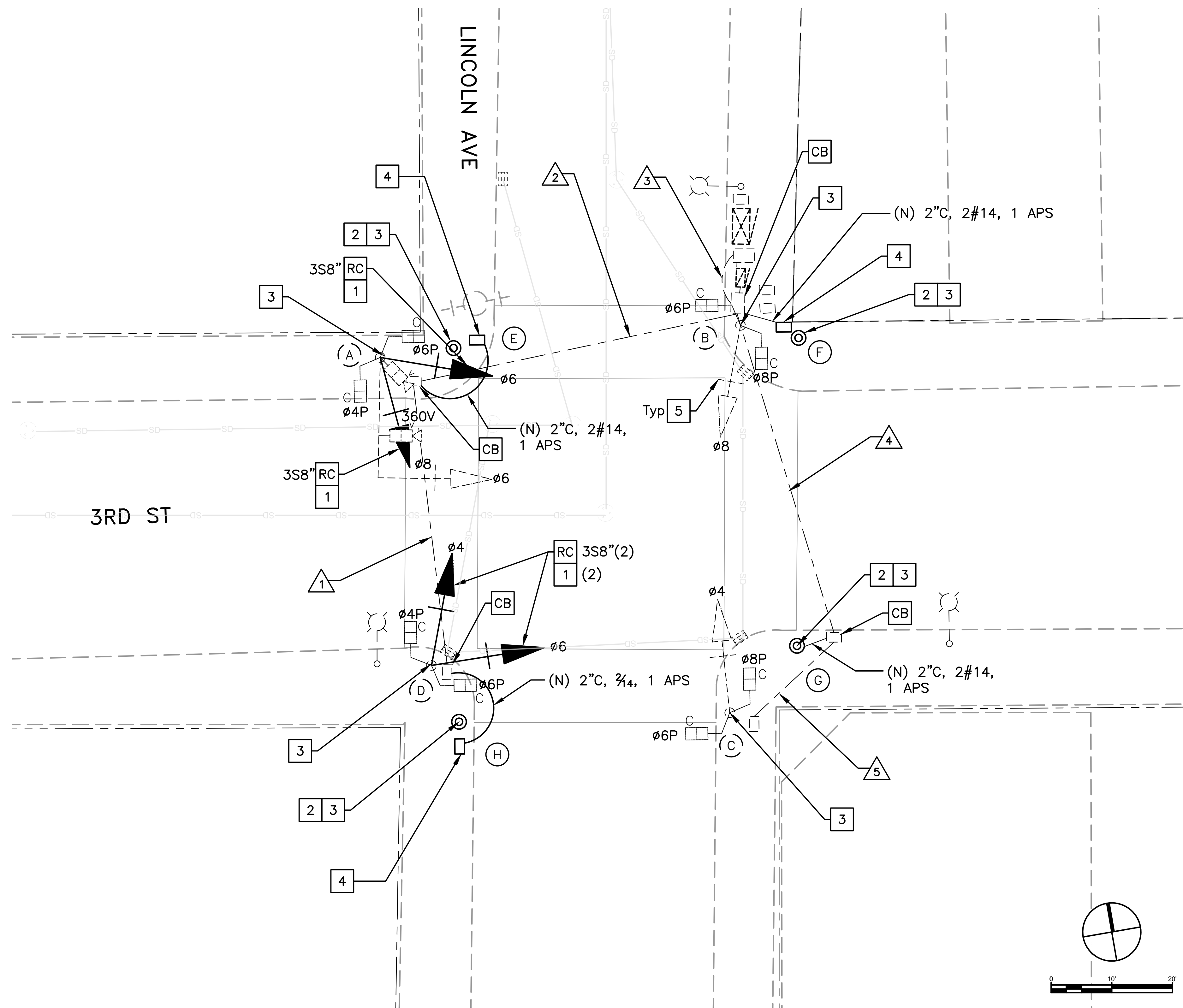
DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / LINCOLN AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-24.2 |
| | | SHEET NO. | 49 OF 104 |



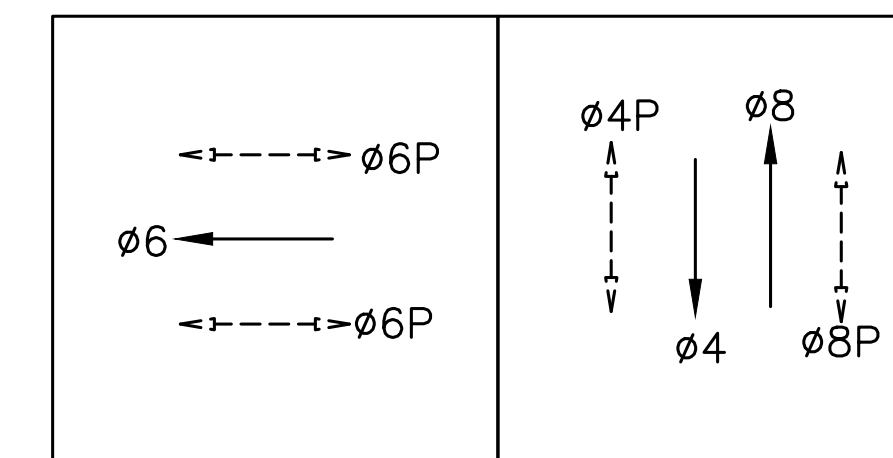
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1 INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2 INSTALL PBA POST.
- 3 INSTALL APS.
- 4 INSTALL NEW No. 5 PULL BOX.
- 5 INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (7 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE

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| DESIGNED: BA, EC | APPROVED: DP |



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
3RD ST / LINCOLN AVE ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-25.1 |
| | | SHEET NO. | 50 OF 104 |

| CONDUCTOR SCHEDULE | | | | | | |
|--------------------|--------------|----------------------|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | |
| | | RUN NUMBER | | | | |
| | | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 |
| #14 | Ø4 | 3 | 3 | 6 | 3 | 3 |
| | Ø6 | 3 | 3 | 3 | | |
| | Ø8 | | 3 | 3 | | |
| | Ø4P | 2 | 2 | 2 | | |
| | Ø6P | 2 | 2 | 4 | 2 | 2 |
| | Ø8P | | | 2 | 2 | 2 |
| | Ø4 APS | 1 | 1 | 1 | | |
| | Ø6 APS | 1 | 1 | 2 | 1 | 1 |
| | Ø8 APS | | | 1 | 1 | |
| | APS COMMON | 1 | 1 | 2 | 1 | 1 |
| | SPARES | 0 | 0 | 0 | 0 | 1 |
| TOTAL #14 | | 13 | 16 | 26 | 10 | 10 |

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 16-2-70 | 20' | - | - | MAS | SV-2-T (NEW) | SP-2-T | 4P | ← | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø6&8). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (3). |
| (B) | 1-B | - | - | - | - | TV-1-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (C) | 1-B | - | - | - | - | TV-1-T | SP-2-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (D) | 1-B | - | - | - | - | TV-2-T (NEW) | SP-2-T | 4P | → | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø4&6). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2). |
| (E) | PBA POST (NEW) | - | - | - | - | - | - | 6P | → | |
| (F) | PBA POST (NEW) | - | - | - | - | - | - | 8P | → | |
| (G) | PBA POST (NEW) | - | - | - | - | - | - | 8P | ← | |
| (H) | PBA POST (NEW) | - | - | - | - | - | - | 6P | ← | |

* ALL APS SHALL BE NEW

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DESIGNED: BA, EC

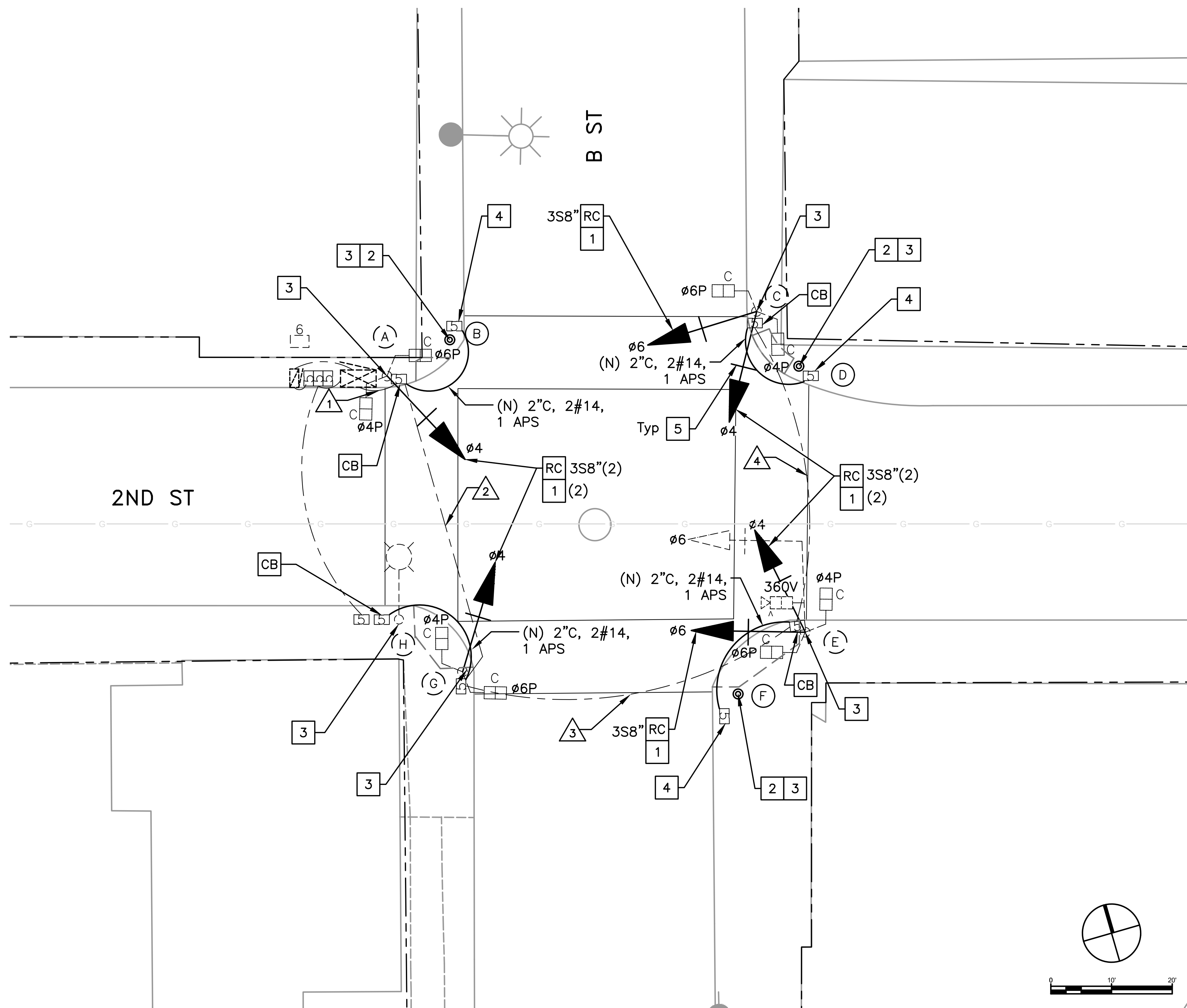
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COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
3RD ST / LINCOLN AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-25.2 |
| | | SHEET NO. | 51 OF 104 |



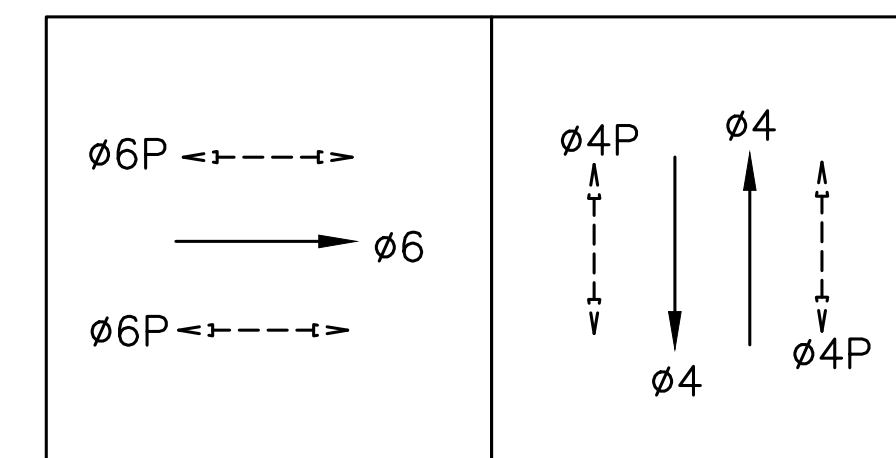
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

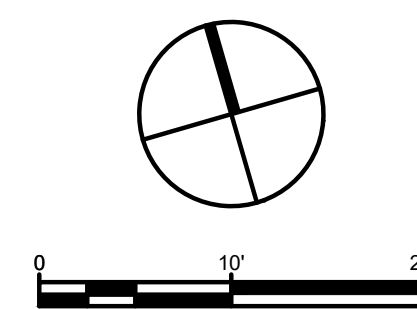
CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- 1 INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2 INSTALL PBA POST.
- 3 INSTALL APS.
- 4 INSTALL NEW No. 5 PULL BOX.
- 5 INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (7 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →



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COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / B ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-26.1 |
| | | SHEET NO. | 52 OF 104 |

| CONDUCTOR SCHEDULE | | | | | |
|-----------------------|---------------|----------------------|------|------|------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | |
| | | RUN NUMBER | | | |
| | | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 |
| #14 | Ø4 | 3 | 3 | 3 | 3 |
| | Ø6 | 3 | 3 | 3 | 3 |
| | Ø4P | 2 | 2 | 2 | 2 |
| | Ø6P | 2 | 2 | 2 | 2 |
| | Ø4P APS | | | | |
| | Ø6P APS | | | | |
| | APS COMMON | | | | |
| | SPARES | 10 | 10 | 10 | 7 |
| | TOTAL #14 | | | | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 |
| | TOTAL #10 | 1 | 1 | 1 | 1 |
| VIDEO | CABLE | 1 | 1 | 1 | |
| | | | | | |
| CONDUIT SIZE (INCHES) | | 1.5" | 1.5" | 1.5" | 1.5" |
| PERCENT FILL | | | | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 1-B | | | | | TV-1-T (NEW) | SP-2-T | 4P | ← | REPLACE (E) 3S8" WITH (N) 3S12" (Ø4). INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1). |
| (B) | PBA POST (NEW) | | | | | | | 6P | → | |
| (C) | 1-B | | | | | TV-1-T (NEW) | SP-2-T | 6P | ← | REPLACE (E) 3S8" WITH (N) 3S12" (Ø4&6). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (2) |
| (D) | PBA POST (NEW) | | | | | | | 4P | → | |
| (E) | 16-2-70 | 15 | | | MAT | SV-2-T (NEW) | SP-2-T | 4P | ← | REPLACE (E) 3S8" WITH (N) 3S12" (Ø4&6). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (3) |
| (F) | PBA POST (NEW) | | | | | | | 6P | → | |
| (G) | 1-B | | | | | TV-1-T (NEW) | SP-2-T | 6P | ← | REPLACE (E) 3S8" WITH (N) 3S12" (Ø4). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATE (1) |
| (H) | 15TS | | 12 | UNK | | | | 4P | → | STREET LIGHT POWERED ON A SEPARATE STREET LIGHTING CIRCUIT |

* ALL APS SHALL BE NEW

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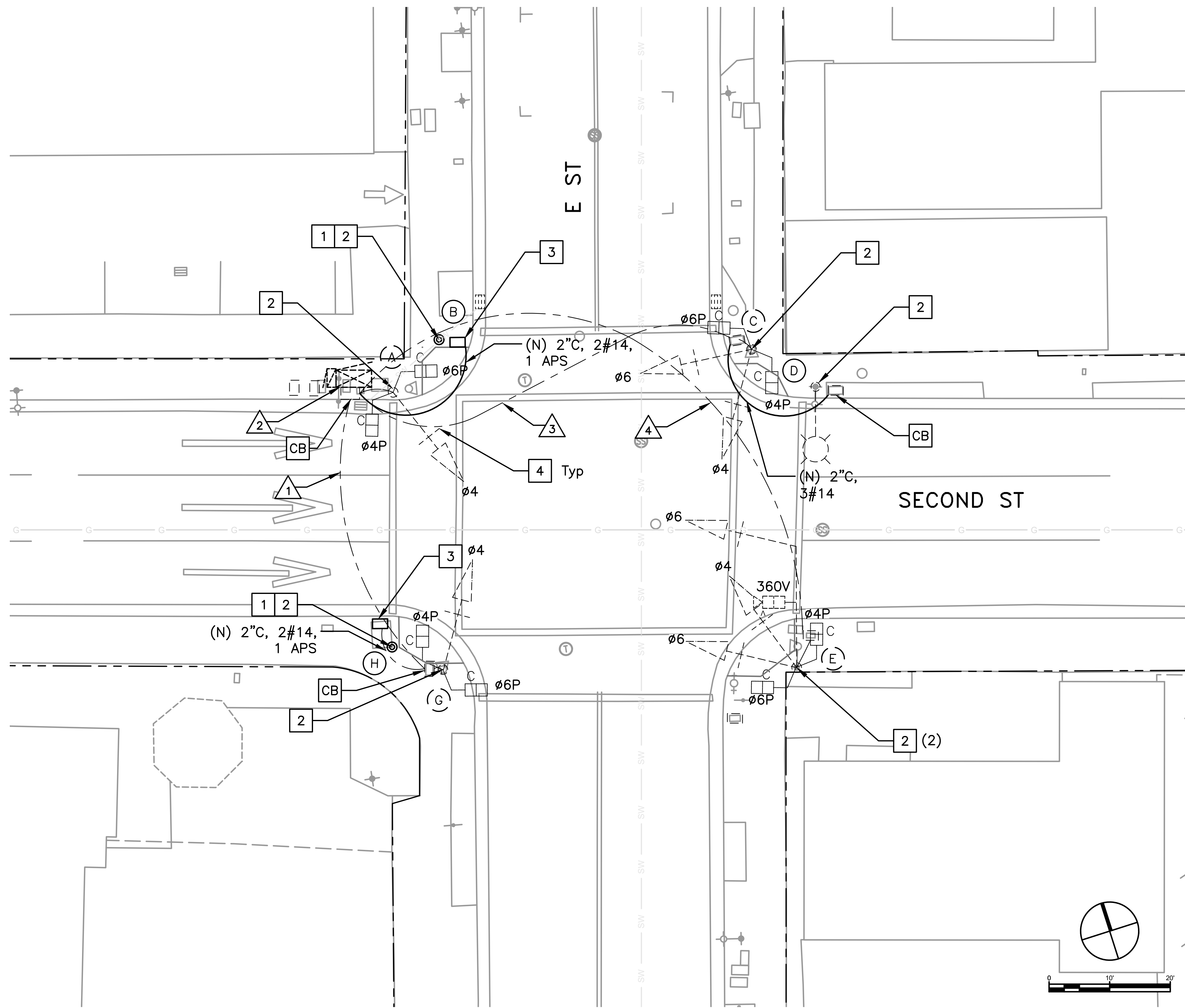


COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / B ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|------------|-------|
| △1 | | 10/01/2021 | N/A |
| △2 | | | |
| △3 | | | |
| △4 | | | |
| NO. | DESCRIPTION | | |

PTC PROJECT NO. 20036
DRAWING E-26.2
SHEET NO. 53 OF 104



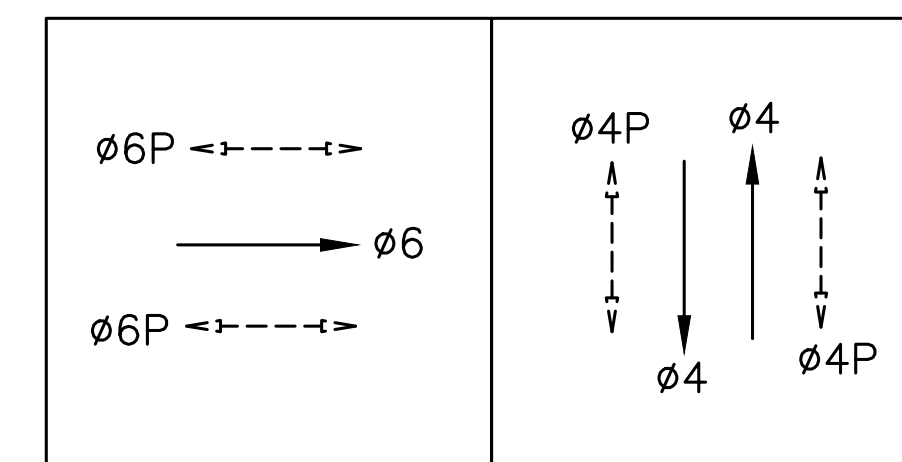
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB INSTALL CONDUIT INTO EXISTING PULL BOX.
- 1 INSTALL PBA POST.
- 2 INSTALL APS.
- 3 INSTALL NEW No. 5 PULL BOX.
- 4 INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (7 TOTAL).

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE →

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COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / E ST ELECTRICAL PLAN



| REVISIONS | |
|-----------|-------------|
| NO. | DESCRIPTION |

| | |
|-----------------|----------|
| DATE | SCALE |
| 10/01/2021 | AS SHOWN |
| PTC PROJECT NO. | |
| 20036 | |
| DRAWING | |
| E-27.1 | |
| SHEET NO. | |
| 54 OF 104 | |

| CONDUCTOR SCHEDULE | | | | | |
|-----------------------|---------------|----------------------|------|------|------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | |
| | | RUN NUMBER | | | |
| | | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 |
| #14 | Ø4 | 3 | 9 | 3 | 3 |
| | Ø6 | | 9 | 3 | 3 |
| | Ø4P | 2 | 6 | 2 | 2 |
| | Ø6P | 2 | 6 | 2 | 2 |
| | TOTAL #14 | 7 | 30 | 10 | 10 |
| #10 | SIGNAL COMMON | 1 | 3 | 1 | 1 |
| | TOTAL #10 | 1 | 3 | 1 | 1 |
| VIDEO | CABLE | | 1 | | 1 |
| | | | | | |
| CONDUIT SIZE (INCHES) | | 1.5" | 1.5" | 1.5" | 1.5" |
| PERCENT FILL | | | | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------|-------------------|-------------------------------------|--------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | 1-B | | | | | TV-1-T | SP-2-T | 4P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (B) | PPA POST (NEW) | | | | | | | 6P | → | |
| (C) | 1-B | | | | | TV-2-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | PPA POST (NEW) | | | | | | | 4P | → | |
| (E) | 16-2-70 | 20 | | | | MAT | SV-2-T | 4P 6P | ← → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (G) | 1-B | | | | | TV-1-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (H) | PPA POST (NEW) | | | | | | | 4P | → | |

* ALL APS SHALL BE NEW

100% PLANS



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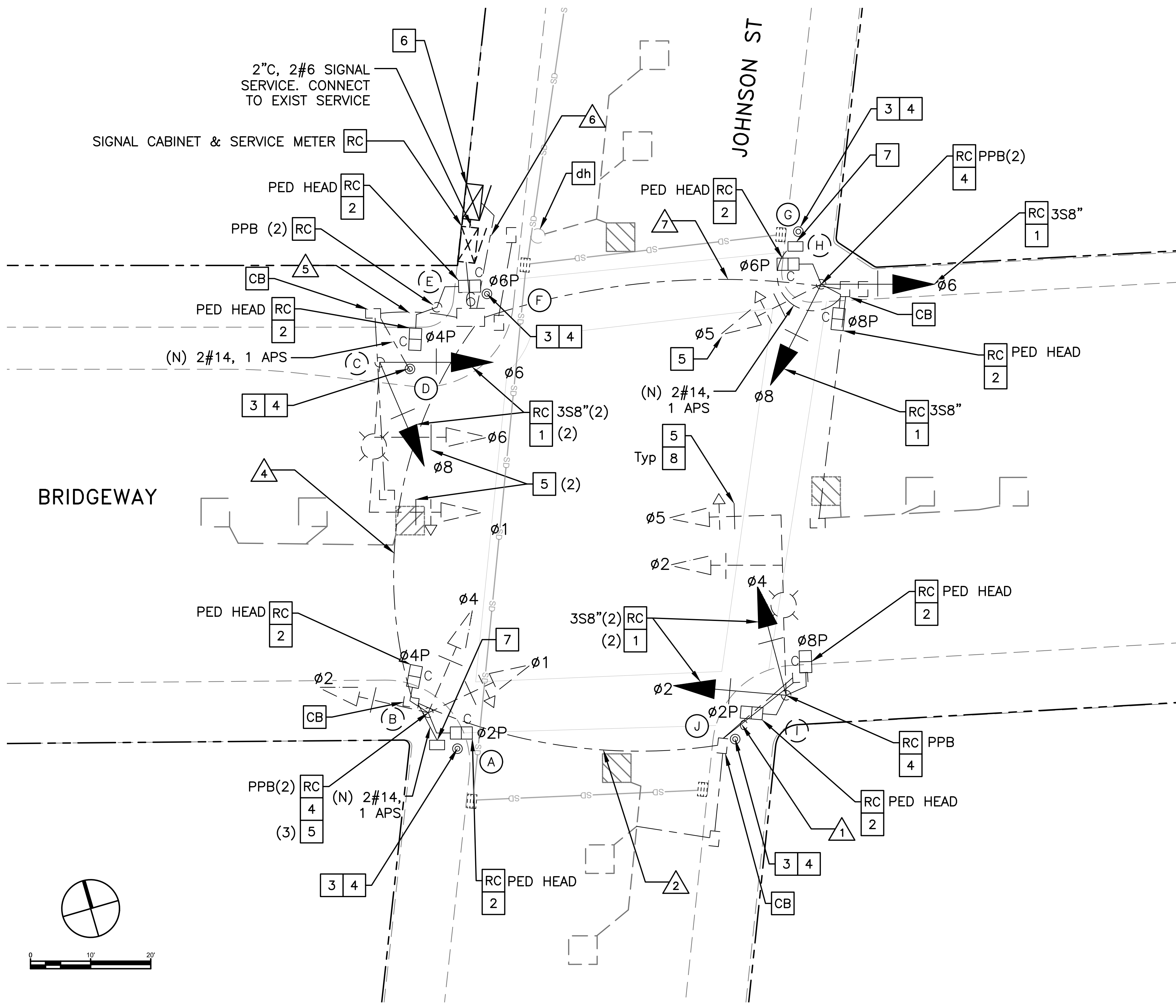
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DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
2ND ST / E ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-27.2 |
| | | SHEET NO. | 55 OF 104 |



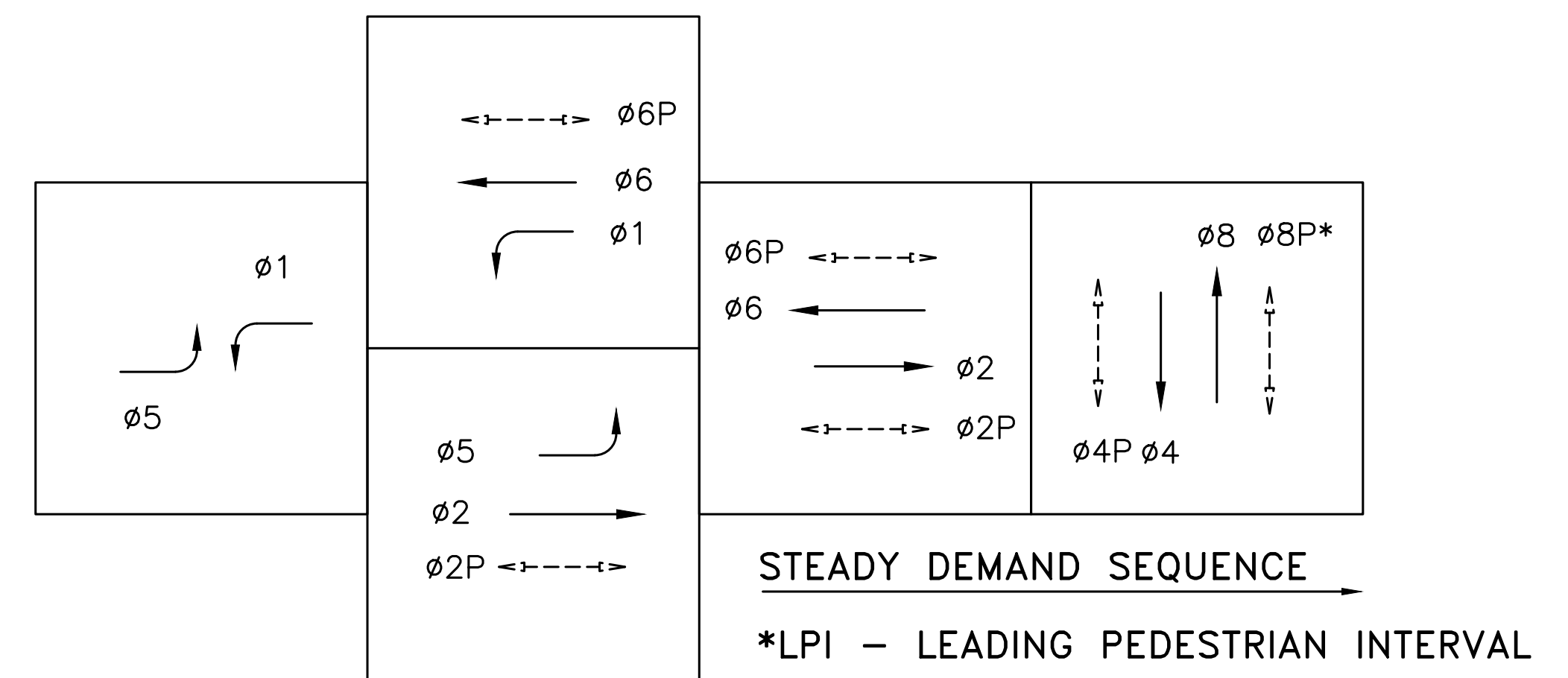
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES AND CABINETS ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- dh** DETECTOR HANDHOLE.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RS** REMOVE AND SALVAGE EQUIPMENT.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL COUNTDOWN PEDESTRIAN HEAD.
- 3** INSTALL NEW PBA POST.
- 4** INSTALL APS.
- 5** INSTALL BACKPLATE ON EXISTING 12" SIGNAL HEAD.
- 6** INSTALL NEW TYPE 332 SIGNAL CABINET ON A NEW FOUNDATION, MODEL 2070E CONTROLLER ASSEMBLY WITH 2033 SOFTWARE, COMMUNICATION MODEM, 2010 CONFLICT MONITOR, AND ALL AUXILIARY EQUIPMENT TO CONTROL THE SYSTEM AS SHOWN IN THE PLANS. INSTALL A NEW TYPE III-AF SERVICE METER (120/240V) AND CONNECT TO EXISTING SERVICE. PREPARE COMPLETE 2033 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI PROGRAM THE NEW CONTROLLER.
- 7** INSTALL NEW No. 5 PULL BOX.
- 8** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (13 TOTAL).

EXISTING PHASE DIAGRAM



100% PLANS

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(510) 343-6400

DESIGNED: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BRIDGEWAY / JOHNSON ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-28.1 |
| | | SHEET NO. | 56 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|-----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | |
| | | RUN NUMBER | | | | | |
| | | EX | EX | EX | EX | NEW | EX |
| | | 1 | 2 | 4 | 5 | 6 | 7 |
| #14 | Ø1 | | | 3 | 3 | 6 | |
| | Ø2 | 3 | 3 | 3 | | 6 | |
| | Ø4 | 3 | 3 | 3 | | 3 | |
| | Ø5 | 3 | 3 | 3 | | 6 | 3 |
| | Ø6 | | | | 3 | 6 | 3 |
| | Ø8 | | | | 3 | 6 | 3 |
| | Ø2P | 2 | 2 | 2 | | 2 | |
| | Ø4P | | | 2 | 2 | 4 | |
| | Ø6P | | | | | 2 | 2 |
| | Ø8P | 2 | 2 | 2 | | 4 | 2 |
| | Ø2 APS | | 1 | 1 | | 1 | |
| | Ø4 APS | | | 1 | 1 | 2 | |
| | Ø6 APS | | | | | 1 | 1 |
| | Ø8 APS | 1 | 1 | 1 | | 2 | 1 |
| APS COMMON | 1 | 1 | 1 | 1 | 3 | 1 | |
| SPARES | 3 | 3 | 3 | 3 | 3 | 3 | |
| TOTAL #14 | 18 | 19 | 25 | 16 | 57 | 19 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 |
| | LUMINAIRES | 2 | 2 | 2 | 2 | 4 | |
| | TOTAL #10 | 3 | 3 | 3 | 3 | 5 | 1 |
| DLC* | Ø1 | | | | | 1 | 1 |
| | Ø4 | | | | | 1 | |
| | Ø5 | | | | 1 | 1 | |
| | Ø8 | | 1 | 1 | | 1 | |
| | TOTAL DLC | 0 | 1 | 1 | 1 | 4 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|--------------------|--------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | PBA POST (NEW) | | | | | | | 2P | ← | |
| (B) | 1-B | | | | | TV-3-T | SP-2-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (C) | 19-3-70 | 25 | 12 | 52 | MAT MAT | SV-2-T (NEW) | | | | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø6&8). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (4) |
| (D) | PBA POST (NEW) | | | | | | | 4P | ← | |
| (E) | 1-B | | | | | | TP-2-T | | | |
| (F) | PBA POST (NEW) | | | | | | | 6P | → | |
| (G) | PBA POST (NEW) | | | | | | | 6P | ← | |
| (H) | 1-B | | | | | TV-3-T (NEW) | SP-2-T | 8P | → | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø6&8). INSTALL 2" REFLECTIVE TAPE ON NEW BACKPLATES (3). |
| (I) | 19-3-70 | 30 | 12 | 52 | MAT MAT | SV-2-T (NEW) | SP-2-T | 8P | ← | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø2&4). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (4). |
| (J) | PBA POST (NEW) | | | | | | | 2P | → | |

* ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 ** ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

*DLC CABLES SHALL RUN UNSPLICED FROM DETECTOR TO NEW CONTROLLER. CONTRACTOR MAY REROUTE EXISTING CABLE TO THE NEW CONTROLLER. IF THE EXISTING CABLE SLACK IS NOT SUFFICIENT TO CONNECT TO THE NEW CONTROLLER, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW VIDEO AND/OR NEW EVP CABLES.

100% PLANS



Parisi
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DRAWN: BA, DH
DESIGNED: BA, EC

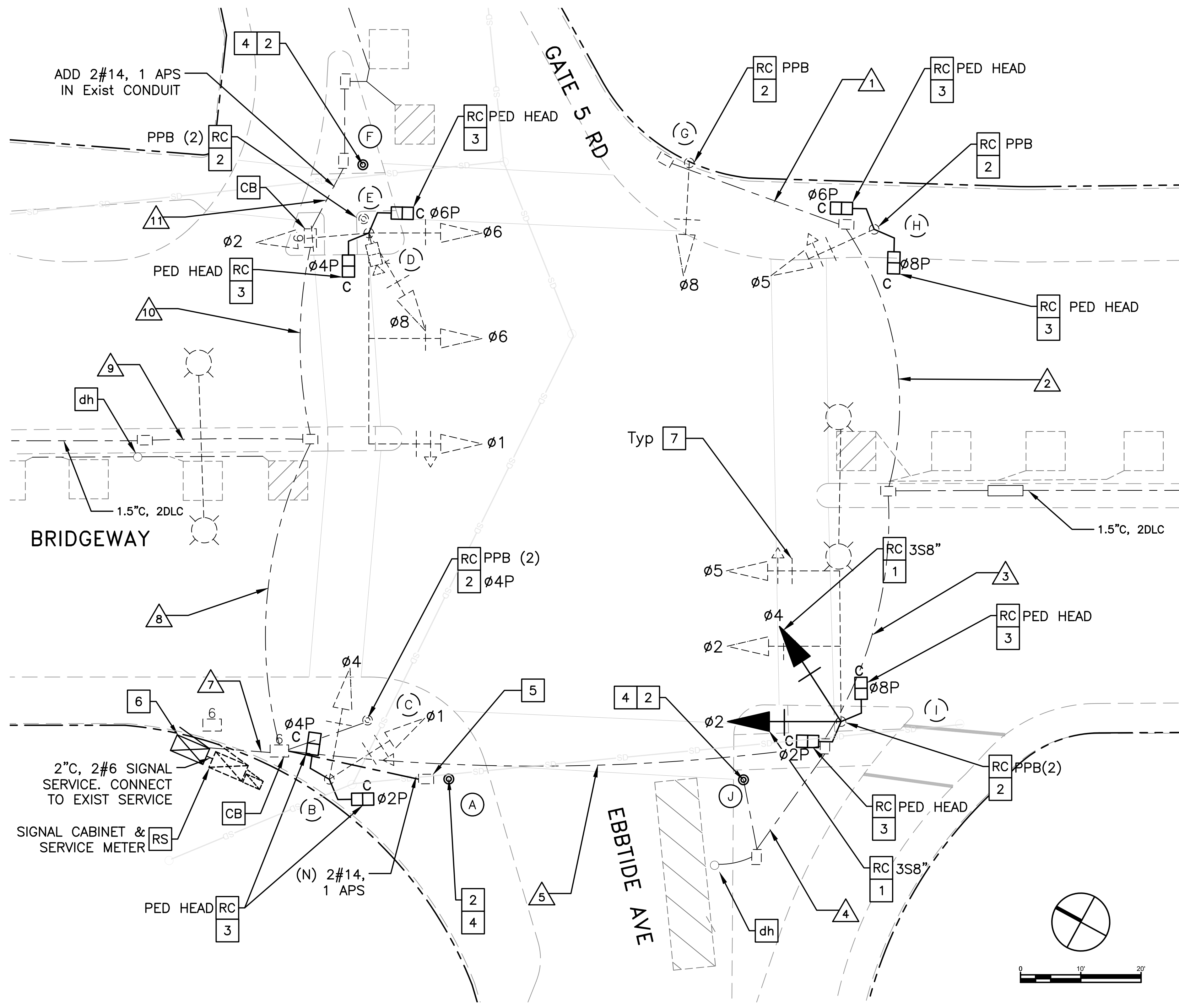
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 BRIDGEWAY / JOHNSON ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------------|-------------|------------|-------|
| 1 | | 10/01/2021 | N/A |
| PTC PROJECT NO. | | 20036 | |
| DRAWING | | E-28.2 | |
| SHEET NO. | | 57 OF 104 | |
| NO. | DESCRIPTION | | |



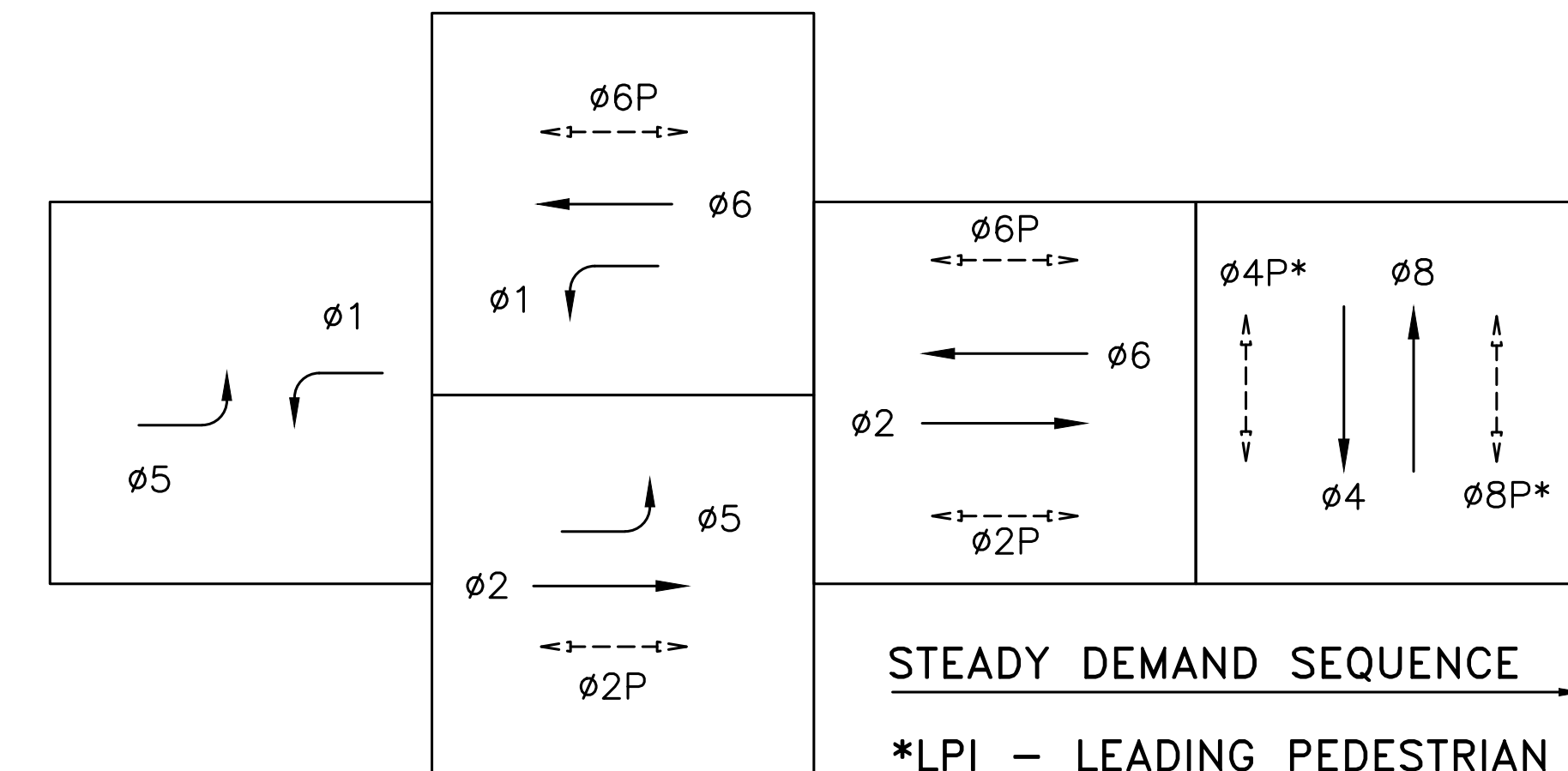
GENERAL NOTES (THIS SHEET ONLY)

- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- LOCATIONS OF NEW POLES AND CABINETS ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT BOX INTO EXISTING PULL BOX.
- dh** DETECTOR HANDHOLE.
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- RS** REMOVE AND SALVAGE EQUIPMENT.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL APS.
- 3** INSTALL PEDESTRIAN COUNTDOWN HEAD.
- 4** INSTALL NEW PBA POST.
- 5** INSTALL NEW No. 5 PULL BOX.
- 6** INSTALL NEW TYPE 332 SIGNAL CABINET ON A NEW FOUNDATION, MODEL 2070E CONTROLLER ASSEMBLY WITH 2033 SOFTWARE, COMMUNICATION MODEM, 2010 CONFLICT MONITOR, AND ALL AUXILIARY EQUIPMENT TO CONTROL THE SYSTEM AS SHOWN IN THE PLANS. INSTALL A NEW TYPE III-AF SERVICE METER (120/240V) AND CONNECT TO EXISTING SERVICE. PREPARE COMPLETE 2033 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD AN LPI. PROGRAM THE NEW CONTROLLER.
- 7** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (13 TOTAL).

EXISTING PHASE DIAGRAM



100% PLANS

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Berkeley CA 94704
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DRW: BA, DH CHECKED: AL
DESIGNED: BA, EC APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BRIDGEWAY / GATE 5 RD / EBBTIDE AVE PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-29.1 |
| | | SHEET NO. | 58 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|-----------------------|---------------|----------------------|----|------|----|----|-----|------|------|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | NEW | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | |
| #14 | Ø1 | | | | | | 3 | 3 | | 3 | |
| | Ø2 | | | | | | 3 | 6 | 3 | 3 | |
| | Ø4 | | | | | | 3 | 6 | | | |
| | Ø5 | | 3 | 3 | | | 3 | 3 | | | |
| | Ø6 | | | | | | | 3 | 3 | 3 | |
| | Ø8 | 3 | 3 | 3 | | | 3 | 3 | | | |
| | Ø2P | | | | | | 2 | 2 | | | |
| | Ø4P | | | | | | 2 | 2 | | 2 | |
| | Ø6P | | 2 | 2 | | | 2 | 4 | 2 | 2 | |
| | Ø8P | | 2 | 2 | | | 2 | 2 | | | |
| | Ø2 APS | | | | | 1 | 1 | 1 | | | |
| | Ø4 APS | | | | | | 1 | 1 | | 1 | |
| | Ø6 APS | | 1 | 1 | | | 1 | 1 | | | |
| | Ø8 APS | | 1 | 1 | | | 1 | 2 | 1 | 1 | |
| APS COMMON | | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | | |
| SPARES | 3 | 3 | 3 | 3 | 3 | 6 | 3 | | 3 | | |
| TOTAL No. 14 | | 6 | 16 | 16 | 5 | 25 | 47 | 19 | 0 | 19 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | | 1 | 2 | 1 | | 1 | |
| VIDEO* | CABLE | | | | | | 1 | 1 | | 1 | |
| DLC* | Ø1 | | | 1 | | 1 | 1 | | | | |
| | Ø2 | | | 2 | | 2 | 2 | | | | |
| | Ø4 | | | | | | 1 | 1 | | 1 | |
| | Ø5 | | | | | | 1 | 1 | 1 | | |
| | Ø6 | | | | | | 2 | 2 | | | |
| TOTAL DLC | | 0 | 0 | 3 | 1 | 3 | 7 | 4 | 1 | 1 | |
| CONDUIT SIZE (INCHES) | | 2 | 2 | 1.50 | 2 | 2 | 2-3 | 1.50 | 1.50 | | |
| PERCENT FILL | | | | | | | | | | | |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|--------------|---------------------|---------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.** | ACCESSIBLE PEDESTRIAN SIGNAL (APS)*** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| (A) | PBA POST (NEW) | | | | | | | 2P | ← | |
| (B) | 1-B | | | | | TV-2-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (C) | PBA POST | | | | | | | 4P | ← | |
| (D) | 23-3-70 | 35 | | | MAT MAS | SV-3-T | SP-2-T | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (5) |
| (E) | PBA POST | | | | | | | 4P | → | |
| (F) | PBA POST (NEW) | | | | | | | 6P | → | |
| (G) | 1-B | | | | | TV-1-T | | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (H) | 1-B | | | | | TV-1-T | SP-2-T | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (I) | 18-2-70 | 25 | | | MAT MAS | SV-2-T (NEW) | SP-2-T | 8P | ← | REPLACE (E) 2-3S8" WITH (N) 2-3S12" (Ø2&4). INSTALL 2" REFLECTIVE TAPE ON NEW & EXISTING BACKPLATES (4). |
| (J) | PBA POST (NEW) | | | | | | | 2P | → | |

** ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 *** ALL APS SHALL BE NEW

*VIDEO & DLC CABLES SHALL RUN UNSPLICED FROM CAMERA/DETECTOR TO NEW CONTROLLER. CONTRACTOR MAY REROUTE EXISTING CABLE TO THE NEW CONTROLLER. IF THE EXISTING CABLE SLACK IS NOT SUFFICIENT TO CONNECT TO THE NEW CONTROLLER, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW VIDEO AND/OR EVP CABLES.

100% PLANS



Parisi
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(510) 343-6400

DRAWN: BA, DH
DESIGNED: BA, EC

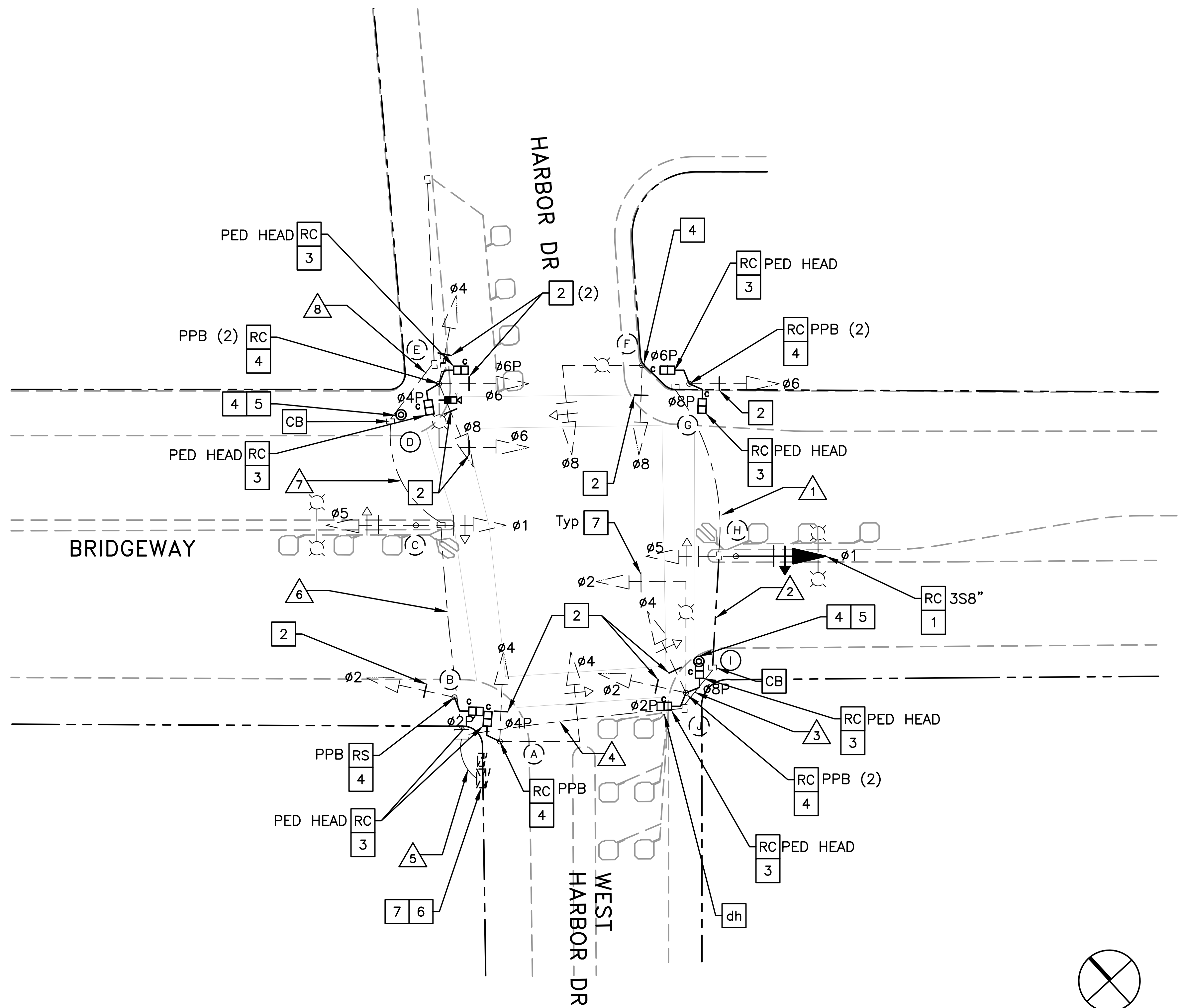
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 BRIDGEWAY / GATE 5 RD / EBBTIDE AVE SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-29.2 |
| | | SHEET NO. | 59 OF 104 |



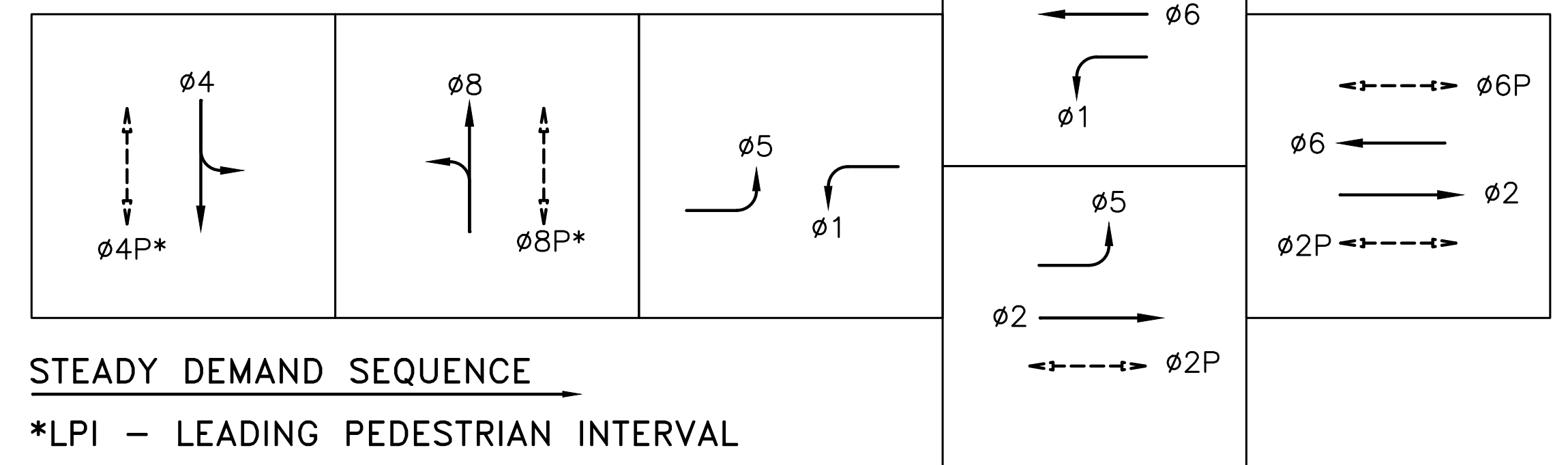
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- CB** INSTALL CONDUIT INTO EXISTING PULL BOX.
- dh** DETECTOR HANDHOLE (EXISTING).
- RC** EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- 1** INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- 2** INSTALL NEW BACKPLATE ON EXISTING TRAFFIC SIGNAL.
- 3** INSTALL PEDESTRIAN COUNTDOWN HEAD.
- 4** INSTALL APS.
- 5** INSTALL PBA POST.
- 6** PREPARE COMPLETE 2033 TIMING SHEETS TO ADD AN LPI AND PROGRAM THE EXISTING 2070 CONTROLLER (2033 ICS).
- 7** INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (17 TOTAL).

EXISTING PHASE DIAGRAM



100% PLANS

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DRAWN: BA, DH
CHECKED: AL
DESIGNED: BA, EC
APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BRIDGEWAY / HARBOR DR ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-30.1 |
| | | SHEET NO. | 60 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | |
| | | RUN NUMBER | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| #14 | Ø1 | | 3 | 3 | 3 | 6 | 3 | | |
| | Ø2 | | | | 3 | 3 | | | |
| | Ø4 | | | | 3 | 6 | 3 | 3 | 3 |
| | Ø5 | | 3 | 3 | 3 | 6 | 3 | | |
| | Ø6 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| | Ø8 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| | Ø2P | | | | 2 | 2 | | | |
| | Ø4P | | | | | 2 | 2 | 2 | 2 |
| | Ø6P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| | Ø8P | 2 | 2 | 2 | 2 | 2 | | | |
| | Ø2 APS | | | | 1 | 1 | | | |
| | Ø4 APS | 1 | 1 | 1 | 1 | 1 | | | |
| | Ø6 APS | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | Ø8 APS | 1 | 1 | 1 | 1 | 1 | | | |
| | APS COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| SPARES | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | |
| TOTAL #14 | 17 | 23 | 23 | 32 | 56 | 24 | 18 | 17 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | LUMINAIRES | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 |
| | TOTAL #10 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 |
| VIDEO DETECTION | CABLE | | | | | 1 | 1 | 1 | 1 |
| | | | | | | | | | |
| DLC | Ø1 | | 1 | 1 | 1 | 1 | | | |
| | Ø4 | | | | | 1 | 1 | 1 | 1 |
| | Ø5 | | | | | 1 | 1 | | |
| | Ø8 | | | | 1 | 1 | | | |
| | TOTAL DLC | 0 | 1 | 1 | 2 | 4 | 2 | 1 | 1 |

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|----------------|-----------------|--------------------|-----------------------|-------------------------|------------------------|--------------------|--------------------------------------|-------|---|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (Ø) | ARROW | |
| | | | | | | | | | | |
| (A) | 18-1-70 | 25 | | | MAS | SV-1-T | SP-1-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (B) | 1-B | | | | | TV-1-T | SP-1-T | 4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (C) | 1-B | | | | | TV-1-T SV-1-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | PBA POST (NEW) | | | | | | | 4P | ← | |
| (E) | 17-2-70 | 20 | 12 | 53 | MAS | SV-3-T (NEW) | SP-2-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON NEW & EXISTING BACKPLATES (4) |
| (F) | 19-1-70 | 25 | 12 | 106 | MAS | SV-1-T | SP-2-T | 6P | ← | INSTALL 2" REFLECTIVE TAPE ON NEW & EXISTING BACKPLATES (2) |
| (G) | 1-B | | | | | TV-1-T | | 8P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATE (1) |
| (H) | 1-B | | | | | TV-1-T SV-1-T (NEW) | | | | REPLACE (E) 3S8"L WITH (N) 3S12"L (Ø1). INSTALL 2" REFLECTIVE TAPE ON NEW & EXISTING BACKPLATES (2). |
| (I) | PBA POST (NEW) | | | | | | | 8P | ← | |
| (J) | 24-3-70 | 35 | 12 | UNK HPS | MAS | SV-2-T | SP-2-T | 2P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |

* ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 ** ALL APS SHALL BE NEW

1. CONDUIT SIZE NOT LISTED WHEN AS-BUILT PLANS WERE NOT AVAILABLE.
2. ALL CONDUCTORS ARE ESTIMATED FROM FIELD OBSERVATIONS

100% PLANS



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DRAWN: BA, DH
DESIGNED: BA, EC

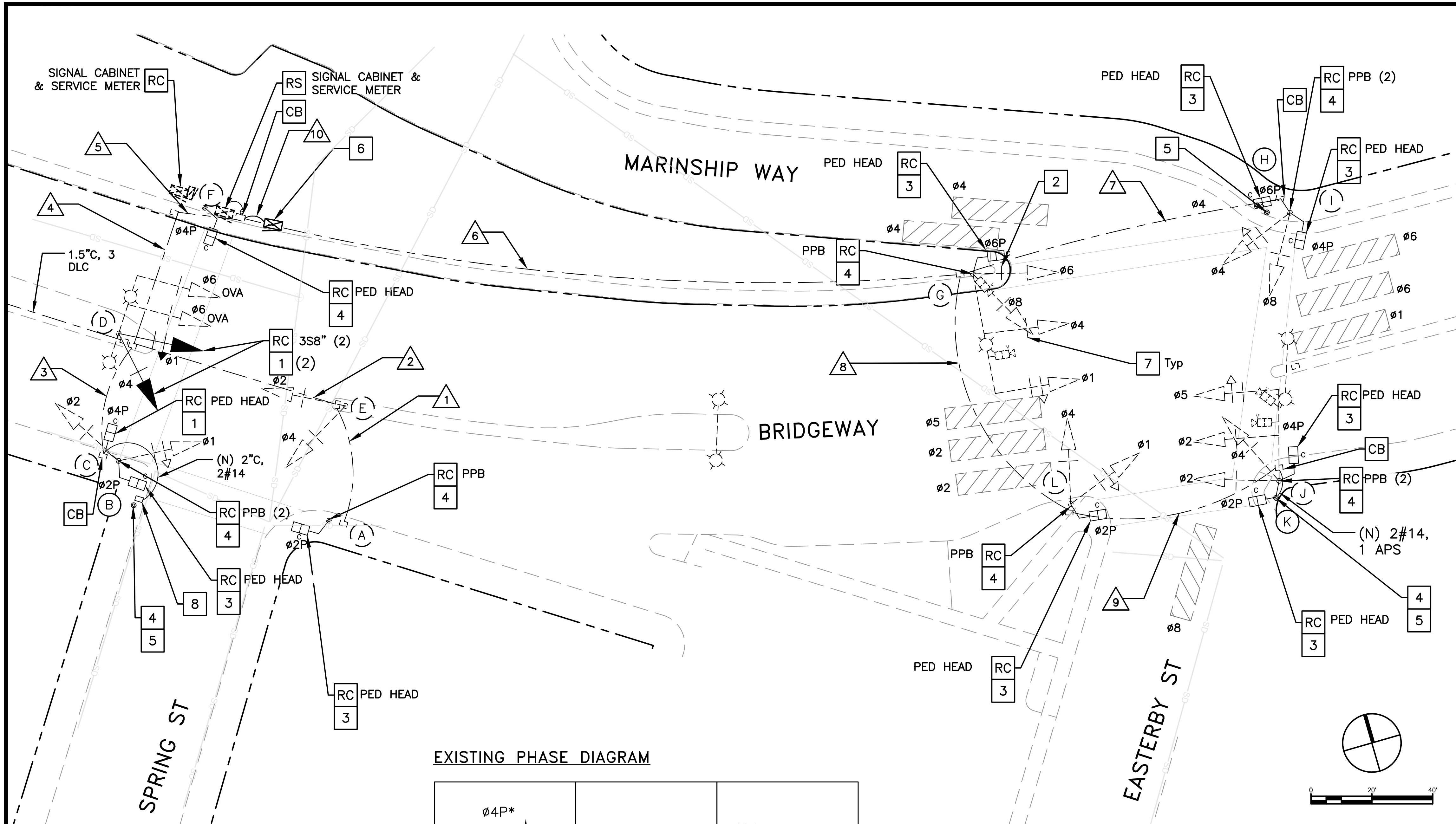
CHECKED: AL
APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 BRIDGEWAY /HARBOR DR ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-30.2 |
| | | SHEET NO. | 61 OF 104 |



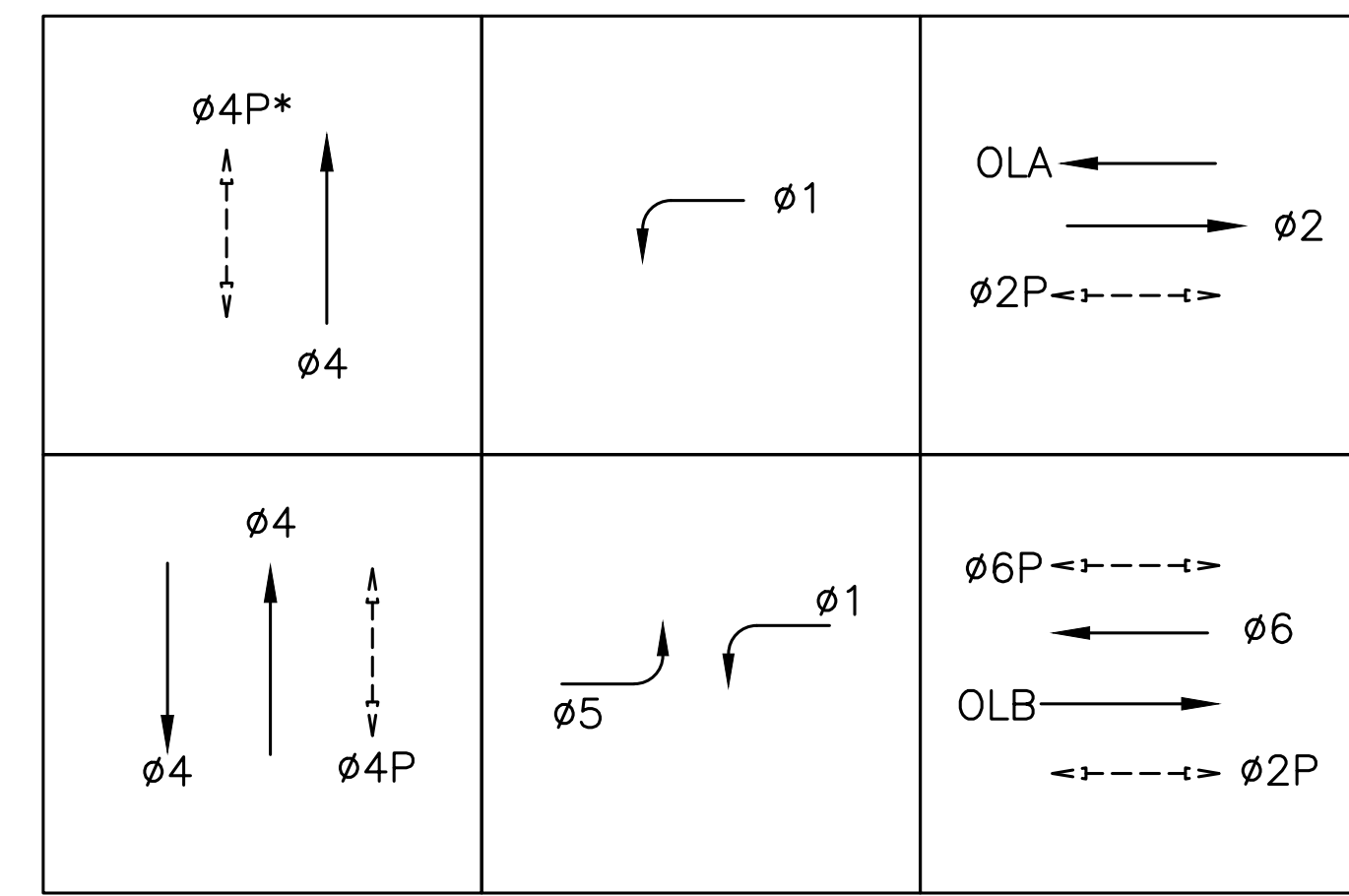
GENERAL NOTES (THIS SHEET ONLY)

1. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
2. LOCATIONS OF NEW POLES AND CABINETS ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS EXCEPT FOR SIGNAL CABINET WORK. R/W SHOWN IS APPROXIMATE.

CONSTRUCTION NOTES (THIS SHEET ONLY)

- [CB] INSTALL CONDUIT INTO EXISTING PULL BOX.
- [RS] REMOVE AND SALVAGE EQUIPMENT.
- [RC] EQUIPMENT TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- [1] INSTALL NEW 3-SECTION 12-INCH SIGNAL HEAD WITH BACKPLATE ON NEW MOUNTING HARDWARE.
- [2] INSTALL NEW BACKPLATE ON EXISTING TRAFFIC SIGNAL.
- [3] INSTALL PEDESTRIAN COUNTDOWN HEAD.
- [4] INSTALL APS.
- [5] INSTALL NEW PBA POST.
- [6] INSTALL NEW TYPE 332 SIGNAL CABINET ON A NEW FOUNDATION, MODEL 2070E CONTROLLER ASSEMBLY WITH 2033 SOFTWARE, COMMUNICATION MODEM, 2010 CONFLICT MONITOR, AND ALL AUXILIARY EQUIPMENT TO CONTROL THE SYSTEM AS SHOWN IN THE PLANS. REUSE THE EXISTING TRAFFIC VIDEO CONTROL UNIT IN THE NEW CABINET. INSTALL A NEW TYPE III-AF SERVICE METER (120/240V) AND CONNECT TO EXISTING SERVICE.
- [7] INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (21 TOTAL).
- [8] INSTALL No. 5 PULL BOX.

EXISTING PHASE DIAGRAM



STEADY DEMAND SEQUENCE \rightarrow
 *LPI - LEADING PEDESTRIAN INTERVAL

100% PLANS

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 Berkeley CA 94704
 (510) 343-6400

DESIGNED: BA, DH
 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF SAUSALITO
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
BRIDGEWAY / MARINSHIP WAY / EASTERBY ST / SPRING ST ELECTRICAL PLAN



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|------------------|
| NO. | DESCRIPTION | 10/01/2021 | AS SHOWN |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-31.1 |
| | | SHEET NO. | 62 OF 104 |



| CONDUCTOR SCHEDULE | | | | | | | | | | | |
|--------------------|---------------|----------------------|----|----|----|----|----|----|----|----|-----|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 | △10 |
| #14 | ∅1 | | 3 | 3 | 3 | 3 | | | | | 3 |
| | ∅2 | | 3 | | 3 | 3 | | | | | 3 |
| | ∅4 | | 3 | | 3 | 3 | | | | | 3 |
| | OLA | | | | 3 | 3 | | | | | 3 |
| | ∅2P | | | 2 | 4 | 4 | | | | | 4 |
| | ∅4P | | | 2 | 2 | 2 | | | | | 2 |
| | ∅2 APS | 1 | 1 | 1 | 2 | 2 | | | | | 2 |
| | ∅4 APS | | | 1 | 1 | 2 | | | | | 2 |
| | SPARES | 3 | 3 | 3 | 3 | 6 | | | | | 6 |
| TOTAL #14 | | 4 | 13 | 12 | 24 | 28 | | | | | 28 |
| #12 | PED COMMON | 1 | 1 | 1 | 1 | 1 | | | | | 1 |
| | ∅1 | | | | | | 3 | | 3 | | 3 |
| | ∅4 | | | | | | 9 | 6 | 3 | 3 | 9 |
| | ∅5 | | | | | | 6 | 3 | 3 | 3 | 6 |
| | ∅6 | | | | | | 3 | | | | 3 |
| | OLB | | | | | | 3 | | 3 | 3 | 3 |
| | ∅2P | | | | | | 2 | | 2 | 2 | 2 |
| | ∅4P | | | | | | 4 | 2 | 2 | 2 | 4 |
| | ∅6P | | | | | | 2 | 2 | | | 2 |
| | SPARES | | | | | | 6 | 3 | 3 | 3 | 6 |
| TOTAL #12 | | 1 | 1 | 1 | 1 | 1 | 38 | 16 | 19 | 16 | 38 |
| VIDEO* | CABLES | | 1 | | 2 | 2 | | | 1 | 1 | |
| #10 | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | | | | | 1 |
| | ∅2 APS | | | | | | 2 | | 2 | 1 | 2 |
| | ∅4 APS | | | | | | 2 | 1 | 1 | 1 | 2 |
| | ∅6 APS | | | | | | 2 | 1 | | | 2 |
| | PED COMMON | | | | | | 2 | 1 | 1 | 1 | 2 |
| TOTAL | | 1 | 1 | 1 | 1 | 1 | 8 | 3 | 4 | 4 | 9 |
| #8 | 120V COMMON | | | | | 2 | 1 | 1 | 1 | | 3 |
| | 240 V COMMON | | | | | 2 | | | | | 2 |
| | TOTAL | | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 1 | 5 |

| CONDUCTOR SCHEDULE | | | | | | | | | | | | |
|--------------------|--------------|----------------------|-----|----|-----|----|----|----|----|----|-----|----------|
| AWG OR CABLE | COND. DESGN. | NUMBER OF CONDUCTORS | | | | | | | | | | |
| | | RUN NUMBER | | | | | | | | | | |
| | | EX | EX | EX | EX | EX | EX | EX | EX | EX | EX | NEW |
| | | △1 | △2 | △3 | △4 | △5 | △6 | △7 | △8 | △9 | △10 | |
| VIDEO* | CABLES | | 1 | | 2 | 2 | 2 | | | 1 | 1 | 4 |
| EVP* | CABLE | | 1 | | 2 | 2 | 2 | | | | | 4 |
| CONDUIT SIZE | | 2 | 1.5 | 1 | 1.5 | 3 | 4 | 3 | 2 | 2 | | 2-3, 1-2 |
| PERCENT FILL | | | | | | | | | | | | |

* VIDEO, EVP & DLC CABLES SHALL RUN UNSPLICED FROM CAMERA/DETECTOR TO NEW CONTROLLER. CONTRACTOR MAY REROUTE EXISTING CABLE TO THE NEW CONTROLLER. IF THE EXISTING CABLE SLACK IS NOT SUFFICIENT TO CONNECT TO THE NEW CONTROLLER, THE CONTRACTOR SHALL FURNISH AND INSTALL NEW VIDEO AND/OR EVP CABLES.

| EQUIPMENT AND POLE SCHEDULE | | | | | | | | | | |
|-----------------------------|-------------------|-----------------|--------------------|-----------------------|-------------------------|--------------|--------------------|--------------------------------------|-------|--|
| LOCATION | STANDARD | | | LED LUMINAIRE WATTAGE | VEHICLE SIGNAL MOUNTING | | PED SIGNAL MOUNT.* | ACCESSIBLE PEDESTRIAN SIGNAL (APS)** | | SPECIAL REQUIREMENTS |
| | TYPE | SIGNAL MAST ARM | LUMINAIRE MAST ARM | | MAST ARM | POLE | | PHASE (∅) | ARROW | |
| (A) | 1-B | | | | | | TP-1-T | 2P | ← | |
| (B) | PBA POST (NEW) | | | | | | | 2P | → | |
| (C) | 1-B | | | | | TV-2-T | SP-2-T | ∅4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |
| (D) | 17-2-70 (SPECIAL) | 20 | 12 12 | 52 52 | MAT MAS | SV-2-T (NEW) | | | | REPLACE (E) 2-3S8" WITH (N) 1-3S12"L (∅1) AND 1-3S12" (∅4). INSTALL 2" REFLECTIVE TAPE ON EXISTING & NEW BACKPLATES (4). |
| (E) | 1-B (TEMP) | | | | | TV-3-T | | | | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (F) | 1-B | | | | | | SP-1-T | ∅4P | ← | |
| (G) | 26A-3-70 | 40 | 15 | 24 | MAS MAS | SV-2-T | SP-1-T | 6P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4) |
| (H) | PBA POST (NEW) | | | | | | | 6P | ← | |
| (I) | 1-B | | | | | TV-3-T | SP-2-T | ∅4P | → | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (3) |
| (J) | 18-2-70 | 30 | | | MAS MAS | SV-2-T | SP-2-T | ∅4P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (4) |
| (K) | PBA POST (NEW) | | | | | | | 2P | → | |
| (L) | 1-B | | | | | TV-2-T | SP-1-T | 2P | ← | INSTALL 2" REFLECTIVE TAPE ON EXISTING BACKPLATES (2) |

* ALL PED SIGNALS SHALL BE NEW COUNTDOWN TYPE
 ** ALL APS SHALL BE NEW

100% PLANS



Parisi
TRANSPORTATION CONSULTING
1936 University Ave, Ste 250
Berkeley CA 94704
(510) 343-6400

DRINK: BA, DH
DESIGNED: BA, EC

CHECKED: AL
APPROVED: DP

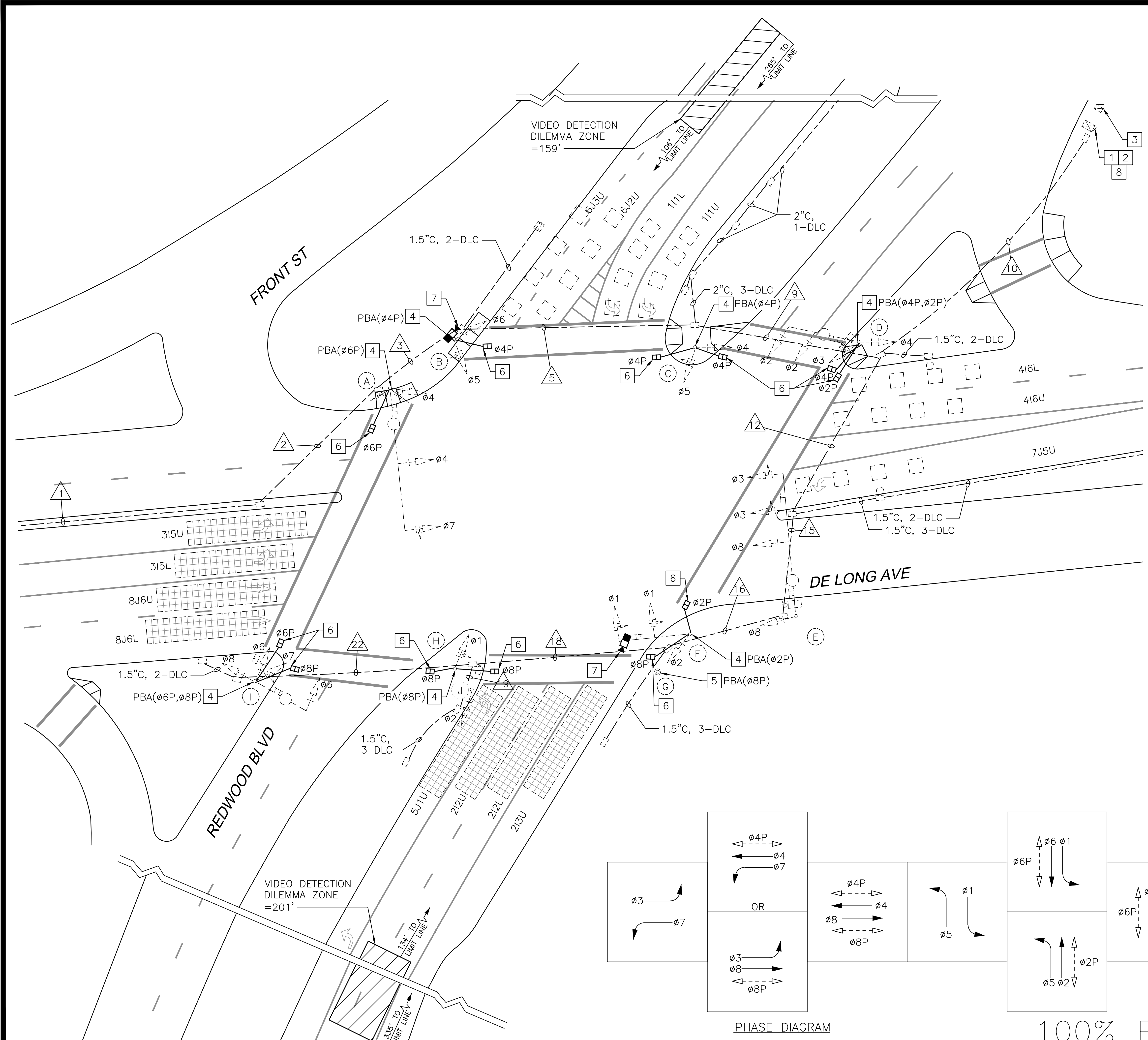


COUNTY OF MARIN - CITY OF SAUSALITO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 BRIDGEWAY / MARINSHIP WAY / EASTERBY ST / SPRING ST ELECTRICAL SCHEDULE



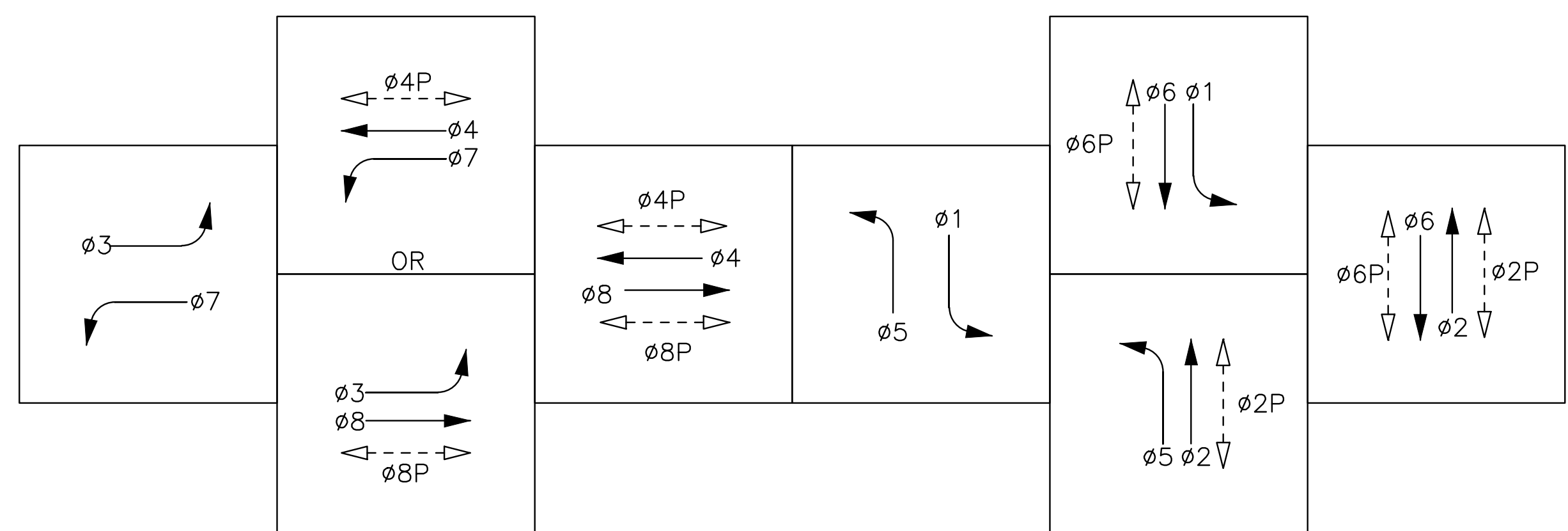
| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-31.2 |
| | | SHEET NO. | 63 OF 104 |

Oct 01, 2021 - 11:53am



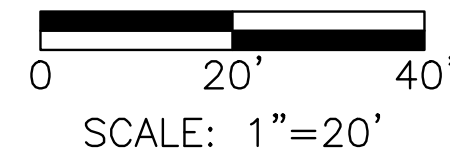
PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET. REMOVE AND DISPOSE OF EXISTING MODEL 170 CONTROLLER UNIT. FURNISH AND INSTALL MODEL 2070 CONTROLLER UNIT WITH MCCAIN OMNI, FOURTH DIMENSION-D4 SOFTWARE OR APPROVED EQUAL. SEE SPECIAL PROVISIONS.
- 2 FURNISH AND INSTALL ADVANCED DILEMMA-ZONE DETECTION SYSTEM INTERFACE. SEE SPECIAL PROVISIONS.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 FURNISH AND INSTALL ADVANCED DILEMMA ZONE DETECTION SENSOR PER MANUFACTURERS SPECIFICATIONS.
- 8 FURNISH AND INSTALL APS CONTROLLER UNIT.



PHASE DIAGRAM

100% PLANS

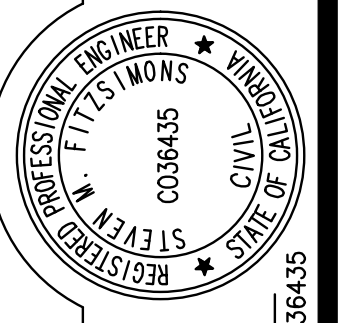


| Date | Revision | By |
|------|----------|----|
| | | |
| | | |
| | | |
| | | |

SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-32.1
 64 OF 104

HSJIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/DE LONG AVE
 TRAFFIC SIGNAL MODIFICATION

DESIGNED BY SF
 CHECKED BY DJW
 DRAWN BY ACJ/KT
 DATE



W-Trans
 490 Mendocino Avenue, Suite 201
 Santa Rosa, CA 95401
 (707) 542-9500 Fax (707) 542-9590



CONDUCTOR TABLE

| AWG | CIRCUIT | RUNS | | | | | | | | | | | | | | | | |
|------------------------|----------------|------|----|----|----|-----|----|----|----|----|-----|----|----|--|--|---|----|---|
| | | 1 | 2 | 3 | 5 | 9 | 10 | 12 | 15 | 16 | 18 | 19 | 22 | | | | | |
| NO. 14 | Ø1 | | | | | | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| | Ø2 | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | |
| | Ø3 | | | | | | 3 | 3 | 3 | | | | | | | | | |
| | Ø4 | | | 3 | 3 | 3 | 3 | | | | | | | | | | | |
| | Ø5 | | | | 3 | 3 | 3 | | | | | | | | | | | |
| | Ø6 | | | | | 3 | 6 | 3 | 3 | 3 | 3 | 3 | | | | | | 3 |
| | Ø7 | | | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | | | | | | 3 |
| | Ø8 | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | 3 |
| | Ø2P | | | | | | 2 | 2 | 2 | 2 | | | | | | | | |
| | Ø4P | | | | 2 | 2 | 2 | | | | | | | | | | | |
| | Ø6P | | | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | | | | | | 2 |
| | Ø8P | | | | | | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | 2 |
| | PBA(Ø2P) | | | | | | 1 | 1 | 1 | 1 | | | | | | | | |
| | PBA(Ø4P) | | | | 1 | 1 | 1 | | | | | | | | | | | |
| | PBA(Ø6P) | | | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 |
| | PBA(Ø8P) | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 |
| | PBA NEUTRAL* | | | 1 | 2 | 2 | 5 | 3 | 3 | 3 | 2 | | | | | | | 2 |
| | SPARES | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | 3 |
| TOTAL No. 14 | | | 13 | 20 | 23 | 53 | 33 | 33 | 30 | 26 | | | | | | | 20 | |
| NO. 8 | LUMINAIRE | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | |
| | 120V NEUTRAL | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | |
| | BONDING GROUND | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | 1 | |
| TOTAL No. 8 | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | | | 3 | |
| RS-232 | RADIO | | 1 | 1 | 1 | 1 | | | | | | | | | | | | |
| | TOTAL | | 1 | 1 | 1 | 1 | | | | | | | | | | | | |
| NO. 12 DLC | 111U/111L | | | | | 2 | | | | | | | | | | | | |
| | 414U/414L | | | | | 2 | 2 | | | | | | | | | | | |
| | 416U/416L | | | | | 2 | | | | | | | | | | | | |
| | 5JIU | | | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| | 6J2U/6J3U | | | | 2 | 2 | 2 | | | | | | | | | | | |
| | 6J2L | | | | | 1 | 1 | | | | | | | | | | | |
| | 7J5U | | | | | 1 | 1 | | | | | | | | | | | |
| TOTAL DLC | # | # | # | 2 | 5 | 11 | 4 | 1 | 1 | 1 | 1 | 1 | | | | # | | |
| CABLE | VIDEO | | | 1 | 1 | 1 | 2 | 1 | 1 | | | | | | | | | |
| | ADZD* | | | 1 | 2 | 2 | 1 | 1 | 1 | | | | | | | | | |
| | YAGI | | | | | 1 | | 1 | 1 | 1 | | | | | | | 1 | |
| | TOTAL | | | 1 | 2 | 3 | 5 | 2 | 3 | 2 | 1 | | | | | | 1 | |
| CONDUIT SIZE (INCHES) | 1.5 | 2 | 2 | 2 | 2 | 2-3 | 2 | 2 | 2 | 2 | 1.5 | 2 | | | | | | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
* = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.

POLE AND EQUIPMENT SCHEDULE

| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
|-----|----------|-----|-----|-------------------|----------------|--------|----------------|-------------|--------|------------|------------|---------------|--------------------------------------|
| | TYPE | SMA | LMA | MAST ARM | | POLE | | Ø | MTG | Ø | ARROW | | |
| | | | | MTG | Ø | MTG | Ø | | | | | | |
| (A) | 29-5-80 | 60 | 15 | MAS MAS | Ø4 Ø7 | SV-1-T | Ø4 | Ø6P | SP-1-T | Ø6P | <-- | 89W | |
| (B) | 1-A | - | - | - | - | TV-2-T | Ø5 Ø6 | Ø4P | SP-1-T | Ø4P | --> | | F&I ADZD SENSOR EXTRA TALL HEIGHT |
| (C) | 1-A | - | - | - | - | TV-1-T | Ø5 | Ø4P | SP-2-T | Ø4P | <--> | | |
| (D) | 19-4-80 | 30' | 12' | MAS MAS | Ø2 Ø2 | SV-2-T | Ø3 Ø4 | Ø2P Ø4P | SP-2-T | Ø2P Ø4P | <-- <-- | 89W | |
| (E) | 29-5-129 | 60' | 15' | MAS MAS MAS | Ø3 Ø3 Ø8 | SV-1-T | Ø8 | - | - | - | - | 89W | |
| (F) | 18-3-129 | 30' | - | MAS MAS | Ø1 Ø1 | SV-1-T | Ø2 | Ø2P Ø8P | SP-2-T | Ø2P | <-- | | F&I ADZD SENSOR |
| (G) | PPB POST | - | - | - | - | - | - | - | - | Ø8P | --> | | |
| (H) | 1-A | - | - | - | - | SV-1-T | Ø1 | Ø8P | SP-2-T | Ø8P | <--> | | |
| (I) | 16-1-70 | 25' | 12' | MAS | Ø6 | SV-3-T | Ø6 Ø7 Ø8 | Ø6P Ø8P | AP-2-T | Ø6P Ø8P | --> <-- | 93W | |
| (J) | 1-A | - | - | - | - | TV-1-T | Ø2 | - | - | - | - | | EXTRA TALL HEIGHT |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
* = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

Oct 01, 2021 11:53am

100% PLANS



| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-32.2 |
| | | | 65 OF 104 |

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 Santa Rosa, CA 95401
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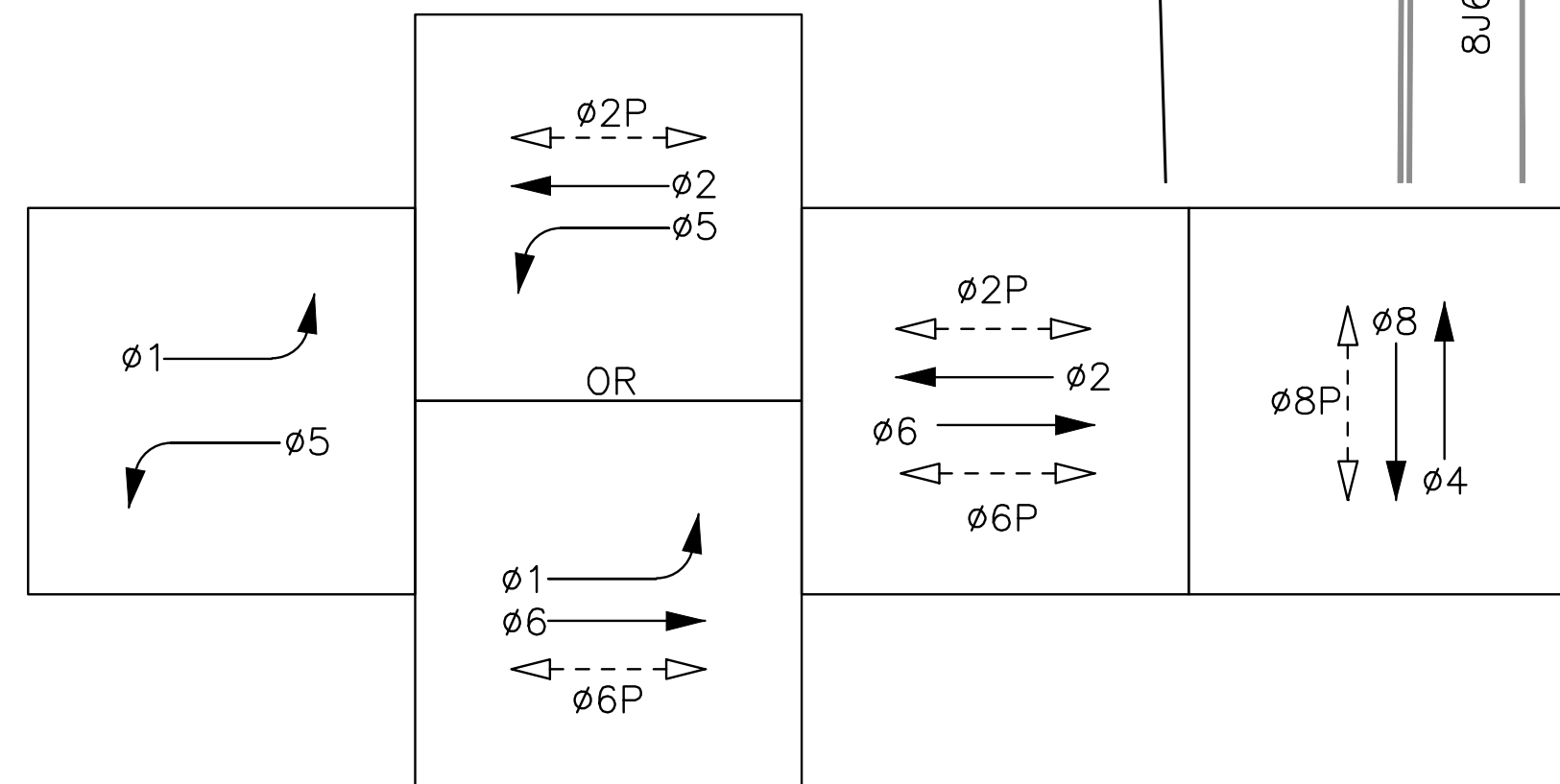
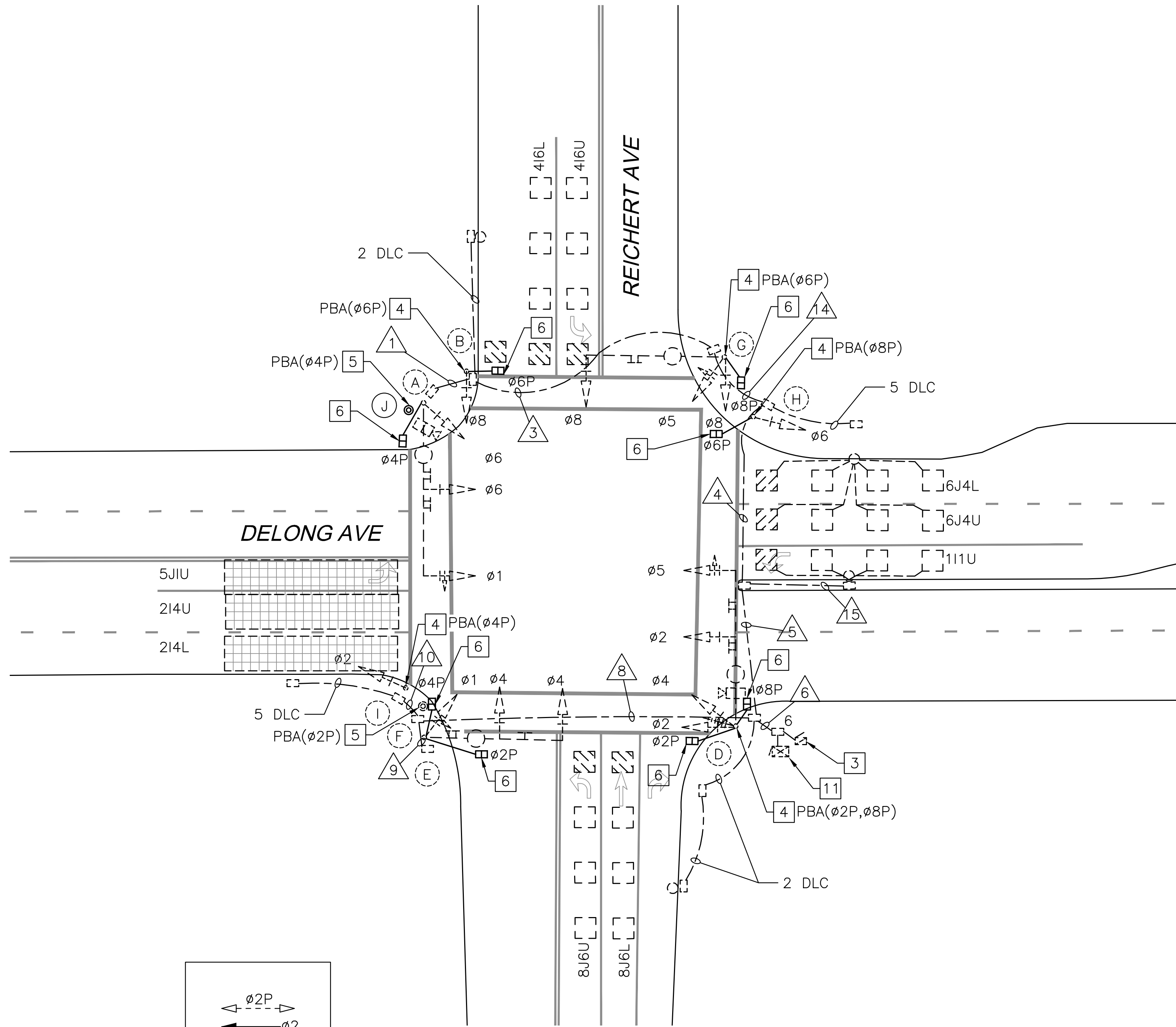
W-Trans
 PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 008435
 CIVIL
 STATE OF CALIFORNIA

DESIGNED BY SF
 CHECKED BY DJW
 DRAWN BY ACJ/KT
 DATE

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/DE LONG AVE
 ELECTRICAL SCHEDULES

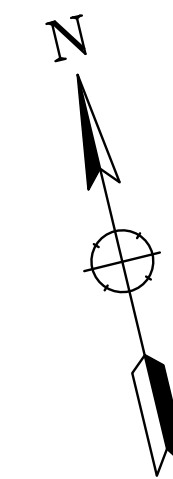
Oct 01, 2021 11:53am



PHASE DIAGRAM

PROJECT NOTES (THIS SHEET ONLY)

- 1 NOT USED.
- 2 NOT USED.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (GSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 NOT USED.
- 9 NOT USED.
- 10 NOT USED.
- 11 EXISTING 170E CONTROLLER ASSEMBLY IN 332 CABINET TO REMAIN. FURNISH AND INSTALL APS CONTROLLER.



0 20' 40'
SCALE: 1"=20'

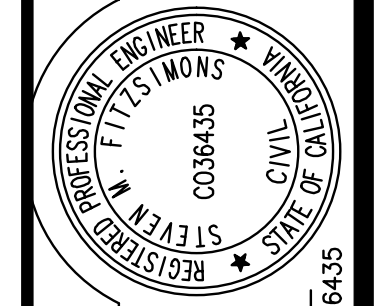
100% PLANS

| Date | Revision | By |
|------|----------|----|
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SCALE 1"=20'
DATE 10/1/21
JOB NO. MAX132
DRAWING NUMBER E-33.1
66 OF 104

HSIP COUNTYWIDE
TRAFFIC SIGNAL IMPROVEMENT PROJECT
COUNTY OF MARIN - CITY OF NOVATO
DE LONG AVE/REICHERT AVE
TRAFFIC SIGNAL MODIFICATION

DESIGNED BY SF
CHECKED BY DJW



DRAWN BY ACJ/KT
DATE

STEVEN M. FITZSIMONS, R.C.E. NO. 36435



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490 Mendocino Avenue, Suite 201
Santa Rosa, CA 95401
(707) 542-9500 Fax (707) 542-9590

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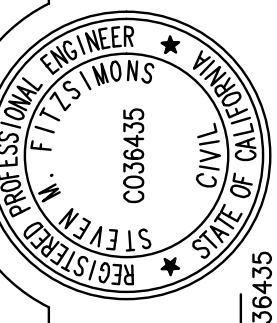
| CONDUCTOR TABLE | | | | | | | | | | | |
|---------------------------------|--------------------------|------|----|----|------|------|----|----|----|----|--|
| AWG | CIRCUIT | RUNS | | | | | | | | | |
| | | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 14 | |
| NO. 14 | Ø1 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | | 3 | |
| | Ø2 | | | | | 3 | 3 | | 3 | | |
| | Ø4 | | | | | 3 | 3 | 3 | | | |
| | Ø5 | | | 3 | 3 | 3 | | | | 3 | |
| | Ø6 | 3 | 3 | 3 | 3 | 3 | | | | 3 | |
| | Ø8 | | 3 | 3 | 3 | 3 | | | | 3 | |
| | Ø2P | | | | | 2 | 2 | 2 | | | |
| | Ø4P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | | 2 | |
| | Ø6P | | 2 | 2 | 2 | 2 | | | | | |
| | Ø8P | | | 2 | 2 | 2 | | | | 2 | |
| | PBA(Ø2P) | | | | | 1 | 1 | 1 | | | |
| | PBA(Ø4P) | 1 | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | |
| | PBA(Ø6P) | | 1 | 1 | 1 | 1 | | | | 1 | |
| | PBA(Ø8P) | | | 1 | 1 | 1 | | | | | |
| | PBA COMMON* | 1 | 2 | 3 | 3 | 5 | 2 | 1 | 1 | 2 | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| TOTAL No. 14 | 13 | 20 | 27 | 27 | 44 | 20 | 15 | 8 | 23 | | |
| LUMINAIRE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | 2 | | |
| 120V NEUTRAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | |
| SERVICE BONDING GROUND | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | | |
| TOTAL No. 8 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 0 | 4 | | |
| NO. 12 DLC | 5J1U/214U/214L/213U/213L | | | | | 5 | 5 | | 5 | | |
| | 416L/416U | | 2 | 2 | 2 | | | | 2 | | |
| | 6J4L/6J4U/6J3U/6J3L/111U | | | 4 | 5 | 5 | | | 4 | | |
| | 8J6L/8J6U | | | | | 2 | | | | | |
| TOTAL DLC | | 2 | 6 | 7 | 14 | | # | | 6 | | |
| RADIO | | | | | 1 | | | | | | |
| TOTAL | # | # | # | # | 1 | | | | | | |
| CONDUIT NEW (N) OR EXISTING (E) | E | E | E | E | E | E | E | E | E | | |
| CONDUIT SIZE (INCHES) | 2" | 2" | 3" | 3" | 2-2" | 2-2" | 2" | 2" | 3" | | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|---------------|-----|-----|----------------|-------|-----------------|-------|-------------|--------|---------|-----------|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | SIGNAL POLE MTG | Ø | Ø | Ø | ARROW | | | |
| (A) | 26-4-80 | 40 | 12 | MAS MAS | Ø1 Ø6 | SV-1-T | Ø6 | Ø4P | SP-1-T | - | - | 68W | |
| (B) | 1-A 8' HEIGHT | - | - | - | - | TV-1-T | Ø8 | Ø6P | SP-1-T | Ø6P | --> | | |
| (D) | 26-4-80 | 45' | 12' | MAS MAS | Ø2 Ø5 | SV-2-TA | Ø2 Ø4 | Ø2P Ø8P | SP-2-T | Ø2P Ø8P | <--<--<-- | 68W | |
| (E) | 26-4-80 | 40' | 12' | MAS MAS | Ø4 | SV-1-T | Ø1 | Ø2P Ø4P | SP-2-T | - | - | 68W | |
| (F) | PPB POST | - | - | - | - | - | - | - | - | Ø2P | <--<-- | | |
| (G) | 26-4-100 | 40' | 12' | MAS | Ø8 | SV-1-T | Ø5 Ø8 | Ø8P | SP-1-T | Ø6P | <--<-- | 68W | |
| (H) | 1-A | - | - | - | - | TV-1-T | Ø6 | Ø6P | SP-1-T | Ø8P | --> | | |
| (I) | 1-A | - | - | - | - | TV-1-T | - | - | - | Ø4P | --> | | |
| (J) | PPB POST | - | - | - | - | - | - | - | - | Ø4P | <--<-- | | NEW EQUIPMENT |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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 Santa Rosa, CA 95401
 (707) 542-9500 Fax (707) 542-9590



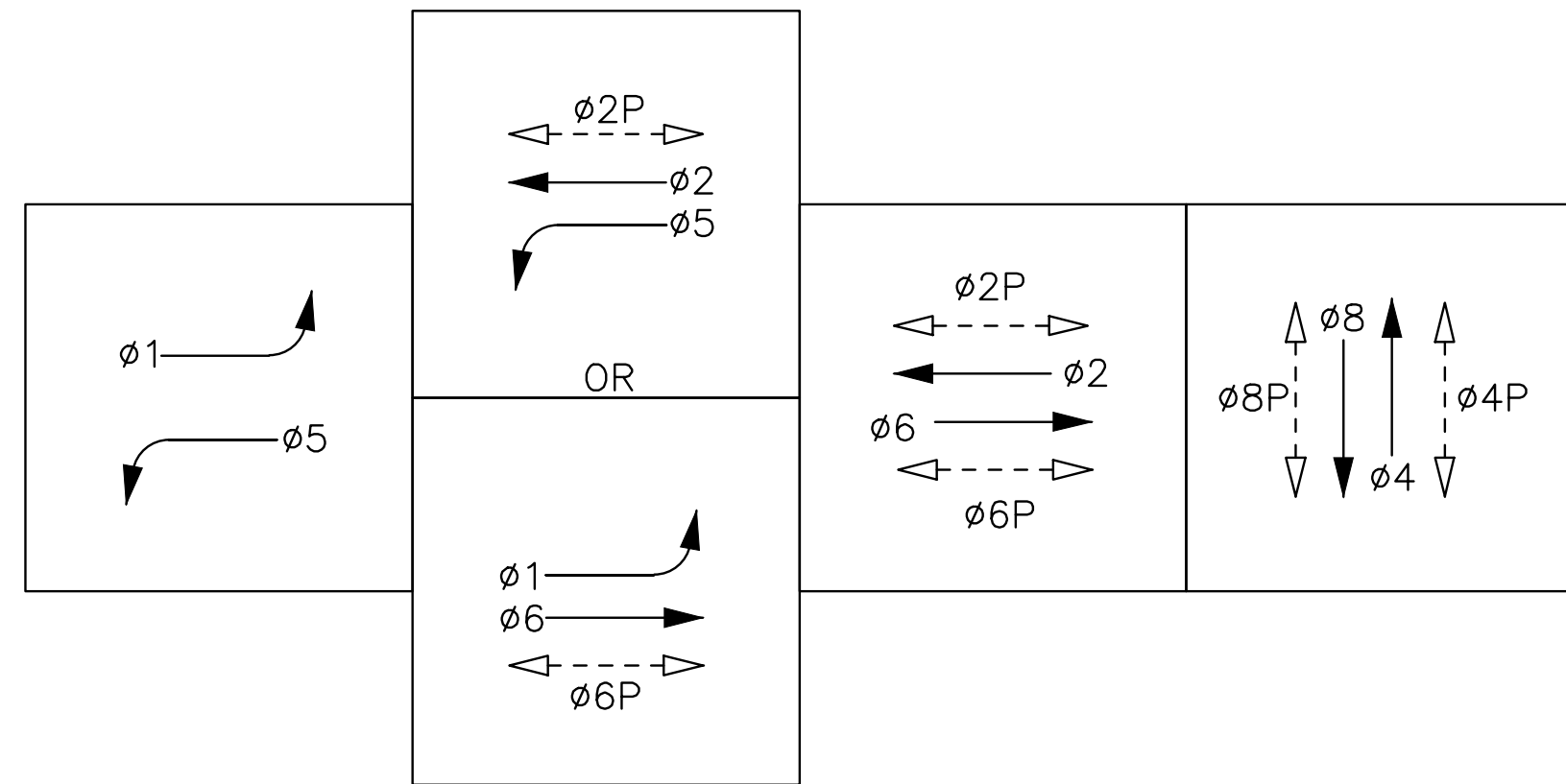
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 DATE

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

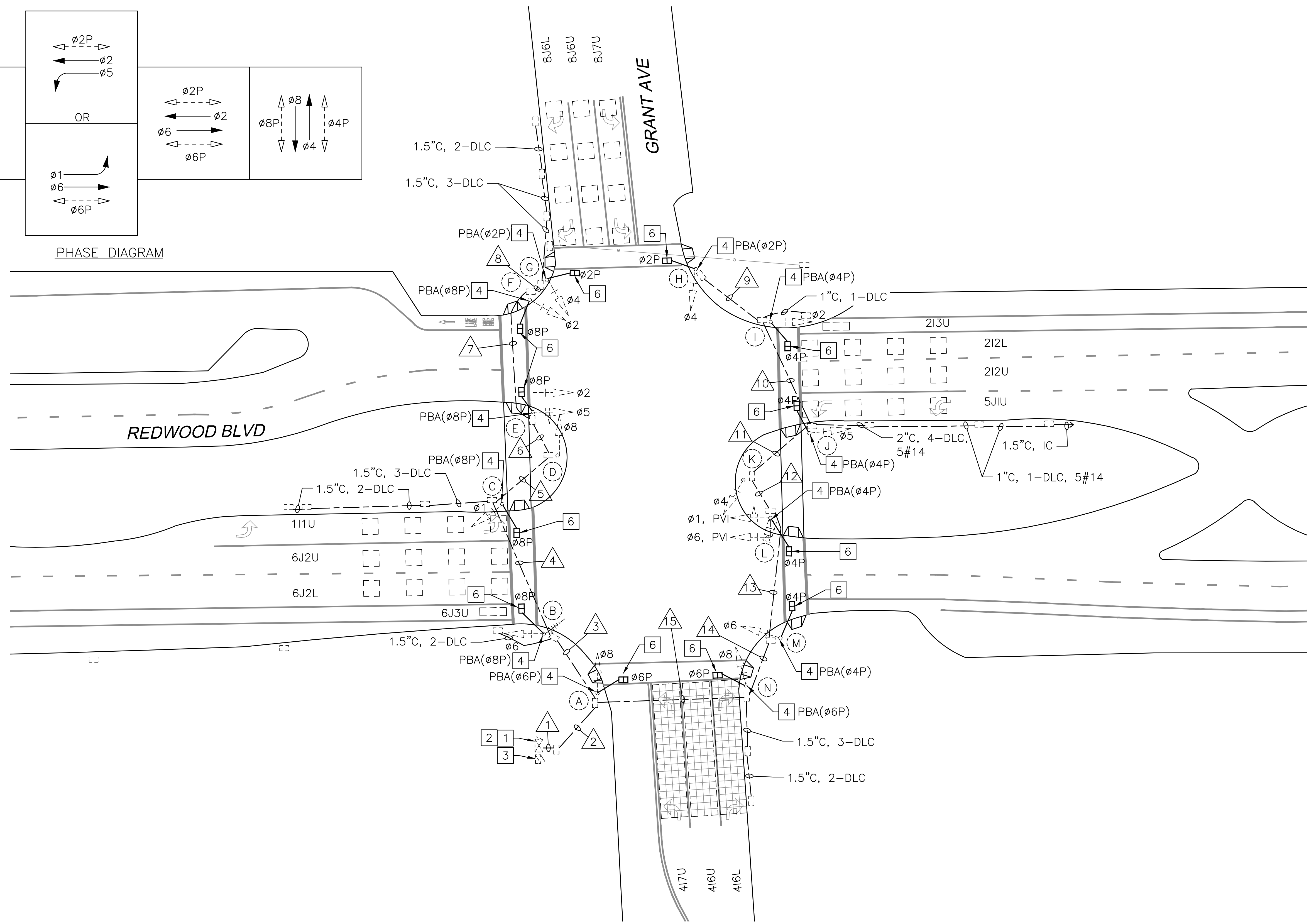
HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 DE LONG AVE/REICHERT AVE
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-33.2 |
| | | | 67 OF 104 |

100% PLANS

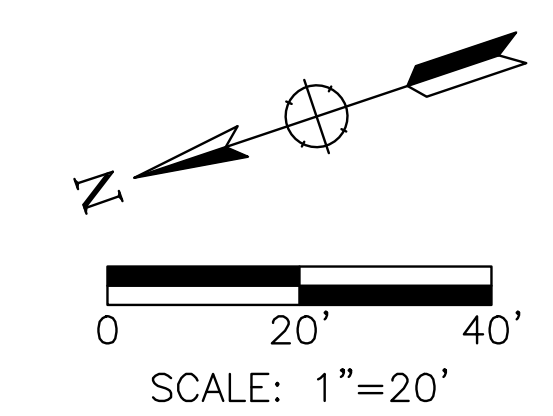


PHASE DIAGRAM



PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 FURNISH AND INSTALL APS CONTROL UNIT.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 NOT USED.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 NOT USED.
- 9 NOT USED.
- 10 NOT USED.



100% PLANS

| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-34.1 |
| | | | 68 OF 104 |

Oct 01, 2021 - 11:53am

DESIGNED BY
SF

CHECKED BY
DJW

DRAWN BY
ACJ/KT

DATE

HSIP COUNTYWIDE
TRAFFIC SIGNAL IMPROVEMENT PROJECT
COUNTY OF MARIN - CITY OF NOVATO

REDWOOD BLVD/GRANT AVE
TRAFFIC SIGNAL MODIFICATION

W-Trans
490 Mendocino Avenue, Suite 201
Santa Rosa, CA 95401
(707) 542-9500 Fax (707) 542-9590

CONDUCTOR TABLE

| AWG | CIRCUIT | RUNS | | | | | | | | | | | | | | |
|------------------------|----------------|-------|------|-------|----|------|------|----|----|------|----|------|------|----|----|----|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| NO. 14 | Ø1 | 6 | 6 | 3 | 3 | | | | | | | | 3 | 3 | 3 | |
| | Ø2 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | | | | 3 | 3 | 3 | 3 | |
| | Ø4 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | 3 | 3 | 3 | 3 | |
| | Ø5 | 6 | 6 | 3 | 3 | 3 | 3 | | | | | 3 | 3 | 3 | 3 | |
| | Ø6 | 6 | 6 | 3 | | | | | | | | | 3 | 3 | 3 | |
| | Ø8 | 6 | 6 | 3 | 3 | 3 | | | | | | | | | 3 | |
| | Ø2P | 4 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Ø4P | 4 | 4 | | | | | | | | 2 | 2 | 2 | 4 | 4 | 4 |
| | Ø6P | 2 | 2 | | | | | | | | | | | | | 2 |
| | Ø8P | 4 | 4 | 4 | 4 | 2 | 2 | 2 | | | | | | | | |
| | PBA(Ø2P) | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | PBA(Ø4P) | 1 | 1 | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| | PBA(Ø4P) | 1 | 1 | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| | PBA(Ø6P) | 1 | 1 | | | | | | | | | | | | | 1 |
| | PBA(Ø8P) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | |
| | PBA(Ø8P) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | | | |
| | PPB NEUTRAL* | 7 | 7 | 3 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 4 |
| | PEU | 2 | 2 | 2 | | | | | | | | | | | | |
| | EMTRAC | 2 | | | | | | | | | | | | | | |
| | SPARES | 11 | 11 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 7 | 7 | 8 | 8 | 8 |
| TOTAL No. 14 | 79 | 77 | 35 | 30 | 24 | 21 | 17 | 10 | 10 | 17 | 26 | 26 | 35 | 35 | 42 | |
| NO. 8 | LUMINAIRE | 2 | 2 | 2 | 2 | 2 | | | | | | | | | | |
| | SIGNAL NEUTRAL | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | TOTAL No. 8 | 4 | 4 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| DLC | 111U | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| | 213U | 1 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | |
| | 213L BIKE | 1 | 1 | | | | | | | | 1 | 1 | 1 | 1 | 1 | |
| | 212L | 1 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | |
| | 212U | 1 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | |
| | 417U | 1 | 1 | | | | | | | | | | | | 1 | |
| | 416U | 1 | 1 | | | | | | | | | | | | 1 | |
| | 416L | 1 | 1 | | | | | | | | | | | | 1 | |
| | 5J1U | 1 | 1 | | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | 6J3U | 1 | 1 | 1 | | | | | | | | | | | | |
| | 6J3L BIKE | 1 | 1 | 1 | | | | | | | | | | | | |
| | 6J2L | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| | 6J2U | 1 | 1 | 1 | 1 | | | | | | | | | | | |
| | 8J7U | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| | 8J6U | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| | 8J6L | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |
| TOTAL DLC | 16 | 16 | 8 | 6 | 3 | 3 | 3 | 3 | 0 | 1 | 5 | 5 | 5 | 5 | 8 | |
| COAX | RADIO ANTENNA | 1 | 1 | 1 | | | | | | | | | | | | |
| | PREEMPTION | 1 | 1 | 1 | | | | | | | | | | | | |
| | VIDEO | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | |
| | TOTAL | 3 | 3 | 3 | 1 | 1 | 1 | | | | | | 1 | 1 | 1 | |
| CONDUIT SIZE (INCHES) | | 2-3.5 | 2-3" | 2-2.5 | 3" | 2.5" | 2.5" | 2" | 2" | 1.5" | 2" | 2.5" | 2.5" | 3" | 3" | 3" |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT,

POLE AND EQUIPMENT SCHEDULE

| No. | STANDARD | | | VEHICLE SIGNAL | | POLE | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
|-----|-----------------|-----|-----|----------------|-------|---------------|-------|-------------|--------|------|-------|---------------|----------------------|
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | MTG | Ø | ARROW | | |
| (A) | TYPE 1-A | - | - | - | - | SV-1-T | Ø8 | Ø6P | SP-1 | Ø6P | <-- | | 18' Pole Height |
| (B) | TYPE 15 SPECIAL | | | | | SV-1 | Ø6 | Ø8P | SP-1-T | Ø8P | <-- | 250W | 30' Pole Height |
| (C) | TYPE 1-A | - | - | - | - | SV-1 | Ø1 | Ø8P | SP-1-T | Ø8P | <-- | | 9' Pole Height |
| (D) | TYPE 1-A | - | - | - | - | SV-1-T | Ø8 | - | - | - | - | | 18' Pole Height |
| (E) | CUSTOM | | | | | SV-1 SV (MOD) | Ø5 Ø2 | Ø8P | SP-1-T | Ø8P | <-- | 250W | 30' Pole Height |
| (F) | TYPE 1-A | - | - | - | - | SV-1 | Ø2 | Ø8P | SP-1 | Ø8P | --> | | 18' Pole Height |
| (G) | TYPE 1-A | - | - | - | - | SV-1 | Ø4 | Ø2P | SP-1 | Ø2P | <-- | | 18' Pole Height |
| (H) | TYPE 1-A | - | - | - | - | SV-1 | Ø4 | Ø2P | SP-1 | Ø2P | --> | | 18' Pole Height |
| (I) | CUSTOM | | | | | SV-1 | Ø2 | Ø4P | SP-1 | Ø4P | <-- | 250W | 30' Pole Height |
| (J) | TYPE 1-A | - | - | - | - | SV-1 | Ø5 | Ø4P | SP-1-T | Ø4P | <-- | | 9' Pole Height |
| (K) | TYPE 1-A | - | - | - | - | SV-1-T | Ø4 | - | - | - | - | | 18' Pole Height |
| (L) | CUSTOM | | | | | SV-1 SV (MOD) | Ø1 Ø6 | Ø4P | SP-1-T | Ø4P | <-- | 250W | 30' Pole Height |
| (M) | TYPE 1-A | - | - | - | - | SV-1-T | Ø6 | Ø4P | SP-1 | Ø4P | --> | | 18' Pole Height |
| (N) | TYPE 1-A | - | - | - | - | SV-1 | Ø8 | Ø6P | SP-1 | Ø6P | --> | | 18' Pole Height |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED.
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

Oct 01, 2021 - 11:53am

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 490 Mendocino Avenue, Suite 201
 Santa Rosa, CA 95401
 (707) 542-9500 Fax (707) 542-9590

DESIGNED BY SF
 CHECKED BY DJW
 DRAWN BY ACJ/KT
 DATE

REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL
 008435
 STATE OF CALIFORNIA

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

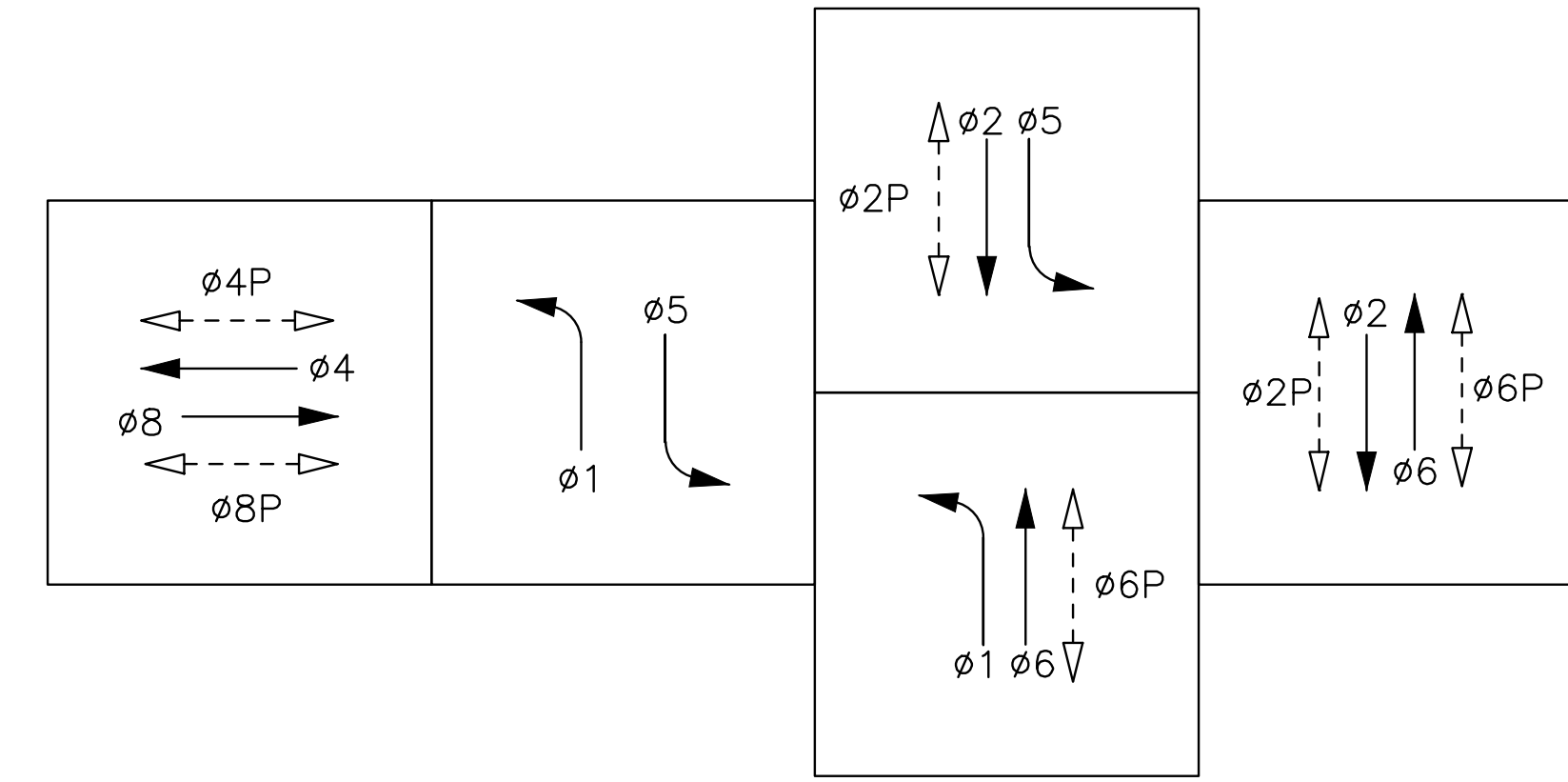
HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/GRANT AVE
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-34.2 |
| | | | 69 OF 104 |

100% PLANS

Oct 01, 2021 11:53am

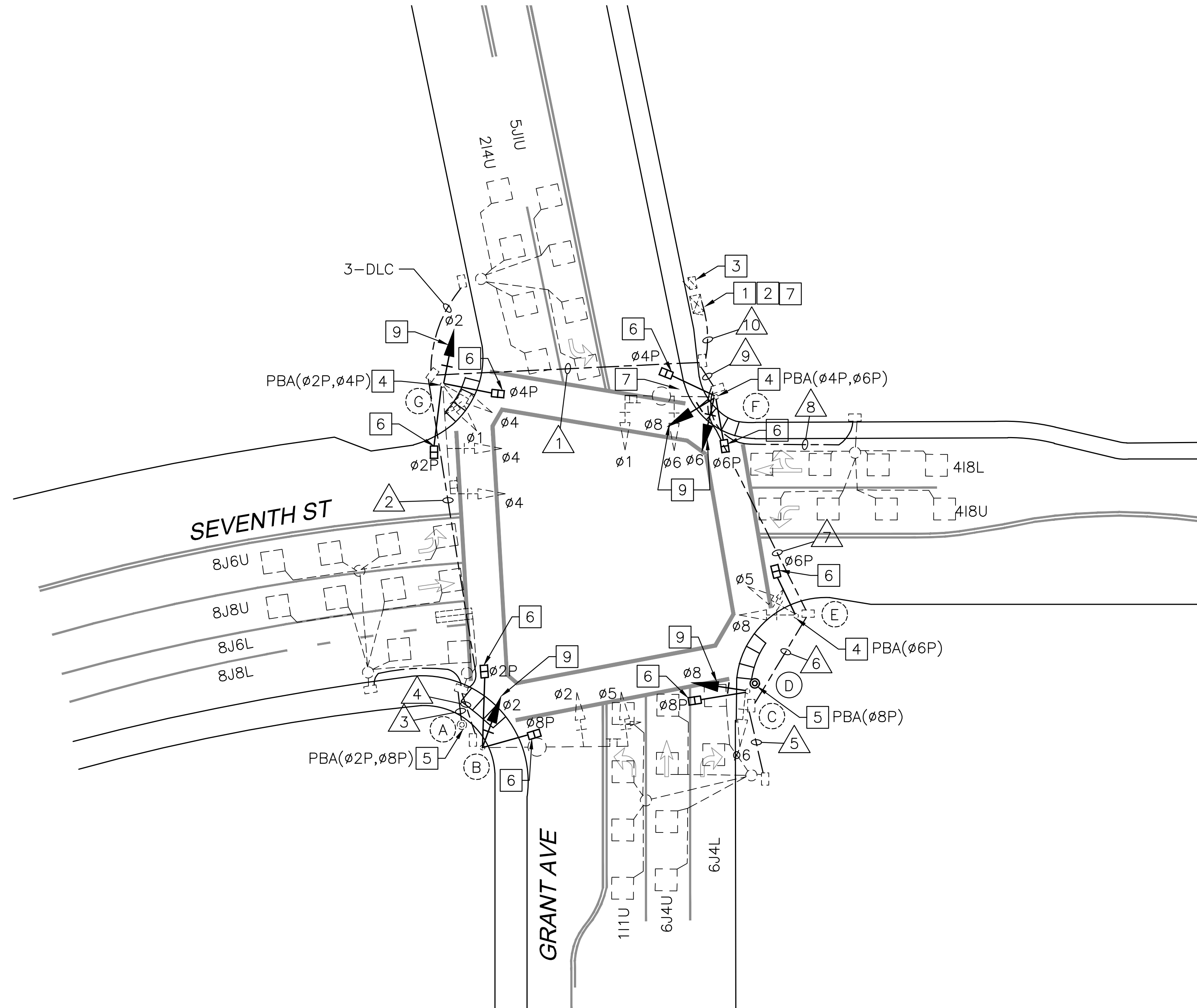
PROJECT NOTES (THIS SHEET ONLY)



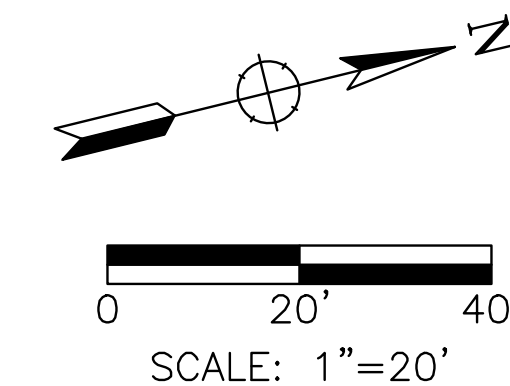
PHASE DIAGRAM

PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 SOFTWARE TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD 7 SECONDS OF LPI. PROGRAM THE NEW TIMING IN THE MODIFIED CONTROLLER.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 FURNISH AND INSTALL APS CONTROL UNIT.
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS. ALL BACKPLATES SHALL BE FURNISHED WITH 2" REFLECTIVE YELLOW BORDERS.
- 10 NOT USED.



100% PLANS



| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
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| | | | JOB NO. |
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| | | | 70 OF 104 |

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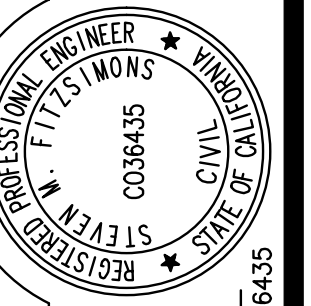


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SF

CHECKED BY
DJW

HSIP COUNTYWIDE
TRAFFIC SIGNAL IMPROVEMENT PROJECT
COUNTY OF MARIN - CITY OF NOVATO
SEVENTH ST/GRANT AVE
TRAFFIC SIGNAL MODIFICATION



DATE

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | | | | | |
|------------------------|---------------------|------|---|----|---|----|----|---|----|-----|----|
| AWG | CIRCUIT | RUNS | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| NO. 14 | Ø1 | 3 | | | | | | | | 3 | 6 |
| | Ø2 | 3 | 3 | | 3 | | | | | | 3 |
| | Ø4 | 3 | | | | | | | | | 3 |
| | Ø5 | 3 | 3 | | 3 | | | 3 | | 3 | 6 |
| | Ø6 | | | | | | 3 | 3 | | 3 | 3 |
| | Ø8 | | | | | | 3 | 3 | | 3 | 3 |
| | Ø2P | 2 | 2 | | 2 | | | | | | 2 |
| | Ø4P | 2 | | | | | | | | 2 | 4 |
| | Ø6P | | | | | | 2 | | | 2 | 2 |
| | Ø8P | 2 | 2 | | 2 | | 2 | 2 | | 2 | 4 |
| | PBA(Ø2P) | 1 | 1 | 1 | | | | | | | 1 |
| | PBA(Ø4P) | 1 | | | | | | | | 1 | 2 |
| | PBA(Ø6P) | | | | | | | 1 | | 1 | 1 |
| | PBA(Ø8P) | 1 | 1 | 1 | | | 1 | 1 | | 1 | 2 |
| | PBA NEUTRAL* | 3 | 2 | 2 | | | 1 | 2 | | 3 | 6 |
| SPARES | 6 | 6 | 1 | 5 | | 3 | 6 | | 6 | 12 | |
| TOTAL No. 14 | 30 | 20 | 5 | 15 | | 13 | 23 | | 30 | 60 | |
| NO. 8 | LUMINAIRE | 2 | 2 | | 2 | | | | 2 | 4 | |
| | 120V NEUTRAL | 1 | 1 | | 1 | | 1 | | 1 | 2 | |
| | BONDING GROUND | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | |
| | TOTAL No. 8 | 4 | 4 | 1 | 4 | | 2 | 2 | | 4 | 8 |
| NO. 12 DLC | 6J2L/6J4L/6J4U | | | | | 3 | 3 | 3 | 3 | 3 | |
| | 111U | | | | | 1 | 1 | 1 | | 1 | 1 |
| | 418L/418U | | | | | | | | 2 | 2 | 2 |
| | 212L/214U | 2 | | | | | | | | | 2 |
| | 5J1U | 1 | | | | | | | | | 1 |
| | 8J6U/8J6L/8J8U/8J8L | 4 | 4 | | | | | | | | 4 |
| | TOTAL DLC | 7 | 4 | | | 4 | 4 | 4 | 2 | 6 | 13 |
| CONDUIT SIZE (INCHES) | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 2-3 | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT

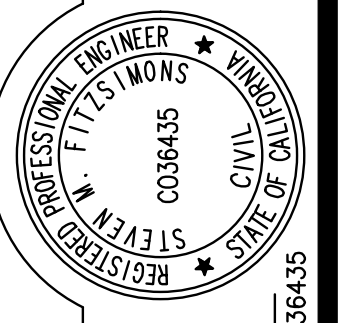
| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|-------------------|-----|-----|----------------|----------|----------|-----------------|-------------|--------|------------|------------|---------------|---------------------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST ARM | POLE | | Ø | MTG | Ø | ARROW | | | |
| | | | | MTG | Ø | MTG | Ø | | | | | | |
| (A) | PPB POST | - | - | - | - | - | - | - | - | Ø2P Ø8P | --> <-- | | |
| (B) | 26-3-70 | 40' | 15' | MAS MAT | Ø2 Ø5 | SV-1-T | Ø2* | Ø2P Ø8P | SP-2-T | - | - | 200W | MAST ARM SIGNALS 12' APART |
| (C) | TYPE 1-A 14'0" | - | - | - | - | SV-2-TA | Ø6 Ø8* | Ø8P | SP-1-T | - | - | | |
| (D) | PPB POST | - | - | - | - | - | - | - | - | Ø8P | --> | | |
| (E) | TYPE 1-A 14'0" | - | - | - | - | SV-2-TA | Ø5 Ø8 | Ø6P | SP-1-T | Ø6P | <-- | | |
| (F) | 19-3-70 | 25' | 15' | MAS MAT | Ø6 Ø1 | SV-2-TA* | Ø6* Ø8* | Ø6P Ø4P | SP-2-T | Ø6P Ø4P | <-- --> | 200W | PEU, MAST ARM SIGNALS 12' APART |
| (G) | 18-3-70 | 30' | - | - | - | SV-3-T | Ø1 Ø2* Ø4 | Ø2P Ø4P | SP-2-T | Ø2P Ø4P | <-- --> | | MAST ARM SIGNALS 12' APART |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
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DJW

DATE

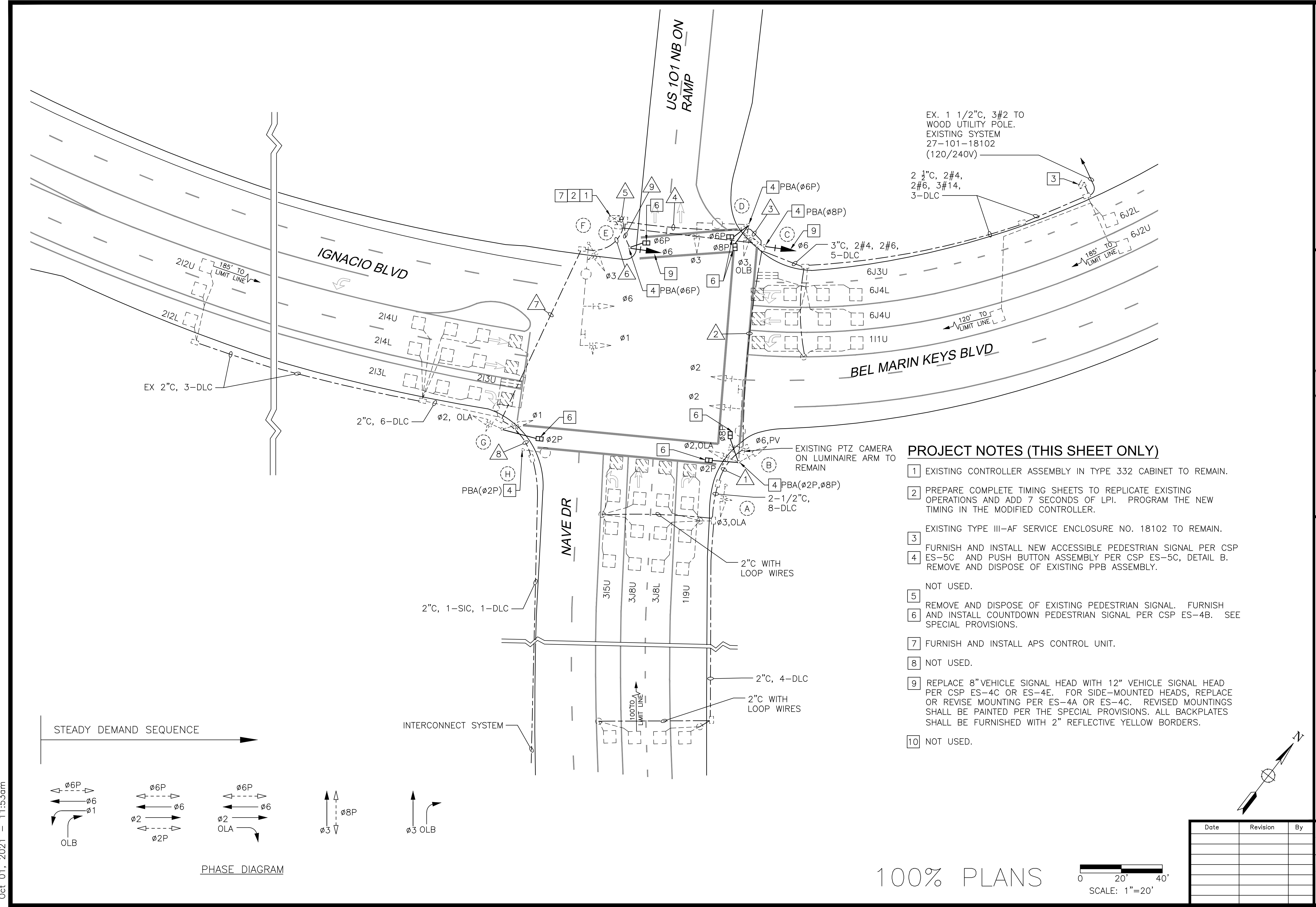
STEVEN M. FITZSIMONS, R.C.E. NO. 36435

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 SEVENTH ST/GRANT AVE
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
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| | | | 1"=20' |
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| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-35.2 |
| | | | 71 OF 104 |

100% PLANS

Oct 01, 2021 11:53am



EX. 1 1/2" C, 3#2 TO WOOD UTILITY POLE. EXISTING SYSTEM 27-101-18102 (120/240V)

2 1/2" C, 2#4, 2#6, 3#14, 3-DLC

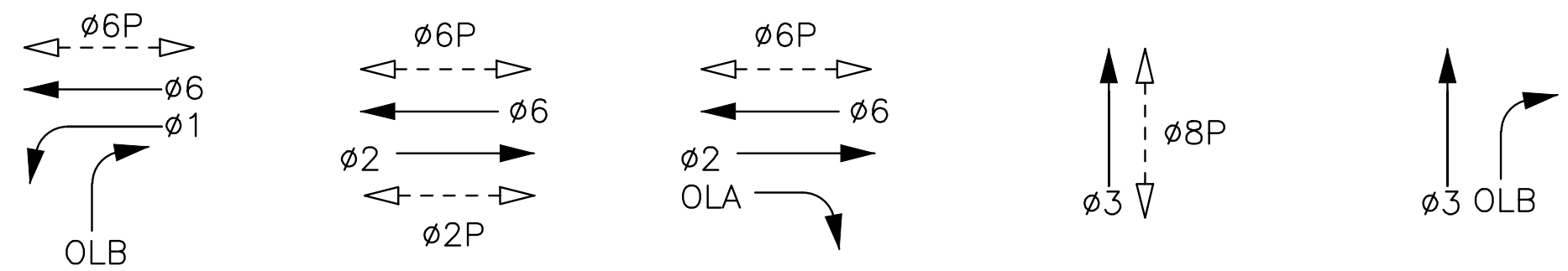
3" C, 2#4, 2#6, 5-DLC

EXISTING PTZ CAMERA ON LUMINAIRE ARM TO REMAIN

PROJECT NOTES (THIS SHEET ONLY)

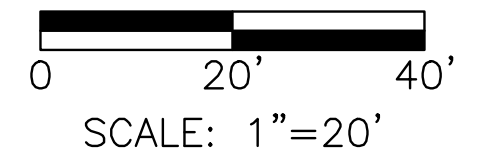
- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET TO REMAIN.
- 2 PREPARE COMPLETE TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD 7 SECONDS OF LPI. PROGRAM THE NEW TIMING IN THE MODIFIED CONTROLLER.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE NO. 18102 TO REMAIN.
- 4 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY PER CSP ES-5C, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB ASSEMBLY.
- 5 NOT USED.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 FURNISH AND INSTALL APS CONTROL UNIT.
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS. ALL BACKPLATES SHALL BE FURNISHED WITH 2" REFLECTIVE YELLOW BORDERS.
- 10 NOT USED.

STEADY DEMAND SEQUENCE



PHASE DIAGRAM

100% PLANS



| Date | Revision | By |
|------|----------|----|
| | | |
| | | |
| | | |
| | | |

SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-36.1
 72 OF 104

DESIGNED BY SF
 CHECKED BY DJW
 DRAWN BY ACJ/KT
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REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL ENGINEER
 008435
 STATE OF CALIFORNIA

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 490 Mendocino Avenue, Suite 201
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| CONDUCTOR TABLE | | | | | | | | | | |
|------------------------|-----------------------------------|------|----|----|-----|-----|-----|----|----|---|
| AWG | CIRCUIT | RUNS | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| NO. 14 | Ø1 | | | | | 3 | 3 | 3 | | |
| | Ø2 | | 3 | 3 | 3 | 6 | 3 | 3 | | |
| | Ø3 | 3 | 3 | 3 | 3 | 9 | 3 | | | 3 |
| | Ø6 | | 3 | 3 | 3 | 9 | 3 | | | 3 |
| | OLA | 2 | 2 | 2 | 2 | 4 | 2 | 2 | | |
| | OLB | | | 2 | 2 | 2 | | | | |
| | Ø2P | | 2 | 2 | 2 | 4 | 2 | 2 | | |
| | Ø6P | | | | 2 | 2 | | | | |
| | Ø8P | | 2 | 2 | 2 | 4 | | | | 2 |
| | PBA(Ø2P) | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | |
| | PBA(Ø6P) | | | | 1 | 1 | | | | |
| | PBA(Ø8P) | | 1 | 1 | 1 | 2 | | | | 1 |
| | PBA NEUTRAL* | 1 | 2 | 2 | 3 | 5 | 1 | 1 | 1 | 1 |
| | SPARES | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | |
| | TOTAL No. 14 | | 10 | 22 | 24 | 28 | 59 | 21 | 15 | 5 |
| NO. 8 | SIGNAL NEUTRAL | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | RAMP METERING (120V) | | | 2 | | | | | | |
| | TOTAL No. 8 | 1 | 1 | 3 | 1 | 2 | 1 | 1 | 1 | 1 |
| NO. 6 | SIGNALS (120V) | | | 2 | 2 | 2 | | | | |
| | LIGHTING (240V) | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | |
| | TOTAL No. 6 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | |
| DLC | 119L | | | 1 | 1 | 1 | | | | |
| | 111U/111L/119U | 2 | 2 | 3 | 3 | 3 | | | | |
| | 212U/212L/213U/213L/ 214U/214L | | | | | 6 | 6 | 6 | | |
| | 6J2U/6J2L/6J3U/6J4U/ 6J4L | | | 5 | 5 | 5 | | | | |
| | 3J6U/3J6L/3J8U/3J8L | 4 | 4 | 4 | 4 | 4 | | | | |
| | 315U/319L | 2 | 2 | 2 | 2 | 2 | | | | |
| | TOTAL DLC | 8 | 8 | 15 | 15 | 21 | 6 | 6 | | |
| CONDUIT SIZE (INCHES) | | 3 | 3 | 3 | 2-3 | 2-3 | 2.5 | 3 | 2 | 2 |
| CONDUIT FILL (PERCENT) | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------|-----|-----|----------------|----------|------------------|--------------|-------------|--------|------------|------------|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST ARM | | POLE | | Ø | MTG | Ø | ARROW | | |
| | | | | MTG | Ø | MTG | Ø | | | | | | |
| (A) | 1-B | - | - | - | - | TV-1-T | Ø3,OLB | - | - | - | - | - | |
| (B) | 26-3-70 | 40' | 15' | MAS | Ø2 | SV-1-T SV-1-T | Ø2,OLA Ø6 | Ø2P Ø8P | SP-2-T | Ø2P Ø8P | --> <-- | | |
| (C) | 1-B | - | - | - | - | TV-1-T | Ø6* | - | - | Ø8P | --> | | |
| (D) | 19-1-70 | 25' | 12' | MAS | Ø3 | SV-1-T | Ø3,OLB | Ø6P Ø8P | SP-2-T | Ø6P | <-- | | |
| (E) | 1-B | - | - | - | - | TV-1-T | Ø6* | Ø6P | SP-1-T | Ø6P | <-- | | |
| (F) | 29-5-70 | 50' | 15' | MAS | Ø1 Ø6 | SV-1-T | Ø3 | - | - | - | - | | PEU |
| (G) | 1-B | - | - | - | - | TV-2-T | Ø2,OLA Ø1 | Ø2P | SP-1-T | - | - | | |
| (H) | 15 | - | 12' | - | - | - | - | - | - | Ø2P | <-- | | |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED.
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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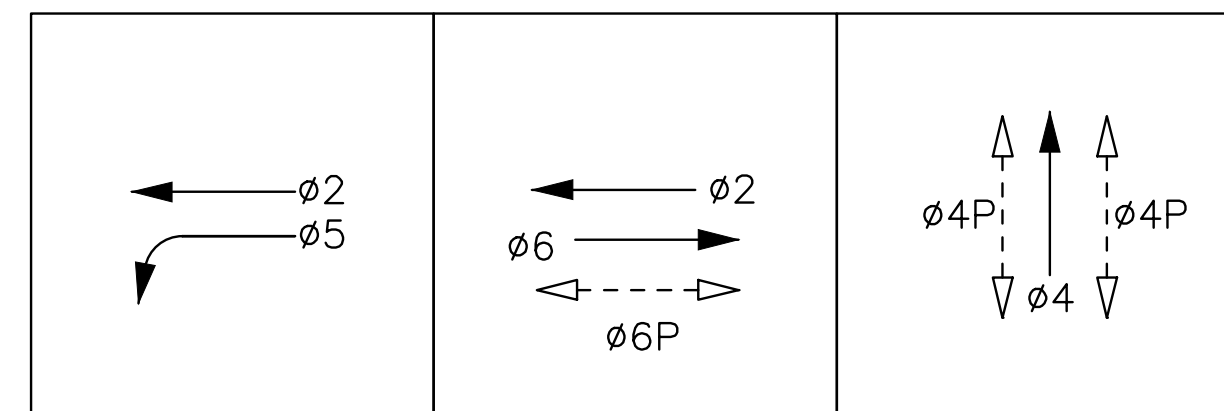
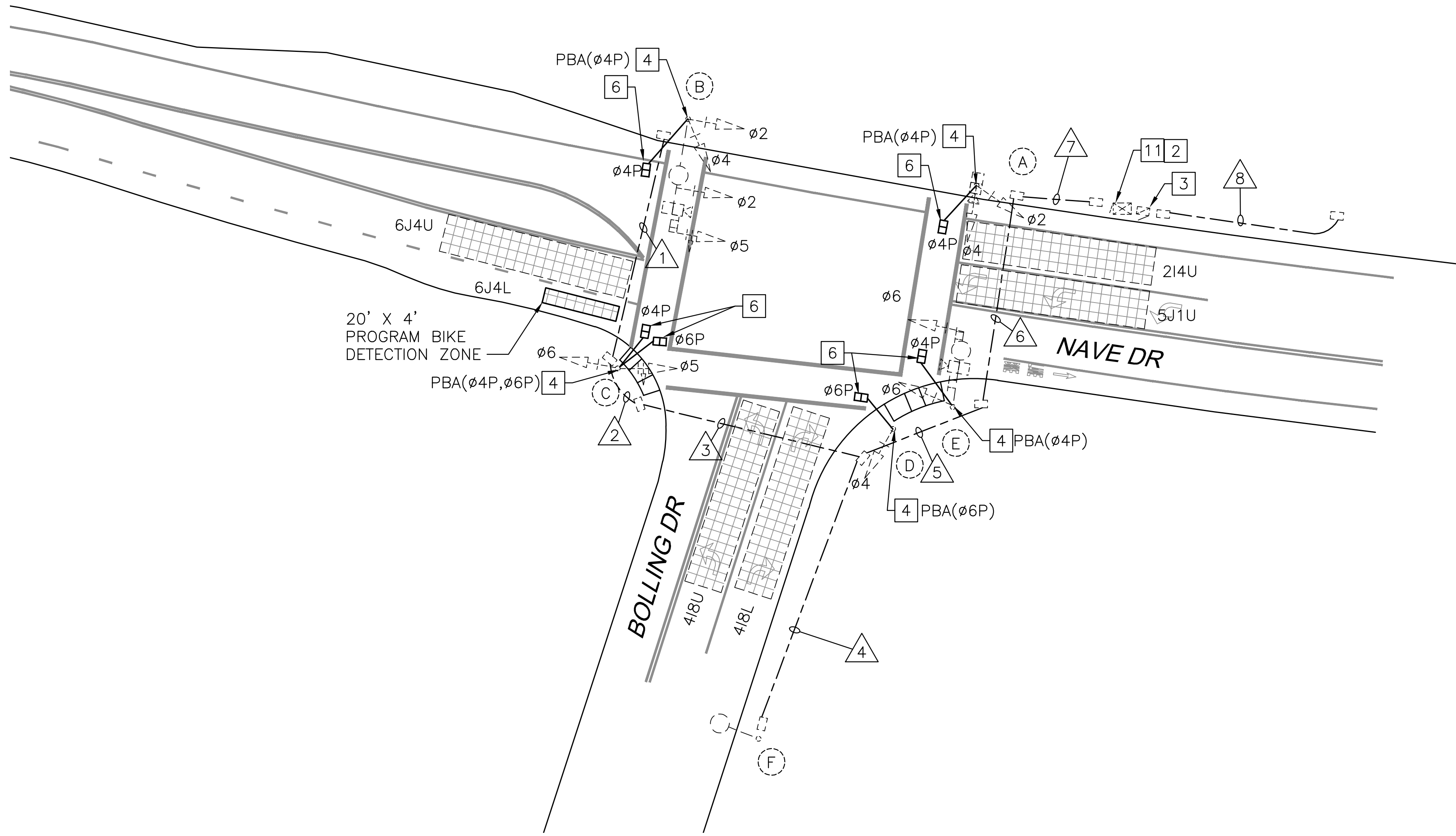
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HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 BEL MARIN KEYS BLVD-IGNACIO/NAVE DR
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-36.2 |
| | | | 73 OF 104 |

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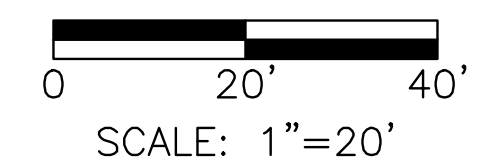
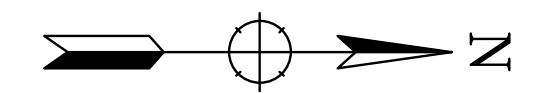
Oct 01, 2021 11:53am



PHASE DIAGRAM

PROJECT NOTES (THIS SHEET ONLY)

- 1 NOT USED.
- 2 FURNISH AND INSTALL APS CONTROL UNIT.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 NOT USED.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 NOT USED.
- 9 NOT USED.
- 10 NOT USED.
- 11 EXISTING MODEL 170E CONTROLLER IN TYPE 332 ASSEMBLY AND BBS TO REMAIN.



100% PLANS

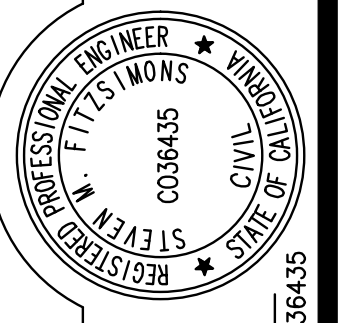
| Date | Revision | By |
|------|----------|----|
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SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-37.1
 74 OF 104

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HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NAVE DR/BOLLING DR
 TRAFFIC SIGNAL MODIFICATION

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | | | |
|------------------------|----------------|------|----|---|----|----|----|---|---|
| AWG | CIRCUIT | RUNS | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| NO. 14 | ø2 | 3 | 3 | 3 | | 3 | 3 | 3 | |
| | ø4 | 3 | 3 | 3 | | 3 | 3 | 3 | |
| | ø5 | 3 | 3 | 3 | | 3 | 3 | 3 | |
| | ø6 | | 3 | 3 | | 3 | 3 | 3 | |
| | ø4P | 2 | 2 | 2 | | 2 | 2 | 2 | |
| | ø6P | | 2 | 2 | | 2 | 2 | 2 | |
| | PBA(ø4P) | 1 | 1 | 1 | | 1 | 1 | 1 | |
| | PBA(ø6P) | | 1 | 1 | | 1 | 1 | 1 | |
| | PBA NEUTRAL* | 1 | 2 | 2 | | 2 | 2 | 2 | |
| | SPARES | 3 | 3 | 3 | | 3 | 3 | 3 | |
| TOTAL No. 14 | 16 | 23 | 23 | | 23 | 23 | 23 | | |
| NO. 8 | SIGNAL NEUTRAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | LUMINAIRE | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | SERVICE | | | | | | | | 3 |
| | BONDING | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | TOTAL No. 8 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| COAX | VIDEO | 1 | 1 | 1 | | 1 | 2 | 3 | |
| | TOTAL | 1 | 1 | 1 | | 1 | 2 | 3 | |
| CONDUIT SIZE (INCHES) | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| CONDUIT FILL (PERCENT) | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.

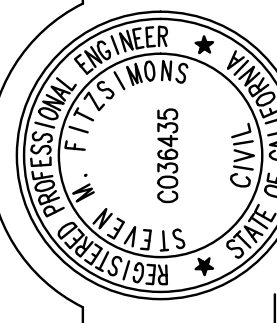
| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|-------------------------|-----|-----|----------------|-------|----------|-------|-------------|--------|---------|------------|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM ø | POLE MTG | ø | ø | MTG | ø | ARROW | | |
| (A) | 1-A (14' HEIGHT) | - | - | - | - | TV-2-T | ø2 ø4 | ø4P | SP-1-T | ø4P | --> | - | G7 "Nave Dr" |
| (B) | 19-4-80 | 30' | 15' | MAS MAS | ø2 ø5 | SV-2-TB | ø2 ø4 | ø4P | SP-1-T | ø4P | <-- | 68W | R73-3, G7-1 |
| (C) | SPECIAL 1A (14' HEIGHT) | - | - | - | - | TV-2-T | ø5 ø6 | ø4P ø6P | SP-2-T | ø4P ø6P | --> <-- | - | |
| (D) | SPECIAL 1A (14' HEIGHT) | - | - | - | - | TV-1-T | ø4 | ø6P | SP-1-T | ø6P | --> | | |
| (E) | 17-3-80 | 20' | 15' | MAS | ø6 | SV-1-TA | ø6 | ø4P | SP-1-T | ø4P | <-- | 68W | |
| (F) | TYPE 15 | | 10' | | | | | | | | | | |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
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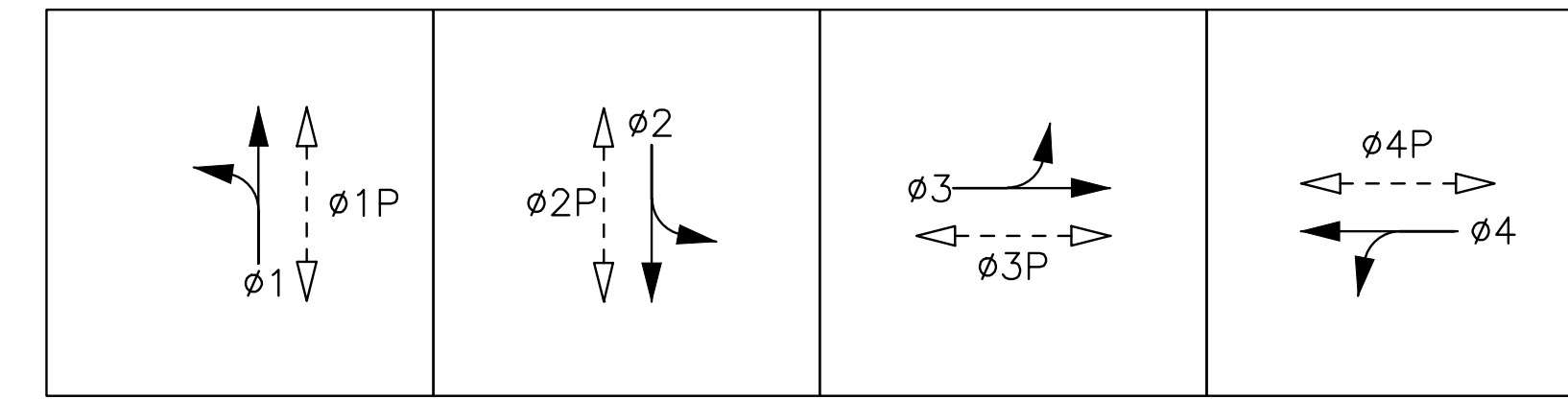
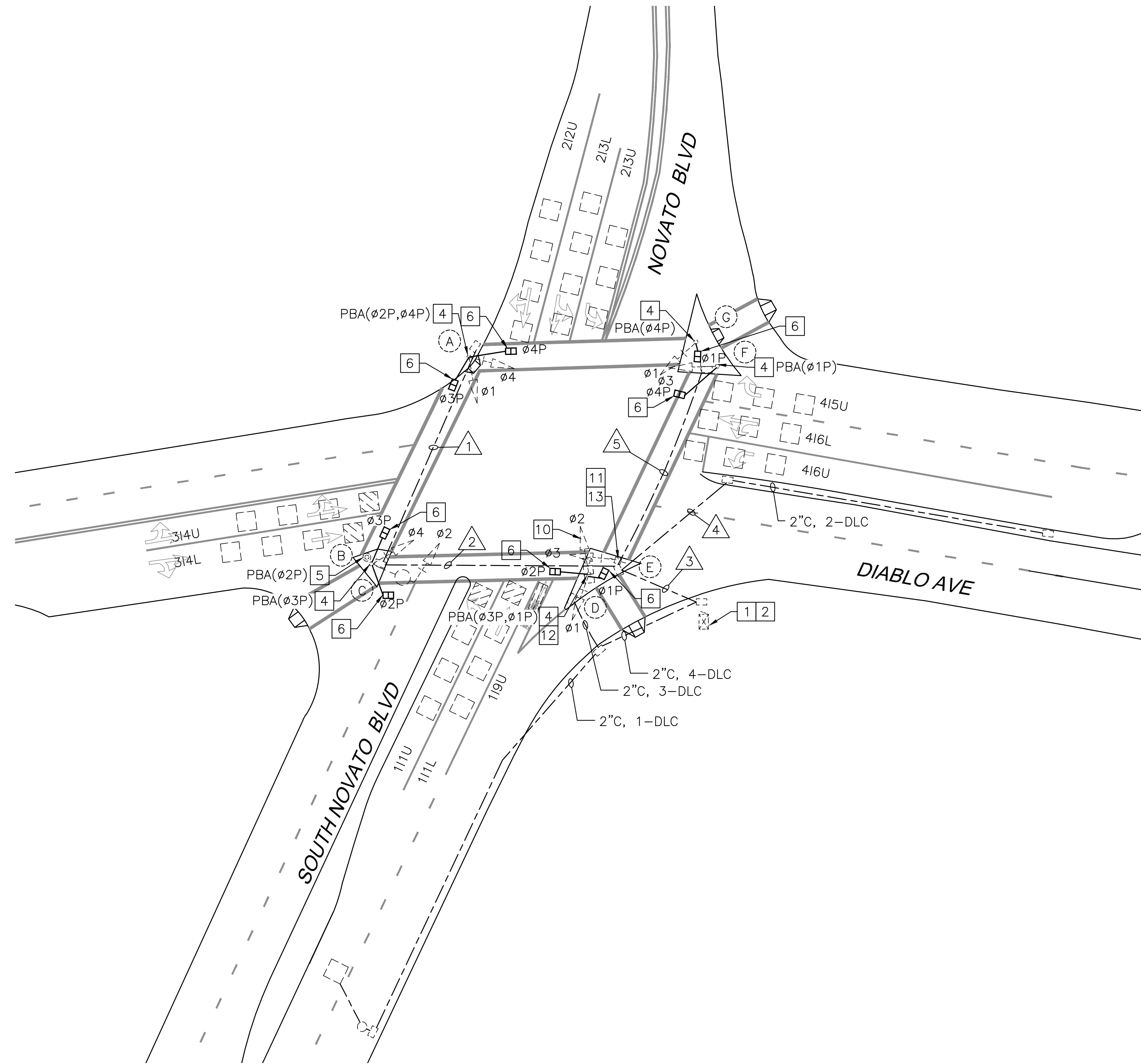


HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NAVE DR/BOLLING DR
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | 1"=20' |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-37.2 |
| | | | 75 OF 104 |

100% PLANS

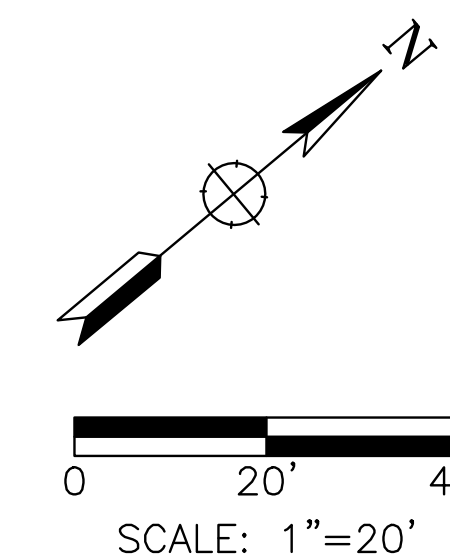
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PHASE DIAGRAM

PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET WITH BBS TO REMAIN.
- 2 INSTALL PBA CONTROL UNIT
- 3 NOT USED.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 NOT USED.
- 9 NOT USED.
- 10 ADD MISSING BACKPLATE PER CSP ES-4C. SEE SPECIAL PROVISIONS. ALL BACKPLATES SHALL BE FURNISHED WITH 2" REFLECTIVE YELLOW BORDERS.
- 11 EXISTING METER ENCLOSURE ON WOOD POLE TO REMAIN.
- 12 FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 13 REMOVE PUSH BUTTON FROM EXISTING PPB AND INSTALL COVER PLATE. REVERSE PPB SIGN. REMOVE PPB CONDUCTORS AND PULL TO POLE D. ABANDON CONDUIT AND BUTTON HOUSING IN PLACE.



100% PLANS

| Date | Revision | By |
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SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-38.1
 76 OF 104

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 REGISTERED PROFESSIONAL ENGINEER
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 008435
 STATE OF CALIFORNIA

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 DRAWN BY ACJ/KT
 DATE

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NOVATO BLVD/DIABLO DR
 TRAFFIC SIGNAL MODIFICATION

| CONDUCTOR TABLE | | | | | | |
|------------------------|----------------|------|----|----|---|----|
| AWG | CIRCUIT | RUNS | | | | |
| | | 1 | 2 | 3 | 4 | 5 |
| NO. 14 | Ø1 | 3 | 3 | 6 | | 3 |
| | Ø2 | | 3 | 3 | | |
| | Ø3 | | | 3 | | 3 |
| | Ø4 | 3 | 3 | 3 | | |
| | Ø1P | | | 2 | | 2 |
| | Ø2P | | 2 | 2 | | |
| | Ø3P | 2 | 2 | 2 | | |
| | Ø4P | 2 | 2 | 4 | | 2 |
| | PBA(Ø1P) | | | 1 | | 1 |
| | PBA(Ø2P) | | 1 | 1 | | |
| | PBA(Ø3P) | 1 | 1 | 1 | | |
| | PBA(Ø4P) | 1 | 1 | 2 | | |
| | PBA NEUTRAL* | 2 | 3 | 5 | | 1 |
| | SPARES | 3 | 3 | 3 | | 3 |
| TOTAL No. 14 | | 17 | 24 | 38 | | 15 |
| NO. 10 | LUMINAIRE | | 2 | 2 | | 2 |
| | 120V NEUTRAL | 1 | 1 | 1 | | 1 |
| | TOTAL No.10 | 1 | 3 | 3 | | 3 |
| NO. 6 | SERVICE | | | 4 | | |
| | TOTAL No. 6 | | | 4 | | |
| NO. 12 DLC | 212U/213L/213U | 3 | 3 | 3 | | |
| | 314L/314U | | 2 | 2 | | |
| | 415U/416L/416U | | | 3 | | 3 |
| | COUNTING | | | 2 | 2 | |
| TOTAL DLC | 3 | 5 | 10 | 2 | 3 | |
| CONDUIT SIZE (INCHES) | | 2 | 2 | 2 | 1 | 1 |
| CONDUIT FILL (PERCENT) | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.

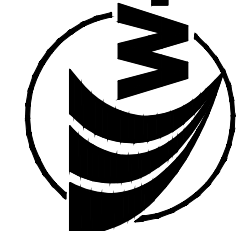
| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|------------------------------|-----|-----|----------------|-------|-----------|-------|-------------|--------|---------|-------|---------------|--|
| No. | STANDARD | | | VEHICLE SIGNAL | | POLE | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | MTG | Ø | ARROW | | |
| (A) | SPECIAL 1-A | - | - | - | - | SV-2-2T | Ø1 Ø4 | Ø3P Ø4P | SP-2-T | Ø3P Ø4P | <--> | - | Ø4 VEHICLE SIGNAL FACE 4 SECTION WITH GREEN ARROW. |
| (B) | PPB POST | - | - | - | - | - | - | - | - | Ø3 | --> | - | |
| (C) | SPECIAL XV-II (28.5' HEIGHT) | 15' | 12' | MAS | Ø3 | SV-1-T | Ø3 | Ø2P Ø3P | SP-2-T | Ø2P | --> | 38W | |
| (D) | SPECIAL 1-A (18' HEIGHT) | - | - | - | - | SV-1 SV-1 | Ø1 Ø2 | Ø1P Ø2P | SP-2-T | Ø2P | --> | - | Ø3 VEHICLE SIGNAL FACE 4 SECTION WITH GREEN ARROW. |
| (E) | PG&E UTILITY POLE | - | - | - | - | SV-1 | Ø3 | - | - | Ø1P | <--> | - | ALL SIGNAL EQUIPMENT MOUNTED ON UTILITY POLE. |
| (F) | SPECIAL 1-A (18' HEIGHT) | - | - | - | - | SV-1-T | Ø3 | Ø1P | SP-1-T | Ø1P | --> | - | |
| (G) | SPECIAL XV-II (28.5' HEIGHT) | - | - | - | - | SV-1-T | Ø1 | Ø4P | SP-1-T | Ø4P | <--> | 38W | |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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100% PLANS

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-38.2 |
| | | | 77 OF 104 |


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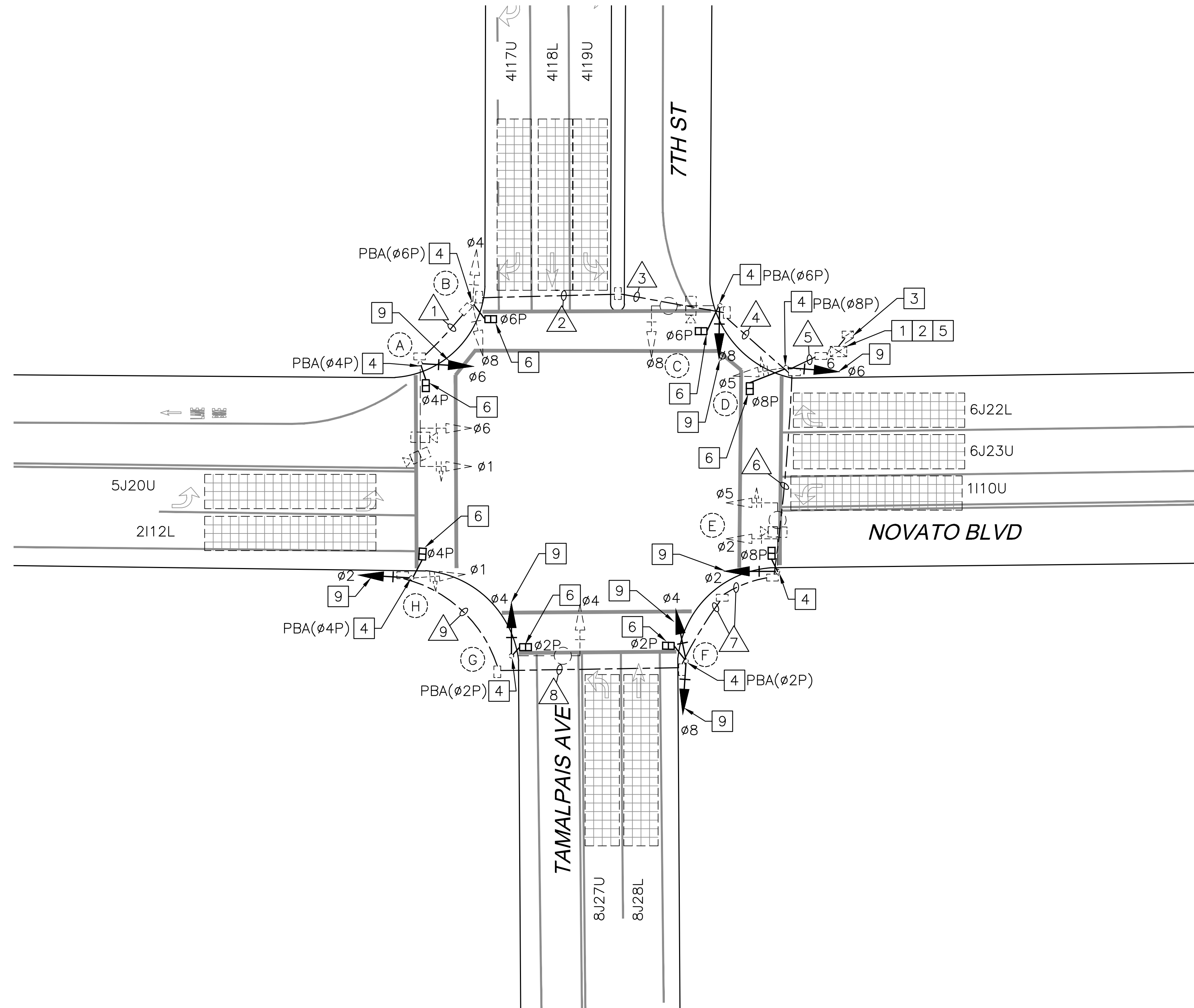
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REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL
 STATE OF CALIFORNIA
 008435

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

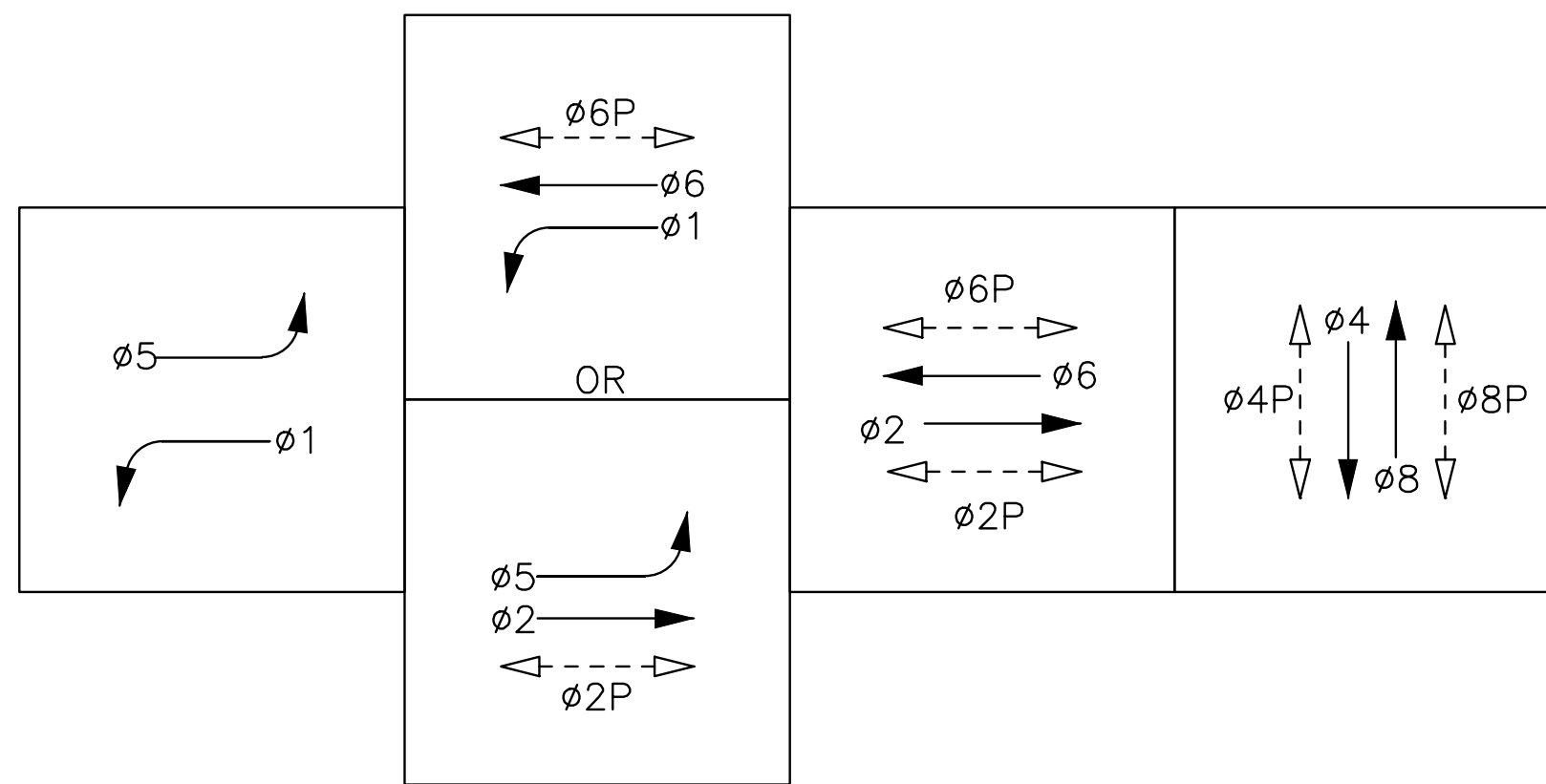
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 COUNTY OF MARIN - CITY OF NOVATO
 NOVATO BLVD/DIABLO DR
 ELECTRICAL SCHEDULES

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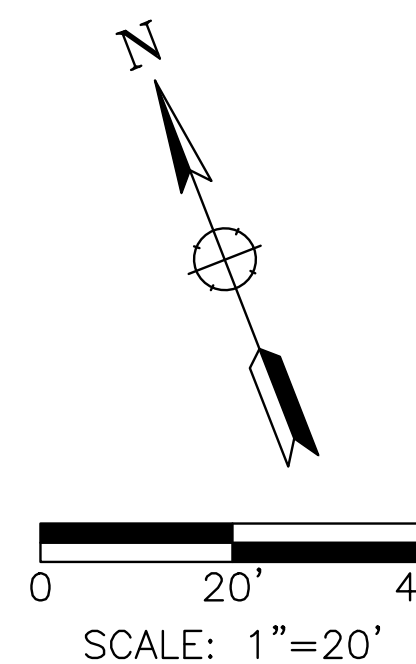


PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 INSTALL APS CONTROL UNIT.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 SOFTWARE TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD 7 SECONDS OF LPI. PROGRAM THE NEW TIMING IN THE MODIFIED CONTROLLER.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED..
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS.
- 10 NOT USED.



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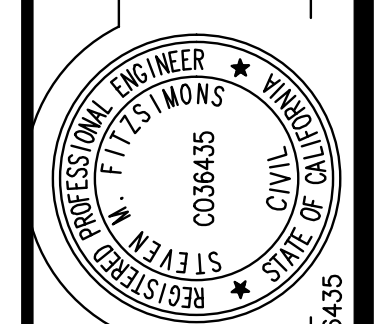


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| Date | Revision | By |
|------|----------|----|
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SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-39.1
 78 OF 104

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NOVATO BLVD/TAMALPAIS AVE-7TH ST
 TRAFFIC SIGNAL MODIFICATION



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 CHECKED BY DJW
 DRAWN BY ACJ/KT
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| CONDUCTOR TABLE | | | | | | | | | | |
|------------------------|-------------------|------|-----|-----|-----|----|----|----|-----|---|
| AWG | CIRCUIT | RUNS | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| NO. 14 | Ø1 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 |
| | Ø2 | | | | | 3 | 3 | 3 | 3 | 3 |
| | Ø4 | | 3 | 3 | 3 | 6 | 3 | 3 | 3 | |
| | Ø5 | | | | | 3 | 3 | | | |
| | Ø6 | 3 | 3 | 3 | 3 | 3 | | | | |
| | Ø8 | | 3 | 3 | 3 | 6 | 3 | 3 | | |
| | Ø2P | | | | | 2 | 2 | 2 | 2 | |
| | Ø4P | 2 | 2 | 2 | 2 | 4 | 2 | 2 | 2 | 2 |
| | Ø6P | | 2 | 2 | 2 | 2 | | | | |
| | Ø8P | | | | | 2 | 2 | | | |
| | PBA(Ø2P) | | | | | 2 | 2 | 2 | 1 | |
| | PBA(Ø4P) | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | PBA(Ø6P) | | 1 | 1 | 2 | 2 | | | | |
| | PBA(Ø8P) | | | | | 2 | 1 | | | |
| | PEU | | | | | 3 | 3 | | | |
| SPARES | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | |
| PBA NEUTRAL* | 1 | 2 | 2 | 3 | 8 | 4 | 3 | 2 | 1 | |
| TOTAL No. 14 | 13 | 23 | 23 | 25 | 62 | 35 | 25 | 20 | 13 | |
| NO. 10 | LUMINAIRE | | | | 2 | 2 | 2 | 2 | | |
| | SIGNAL COMMON | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | |
| TOTAL No.10 | 1 | 1 | 1 | 3 | 4 | 3 | 3 | 3 | 1 | |
| DLC | 1110U | | | | | 1 | 1 | | | |
| | 1111U/2112L | | | | | 2 | 2 | 2 | 2 | |
| | 4117U/418L | | 2 | 2 | 2 | 2 | | | | |
| | 5J20U | | | | | 1 | 1 | 1 | 1 | |
| | 6J21U/6J22L/6J23U | | | | | | | | | |
| | 8J27U/8J28L | | | | | 2 | 2 | 2 | | |
| | 4119U | | | 1 | 1 | 1 | | | | |
| TOTAL DLC | | 2 | 3 | 3 | 9 | 6 | 5 | 3 | 3 | |
| CONDUIT SIZE (INCHES) | 2 | 2.5 | 2.5 | 2.5 | 2-3 | 3 | 3 | 4 | 2.5 | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------|-----|-----|----------------|-------|----------|---------|-------------|---------|-------|-----|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | Ø | ARROW | | | |
| (A) | 27-3-70 | 40' | - | MAS MAS | Ø1 Ø6 | SV-1-T | Ø6* | Ø4P | SP-1-CS | Ø4P | <-- | | |
| (B) | 1-A | - | - | - | - | SV-2-TA | Ø4 Ø8 | Ø6P | SP-1-CS | Ø4P | --> | 14' HEIGHT | |
| (C) | 19-1-70 | 25 | 12 | MAS | Ø8 | SV-1-T | Ø8* | Ø6P | SP-1-CS | Ø6P | <-- | | |
| (D) | 1-A | - | - | - | - | SV-1-TA | Ø5 Ø6* | Ø8P | SP-1-CS | Ø8P | --> | | |
| (E) | 19-3-70 | 25' | 12' | MAS MAT | Ø5 Ø2 | SV-1-T | Ø2* | Ø8P | SP-1-CS | Ø8P | <-- | | |
| (F) | 1-A | - | - | - | - | SV-2-TA | Ø4* Ø8* | Ø2P | SP-1-CS | Ø2P | --> | | |
| (G) | 19-1-70 | 25' | 12' | MAS | Ø4 | SV-1-T | Ø4* | Ø2P | SP-1-CS | Ø2P | <-- | | |
| (H) | 1-A | - | - | - | - | SV-2-TA | Ø1 Ø2* | Ø4P | SP-1-CS | Ø4P | --> | 14' HEIGHT | |

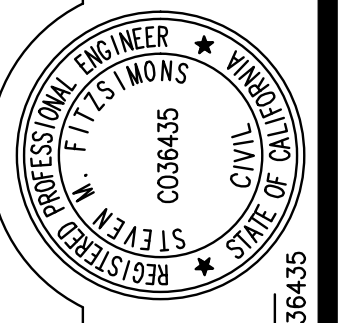
ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

Oct 01, 2021 - 11:53am

100% PLANS

| | | | |
|------|----------|----|----------------|
| Date | Revision | By | SCALE |
| | | | N/A |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-39.2 |
| | | | 79 OF 104 |

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NOVATO BLVD/TAMALPAIS AVE-7TH ST
 ELECTRICAL SCHEDULES



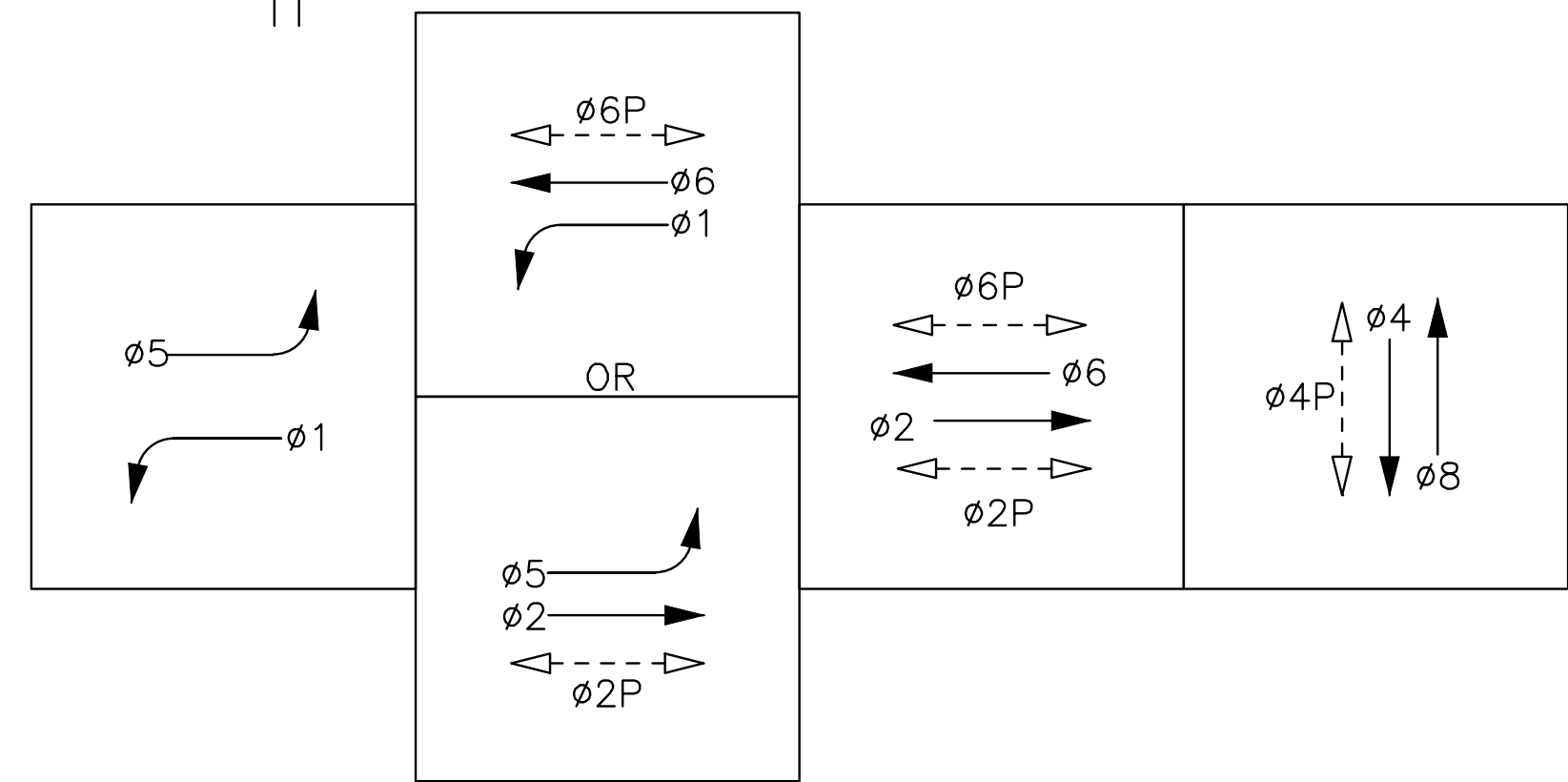
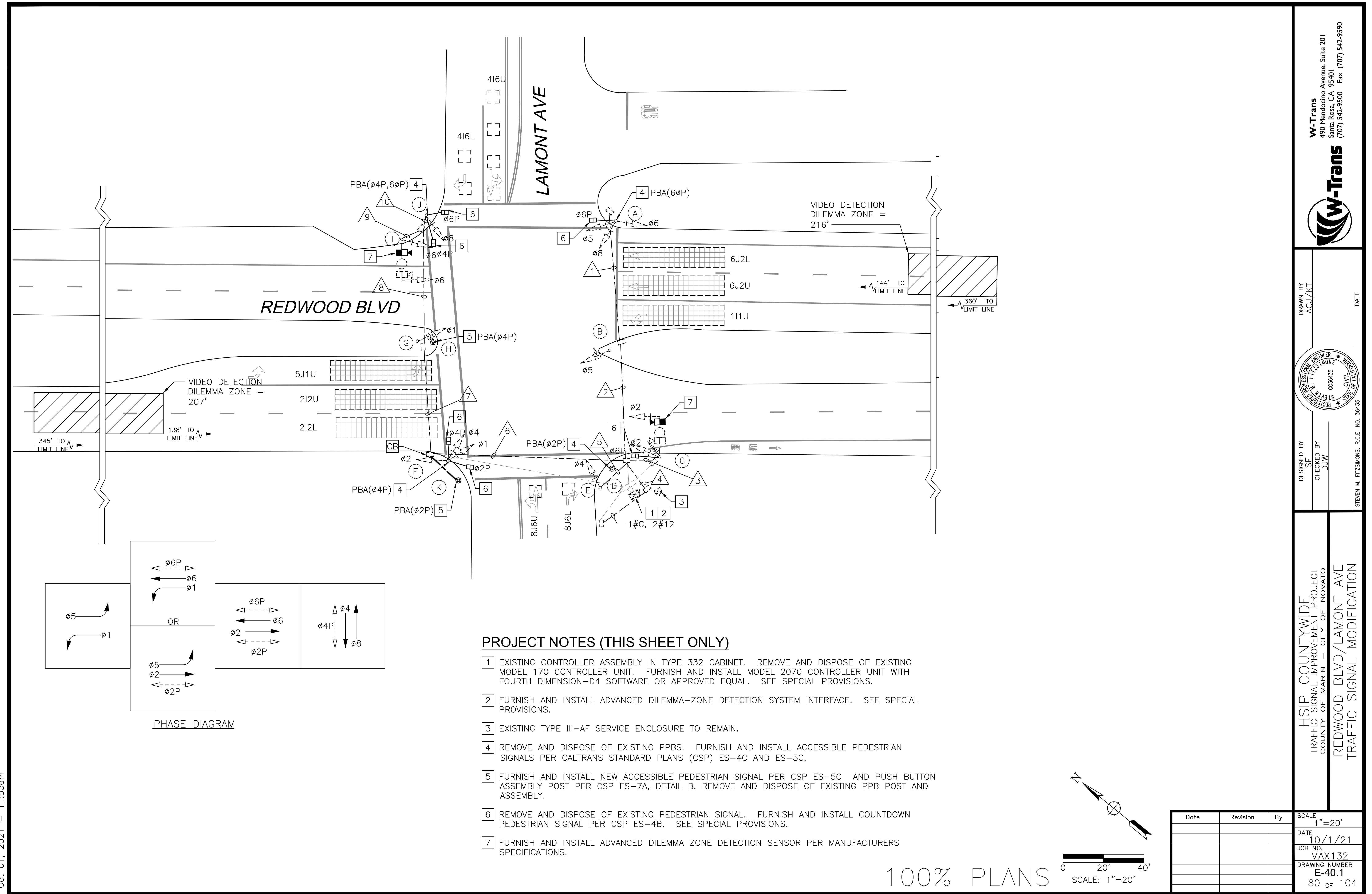
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 ACJ/KT
 CHECKED BY
 DJW
 DATE

DESIGNED BY
 SF
 CHECKED BY
 DJW
 STEVEN M. FITZSIMONS, R.C.E. NO. 36435

W-Trans
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 (707) 542-9500 Fax (707) 542-9590



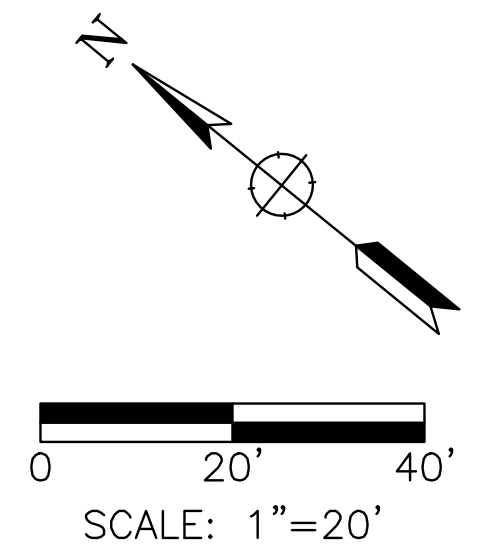
Oct 01, 2021 - 11:53am



PHASE DIAGRAM

PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET. REMOVE AND DISPOSE OF EXISTING MODEL 170 CONTROLLER UNIT. FURNISH AND INSTALL MODEL 2070 CONTROLLER UNIT WITH FOURTH DIMENSION-D4 SOFTWARE OR APPROVED EQUAL. SEE SPECIAL PROVISIONS.
- 2 FURNISH AND INSTALL ADVANCED DILEMMA-ZONE DETECTION SYSTEM INTERFACE. SEE SPECIAL PROVISIONS.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPBS. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNALS PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 FURNISH AND INSTALL ADVANCED DILEMMA ZONE DETECTION SENSOR PER MANUFACTURERS SPECIFICATIONS.



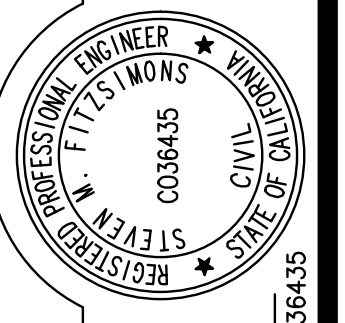
100% PLANS

SCALE: 1"=20'

| Date | Revision | By |
|------|----------|----|
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SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-40.1
 80 OF 104

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/LAMONT AVE
 TRAFFIC SIGNAL MODIFICATION



DESIGNED BY SF
 CHECKED BY DJW
 STEVEN M. FITZSIMONS, R.C.E. NO. 36435

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 DATE



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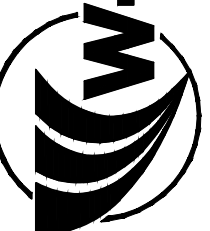
| CONDUCTOR TABLE | | | | | | | | | | | | |
|------------------------|-----------------------|------|----|---|----|---|----|----|----|---|----|--|
| AWG | CIRCUIT | RUNS | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| NO. 14 | Ø1 | | | | 3 | | 3 | 3 | | | | |
| | Ø2 | | | 3 | 6 | | 3 | | | | | |
| | Ø4 | | | | 6 | 3 | 3 | | | | | |
| | Ø5 | 3 | 3 | | 3 | | | | | | | |
| | Ø6 | 3 | 3 | | 6 | | 3 | 3 | 3 | 3 | | |
| | Ø8 | 3 | 3 | | 6 | | 3 | 3 | 3 | | 3 | |
| | Ø2P | | | | 2 | | 2 | | | | | |
| | Ø4P | | | | 2 | | 2 | 2 | 2 | | 2 | |
| | Ø6P | 2 | 2 | | 4 | | 2 | 2 | 2 | | 2 | |
| | PBA(Ø2P) | | | | 1 | | 1 | | | | | |
| | PBA(Ø4P) | | | | 1 | | 1 | 1 | 1 | | 1 | |
| | PBA(Ø6P) | 1 | 1 | | 1 | | 1 | 1 | 1 | | 1 | |
| | PBA NEUTRAL* | 1 | 1 | | 3 | | 3 | 2 | 2 | | 2 | |
| | SPARES | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | TOTAL No. 14 | 16 | 16 | 6 | 47 | 6 | 30 | 20 | 17 | 6 | 14 | |
| NO. 10 | LIGHTING | | | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| | 120V NEUTRAL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | TOTAL No.10 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | |
| DLC | 4I6L/4I6U | | | | 2 | | 2 | 2 | 2 | | | |
| | 8J6U/8J6L | | | | | 2 | | | | | | |
| | TOTAL DLC | | | | 2 | 2 | 2 | 2 | # | # | | |
| SIC | SIGNAL INTERCONNECT | | 1 | | 1 | | | | | | | |
| | RADIO ANTENNA | | | 1 | 1 | | | | | | | |
| CABLES | VIDEO CAMERA | | | 2 | 4 | | 2 | 2 | 2 | 2 | | |
| | ADZD* | | | 1 | 2 | | 1 | 1 | 1 | 1 | | |
| | TOTAL | | | 4 | 7 | | 3 | 3 | 3 | 3 | | |
| | CONDUIT SIZE (INCHES) | | | | | | | | | | | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
 * = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT
 ADZD = ADVANCED DILEMMA ZONE DETECTION SYSTEM

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|--------------------------|-----|-----|----------------|----------|-------------|----------------|-------------|--------|------------|------------|---------------|----------------------|
| No. | STANDARD TYPE | SMA | LMA | VEHICLE SIGNAL | | POLE | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | | | | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | MTG | Ø | ARROW | | |
| (A) | TYPE 1-A (10' HEIGHT) | - | - | - | - | TV-3-T | Ø5 Ø6 Ø8 | Ø6P | SV-1-T | Ø6P | <-- | - | |
| (B) | TYPE 1-A (7' HEIGHT) | - | - | - | - | TV-1-T | Ø5 | - | - | - | - | - | |
| (C) | SPECIAL | 30 | 15 | MAT | Ø2 | SV-1-T | Ø8 | Ø2P | SP-1-T | - | - | 150W | F&I ADZD SENSOR |
| (D) | PPB POST | - | - | - | - | - | - | - | - | Ø2P | --> | - | |
| (E) | TYPE 1-A (9' HEIGHT) | - | - | - | - | TV-1 | Ø4 | - | - | - | - | - | |
| (F) | TYPE 1-A (10' HEIGHT) | - | - | - | - | TV-3-T | Ø1 Ø4 | Ø2P Ø4P | SV-2-T | Ø4P | --> | - | |
| (G) | TYPE 1-A (7' HEIGHT) | - | - | - | - | TV-1-T | Ø1 | - | - | - | - | - | |
| (H) | PPB POST | - | - | - | - | - | - | - | - | Ø4P | <--> | - | |
| (I) | SPECIAL | 30 | 15 | MAT | Ø6 | SV-1-T | Ø8 | - | - | - | - | 150W | F&I ADZD SENSOR |
| (J) | TYPE 1-A (9' HEIGHT) | - | - | - | - | TV-1-T | Ø8 | Ø4P Ø6P | SV-2-T | Ø4P Ø6P | <-- --> | - | |
| (K) | PPB POST | - | - | - | - | - | - | - | - | Ø2P | <-- | - | |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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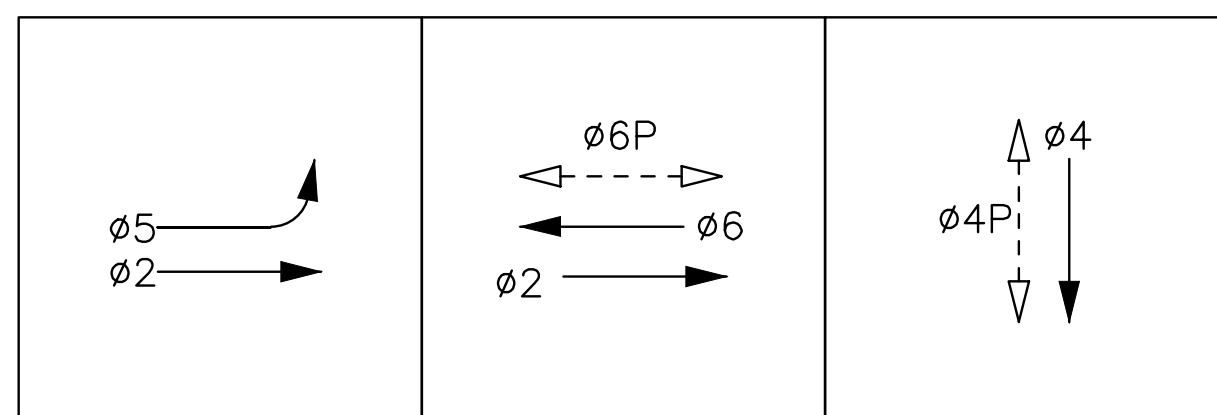


DRAWN BY: ACJ/KT
 CHECKED BY: DJW
 DESIGNED BY: SF
 REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL
 STATE OF CALIFORNIA
 008435
 R.C.E. NO. 36435

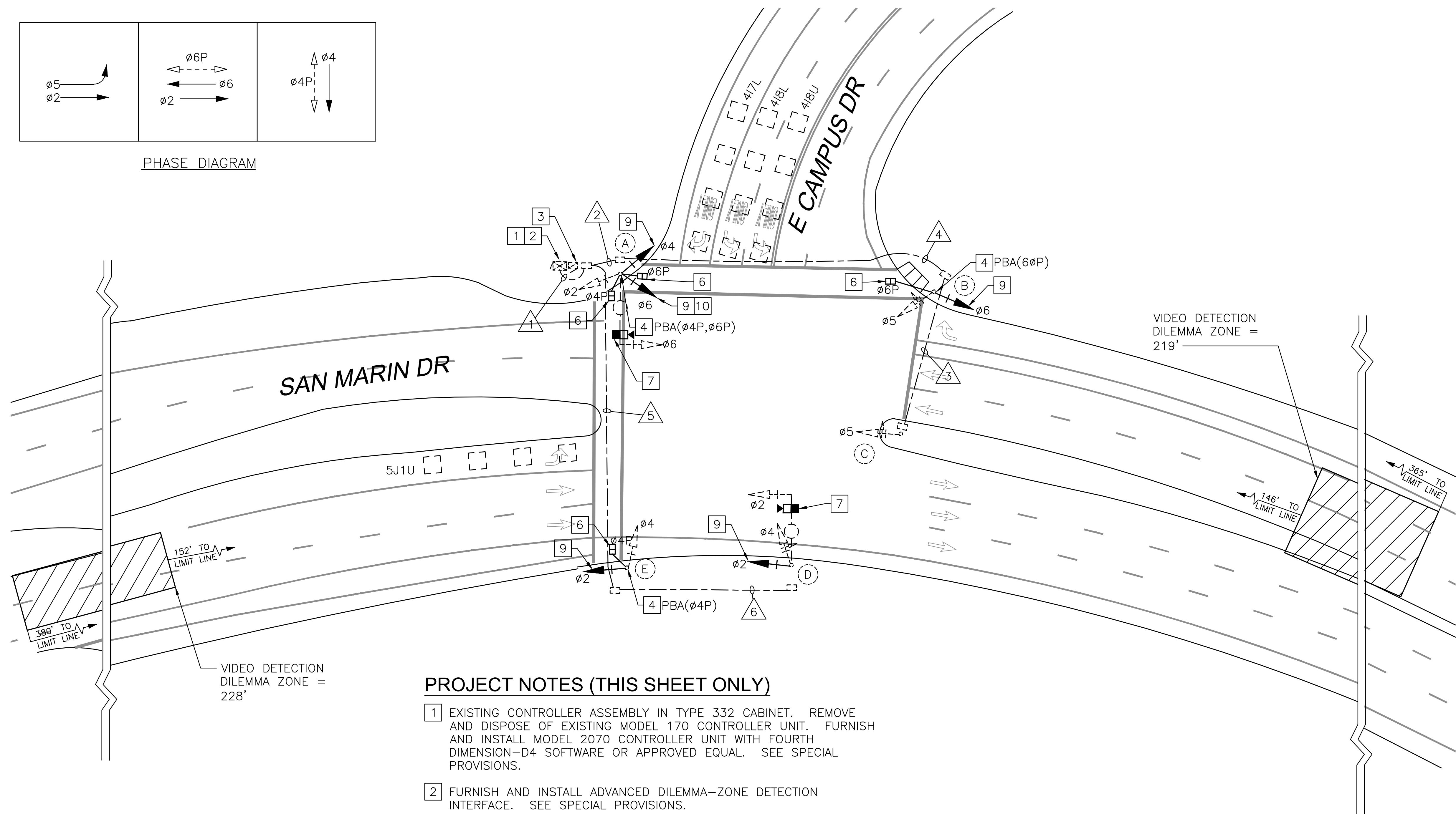
HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/LAMONT AVE
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-40.2 |
| | | | 81 OF 104 |

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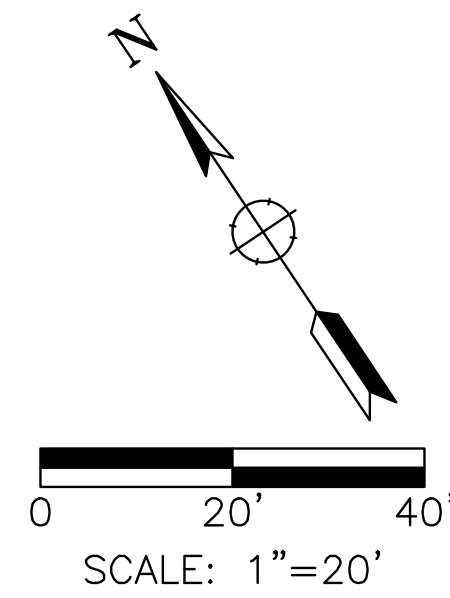
PHASE DIAGRAM



PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET. REMOVE AND DISPOSE OF EXISTING MODEL 170 CONTROLLER UNIT. FURNISH AND INSTALL MODEL 2070 CONTROLLER UNIT WITH FOURTH DIMENSION-D4 SOFTWARE OR APPROVED EQUAL. SEE SPECIAL PROVISIONS.
- 2 FURNISH AND INSTALL ADVANCED DILEMMA-ZONE DETECTION INTERFACE. SEE SPECIAL PROVISIONS.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 SOFTWARE TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD 7 SECONDS OF LPI. PROGRAM THE NEW TIMING IN THE MODIFIED CONTROLLER.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 FURNISH AND INSTALL ADVANCED DILEMMA ZONE DETECTION SENSOR PER MANUFACTURERS SPECIFICATIONS.
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS.
- 10 INSTALL BACKPLATE PER CSP ES-4C. SEE SPECIAL PROVISIONS.
- 11 NOT USED.

100% PLANS



| Date | Revision | By |
|------|----------|----|
| | | |
| | | |
| | | |
| | | |

SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-41.1
 82 OF 104

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DESIGNED BY SF
 CHECKED BY DJW
 DRAWN BY ACJ/KT
 DATE

REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 0038435
 R.C.E. NO. 36435

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 SAN MARIN DR/E CAMPUS DR
 TRAFFIC SIGNAL MODIFICATION

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | |
|------------------------|---------------------|----------|--------|----|----|----|----|
| AWG | CIRCUIT | RUNS | | | | | |
| | | . | . | . | . | . | . |
| NO. 14 | Ø2 | 6 | 3 | | | 3 | 3 |
| | Ø4 | 6 | 3 | | | 3 | 3 |
| | Ø5 | 3 | 3 | 3 | 3 | | |
| | Ø6 | 3 | 3 | | 3 | | |
| | Ø4P | 4 | 2 | | | 2 | |
| | Ø6P | 2 | 2 | | 2 | | |
| | PBA(Ø4P) | 1 | 1 | | | 1 | |
| | PBA(Ø6P) | 1 | 1 | | 1 | | |
| | PBA NEUTRAL* | 2 | 2 | | 1 | 1 | |
| | SPARES | 8 | 4 | 4 | 4 | 4 | 4 |
| | TOTAL No. 14 | 36 | 24 | 7 | 14 | 14 | 10 |
| | NO. 10 | LIGHTING | 2 | 2 | | | |
| SIGNAL COMMON | | 1 | 1 | 1 | 1 | 1 | 1 |
| TOTAL No.10 | | 3 | 3 | 1 | 1 | 1 | 1 |
| DLC | Ø5 | 1 | | | | 1 | |
| | Ø4 | 3 | 3 | | | | |
| | COUNTING DETECTORS | 9 | 9 | | 6 | | |
| | TOTAL DLC | 13 | 12 | | 6 | | |
| CABLE | ADZD* | 2 | 1 | | | 1 | 1 |
| SIC | SIGNAL INTERCONNECT | 9 | 9 | | 9 | | |
| CONDUIT SIZE (INCHES) | | 2-2'2" | 2-2'2" | 2" | 2" | 2" | 2" |
| CONDUIT FILL (PERCENT) | | | | | | | |

* = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT
 ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------|-----|-----|----------------|-------|-----------------|------------------|-------------|--------|------------|------------|---------------|--|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | MTG | Ø | ARROW | | |
| (A) | 19-2-XX | 25 | 12 | MAS | Ø6 | SV-2-T* SV-1 | Ø4* Ø6* Ø2 | Ø4P Ø6P | SP-2-T | Ø4P Ø6P | <-- --> | 68W | Ø2 VEHICLE HEAD MOUNTED ABOVE MAST ARM. ADD ADZD DETECTION. |
| (B) | TYPE 1A | - | - | - | - | SV-2-T | Ø5 Ø6* | Ø6P | SP-1-T | Ø6P | --> | - | EXTRA TALL POLE |
| (C) | TYPE 1A | - | - | - | - | SV-1-T | Ø5 | - | - | - | - | - | EXTRA TALL POLE |
| (D) | 19-2-XX | 25 | 12 | MAS | Ø2 | SV-2-T | Ø4 Ø2* | - | - | - | - | - | ADD ADZD DETECTION |
| (E) | TYPE-1A | - | - | - | - | SV-2-T | Ø2* Ø4 | Ø4P | SP-1-T | Ø4P | <-- | - | EXTRA TALL POLE |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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100% PLANS

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-41.2 |
| | | | 83 OF 104 |

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 PROFESSIONAL ENGINEER
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 008435
 REGISTERED CIVIL ENGINEER
 STATE OF CALIFORNIA

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 ACJ/KT

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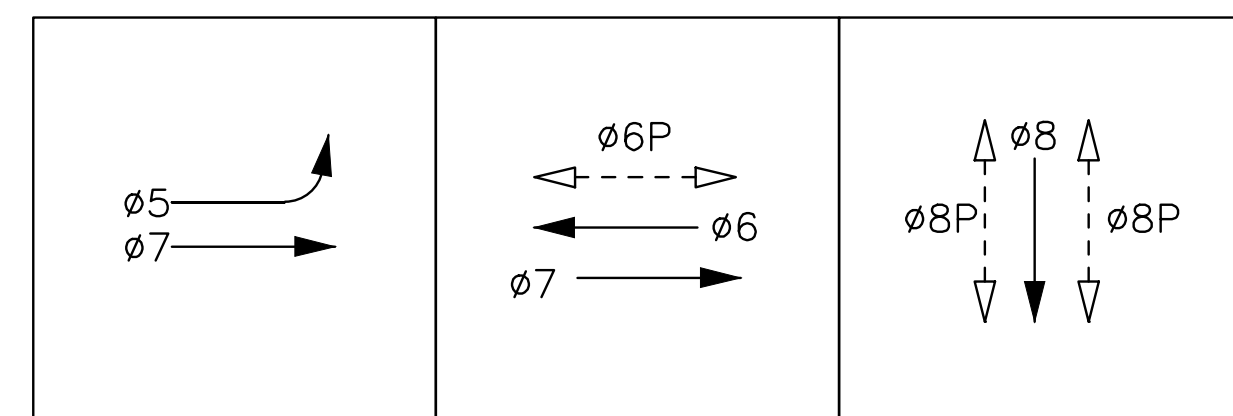
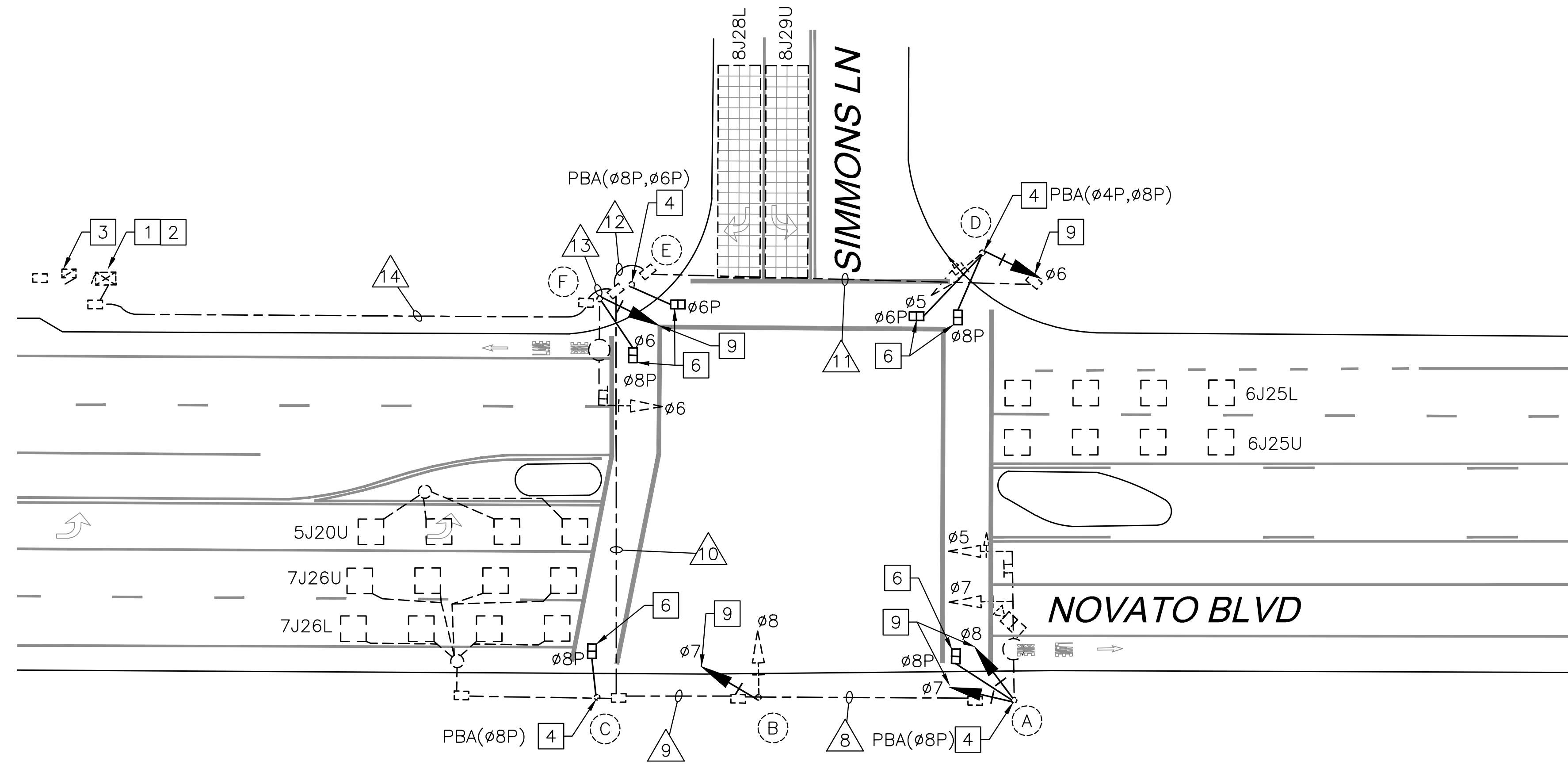
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HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO

SAN MARIN DR/E CAMPUS DR
 ELECTRICAL SCHEDULES



PHASE DIAGRAM

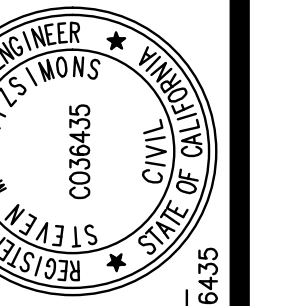
PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 FURNISH AND INSTALL APS CONTROL UNIT.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 NOT USED.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS.
- 10 NOT USED.

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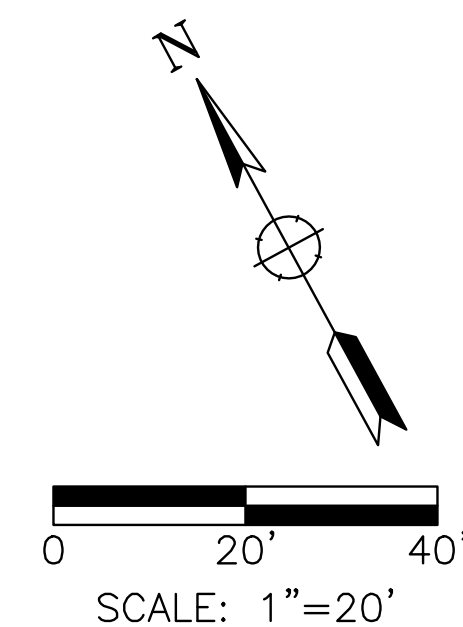


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 DRAWN BY ACJ/KT
 DATE



HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 NOVATO BLVD/SIMMONS LN
 TRAFFIC SIGNAL MODIFICATION

100% PLANS



| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-42.1 |
| | | | 84 OF 104 |

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | | | |
|------------------------|----------------|------|-----|----|----|----|-----|-----|----|
| AWG | CIRCUIT | RUNS | | | | | | | |
| | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| NO. 14 | ø5 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | |
| | ø6 | | | | 3 | 3 | 3 | 6 | |
| | ø7 | 3 | 3 | 3 | | | 6 | 6 | |
| | ø8 | 3 | 3 | 3 | | | 6 | 6 | |
| | ø6P | | | | 2 | 2 | 2 | 2 | |
| | ø8P | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | PBA(ø6P) | | | | 1 | 1 | 2 | 2 | |
| | PBA(ø8P) | 1 | 1 | 1 | 1 | 1 | 2 | 2 | |
| | PBA NEUTRAL* | 1 | 1 | 1 | 2 | 2 | 4 | 4 | |
| | SPARES | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| | TOTAL No. 14 | | 19 | 19 | 19 | 20 | 20 | 39 | 42 |
| | SIGNAL NEUTRAL | | 1 | 1 | 1 | | | 1 | 1 |
| LUMINAIRE | | 2 | 2 | 2 | | | 2 | 2 | |
| TOTAL No. 8 | | 3 | 3 | 3 | | | 3 | 3 | |
| DLC | 7J26L | | | 1 | | | 1 | 1 | |
| | 7J26U | | | 1 | | | 1 | 1 | |
| | 5J20U | | | 1 | | | 1 | 1 | |
| | 8J28L | | | | | 1 | 1 | 1 | |
| | 8J29U | | | | | 1 | 1 | 1 | |
| | 6J25L | | | | 1 | 1 | 1 | 1 | |
| | 6J25U | | | | 1 | 1 | 1 | 1 | |
| | 6J22U | | | | 1 | 1 | 1 | 1 | |
| TOTAL DLC | | | 3 | 3 | 5 | 8 | 8 | | |
| CONDUIT SIZE (INCHES) | | 2.5 | 2.5 | 3 | 3 | 3 | 3.5 | 3.5 | |
| CONDUIT FILL (PERCENT) | | | | | | | | | |

* = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT
ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------|-----|-----|----------------|----|--------|-----|-------------|--------|------|-------|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST ARM | | POLE | | ø | MTG | ø | ARROW | | |
| | | | | MTG | ø | MTG | ø | | | | | | |
| (A) | 24-3-XX | 35' | 12' | MAT | ø5 | SV-2-T | ø7* | ø8 | SP-1-T | ø8P | <-- | 68W | |
| (B) | TYPE 1-B | - | - | - | - | SV-2-T | ø7* | - | - | - | - | - | EXTRA TALL POLE |
| (C) | TYPE 1-B | - | - | - | - | - | - | ø8P | SP-1-T | ø8P | --> | - | |
| (D) | TYPE 1-B | - | - | - | - | SV-2-T | ø5 | ø6P | SP-2-T | ø6P | <--> | - | EXTRA TALL POLE |
| (E) | TYPE 1-B | - | - | - | - | - | - | ø6P | SP-1-T | ø8P | <--> | - | |
| (F) | 19-2-XX | 25' | 12' | MAS | ø6 | SV-1-T | ø6* | ø8P | SP-1-T | - | - | 68W | |

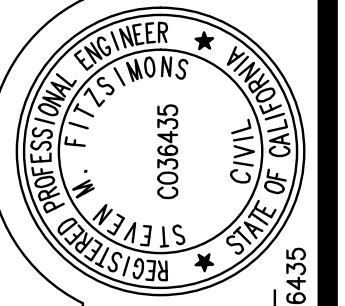
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* = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

Oct 01, 2021 - 11:53am

100% PLANS

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
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| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-42.2 |
| | | | 85 OF 104 |

HSIP COUNTYWIDE
TRAFFIC SIGNAL IMPROVEMENT PROJECT
COUNTY OF MARIN - CITY OF NOVATO
NOVATO BLVD/SIMMONS LN
ELECTRICAL SCHEDULES

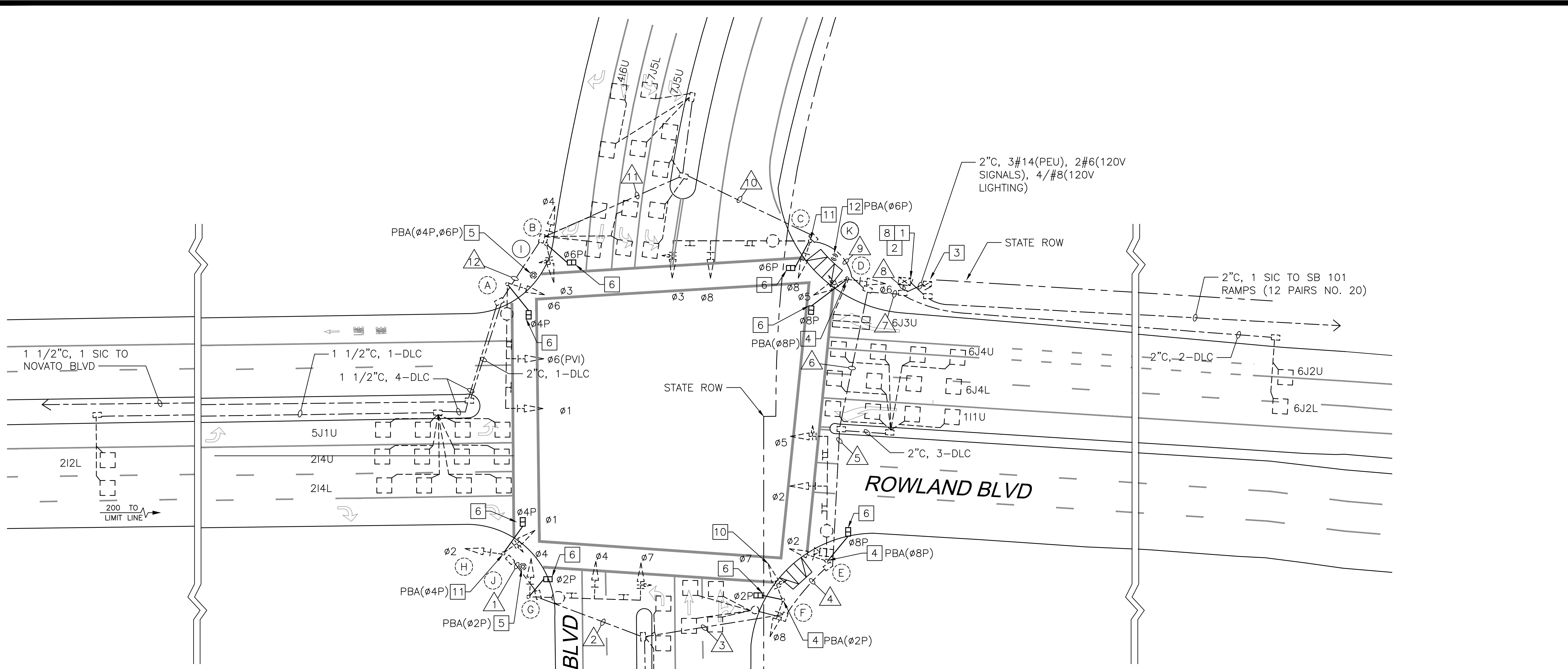


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DATE
STEVEN M. FITZSIMONS, R.C.E. NO. 36435



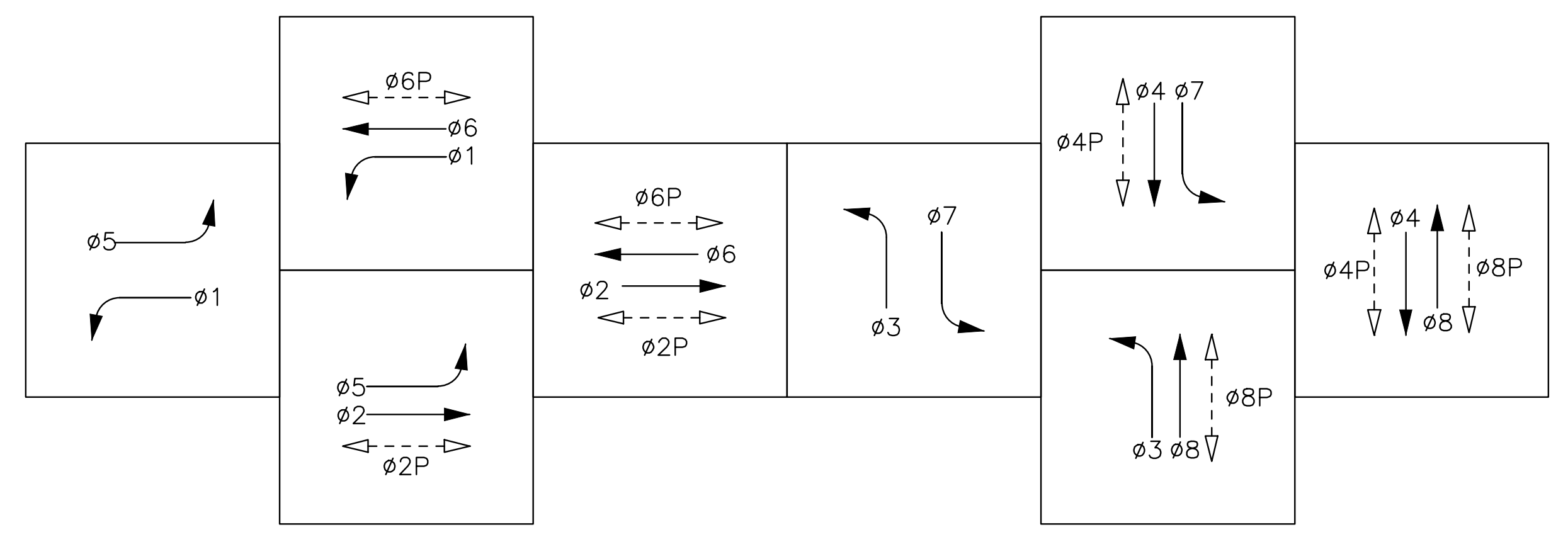
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Santa Rosa, CA 95401
(707) 542-9500 Fax (707) 542-9590

Oct 01, 2021 11:53am

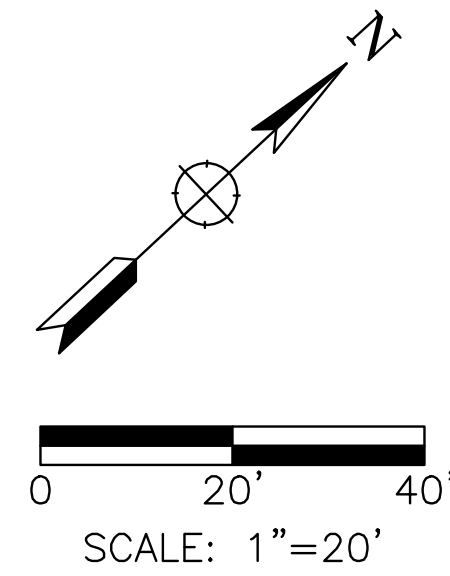


PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 FURNISH AND INSTALL APS CONTROL UNIT.
- 3 EXISTING TYPE III-AF SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 NOT USED.
- 8 REMOVE AND SALVAGE EXISTING VIDEO DETECTION CAMERA AND CABLING FROM POLE, AND VIDEO DETECTION CONTROLLER AND ANCILLARY EQUIPMENT FROM CONTROLLER CABINET.
- 9 NOT USED.
- 10 ADD MISSING BACKPLATE PER CSP ES-4C. SEE SPECIAL PROVISIONS.
- 11 REMOVE PUSH BUTTON FROM EXISTING PPB AND INSTALL COVER PLATE. REVERSE PPB SIGN. REMOVE PPB CONDUCTORS AND PULL TO POLE D. ABANDON CONDUIT AND BUTTON HOUSING IN PLACE. INSTALL NEW POST ON TOP OF CURB AT BACK OF RAMP.
- 12 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B.



PHASE DIAGRAM



100% PLANS

| Date | Revision | By |
|------|----------|----|
| | | |
| | | |
| | | |
| | | |

SCALE 1"=20'
 DATE 10/1/21
 JOB NO. MAX132
 DRAWING NUMBER E-43.1
 86 OF 104

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DRAWN BY ACJ/KT

DATE

REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 CIVIL
 STATE OF CALIFORNIA
 008435

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

HSJIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/ROWLAND BLVD
 TRAFFIC SIGNAL MODIFICATION

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | | | | | | | | |
|------------------------|-------------|------|----|----|----|----|----|----|----|----|----|----|----|----|
| AWG | CIRCUIT | RUNS | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| NO. 14 | Ø1 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 3 | 3 | 3 | 3 | |
| | Ø2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | |
| | Ø3 | | | | | | | | | | | | | |
| | Ø4 | | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 3 | 3 | 3 | | |
| | Ø5 | | | | | 3 | 3 | 6 | 6 | | | | | |
| | Ø6 | | | | | | | 3 | 3 | 3 | 3 | 3 | 3 | |
| | Ø7 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | |
| | Ø8 | | | | 3 | 3 | 3 | 6 | 6 | 3 | | | | |
| | Ø2P | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | |
| | Ø4P | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 2 | 2 | 2 | |
| | Ø6P | | | | | | | 2 | 2 | 2 | 2 | 2 | | |
| | Ø8P | | | | | 2 | 2 | 2 | 2 | | | | | |
| | PBA(Ø2P) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | PBA(Ø4P) | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | PBA(Ø6P) | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | |
| | PBA(Ø8P) | | | | | 1 | 1 | 2 | 2 | | | | | |
| | PBA NEUTRAL | | 2* | 2* | 2* | 2* | 3* | 3* | 5* | 5* | 2* | 2* | 2* | 2* |
| | SPARES | | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 3 | 3 | 3 | 3 |
| TOTAL No. 14 | | 13 | 21 | 21 | 24 | 30 | 30 | 57 | 57 | 24 | 21 | 21 | 13 | |
| LIGHTING | | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | |
| TOTAL No.10 | | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | |
| DLC | Ø1 | | | | | | 1 | 1 | 1 | | | | | |
| | Ø2 | | | | | | 4 | 4 | 4 | 4 | | | 4 | |
| | Ø3 | | | 1 | 1 | 1 | 1 | 1 | 1 | | | | | |
| | Ø4 | | | | | | 2 | 2 | 2 | 2 | 1 | | | |
| | Ø5 | | | | | | 1 | 1 | | | | | 1 | |
| | Ø6 | | | | | | 2 | 2 | 2 | | | | | |
| | Ø7 | | | | | | 2 | 2 | 2 | 2 | 1 | | | |
| | Ø8 | | | 2 | 4 | 4 | 4 | 4 | 4 | | | | | |
| TOTAL DLC | | | 3 | 5 | 5 | 8 | 17 | 17 | 8 | 8 | 2 | 5 | | |
| COAX | | | | | | | | | | | | | | |
| CONDUIT SIZE (INCHES) | | | | | | | | | | | | | | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | | | | |

* = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT
 ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED,

| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|-----------|-----|-----|----------------|-------|----------|-------|-------------|---------|-------|-----|---------------|----------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM Ø | POLE MTG | Ø | Ø | Ø | ARROW | | | |
| (A) | 29-5-70 | 50 | 15 | MAS MAS | Ø1 Ø6 | SV-1-T | Ø6 | Ø4P | SP-1T | - | - | 68W | |
| (B) | TYPE 1-A | - | - | - | - | TV-2-T | Ø3 Ø4 | Ø6P | SP-1-T | - | - | - | |
| (C) | 29-5-70 | 55 | 15 | MAS MAS | Ø3 Ø8 | SV-1-T | Ø8 | Ø6P | SP-1T | - | - | 68W | |
| (D) | TYPE 1-A | - | - | - | - | TV-2-T | Ø5 Ø6 | Ø8P | SP-1-T | Ø8P | --> | - | |
| (E) | 29-5-70 | 50 | 15 | MAS MAS | Ø2 Ø5 | SV-1-T | Ø2 | Ø8P | SP-1T | Ø8P | <-- | 68W | |
| (F) | TYPE 1-A | - | - | - | - | TV-2-T | Ø7 Ø8 | Ø2P | SP-1-T | Ø2P | --> | - | |
| (G) | 26-4-70 | 45 | 12 | MAS MAS | Ø4 Ø7 | SV-1-T | Ø4 | Ø2P | SP-1-T | - | - | 68W | |
| (H) | TYPE 1-A | - | - | - | - | TV-2-T | Ø1 Ø2 | Ø4P | SP-1-T | Ø4P | --> | - | |
| (I) | PPB POST | - | - | - | - | - | - | - | Ø6P | --> | - | - | |
| (J) | PPB POST | - | - | - | - | - | - | - | Ø4P Ø6P | <--> | - | - | |
| (K) | PPB POST* | - | - | - | - | - | - | - | Ø6P | --> | - | - | |

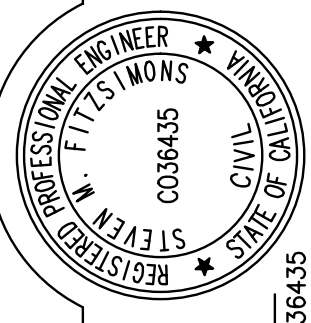
ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED
 * = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

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DESIGNED BY
 SF

CHECKED BY
 DJW



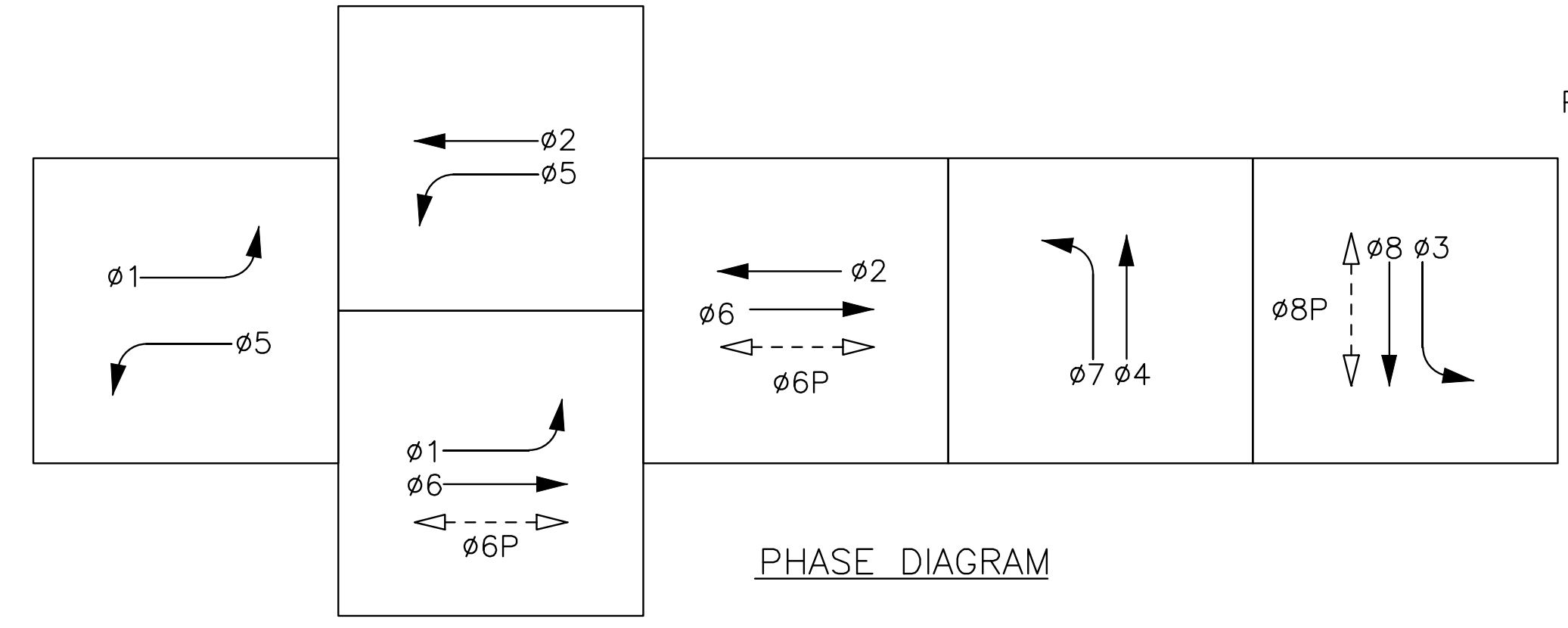
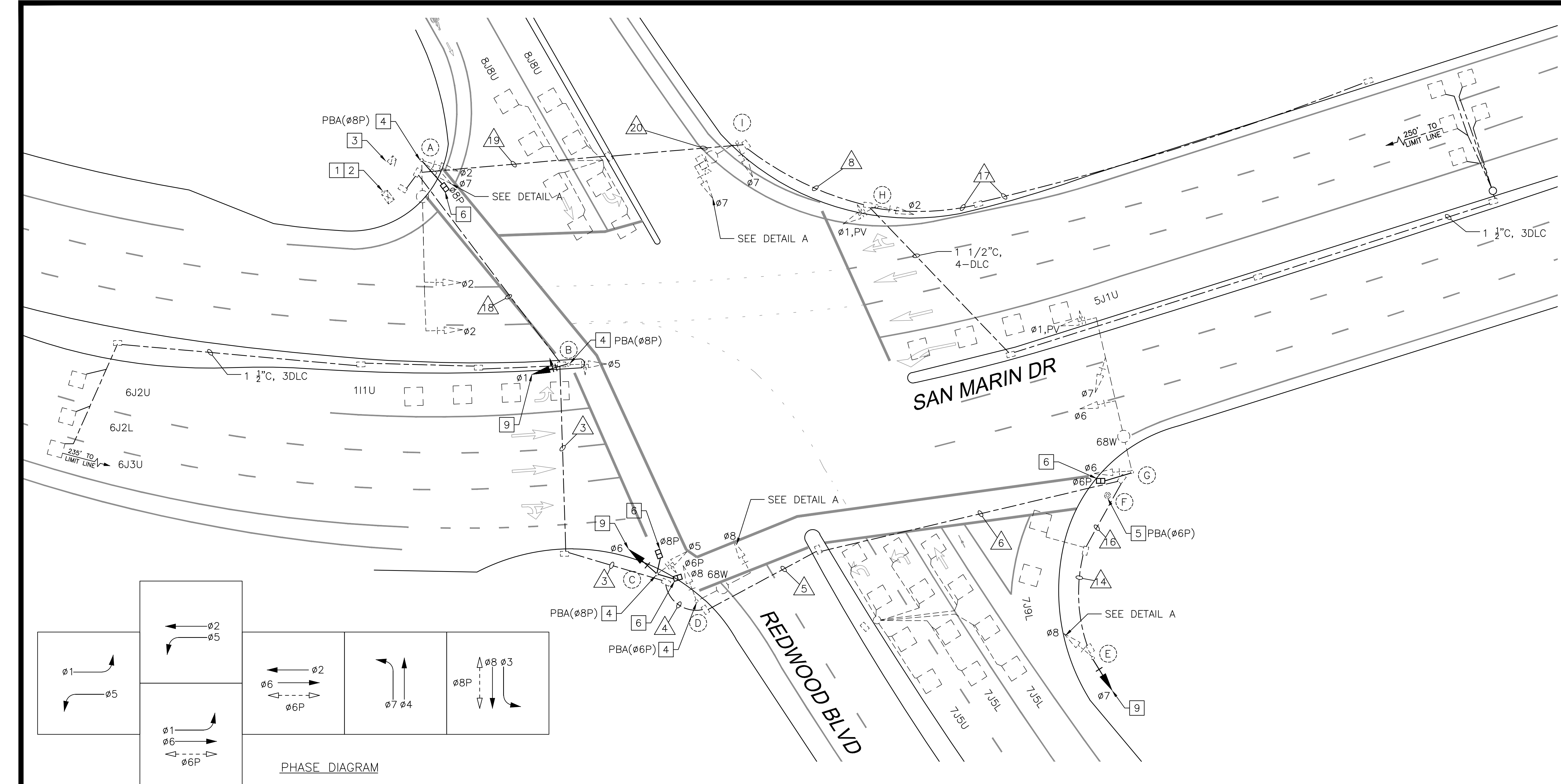
DATE

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/ROWLAND BLVD
 ELECTRICAL SCHEDULES

| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-43.2 |
| | | | 87 OF 104 |

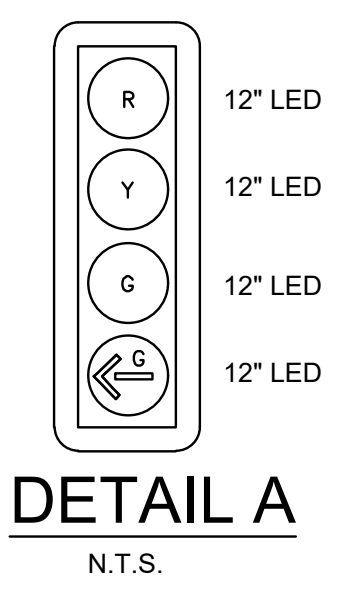
100% PLANS

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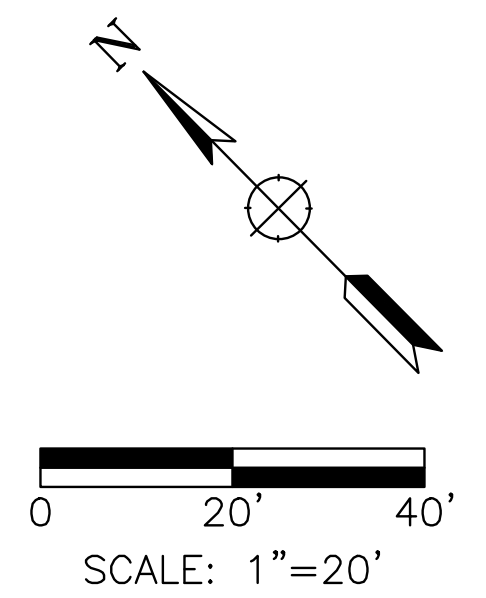


PROJECT NOTES (THIS SHEET ONLY)

- 1 EXISTING CONTROLLER ASSEMBLY IN TYPE 332 CABINET.
- 2 FURNISH AND INSTALL PBA CONTROLLER UNIT.
- 3 EXISTING SERVICE ENCLOSURE TO REMAIN.
- 4 REMOVE AND DISPOSE OF EXISTING PPB. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER CALTRANS STANDARD PLANS (CSP) ES-4C AND ES-5C.
- 5 FURNISH AND INSTALL NEW ACCESSIBLE PEDESTRIAN SIGNAL PER CSP ES-5C AND PUSH BUTTON ASSEMBLY POST PER CSP ES-7A, DETAIL B. REMOVE AND DISPOSE OF EXISTING PPB POST AND ASSEMBLY. FURNISH AND INSTALL 6-INCH EXTENDER.
- 6 REMOVE AND DISPOSE OF EXISTING PEDESTRIAN SIGNAL. FURNISH AND INSTALL COUNTDOWN PEDESTRIAN SIGNAL PER CSP ES-4B. SEE SPECIAL PROVISIONS.
- 7 INSTALL CHIP TO UPGRADE EXISTING MCCAIN 200 SOFTWARE TO 233. PREPARE COMPLETE 233 TIMING SHEETS TO REPLICATE EXISTING OPERATIONS AND ADD 7 SECONDS OF LPI. PROGRAM THE NEW TIMING IN THE MODIFIED CONTROLLER.
- 8 NOT USED.
- 9 REPLACE 8" VEHICLE SIGNAL HEAD WITH 12" VEHICLE SIGNAL HEAD PER CSP ES-4C OR ES-4E. FOR SIDE-MOUNTED HEADS, REPLACE OR REVISE MOUNTING PER ES-4A OR ES-4C. REVISED MOUNTINGS SHALL BE PAINTED PER THE SPECIAL PROVISIONS.
- 10 NOT USED.



100% PLANS



| Date | Revision | By | SCALE |
|------|----------|----|----------------|
| | | | 1"=20' |
| | | | DATE |
| | | | 10/1/21 |
| | | | JOB NO. |
| | | | MAX132 |
| | | | DRAWING NUMBER |
| | | | E-44.1 |
| | | | 88 OF 104 |

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DRAWN BY
ACJ/KT

DESIGNED BY
SF

CHECKED BY
DJW

REGISTERED PROFESSIONAL ENGINEER
FITZSIMONS
STEVEN M. FITZSIMONS
008435
CIVIL
STATE OF CALIF.

DATE

STEVEN M. FITZSIMONS, R.C.E. NO. 36435

HSIP COUNTYWIDE
TRAFFIC SIGNAL IMPROVEMENT PROJECT
COUNTY OF MARIN - CITY OF NOVATO
REDWOOD BLVD/SAN MARIN DR
TRAFFIC SIGNAL MODIFICATION

Oct 01, 2021 - 11:53am

| CONDUCTOR TABLE | | | | | | | | | | | | |
|------------------------|---------------------|------------------------------|-----|-----|----|---|----|-----|----|-----|-----|----|
| AWG | CIRCUIT | RUNS | | | | | | | | | | |
| | | 3 | 4 | 5 | 6 | 8 | 14 | 16 | 17 | 18 | 19 | 20 |
| NO. 14 | ø1 | 3 | 3 | 3 | 3 | 3 | | | | 3 | 3 | 3 |
| | ø2 | | | | | 3 | | | | | 3 | 3 |
| | ø5 | 3 | 3 | 3 | 3 | 3 | | | | 3 | | |
| | ø6 | 3 | 3 | 3 | 3 | | | | | 3 | | |
| | ø7 | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | 3 | 3 |
| | ø8 | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | | |
| | ø6P | 2 | 2 | 2 | 2 | | | | | 2 | | |
| | ø8P | 2 | | | | | | | | 2 | | |
| | PPB(ø6P) | 1 | 1 | 1 | 1 | | | | | 1 | | |
| | PPB(ø8P) | 1 | | | | | | | | 1 | | |
| | PBA NEUTRAL | | | | | | | | | | | |
| | PPB COMMON | 1 | 1 | 1 | 1 | | | | | 1 | | |
| | PEC | | | | | | | | | | | |
| | SPARES | 3 | 3 | 3 | 3 | | 3 | 3 | | 3 | | |
| | SIGNAL INTERCONNECT | | | | | | 7 | | | 7 | 7 | 7 |
| TOTAL No. 14 | 25 | 22 | 22 | 22 | 16 | 9 | 9 | 7 | 25 | 16 | 16 | |
| NO. 10 | LIGHTING | POLE RISERS ONLY: A, D, G, I | | | | | | | | | | |
| | TOTAL No.10 | # | # | # | # | # | # | # | # | # | # | |
| NO. 8 | LUMINAIRES - 240V | 2 | 2 | 2 | 2 | | | | 2 | 2 | 2 | |
| | SIGNAL COMMON | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | |
| | TOTAL No. 8 | 3 | 3 | 3 | 3 | 1 | 1 | 1 | # | 3 | 3 | |
| DLC | ø1 | | | | | 1 | | | | | | |
| | ø2 | | | | | 3 | | | | 3 | 3 | |
| | ø5 | | | | | 1 | | | | | | |
| | ø6 | | | | | | | | 1 | | | |
| | ø7 | 4 | 4 | 4 | 1 | | | 1 | | 4 | | |
| | TOTAL DLC | 4 | 4 | 4 | 1 | 5 | # | 1 | # | 5 | 3 | 3 |
| CONDUIT SIZE (INCHES) | | 2.5 | 2.5 | 2.5 | 2 | 2 | 2 | 1.5 | 2 | 2.5 | 2.5 | |
| CONDUIT FILL (PERCENT) | | | | | | | | | | | | |

ALL CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

* = INSTALL NEW CONDUCTORS OR CABLE IN EXISTING CONDUIT.


| POLE AND EQUIPMENT SCHEDULE | | | | | | | | | | | | | |
|-----------------------------|----------|-----|-----|-------------------|----------------|--------------|-----------|-------------|--------|------|-------|---------------|-------------------------------------|
| No. | STANDARD | | | VEHICLE SIGNAL | | | | PED SIGNAL* | | PBA* | | LED LUMINAIRE | SPECIAL REQUIREMENTS |
| | TYPE | SMA | LMA | MAST MTG | ARM ø | POLE MTG | ø | ø | MTG | ø | ARROW | | |
| (A) | 29-5-70 | 55' | 15' | MAS | ø2 | SV-2-TB | ø2 ø7 | ø8P | SP-1-T | ø8P | <--> | 68W | |
| (B) | TYPE 1-A | - | - | - | - | SV-1 SV-1 | ø1* ø5 | - | - | ø8P | <--> | | ø2 MOUNTED AT 3', ø5 MOUNTED AT 15' |
| (C) | TYPE 1-A | - | - | - | - | TV-2-T | ø5 ø6* | ø8P ø6P | SP-2-T | ø8P | --> | | |
| (D) | 19-1-70 | 25' | 15' | MAS-4B | ø8 | SV-1-T | ø8 | - | - | ø6P | <--> | 68W | |
| (E) | TYPE 1-A | - | - | - | - | TV-2-T | ø7* ø8 | - | - | - | - | - | |
| (F) | PPB POST | - | - | - | - | - | - | - | - | ø6P | --> | | |
| (G) | 29-5-70 | 55' | 15' | MAS MAT MAS | ø1 ø7 ø6 | SV-1-T | ø6 | ø6P | SP-1-T | - | - | 68W | |
| (H) | TYPE 1-A | - | - | - | - | TV-2-T | ø1 ø2 | - | - | - | - | - | |
| (I) | 19-1-70 | 20 | 12' | MAS-4B | ø7 | SV-1-T | ø7 | - | - | - | - | 68W | |

ALL POLES AND EQUIPMENT ARE EXISTING AND TO REMAIN UNLESS OTHERWISE NOTED

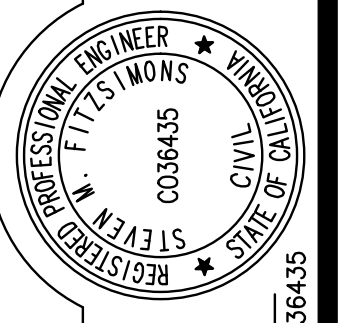
* = REMOVE AND DISPOSE OF EXISTING EQUIPMENT. FURNISH AND INSTALL NEW EQUIPMENT.

PRELIMINARY
NOT FOR CONSTRUCTION

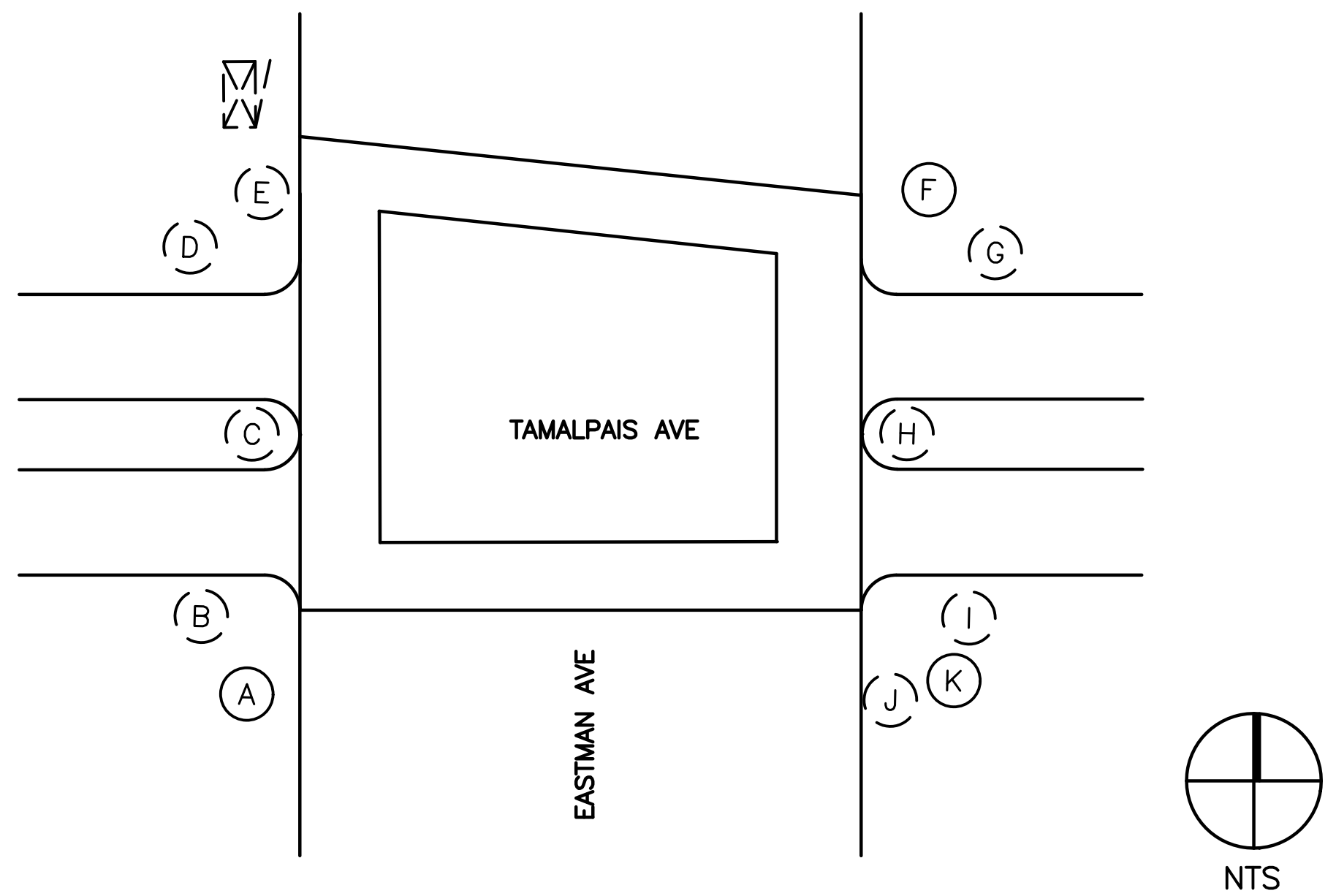
| Date | Revision | By | SCALE |
|------|----------|----|-----------------------|
| | | | N/A |
| | | | DATE 10/1/21 |
| | | | JOB NO. MAX132 |
| | | | DRAWING NUMBER E-44.2 |
| | | | 89 OF 104 |


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DESIGNED BY: SF
 CHECKED BY: DJW
 DRAWN BY: ACJ/KT
 DATE:


 REGISTERED PROFESSIONAL ENGINEER
 STEVEN M. FITZSIMONS
 008435
 CIVIL
 STATE OF CALIFORNIA

HSIP COUNTYWIDE
 TRAFFIC SIGNAL IMPROVEMENT PROJECT
 COUNTY OF MARIN - CITY OF NOVATO
 REDWOOD BLVD/SAN MARIN DR
 ELECTRICAL SCHEDULES



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|------------------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | PBA POST (NEW) | | | | EB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |
| (B) | 1-A | | TV-2-T | SP-2-T | SB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS |
| (C) | 1-A | | TV-1-T SV-1-T | | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). |
| (D) | MAP | MAS | SV-2-T | SP-2-T | SB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS |
| (E) | SLP | | | | WB | → | INSTALL NEW APS AND NEW CONDUCTORS IN EXISTING CONDUIT. |
| (F) | PBA POST (NEW) | | | | WB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONNECTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX |
| (G) | 1-A | | TV-2-T | SP-2-T | NB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS |
| (H) | 1-A | | TV-1-T SV-1-T | | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). |
| (I) | MAS | | SV-2-T | SP-2-T | NB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS |
| (J) | SLP | | | | | | EXISTING EQUIPMENT TO REMAIN |
| (K) | PBA POST (NEW) | | | | EB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS, CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL LOCATION



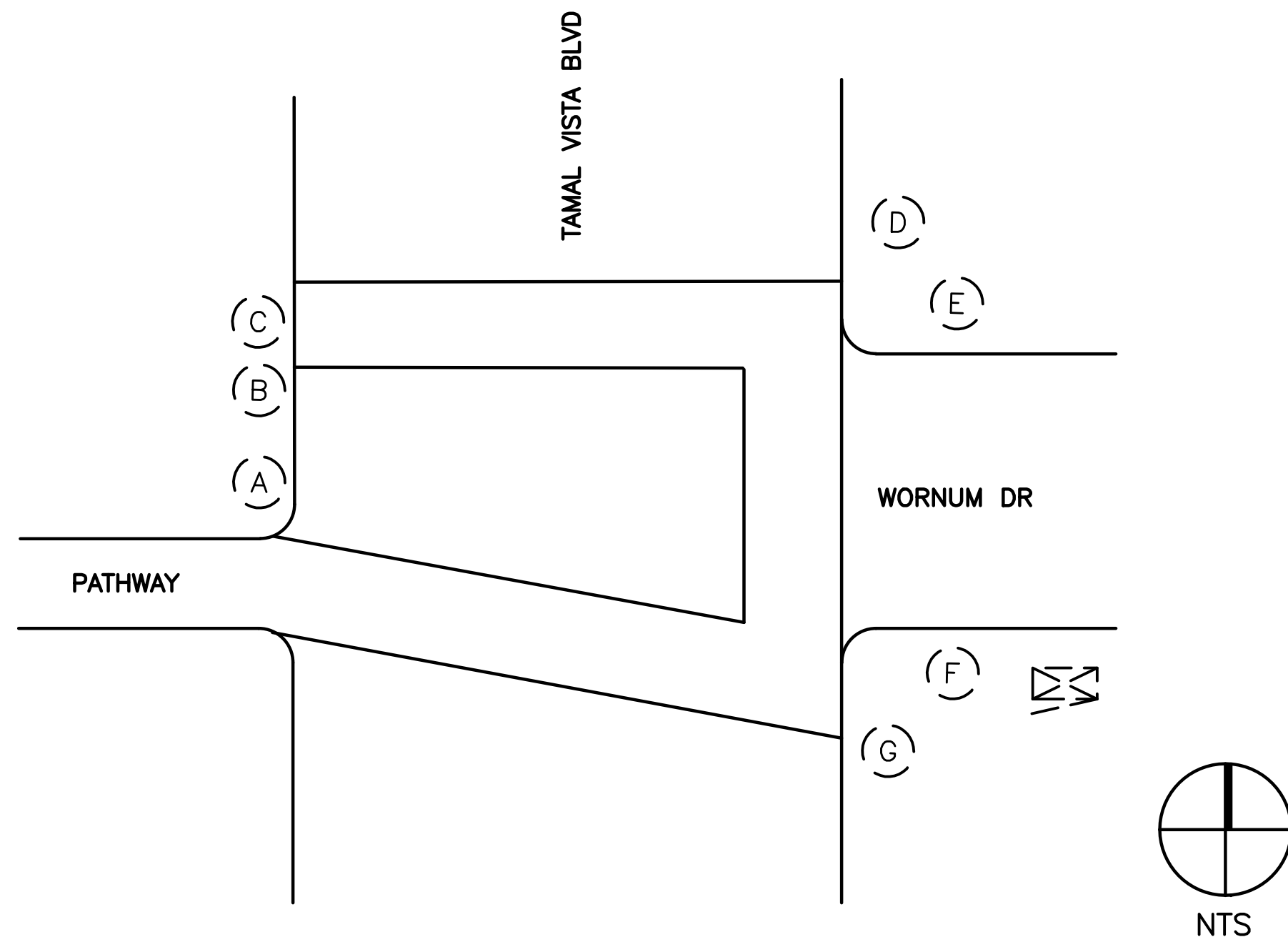
Parisi
 TRANSPORTATION CONSULTING
 1936 University Ave, Ste 250
 Berkeley CA 94704
 (510) 343-6400

DRAWN: BA, DH
 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 TAMALPAIS AVE / EASTMAN AVE ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-45 |
| | | SHEET NO. | 90 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------|----------------|--------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | MAP | MAS MAS | SV-2-T | SP-1-T | WB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (B) | MAP | MAS | SV-1-T | SP-1-T | | | EXISTING EQUIPMENT TO REMAIN |
| (C) | PBA POST | | | | WB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (D) | MAP | MAS | SV-1-T | SP-1-T | WB | ← | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (E) | 1-A | | SV-2-T | SP-1-T | NB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (F) | SLP | | | SP-1-T | NB | ← | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (G) | 1-A | | TV-2-T | SP-1-T | WB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

100% PLANS – SUPPLEMENTAL LOCATION



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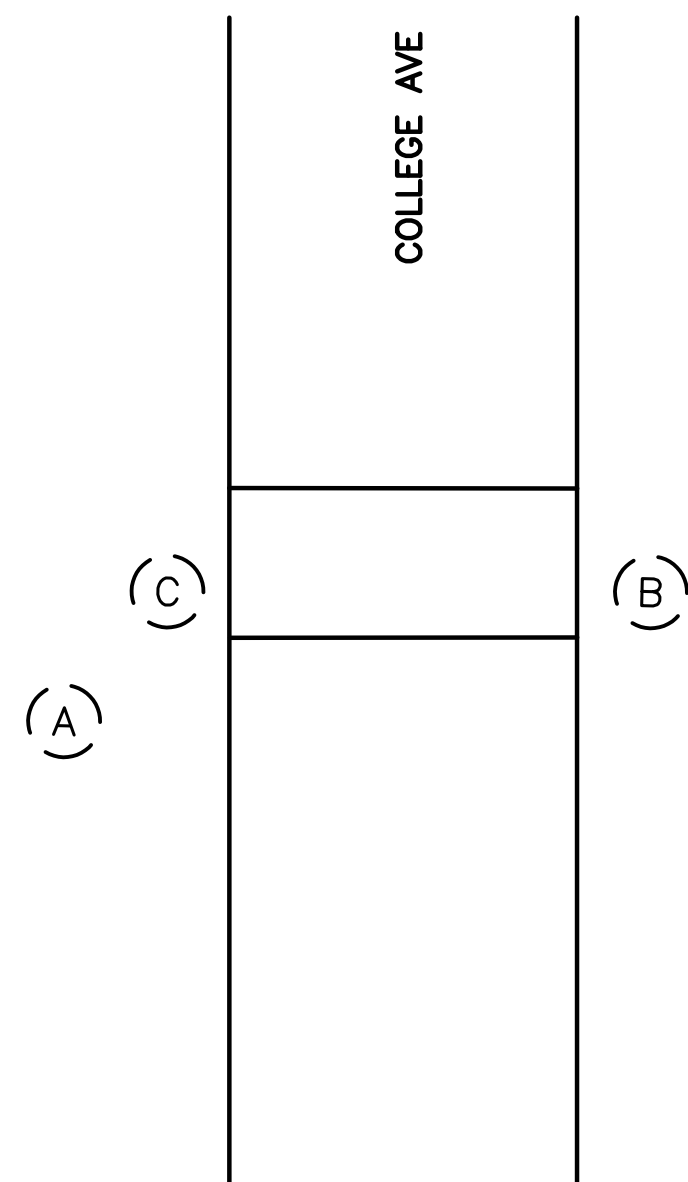
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DESIGNED: BA, EC APPROVED: DP



COUNTY OF MARIN - TOWN OF CORTE MADERA
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 TAMAL VISTA BLVD / WORNUM DR ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-46 |
| | | SHEET NO. | 91 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------|----------------|--------|------------|------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS) | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (ϕ)** | ARROW | |
| (A) | MAP | MAS MAS | SV-1-T | SP-1-T | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (3). |
| (B) | MAP | MAS MAS | SV-1-T | SP-1-T | E-W | → | REMOVE AND REINSTALL POLE-MOUNTED BEACON TO THE FRONT OF THE POLE TO ALLOW INSTALLATION OF A NEW BACKPLATE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATES (3). |
| (C) | PBA POST | | | | E-W | ← | EXIST EQUIPMENT TO REMAIN |

** DIRECTION OF CROSSING PHASE (ϕ) NOTED IN LIEU OF AS-BUILT PLANS, CROSSING PHASE ASSIGNED TO CONTROLLER (ϕ) TO BE CONFIRMED BY CONTRACTOR AS NECESSARY.

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.

100% PLANS – SUPPLEMENTAL LOCATION



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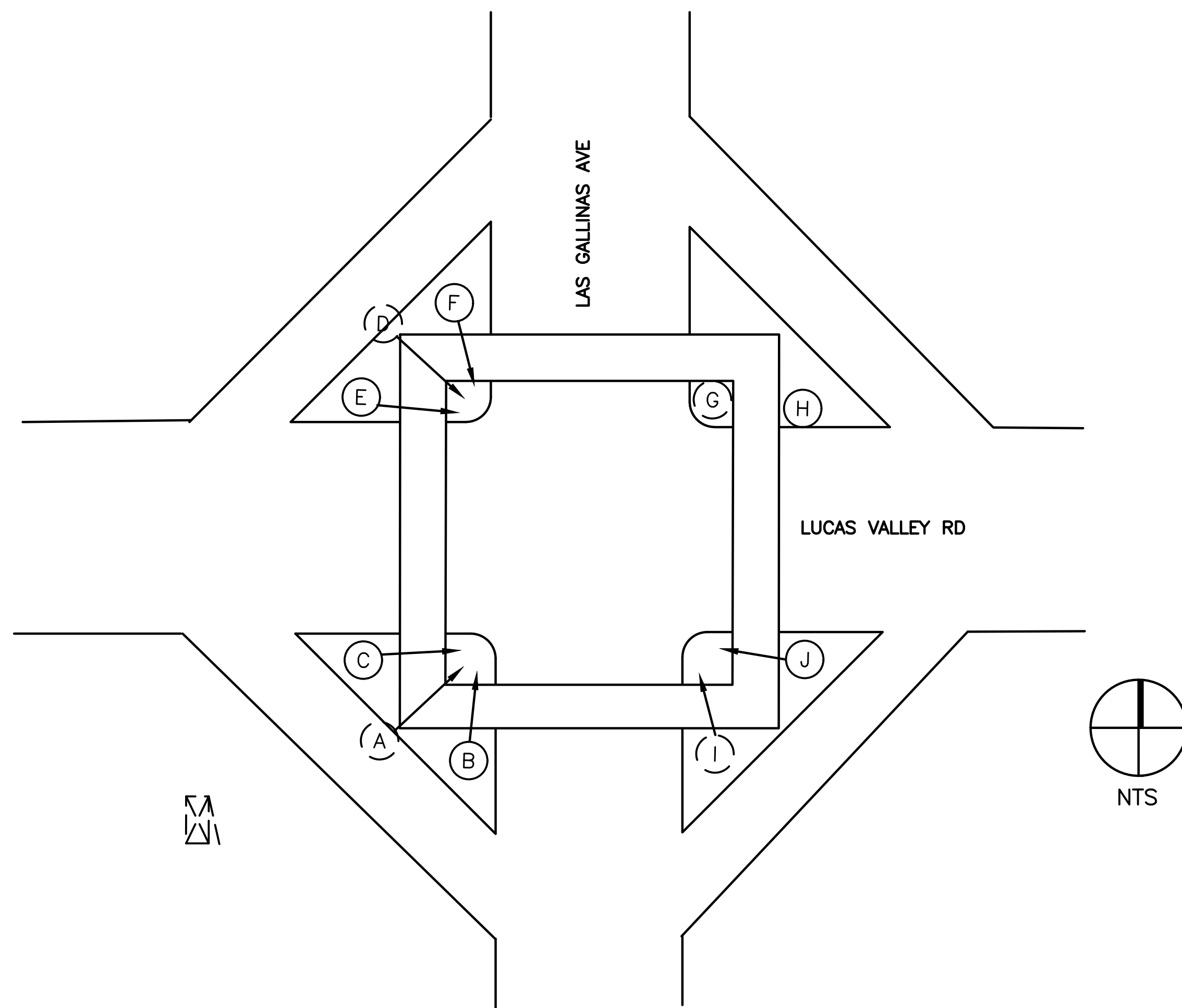
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DESIGNED: BA, EC APPROVED: DP



COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
COLLEGE AVE / XING AT CORTE MADERA CREEK ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-47 |
| | | SHEET NO. | 92 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | SPECIAL REQUIREMENTS |
|-----------------------------|----------------|----------------|--------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | MAP | MAS MAS | SV-3-T | SP-2-T | | | INSTALL RELFECTIVE TAPE ONTO Exist BACKPLATE (5). REMOVE Exist PPB AND COVER HOLE. |
| (B) | PBA POST (NEW) | | | | EB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |
| (C) | PBA POST (NEW) | | | | SB | ← | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |
| (D) | MAP | MAS MAS | SV-3-T | SP-2-T | | | INSTALL RELFECTIVE TAPE ONTO Exist BACKPLATE (5). REMOVE Exist PPB AND COVER HOLE. |
| (E) | PBA POST (NEW) | | | | SB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |
| (F) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |
| (G) | MAP | MAS MAS | SV-3-T | SP-2-T | WB | → | INSTALL RELFECTIVE TAPE ONTO Exist BACKPLATE (3). REMOVE Exist PPB AND REPLACE WITH NEW APS. |
| (H) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |
| (I) | MAP | MAS MAS | SV-3-T | SP-2-T | EB | ← | INSTALL RELFECTIVE TAPE ONTO Exist BACKPLATE (3). REMOVE Exist PPB AND REPLACE WITH NEW APS. |
| (J) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

100% PLANS – SUPPLEMENTAL & ADD ALTERNATE LOCATION



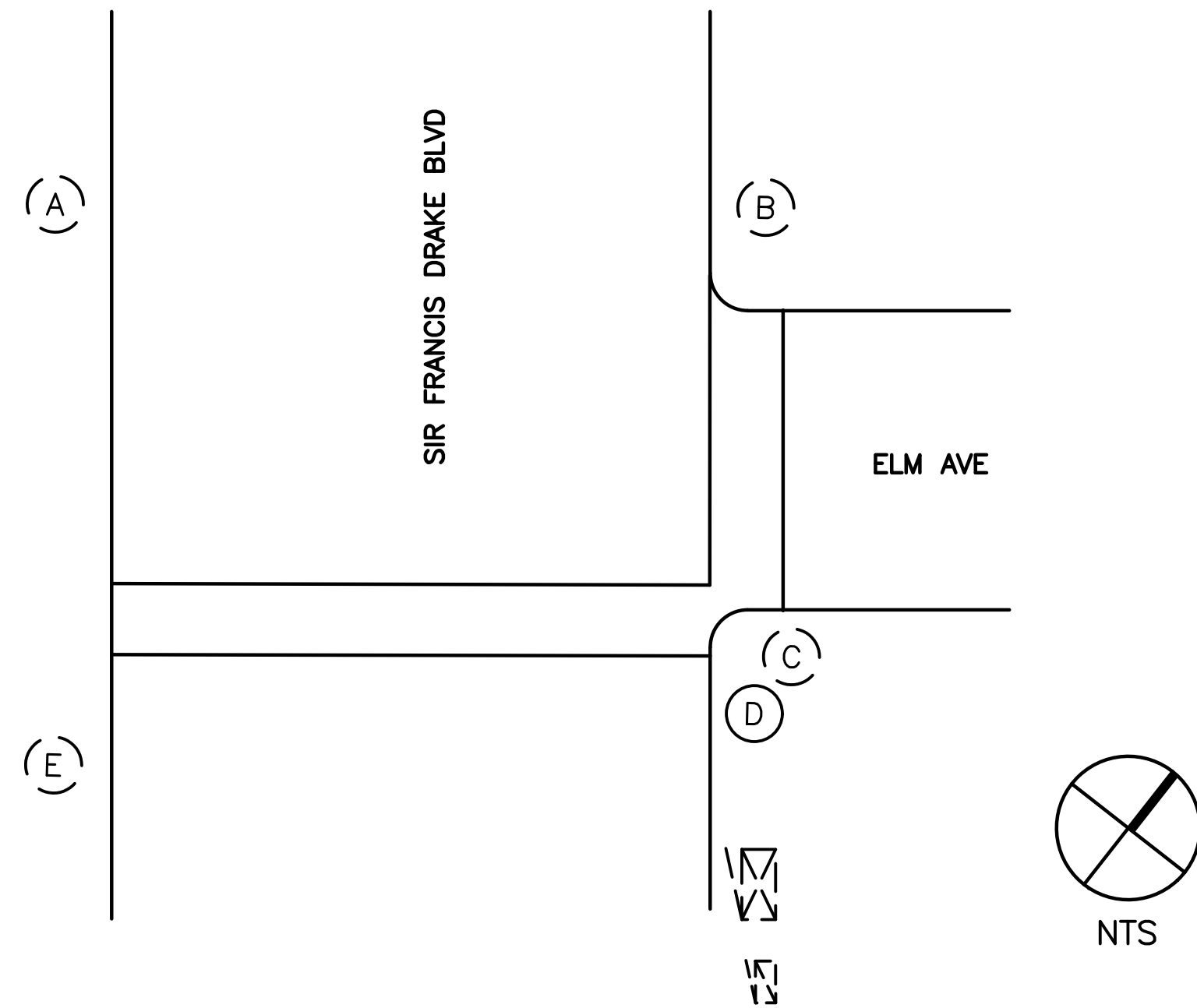
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 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 LUCAS VALLEY RD / LAS GALLINAS AVE ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-48(AA) |
| | | SHEET NO. | 93 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|------------------|------------|------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS) | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | 1-A | | TV-2-T | SP-1-T | | | EXISTING EQUIPMENT TO REMAIN |
| (B) | MAP | MAS | SV-1-T SV-2-T | SP-2-T | NB | → | EXISTING EQUIPMENT TO REMAIN |
| (C) | 1-A | | TV-2-T | | NB | ← | REMOVE APS SERVICING XWALK CROSSING SIR FRANCIS DRAKE BLVD AND RELOCATE TO NEW PBA POST. |
| (D) | PBA POST (NEW) | | | | WB | ← | INSTALL RELOCATED APS FROM POLE C |
| (E) | MAP | MAS | SV-2-TD | SP-1-T | WB | → | EXISTING EQUIPMENT TO REMAIN |

** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

1. SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.

100% PLANS — SUPPLEMENTAL LOCATION



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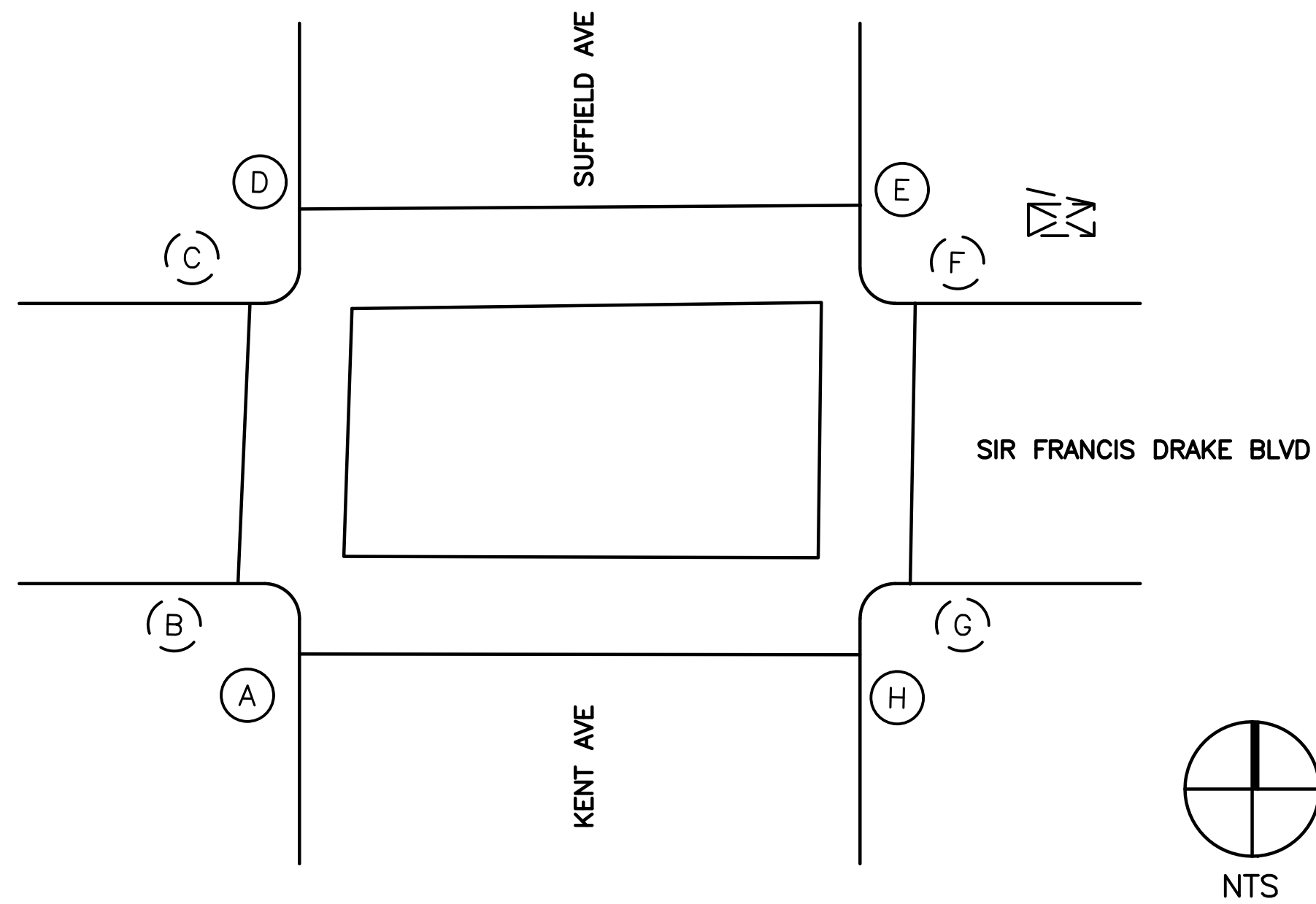
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COUNTY OF MARIN
HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
SIR FRANCIS DRAKE BLVD / ELM AVE ELECTRICAL SCHEDULE

| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-49 |
| | | SHEET NO. | 94 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------------|--------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | PBA POST (NEW) | | | | EB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (B) | 1-A | | TV-2-T | SP-2-T (NEW) | SB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE CROSSING KENT AVE. INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (C) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | SB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE CROSSING SUFFIELD AVE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (D) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (E) | PBA POST (NEW) | | | | WB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (F) | 1-A | | TV-2-T (NEW) | SP-2-T (NEW) | NB | → | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE CROSSING SUFFIELD AVE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (G) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | NB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE CROSSING KENT AVE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (H) | PBA POST (NEW) | | | | EB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- INSTALL NEW CONDUIT, CONDUCTORS AND PULL BOXES TO SERVICE NEW PED SIGNALS AND APS TO SERVICE XWALKS CROSSING KENT AVE & SUFFIELD AVE. INSTALL PEDESTRIAN PHASE LOAD SWITCHES IN THE CONTROLLER CABINET, CONNECT TO EXISTING SIGNAL CONTROLLER AND PROGRAM THE PEDESTRIAN CROSSING PHASES. TIMING SHEETS TO BE PROVIDED BY THE TOWN. CONTRACTOR MAY REUSE CONDUIT AND SPARE CONDUCTORS IF CAPACITY EXISTS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL & ADD ALTERNATE LOCATION



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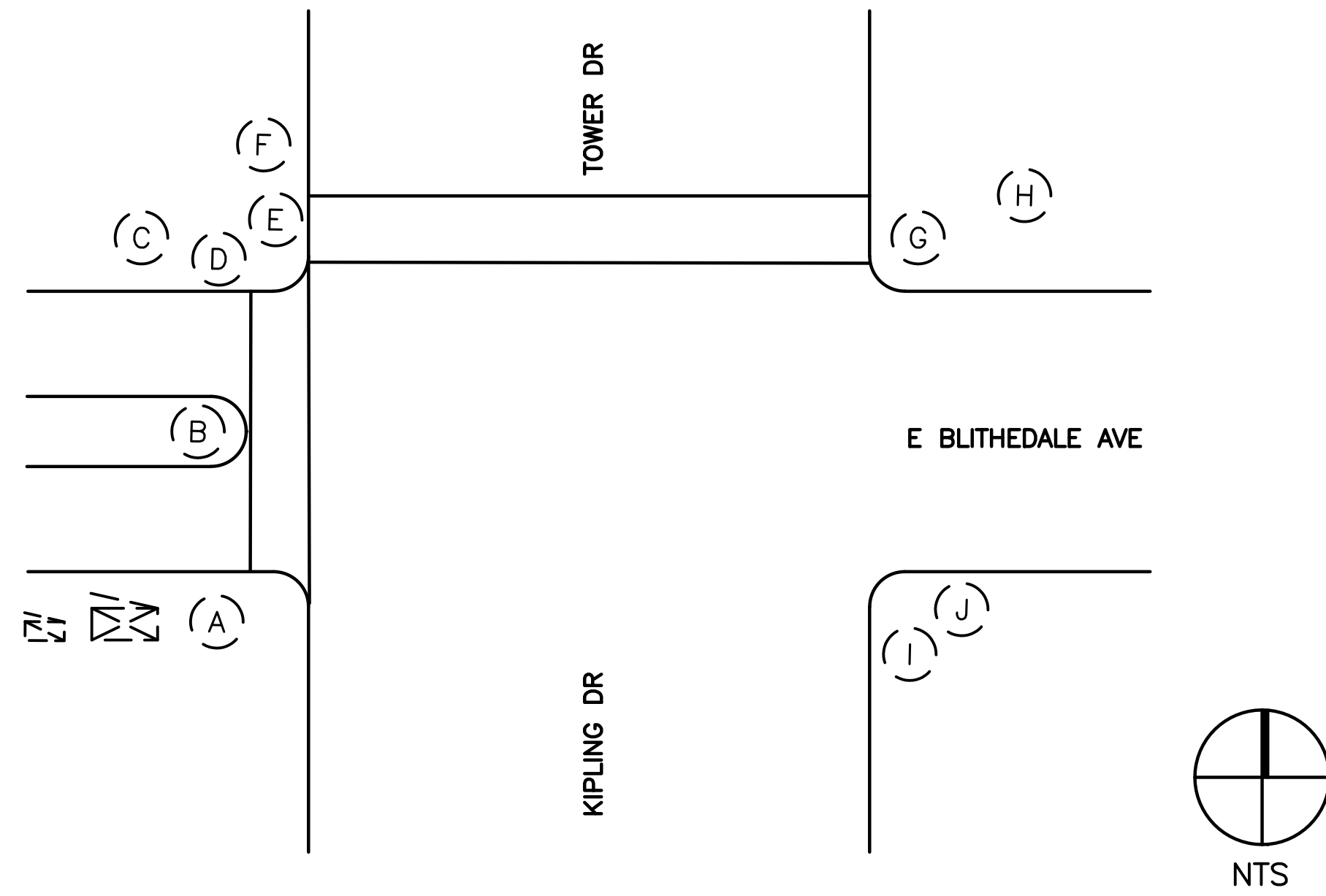
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COUNTY OF MARIN - TOWN OF FAIRFAX
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 SIR FRANCIS DRAKE BLVD / SUFFIELD AVE / KENT AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-50(AA) |
| | | SHEET NO. | 95 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------|-------------------|--------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (Ø)** | ARROW | |
| (A) | 15 | | SV-3-T | SP-1-T | SB | → | INSTALL REFLECTIVE TAPE ONTO Exist BACKPLATE (3). |
| (B) | PBA POST | | | | SB | ↔ | REMOVE Exist PPB AND REPLACE WITH NEW APS |
| (C) | MAP | MAS MAS MAS | SV-1-T | SP-1-T | | | REMOVE SIGNAL HEAD FACING EB BLITHEDALE ON MAST ARM. INSTALL REFLECTIVE TAPE ONTO REMAINING Exist BACKPLATE (3). |
| (D) | PBA POST | | | | SB | ← | REMOVE Exist PPB AND REPLACE WITH NEW APS |
| (E) | PBA POST | | | | WB | → | REMOVE Exist PPB AND REPLACE WITH NEW APS |
| (F) | 1A | | TV-1-T | SP-1-T | | | INSTALL REFLECTIVE TAPE ONTO Exist BACKPLATE (1). |
| (G) | PBA POST | | | | WB | ← | REMOVE Exist PPB AND REPLACE WITH NEW APS |
| (H) | MAP | MAS | SV-2-T | SP-1-T | | | INSTALL REFLECTIVE TAPE ONTO Exist BACKPLATE (3). |
| (I) | 1A | | TV-3-T | | | | INSTALL REFLECTIVE TAPE ONTO Exist BACKPLATE (3). |
| (J) | MAP | MAS MAS | | | | | INSTALL REFLECTIVE TAPE ONTO Exist BACKPLATE (2). |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (Ø) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

100% PLANS – SUPPLEMENTAL LOCATION



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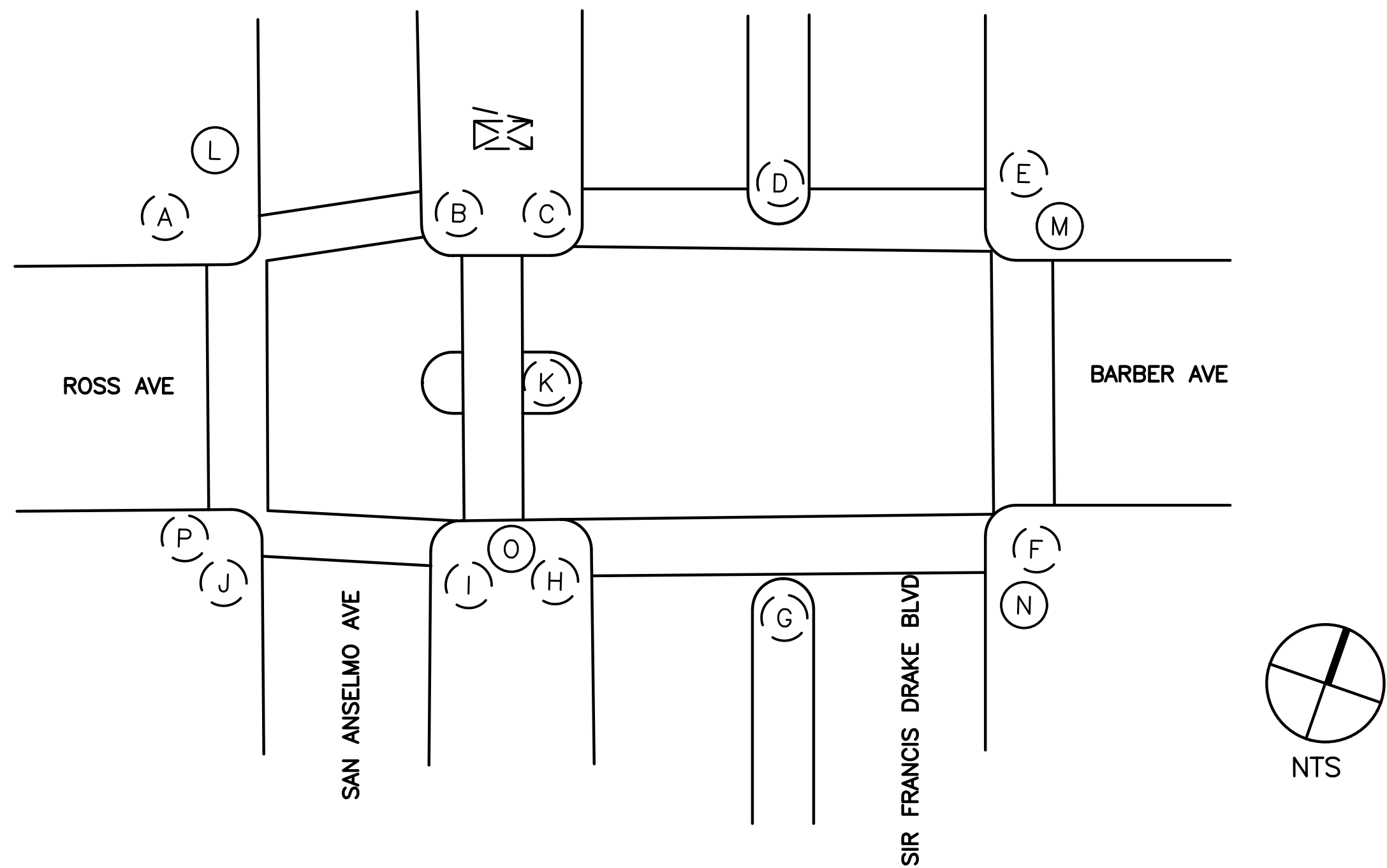
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 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF MILL VALLEY
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 E. BLITHEDALE AVE / KIPLING DR / TOWER DR ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-51 |
| | | SHEET NO. | 96 OF 104 |



| LOCATION | EQUIPMENT AND POLE SCHEDULE | | | | | | SPECIAL REQUIREMENTS |
|----------|-----------------------------|----------------|------------------------|-------------------|-------------------------------------|--------|--|
| | STANDARD TYPE | VEHICLE SIGNAL | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | |
| | | MAST ARM | POLE | | PHASE (φ)** | ARROW | |
| (A) | 1-A | | TV-1-T SV-1-T (NEW) | SP-2-T | SB | → | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (B) | 1-A | | TV-2-T | SP-2-T | SB WB | ← → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS (2). |
| (C) | 1-A | | TV-2-T | SP-1-T | WB | → | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (D) | 1-A | | TV-1-T | | WB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (E) | MAP | MAS | SV-1-T SV-1-T (NEW) | SP-2-T | WB | → | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (F) | 1-A | | TV-1-T SV-1-T (NEW) | SP-2-T | NB | → | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (G) | 1-A | | TV-1-T | | EB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (H) | MAP | MAS | SV-1-T (NEW) | SP-2-T | EB | ← | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (I) | 1-A | | TV-2-T (NEW) | SP-2-T | EB | ← | REPLACE EXIST 3S8" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ON NEW BACKPLATES (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (J) | 1-A | | TV-1-T SV-1-T (NEW) | | EB | ← | INSTALL EXIST 3S8" WITH 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (1). INSTALL REFLECTIVE TAPE ONTO EXISTING AND NEW BACKPLATES (2). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (K) | 1-A | | TV-3-T SV-1-T | | SB | → | INSTALL REFLECTIVE TAPE ONTO EXISTING AND NEW BACKPLATES (3). |
| (L) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |
| (M) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |
| (N) | PBA POST (NEW) | | | | EB | ← | INSTALL NEW PBA POST, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |
| (O) | PBA POST (NEW) | | | | SB | → | INSTALL NEW PBA POST, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |
| (P) | PBA POST (NEW) | | | | SB | → | INSTALL NEW PBA POST, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULLBOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- REMOVE ALL EXIST AUDIBLE SIGNALS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL LOCATION



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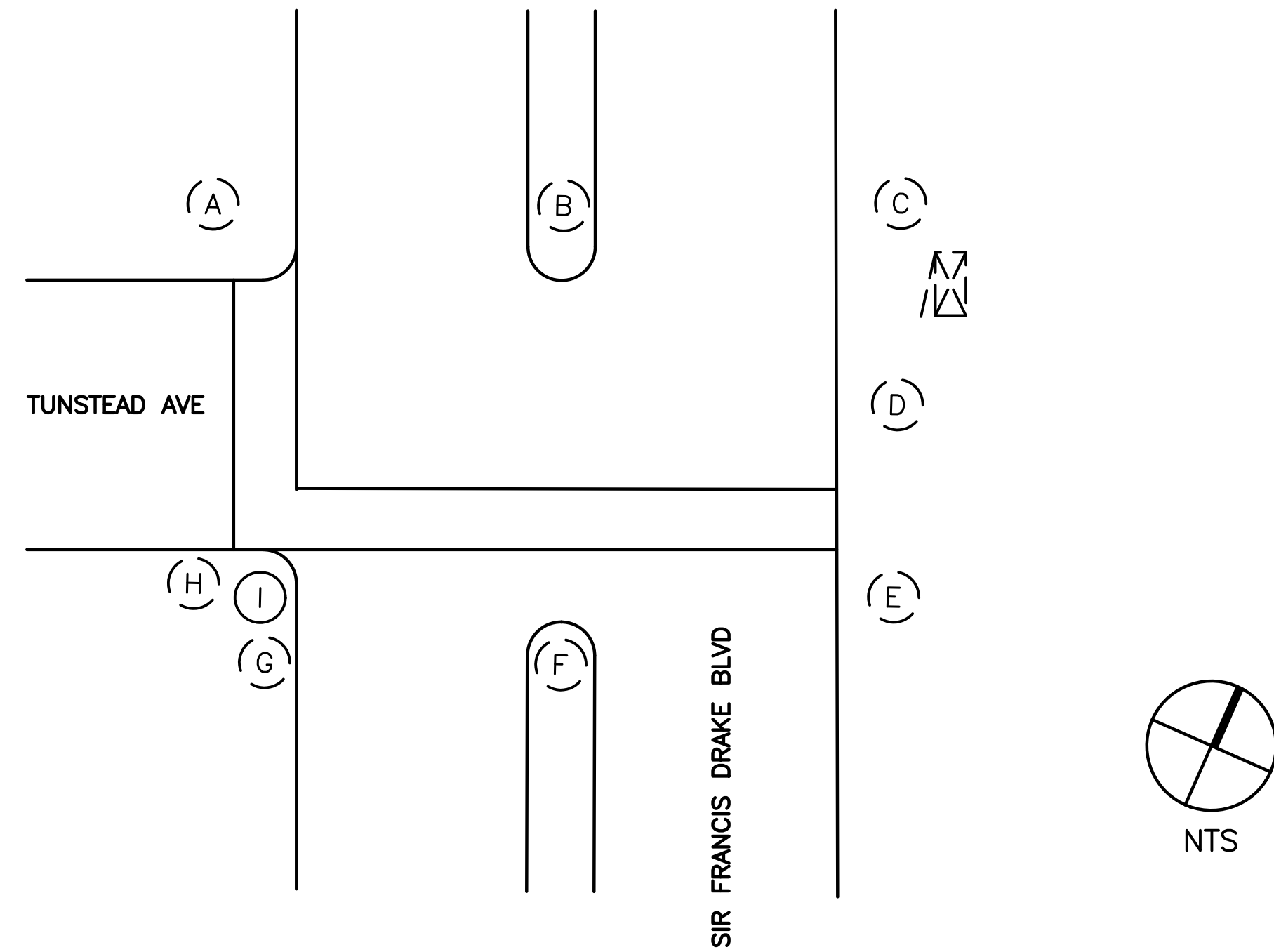
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COUNTY OF MARIN - TOWN OF SAN ANSELMO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 SIR FRANCIS DRAKE BLVD / BARBER AVE / ROSS AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-52 |
| | | SHEET NO. | 97 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | 1-A | | TV-1-T (NEW) | SP-1-T | SB | ← | REPLACE EXIST 3S8" WITH NEW 3S12' AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE (1). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (B) | 1-A | | TV-1-T | | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). |
| (C) | MAP | MAS | SV-2-T (NEW) | | | | REPLACE EXIST 3S8" WITH NEW 3S12' AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE (1). REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (D) | 1-A | | TV-1-T | | | | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO NEW BACKPLATE (1). |
| (E) | 1-A | | | TP-1-T | EB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (F) | PPB POST | | | | EB | ↔ | EXISTING PPB TO REMAIN IN PLACE |
| (G) | MAP | MAS | SV-1-T (NEW) | SP-1-T | | | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE. INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). REMOVE EXIST PPB AND COVER HOLE. |
| (H) | 1-A | | TV-1-T | SP-1-T | SB | → | REMOVE EXIST PPB AND REPLACE WITH NEW APS. |
| (I) | PBA POST (NEW) | | | | EB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL LOCATION



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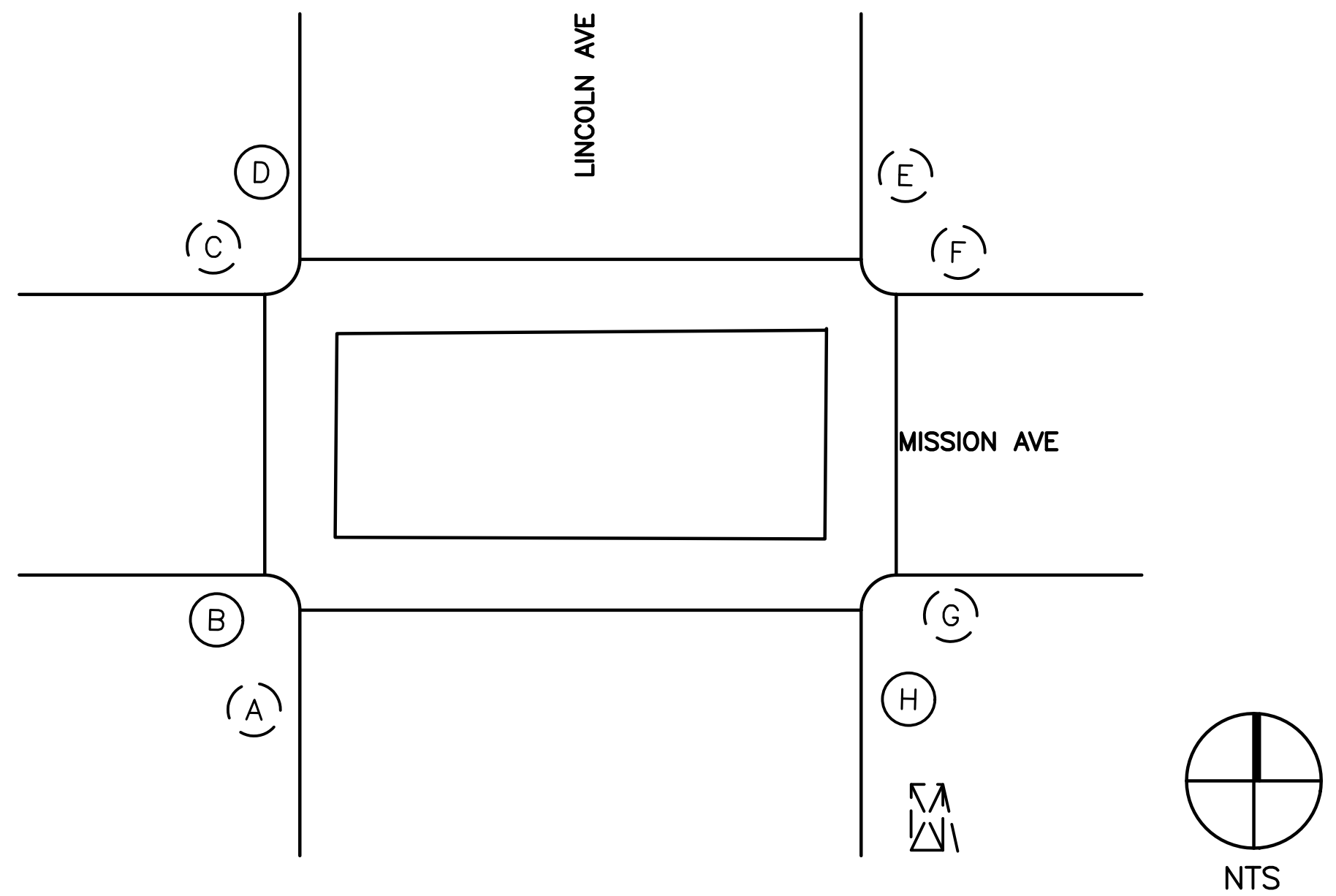
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 APPROVED: DP



COUNTY OF MARIN - TOWN OF SAN ANSELMO
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 SIR FRANCIS DRAKE BLVD / TUNSTEAD AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-53 |
| | | SHEET NO. | 98 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------|------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | MAP | MAS | SV-2-T | SP-2-T | WB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (3). INSTALL NEW APS. |
| (B) | PBA POST (NEW) | | | | SB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (C) | SLP | | SV-2-T | SP-2-T | SB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (D) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (E) | 1-A | | TV-2-T | SP-2-T | WB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (F) | 15 | | | | NB | → | INSTALL APS ON EXIST TYPE 15 POLE. INSTALL CONDUIT BETWEEN NEAREST TRAFFIC SIGNAL PULL BOX AND STREET LIGHTING PULL BOX. INSTALL APS CONDUCTORS TO LIGHTING STANDARD AND CONNECT TO TRAFFIC SIGNAL CONDUCTORS.. |
| (G) | MAP | MAS-5A | SV-2-T | SP-2-T | NB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (3). INSTALL NEW APS. |
| (H) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. CONNECT CONDUIT AND CONDUCTORS TO THE NEAREST PULL BOX. |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

1. SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
3. INSTALL NEW CONDUCTORS TO SERVICE NEW APS. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

100% PLANS — SUPPLEMENTAL LOCATION



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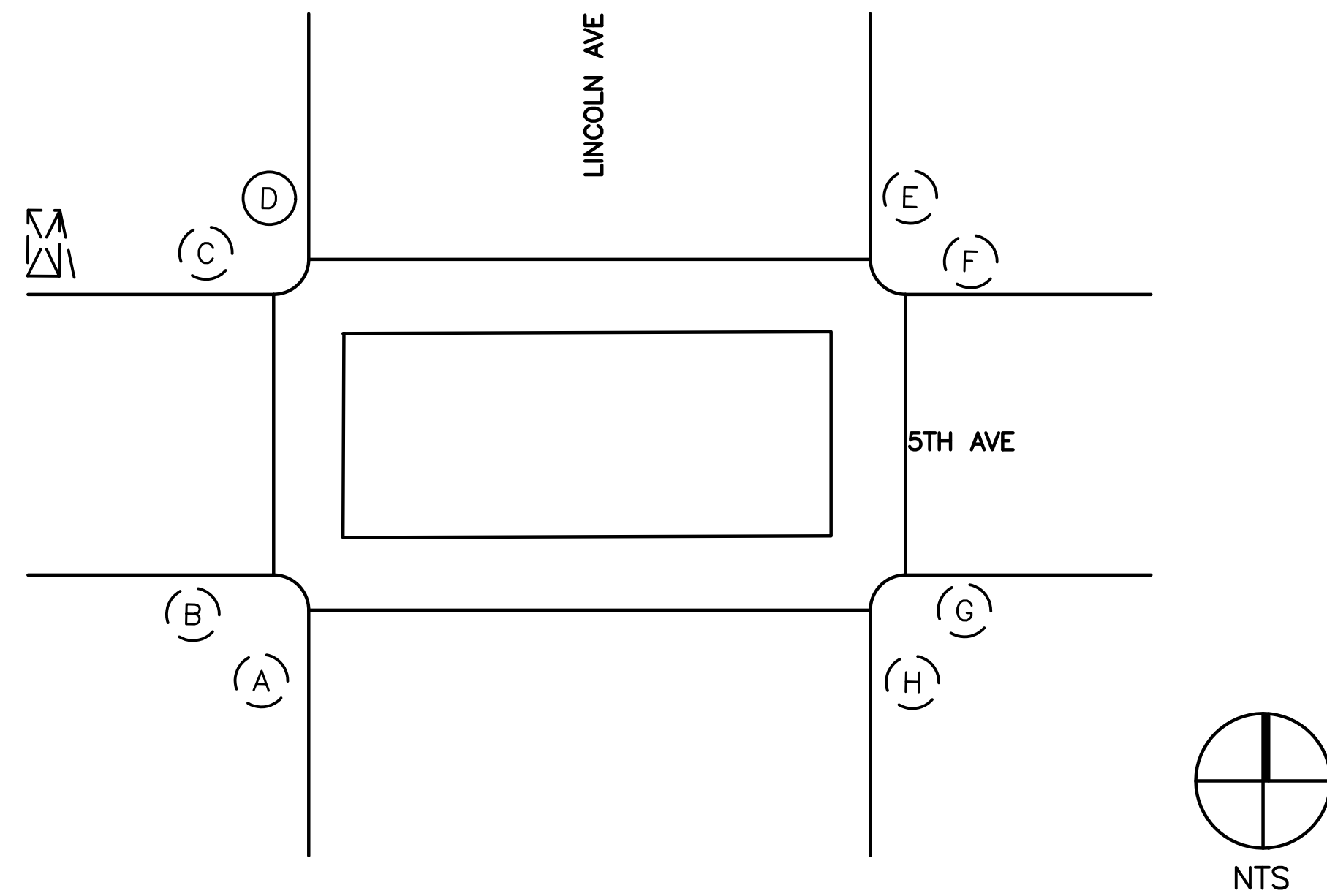
DRAWN: BA, DH
 CHECKED: AL
 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 MISSION AVE / LINCOLN AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|-----------|
| | | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-54 |
| | | SHEET NO. | 99 OF 104 |
| NO. | DESCRIPTION | | |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | MAP | MAS | SV-1-T | SP-1-T | EB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (B) | 1-A | | TV-2-T | SP-1-T | SB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (C) | 1-A | | TV-2-T | SP-1-T | SB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (D) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (E) | MAP | MAS | SV-1-T | SP-1-T | WB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (F) | 1-A | | TV-2-T | SP-1-T | NB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (G) | 1-A | | TV-2-T | SP-1-T | NB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). INSTALL NEW APS. |
| (H) | 1-A | | TV-2-T | SP-1-T | EB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). INSTALL NEW APS. |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

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- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
- INSTALL NEW CONDUCTORS TO SERVICE NEW APS. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

100% PLANS – SUPPLEMENTAL LOCATION



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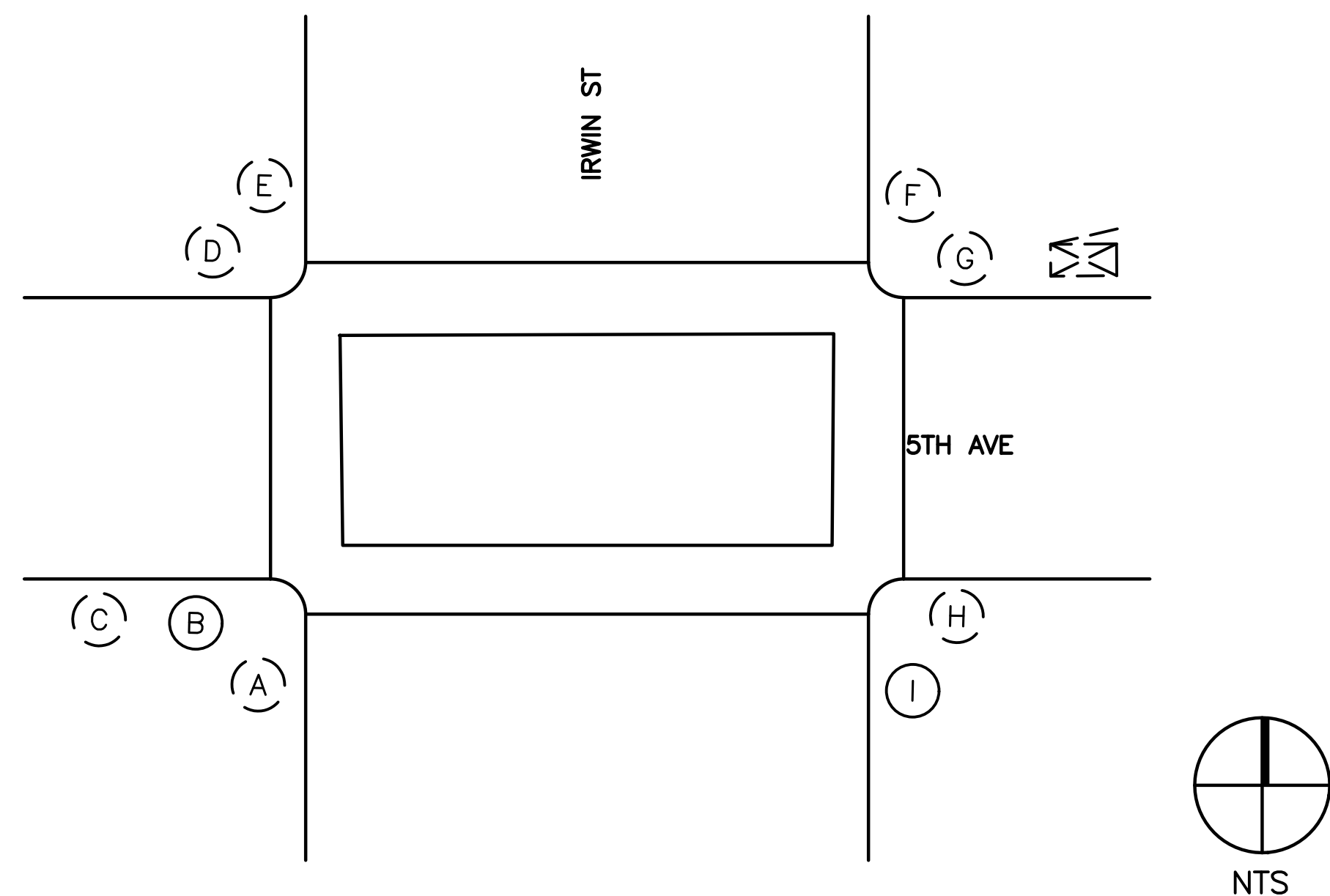
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APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 5TH AVE / LINCOLN AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|------------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-55 |
| | | SHEET NO. | 100 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------|------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (ø)** | ARROW | |
| (A) | 15 | | | SP-1-T | EB | ← | INSTALL NEW APS. |
| (B) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, CONDUIT AND CONDUCTORS. |
| (C) | 1-A | | TV-2-T | SP-1-T | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). |
| (D) | 1-A | | TV-1-T | SP-1-T | NB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (E) | 1-A | | TV-1-T | SP-1-T | WB | → | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (F) | MAP | MAS | SV-1-T | SP-1-T | WB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). INSTALL NEW APS. |
| (G) | 1-A | | | SP-1-T | NB | → | INSTALL NEW APS. |
| (H) | MAP | MAS | SV-1-T | TV-2-T | NB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). INSTALL NEW APS. |
| (I) | PBA POST (NEW) | | | SP-1-T | EB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (ø) TO BE CONFIRMED BY CONTRACTOR,

GENERAL NOTES (THIS SHEET ONLY)

1. SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
2. LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS.
3. INSTALL NEW CONDUCTORS TO SERVICE NEW APS. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
4. LOCATION IS SUBJECT TO CALTRANS ENCROACHMENT PERMIT.

100% PLANS – SUPPLEMENTAL LOCATION



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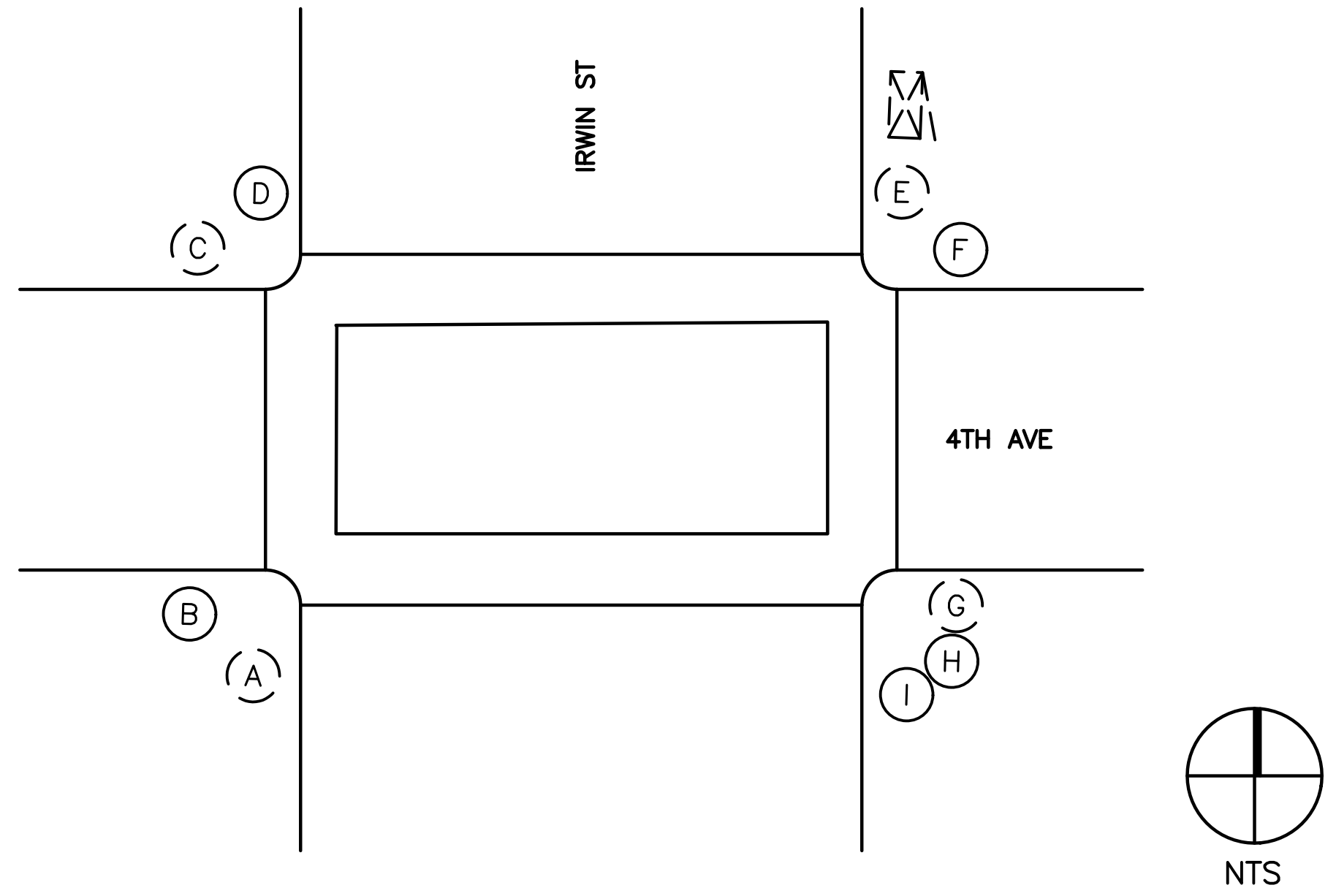
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 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 FIFTH AVE / IRWIN ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------------|-------|
| | | 10/01/2021 | N/A |
| | | PTC PROJECT NO. 20036 | |
| | | DRAWING E-56 | |
| | | SHEET NO. 101 OF 104 | |
| NO. | DESCRIPTION | | |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|----------------|----------------|--------------|------------|-------------------------------------|-------|---|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | 1-A | | TV-1-T | SP-2-T | EB | ← | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (1). INSTALL NEW APS. |
| (B) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (C) | MAP | MAS | SV-2-T (NEW) | SP-2-T | NB | ← | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS |
| (D) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (E) | MAP | MAS | SV-2-T (NEW) | SP-2-T | WB | ← | REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS |
| (F) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (G) | MAP | MAS | SV-2-T (NEW) | SP-2-T | | | INSTALL REFLECTIVE TAPE ONTO EXIST BACKPLATE (2). |
| (H) | PBA POST (NEW) | | | | NB | ← | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (I) | PBA POST (NEW) | | | | EB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS
- INSTALL NEW CONDUCTORS TO SERVICE NEW APS. INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.
- LOCATION IS SUBJECT TO CALTRANS ENCROACHMENT PERMIT.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL LOCATION



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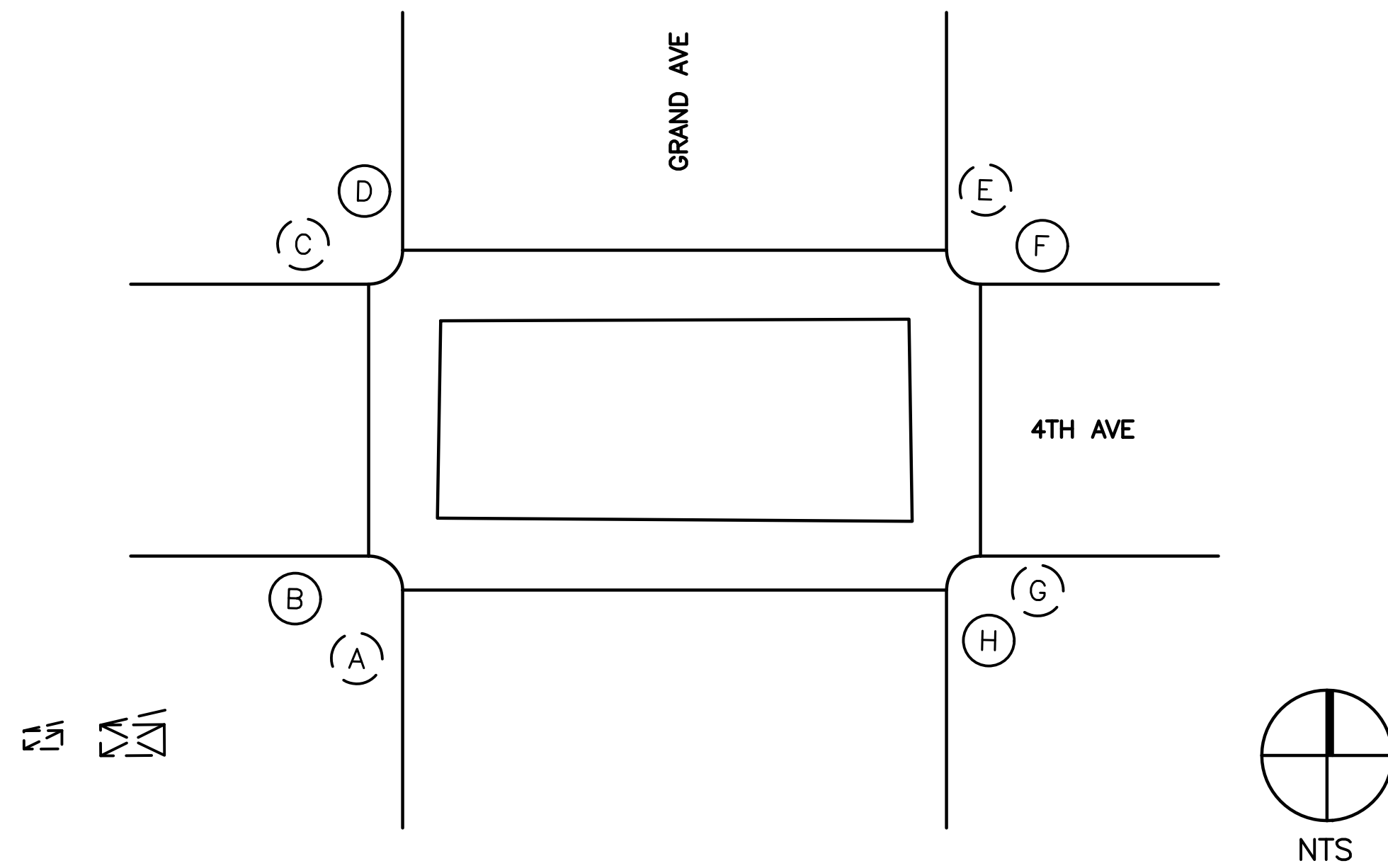
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APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 4TH STREET / IRWIN ST ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|------------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-57 |
| | | SHEET NO. | 102 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | SPECIAL REQUIREMENTS |
|-----------------------------|----------------|----------------|--------------|--------------|-------------------------------------|-------|--|
| LOCATION | STANDARD | VEHICLE SIGNAL | | PED SIGNAL | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | |
| | TYPE | MAST ARM | POLE | MOUNT. | PHASE (φ)** | ARROW | |
| (A) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | EB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS. |
| (B) | PBA POST (NEW) | | | | SB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (C) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | SB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS. |
| (D) | PBA POST (NEW) | | | | WB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (E) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | WB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS. |
| (F) | PBA POST (NEW) | | | | NB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |
| (G) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | NB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (2) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL REFLECTIVE TAPE ONTO EXIST AND NEW BACKPLATE (3). INSTALL NEW APS. |
| (H) | PBA POST (NEW) | | | | EB | → | INSTALL NEW PBA POST, APS, PULLBOX, CONDUIT AND CONDUCTORS. CONNECT TO CONDUIT AND CONDUCTORS IN THE NEAREST PULL BOX. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS
- INSTALL NEW CONDUIT, CONDUCTORS AND PULL BOXES TO SERVICE NEW PED SIGNALS AND APS TO SERVICE XWALKS CROSSING GRAND AVE. INSTALL PEDESTRIAN PHASE LOAD SWITCHES IN THE CONTROLLER CABINET, CONNECT TO EXISTING SIGNAL CONTROLLER AND PROGRAM THE PEDESTRIAN CROSSING PHASES. TIMING SHEETS TO BE PROVIDED BY THE CITY. CONTRACTOR MAY REUSE CONDUIT AND SPARE CONDUCTORS IF CAPACITY EXISTS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (φ) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL & ADD ALTERNATE LOCATION



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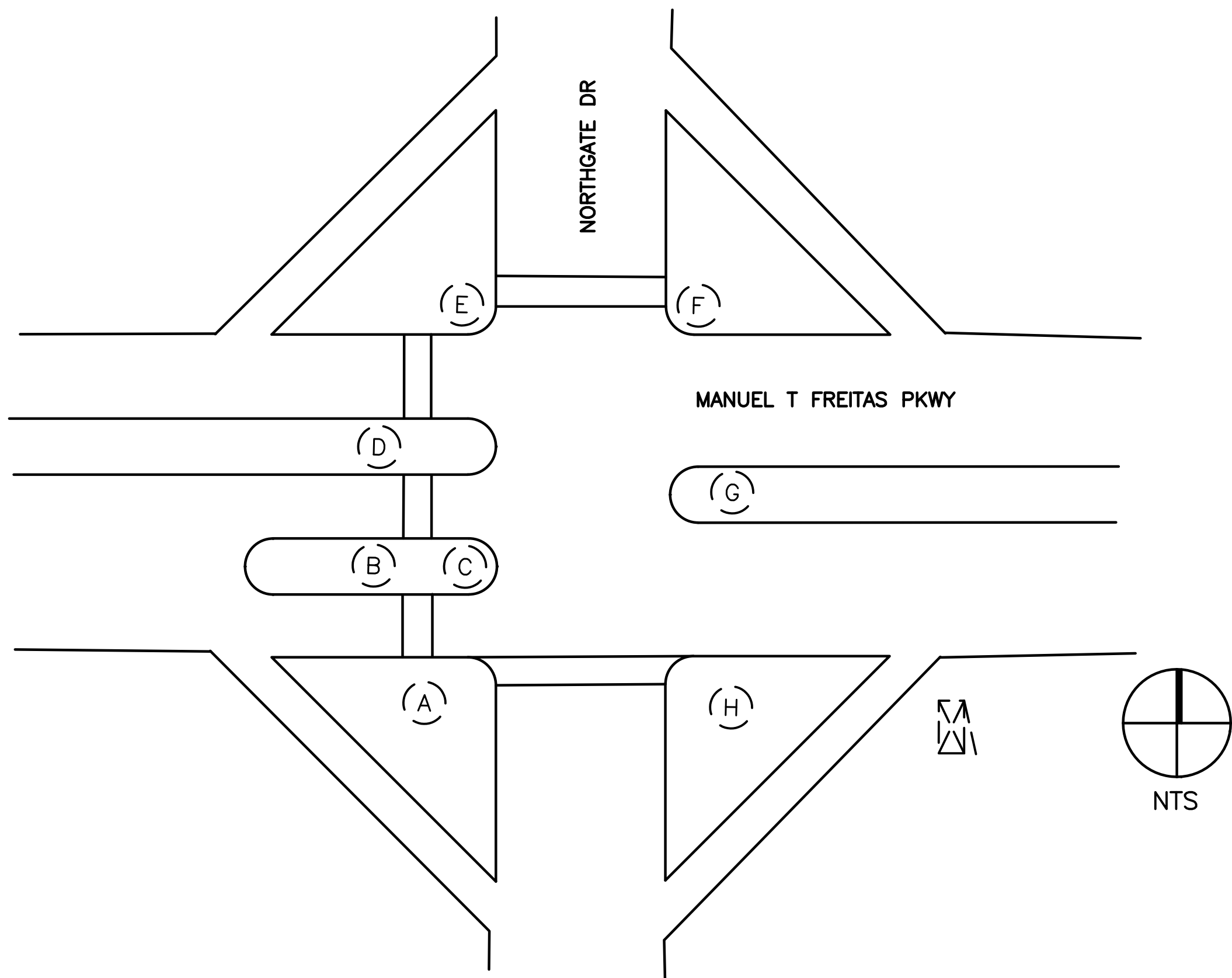
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 DESIGNED: BA, EC
 APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 4TH STREET / GRAND AVE ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|------------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-58(AA) |
| | | SHEET NO. | 103 OF 104 |



| EQUIPMENT AND POLE SCHEDULE | | | | | | | |
|-----------------------------|---------------|----------------|------------------|-------------------|-------------------------------------|-------|--|
| LOCATION | STANDARD TYPE | VEHICLE SIGNAL | | PED SIGNAL MOUNT. | ACCESSIBLE PEDESTRIAN SIGNAL (APS)* | | SPECIAL REQUIREMENTS |
| | | MAST ARM | POLE | | PHASE (ø)** | ARROW | |
| (A) | 1-A | | TV-3-T | SP-2-T (NEW) | SB | ← → | INSTALL NEW COUNTDOWN PED SIGNAL AND REINSTALL Exist PED HEAD ON NEW MOUNTING HARDWARE; INSTALL CONDUCTORS TO SERVICE NEW PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (3). INSTALL RELFECTIVE TAPE ONTO NEW BACKPLATE (3). REMOVE Exist PPB AND INSTALL NEW APS (2). |
| (B) | PBA POST | | | | SB | ← → | REPLACE Exist PPB WITH NEW APS ON Exist PBA POST. |
| (C) | SLP | | SV-2-T SV-1-T | SP-1-T | | | INSTALL RELFECTIVE TAPE ONTO NEW BACKPLATE (3). |
| (D) | PBA POST | | | | SB | ← → | REPLACE Exist PPB WITH NEW APS ON Exist PBA POST. |
| (E) | MAP | MAS | SV-2-T (NEW) | SP-2-T (NEW) | SB WB | ← → | INSTALL NEW COUNTDOWN PED SIGNAL (2) AND REINSTALL Exist PED HEAD ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE NEW PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL RELFECTIVE TAPE ONTO Exist AND NEW BACKPLATE (3). REMOVE Exist PPB AND INSTALL NEW APS (2). |
| (F) | SLP | | SV-3-T (NEW) | SP-1-T (NEW) | WB | → | INSTALL NEW COUNTDOWN PED SIGNAL ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE NEW PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (3). INSTALL RELFECTIVE TAPE ONTO NEW BACKPLATE (3). INSTALL NEW APS. |
| (G) | 1-A | | TV-1-T SV-1-T | | | | INSTALL RELFECTIVE TAPE ONTO EXIST BACKPLATE (3). |
| (H) | MAP | MAS | SV-1-T | SP-1-T (NEW) | EB | ← | INSTALL NEW COUNTDOWN PED SIGNAL (1) ON NEW MOUNTING HARDWARE. INSTALL CONDUCTORS TO SERVICE NEW PED PHASE. REPLACE EXIST 3S8" WITH NEW 3S12" AND BACKPLATE ON NEW MOUNTING HARDWARE (2). INSTALL RELFECTIVE TAPE ONTO Exist AND NEW BACKPLATE (3). INSTALL NEW APS. |

GENERAL NOTES (THIS SHEET ONLY)

- SUPPLEMENTAL LOCATION ADDED WITH HSIP GRANT SCOPE CHANGE. PLANS INDICATE POLE LOCATION ONLY. SEE EQUIPMENT SCHEDULE FOR IMPROVEMENTS.
- LOCATIONS OF NEW POLES ARE SCHEMATIC AND SHALL BE CONFIRMED BY THE ENGINEER AND POTHOLED BY THE CONTRACTOR PRIOR TO DEMOLITION AND CONSTRUCTION. ALL WORK TO OCCUR WITHIN THE BOUNDS OF THE EXISTING SIDEWALKS
- INSTALL NEW CONDUIT, CONDUCTORS AND PULL BOXES TO SERVICE NEW PED SIGNALS AND APS TO SERVICE XWALKS CROSSING NORTHGATE DR. INSTALL PEDESTRIAN PHASE LOAD SWITCHES IN THE CONTROLLER CABINET, CONNECT TO EXISTING SIGNAL CONTROLLER AND PROGRAM THE PEDESTRIAN CROSSING PHASES. TIMING SHEETS TO BE PROVIDED BY THE CITY. CONTRACTOR MAY REUSE CONDUIT AND SPARE CONDUCTORS IF CAPACITY EXISTS.
- INSTALL APS AS A 2-WIRE SYSTEM CONNECTED TO AN APS CONTROL UNIT IN THE CONTROLLER CABINET. IF EXISTING CONDUCTORS CANNOT SUPPORT A 2-WIRE SYSTEM, INSTALL APS AS A 3-WIRE SYSTEM WITH CONNECTION TO THE CORRESPONDING PED SIGNAL.

* ALL APS SHALL BE NEW
 ** DIRECTION OF CORRESPONDING VEHICLE PHASE NOTED IN LIEU OF AS-BUILT PLANS, PED PHASE (ø) TO BE CONFIRMED BY CONTRACTOR,

100% PLANS – SUPPLEMENTAL & ADD ALTERNATE LOCATION



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 APPROVED: DP



COUNTY OF MARIN - CITY OF SAN RAFAEL
 HSIP COUNTYWIDE TRAFFIC SIGNAL IMPROVEMENT PROJECT
 MANUEL T FREITAS PKWY / NORTHGATE DR ELECTRICAL SCHEDULE



| REVISIONS | | DATE | SCALE |
|-----------|-------------|-----------------|------------|
| NO. | DESCRIPTION | 10/01/2021 | N/A |
| | | PTC PROJECT NO. | 20036 |
| | | DRAWING | E-59(AA) |
| | | SHEET NO. | 104 OF 104 |