

**GENERAL NOTES:**

1. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE CITY OF ROSEVILLE CONSTRUCTION AND IMPROVEMENTS STANDARDS (INCLUDING THE LATEST AMENDMENTS), STANDARD CONSTRUCTIONS SPECIFICATIONS, CALTRANS STANDARD SPECIFICATIONS AND PLANS FOR CONSTRUCTION OF LOCAL STREETS AND ROADS DATED 2002 (ENGLISH UNITS), AND THE LATEST ADDITION OF THE CMUTCD.
2. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE NEGLIGENCE OF ENGINEER.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN ON THESE PLANS FROM THE APPROPRIATE AGENCIES. REFER TO THE SPECIAL PROVISIONS FOR PERMITS NEEDED.
4. THESE PLANS ARE HEREBY MADE PART OF THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

**VERIFICATION-LOCATION:**

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UNDERGROUND UTILITIES, WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL CONTACT U.S.A. AND HAVE UTILITIES MARKED AT LEAST 72 HOURS BEFORE BEGINNING WORK. WHERE MARKINGS ARE NEAR PROPOSED FOUNDATIONS, THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES BY POT HOLING PRIOR TO EXCAVATING.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ALL LABOR AND EQUIPMENT NECESSARY TO LOCATE EXISTING UNDERGROUND FACILITIES BEYOND THE INFORMATION PROVIDED BY U.S.A. MARKING INCLUDE, BUT NOT LIMITED TO, METAL DETECTORS, WIRE LOCATIONS (OR WIRE LOCATING EQUIPMENT), AND POTHOLING.
7. LOCATIONS OF SIGNAL STANDARDS, CONTROLLERS, SERVICE PEDESTALS, PULL BOXES AND LOOP DETECTORS AS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE THESE ITEMS AND THE ENGINEER SHALL APPROVE SAID LOCATIONS PRIOR TO EXCAVATION.
8. IN CASE OF BORING, CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

### **TRAFFIC CONTROL PLANS:**

9. TRAFFIC CONTROL SHALL BE PER THE LATEST ADDITION OF THE CMUTCD. AT LEAST ONE LANE IN EACH DIRECTION SHALL REMAIN OPEN TO TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLANS. TRAFFIC CONTROL HOURS ARE SUBJECT TO LIMITATION BY THE CITY. TRAFFIC CONTROL WITH LANE CLOSURES THAT AFFECT TRAFFIC FLOW MAY REQUIRE NIGHT WORK. IF, AS A PART OF TRAFFIC CONTROL MEASURES, A ROADWAY CLOSURE HAS BEEN APPROVED, THE CONTRACTOR SHALL NOTIFY ENGINEERING DIVISION 72 HOURS IN ADVANCE OF SETTING UP THIS CLOSURE.
10. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A WRITTEN TRAFFIC CONTROL PLAN REQUESTING TO DISCONNECT OR DISABLE ANY TRAFFIC SIGNAL LOOP OR SIGNAL INTERCONNECT WIRE. THIS WRITTEN NOTIFICATION SHALL INCLUDE DATE AND TIME OF DISCONNECT, DESCRIPTION OF WORK, INCLUDING LOOP INPUTS IF APPLICABLE, CONTACT PERSON, AND ESTIMATED DATE OF RECONNECTION. THIS REQUEST SHALL BE ON COMPANY LETTERHEAD, FAX OR VIA COMPANY E-MAIL. UPON APPROVAL OF REQUEST, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 48 HOURS PRIOR TO WORK TO VERIFY SCHEDULE. A COPY OF THE APPROVED REQUEST SHALL BE GIVEN TO THE SIGNAL TECHNICIAN DISCONNECTING THE REQUESTED SYSTEM. THIS COPY IS TO BE PLACED IN THE NEAREST CONTROLLER CABINET DURING THE COURSE WORK. REQUEST TO DISCONNECT OR DISABLE ANY TRAFFIC SIGNAL SYSTEM FOR A PERIOD LONGER THAN FIVE (5) WORKING DAYS WILL NOT BE APPROVED.
11. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A WRITTEN TRAFFIC CONTROL PLAN IF ANY (PARTIAL OR FULL) LANE CLOSURE IS NECESSARY. THIS WRITTEN NOTIFICATION SHALL INCLUDE DATE AND TIME, DESCRIPTION OF WORK, CONTACT PERSON AND ESTIMATED DATE OF COMPLETION. THIS REQUEST SHALL BE ON COMPANY LETTERHEAD, FAX, OR VIA COMPANY E-MAIL. THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION 72 HOURS IN ADVANCE OF SETTING UP THE CLOSURE. UPON APPROVAL OF REQUEST, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR 48 HOURS PRIOR TO WORK TO VERIFY SCHEDULE.
12. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS OR OTHER DEVICES NECESSARY TO PROVIDE SAFETY.
13. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF JOB SITE.

### **A.C./CONCRETE-PAVEMENT WORK:**

14. A.C. SURFACE SHALL BE CUT TO A NEAT, STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RECOMPACTED, AND RESEALED PRIOR TO PAVING.
15. ANY EXISTING CONCRETE SURFACE TO BE REMOVED SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE.
16. ALL CONCRETE TO BE USED IN CURBS, DRIVEWAYS, BIKE PATHS AND SIDEWALKS SHALL BE CLASS A (6 SACK).
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE JOB SITE.

**SUBGRADE:**

18. THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A. ANY AREAS NOT MARKED WILL NOT BE SUBJECT TO U.S.A. AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCAVATION.
19. ALL UNDERGROUND UTILITIES WITHIN EXISTING OR PROPOSED CITY OF ROSEVILLE EASEMENTS SHALL REQUIRE A MINIMUM OF 90% COMPACTION ON THE TRENCH BACKFILL. COMPACTION OF BACKFILL BY JETTING IS NOT PERMITTED IN CITY OF ROSEVILLE RIGHT OF WAY AREAS OR WITHIN DEDICATED RECLAIMED WATER, STORM, SEWER OR WATER EASEMENTS AND MAINS.
20. THE UPPER SIX (6) INCHES OF THE SUB GRADE SHALL BE COMPACTED TO 95% MINIMUM RELATIVE COMPACTION.
21. PRIOR TO EXCAVATION OF TRENCHES 5 FEET OR DEEPER, THE CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT OR ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR A COPY OF THE COMPANY'S ANNUAL CALOSHA TRENCHING PERMIT AND A COPY OF THE COMPANY'S LETTER INFORMING CALOSHA OF THE TIME THE TRENCHING IS COMMENCING AND THE LOCATION OF THE WORK.
22. NO TRENCHING SHALL OCCUR BENEATH THE DRIP LINE OF ANY OAK TREE TO BE SAVED UNLESS STATED ON THESE PLANS "TRENCHING UNDER THIS TREE IS APPROVED".

**SIGNAL:**

23. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SIGNAL TO OPERATE AS SHOWN IN THE PHASE DIAGRAM, EXCEPT AS NOTED IN THE SPECIAL PROVISIONS.
24. ALL SIGNAL SECTIONS SHALL HAVE FULL CIRCLE VISORS.
25. MOUNT VIDEO PAN, TILT, ZOOM CAMERA BELOW LUMINAIRE MAST ARM AS DIRECTED BY CITY ENGINEER.
26. SIGNAL HEADS TO REMAIN DARK FOR MORE THAN ONE MONTH SHALL BE COVERED WITH A COMMERCIALY AVAILABLE SIGNAL HEAD COVER. BURLAP SACKS AND/OR PLYWOOD WILL NOT BE ALLOWED.
27. FOR SIGNALS BEING INSTALLED AS A DEVELOPER OBLIGATION, THE CITY SHALL SUPPLY EQUIPMENT AS OUTLINED IN THE CITY'S STANDARDS AT THE DEVELOPER'S COST. FULL PAYMENT IS REQUIRED PRIOR TO THE RELEASE OF THE EQUIPMENT.
28. ALL LOOP DETECTOR HANDHOLES (DHH'S) SHALL BE INSTALLED ON THE LANE LINES. EACH DHH SHALL BE CONNECTED TO ITS OWN UNIQUE CONDUIT THAT RUNS DIRECTLY FROM THE DHH TO A NUMBER 6 PULL BOX LOCATED IN THE SIDEWALK, ADJACENT TO THE DHH IN THE SAME DIRECTION OF TRAVEL. NO MULTIPLE DHH'S SHALL BE ALLOWED THAT ARE CONNECTED TO THE SAME CONDUIT RUN.
29. ALL DHH'S SHALL BE INSTALLED PER THE STATE OF CALIFORNIA STANDART PLANS, DATED JULY 2002, DRAWING ES-5E, TYPE B DETECTOR HANDHOLE DETAILS.

### **SIGNING-STRIPING:**

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING AS REQUIRED BY THE LATEST EDITION OF THE CMUTCD TO DELINEATE CONSTRUCTION HAZARDS AT HIS OWN EXPENSE.
31. ALL TRAFFIC STRIPES AND PAVEMENT LEGENDS SHALL BE THERMOPLASTIC.
32. SIGNING AND STRIPING DETAILS REFER TO THOSE SHOWN IN THE LATEST EDITION OF THE CMUTCD.
33. LOCATIONS OF SIGNING AND STRIPING AS SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE THESE ITEMS AND THE ENGINEER SHALL APPROVE SAID LOCATIONS PRIOR TO CONSTRUCTION/INSTALLATION.
34. THE CONTRACTOR SHALL REMOVE ALL EXISTING NON-CONFORMING STRIPING AS DIRECTED BY THE ENGINEER AND ALL EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING.

### **EROSION CONTROL:**

35. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING, AND BRACING OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE, OR LIMB, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS AND SHALL PROVIDE CITY OF ROSEVILLE WITH A COPY OF OSHA PERMIT.
36. CONSTRUCTION ACTIVITIES OCCURRING BETWEEN OCTOBER 15 AND APRIL 1 SHALL HAVE EROSION AND SEDIMENT CONTROL MEASURES IN PLACE OR CAPABLE OF BEING PLACED WITHIN 24 HOURS. THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM.
37. ADJACENT STREET FRONTAGES SHALL BE SWEEPED AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES.
38. THE CONTRACTOR SHALL MEET AND FOLLOW ALL NPDES REQUIREMENTS IN EFFECT AT THE TIME OF CONSTRUCTION.

### **RESTORATION:**

39. ALL EXISTING UTILITIES AND IMPROVEMENTS, INCLUDING SUBSTRUCTURES, THAT ARE DAMAGED BY THE CONTRACTOR, WHICH ARE NOT DESIGNATED BY THE PLANS OR SPECIFICATIONS TO BE DISTURBED, SHALL BE RESTORED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
40. CONTRACTOR SHALL RESTORE ALL DISTURBED LANDSCAPING AND IRRIGATION SYSTEMS TO ORIGINAL CONDITION AND/OR REDESIGN AND INSTALL IRRIGATION TO ACCOMMODATE NEW STRUCTURES WITHIN THIS PROJECT.

41. THE DEVELOPERS CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT EXISTING SITE AND ADJACENT IMPROVEMENTS FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR MAKE REPLACEMENT OF ALL CRACKED

AND OTHERWISE PRE-EXISTING DAMAGED PUBLIC IMPROVEMENTS ALONG THE FRONTAGE OF THE PROJECT SITE AND ANY DAMAGE RESULTING FROM CONSTRUCTION TO CURRENT CITY STANDARDS AND AT THEIR OWN EXPENSE. THE EXTENT OF THE REPAIRS SHALL BE DETERMINED BY THE PUBLIC WORKS INSPECTOR AND SHALL BE COMPLETED PRIOR TO THE CITY ACCEPTANCE OF THE IMPROVEMENTS.

**MISC.:**

42. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION MEETING ONE-WEEK PRIOR TO STARTING WORK. MEMBERS OF THE CITY OF ROSEVILLE ENGINEERING DIVISION, ENVIRONMENTAL UTILITIES DEPARTMENT, AND ALL OTHER UTILITY REPRESENTATIVES SHALL BE NOTIFIED BY THE CONTRACTOR AS TO THE DATE AND LOCATION OF THE MEETING.
43. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL REQUEST IN WRITING FROM THE ENGINEER SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
44. PARKING OF VEHICLES AND EQUIPMENT OR STORAGE OF MATERIALS UNDER THE DRIPLINE OF TREES SHALL NOT OCCUR AT ANY TIME.

**BEFORE  
EXCAVATING CALL  
U.S.A.  
UNDERGROUND SERVICE  
ALERT 1-800-642-2444**

**PROJECT NOTES: (THIS SHEET ONLY)** ...ON LOOP & PHASE DIAGRAM PLAN SHEET

INSTALL CITY-FURNISHED MODEL 2070 CONTROLLER AND COMMUNICATION HUB IN CITY SUPPLIED NEMA TYPE P CABINET.

INSTALL CITY-FURNISHED TESCO TYPE 27-22 SERVICE EQUIPMENT ENCLOSURE WITH BATTERY BACKUP SYSTEM OR APPROVED EQUIVALENT.

CONSTRUCT P.C.C. PAD FOR CONTROLLER AND SERVICE CABINET. SEE DETAIL ON SHEET.

INSTALL 4-SECTION SIGNAL HEAD. SEE DETAIL ON THIS SHEET.

FURNISH AND INSTALL GELCORE 16" PEDESTRIAN COUNTDOWN SIGNAL HEAD, MODEL # PS7-CFF1-01A-18, OR APPROVED EQUIVALENT.

REMOVE AND SALVAGE EXISTING STREET LIGHT. MAINTAIN EXISTING STREET LIGHTING CIRCUITS.

INSTALL CITY SUPPLIED PAN, TILT, ZOOM VIDEO CAMERA. MOUNT BELOW LUMINAIRE MAST ARM (AS DIRECTED BY CITY ENGINEER) AND ASSOCIATED COMMUNICATIONS AND POWER CABLES.

10

SAWCUT SIGNAL INTERCONNECT CONDUIT TRENCH UNDER BIKE LANE STRIPE.  
FURNISH AND INSTALL POLAR BULLDOG MODEL #B2LM2-G OR APPROVED EQUAL.  
INSTALL CONTRACTOR-FURNISHED INTERNALLY ILLUMINATED STREET NAME SIGN (IISNS). CONTRACTOR TO FURNISH AND INSTALL IISNS MAST ARM PER CITY STANDARDS.

11

INSTALL WIFI WIRELESS COMMUNICATIONS CABLE TO THE TOP OF THE POLE WITH 10 FEET OF SLACK. CITY WILL INSTALL THE EQUIPMENT.

**CONSTRUCTION NOTES: CONTROLLER PAD DETAIL**

INSTALL CITY-FURNISHED MODEL 2070 CONTROLLER WITH COMMUNICATION HUB IN CITY SUPPLIED NEMA TYPE P CABINET.

INSTALL CITY-FURNISHED TESCO TYPE 27-22 SERVICE EQUIPMENT ENCLOSURE WITH BATTERY BACKUP SYSTEM OR APPROVED EQUIVALENT.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE AWG#8 BARE COPPER CONDUCTOR. STRANDED WIRE WILL NOT BE ACCEPTED.

**ALSO:**

EXISTING DLC. INTERCEPT AND

EXTEND EXISTING CONDUIT INTO NEW DH

COIL LOOP WIRES IN EXISTING PULL BOX FOR CONNECTION TO FUTURE DLC'S.

**PROJECT NOTES: (THIS SHEET ONLY)** ...STRIPING AND STRIPING PLAN SHEET

REMOVE EXISTING "STOP" LEGEND AT TIME OF SIGNAL TURN ON.  
REMOVE EXISTING R1 SIGN AND STREET NAME SIGNS AT TIME OF SIGNAL TURN ON.