

Updated April 2024

## **PRIVATE DEVELOPMENT IMPROVEMENT PLAN REQUIREMENTS**

The information and guidelines contained herein are to be used whenever applicable. In the event a development is to be constructed in stages, master utility plans are required prior to submittal of the first stage improvement plans. The master utility plans shall show all improvements, including interim (phased) and ultimate improvements. For information regarding these guidelines contact the Land Development Section Principal Engineer, at (408) 586-3316.

## **CITY STANDARD IMPROVEMENT PLAN GENERAL NOTES**

All work and materials shown on improvement plans for private development projects submitted to the City shall comply with the latest edition of the City of Milpitas standard details and specifications available from Engineering Department. All plans and documents submitted for City review and for issuance of a City Encroachment Permit shall be completed by and include the seal of a California licensed Civil Engineer and shall include the City's standard Improvement Plan Title Block and the City's Standard Plan Sheet General Notes listed below.

Plans used for construction within City Streets and the public right of way shall be signed by the City Engineering Director/City Engineer or his representative. Any subsequent plan changes shall first be approved by the City Engineering Director prior to construction.

City of Milpitas Standard private development improvement plans General Notes:

### **GENERAL NOTES:**

1. CONTRACTOR AGREES TO DEFEND, INDEMNIFY, AND HOLD THE CITY OF MILPITAS, ITS EMPLOYEES, OFFICERS, AND AUTHORIZED REPRESENTATIVES HARMLESS FROM ANY AND ALL CLAIMS AND LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK.
2. CONTRACTOR SHALL OBTAIN A CITY BUSINESS LICENSE AND A PUBLIC WORKS CONSTRUCTION OR ENCROACHMENT PERMIT PRIOR TO STARTING ANY WORK.
3. THE OFFICIAL COPY OF THESE PLANS ARE ON FILE IN THE OFFICE OF THE CITY ENGINEER.
4. THIS PLAN IS SUBJECT TO REVIEW AND SUBSEQUENT APPROVAL IN THE EVENT WORK HAS NOT COMMENCED WITHIN SIX (6) MONTHS OF THE DATE OF CITY ENGINEER PLAN APPROVAL.
5. CONTRACTOR SHALL SUBMIT A PROJECT CONSTRUCTION SCHEDULE TO THE CITY ENGINEER FOR REVIEW PRIOR TO STARTING WORK.
6. ALL GRADING SHALL COMPLY WITH THE CITY OF MILPITAS GRADING ORDINANCE, THIS PLAN, AND THE PRELIMINARY SOILS REPORT PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_ INCLUDING ALL SUBSEQUENT REVISIONS.

7. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER'S ENGINEER FROM RESPONSIBILITY TO CORRECT ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION.
8. CONTRACTOR SHALL DISTRIBUTE A CITY APPROVED NOTICE OF CONSTRUCTION TO RESIDENTS AND BUSINESS ADJACENT TO AND WITHIN A MINIMUM OF 300-FEET OF THE PROJECT. NOTICE SHALL BE DISTRIBUTED TWO-WEEKS, ONE-WEEK, AND 24-HOURS PRIOR TO BEGINNING WORK OR AS DIRECTED BY THE CITY ENGINEER.
9. CONTRACTORS MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY STANDARDS DETAILS, STANDARD SPECIFICATIONS, ORDINANCES OF THE CITY OF MILPITAS, AND THE LATEST STATE STANDARD SPECIFICATIONS. CITY STANDARD DETAILS AND SPECIFICATIONS ARE AVAILABLE FROM THE CITY ENGINEERING DEPARTMENT, 408-586-3300:  
<https://www.ci.milpitas.ca.gov/milpitas/departments/engineering/standard-details-and-specifications/>
10. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND APPROVALS NECESSARY TO PERFORM THE WORK SHOWN ON THESE DRAWINGS, AND SHALL COMPLY WITH FEDERAL, STATE AND LOCAL LAW.
11. CONTRACTOR SHALL CONTACT THE CITY INSPECTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING BEFORE STARTING WORK. THEREAFTER, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR DAILY PRIOR TO WORKING IN THE STREET OR RIGHT OF WAY. PRE-CONSTRUCTION MEETINGS AND INSPECTIONS MAY BE SCHEDULED BY CONTACTING: (408) 586-2797, OR PREFERRED METHOD:  
<https://app.acuityscheduling.com/schedule.php?owner=18287911>
12. CONTRACTOR'S PROJECT MANAGER AND SUPERINTENDENT SHALL ATTEND PRE-CONSTRUCTION MEETING WITH CITY INSPECTOR PRIOR TO STARTING WORK.
13. CONTRACTOR SHALL USE A LICENSED LAND SURVEYOR TO LOCATE AND TIE-OUT ALL MONUMENTS WITHIN WORK AREA AND SUBMIT MONUMENT TIE-OUT RECORD TO THE CITY ENGINEER PRIOR TO STARTING WORK.
14. THE LOCATION OF MANHOLES, VALVE & UTILITY BOXES, MONUMENTS, TRAFFIC LOOPS, AND OTHER INFRASTRUCTURE AS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD LOCATED BY CONTRACTOR.
15. CONTRACTOR SHALL NOT PERFORM ANY WORK THAT DEVIATES FROM THAT SHOWN IN THE PLANS WITHOUT APPROVAL FROM THE CITY ENGINEER.

16. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND REQUIRED MATERIAL QUANTITIES PRIOR TO STARTING WORK. ANY CONFLICT WITH INFORMATION SHOWN IN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER.
17. WHEN IT IS FOUND THAT FIELD CONDITIONS DIFFER FROM THAT SHOWN ON THE CITY APPROVED PLANS SHALL CAUSE THE DEVELOPERS ENGINEER TO SUBMIT PLAN REVISIONS TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION.
18. PROPERTY, INCLUDING UTILITIES, HARDSCAPE, LANDSCAPING, AND OTHER EXISTING INFRASTRUCTURE DAMAGED BY CONTRACTORS WORK SHALL BE RESTORED IN-KIND OR TO A BETTER CONDITION AT CONTRACTORS EXPENSE.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND CONDITIONS AT THE PROJECT JOB SITE AT ALL TIMES.
20. CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY REQUIREMENTS, HEALTH AND SAFETY ORDERS, CITY, STATE, AND FEDERAL REGULATIONS.
21. SURVEY MONUMENTATION SHALL BE PROTECTED AND PERPETUATED IN PLACE AS REQUIRED BY THE STATE OF CALIFORNIA BUSINESS AND PROFESSIONS CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE RESET OF DISTURBED OR BURIED MONUMENTS.
22. CONTRACTOR SHALL USE A LICENSED LAND SURVEYOR TO LOCATE AND TIE-OUT ALL MONUMENTS WITHIN WORK AREA AND SUBMIT MONUMENT TIE-OUT RECORD TO THE CITY ENGINEER PRIOR TO STARTING WORK.
23. NO CONSTRUCTION OPERATIONS ARE PERMITTED ON THE FOLLOWING CITY HOLIDAYS IN ACCORDANCE WITH CITY ORDINANCE: NEW YEARS DAY, MARTIN LUTHER KING BIRTHDAY, CESAR CHAVEZ DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, VETERANS DAY, THANKSGIVING DAY, DAY AFTER THANKSGIVING, DAY BEFORE CHRISTMAS, AND CHRISTMAS DAY.
24. CONTRACTORS WORK HOURS, INCLUDING OFF HAUL AND DELIVERY OF MATERIALS SHALL BE LIMITED TO THE HOURS BETWEEN 7 A.M. TO 5 P.M. 7-DAYS PER WEEK EXCEPT CITY HOLIDAYS UNLESS A CHANGE IS APPROVED BY THE CITY ENGINEER. TRAFFIC CONTROL PLAN LANE CLOSURE RESTRICTIONS MAY BE MORE RESTRICTIVE DEPENDENT ON TRAFFIC CONDITIONS.
25. CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH STATE LAW, CITY ORDINANCE, AND THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

26. CONTRACTOR SHALL NOT ALLOW ANY DEBRIS OR DISCHARGE TO ENTER A STORM DRAIN CATCH BASIN OR WATER COURSE.
27. CONTRACTOR SHALL MAINTAIN PROJECT SITE AND ADJACENT AREAS IN A NEAT, CLEAN, AND PROFESSIONAL CONDITION AT ALL TIMES. CONTRACTOR SHALL PROVIDE GRAFFITI, TRASH, AND DEBRIS REMOVAL INCLUDING STREET/SIDEWALK SWEEPING OPERATIONS DAILY AT THE END OF THE DAYS WORK.
28. CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AT PROJECT SITE AND DURING CONSTRUCTION OPERATIONS AT ALL TIMES.
29. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF AS-BUILT CONDITIONS WITH ANY REDLINE FIELD CHANGES FOR CITY REVIEW AND APPROVAL PRIOR TO REQUESTING FINAL INSPECTION AND PRIOR TO SUBMITTING FINAL RECORD DRAWINGS. DRAWINGS SHALL BE PROVIDED IN HARDCOPY, ELECTRONIC PDF, AND IN CADD FORMAT MEETING CITY STANDARDS.
30. PRIOR TO FINAL INSPECTION, THE DEVELOPER'S ENGINEER SHALL SUBMIT A CERTIFICATE OF COMPLETION CERTIFYING THAT PRIVATELY MAINTAINED IMPROVEMENTS, IF ANY, HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.
31. CONTRACTOR SHALL IMMEDIATELY STOP WORK WHEN ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL ESTABLISH A 100-FOOT PERIMETER AROUND FOUND MATERIALS AND SHALL CONTACT A PROFESSIONAL ARCHAEOLOGIST CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHAEOLOGIST (SCA), OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGIST (SOPA) TO EVALUATE THE FOUND MATERIALS AND DIRECT APPROPRIATE MITIGATION.
32. GENERALLY, THE PUBLIC WORKS INSPECTOR PERFORMS INSPECTIONS OF OFF-SITE WORK CONSTRUCTED IN STREETS AND THE PUBLIC RIGHT OF WAY, AND THE BUILDING DEPARTMENT INSPECTS ON-SITE WORK. THE DEVELOPER'S ENGINEER SHALL COORDINATE WITH BOTH THE PUBLIC WORKS INSPECTOR AND THE BUILDING DEPARTMENT INSPECTOR FOR SUBMISSION OF THE CERTIFICATES OF COMPLETION FOR VARIOUS COMPLETED IMPROVEMENTS.
33. CONTRACTOR SHALL NOT USE POTABLE WATER FOR CONSTRUCTION AND DUST CONTROL. REFER TO CITY OF MILPITAS ORDINANCE NO. 240.2. FOR DETAILS AND EXCEPTIONS. CONTACT THE CITY INSPECTOR FOR LOCATIONS OF RECYCLED WATER ACCESS POINTS FOR USE DURING CONSTRUCTION.

34. CONTRACTOR SHALL OBTAIN A CITY OF MILPITAS CONSTRUCTION WATER METER FOR POTABLE AND/OR RECYCLED WATER FOR USE DURING CONSTRUCTION AND SHALL PAY USAGE CHARGES. CONTRACTOR SHALL NOT OBTAIN WATER FROM ANY ON-SITE UTILITY SOURCES, FIRE HYDRANTS, OR ELSEWHERE UNLESS APPROVED BY INSPECTOR.

#### **ROADWAY & TRAFFIC CONTROL**

35. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN DESIGNED BY A CALIFORNIA LICENSED ENGINEER AND RECEIVE CITY APPROVAL OF PLAN PRIOR TO STARTING WORK IN THE STREET.
36. CONTRACTOR SHALL NOT COMPLETELY CLOSE ANY STREET AND SHALL PROVIDE FOR THROUGH TRAFFIC AND ACCESS TO ALL DRIVEWAYS UNLESS ALLOWED BY THE CITY APPROVED TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE CITY ENGINEER.
37. DETOUR OF THROUGH TRAFFIC TO NEARBY STREETS SHALL NOT BE PERMITTED. CONTRACTOR'S TRAFFIC CONTROL SHALL MAINTAIN AT LEAST A MINIMUM OF ONE 10-FOOT WIDE THROUGH TRAFFIC LANE PER TRAVEL DIRECTION AT ALL TIMES.
38. CONTRACTOR SHALL PROVIDE SAFE PEDESTRIAN AND BICYCLIST DETOURS COMPLIANT WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) WHEN A SIDEWALK, CURB RAMP, OR BIKE LANE IS CLOSED OR OBSTRUCTED.
39. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE MILPITAS UNIFIED SCHOOL DISTRICT (MUSD); WASTE MANAGEMENT SERVICES; U.S. POSTAL SERVICE, TRANSPORTATION (TRANSIT) AGENCIES, AND EMERGENCY SERVICES PRIOR TO STARTING WORK WITHIN THE STREET AND SIDEWALKS.
40. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TRAFFIC FLAGGERS, WARNING SIGNAGE, SAFETY DEVICES, AND ALL TRAFFIC CONTROLS AT NO ADDITIONAL COST TO CITY WHEN WORKING IN STREET OR WHEN CONTRACTORS OPERATIONS CREATE A HAZARDOUS CONDITION AS DETERMINED BY THE CITY ENGINEER.
41. CONTRACTOR SHALL MAINTAIN SUFFICIENT STOCK OF TRAFFIC CONES, BARRICADES, WARNING SIGNAGE, AND SAFETY DEVICES AT THE JOB SITE AT ALL TIMES TO ALLOW FOR IMMEDIATE DEPLOYMENT TO ADDRESS A HAZARDOUS CONDITION.
42. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY ROADWAY MARKINGS IMMEDIATELY AFTER STRIPING REMOVAL. TEMPORARY MARKINGS AND SAFETY DEVICES SHALL REMAIN IN PLACE UNTIL AFTER PERMANENT MARKINGS HAVE BEEN INSTALLED OR AS DIRECTED BY THE CITY ENGINEER.

43. TEMPORARY PAVEMENT SURFACE MATERIALS SHALL BE INSPECTED DAILY AND REPAIRED BY CONTRACTOR WHEN SETTLEMENT, UPLIFT, OR OTHER DEFECT IS PRESENT OR AS DIRECTED BY THE CITY ENGINEER.
44. CONTRACTOR SHALL INSTALL FINAL FINISHED STREET ASPHALT PAVEMENT SURFACE AND/OR SIDEWALK CONCRETE SURFACE MATERIALS WITHIN 14-DAYS FOLLOWING COMPLETION OF TRENCHING AND EXCAVATION OPERATIONS. TEMPORARY SURFACE MATERIALS SHALL NOT REMAIN IN PLACE LONGER THAN 14-DAYS UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER.
45. CONTRACTOR SHALL RECEIVE INSPECTOR APPROVAL OF CAT-TRACKING OF ROADWAY STRIPING AND MARKINGS PRIOR TO INSTALLATION OF FINAL MARKINGS.
46. CONTRACTOR SHALL ONLY HAUL ON ROUTES AND STREETS AS PRE-APPROVED BY THE CITY ENGINEER.
47. CONTRACTOR SHALL ENSURE HAULING OPERATIONS DO NOT ALLOW MATERIAL TO BE BLOWN OR SPILLED UPON STREETS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEAN-UP AND DAMAGE AS A RESULT OF HAULING ACTIVITIES.
48. CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT ON STREET OR RIGHT OF WAY UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
49. CONTRACTOR SHALL OBTAIN APPROVALS FROM PRIVATE PROPERTY OWNERS PRIOR TO ACCESS OR USE OF PROPERTY.
50. CONTRACTOR SHALL NOT PLACE PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE UNTIL FORMS, SUBGRADE, AND AGGREGATE BASE HAVE BEEN INSPECTED BY THE CITY'S INSPECTOR AND APPROVED BY THE DEVELOPER'S ENGINEER.
51. AGGREGATE BASE MATERIALS USED AND PLACED SHALL MEET THE REQUIREMENTS OF THE STATE OF CALIFORNIA (CALTRANS) STANDARD SPECIFICATIONS UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. CONTRACTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE FOR AGGREGATE BASE MATERIALS TO THE PUBLIC WORKS INSPECTION PRIOR TO FINAL INSPECTION.
52. EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE TACK-COATED PRIOR TO CONSTRUCTING ABUTMENT WITH NEW PAVEMENT.

53. ASPHALT PAVEMENT PLACEMENT AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ADDITION OF THE STATE OF CALIFORNIA (CALTRANS) SECTION 39 UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. CONTRACTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE FOR ASPHALT CONCRETE PAVEMENT MATERIALS TO THE PUBLIC WORKS INSPECTION PRIOR TO FINAL INSPECTION.
54. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND UNTIL ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
55. UTILITY BOXES, MANHOLE COVERS, AND OTHER INFRASTRUCTURE SHALL BE BROUGHT TO FINISHED GRADE BY CONTRACTOR NO LATER THAN 72-HOURS FOLLOWING FINAL PAVING OPERATIONS.
56. STANDARD STREET MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS AND OTHER LOCATIONS SHOWN ON THIS PLAN IN CONFORMANCE WITH CITY STANDARD DETAIL.
57. STREET NAME SIGN ASSEMBLY SHALL BE INSTALLED IN CONFORMANCE WITH CITY STANDARD DETAILS AT EACH INTERSECTION AND WHERE SHOWN ON PLANS.
58. FIRE HYDRANTS, ELECTROLIERS, AND METER BOXES SHALL CLEAR DRIVEWAYS AND OTHER FACILITIES BY 5-FEET, 5-FEET AND 1-FOOT RESPECTIVELY UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
59. MAILBOXES SHALL BE PROVIDED AND INSTALLED AS REQUIRED BY U. S. POSTAL SERVICES BUT WILL NOT BE INSPECTED BY THE PUBLIC WORKS INSPECTOR.
60. SIGNAGE TO BE INSTALLED SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICE (CAMUTCD) AND BE A MINIMUM OF .080 GAUGE ALUMINUM WITH 3M HIGH INTENSITY PRISMATIC REFLECTIVE FACE OR AS DIRECTED BY THE CITY ENGINEER. THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATES OF COMPLIANCE PRIOR TO FINAL INSPECTION.
61. SIGNAGE TO BE INSTALLED SHALL BE OF STANDARD SIZE DESIGNATED FOR EACH TYPE PER LATEST CAMUTCD.
62. SIGNAGE MOUNTING SHALL CONFORM TO LATEST CAMUTCD AND STATE OF CALIFORNIA (CALTRANS) STANDARD PLANS AND SPECIFICATIONS.

63. NEW PAVEMENT STRIPING, CROSSWALKS, AND LEGENDS SHALL BE THERMOPLASTIC WITH GLASS BEADS WITH THE EXCEPTION OF ROADWAY EDGE LINES AND BIKE LANE LINES WHICH SHALL BE PAINTED. ALL STRIPING AND LEGENDS SHALL CONFORM TO THE LATEST CAMUTCD AND STATE OF CALIFORNIA (CALTRANS) STANDARD PLANS AND SPECIFICATIONS UNLESS NOTED OTHERWISE OR AS DIRECTED BY THE CITY ENGINEER. THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATES OF COMPLIANCE PRIOR TO FINAL INSPECTION.
64. WHERE SPECIFIED, NEW PAVEMENT STRIPING PAINT SHALL BE RAPID DRY WATER BORNE. PAINT AND GLASS BEADS SHALL CONFORM TO STATE OF CALIFORNIA (CALTRANS) SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATES OF COMPLIANCE FOR PRIOR TO FINAL INSPECTION.
65. PAINTED LEGENDS SHALL CONFORM TO STANDARD SIZES AND PATTERNS OF THE CAMUTCD. THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATES OF COMPLIANCE FOR PRIOR TO FINAL INSPECTION.
66. RAISED PAVEMENT MARKERS OF VARIOUS TYPES SHALL CONFORM TO SECTION 85, "PAVEMENT MARKERS", OF THE STATE STANDARD SPECIFICATIONS UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER. THE CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATES OF COMPLIANCE FOR PRIOR TO FINAL INSPECTION.
67. NEW ELECTROLIERS (STREETLIGHT) SHALL BE CONNECTED TO THE CLOSEST UNDERGROUND SECONDARY P.G.&E. SOURCE. PULL BOXES SHALL BE REQUIRED AT EACH ELECTROLIER AND WHERE MORE THAN ONE BEND OF THE CABLE IS NECESSARY TO REACH TO ELECTROLIER AND AT SERVICE POINT WHERE NO P.G.&E. BOX IS INSTALLED. SPLICING OF CONDUCTOR WIRE IS PERMITTED ONLY IN PULL BOXES.
68. IN-LINE FUSES SHALL BE ENCLOSED IN A PHENOLIC CASE AND INSTALLED AT ELECTROLIERS AND LOCATED IN THE HAND HOLE OF EACH POLE. FUSES SHALL BE INSTALLED ON EACH ENERGIZED LEAD AND SHALL BE ADEQUATELY SIZED TO CONFORM WITH THE NATIONAL ELECTRICAL CODES (NEC).
69. NEW STREET LIGHT NUMBERS WILL BE ASSIGNED BY THE CITY AND INSTALLED ON THE POLES BY THE CONTRACTOR AS DIRECTED BY THE PUBLIC WORKS INSPECTOR.
70. CONTRACTOR SHALL POST "NO PARKING SIGNAGE" WITH SIGNAGE AVAILABLE FROM CITY AS REQUIRED TO SAFELY COMPLETE WORK IN THE STREET AND SIDEWALK 48-HOURS PRIOR TO STARTING WORK. CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE CITY'S EMERGENCY COMMUNICATON CENTER (408) 586-2400 OF STREETS WHERE SIGNAGE HAS BEEN POSTED.

## **UTILITIES & UNDERGROUND**

71. CONTRACTOR IS RESPONSIBILE FOR LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800)-642-2444 AND OBTAIN A REFERENCE NUMBER PRIOR TO EXCAVATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH FEDERAL, STATE, AND REGULATORY SAFETY REQUIREMENTS FOR EXCAVATION. REFER TO: [www.usanoth811.org](http://www.usanoth811.org)
72. THE EXISTENCE OF UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL POTHOLE TO LOCATE ALL UTILITIES WITHIN CONSTRUCTION AREA WHICH MAY BE AFFECTED BY CONSTRUCTION. THE USE OF GROUND PENETRATION RADAR IN LIEU OF POTHOLE EXCAVATION SHALL NOT BE PERMITTED. CONTRACTOR SHALL SUBMIT THE POTHOLE REPORT WITH FOUND LOCATION AND DEPTH INFORMATION TO THE CITY ENGINEER FOR REVIEW PRIOR TO PROCEEDING WITH FUTHER EXCAVATION.
73. THE CONTRACTOR SHALL POTHOLE TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND STRUCTURES AND WHERE PROPOSED CROSSINGS OF NEW UTILITY WITH EXISTING IS SHOWN ON THE PLANS. THE USE OF GROUND PENETRATION RADAR IN LIEU OF POTHOLE EXCAVATION SHALL NOT BE PERMITTED. CONTRACTOR SHALL SUBMIT THE POTHOLE REPORT WITH FOUND LOCATION AND DEPTH INFORMATION TO THE CITY ENGINEER FOR REVIEW PRIOR TO PROCEEDING WITH FUTHER EXCAVATION.
74. CONTRACTOR SHALL COORDINATE PROPOSED WATER AND SEWER SERVICE INTERRUPTIONS WITH THE PUBLIC WORKS INSPECTOR. CONTRACTOR SHALL CREATE AND DISTRIBUTE A CITY APPROVED NOTICE OF SERVICE INTERRUPTION TO AFFECTED RESIDENTS AND BUSINESS. NOTICES SHALL BE PROVIDED 1-WEEK AND 48-HOURS PRIOR TO INTERRUPTION AND AS DIRECTED BY THE INSPECTOR.
75. NON-METALLIC PIPLINES SHALL BE INSTALLED WITH A TRACE WIRE IN ACCORDANCE WITH CITY STANDARD DETAILS.
76. METALLIC PIPELINES TO BE INSTALLED SHALL INCLUDE CATHODIC PROTECTION IN ACCORDANCE WITH CITY STANDARD DETAILS.
77. WATER VALVES AND PIPELINE BENDS SHALL INCLUDE THRUST BLOCKS CONFORMING TO CITY STANDARD DRAWINGS WHICH SHALL BE DESIGNED BY THE DEVELOPER'S ENGINEER.
78. NEW WATER VALVES TO BE INSTALLED SHALL BE CLUSTERED UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

79. CONTRACTOR SHALL INSTALL A WATER VALVE FOR EACH RESIDENTIAL UNIT AFTER THE METER AND PRIOR TO ENTRY OF THE BUILDING SUCH THAT IT IS ACCESSIBLE TO HOMEOWNER AND CITY METER READER.
80. THE CONTRACTOR SHALL INSTALL THE LETTER "W" IN THE FACE OF CURBS WHERE EACH WATER SERVICE CROSSES THE CURB. THE LETTER "S" SHALL BE USED FOR SEWER, AND THE LETTER "R" SHALL BE USED FOR RECYCLED WATER SERVICE.
81. MINIMUM COVER FOR NEW PIPELINE FROM TOP OF STREET SURFACE SHALL BE: 60-INCHES FOR SANITARY SEWER, 42-INCHES FOR WATER IN STREET, 48-INCHES FOR WATER IN EASEMENT, AND 24-INCHES FOR STORM MAIN.
82. NEW POTABLE WATER PIPELINES AND SERVICE LATERALS TO BE INSTALLED SHALL HAVE A MINIMUM SEPARATION OF 10-FEET HORIZONTAL AND 1-FOOT VERTICAL DISTANCE FROM EXISTING SEWER, STORM PIPELINES, RECYCLED WATER LATERALS. NEW WATER PIPELINES SHALL BE PLACED AT A VERTICAL ELEVATION ABOVE THE OTHER PIPELINES LISTED IN ACCORDANCE WITH STATE REQUIREMENTS
83. NEW HOUSE SEWERS SHALL NOT BE CONNECTED TO LATERALS UNTIL SEWERS HAVE BEEN TESTED AND CONNECTION AUTHORIZED BY THE PUBLIC WORKS INSPECTOR.
84. NEW WATER SERVICE PRESSURE REGULATORS AND SEWAGE BACKFLOW PROTECTION DEVICES ARE SHOWN ON PLANS FOR INFORMATION AND ARE NOT INSPECTED OR ACCEPTED BY PUBLIC WORKS.
85. ALL UTILITY STUBS SHALL BE CAPPED UNLESS DIRECTED DIFFERENTLY BY THE CITY ENGINEER.
86. CONTRACTOR SHALL NOT OPERATE WATER VALVES WITHOUT PRIOR APPROVAL FROM PUBLIC WORKS INSPECTOR.
87. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF NEW WATER METERS CONFORMING TO THE REQUIREMENTS OF CITY STANDARDS, PLANS, AND AS DIRECTED BY THE CITY ENGINEER.
88. CONTRACTOR SHALL NOT ACCESS WATER FROM ON-SITE SOURCES FOR CONSTRUCTION PURPOSES OR ALLOW USE OF "METER JUMPER" UNLESS APPROVED BY THE CITY ENGINEER.
89. CONTRACTOR SHALL PROVIDE VIDEO INSPECTION OF ALL NEWLY INSTALLED STORM AND SANITARY SEWER MAINS. VIDEO INSPECTION SHALL BE PERFORMED AFTER ALL TESTING HAS BEEN COMPLETED. VIDEO FILES SHALL BE SUBMITTED TO THE PUBLIC WORKS INSPECTION PRIOR TO FINAL INSPECTION.

90. CONTRACTOR SHALL PRESSURE TEST AND DISINFECT NEW POTABLE WATER LINES IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS AND AS DIRECTED BY THE CITY ENGINEER. PRESSURE TESTING AND DISINFECTION DATA SHALL BE SUBMITTED TO THE PUBLIC WORKS INSPECTOR FOR REVIEW PRIOR TO CONNECTION OF NEW PIPELINE TO CITY MAIN.
91. DEVELOPER'S ENGINEER SHALL COORDINATE WITH PACIFIC GAS AND ELECTRIC COMPANY (PG&E), AT&T, COMCAST, AND OTHER UTILITY COMPANIES FOR THE DESIGN AND INSTALLATION OF THEIR UTILITIES.
92. CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, SHORING, AND BRACING FOR ALL TRENCHING AND EXCAVATION WORK IN ACCORDANCE TO APPLICABLE SAFETY REGULATION, AND THE CALIFORNIA LABOR CODE.
93. TRENCH EXCAVATION BACKFILL OPERATIONS WITHIN STREETS AND SIDEWALKS THAT CAN NOT BE COMPLETED BY THE END OF WORKDAY SHALL BE SAFELY SHORED AND COVERED BY STEEL PLATE. PLATES SHALL BE RAMPED OR COUNTERSUNK FROM EXISTING SURFACE, PROVIDE A SMOOTH TRANSITION, OVERLAP EDGES OF EXCAVATION BY 6-INCHES MINIMUM, BE SECURED INPLACE TO PREVENT MOVEMENT, ROCKING AND BOUNCE, AND HAVE A NON-SKID SURFACE. CONTRACTOR SHALL INSPECT AND ADJUST INSTALLED PLATES DAILY.

#### **PIPELINE ABANDONMENT**

94. ABANDONMENT OF PIPELINES SHALL TAKE PLACE FROM THE MAIN LINE FOLLOWING DISCONNECTION FROM THE MAIN AND AS DIRECTED BY THE CITY ENGINEER.
95. UNUSED PIPELINES LOCATED BETWEEN THE CURB AND CITY RIGHT OF WAY LINE (OUTSIDE STREET) SHALL NOT BE ABANDONED IN PLACE AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF UNLESS DIRECTED OTHERWISE BY THE CITY ENGINEER.
96. PIPELINES MAY BE ABANDONED IN PLACE FOLLOWING DISCONNECTION AND BY FILLING WITH CONTROLLED DENSITY FILL (CDF), CONTROLLED LOW-STRENGTH MATERIAL (CLSM), FLOWABLE MORTAR, PLASTIC SOIL-CEMENT, SOIL-CEMENT SLURRY, OR K-KRETE OR AS DIRECTED BY THE CITY ENGINEER. FILL MATERIAL SHALL HAVE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI OR LESS.
97. PIPES TO BE ABANDONED THAT ARE NON-CONTINUOUS OR BROKEN BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED SUFFICIENTLY TO CONTAIN THE SELECTED ABANDONMENT BACKFILL MATERIAL AS DIRECTED BY THE ENGINEER. IF SUCH REPAIRS ARE IMPRACTICAL OR INFEASIBLE, THE PIPE(S) SHALL BE COMPLETELY REMOVED AND DISPOSED.

98. SEWER AND STORM MAIN PIPELINES SHALL BE REPAIRED AS DIRECTED BY THE CITY ENGINEER WHEN CONNECTING SERVICE LATERALS ARE DISCONNECTED AND ABANDONED.

**NOTICE OF CONSTRUCTION:**

99. APPROXIMATELY TWO WEEKS, ONE WEEK, AND 24 HOURS PRIOR TO BEGINNING ANY WORK OR CONSTRUCTION WITHIN A CITY STREET, THE CONTRACTOR SHALL DISTRIBUTE NOTICES OF CONSTRUCTION TO ALL RESIDENTS, BUSINESSES, PROPERTY OWNERS, TENANTS WITHIN 300 FEET OF AND ADJACENT TO THE PROJECT AREA AND CONSTRUCTION WORK. PROPOSED NOTICES OF CONSTRUCTION SHALL BE PROVIDED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO DISTRIBUTION BY THE CONTRACTOR AND SHALL INCLUDE THE FOLLOWING:
- SPECIFY THE EXPECTED DATE FOR START OF CONSTRUCTION, A GENERAL DESCRIPTION OF THE CONSTRUCTION ACTIVITY.
  - EXPECTED DURATION OF THE ACTIVITY, AND THE NAME, ADDRESS, AND 24-HOUR TELEPHONE NUMBER OF THE CONTRACTOR.
  - THE CONTRACTOR SHALL PROVIDE THE CITY WITH A LIST OF THE STREET ADDRESSES WHERE THE NOTICES WERE DISTRIBUTED.