Construction Notes

City of Mountain View • Public Works Department • Land Development Section
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The following construction notes are available in electronic format (AutoCAD 2000 or Microsoft Word 2000). Call the Land Development Section to receive the notes by e-mail.

CONSTRUCTION NOTES

PUBLIC WORKS DEPARTMENT, August 18, 2005

GENERAL

1. STANDARD PROVISIONS AND STANDARD SPECIFICATIONS:
ALL WORK SHALL BE IN ACCORDANCE WITH THE MARCH 2005 STANDARD PROVISIONS OF THE CITY OF MOUNTAIN VIEW AND THE LATEST EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS.

2. MAINTENANCE OF SITE DOCUMENTS:
THE CONTRACTOR SHALL KEEP AND MAKE AVAILABLE A COPY OF THE APPROVED PLANS AND CITY STANDARD PROVISIONS AT THE JOB SITE AT ALL TIMES WHEN WORK IS IN PROGRESS. THE STANDARD PROVISIONS MAY BE PURCHASED AT THE CITY OF MOUNTAIN VIEW, PUBLIC WORKS DEPARTMENT COUNTER, 500 CASTRO STREET, P.O. BOX 7540, MOUNTAIN VIEW, CA, 94039-7540, TELEPHONE (650) 903-6311, FAX (650) 903-6499. THE STANDARD PROVISIONS, WHICH INCLUDE THE STANDARD DETAILS, COSTS FIFTEEN DOLLARS AT THE COUNTER OR TWENTY DOLLARS BY MAIL, AS AMENDED.

3. PRIVATE DEVELOPMENT SPECIFICATIONS:
FOR PRIVATE DEVELOPMENTS, THE CITY DOES NOT REVIEW OR RECOGNIZE PRIVATE DEVELOPMENT PROJECT SPECIFICATIONS.

CONTROL OF WORK

4. CHANGES TO PLANS:
THE FOLLOWING APPLIES TO PLANS APPROVED BY THE PUBLIC WORKS DEPARTMENT. MAJOR CHANGES IN THE APPROVED PLANS MUST BE APPROVED BY THE ASSISTANT PUBLIC WORKS DIRECTOR ON THE ORIGINAL SIGNED PLANS PER SECTION 5-02 OF THE STANDARD PROVISIONS. EACH CHANGE IS TO BE DELINEATED BY MARKING THE CHANGED AREA OF THE PLAN WITH A NUMBERED TRIANGLE OR OTHER ACCEPTABLE METHOD. THE ENGINEER MUST DATE AND INITIAL EACH REVISION IN THE REVISION BLOCK. THE ENGINEER SHALL SUBMIT A COVER LETTER EXPLAINING THE REQUESTED CHANGE AND TWO COPIES OF THE REVISED SHEETS. AFTER THE CITY APPROVES AND INITIALS THE REVISION BLOCK, THE ENGINEER SHALL SUBMIT ONE 24" BY 36" XEROX MYLAR SET (4 MIL) AND THREE BLACK LINE COPIES OF THE SIGNED REVISED SHEETS TO THE CITY. FOR MINOR CHANGES, THE CONTRACTOR MAY "RED LINE" THE PROPOSED MINOR CHANGE ON THE PLAN AND SUBMIT THEM TO THE CITY FOR REVIEW AND APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CHANGES WITH THE ENGINEER WHO PREPARED THE PLANS AND SHALL KEEP APPROVED CHANGES AT THE JOB SITE WHEN WORK IS IN PROGRESS. ALL CHANGES SHALL BE SHOWN ON THE AS-BUILT PLANS SUBMITTED TO THE CITY AT THE END OF THE JOB. THE CITY SHALL HAVE THE SOLE DISCRETION TO DETERMINE WHAT IS A MINOR CHANGE. RELOCATION OF A

MANHOLE FROM THE SIDEWALK TO A LANDSCAPED AREA OR INTO THE STREET IS CONSIDERED A MINOR CHANGE THAT REQUIRES APPROVAL FROM THE PUBLIC WORKS OPERATIONS SECTION.

5. AS-BUILT PLANS:
THE FOLLOWING APPLIES TO PLANS APPROVED BY THE PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL KEEP COMPLETE AND ACCURATE RECORD DRAWINGS OF ALL NEW WORK, UTILITY POTHOLE DATA AND EXISTING CONDITIONS THAT HAVE CHANGED OR ARE DIFFERENT THAN SHOWN ON THE ORIGINALLY APPROVED PLANS. UPON COMPLETION OF THE WORK, THE CONTRACTOR'S RECORD DRAWINGS SHALL BE SUBMITTED TO THE CITY INSPECTOR FOR REVIEW AND COMMENT. THE ENGINEER SHALL MAKE THE NECESSARY REVISIONS TO THE ORIGINAL DRAWINGS TO SHOW ALL FIELD CHANGES. THE ENGINEER SHALL VERIFY FINAL GRADING AND SHALL SIGN THE GRADING CERTIFICATE, IF APPLICABLE, WHEN SATISFIED THAT THE GRADING IS PER APPROVED PLANS. EACH SHEET OF THE PLANS SHALL BE STAMPED "AS-BUILT" OR "RECORD DRAWING" AND SIGNED BY THE ENGINEER. THE REVISED ORIGINALS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL. PRIOR TO THE ACCEPTANCE OF THE WORK BY THE CITY, THE ENGINEER SHALL PROVIDE ONE 24" BY 36" XEROX MYLAR SET (4 MIL) OF THE APPROVED "AS-BUILT" PLANS TO THE CITY. ELECTRONIC FILES OF THE APPROVED "AS-BUILT" DRAWINGS IN BOTH AUTOCAD 2002 AND PDF FORMAT SHALL ALSO BE SUBMITTED TO THE CITY.

6. CONSTRUCTION SAFETY ORDERS FOR EXCAVATIONS:
THE CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE CONSTRUCTION SAFETY ORDERS OF THE STATE DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PERTAINING TO EXCAVATION AND TRENCHES PER SECTION 5-03 OF THE STANDARD PROVISIONS. FOR DEEP TRENCHES, THE CONTRACTOR SHALL SUBMIT TO THE CITY A COPY OF THEIR ANNUAL OR SINGLE PROJECT PERMIT FOR TRENCH AND EXCAVATIONS FROM THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS DIVISION OF OCCUPATIONAL SAFETY AND HEALTH.

7. NORMAL WORKING HOURS:
NORMAL WORKING HOURS IS DEFINED AS THE TIME FROM 7:30 A.M. TO 4:00 P.M., MONDAY THROUGH FRIDAY, EXCLUDING LEGAL HOLIDAYS. THE CONTRACTOR SHALL NOT WORK ON THE PROJECT OUTSIDE THE NORMAL WORKING HOURS, UNLESS PRIOR APPROVAL IS OBTAINED FROM THE CITY OR WHEN SPECIFICALLY REQUIRED BY THE CITY. WORK OUTSIDE NORMAL WORKING HOURS WILL ONLY BE ALLOWED IF A CITY INSPECTOR IS AVAILABLE. THE CONTRACTOR SHALL PAY THE CITY FOR THE COST OF OVERTIME FOR CITY INSPECTION PERFORMED OUTSIDE OF NORMAL WORKING HOURS PER SECTION 5-09 OF THE STANDARD PROVISIONS.

8. COORDINATION WITH OTHER AGENCIES:
THE CONTRACTOR SHALL BE RESPONSIBLE COORDINATING INSPECTION PERFORMED BY OTHER GOVERNMENTAL AGENCIES, AS PRESCRIBED IN THEIR PERMITS AND APPROVALS.

9. AIRBORNE DUST:
AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE IN SUCH A MANNER THAT IT WILL CONTAIN DUST PARTICLES TO THE IMMEDIATE SURFACE OF THE WORK PER SECTION 5-10 OF THE STANDARD PROVISIONS. THE CONTRACTOR SHALL PERFORM SUCH TREATMENT WITHIN 2 HOURS AFTER NOTIFICATION BY THE CITY THAT AN AIRBORNE NUISANCE EXISTS.

10. MAINTENANCE OF EQUIPMENT:
ALL EQUIPMENT AND PLANT SHALL BE MAINTAINED IN GOOD ORDER PER SECTION 5-13 OF THE STANDARD PROVISIONS. SUBSTANDARD OR UNSUITABLE PAVING EQUIPMENT WILL NOT BE ALLOWED.

11. FINAL INSPECTION:
THE CITY WILL NOT PERFORM THE FINAL INSPECTION UNTIL THE CONTRACTOR COMPLETES ALL WORK AND FINAL CLEANUP OF THE SITE PER SECTIONS 4-05 AND 5-14 OF THE STANDARD PROVISIONS.

12. MAINTENANCE OF WORK SITE:
THE CONTRACTOR SHALL KEEP THE STREET AND WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS PER SECTION 5-15 OF THE STANDARD PROVISIONS. THIS PROVISION REQUIRES PREVENTING SPILLAGE ON HAUL ROUTES, CLEANING UP SPILLAGE, SWEEPING ALL STREETS OF MUD, DIRT AND DEBRIS THAT ARE A RESULT OF THE CONTRACTOR'S WORK, AND KEEPING THE WORK SITE IN A CLEAN AND NEAT APPEARANCE. ANY SPILLAGE ON HAUL ROUTES SHALL BE IMMEDIATELY REMOVED AND CLEANED UP.

13. CLEANING SITE UPON NOTICE FROM CITY:
REGARDING SECTION 5-15 OF THE STANDARD PROVISIONS, WHEN ORDERED BY THE CITY, THE CONTRACTOR SHALL CLEAN UP THE WORK SITE WITHIN 24 HOURS AFTER RECEIVING NOTICE.

14. RESIDENTIAL OCCUPANCY RELEASE:
FOR RESIDENTIAL DEVELOPMENTS, NO RESIDENTIAL UNITS WILL BE RELEASED FOR OCCUPANCY UNLESS THE IMPROVEMENTS TO BE CONSTRUCTED TO CITY STANDARDS AND/OR TO BE ACCEPTED FOR MAINTENANCE BY THE CITY, INCLUDING WATER METERS AND SANITARY SEWER CLEANOUTS, ARE SUBSTANTIALLY COMPLETE PER THE CITY OF MOUNTAIN VIEW STANDARD PROVISIONS FOR PUBLIC WORKS CONSTRUCTION. FOR PHASED DEVELOPMENTS, PORTIONS OF THE UNITS MAY BE RELEASED FOR OCCUPANCY, AT THE CITY'S SOLE DISCRETION, PROVIDED THAT ALL PUBLIC AND PRIVATE IMPROVEMENTS, CONDITIONS OF APPROVAL, AND BUILDING CODE REQUIREMENTS THAT ARE NECESSARY TO SUPPORT THE UNITS TO BE RELEASED FOR OCCUPANCY HAVE BEEN COMPLETED AS DETERMINED BY THE CITY. WHEN ALL OF THE IMPROVEMENTS ARE COMPLETE AND/OR READY FOR ACCEPTANCE FOR MAINTENANCE BY THE CITY COUNCIL, THE REMAINING UNITS MAY BE RELEASED FOR OCCUPANCY, PROVIDED THAT ALL OTHER CONDITIONS OF APPROVAL AND BUILDING CODES REQUIREMENTS HAVE BEEN MET. THE PUBLIC WORKS DIRECTOR SHALL MAKE THE DETERMINATION OF WHAT PUBLIC IMPROVEMENTS ARE SUBSTANTIALLY COMPLETE.

15. NON-RESIDENTIAL OCCUPANCY RELEASE:
FOR COMMERCIAL AND OFFICE DEVELOPMENTS, NO BUILDINGS WILL BE RELEASED FOR OCCUPANCY UNTIL THE OFF-SITE IMPROVEMENTS TO BE CONSTRUCTED TO CITY PUBLIC WORKS STANDARDS AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY ARE COMPLETE AND READY FOR ACCEPTANCE.

16. ACCEPTANCE OF WORK, BOND REDUCTION AND RELEASE:
FOR IMPROVEMENTS THAT ARE INSTALLED BY A DEVELOPER WITH AN IMPROVEMENT AGREEMENT, THE IMPROVEMENT SECURITIES MAY, AT THE DISCRETION OF THE CITY, BE REDUCED UP TO 25% OF THEIR VALUES UPON ACCEPTANCE OF THE IMPROVEMENT BY THE CITY COUNCIL IN ACCORDANCE WITH THE IMPROVEMENT AGREEMENT. AFTER ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY, COMPLETION OF THE ONE-YEAR MAINTENANCE AND GUARANTEE PROVISIONS (OR LONGER IF STIPULATED IN THE CONDITIONS AND

AGREEMENT), AND COMPLETION OF ALL OTHER OBLIGATIONS AND REQUIREMENTS, THE REMAINING IMPROVEMENT SECURITIES SHALL BE RELEASED BY THE CITY IN ACCORDANCE WITH THE IMPROVEMENT AGREEMENT. SEE SECTION 4-06 OF THE STANDARD PROVISIONS REGARDING THE ONE-YEAR MAINTENANCE AND GUARANTY PERIOD RELATING TO STREET AND UTILITY IMPROVEMENTS.

CONTROL OF MATERIAL

17. COMPACTION TESTS:
THE CONTRACTOR SHALL HIRE A TESTING LABORATORY, APPROVED BY THE CITY, TO PERFORM COMPACTION TESTS OF AGGREGATE BASE, AGGREGATE SUB-BASE AND SUB-GRADE TO THE SATISFACTION OF THE CITY. THE TEST RESULTS SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY AC OR PCC PAVING. AC PAVING SHALL BE TESTED WITH A NUCLEAR GAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL TESTING.

18. CONCRETE MATERIAL TAGS:
PLANT MATERIAL TAGS FOR PORTLAND CONCRETE CEMENT SHALL BE SUBMITTED TO THE CITY PER SECTION 6-01 OF THE STANDARD PROVISIONS.

LEGAL RELATIONS AND RESPONSIBILITY

19. STATE AND CITY LICENSES:
ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA AND SHALL HAVE AND MAINTAIN A VALID CITY BUSINESS LICENSE, PER SECTION 7-01.C AND 8-01 OF THE STANDARD PROVISIONS.

20. COMPLIANCE WITH ENVIRONMENTAL DOCUMENTS:
THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL PERMITS, LICENSES OR OTHER AUTHORIZATIONS APPLICABLE TO THE WORK WITH RESPECT TO THE ENVIRONMENTAL QUALITY ACT PER SECTION 7-02 OF THE STANDARD PROVISIONS.

21. PUBLIC CONVENIENCE AND ACCESS:
ALL WORK SHALL BE PLANNED AND CARRIED OUT SO THAT THERE WILL BE THE LEAST POSSIBLE INCONVENIENCE TO THE TRAVELING PUBLIC, AND TRAFFIC SHALL NOT BE UNREASONABLY DELAYED PER SECTION 7-04 OF THE STANDARD PROVISIONS. DRIVEWAY ACCESS SHALL BE MAINTAINED TO EACH PROPERTY AT ALL TIMES.

22. MAINTAIN TRAFFIC CONTROL DEVICES:
THE CONTRACTOR SHALL INSTALL AND MAINTAIN FENCES, BARRIERS, LIGHTS AND SIGNS THAT ARE NECESSARY TO GIVE ADEQUATE WARNING TO THE PUBLIC AT ALL TIMES PER SECTION 7-05 OF THE STANDARD PROVISIONS IN ACCORDANCE WITH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION'S TRAFFIC CONTROL MANUAL.

23. REMOVE MATERIAL AND EQUIPMENT AT END OF DAY:
NO MATERIAL OR EQUIPMENT SHALL BE STORED IN THE PUBLIC RIGHT-OF-WAY AFTER "NORMAL WORKING HOURS". SEE SECTIONS 5-15 AND 7-05 OF THE STANDARD PROVISIONS. AT THE END OF EACH DAY'S WORK AND AT OTHER TIMES WHEN CONSTRUCTION OPERATIONS ARE SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND OTHER OBSTRUCTIONS FROM THE PUBIC RIGHT-OF-WAY.

24. HAZARDOUS MATERIALS AND WASTE:
ALL WORK SHALL BE CONDUCTED IN A MANNER WHICH PREVENTS THE RELEASE OF HAZARDOUS MATERIALS OR HAZARDOUS WASTE TO THE SOIL OR GROUNDWATER, AND

MINIMIZES THE DISCHARGE OF HAZARDOUS MATERIALS, HAZARDOUS WASTES, POLLUTED WATER AND SEDIMENTS TO THE STORM DRAIN SYSTEM PER SECTION 7-08.01 OF THE STANDARD PROVISIONS.

25. COORDINATION WITH OTHER CONTRACTORS:
WHERE TWO OR MORE CONTRACTORS ARE WORKING IN THE SAME AREA, EACH SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANOR AS NOT TO CAUSE ANY UNNECESSARY DELAY OR HINDRANCE TO THE OTHER PER SECTION 7-09 OF THE STANDARD PROVISIONS. WHERE CONFLICTS CANNOT BE AVOIDED, THE CITY WILL DETERMINE WHICH CONTRACTORS HAVE CONSTRUCTION PRIORITY OVER THE OTHER CONTRACTORS AND THE TERMS OF SUCH CONSTRUCTION PRIORITY.

26. NOISE WORKING HOUR RESTRICTIONS:
IN ORDER TO LIMIT DISTURBING NOISES, CONSTRUCTION WORK SHALL OCCUR ONLY BETWEEN THE HOURS OF 7:30 A.M. AND 4:00 P.M., MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS. WORK OUTSIDE OF THESE HOURS IS PROHIBITED, UNLESS THE CITY GRANTS AN EXCEPTION. EXCEPTIONS WILL BE CONSIDERED ONLY WHEN, IN THE OPINION OF THE PUBLIC WORKS DIRECTOR, CONSTRUCTION DURING NORMAL CONSTRUCTION HOURS WOULD INCONVENIENCE THE PUBLIC AND NEIGHBORING RESIDENTS MORE THAN WORKING OUTSIDE OF THESE HOURS. EXCEPTIONS WILL NOT BE GRANTED MERELY TO EXPEDITE THE CONSTRUCTION WORK.

NOTIFICATION

27. DANGEROUS SITUATIONS, CALL 911:
IF ANY DAMAGE OCCURS TO AN UNDERGROUND FACILITY THAT RESULTS IN THE ESCAPE OF ANY FLAMMABLE, TOXIC OR CORROSIVE GAS OR LIQUID OR ENDANGERS LIFE, HEALTH, OR PROPERTY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND CALL THE 911 EMERGENCY TELEPHONE NUMBER TO NOTIFY LOCAL PUBLIC SAFETY OFFICIALS.

28. PROVIDE SUPERINTENDENT INFORMATION BEFORE START OF WORK:
THE CONTRACTOR SHALL PROVIDE THE NAME AND TELEPHONE NUMBER OF THE AUTHORIZED REPRESENTATIVE (SUPERINTENDENT) OF THE WORK TO THE CITY IN WRITING PRIOR TO THE START OF WORK PER SECTION 5-07 OF THE STANDARD PROVISIONS. PUBLIC WORKS CONSTRUCTION SECTION: TELE. (650) 903-6311 AND FAX (650) 903-6499.

29. CALL PUBLIC WORKS INSPECTORS PRIOR TO START OF WORK:
CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DIRECTOR AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING WORK, RESUMING SUSPENDED WORK, OR RESUMING WORK AFTER THREE DAYS OF NO WORK SO THAT INSPECTION CAN BE ARRANGED PER SECTIONS 5-09 AND 10-01.01 OF THE STANDARD PROVISIONS. PUBLIC WORKS CONSTRUCTION SECTION: TELE. (650) 903-6311 AND FAX (650) 903-6499.

30. ROAD DETOURS, NOTIFY EMERGENCY COMMUNICATION CENTER:
CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH THE CITY EMERGENCY COMMUNICATIONS CENTER AT (650) 903-6395 AND KEEP THE CENTER INFORMED DAILY REGARDING DETOURS PER SECTIONS 10-01.02 AND 10-01.03 OF THE STANDARD PROVISIONS.

31. CONTACT USA:
CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 642-2444 AT LEAST TWO WORKING DAYS BUT NOT MORE THAN 14 DAYS PRIOR TO COMMENCING EXCAVATION WORK TO VERIFY EXISTING UNDERGROUND UTILITIES, PER SECTION 5-11.02 OF

THE STANDARD PROVISIONS AND CHAPTER 3.1, DIVISION 5, TITLE 1 OF THE GOVERNMENT CODE.

32. NOTIFY UTILITY OWNERS:
CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS FORTY-EIGHT HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY PER SECTIONS 5-11.02 AND 10-01 OF THE STANDARD PROVISIONS.

33. NOTIFY ADJACENT PROPERTIES:
CONTRACTOR SHALL NOTIFY THE ADJACENT RESIDENCES AND BUSINESS IN WRITING DESCRIBING THE NATURE OF THE WORK, SCHEDULE OF THE WORK, WHEN PARKING WILL BE PROHIBITED (IF ANY), AND WHO TO CALL AT THE CONTRACTOR'S OFFICE IF THEY HAVE QUESTIONS ABOUT THE WORK. THE CITY PRIOR TO ITS DISTRIBUTION MUST APPROVE THE NOTICE. THE CONTRACTOR MUST DISTRIBUTE THE NOTICE TO THE ADJACENT RESIDENCES AND BUSINESS AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION WORK. FOR LARGE PROJECTS, THE WORK AREA, PARKING PROHIBITION REQUIREMENTS AND SCHEDULE SHALL BE DIVIDED UP INTO SMALLER, MORE MANAGEABLE AREAS. IN THE EVENT THE PARKING PROHIBITION SCHEDULE CHANGES AFTER THE NOTIFICATION, CONTRACTOR SHALL POST A NEW NOTICE OF THE REVISED SCHEDULE AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION. FOR WORK REQUESTED BY THE PROPERTY OWNER, A NOTICE TO THE PROPERTY OWNER IS NOT REQUIRED.

34. NO PARKING SIGN NOTIFICATION:
UPON POSTING TEMPORARY NO PARKING SIGNS ON A STREET, CONTRACTOR SHALL NOTIFY THE EMERGENCY COMMUNICATIONS CENTER AT 650-903-6395 OF STREETS THAT HAVE BEEN POSTED WITH NO PARKING SIGNS. THE SIGNS SHALL BE POSTED AT LEAST 48 HOURS IN ADVANCE.

35. STREET CLOSURE NOTIFICATION:
IN THE EVENT OF A STREET CLOSURE AND DETOUR THAT IS THREE OR MORE CONSECUTIVE DAYS IN DURATION AND IS CAUSED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE U.S. POSTAL SERVICES CUSTOMER SERVICES MANAGER AT (650) 967-5721 TWENTY FOUR HOURS PRIOR TO THE STREET CLOSURE.

STREET IMPROVEMENTS

36. GRADING NOTES:
THE CITY SHALL BE PROVIDED WITH GRADING NOTES SHOWING CUTS AND FILLS FOR ALL IMPROVEMENTS TO BE INSPECTED BY THE CITY.

37. PLACE UTILITIES BEFORE BASE ROCK:
ALL UNDERGROUND UTILITIES SHALL BE COMPLETED BEFORE PLACING OF BASE ROCK, UNLESS THE CITY GRANTS AN EXCEPTION.

38. 5 DAYS TO REPLACE CONCRETE IMPROVEMENTS:
ALL EXISTING CURBS, GUTTERS, SIDEWALKS AND DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED WITHIN 5 DAYS AFTER THEIR REMOVAL, UNLESS THE CITY GRANTS AN EXCEPTION. SEE SECTION 22-04 OF THE STANDARD PROVISIONS.

39. PEDESTRIAN ACCESS:
WHERE PRACTICABLE AS DETERMINED BY THE CITY, THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ALONG WALKWAYS, INCLUDING PUBLIC SIDEWALKS, AT ALL TIMES. THE CITY'S PUBLIC WORKS INSPECTOR MUST APPROVE SIDEWALK CLOSURES IN ADVANCE.

WALKWAYS SHALL BE REOPENED AT THE END OF EACH WORKING DAY. WELL-COMPACTED BASE ROCK MAY BE USED AS A TEMPORARY WALKING SURFACE.

40. INSPECTION OF CONCRETE FORMS:
THE CITY MUST APPROVE CONCRETE FORMS, BEFORE THE POURING OF CONCRETE PER SECTION 22-06 OF THE STANDARD PROVISIONS. CONCRETE POURED PRIOR TO INSPECTION IS SUBJECT TO REJECTION AND REMOVAL.

41. "S" AND "W" CURB MARKINGS:
DURING CONCRETE PLACEMENT, THE CONTRACTOR SHALL MARK FACE OF CURB WITH A LETTER "S" FOR SEWER LATERALS AND A LETTER "W" FOR WATER SERVICES PER SECTION 22-09.01 OF THE STANDARD PROVISIONS.

42. AC GUTTER CONFORMS:
NEW GUTTER REQUIRES A HAIRLINE AC SAWCUT ALONG THE EDGE OF THE PAVEMENT OR A 1' WIDE AC PAVEMENT CONFORM PER SECTION 22-09.01, AS DIRECTED BY CITY INSPECTOR.

43. SIDEWALK REPLACEMENT:
SIDEWALKS SHALL BE REPLACED BY SAWCUTTING ALONG SCORE MARKS, THEN REMOVING AND REPLACING THE ENTIRE WIDTH OF THE SIDEWALK OVER 3" AGGREGATE BASE AND INSTALLING NO. 4 DOWELS (9" MAXIMUM LENGTH) AT 3' ON CENTERS, PER SECTION 22 OF THE STANDARD PROVISIONS. THE DOWELS ARE TO BE DRILLED 3" INTO THE EXISTING CURB AND REMAINING SIDEWALK AND EPOXIED IN PLACE.

EXCAVATIONS

44. UTILITY INSPECTION REQUIREMENT:
ALL CITY APPURTENANCES MUST BE INSPECTED BY THE CITY PRIOR TO BACKFILLING ANY TRENCHES OR POURING ANY CONCRETE.

45. EXCAVATIONS:
AT THE END OF THE EACH WORK DAY, ALL EXCAVATIONS WITHIN THE STREET AND TRAVEL WAY SHALL BE: (1) BACKFILLED AND PAVED WITH TEMPORARY PAVING SUCH THAT THE FINISHED SURFACE IS FLUSH WITH THE EXISTING PAVEMENT, (2) ADEQUATELY COVERED WITH STEEL PLATE BRIDGING, OR (3) BACKFILLED AND PAVED WITH PERMANENT PAVING. IF STEEL PLATE BRIDGING IS USED, THE STEEL PLATE BRIDGING MUST BE REMOVED WITHIN 48 HOURS AFTER ITS INSTALLATION. CONTROL DENSITY FILL SHALL NOT BE USE AS TEMPORARY AC PAVING.

46. "T" TRENCH CUT:
A "T" TRENCH CUT IS REQUIRED PER DETAIL A-18 OF THE STANDARD PROVISIONS. STREET PAVEMENT REMOVED SHALL BE REPLACED IN KIND OR WITH A MINIMUM SECTION OF 2.5"AC ON 12" AB, WHICH EVER IS GREATER, WITH RESPECT TO THE PERMANENT PAVING.

47. PIPE BEDDING AND BACKFILL:
UNIFORMLY GRADED SAND SHALL NOT BE USED FOR PIPE BEDDING OR EXCAVATION BACKFILL, AS THIS MATERIAL WILL FAIL UPON RE-EXCAVATION. PIPE BEDDING MATERIAL SHALL CONFORM TO SELECT (INITIAL) BACKFILL MATERIAL, AND SUBSEQUENT TRENCH BACKFILL MATERIAL SHALL BE CLASS 2 AGGREGATE BASE PER SECTIONS 24-02.01 AND 24-04.03 AND DETAIL A-18 OF THE STANDARD PROVISIONS.

48. CONTROL DENSITY FILL:

CONTROLLED DENSITY FILL (SECTION 24-02.04 OF THE STANDARD PROVISIONS) MAY BE USED AS SUBSEQUENT BACKFILL MATERIAL ONLY WHEN SPECIFICALLY APPROVED BY THE CITY. CONTROLLED DENSITY FILL SHALL NOT BE USED AS PIPE BEDDING MATERIAL, UNLESS AN EXCEPTION IS GRANTED BY THE CITY.

49. STEEL PLATE BRIDGING:
STEEL PLATE USED FOR TRENCH BRIDGING MUST HAVE A NONSKID SURFACE WITH A MINIMUM COEFFICIENT OF FRICTION OF 0.35 AND MUST EXTEND A MINIMUM OF 12 INCHES BEYOND THE EDGE OF A TRENCH. STEEL PLATE BRIDGING SHALL BE INSTALLED TO OPERATE WITH MINIMUM NOISE. WHERE MORE THAN ONE PLATE IS USED, THE PLATES SHALL BE BUTTED FLUSH TO EACH OTHER AND ATTACHED TOGETHER BY WELDING OR OTHER METHOD APPROVED BY THE CITY. FOR LONGITUDINAL PLACEMENT, THE APPROACH PLATE(S) AND ENDING PLATE(S) SHALL BE ATTACHED TO THE ROADWAY BY A MINIMUM OF TWO DOWELS PREDRILLED INTO THE CORNERS OF THE PLATE AND DRILLED 2 INCHES INTO THE PAVEMENT. WHEN STEEL PLATES ARE REMOVED, THE DOWEL HOLES IN THE PAVEMENT SHALL BE BACKFILLED WITH EITHER GRADED FINES OF ASPHALT CONCRETE MIX, CONCRETE SLURRY OR EQUIVALENT SLURRY APPROVED BY THE CITY. STEEL PLATE BRIDGING SHALL BE STEEL PLATE DESIGNED FOR HS20-44 TRUCK LOADING PER CALTRANS BRIDGE DESIGN SPECIFICATION MANUAL.

TRENCH WIDTH	MINIMUM STEEL PLATE THICKNESS
1.0'	1/2"
1.5'	3/4"
2.0'	7/8"
3.0'	1"
4.0'	1-1/4"

THE TRENCH SHALL BE ADEQUATELY SHORED TO SUPPORT THE BRIDGING AND TRAFFIC LOADS. TEMPORARY PAVING WITH HOT ASPHALT CONCRETE SHALL BE USED TO FEATHER THE EDGES OF THE PLATES. FINE GRADED ASPHALT CONCRETE SHALL BE COMPACTED TO FORM RAMPS WITH A MAXIMUM SLOPE OF 8.5 PERCENT AND WITH A MINIMUM 12 INCH TAPER TO COVER ALL EDGES OF THE STEEL PLATES. THE CONTRACTOR SHALL MAINTAIN THE STEEL PLATES, SHORING AND ASPHALT CONCRETE RAMPS IN GOOD ORDER. THE STEEL PLATES BRIDGING SHALL BE REMOVED WITHIN 48 HOURS AFTER THEIR INSTALLATION.

50. REPLACEMENT OF AC BETWEEN EXCAVATION AND EDGE OF PAVEMENT:
ON ARTERIAL STREETS, COLLECTOR STREETS, STREETS THAT HAVE BEEN RESURFACED WITH AC WITHIN THE LAST FIVE YEARS, OR WHEN REQUIRED BY CITY, THE CONTRACTOR SHALL REMOVE AND REPLACE ALL INTERVENING AC PAVING FOR TRENCHES AND EXCAVATIONS LOCATED WITHIN 6 FEET OF THE EDGE OF THE PAVEMENT. ON MINOR STREETS, THE CONTRACTOR SHALL REMOVE AND REPLACE ALL INTERVENING AC PAVING FOR TRENCHES AND EXCAVATIONS LOCATED WITHIN 3 FEET OF THE EDGE OF THE PAVEMENT PURSUANT TO SECTION 24.03.01 OF THE STANDARD PROVISIONS.

51. REPLACEMENT OF AC BETWEEN TWO EXCAVATIONS:
WHERE TRENCHES OR EXCAVATIONS ARE ADJACENT TO EACH OTHER, THE INTERVENING PAVEMENT LOCATED BETWEEN THE EDGES OF THE "T" TRENCH SHALL BE REPLACED IF THE WIDTH OF THE INTERVENING PAVEMENT IS LESS THAN 6'.

52. VAULT EXCAVATION AND BACKFILL:
VAULT EXCAVATIONS SHALL NOT BE BACKFILLED WITH SAND. THE DISTANCE BETWEEN THE VAULT AND SIDE OF THE EXCAVATION SHALL BE SUFFICIENTLY WIDE TO ALLOW PROPER COMPACTION OF THE AGGREGATE BASE BACKFILL MATERIAL. COMPACTION TESTS OF THE

BACKFILL MATERIAL ARE REQUIRED, PARTICULARLY ON LARGE VAULTS, EXCEPT WHEN CONTROL DENSITY FILL MATERIAL IS APPROVED AND USED AS BACKFILL MATERIAL. UNEVEN PAVING AROUND NEW MANHOLES LOCATED WITHIN THE STREET OR SIDEWALK WILL NOT BE ACCEPTED. THE GRADE OF THE PAVING SURFACE AROUND THE MANHOLES SHALL BE FLAT, MATCHING THE EXISTING GRADE, AND SHALL BE NO WORSE THEN THE EXISTING GRADE OF THE STREET OR SIDEWALK BEFORE MANHOLE WAS INSTALLED.

53. VAULT LIDS AND FRAMES:
ALL BOXES AND VAULTS PLACED IN THE SIDEWALK AREA SHALL HAVE A CONCRETE TYPE OF FINISH (POLYMER LIDS AND FRAMES ARE ACCEPTABLE). BOXES AND VAULTS LOCATED WITHIN DRIVEWAYS SHALL BE TRAFFIC RATED BOXES AND LIDS FOR AT LEAST H20 TRAFFIC LOADS.

54. VAULTS, UTILITY RELOCATION:
WHERE PROPOSED VAULTS CONFLICT WITH MINOR LINES, SUCH AS A STREET LIGHT CONDUIT, THE CONFLICTING CONDUIT MAY, AT THE DISCRETION OF THE CITY, NEED TO BE RELOCATED IN LIEU OF RELOCATING THE VAULT.

55. AC PAVING MACHINE:
FOR EXCAVATIONS WITHIN PAVED AREAS THAT ARE MORE THAN 8 FEET WIDE, THE AC SURFACING SHALL BE INSTALLED WITH AN AC PAVING MACHINE.

56. COVER REQUIREMENTS:
A MINIMUM COVER OF 30" WITHIN TRAVELWAYS AND 18" WITHIN SIDEWALK AREAS AS MEASURED FROM THE TOP OF PIPE TO GROUND SURFACE IS REQUIRED FOR THE PROPOSED EXCAVATION WITHIN THE RIGHT-OF-WAY. PROVIDE ADDITIONAL COVER TO PLACE THE UTILITY BELOW THE PAVEMENT STRUCTURAL SECTION.

57. PAVEMENT STRIPING DAMAGE:
PAVEMENT STRIPING DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND BY THE CONTRACTOR.

SIGNS

58. STREET NAME SIGNS:
STREET NAME SIGNS SHALL BE INSTALLED ON ALL PUBLIC AND PRIVATE STREETS PER STANDARD DETAIL A-13 AND SECTION 29 OF THE STANDARD PROVISIONS. PUBLIC STREET NAME SIGNS SHALL HAVE 4-INCH WHITE REFLECTIVE, TYPE B LETTERS ON BLUE REFLECTIVE BACKGROUND ON A 6-INCH TALL, 0.080-INCH THICK ALUMINUM PLATE. PRIVATE STREET NAME SIGNS SHALL HAVE 4-INCH WHITE REFLECTIVE, TYPE B LETTERS ON A GREEN REFLECTIVE BACKGROUND ON A 0.080-INCH THICK ALUMINUM PLATE. PRIVATE STREET NAME SIGNS SHALL INCLUDE THE PHRASE "PRIVATE ST". THE CITY TRAFFIC ENGINEER MUST APPROVE PRIVATE STREET NAMES IN ADVANCE.

WATER FOR CONSTRUCTION

59. CONSTRUCTION WATER PERMIT:
A PERMIT FOR THE USE OF CITY WATER IS REQUIRED PER SECTION 30-01 OF THE STANDARD PROVISIONS. PERMITS, BACKFLOW PREVENTION DEVICES AND METERS ARE ISSUED AT THE MUNICIPAL OPERATIONS CENTER AT 231 NORTH WHISMAN ROAD. CONTACT THE METER SHOP AT (650) 903-6329 FOR FURTHER INFORMATION.

STORM DRAINS

60. STORM LINE VIDEO TAPING:
IN ADDITION TO OTHER REQUIREMENTS SPECIFIED IN SECTION 31 OF THE STANDARD PROVISIONS, THE CONTRACTOR SHALL VIDEO TAPE NEW STORM DRAINS PER SECTIONS 31-03.07 OF THE STANDARD PROVISIONS. THE VIDEO TAPING REQUIREMENTS ALSO REQUIRES THE VIDEO TAPE AND LOG SHEETS TO BE SUBMITTED TO AND APPROVED BY THE CITY PRIOR TO THE INSTALLATION OF THE FINAL LIFT OF AC PAVING. APPROVAL OF THE TAPES AND LOG SHEETS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO REPAIR DEFECTIVE WORK AND MATERIALS.

SANITARY SEWERS

61. PVC SANITARY SEWER LATERALS:
ALL NEW SANITARY SEWER LATERALS SHALL BE CONSTRUCTED OF PVC IN ACCORDANCE WITH SECTION 32-02.02 OF THE STANDARD PROVISIONS, UNLESS THE CITY AUTHORIZES THE USE OF VCP.

62. TESTING, CLEANING AND VIDEO TAPING SEWER LINES:
THE CONTRACTOR SHALL COMPLETE ALL TESTING OF SANITARY SEWER PIPES PER SECTION 32 OF THE STANDARD PROVISIONS. THIS PROVISION REQUIRES THE CONTRACTOR TO PERFORM EXFILTRATION AND INFILTRATION TESTING, FLUSH AND CLEAN THE LINES, VIDEO TAPE THE NEW SANITARY SEWER PIPES PRIOR TO THE INSTALLATION OF THE FINAL LIFT OF AC PAVING PER SECTION 32-03.10 OF THE STANDARD PROVISIONS, AND PERFORM OTHER REQUIREMENTS AS WELL. THE VIDEO TAPING REQUIREMENTS ALSO REQUIRES THE VIDEO TAPE AND LOG SHEETS TO BE SUBMITTED TO AND APPROVED BY THE CITY PRIOR TO THE INSTALLATION OF THE FINAL LIFT OF AC PAVING. APPROVAL OF THE TAPES AND LOG SHEETS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO REPAIR DEFECTIVE WORK AND MATERIALS.

WATER MAINS AND SERVICES

63. WATER INTERRUPTIONS AND NOTIFICATIONS:
SERVICE IN EXISTING WATER MAINS CAN BE INTERRUPTED ONLY UPON AUTHORIZATION OF THE CITY PER SECTIONS 33-03 AND 33-03.09 OF THE STANDARD PROVISIONS. THE CONTRACTOR SHALL SCHEDULE A VALVE CLOSURE AT LEAST TWO WORKING DAYS IN ADVANCE WITH THE CITY CONSTRUCTION INSPECTORS, AT (650) 903-6311. THESE PROVISIONS REQUIRE THE CONTRACTOR TO NOTIFY ALL AFFECTED USERS IN WRITING AT LEAST FORTY-EIGHT HOURS IN ADVANCE OF SERVICE INTERRUPTION USING PRINTED FORMS PROVIDED BY THE CITY. WATER DIVISION PERSONNEL SHALL ONLY DO MANIPULATION OF WATER VALVES.

64. PVC WATER MAINS AND SERVICES:
ALL 4-INCH (100 MM) THROUGH 12-INCH (300 MM) WATER MAINS AND SERVICES SHALL BE CONSTRUCTED OF PVC IN ACCORDANCE WITH SECTIONS 33-02.02 AND 34-02.03 OF THE STANDARD PROVISIONS, UNLESS THE CITY AUTHORIZES THE USE OF DIP.

65. WATER FITTINGS:
NEW FITTINGS ON DIP AND PVC WATER AND FIRE MAINS AND SERVICES SHALL BE FUSION EPOXY-COATED IN LIEU OF THE CEMENT INTERIOR LINING REQUIRED IN SECTIONS 33-02.03, 33-02.04 AND 34-02.03 OF THE STANDARD PROVISIONS.

66. METER BOXES:

ONE-INCH WATER METER BOXES SHALL BE USED FOR WATER METERS THAT ARE SMALLER THAN ONE-INCH. SEE SECTION 34-02.08 OF THE STANDARD PROVISIONS.

STREET LIGHTS

67. NON-GALVANIZED STREETLIGHT POLES:
ELECTROLIER STANDARDS (TYPE-15 STREET LIGHT POLES) SHALL NOT BE GALVANIZED. SEE SECTION 35-02.03 OF THE STANDARD PROVISIONS.

68. POST TOP STREETLIGHT PAINT COLOR:
POST TOP (TYPE B) STREETLIGHTS IN THE DOWNTOWN AREA SHALL PAINTED SEMI-GLOSS BLACK (TRESCO SATIN AQUALLOY BLACK # 1156) OR AS REQUIRED BY CITY.

TREES

69. TREE REMOVAL PERMIT:
A TREE REMOVAL PERMIT IS REQUIRED BEFORE ANY STREET TREE CAN BE REMOVED, AND A HERITAGE TREE REMOVAL PERMIT IS REQUIRED BEFORE ANY HERITAGE TREE CAN BE REMOVED. FOR DEVELOPMENT RELATED TREE REMOVALS, CONTACT THE COMMUNITY DEVELOPMENT DEPARTMENT AT (650) 903-6306. FOR NON-DEVELOPMENT RELATED TREE REMOVALS, CONTACT THE COMMUNITY SERVICES DEPARTMENT, FORESTRY AND ROADWAY LANDSCAPE DIVISION, AT (650) 903-6273.

CATHODIC PROTECTION

70. CATHODIC PROTECTION OF NEW SERVICES AND MAINS:
ALL NEW COPPER AND DIP WATER SERVICES, DIP FIRE SERVICES AND DIP WATER MAINS SHALL BE CATHODICALLY PROTECTED PER SECTION 38 OF THE STANDARD PROVISIONS AND STANDARD DETAILS D-18 THROUGH D-38.

TRAFFIC SIGNALS

71. WORK NEAR TRAFFIC SIGNAL, NOTIFICATION:
THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER TWO WORKING DAY PRIOR TO DOING ANY WORK NEAR SIGNALIZED INTERSECTION THAT IS MAINTAINED BY THE CITY TO DETERMINE IF THE SIGNAL NEEDS TO BE SWITCHED FROM AUTOMATIC TO MANUAL MODE. THIS ALSO APPLIES TO NON-EXCAVATION WORK WHERE THE CONTRACTOR'S EQUIPMENT EFFECTS THE OPERATION OF THE DETECTOR LOOPS.

72. TRAFFIC SIGNAL LOOP REPLACEMENT:
TRAFFIC SIGNAL DETECTOR LOOPS THAT ARE DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH NEW DETECTOR LOOPS IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS AND PROVISIONS. THE DETECTOR LOOP REPLACEMENT WORK SHALL BE PERFORMED BY A LOCAL QUALIFIED CONTRACTOR WITH EXPERIENCE IN THE INSTALLATION OF DETECTOR LOOPS. (REPUBLIC ELECTRIC, ST. FRANCIS ELECTRIC, MIKE BROWN ELECTRIC OR OTHER CITY APPROVED CONTRACTOR.) PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH ONE OR MORE OF THE ABOVE TRAFFIC SIGNAL CONTRACTORS TO REPLACE THE DAMAGED DETECTOR LOOPS.

73. TRAFFIC SIGNAL LOOP REPLACEMENT WITHIN 72 HOURS:

ALL DAMAGED TRAFFIC SIGNAL DETECTION LOOPS SHALL BE REPLACED WITHIN 72 HOURS OF THEIR DAMAGE, UNLESS THE CITY GRANTS AN EXCEPTION. THIS REQUIRES PERMANENT PAVING OF TRENCHES TO BE INSTALLED PRIOR TO REPLACEMENT OF THE DETECTOR LOOPS.

BUS STOPS

74. BUS STOP OPERATIONS:
THE CONTRACTOR'S WORK SHALL NOT INTERFERE WITH THE OPERATIONS OF EXISTING BUS STOPS, UNLESS THE CITY AND VALLEY TRANSPORTATION AGENCY GRANT AN EXCEPTION. IN ORDER FOR AN EXCEPTION TO BE GRANTED BY THE CITY, THE CONTRACTOR MUST APPLY FOR THE BUS STOP CLOSURE WELL IN ADVANCE OF THE CLOSURE AND SHOW GOOD CAUSE AT TO WHY THE CLOSURE OF THE BUS STOP IS NECESSARY. THE CONTRACTOR MAY BE REQUIRED TO CONSTRUCT A TEMPORARY BUS STOP OR INSTALL APPROPRIATE DETOUR SIGNS.

GARBAGE COLLECTION ROUTES

75. GARBAGE ROUTE OPERATIONS:
FOR ANY WORK ON OR ADJACENT TO GARBAGE AND RECYCLING COLLECTION ROUTES, THE CONTRACTOR SHALL ALLOW GARBAGE TRUCKS TO SAFELY PASS THROUGH THE CONTRACTOR'S SITE AT ALL TIMES, UNLESS AN EXCEPTION IS GRANTED BY THE CITY.

UNDERGROUND CONDUITS-TELECOMMUNICATIONS, ETC.

76. UTILITY COMPANY NAME ON LIDS OR COVERS:
ALL UTILITY COMPANY VAULTS AND MANHOLES MUST HAVE THE UTILITY COMPANY'S NAME ON THE LID OR COVER.

77. AS-BUILT DEPTHS AND LOCATION:
THE ACTUAL DEPTH AND HORIZONTAL OFFSETS OF NEW UTILITY CONDUITS SHALL BE SHOWN ON THE AS-BUILT PLANS AT INTERVALS OF 20 FEET OR LESS. ALL FINAL PROFILES WITH EXISTING PIPE AND DEPTH INFORMATION SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS. ALL POT-HOLE EXCAVATION LOCATION AND DATA SHALL BE SHOWN ON THE AS-BUILT PLANS.

78. ONE-HALF FOOT PLACEMENT ACCURACY:
ALL CONDUITS INSTALLED BY TRENCHING, DIRECTIONAL BORING AND MICRO TUNNELING METHODS SHALL BE INSTALLED WITHIN ONE-HALF FOOT OF THE HORIZONTAL ALIGNMENT SHOWN ON THE PLANS, UNLESS THE CITY APPROVES AN EXCEPTION.

79. CONDUIT LOCATOR OR TRACER WIRE:
A TRACER CABLE, WIRE OR SHIELDED CABLE SHALL BE INSTALLED WITH CONDUITS FOR FIBER OPTIC LINES, AND OTHER SIMILAR NON-TRACEABLE CONDUITS, IN SUCH A MANOR THAT THE EXACT LOCATION OF THE CONDUITS CAN BE DETERMINED BY THE UTILITY OWNER USING FIELD LOCATING EQUIPMENT. FOR JOINT TRENCH UTILITY WORK, EACH COMPANY MUST HAVE THEIR OWN TRACER CABLE, WIRE OR SHIELDED CABLE, SO THAT EACH COMPANY CAN LOCATE THEIR OWN CONDUITS. FOR PLASTIC GAS AND GROUND WATER EXTRACTION SYSTEM PIPES, A TRACER TAPE MAY BE USED IN LIEU OF A TRACER CABLE OR WIRE, AS A TRACER CABLE OR WIRE CANNOT BE INSERTED IN THESE TYPES OF PIPE.

80. VAULT SURFACE FINISHING AND TRAFFIC RATING:
ALL BOXES AND VAULTS PLACED IN THE SIDEWALK AREA SHALL HAVE A CONCRETE TYPE OF FINISH (POLYMER LIDS AND FRAMES ARE ACCEPTABLE). BOXES AND VAULTS LOCATED

WITHIN DRIVEWAYS SHALL BE TRAFFIC RATED BOXES AND LIDS FOR AT LEAST H20 TRAFFIC LOADS.

81. REPLACEMENT OF SIDEWALK BETWEEN VAULTS:
WHERE LARGE VAULTS OR MANHOLES ARE INSTALLED WITHIN AN EXISTING SIDEWALK AND THE DISTANCE BETWEEN THE VAULTS OR MANHOLES IS LESS THAN 20 FEET ON CENTER, ALL OF THE EXISTING SIDEWALK LOCATED BETWEEN THE VAULTS OR MANHOLES SHALL BE REPLACED.

MONITORING AND EXTRACTION WELLS

82. SCVWD REQUIREMENTS:
ALL WELL WORK SHALL COMPLY WITH THE SANTA CLARA VALLEY WATER DISTRICT'S "STANDARDS FOR THE CONSTRUCTION AND DESTRUCTION OF WELLS AND OTHER DEEP EXCAVATIONS IN SANTA CLARA VALLEY."

83. WELL CLEARANCE FROM UTILITIES:
WELLS ARE TO BE LOCATED A MINIMUM DISTANCE OF 5' FROM ALL SERVICE LATERALS, MAINS AND MANHOLES.

84. REMOVAL OF DRILLING WASTES:
ALL DRILLING FLUID AND WASTE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.

85. SUBMITTAL OF REPORTS:
A COPY OF ALL REPORTS SENT TO THE GOVERNING REGULATORY AGENCY, SUCH AS THE STATE REGIONAL WATER QUALITY CONTROL BOARD OR SANTA CLARA VALLEY WATER DISTRICT, FOR THE SUBJECT EXPLORATORY BORINGS, MONITORING WELLS AND EXTRACTION WELLS SHALL BE SENT TO THE PUBLIC WORKS DEPARTMENT.

SOIL BORINGS

86. REMOVAL OF BORING WASTES:
ALL BORING WASTE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.

87. BORING SEALING REQUIREMENTS:
EXPLORATORY BORINGS SHALL BE DESTROYED IN ACCORDANCE WITH THE SANTA CLARA VALLEY WATER DISTRICT'S WELL DESTRUCTION STANDARDS. ALL BORINGS 45' DEEP OR DEEPER REQUIRE A PERMIT FROM THE SANTA CLARA VALLEY WATER DISTRICT.

88. BORINGS BACKFILLED WITHIN 24 HOURS:
ALL EXPLORATORY BORINGS, REGARDLESS OF DEPTH, MUST BE BACKFILLED WITHIN 24 HOURS OF THE COMPLETION OF TESTING ACTIVITIES.

89. BORING SEALING MIX REQUIREMENTS:
ALL EXPLORATORY BORINGS, REGARDLESS OF DEPTH, MUST BE BACKFILLED WITH ACCEPTABLE SEALING MATERIALS. ACCEPTABLE SEALING MATERIALS INCLUDE: (1) A 27-SACK NEAT CEMENT (27 SACKS OF CEMENT PER CUBIC YARD FOR DRY MIX), WHERE THE NEAT CEMENT MIXTURE IS COMPOSED OF ONE BAG OF PORTLAND CEMENT TO FIVE TO SEVEN GALLONS OF CLEAN WATER AND WHERE UP TO 5 PERCENT BENTONITE CLAY CAN BE ADDED TO THE CEMENT MIXTURE; (2) A 10-SACK CEMENT/SAND SLURRY (10.4 SACKS OF CEMENT PER CUBIC YARD FOR DRY MIX), WHERE THE CEMENT/SAND MIXTURE IS COMPOSED

OF NOT MORE THAN TWO PARTS SAND AND ONE PART OF PORTLAND CEMENT TO FIVE TO SEVEN GALLONS OF CLEAN WATER; AND (3) 20 PERCENT, HIGH SOLIDS BENTONITE SLURRY. THE SOLID-FORM BENTONITE (PELLETS/CHIPS) IS NOT AN ACCEPTABLE SEALING MATERIAL IN SANTA CLARA COUNTY.

90. BORING SEALING, USE OF TREMIE PIPE:
SEALING MATERIALS MUST BE PLACED USING A TREMIE PIPE IN BORINGS GREATER THAN 30' IN DEPTH OR IN BORINGS THAT CONTAIN WATER. IF A DRIVEN PROBE BORING IS BEING DESTROYED, THE PROBE TUBING CAN BE USED AS A TREMIE PIPE.

91. SMALL DIAMETER BORING, PAVEMENT RESTORATION:
FOR SMALL DIAMETER HOLES (3" AND SMALLER) DRILLED WITHIN THE AC PAVEMENT, THE HOLES SHALL BE BACKFILLED WITH A CEMENT GROUT MIXTURE AND CAPPED WITH A 3" THICK AC COLD PATCH (CUT-BACK ASPHALT) AND LEVELED TO MATCH THE EXISTING SURFACE.

SITE RESTORATION

92. MINIMIZE DAMAGE TO LANDSCAPE:
EXISTING LANDSCAPE WITHIN THE AREA OF WORK SHALL BE CAREFULLY REMOVED AND REPLACED WITH MINIMAL DAMAGE.

93. SITE RESTORATION:
THE CONTRACTOR SHALL RETURN THE PRIVATE YARDS, SIDEWALKS, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES, PUBLIC OR PRIVATE, DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAT EXISTED PRIOR TO COMMENCEMENT OF THE WORK. THE CONTRACTOR SHALL MAKE A REASONABLE EFFORT TO RESTORE EACH PRIVATE YARD DISTURBED BY THE WORK WITHIN ONE WEEK AFTER THE WORK IS COMPLETED ON THE SAME YARD EXCEPT WHERE THE CITY'S INSPECTOR AGREES THAT FOR CONSTRUCTION REASONS, THE 1 WEEK REQUIREMENT MAY BE EXTENDED.

ON-SITE GRADING

94. SOILS REPORT:
ALL ON-SITE GRADING SHALL BE DONE PER THE APPROVED RECOMMENDATIONS IN THE SOIL AND FOUNDATION INVESTIGATIONS REPORT, ENTITLED "_____", DATED _____, PREPARED BY [company name, address], JOB NO. _____ AND SIGNED BY _____, RCE _____.