# STREET IMPROVEMENT PLANS FOR

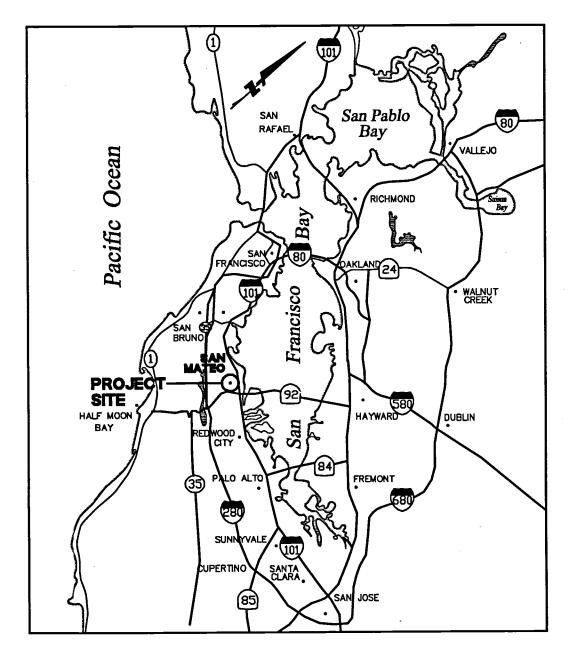
# HIGHLAND ESTATES - TICONDEROGA DRIVE, COBBLEHILL PLACE & COWPENS WAY

COUNTY OF SAN MATEO, CALIFORNIA

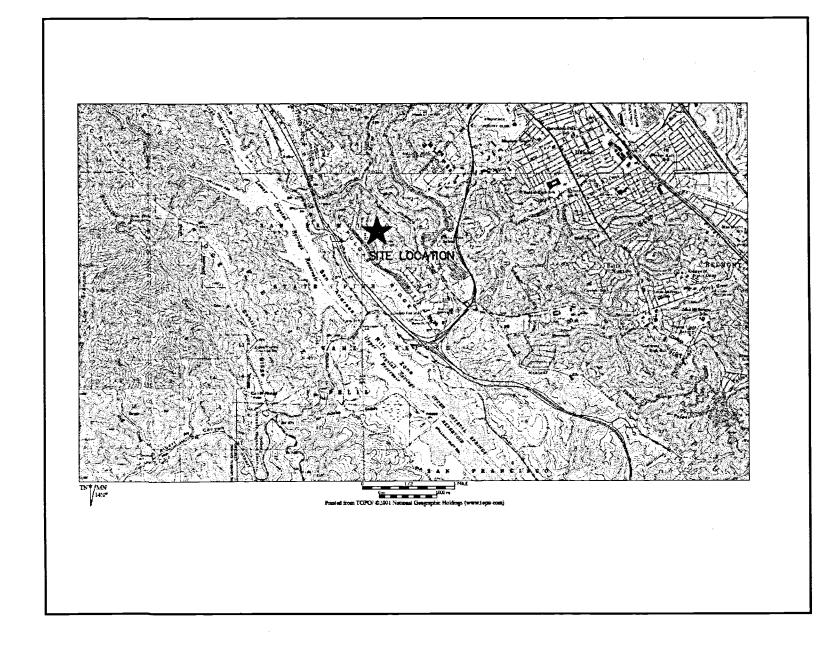
# SHEET INDEX

GENERAL NOTES, LEGEND AND ABBREVIATIONS PLAN & PROFILE - TICONDEROGA DRIVE CONSTRUCTION STAGING & EROSION CONTROL CONSTRUCTION STAGING & EROSION CONTROL EROSION CONTROL DETAILS AND NOTES CONSTRUCTION DETAILS CONSTRUCTION DETAILS

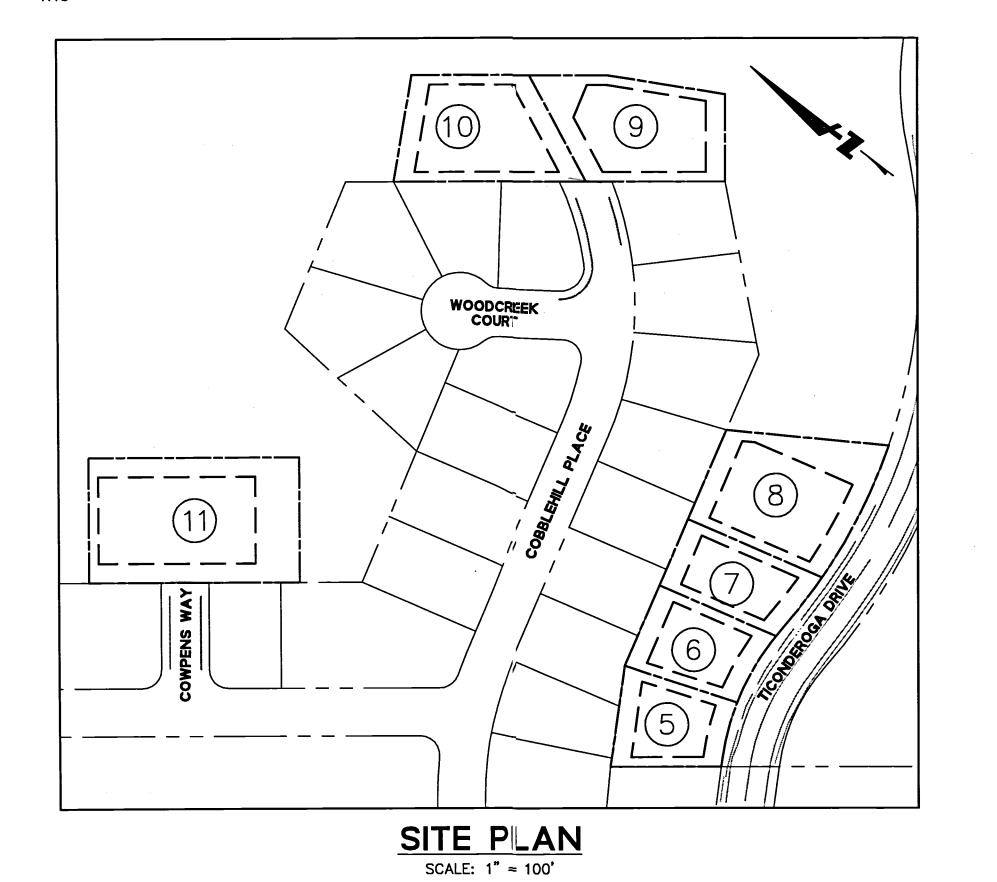
RETAINING WALL PLAN



**VICINITY MAP** 



LOCATION MAP



# PROJECT DATA

**ENGINEER:** 

255 SHORELINE DRIVE, SUITE 200

**GAS & ELECTRIC TELEPHONE:** 

DATE OF PHOTOGRAPHY 9/18/87

REDWOOD CITY, CA 94065

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

# **ENGINEER'S STATEMENT**

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

ROZAND N.V. HAGA R.C.E NO. 43971 EXP 06/30/17



C1.00

- 1. WORK SHALL CONFORM TO THE COUNTY OF SAN MATEO PUBLIC WORKS STANDARD DRAWINGS FOR PUBLIC IMPROVEMENTS. REVISED SEPTEMBER 2007 AND THE SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS, DATED JUNE 1995.
- 2. PERFORM WORK IN CONFORMANCE WITH THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT TITLED "UPDATED GEOTECHNICAL INVESTIGATION, HIGHLAND ESTATES LOTS 5 THROUGH 11, TICONDEROGA DRIVE/COBBLEHILL PLACE/COWPENS WAY, SAN MATEO COUNTY, CALIFORNIA" PREPARED BY CORNERSTONE EARTH GROUP, DATED OCTOBER 30, 2015. GRADING WORK WILL BE SUBJECT TO APPROVAL OF GEOTECHNICAL ENGINEER.
- ARRANGE FOR REQUIRED INSPECTIONS BY COUNTY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANGE FOR REQUIRED COUNTY INSPECTIONS IN ADVANCE. PROVIDE NOTICE TO COUNTY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.
- 4. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY ENGINEER, WHO WILL OBTAIN APPROVAL FROM COUNTY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS, WHICH SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND COUNTY ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
- 5. REPLACE OR REPAIR EXISTING UTILITIES, IMPROVEMENTS OR FEATURES DAMAGED, REMOVED, OR DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON PLANS OR NOT.
- 6. REPLACE STREET MONUMENTS, LOT CORNERS PIPES AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION. MONUMENTS SHALL BE SET BY A SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
- 7. PREPARE TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM COUNTY ENGINEER BEFORE COMMENCING WORK. PROVIDE FLAG MEN, CONES, BARRICADES AND OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROVIDE SAFE LANE CLOSURE IN CONFORMANCE WITH CALTRANS STANDARDS AND AS APPROVED BY COUNTY
- 8. PEDESTRIAN TRAFFIC CONTROL TO BE PROVIDED WHEN EXISTING SIDEWALKS CANNOT BE MAINTAINED DURING CONSTRUCTION.
- 9. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES AT THE END OF WORK EVERY WORK DAY.
- 10. PREPARE SHORING PLAN AND SUBMIT TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL ADEQUATELY SHORE EXCAVATIONS TO PREVENT EARTH FROM SLIDING OR SETTLING AND TO PROTECT EXISTING ADJACENT IMPROVEMENTS FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE SHORING IN CONFORMANCE WITH APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND OSHA WHERE EXCAVATIONS ARE 5 FEET OR MORE IN
- 11. IMPLEMENT CONSTRUCTION DUST CONTROL MEASURES TO REDUCE PARTICULATE GENERATION TO A LESS THAN SIGNIFICANT LEVEL, PROVIDE DUST CONTROL IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT MINIMUM REQUIREMENTS. IMPLEMENT THE FOLLOWING CONSTRUCTION PRACTICES EXCEPT WHEN IT IS RAINING.
- 11.A. WATER ACTIVE EXTERIOR SOIL AREAS AT LEAST TWICE DAILY.
- 11.B. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL OR PROVIDE 2 FEET OF FREEBOARD.
- 11.C. PAVE, APPLY WATER THREE TIMES DAILY OR APPLY NON-TOXIC SOIL STABILIZER ON UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING
- 11.D. SWEEP PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS DAILY.
- 11.E. APPLY HYDROSEED OR NON-TOXIC SOIL STABILIZER TO INACTIVE CONSTRUCTION AREAS.
- 11.F. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON-TOXIC SOIL STABILIZER
- TO EXPOSED SOIL STOCKPILES.
- 11.G. INSTALL SANDBAGS AND OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 11.H. LIMIT TRAFFIC SPEED ON UNPAVED ROADS TO 15 MPH.
- 11.I. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
- 12. KEEP STREETS CLEAN OF DIRT, MUD AND OTHER CONSTRUCTION DEBRIS. CLEAN AND SWEEP STREETS ON A DAILY BASIS DURING THE WORK WEEK.
- 13. SHOULD IT APPEAR THAT THE WORK IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN CONSTRUCTION DOCUMENTS, NOTIFY ENGINEER AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK IN QUESTION.
- REGISTERED IN THE STATE OF CALIFORNIA.
- 15. IF BKF ENGINEERS IS RETAINED TO PROVIDE CONSTRUCTION STAKING SERVICES. CONTRACTOR WILL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED. RESTAKING SHALL BE AT CONTRACTOR'S EXPENSE.
- 16. MATCH EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH SMOOTH TRANSITION TO AVOID ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- 17. VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND OVERALL PROJECT REQUIREMENT PRIOR TO BIDDING PROJECT.
- 18. OBTAIN AND PAY FOR PERMITS AND LICENSES AS REQUIRED TO PERFORM WORK WITHIN THE COUNTY OF SAN MATEO PRIOR TO START OF WORK. PERMITS MAY INCLUDE ENCROACHMENT PERMIT FOR WORK WITHIN COUNTY RIGHT-OF-WAY AND GRADING/UTILITY PERMIT.
- 19. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC AND PEDESTRIAN CONTROL DURING CONSTRUCTION.
- 20. OBTAIN APPROVAL OF IMPORT SOIL MATERIAL FROM GEOTECHNICAL ENGINEER PRIOR TO DISTRIBUTING MATERIAL OVER SITE.
- 21. PROTECT ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS, STREETS AND OTHER FEATURES FROM DAMAGE BY CONTRACTOR'S OPERATIONS. REPAIR, REPLACE OR CLEAN ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS, STREETS AND OTHER FEATURES TO SATISFACTION OF OWNER.
- 22. MAINTAIN AND MANAGE CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES AT THE CONSTRUCTION SITE.
- 23. NOTIFY COUNTY ENGINEER A MINIMUM OF 24 HOURS PRIOR TO STARTING WORK ON OFF-SITE DRAINAGE AND SEWER FACILITIES, GRADING, PAVING, OR WORK IN THE COUNTY RIGHT-OF-WAY.
- 24. MAKE EFFORTS TO MINIMIZE CONSTRUCTION NOISE.

- 24.A. MAINTAIN EQUIPMENT USED ON SITE IN GOOD MECHANICAL CONDITION TO MINIMIZE NOISE CREATED BY FAULTY OR POORLY MAINTAINED ENGINE, DRIVE-TRAIN AND OTHER COMPONENTS.
- 24.B. EQUIPMENT EXCEEDING 110 DBA MEASURED 25 FEET FROM THE PIECE OF EQUIPMENT WILL NOT BE ALLOWED ON SITE.
- 24.C. SELECT APPROPRIATE EQUIPMENT TO MINIMIZE NOISE GENERATION. USE THE FOLLOWING TECHNIQUES TO MINIMIZE NOISE GENERATION SUBJECT TO EQUIPMENT AVAILABILITY AND COST CONSIDERATIONS. USE SCRAPERS AS MUCH AS POSSIBLE FOR EARTH REMOVAL, RATHER THAN NOISIER LOADERS AND HAUL TRUCKS. USE BACKHOES FOR BACKFILLING AS IT IS QUIETER THAN DOZERS OR LOADERS. USE MOTOR GRADERS RATHER THAN BULLDOZERS FOR FINAL GRADING.

### II. EXISTING CONDITIONS

- EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A FIELD TOPOGRAPHIC SURVEY OF THE PROJECT SITE BY BKF ENGINEERS, DATED JUNE 2009. ACTUAL CONDITIONS ENCOUNTERED ON SITE MAY VARY FROM THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND CONDUCT THEIR OWN INVESTIGATIONS TO UNDERSTAND AND VERIFY EXISTING CONDITIONS AT THE SITE.
- 2. EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.
- 3. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AFFECTING UTILITIES. POTHOLE WHERE NEEDED TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.
- CONTACT USA (UNDERGROUND SERVICES ALERT) AT 1-800-227-2600, AND AFFECTED UTILITY COMPANIES A MINIMUM OF 2 WORKING DAYS PRIOR TO STARTING WORK TO REQUEST UTILITIES BE MARKED.

### III. DEMOLITION

- REMOVE FROM SITE AND DISPOSE OF IN LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES NOT REMOVED DURING DEMOLITION OR ROUGH GRADING AND ENCOUNTERED DURING WORK ON SITE.
- 1.A. REMOVE WOOD OR CONCRETE STRUCTURES, SLABS, FOOTINGS, GRADE BEAMS, DECKS, DOCKS, AND OTHER SIMILAR STRUCTURES.
- 1.B. REMOVE LANDSCAPING, UTILITIES AND IRRIGATION LINES AS SPECIFIED BY GEOTECHNICAL ENGINEER.
- 1.C. REMOVE ABANDONED IN-GROUND STRUCTURES, SUCH AS CULVERTS, UTILITY VAULTS, AND FOUNDATIONS AS SPECIFIED BY GEOTECHNICAL ENGINEER.

### IV. DEWATERING

- 1. DEWATER AREAS COVERED WITH STANDING WATER PRIOR TO PLACEMENT OF FILL.
- 2. DISPOSE OF WATER FROM DEWATERING OPERATION IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

- DO NOT OPERATE WATER VALVES OR OTHER WATER DISTRICT FACILITIES. REQUIRED OPERATION WILL BE PERFORMED BY UTILITY DISTRICT PERSONNEL ONLY. NOTIFY UTILITY DISTRICT 2 WORKING DAYS PRIOR TO REQUIRING FACILITY OPERATION.
- 2. PROVIDE MINIMUM 12 INCH VERTICAL CLEARANCE FROM EDGE OF PIPE TO EDGE OF PIPE BETWEEN ADJACENT UTILITY PIPES AT UTILITY CROSSINGS UNLESS OTHERWISE
- 3. COMPLETE ELECTRIC, GAS, TELEPHONE, CABLE AND OTHER JOINT TRENCH WORK IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDER. NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK. IF EXISTING WATER, SEWER, GAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.
- 4. PROTECT UTILITIES FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.
- 5. PROVIDE UTILITY STRUCTURES IN PAVED AREAS SUITABLE FOR H-20 LOADING.
- 6. PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.
- 7. CONSTRUCT GRAVITY FLOW UTILITIES FROM DOWNSTREAM CONNECTION POINT TO UPSTREAM TERMINUS.
- 14. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR 8. COORDINATE WITH COUNTY OF SAN MATEO AND CRYSTAL SPRINGS SANITATION DISTRICT FOR INSPECTION OF WORK ON DISTRICT FACILITIES.
  - ALL WATER LATERALS AND SERVICES SHALL BE INSTALLED TO THE STANDARDS OF THE CALIFORNIA WATER SERVICE COMPANY. EXISTING WATER MAINS OR LATERALS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND TESTED TO THE SATISFACTION OF THE WATER COMPANY.
  - 10. SANITARY SEWER CONNECTIONS AND TESTING MUST BE MADE IN THE PRESENCE OF A SEWER DISTRICT REPRESENTATIVE.
  - 11. THE SEWER DISTRICT OFFICE SHALL BE CONTACTED (650-363-4100) TO SCHEDULE INSPECTIONS. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF ONE WORKING DAY PRIOR TO THE INSPECTION. NO INSPECTIONS SHALL OCCUR ON FRIDAYS, WEEKENDS OR HOLIDAYS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE SEWER 15. INSTALL WND BREAKS AT THE WNDWARD SIDES OF THE CONSTRUCTION AREAS.
  - 12. A VIDEO INSPECTION OF THE SEWER MAIN (MANHOLE TO MANHOLE) WHERE THE NEW LATERALS CONNECT TO THE SEWER DISTRICT MAIN SHALL BE PERFORMED BY THE APPLICANT OR CONTRACTOR AND SUBMITTED TO THE SEWER DISTRICT FOR REVIEW AFTER LATERAL CONNECTIONS HAVE BEEN MADE. THE VIDEO INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE SPECIAL PROVISIONS FOR CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS (A COPY CAN BE OBTAINED FROM THE COUNTY'S WEBSITE 1. AT WWW.CO.SANMATEO.CA.US/SEWERS). THE SEWER DISTRICT WILL REVIEW THE VIDEO INSPECTION TO DETERMINE WHETHER THE WORK PERFORMED IS ACCEPTABLE. ALL UNACCEPTABLE WORK SHALL BE CORRECTED TO THE SEWER DISTRICT'S SATISFACTION AT THE APPLICANT'S EXPENSE.
  - 13. CARE MUST BE TAKEN TO PROTECT THE EXISTING SEWER DISTRICT FACILITIES WHEN  $^2$ . NEW SEWER LATERALS AND CONNECTIONS ARE INSTALLED. ANY DAMAGES TO THE SEWER DISTRICT FACILITIES DURING THE INSTALLATION OF THE NEW LATERALS SHALL BE REPAIRED BY THE APPLICANT PER THE SEWER DISTRICT STANDARD DETAILS AND AT THE APPLICANT'S EXPENSE. THE SEWER DISTRICT MUST BE NOTIFIED OF ANY DAMAGES TO THE SANITARY SEWER FACILITIES AND ANY REPAIRS MUST BE INSPECTED BY A SEWER DISTRICT REPRESENTATIVE.
  - 14. A MINIMUM OF 6' IS REQUIRED BETWEEN THE PROPERTY LINE CLEANOUT AND STRUCTURE.

### VI. EARTHWORK AND GRADING

- 1. OFF-SITE IMPORT FILL MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
- 2. TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH AND DEBRIS WILL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
- REMOVE DEBRIS FROM AREAS OF EARTHWORK PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS.
- 4. PLACE AND COMPACT FILL MATERIAL AS RECOMMENDED IN GEOTECHNICAL REPORT PLACE FILL MATERIAL IN MAXIMUM 8 INCH UNCOMPACTED THICKNESS. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.
- 5. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES.

KEEP ACCURATE RECORD OF THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A COPY OF THE FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. PROVIDE COPY OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND WHEN

### VII. STATEMENT OF RESPONSIBILITY

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION 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, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE COUNTY OF SAN MATEO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE COUNTY OF SAN MATEO, RESPECTIVELY.

### IX. UNAUTHORIZED CHANGES AND USES

1. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE COUNTY ENGINEER AND THE PREPARER OF THESE PLANS.

NOTES AND CALLOUTS ON DRAWINGS MAY USE IMPERATIVE LANGUAGE. REQUIREMENTS EXPRESSED IMPERATIVELY ARE TO BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

## CONDITIONS OF APPROVAL NOTES

### CONSTRUCTION NOTES

- 1. THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT) WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE EMULSIFIED FUELS.
- 2. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- 3. FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS (OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB VEGETATION REMOVAL/REPLACEMENT NOTES I FVFI THREE VERIFIED CONTROL DEVICES.
- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- 5. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LIOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 6. PAVE. APPLY WATER THREE TIMES DAILY, OR APPLY NOIN-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITIES.
- 8. SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- 9. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- 10. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC: SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 11. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 12. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 13. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
- INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.
- 16. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.

### NOISE NOTES

- EQUIPMENT AND TRUCKS USED FOR PROJECT GRADING IND CONSTRUCTION WOULD UTILIZE THE BEST AVAILABLE NOISE CONTROL TECHNIQUIES (E.G., IMPROVED EXHAUST MUFFLERS, EQUIPMENT REDESIGN, USE OF INTAKE SILENCERS, DUCTS, ENGINE ENCLOSURES, AND ACOUSTICALLY-ATTENUATING SHIELDS OR SHROUDS) IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS.
- EQUIPMENT USED FOR PROJECT GRADING AND CONSTRUCTION WOULD BE HYDRAULICALLY OR ELECTRICALLY POWERED IMPACT TOCOLS (E.G., JACK HAMMERS AND PAVEMENT BREAKERS) WHEREVER POSSIBLE TO AVOID NOISE ASSOCIATED WITH COMPRESSED AIR EXHAUST FROM PNEUMATICALLY-POWERED TOOLS. COMPRESSED AIR EXHAUST SILENCERS WOULD BE USED ON OTHER EQUIPMENT. OTHER QUIETER PROCEDURES WOULD BE USED SUCH AS DRILLING RATHER THAN IMPACT EQUIPMENT WHENEVER FEASIBLE.
- 3. THE GRADING AND CONSTRUCTION ACTIVITY WOULD BE KEPT TO THE HOURS OF 7:00 AM TO 7:00 PM. MONDAY THROUGH FRIDAY. SATURDAY HOURS (8:00 AM TO 5:00 PM) ARE PERMITTED UPON THE DISCRETION OF COUNTY APPROVAL BASED ON

INPUT FROM NEARBY RESIDENTS AND BUSINESSES. SATURDAY CONSTRUCTION (8:00 AM TO 5:00 PM) WOULD BE ALLOWED ONCE THE BUILDINGS ARE FULLY ENCLOSED. NOISE GENERATING GRADING AND CONSTRUCTION ACTIVITIES SHALL NOT OCCUR AT ANY TIME ON SUNDAYS. THANKSGIVING AND CHRISTMAS.

4. RESIDENTIAL PROPERTY OWNERS WITHIN 200 FEET OF PLANNED CONSTRUCTION AREAS SHALL BE NOTIFIED OF THE CONSTRUCTION SCHEDULE IN WRITING, PRIOR TO CONSTRUCTION; THE PROJECT SPONSOR SHALL DESIGNATE A "DISTURBANCE COORDINATOR" WHO SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COMPLAINTS REGARDING CONSTRUCTION NOISE; THE COORDINATOR (WHO MAY BE AN EMPLOYEE OF THE DEVELOPER OR GENERAL CONTRACTOR) SHALL DETERMINE THE CAUSE OF THE COMPLAINT AND SHALL REQUIRE THAT REASONABLE MEASURES WARRANTED TO CORRECT THE PROBLEM BE IMPLEMENTED: A TELEPHONE NUMBER OF THE NOISE DISTURBANCE COORDINATOR SHALL BE CONSPICUOUSLY POSTED AT THE CONSTRUCTION SITE FENCE AND ON THE NOTIFICATION SENT TO NEIGHBORS ADJACENT TO THE SITE.

### ASBESTOS NOTES

- IF NATURALLY OCCURRING ASBESTOS IS IDENTIFIED AT THE SITE, A SITE HEALTH AND SAFETY (H&S) PLAN INCLUDING METHODS FOR CONTROL OF AIRBORNE DUST SHALL BE PREPARED. THIS PLAN SHALL BE REVIEWED AND APPROVED BY THE COUNTY OF SAN MATEO PRIOR TO GRADING IN AREAS UNDERLAIN BY SERPENTINE-BEARING SOILS OR BEDROCK AND NATURALLY OCCURRING ASBESTOS THE H&S PLAN SHALL STRICTLY CONTROL DUST-GENERATING EXCAVATION AND COMPACTION OF MATERIAL CONTAINING NATURALLY OCCURRING ASBESTOS. THE PLAN SHALL ALSO IDENTIFY SITE—MONITORING ACTIVITIES DEEMED NECESSARY DURING CONSTRUCTION (E.G., AIR MONITORING). WORKER MONITORING SHALL ALSO BE PERFORMED AS APPROPRIATE. THE PLAN SHALL DEFINE PERSONAL PROTECTION METHODS TO BE USED BY CONSTRUCTION WORKERS. ALL WORKER PROTECTION AND MONITORING SHALL COMPLY WITH PROVISIONS OF THE MINING SAFETY AND HEALTH ADMINISTRATION (MSHA) GUIDELINES, CALIFORNIA DIVISION OF OCCUPA-TIONAL SAFETY AND HEALTH (DOSH), AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- 2. IF NATURALLY OCCURRING ASBESTOS IS FOUND AT THE SITE, A SOIL MANAGEMENT PLAN SHALL BE DEVELOPED AND APPROVED BY THE COUNTY PLANNING DEPARTMENT TO PROVIDE DETAILED DESCRIPTIONS OF THE CONTROL AND DISPOSITION OF SOILS CONTAINING NATURALLY OCCURRING ASBESTOS. SERPENTINE MATERIAL PLACED AS FILL SHALL BE SUFFICIENTLY BURIED IN ORDER TO PREVENT EROSION BY WIND OR SURFACE WATER RUNOFF, OR EXPOSURE TO FUTURE HUMAN ACTIVITIES, SUCH AS LANDSCAPING OR SHALLOW TRENCHES. ADDITIONALLY, THE BAAQMD SHALL BE NOTIFIED PRIOR TO THE START OF ANY EXCAVATION IN AREAS CONTAINING NATURALLY OCCURRING ASBESTOS.

1. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 15) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN.

### TREE PROTECTION NOTES

THE APPLICANT SHALL ESTABLISH AND MAINTAIN TREE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT. TREE PROTECTION ZONES SHALL BE DELINEATED USING 4-FOOT TALL ORANGE PLASTIC FENCING SUPPORTED BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPLINES AS POSSIBLE WHILE STILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE. THE APPLICANT SHALL MAINTAIN TREE PROTECTION ZONES FREE OF EQUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THESE AREAS. SHOULD ANY LARGE ROOTS OR LARGE MASSES OF ROOTS NEED TO BE CUT, THE ROOTS SHALL BE INSPECTED BY A CERTIFIED ARBORIST OR REGISTERED FORESTER PRIOR TO CUTTING. ANY ROOT CUTTING SHALL BE MONITORED BY AN ARBORIST OR FORESTER AND DOCUMENTED. ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS. NORMAL IRRIGATION SHALL BE MAINTAINED, BUT OAKS SHOULD NOT NEED SUMMER IRRIGATION. THE ABOVE INFORMATION SHALL BE ON-SITE AT ALL TIMES.

- VEGETATION REMOVED IN AREAS OUTSIDE OF BUILDING FOOTPRINTS, DRIVEWAYS, AND CONSTRUCTION ACCESS AREAS SHALL BE REPLACED WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, IMMEDIATELY AFTER GRADING IS COMPLETE IN THAT AREA. PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION TO THE CURRENT PLANNING SECTION, SUBJECT TO REVIEW AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR.
- THE APPLICANT SHALL REPLACE ALL VEGETATION REMOVED IN ALL AREAS NOT COVERED BY CONSTRUCTION WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, ONCE CONSTRUCTION IS COMPLETED. PRIOR TO THE CURRENT PLANNING SECTION'S FINAL APPROVAL OF ANY BUILDING PERMIT, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION, SUBJECT TO

REVIEW AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR.

## DUST CONTROL NOTES

- ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED. PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS. EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- 2. A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL WATER QUALITY CONTROL BOARD.

### DISCOVERY OF HUMAN REMAINS NOTE

THE APPLICANT AND CONTRACTORS MUST BE PREPARED TO CARRY OUT THE REQUIREMENTS OF CALIFORNIA STATE LAW WITH REGARD TO THE DISCOVERY OF HUMAN REMAINS DURING CONSTRUCTION, WHETHER HISTORIC OR PREHISTORIC. IN THE EVENT THAT ANY HUMAN REMAINS ARE ENCOUNTERED DURING SITE DISTURBANCE, ALL GROUND-DISTURBING WORK SHALL CEASE IMMEDIATELY AND THE COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY. IF THE CORONER DETERMINES THE REMAINS TO BE NATIVE AMERICAN. THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS. A QUALIFIED ARCHAEOLOGIST. IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION, SHALL RECOMMEND SUBSEQUENT MEASURES FOR DISPOSITION OF THE REMAINS.

### GEOTECHNICAL INSPECTION NOTE

PRIOR TO ISSUANCE OF BUILDING PERMITS, THE PROJECT GEOTECHNICAL CONSULTANT SHALL FIELD INSPECT (AND INVESTIGATE. AS NEEDED) ALL PROPOSED DRAINAGE DISCHARGE LOCATIONS AND VERIFY THAT PROPOSED DRAINAGE DESIGNS ARE ACCEPTABLE FROM A SLOPE STABILITY/EROSION PERSPECTIVE OR RECOMMEND APPROPRIATE MODIFICATIONS.

## **LEGEND**

<u>EXISTING</u> EXISTING PROPERTY LINE BOUNDRY \_\_\_\_\_ss \_\_\_\_( )\_\_\_\_ss \_\_\_ EXISTING SANITARY SEWER W/MANHOLE EXISTING STORM DRAIN DRAIN W/ MANHOLE EXISTING WATERLINE EXISTING CATCH BASIN --- GAS --- GAS --- EXISTING GAS LINE ALL UTILITIES ARE APPROXIMATELY LOCATED

PROPOSED PROPERTY LINE BOUNDRY SANITARY SEWER W/ MANHOLE STORM DRAIN W/ MANHOLE & CATCH BASIN WATER LINE W/ FIRE HYDRANT GAS MAIN ETC UNDERGROUND ELECTRIC, TELEPHONE, & C.A.T.V. STORM DRAIN EASEMENT SANITARY SEWER EASEMENT EXISTING TREE & ELEVATION (TREE NO. REFERS TO TREE

IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP) INDICATES TREE TO BE REMOVED

LEATHERWODD BUSH **EUCALYPTUS TREE** POINT OF CONNECTION FIRE DEFENSE ZONE FLOW-THROUGH PLANTER. PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

# **ABBREVIATIONS**

ASPHALTIC CONCRETE NOT IN CONTRACT BEGINNING OAK TREE PEPPER TREE **BAY LAUREL** BUILDING CORNER PLANNED DEVELOPMENT BOTTOM OF WALL PINE PINE TREE BACK OF WALK PD PLANNED DEVELOPMENT CATCH BASIN P.U.E. PUBLIC UTILITY EASEMENT REINFORCED CONCRETE PIPE CENTERLINE RDW REDWOOD TREE CHAIN LINK FENCE CORRUGATED METAL PIPE **RET WALL** RETAINING WALL CONCRETE RIGHT OF WAY DECOMPOSED GRANITE SLOPE STORM DRAIN DRAIN INLET STORM DRAIN BUBBLE-UP BOX EXISTING GRADE STORM DRAIN CATCH BASIN EDGE OF PAVEMENT **EUCALYPTUS TREE SDCO** STORM DRAIN CLEANOUT STORM DRAIN DROP INLET EXISTING STORM DRAIN MANHOLE **SDMH** FACE OF CURB SANITARY SEWER FINISH GRADE SANITARY SEWER CLEAN OUT FLOW LINE SSCO **FENCE** SSMH SANITARY SEWER MANHOLE GRADE BREAK TREE GAS METER TOP OF CURB TOE TOE OF SLOPE **GROUND SHOT** TOP GRATE TOP OF SLOPE EDGE OF GRAVEL ROAD TOW TOP OF WALL UB GUY WIRE UTILITY BOX INVERT WATER WM JOINT POLE WATER METER WV WATER VALVE LIP OF GUTTER

## BENCHMARK:

BLDG COR

FNC

GB

GM

GR

INV

GND

**GRAVEL** 

THE PROJECT BENCHMARK IS THE TOP OF AN IRON PIPE, ELEVATION OF 538.23, LOCATED WITHIN A MONUMENT BOX AT THE INTERSECTION OF THE CENTERLINES OF COBBLEHILL PLACE AND NEW BRUNSWCK DRIVE IN SAN MATEO, CALIFORNIA. THE ELECTAION SHOWN IN BASED UPON A SURVEY BY BKF ENGINEERS IN MARCH OF 2011 AND IS BASED UPON AN ASSUMED ELEVATION.

# **BASIS OF BEARINGS:**

THE BEARING NORTH 47° 00' 00" EAST BETWEEN TWO FOUND MONUMENTS ON CENTERLINE OF BUNKER HILL DRIVE AS SAID CENTERLINE AND DRIVE IS SHOWN ON THAT CERTAIN MAP ENTITLED "TRACT NO. 762, THE HIGHLANDS, UNIT NO. 8" FILED FOR RECORD DECEMBER 18, 1957 IN VOLUME 48 OF MAPS AT PAGES 16-17 IN THE OFFICE OF THE RECORDER, SAN MATEO COUNTY, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS MAP.









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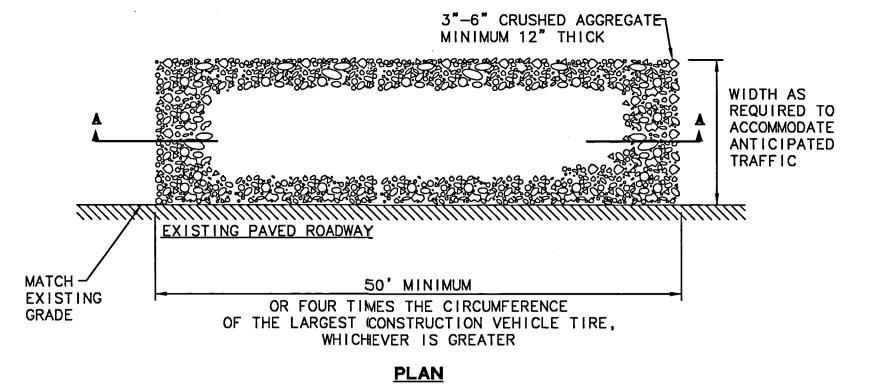
- 3. THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STORM RUN OFF FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES. AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- 6. BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.
- 7. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE EMULSIFIED FUELS.
- 10. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- 11. FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.
- 12. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- 13. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 14. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 15. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS. PARKING AREAS. AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 16. SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- 17. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- 18. TEMPORARY AND PERMANENT SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.
- 19. SEED MIX FOR REVEGETATION AND HYDROSEEDING: NORTHERN CALIFORNIA COVER MIX BY ACBRIGHT OR EQUAL
- 30% MEADOW BARLEY 20% ZORRO FESCUE 10% PURPLE NEEDLE GRASS 10% CALIFORNIA NATIVE WILDFLOWERS

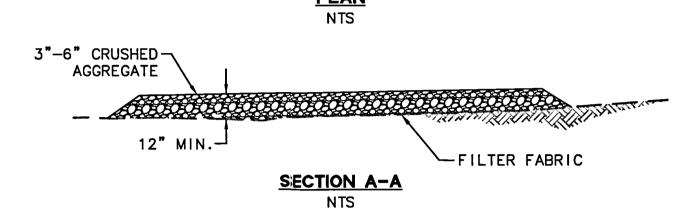
30% BLUE WILDRYE

- APPLY AT 40 POUNDS PER ACRE MINIMUM
- 20. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 21. DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY A SILT FENCE/FIBER ROLLS.
- 22. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 23. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 24. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
- 25. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.
- 26. INSTALL WND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.
- 27. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.
- 28. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 15) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING. STATING THE DATE WHEN GRADING WILL BEGIN.
- 29. STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 15 AND APRIL 15. STABILIZING SHALL INCLUDE BOTH PROACTIVE MEASURES, SUCH AS THE PLACEMENT OF STRAW BALES OR COIR NETTING, AND PASSIVE MEASURES, SUCH AS MINIMIZING VEGETATION REMOVAL AND REVEGETATING DISTURBED AREAS WITH VEGETATION THAT IS COMPATIBLE WITH THE SURROUNDING ENVIRONMENT.
- 30. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY. SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15 AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

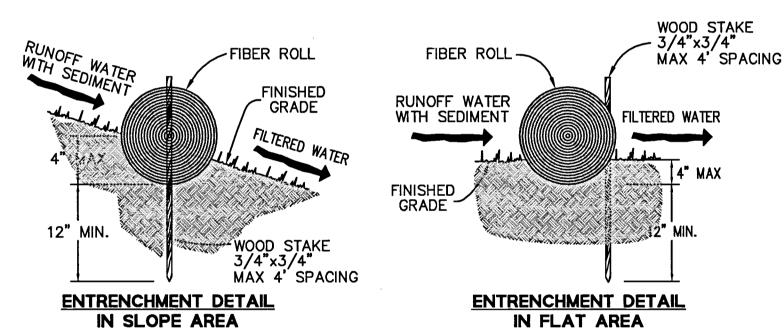
- 31. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORNWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
- 32. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.
- 33. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- 34. DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE COURSES.
- 35. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 36. PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER.
- 37. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- 38. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- 39. ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS, EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- 40. A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL WATER QUALITY CONTROL BOARD.
- 41. IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.
- 42. PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPOILS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCIRCLED BY SILT FENCES/FIBER ROLLS.
- 43. STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE
- HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.
- 45. GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.
- 46. THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE CITY.
- 47. SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.





- ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MA'Y REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.
- WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ON TO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STOINE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER: APPROVED METHODS).
- 3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 6" STONE.
- 4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
- 5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 6. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.

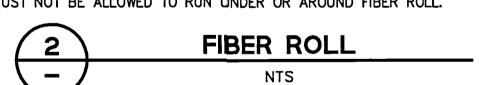


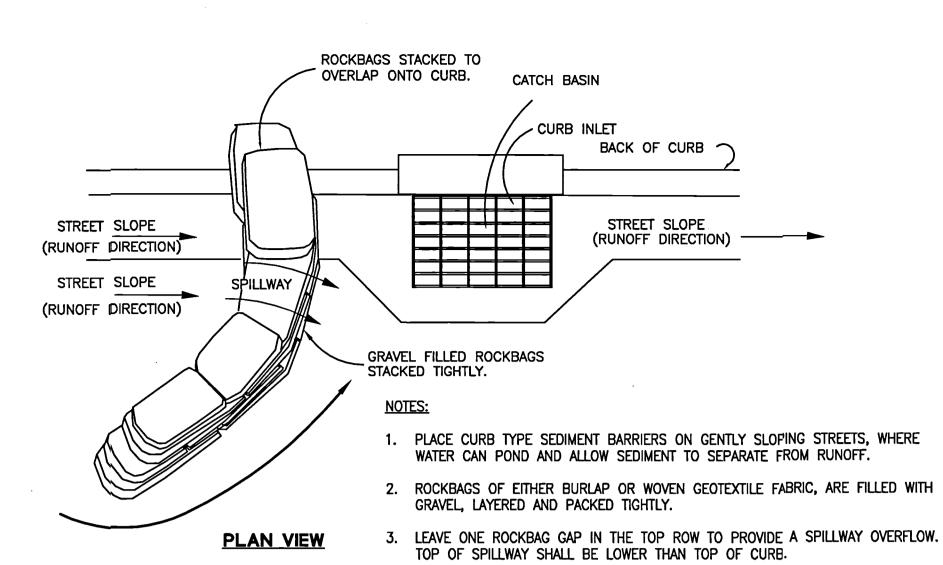


## <u>NOTES:</u>

- 1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
- 2. ADJACENT ROLLS SHALL TIGHTLY ABUT.
- 3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL

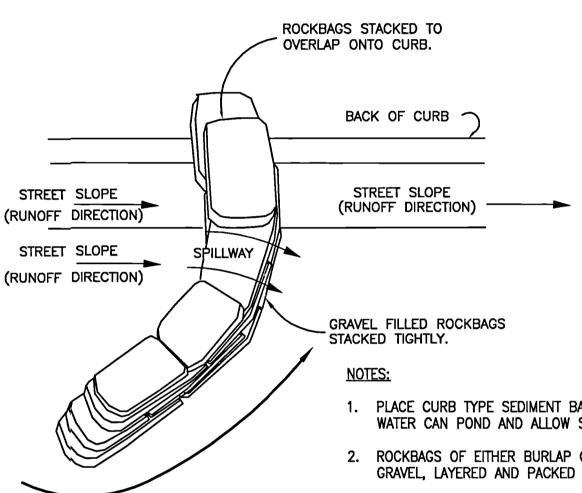
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4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY. **CURB AND GUTTER ROCKBAG** 

SEDIMENT BARRIER ON SLOPE TIME FRAME: BETWEEN FINAL PAVING OPERATIONS AND PROJECT COMPLETION)



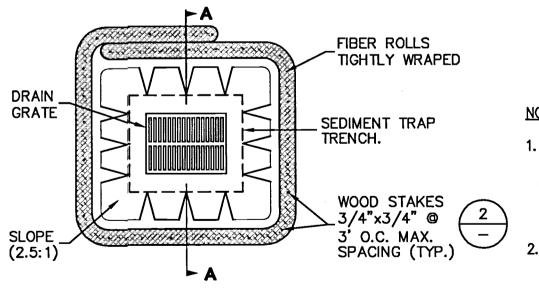
PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.

ROCKBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.

3. LEAVE ONE ROCKBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB.

4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.





**PLAN VIEW** 

PLAN VIEW - PONDING HEIGHT STRAW FINISH GRADE FIBER ROLLS EMBED FIBER 2 DROP INLET INTO SOIL. PROVIDE 1' WIDE BY 6" -DEEP SEDIMENT TRAP SECTION A-A TRENCH AROUND INLET.

- 1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. (FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROX. 8" DIA. AND 20 - 30 FT. LONG.)
- 2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" - 4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.
- 3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.

DROP INLET FIBER ROLLS SEDIMENT BARRIER

AREA DRAINS - BETWEEN AREA DRAIN INSTALLATION AND PROJECT COMPLETION CURB INLETS - BETWEEN CURB INLET INSTALLATION AND FINAL PAVING OPERATIONS)

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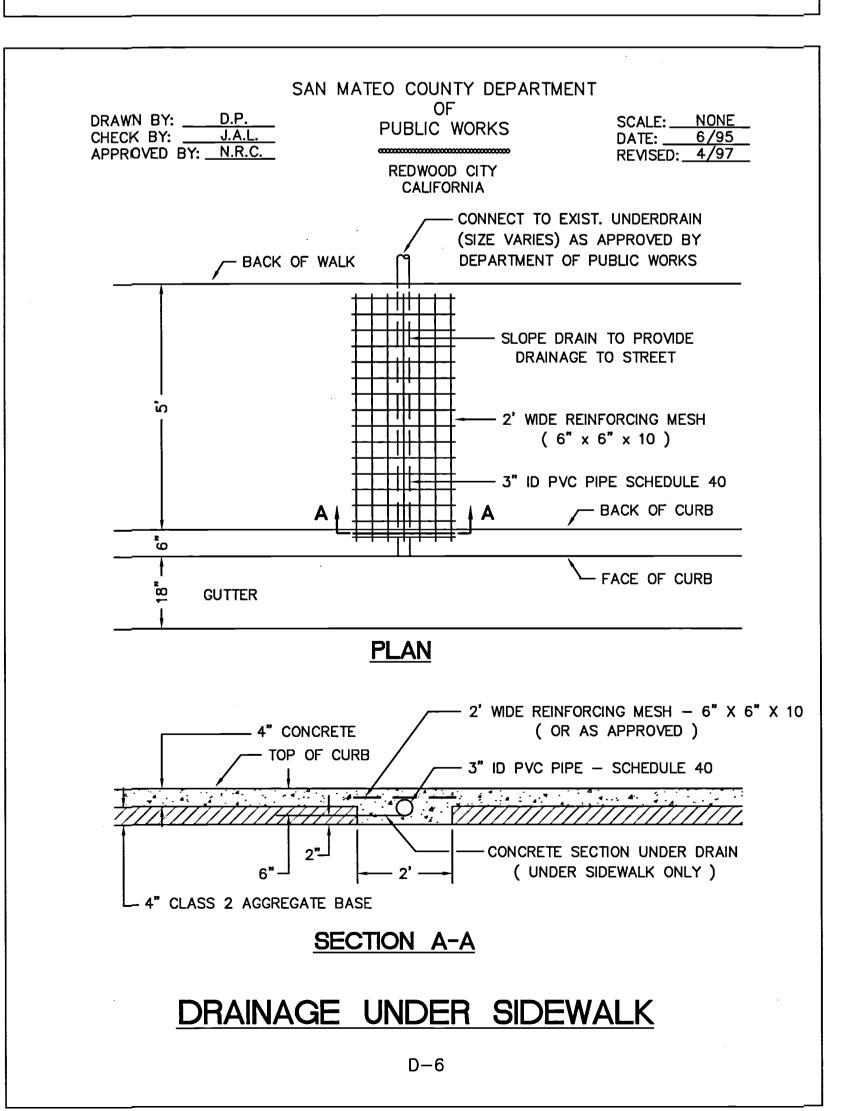
## SAN MATEO COUNTY DEPARTMENT DRAWN BY: D.P. CHECK BY: J.A.L. APPROVED BY: N.R.C. SCALE: NONE DATE: 7/97 PUBLIC WORKS REVISED: \_\_\_ REDWOOD CITY CALIFORNIA **GENERAL NOTES**

### 1. CURB RAMPS THAT HAVE A RAMP SLOPE FLATTER THAN 6.67% SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND 24" MINIMUM LENGTH. DETECTABLE WARNING SURFACES, AT THE OPTION OF THE CONTRACTOR, SHALL BE CONSTRUCTED BY CAST-IN-PLACE OR STAMPED METHOD, OR CONSIST OF A PREFABRICATED SURFACE, THE PRE-FABRICATED SURFACE SHALL REQUIRE APPROVAL BY THE ENGINEER.

- 2. TRANSITIONS FROM RAMPS TO WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" LIP AT 45.
- 3. INSTALL SLIP DOWELS 18" O.C. AT EXPANSION JOINTS.
- 4. MINIMUM WIDTH OF RAMP, NOT INCLUDING RETAINING CURB, SHALL BE 4 FEET.
- 5. THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK EXCEPT WHEN LOCATED IN CENTER OF CURB RETURN.
- 6. BACKFILL MATERIAL TO BE PLACED FLUSH WITH TOP OF CURB.
- 7. CONSTRUCT MONOLITHIC CURB, GUTTER, AND SIDEWALK.
- 8. SUB-BASE MATERIAL WITHIN 2.5' OF SUBGRADE SHALL BE COMPACTED TO 95%.
- 9. RECONSTRUCT SIDEWALK TO NEAREST SCORE LINE AND INSTALL EXPANSION JOINT.
- 10. UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED BY OTHERS PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION

SIDEWALK ACCESS RAMP FOR SIDEWALKS LESS THAN 6' WIDE NO SCALE

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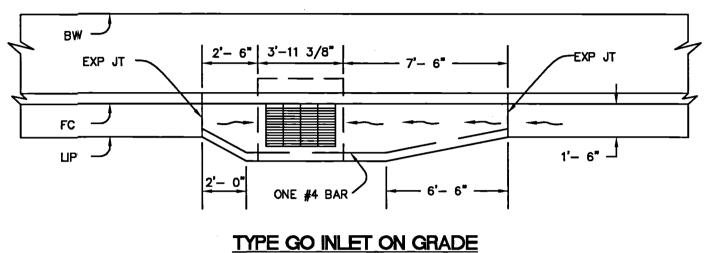
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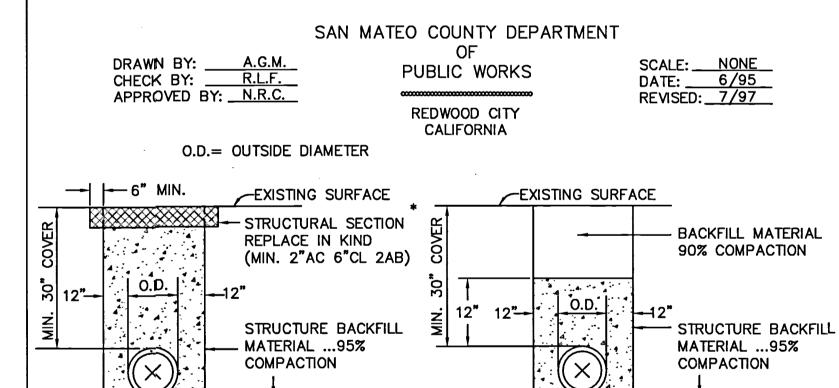
SAN MATEO COUNTY DEPARTMENT OF A.G.M R.L.F. DRAWN BY: \_\_\_\_ SCALE: NONE DATE: 6/95 PUBLIC WORKS CHECK BY: REVISED: APPROVED BY: N.R.C. REDWOOD CITY CALIFORNIA 1'- 6" -TYPE GO INLET ON SAG 2'- 6" | 3'-11 3/8"



QUANTITY OF PCC FOR APRONS (CUBIC YARDS)			
INLET	ON GRADE	IN SAG	
GO	0.3843	0.3880	

## APRON DETAILS NO SCALE

B-1A



# TYPE A (IN ROADWAY)

0.D./4 ≥ 4"

# TYPE B (OUTSIDE ROADWAY)

THERE SHALL BE A MINIMUM OF TWO AND ONE—HALF FEET (30 INCHES) OF COVER OVER ALL PIPES AND CONDUITS UNLESS OTHERWISE DIRECTED BY COUNTY ROAD INSPECTOR.

STRUCTURE BACKFILL MATERIAL...MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

% PASSING SIEVES SIEVE SIZE 100 35-100 NO.4 NO.30 20-100

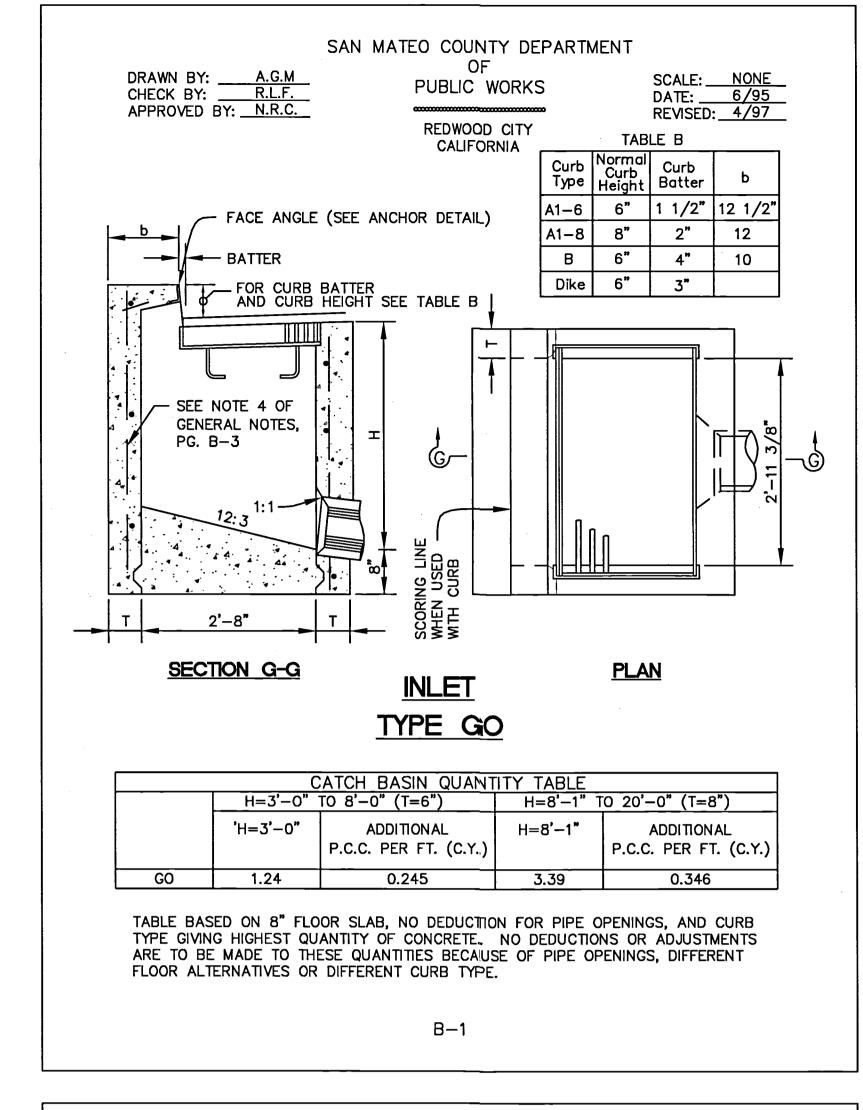
BACKFILL MATERIAL...MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL.

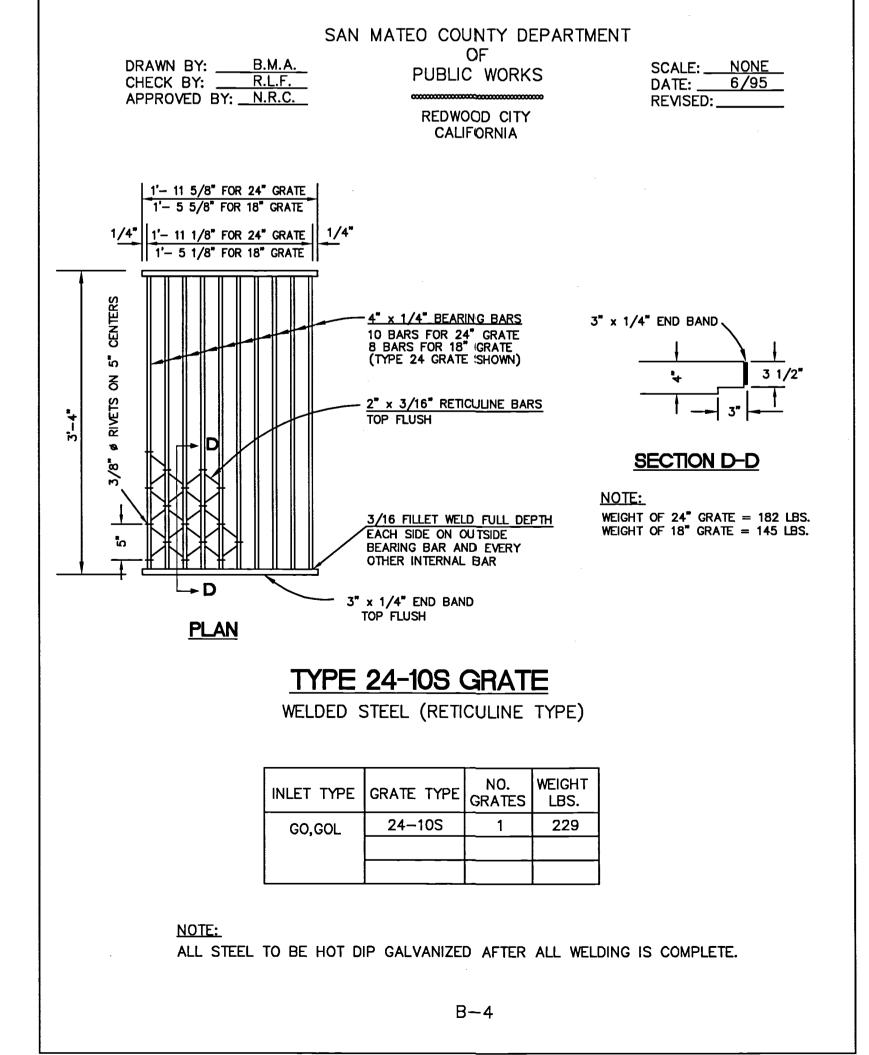
\*IN AREAS OF CEMENT TREATED BASES, THE REPLACEMENT MATERIAL SHALL CONSIST OF A MINIMUM OF 3" OF ASPHALT CONCRETE (TYPE B) OVER A MINIMUM OF 8" OF PORTLAND CEMENT CONCRETE (CLASS B).

FOR TRENCH BACKFILL REQUIREMENTS FOR SANITARY SEWER PIPE, SEE STANDARD DRAWINGS C6 AND C7.

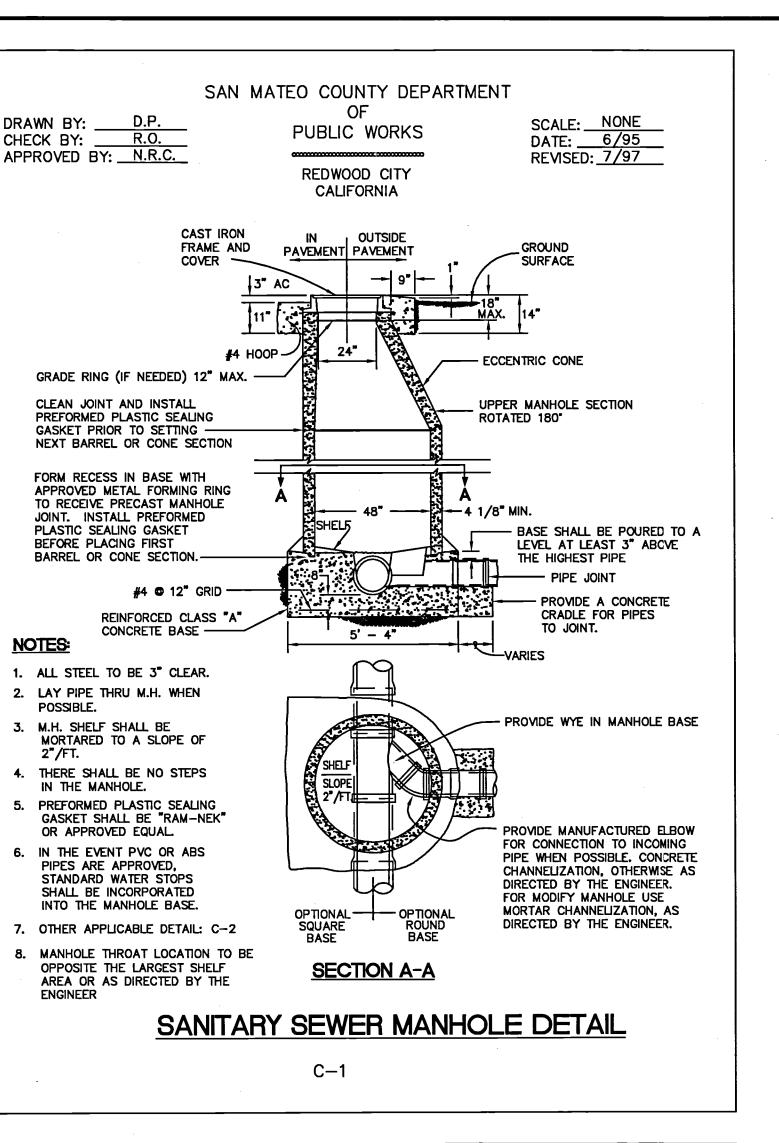
> STANDARD TRENCH BACKFILL AND BEDDING DETAIL STORM DRAIN PIPES

> > B-15



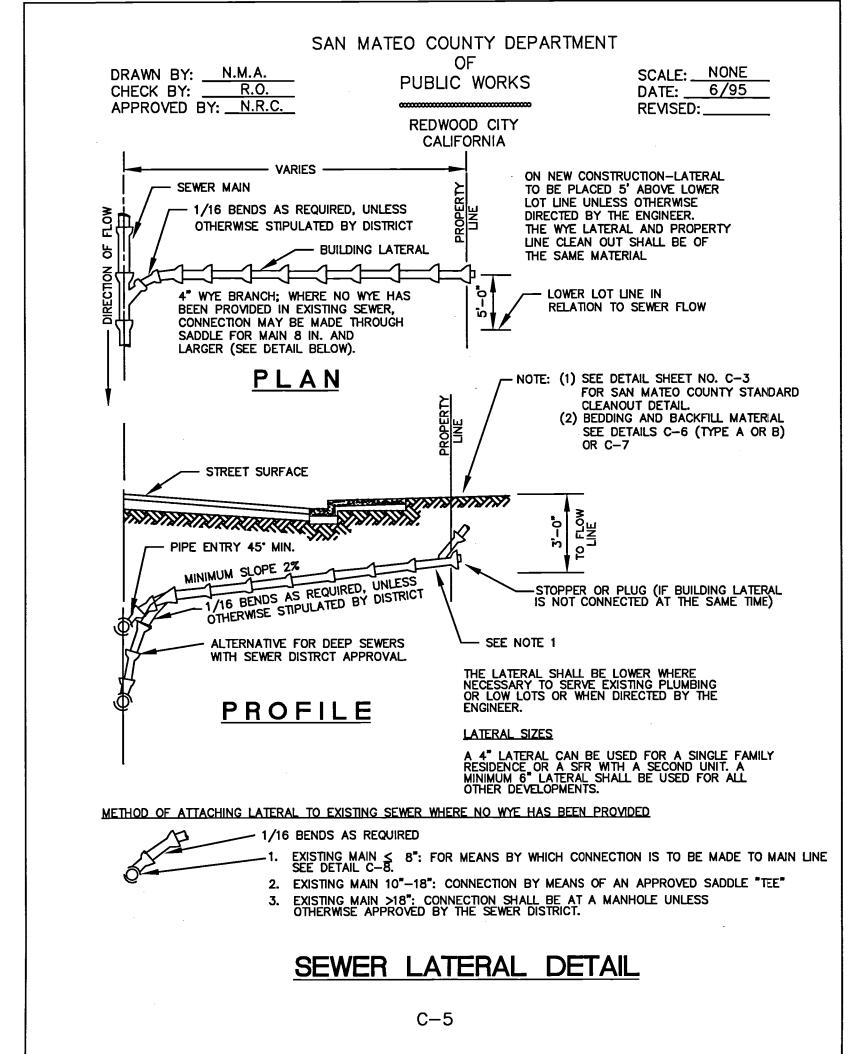


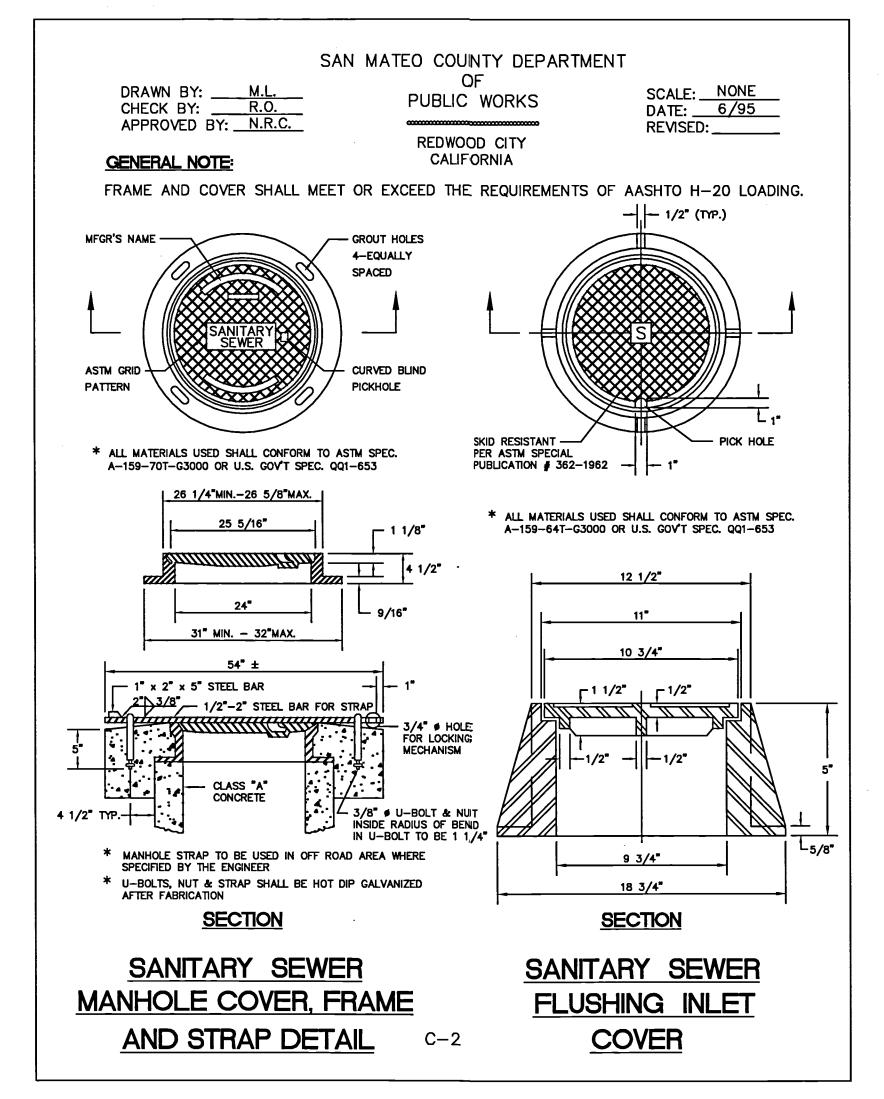
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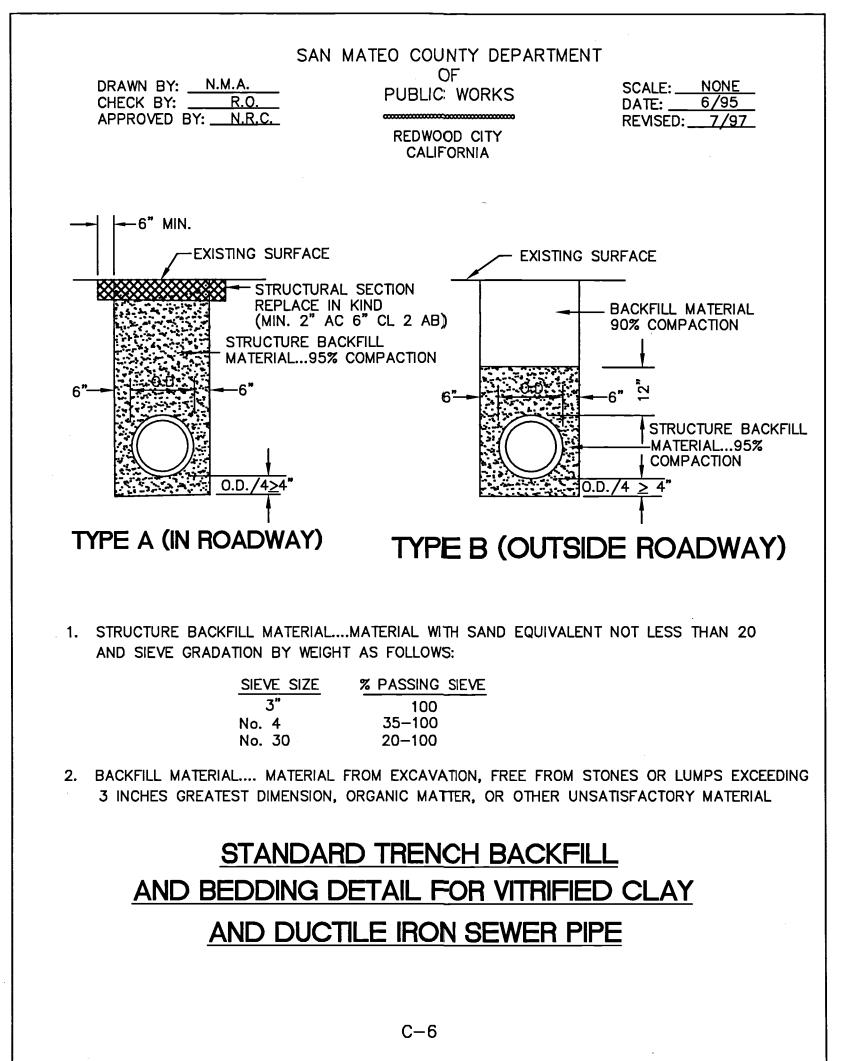


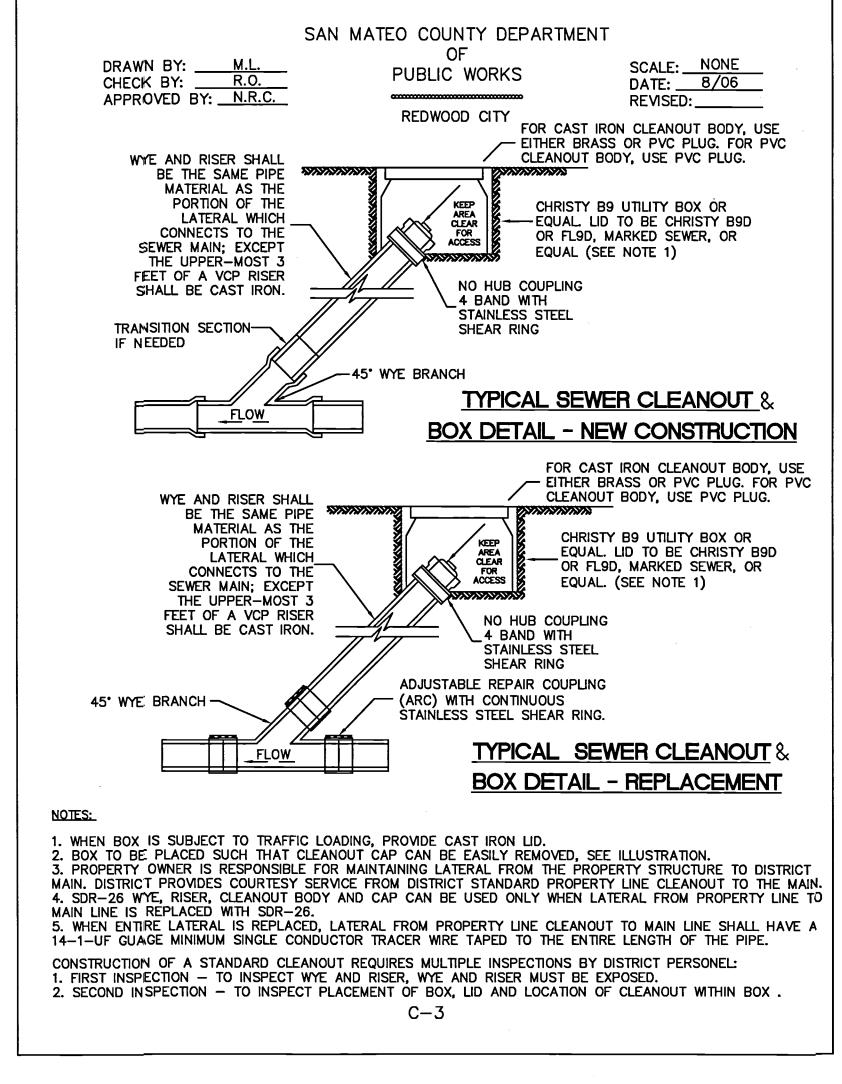
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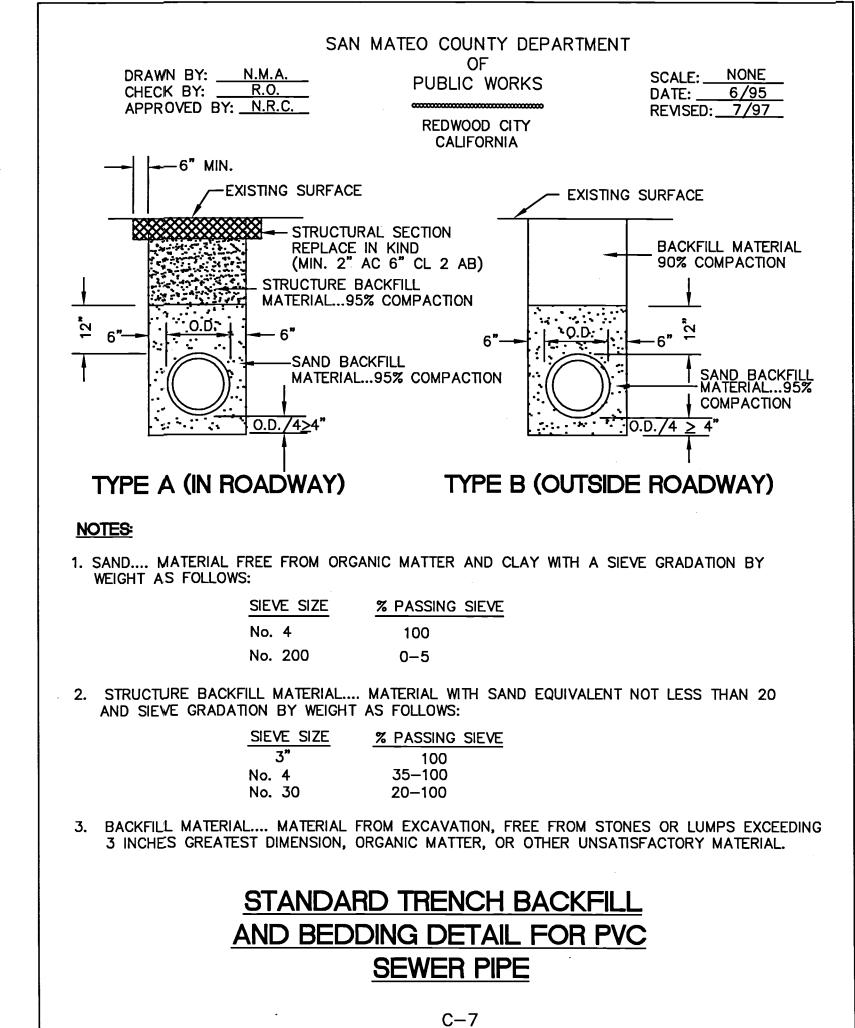
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EMENT COWPE S

STRE BLEHI CTIC

TAT ORIVI

HIGHL AND TICONDEROC

SOB TAU

 $\mathbf{O}$ 

- NEW U.S. PIPE MECHANICAL JOINT TAPPING SLEEVE OR EQUIVALENT (SEE LATERAL DETAIL FOR POSITION) NOTES: HORIZONTAL PIPE ENTRY ANGLE WILL BE 90 0. INSTEAD OF 45 0

DUCTILE IRON PIPE = DIP

(SEE LATERAL DETAIL, PLAN VIEW) VERTICAL PIPE ENTRY ANGLE SHALL BE 45 0 MINIMUM (SEE LATERAL DETAIL PROFILE VIEW)

> <u>PLAN</u> **DUCTILE IRON PIPE**

NEW STD. 6" X 4" PVC WYE (SEE LATERAL DETAIL FOR POSITION) SECTION OF PVC PIPE EXISTING PVC MAIN MANUFACTURED PVC CLOSURE COUPLING (NOT BANDED RUBBER COUPLING) ----POLYVINYL CHLORIDE = PVC

NOTE: ALL PVC, PIPE AND FITTINGS SHALL BE SDR 35 35 AND SHALL HAVE RUBBER GASKETED JOINTS. SOLVENT WELDED JOINTS SHALL NOT BE ALLOWED.

# POLYVINYL CHLORIDE PIPE

### LATERAL CONNECTION INSTALLATION DETAIL ON EXISTING PIPE

NOTE: LATERAL CONNECTION INSTALLATION ON NEWLY INSTALLED PIPE WILL BE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A.
CHECK BY: R.O.
APPROVED BY: N.R.C.

PUBLIC WORKS

SCALE: NONE DATE: 6/95 REVISED: \_\_\_\_\_

REDWOOD CITY CALIFORNIA

## SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

### PIPE AND FITTINGS

- 1. ALL PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS D3034. SDR 35.
- 2. ALL JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH ELASTOMERIC SEALING GASKETS. SEALING GASKETS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D1869. SOLVENT CEMENT JOINTS ARE NOT PERMITTED.
- ALL PIPE ENTERING OR LEAVING A CONCRETE STRUCTURE SHALL HAVE A RUBBER WATERSTOP GASKET ATTACHED TO IT. THE WATERSTOP GASKET SHALL CONFORM TO THE PIPE MANUFACTURER'S SPECIFICATIONS. THE WATERSTOP GASKET SHALL BE SEATED FIRMLY AROUND THE PIPE EXTERIOR AND BE CAST INTO THE CONCRETE STRUCTURE.
- 4. ALL PIPE JOINTS SHALL BE MADE USING MANUFACTURED PVC COUPLINGS. BAND TYPE COMPRESSION COUPLINGS ARE NOT PERMITTED.

## DUCTILE IRON PIPE (DIP)

- 1. ALL PIPE SHALL BE THICKNESS CLASS 50 (FOUR INCH PIPE SHALL BE THICKNESS CLASS 51) IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.51. FITTINGS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATION A21.10.
- JOINTS SHALL BE PUSH-ON TYPE OR MECHANICAL JOINT TYPE IN ACCORDANCE WITH ANSI SPECIFICATION A21.11. RUBBER GASKETS FOR PUSH-ON JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS HEREIN.
- PIPE AND FITTINGS SHALL HAVE A BITUMINOUS COATING OUTSIDE IN ACCORDANCE WITH ASTM SPECIFICATION A746-86, UNLESS OTHERWISE SPECIFIED HEREIN.
- 4. PIPE AND FITTINGS SHALL HAVE A 1/16" (ONE-SIXTEENTH INCH) CEMENT-MORTAR LINING WITH AN ASPHALTIC SEAL COAT.

## VITRIFIED CLAY PIPE (VCP)

- PIPE AND FITTINGS SHALL BE EXTRA STRENGTH, UNGLAZED, BELL AND SPIGOT, CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C700.
- JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH FACTORY INSTALLED FLEXIBLE COMPRESSSION TYPE GASKETS MADE OF PLASTICIZED POLYVINYL OR POLYURETHANE CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATIONS C425. BAND TYPE COUPLINGS ARE NOT ALLOW.

C - 14

### SAN MATEO COUNTY DEPARTMENT SCALE: NONE DRAWN BY: PUBLIC WORKS CHECK BY: DATE: <u>6/95</u> APPROVED BY: N.R.C. REVISED:\_ REDWOOD CITY ALUMINUM CONE LOOR LEVEL UPSTREAM BACKWATER STRUCTURE -OVERFLOW SURFACE REMOVE STANDARD -→ 3" OR 3-1/2" N.P.T. CLEANOUT PLUG OR PLAIN ÉND FINISH GRADE TO BUILDING OVERFLOW DEVICE NOTE: LOCATION OF DEVICE TO APPROVAL OF DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION WALVE OPENS TO A ALLOW WASTE WATER TO FLOW INTO SEWER MAIN; WALVE CLOSES BY ITS OWN WEIGHT TO PREVENT WASTEWATER FROM FLOWING BACK TO HOUSE LATERAL. TO SEWER MAIN NOTE: LOCATION OF DEVICE TO APPROVAL OF HOUSE DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION **BACKFLOW DEVICE** OVERFLOW AND BACKFLOW DEVICE DETAIL

SAN MATEO COUNTY DEPARTMENT

C-9

DRAWN BY: N.M.A. CHECK BY: R.O. APPROVED BY: N.R.C. PUBLIC: WORKS

SCALE: NONE DATE: 6/95

REVISED: \_\_\_7/97\_

REDWOOD CITY CALIFORNIA

# SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

## **TESTING REQUIREMENTS**

- 1. ALL REFERENCES TO "DISTRICT" IN THESE TESTING REQUIREMENTS SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- 2. ALL REQUIRED CLEANING AND TESTING OF SANITARY SEWER MAINS AND LATERALS SHALL BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE DISTRICT.
- 3. ALL SANITARY SEWER MAINS BEING CONSTRUCTED SHALL BE CLEANED BY MEANS OF A HIGH SPEED JET RODDER PRIOR TO TESTING. VCP AND DIP SHALL BE TESTED FOR OBSTRUCTION BY BALL ROLLING.
- 4. ALL SANITARY SEWER MAINS BEING CONSTRUCTED SHALL PASS A LOW PRESSURE AIR TEST. EACH SECTION OF MAIN SHALL BE TESTED BETWEEN SUCCESSIVE MANHOLES. THE LOW PRESSURE AIR TEST SHALL BE CONDUCTED IN THE FOLLOWING MANNER.

A COMPRESSED AIR SUPPLY SHALL BE ATTACHED TO AN AIR FITTING ON THE MAIN AND THE AIR PRESSURE WITHIN THE LINE INCREASED TO FOUR (4) POUNDS PER SQUARE INCH. (PSI). AFTER THE AIR SUPPLY IS SECURELY TURNED OFF OR DISCONNECTED, THERE SHALL BE Á TWO (2) MINUTE WAITING PERIOD BEFORE THE ACTUAL TEST PERIOD BEGINS TO ALLOW STABILIZATION OF AIR WITHIN THE MAIN.

IN NO CASE SHALL THE AIR PRESSURE WITHIN THE LINE BE LESS THAN 3.5 PSI AT THE BEGINNING OF THE TEST PERIOD. REFER TO THE CHART WHICH FOLLOWS FOR THE LENGTH OF THE TEST PERIOD. THE MINIMUM LENGTH OF TEST IS TWO (2) MINUTES). THE ALLOWABLE AIR PRESSURE LOSS DURING THE TEST PERIOD SHALL BE 1.0 PSI. A WRITTEN RECORD OF THE TEST SHALL BE SUBMITTED TO THE DISTRICT BY THE CONTRACTOR.

NOMINAL PIPE SIZE (inches)	LENGTH OF LINE (feet)	LENGTH OF TEST (minutes)	
4 6 6 8 8 8 8 8 10 10 10	ALL 0 - 300 300 - 370 370 AND GREATER 0 - 170 170 - 210 210 - 250 250 - 290 290 AND GREATER 0 - 110 110 - 165 165 - 215 215 AND GREATER	2 2 2 1/2 3 2 1/2 3 1/2 3 3/4 2 3 4 4 3/4	
	U-13		

DRAWN BY: CHECK BY: APPROVED BY: N.R.C.

PUBLIC WORKS

REDWOOD CITY

SCALE: NONE DATE: 8/06 REVISED: \_\_\_\_\_

## SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

### **GENERAL NOTES**

- ALL REFERENCES TO "DISTRICT" IN THESE GENERAL NOTES SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- THE APPROVAL OF THESE PLANS BY THE DISTRICT SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEETS THE DISTRICT'S STANDARDS. THE DISTRICT'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT AT 363-4765 OR 363-4100 TWO (2) WOKING DAYS IN ADVANCE OF BEGINNING ANY SANITARY SEWER WORK. THE CONTRACTOR SHALL THEREAFTER KEEP THE INSPECTOR FOR THE DISTRICT INFORMED OF HIS SCHEDULE FOR SANITARY SEWER WORK.
- ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE DISTRICT SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY WORK.
- THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING ANY EXCAVATING.
- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE COUNTY OR CITY BEFORE BEGINNING ANY SANITARY SEWER WORK.
- UPON THE COMPLETION OF CONSTRUCTION A COMPLETE SET OF REPRODUCIBLE "AS-CONSTRUCTED" PLANS SHALL BE PROVIDED TO THE DISTRICT.
- SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS ARE NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.
- PRIOR TO COMMENCING ANY SANITARY SEWER WORK IN OFF-SITE EASEMENTS THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH ADEQUATE EVIDENCE THAT ALL AFFECTED PROPERTY OWNERS (AND TENANTS WHERE APPLICABLE) WERE NOTIFIED WELL IN ADVANCE OF THE DATE WORK IN THESE EASEMENTS WAS TO BEGIN AND THAT THEY HAVE UPDATED THAT NOTICE IN A TIMELY MANNER WHEN THOSE DATES HAVE CHANGED.

C - 13

### SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A. CHECK BY: R.O. APPROVED BY: N.R.C.

PUBLIC WORKS

SCALE: NONE DATE: 6/95 REVISED: <u>7/97</u>

REDWOOD CITY CALIFORNIA

A TELEVISION INSPECTION SHALL BE MADE OF ALL SANITARY SEWER MAINS BEING CONSTRUCTED. IMMEDIATELY PRIOR TO TELEVISING THE SEWER, AN AMOUNT OF WATER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE SHALL BE INTRODUCED INTO THE SEWER MAIN BEING INSPECTED.

A VIDEO TAPE IN VHS FORMAT AT SP, OR EQUIVALENT, SPEED SHALL BE MADE OF THE INSPECTION AND DELIVERED ALONG WITH A TYPED LOG OF THE INSPECTION TO THE DISTRICT (SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS) FOR REVIEW AND ACCEPTANCE.

SUBMITTED VIDEO TAPES SHALL INCLUDE A CONTINUOUS ON-SCREEN DISPLAY WHICH CONTAINS, AS A MINIMUM, THE DATE OF THE FILMING, IDENTIFICATION OF THE LINE AND SEGMENT (REACH) OF THE LINE BEING VIEWED, AND A READOUT, IN FEET, SHOWING THE DISTANCE TO THE ENTRY POINT.

IF, IN THE OPINION OF THE DISTRICT, THE SUBMITTED VIDEO TAPES ARE OF POOR QUALITY. THE DISTRICT MAY REJECT THE VIDEO TAPES AND REQUIRE THE VIDEO INSPECTION TO BE REPEATED AND NEW VIDEO TAPES SUBMITTED TO THE DISTRICT FOR REVIEW AND ACCEPTANCE. ALL VIDEO TAPES SHALL BECOME THE PROPERTY OF THE DISTRICT.

DEFLECTION TESTING OF POLYVINYL CHLORIDE (PVC) SEWER MAINS SHALL BE PERFORMED AFTER THE PLACEMENT OF ALL TRENCH BACKFILL. PIPE DEFLECTION SHALL BE TESTED BY PULLING BY HAND A GO/NO-GO MANDREL THROUGH THE INSTALLED SECTIONS OF SEWER

THE MANDREL USED SHALL HAVE A MINIMUM LENGTH EQUAL TO ITS DIAMETER. THE MANDREL SHALL BE CONSTRUCTED WITH A MINIMUM OF NINE (9) RIBS FABRICATED PARALLEL TO ITS LONGITUDINAL AXIS. BOTH THE DESIGN OF THE MANDREL AND THE FABRICATED MANDREL ITSELF SHALL BE INSPECTED AND APPROVED BY THE DISTRICT WELL IN ADVANCE OF THE DEFLECTION TEST.

THE MANDREL DIAMETER SHALL BE 95% OF THE PIPE'S AVERAGE INSIDE DIAMETER AS DEFINED BY ASTM SPECIFICATION D3034, AND AS DETAILED IN THE FOLLOWING TABLE:

NOMINAL PIPE SIZE (inches)	AVERAGE INSIDE DIAMETER (inches)	MINIMUM MANDREL DIAMETER (inches)
6	5.893	5.598
8	7.891	7.497
10	9.864	9.371

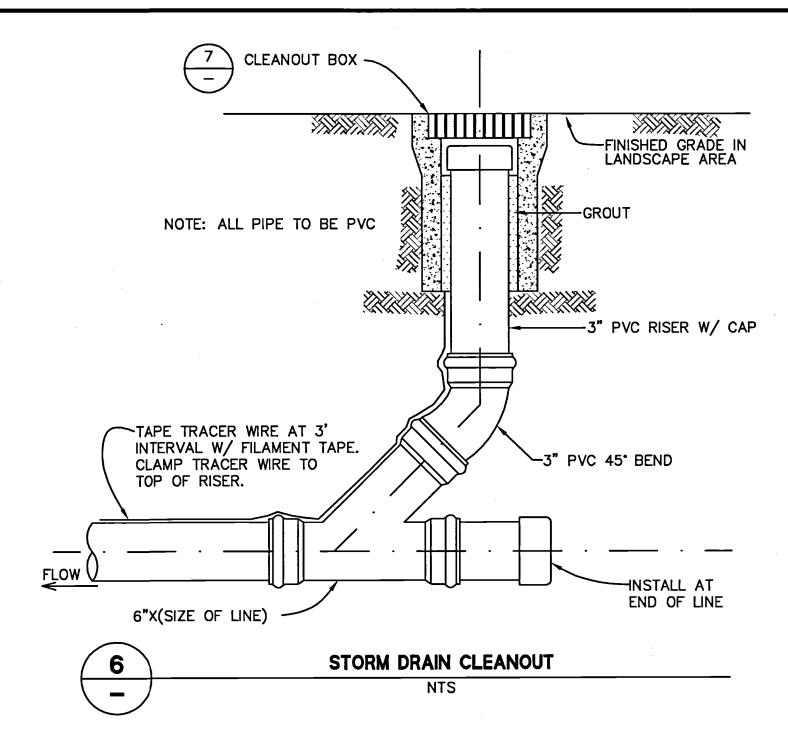
NOTE: AVERAGE INSIDE DIAMETER = AVERAGE OUTSIDE DIAMETER - 2(1.06)T: WHERE T = MINIMUM WALL THICKNESS AS DEFINED BY ASTM SPECIFICATION D3034.

C-16

POLYVINYL CHLORIDE PIPE (PVC)

Sheet Number:

C6.30 OF

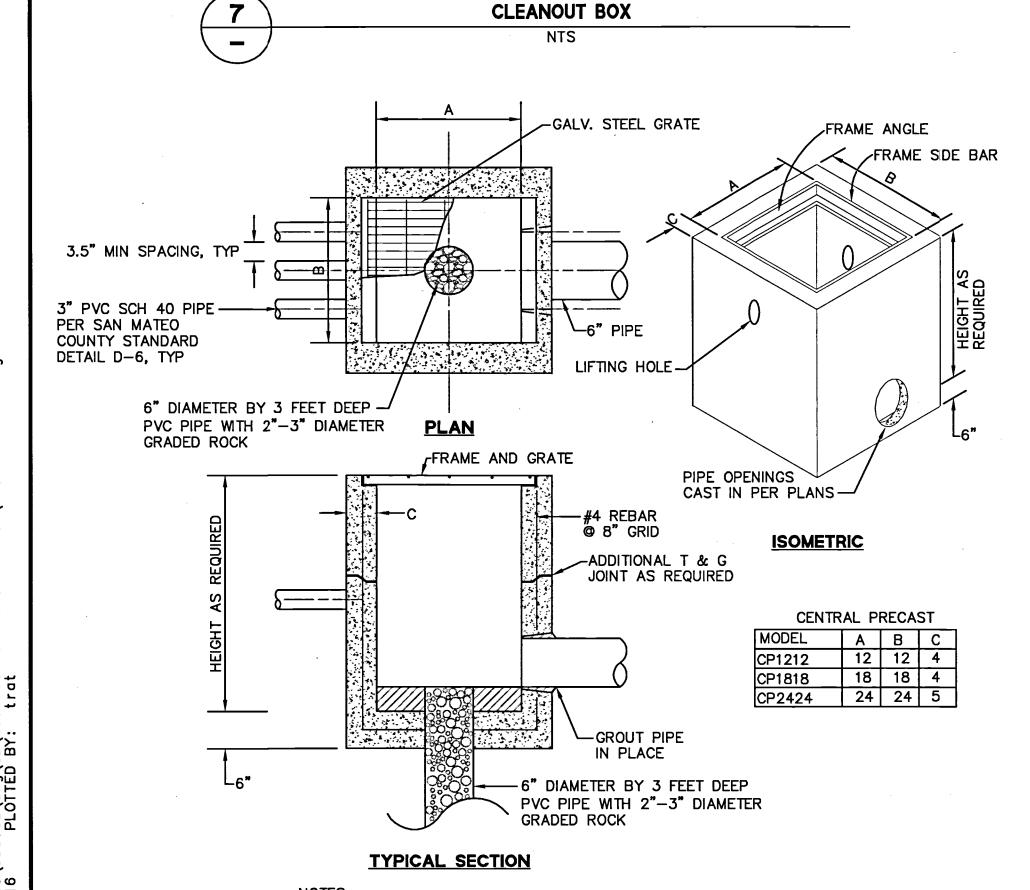


T-CONE STOPPER HAND-TAMPED 8" AREAS ONLY BACKFILL @ 90% CLAMP TRACER WIRE -INSTALL VERTICALLY, SAME TO TOP OF RISER SIZE AS LATERAL, AND CUT TO LENGTH

## **SECTION**

- 1. BOX TO BE H-20 RATED.
- 2. CHRISTY CONCRETE TYPE G5 METER BOX WITH G05C LID, MARKED "STORM", OR
- APPROVED EQUIVALENT.

3. TAPE TRACER WIRE AT 3' INTERVAL WITH FILAMENT TAPE.



BUBBLE-UP BOX SHALL BE CENTRAL PRECAST OR APPROVED EQUAL.
 SEE PLAN FOR BUBBLE-UP BOX SIZE AND LOCATION.

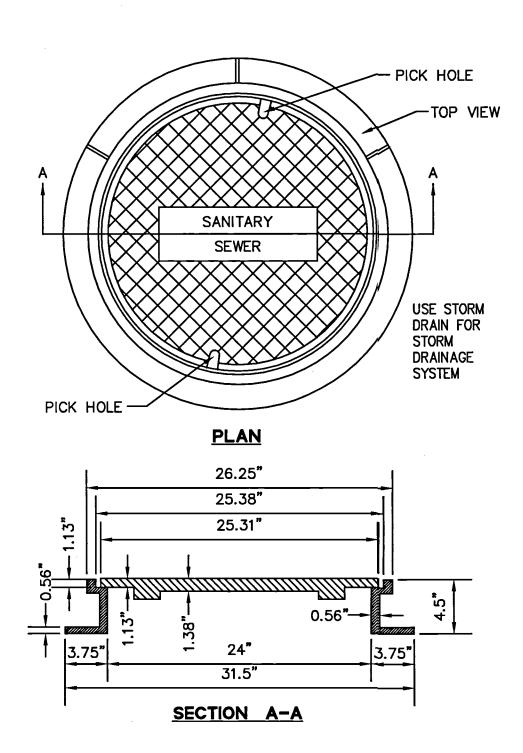
STORM DRAIN BUBBLE-UP BOX

NTS

48" I.D. IN PAVEMENT OUTSIDE PAVEMENT 5 CAST IRON "SAN. SEWER" OR--CAST IRON FRAME "STORM SEWER" PER PLAN AND COVER IN THE TOP OF COVER PRE-CAST GRADE RINGS-AS REQ'D 3" AND 6" : '\* #4 HOOP-SE NOTE - 2 STEP SEE --STD. PRE-CAST ECCENTRIC TAPER PLAN VIEW -T&G JOINT SEE NOTE - 2 - POUR BASE OVER TOP OF PIPE. SET VERTICAL SECTION IN FRESH CONC. OR USE T&G IMPRESSION RING TO FO FORM JOINT. 3000 PSI CONCRETE - PIPING PER REINFORCING-STEEL #4 @ 12" OC EACH WAY - POUR BASE IN FIELD TO SUIT **SECTION** 

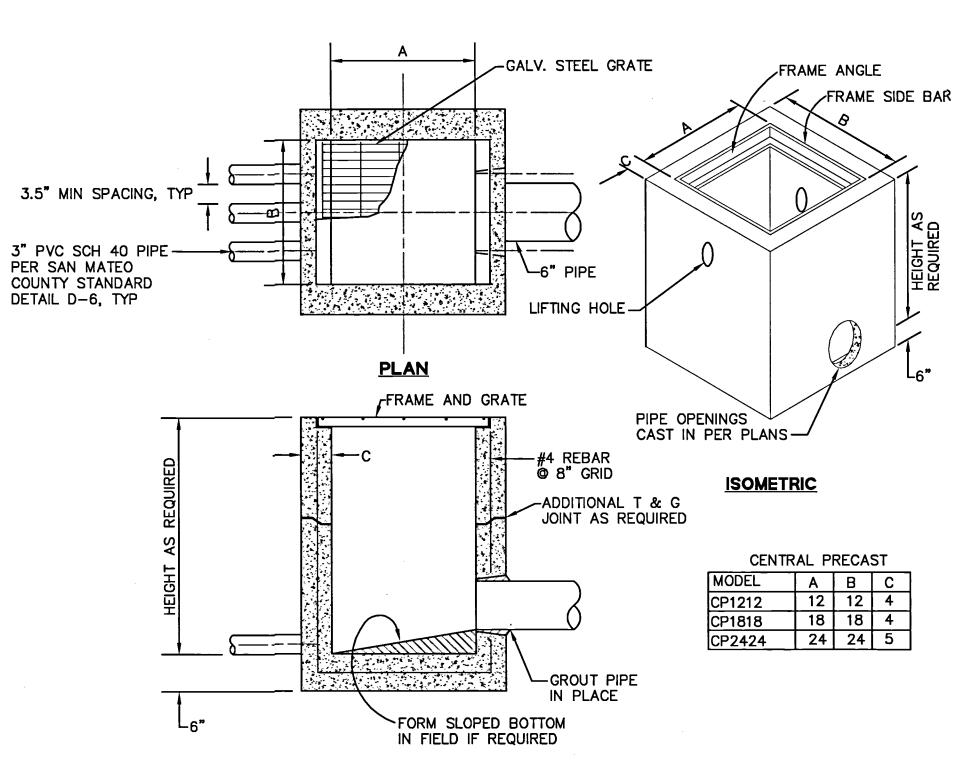
- 1. PRE-CAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C478.
- 2. GROUT JOINTS WITH 1:3 MORTAR MIX OR USE RAM-NEK JOINT COMPOUND.
- 3. A 36" TAPER MAY BE COMBINED WITH A 12" VERTICAL TO FORM A 48" TAPER SECTION.
- 4. ALL CONCRETE JOINTS SHALL BE LEANED, WETTED, AND MORTARED PRIOR TO SETTING THE NEXT SECTION. THE JOINTS SHALL BE PACKED, TOWELLED AND BRUSHED WHILE THE MORTAR IS PLASTIC.
- 5. MANHOLE SHALL BE SET TO GRADE SUBSEQUENT TO PLACING AC OR RCC.
- 6. XYPEX CONCENTRATE/CRYSTALLINE COATING ON INTERIOR CONCRETE SURFACES.
- 7. STEPS NOT REQUIRED IN MANHOLES 3.5 FEET OR LESS IN DEPTH.





- ALL MATERIAL USED IN MANUFACTURING SHALL CONFORM TO A.S.T.M. A48, CLASS 30. 2. ALL CASTINGS TO BE COMPLETELY CLEANED AND PAINTED WITH ASPHALTIC VARNISH, AFTER
- MANUFACTURE. 3. USE PHOENIX P-1090, D&L SUPPLY A-1024, OR EQUAL.

MANHOLE FRAME AND COVER NTS



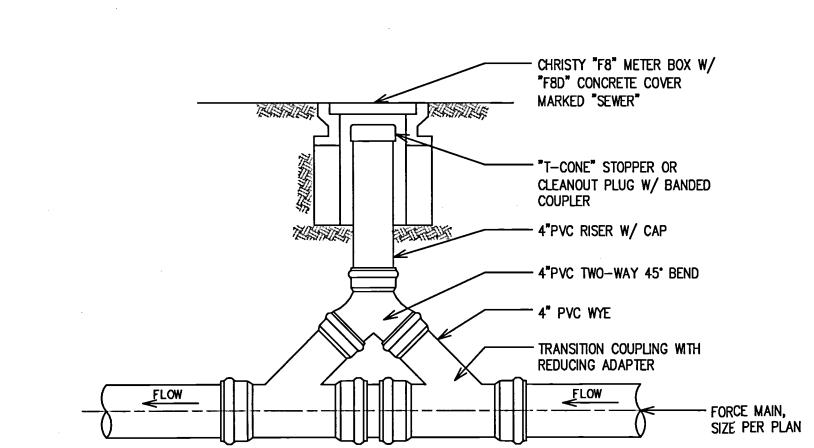
### TYPICAL SECTION

1. DROP INLETS SHALL BE CENTRAL PRECAST OR APPROVED EQUAL.

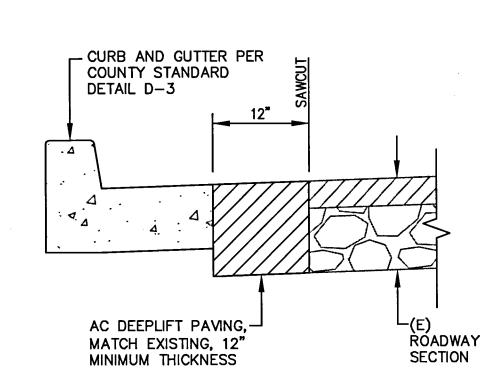
2. AN ENGINEERED PRECAST DROP INLET UNIT CAN BE USED AS AN ALTERNATE. 3. SEE PLAN FOR DROP INLET SIZE AND LOCATION.

DROP INLET DETAIL

NTS



SANITARY SEWER FORCE MAIN CLEANOUT DETAIL

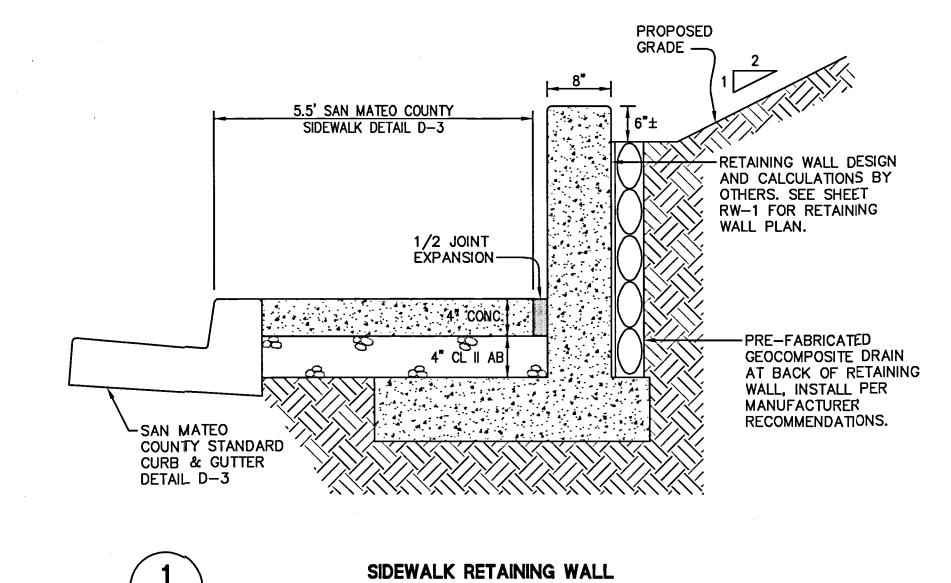


SAWCUT AND AC DEEPLIFT DETAIL NTS

EMENT COWPE S Ош GA DRIVE HIGHLAND TICONDEROC

Sheet Number:

C6.40



IMPROVEMENT PLA PLACE & COWPENS V DETAILS

HIGHLAND ESTATES - STREET II
TICONDEROGA DRIVE, COBBLEHILL P
CONSTRUCTION CONTY OF SAN MATEO COUNTY

DRAWING NAME: J:\Eng95\950168\dwg\CD\Off-Site for PLOT DATE: 05-12-16 PLOTTED BY: trat

C6.50 OF

# **CONCRETE**

- 1. ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE. CONCRETE SHALL BE DESIGNED AND TESTED AS OUTLINED IN THE SPECS.
- 3. ALL CEMENT SHALL CONFORM TO ASTM C-150. PLEASE CROSS-REFERENCE EXPOSURE CLASS SHOWN BELOW WITH CORROSION TABLE: ON SGN-2 FOR CONCRETE REQUIREMENTS
- 4. FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR STANDARD WEIGHT CONCRETE AND ASTM C-330 FOR LIGHT WEIGHT CONCRETE.
- 5. ALL AGGREGATE SHALL BE COMPARABLE TO "SAN GABRIEL VALLEY" AGGREGATE. THE SHRINKAGE SHALL BE AS PER ASTM C-157 WITH THE AVERAGE DRYING SHRINKAGE AT 28-DAYS NOT EXCEEDING 0.04%.
- 6. DRYPACK SHALL BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND. 7. ANCHOR BOLTS, HOLDOWN BOLTS, DOWELS, INSERTS, ETC. SHALL BE
- SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. 8. CONCRETE SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 10-DAYS OR BY AN APPROVED CURING COMPOUND. 9. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS
- FOR MISCELLANEOUS ITEMS TO BE CAST INTO CONCRETE AND FLOOR DEPRESSIONS, PITS, ETC.
- 10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EXPANSION JOINTS, SCORING, ETC. FOR CONCRETE WALKS AND SLABS.
- 11. ALL CONCRETE, TYPE V ALL CONCRETE SHALL REACH MINIMUM COMPRESSIVE STRENGTH 28 - DAYS. 12. ALL CONCRETE WITH F'c GREATER THAN 2,500 PSI SHALL HAVE SPECIAL
- INSPECTION PER SECTION 1704 OF THE 2010 CBC UNLESS NOTED OTHERWISE. 13. CONCRETE FOR SLAB ON GRADE SHALL HAVE A MAXIMUM OF 5 in. OF SLUMP PER ASTM C-143. 5 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. CEMENT ASTM C-150 TYPE 1 OR 2 MIN.

# REINFORCING STEEL

- 1. ALL REINFORCING SHALL BE ASTM A-615 GRADE 40 FOR #5 BARS AND SMALLER. ALL REINFORCING SHALL BE ASTM A-615 GRADE 60 FOR #6 BARS AND LARGER. WELDED WIRE FABRIC TO BE ASTM A-185, LAP 1-1/2 SPACES, 9" MIN. FOR STRUCTURAL SLABS ALL REINFORCING #5 AND LARGER TO BE ASTM A-615 GRADE 60.
- . ALL BARS SHALL BE DEFORMED AS PER ASTM A615 / A615M. 3. ALL BARS SHALL BE CLEAN OF LOOSE FLAKY RUST, GREASE OR OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
- 4. ALL BENDS SHALL BE MADE COLD. 5. SPLICING OF #3-#5 BARS SHALL HAVE A MIN. LAPPING OF 42 DIA. OR 32" MIN., WHICH EVER IS GREATER, IN ALL CONTINUOUS REINFORCEMENT OF FOOTINGS AND CONCRETE WALLS, EXCEPT AS NOTED ON PLANS. MASONRY REINFORCEMENT SHALL HAVE LAPPINGS OF 40 DIA. FOR GRADE 40 & 48 DIA. FOR GRADE 60
- MIN. OR 2'-0", WHICH EVER IS GREATER. 6. ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE.

	CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AT LEAST
	EQUAL TO THE DIAMETER OF THE BARS. COVER SHALL BE AS FOLLOW:
	CONC, MASONRY
A.	POURED AGAINST EARTH 3" 2"
В.	POURED AGAINST FORM BELOW GRADE 2" 2"
	#6 AND LARGER 2" 2"
	#5 AND SMALLER 1 1/2" 1 1/2"
C.	FORMED SLABS 1" 1"
D.	SLABS ON GRADE (FROM TOP OF SLAB) 1" 1"
E.	COLUMNS AND BEAMS TO MAIN BARS 1 1/2" 2"
F.	WALLS - EXPOSED TO WEATHER 1 1/2" 1 1/2"
	NOT EXPOSED TO WEATHER, #11 AND SMALLER 3/4" 3/4"
	#14 AND #18 1 1/2" 1 1/2"

# DRAINAGE AND WATERPROOFING

ALL RETAINING WALLS SHOULD BE PROVIDED WITH PERFORATED PIPE AND GRAVEL SUBDRAINS TO PREVENT ENTRAPMENT OF WATER IN THE BACKFILL PERFORATED PIPE SHOULD CONSIST OF 4-INCH MINIMUM DIAMETER ABS SDR-35 OR PVC SCHEDULE 40 WITH THE PERFORATIONS LAID DOWN. THE PIPE SHOULD BE ENCASED IN A MINIMUM 1-FOOT WIDE COLUMN OF 3/4" TO 1-1/2-INCH TO OPENGRADED GRAVEL. THE GRAVEL SHOULD EXTEND ABOVE THE WALL FOOTINGS TO AN ELEVATION EQUAL TO ONE-THIRDS THE WALL HEIGHT, OR TO A MINIMUM HEIGHT OF 1.5 FEET, WHICHEVER IS GREATER. THE GRAVEL SHOULD BE WRAPPED IN FILTER FABRIC CONSISTING OF MIRAFI 140N, OR EQUIVALENT. SOLID OUTLET PIPES SHOULD BE CONNECTED TO THE SUBDRAINS AND THEN ROUTED TO THE ONSITE AREA DRAIN SYSTEM FOR DISCHARGE OF ANY ACCUMULATED WATER. PIPE SHOULD BE LAID ON AT LEAST 2' OF OPEN GRADED GRAVEL. SEE SOIL REPORT FOR ADDITIONAL INFORMATION.

# SPECIFICATIONS FOR RETAINING WALLS

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON JOB.
- TYPE OF SOIL AND BEARING VALUE SUBJECT TO BUILDING INSPECTOR APPROVAL. ALLOWABLE BEARING VALUE 1500 PSF.
- EXTENDED ALL FOOTINGS 18" MINIMUM BELOW UNDISTURBED NATURAL SOIL. 5. CONCRETE BLOCKS USED FOR THE CONSTRUCTION OF RETAINING WALLS SHALL BE NORMAL WEIGHT UNITS AND SHALL CONFORM TO THE REQUIREMENTS FOR GRADE N.I UNITS OF ASTM SPECIFICATIONS C-90 (LATEST REVISION).
- 6. TYPE "S" MORTAR: 1 PART CEMENT, 4 1/2 PARTS SAND, 1/2 PART LIME PUTTY. . GROUT SHALL BE ACCORDING TO CBC TABLE 21-B f'g=2000 PSI MIN.
- 8. REINFORCING SHALL BE INTERMEDIATE GRADE DEFORMED BARS SHALL CONFORM TO ASTM SPECIFICATION A-305 (LATEST REVISION) AND A A-615 (LATEST REVISION).
- 9. ALL REINFORCING STEEL TO LAP WHERE SPLICED 40 DIAMETERS WITH A MINIMUM LAP OF 24". 10. REINFORCING BARS SHALL BE SET STRAIGHT AND SECURED ACCURATELY IN POSITION. 11. VERTICAL MORTAR JOINTS SHALL BE STAGGERED AND CENTERED ON BLOCKS OF EACH COURSE DIRECTLY BELOW.
- ALL CELLS SHALL BE VERTICALLY ALIGNED SO AS TO MAINTAIN A 5" x 5" MINIMUM CONCRETE VERTICAL STUD, ALIGNED SO AS TO MAINTAIN (4 1/2" x 8 1/2" FOR 12" CONCRETE BLOCKS).
- 12. CALL BUILDING DEPARTMENT FOR INSPÉCTIONS BEFORE POURING FOOTINGS AND AGAIN BEFORE FILLING CELLS WITH CONCRETE. 13. UNLESS OTHERWISE SPECIFIED, NO CONTINUOUS INSPECTION IS REQUIRED. 14. CELL WALLS AND CROSS WEBS WHICH FORM CELLS TO BE FILLED SHALL BE FULL BEDDED IN MORTAR TO PREVENT LEAKAGE OF CONCRETE, AND ALL ALIGNED SO AS TO MAINTAIN JOINTS AROUND SUCH CELLS SHALL BE STRUCK SMOOTH.
- 15. CELLS SHALL BE FILLED WITH CONCRETE IN LIFTS NOT TO EXCEED A HEIGHT OF 4'-0". IF OVER 4'-0" PROVIDE CLEANOUT HOLES AT BOTTOM OF EACH CELL AND EACH LIFT OF CONCRETE. ALL MORTAR CROPPINGS OR DEBRIS
- SHALL BE REMOVED FROM CELLS AND CLEANOUT HOLES SHALL BE SEALED BEFORE CONCRETE IS PLACED.

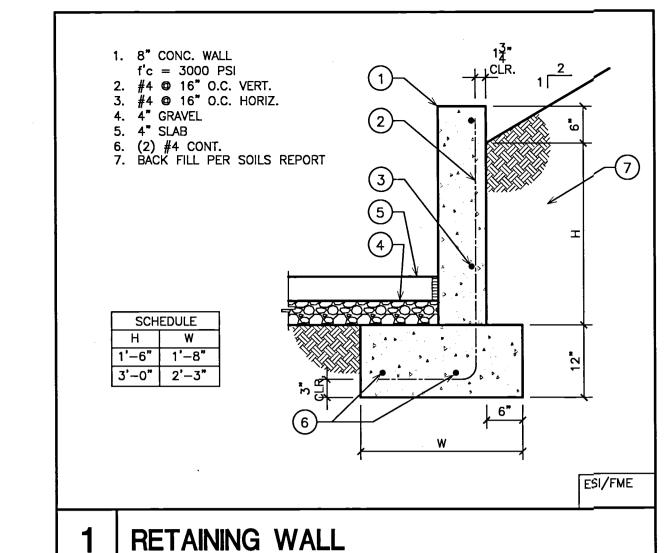
  16. IMPERFECT JOINTING AND WALL SURFACES EXHIBITING DEFECTIVE BLOCKS WILL BE REJECTED AND MUST BE REPLACED AT NO COST TO THE OWNER. 17. RETAINING WALLS ARE NOT DESIGNED FOR SURCHARGE OF PAVING EQUIPMENT. EQUIPMENT SHOULD BE KEPT BACK
- FROM TOP OF WALL A MINIMUM DISTANCE EQUAL TO HEIGHT OF WALL ABOVE FOOTINGS. 18. BACKFILLING SHALL NOT BE STARTED FOR AT LEAST 14 DAYS AFTER THE FILLING OF THE CELLS WITH CONCRETE. 19. DIMENSIONS AND NOTATIONS SUPERCEDE SCALE OF DRAWINGS.
- 20. FOR WALLS WHERE CONCRETE SLAB IS USED TO SECURE TOP OF WALL, ADEQUATE TEMPORARY SHORING SHOULD
- BE PROVIDED PRIOR TO BACK FILLINGS. 21. PROVIDE 4" x 4" MIN. KEY AT BOTTOM OF WALL INTO FOOTING. UNLESS SLAB PROVIDED AT LOW END OF WALL

# STRUCTURAL OBSERVATION REQ.

- 1. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1709 OF THE CALIFORNIA BUILDING CODE FOR THIS PROJECT. STRUCTURAL OBSERVATION IS DEFINED IN CBC SECTION 1702 AS "...THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AT SIGNIFICANT CONSTRUCTION STAGES AND AT
- COMPLETION OF THE STRUCTURAL SYSTEM ... " 2. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE STRUCTURAL SYSTEM, OR BY AN OBSERVER DESIGNATED BY THE ENGINEER OF RECORD. THE STRUCTURAL OBSERVER SHALL BE EMPLOYED BY THE ESI/FME, INC. NOT THE CONTRACTOR.
- 3. REQUIRED OBSERVATION: SINGLE FAMILY=MODELS / MUTLI-FAMILY=ALL UNITS A. FOUNDATION (MULTI-FAMILY ONLY) B. COMPLETE FRAMING PRIOR TO WRAPPING

# SOILS REPORT

1. THE FOUNDATION DESIGN IS BASED ON THE 2013 CBC. PASS = 250ACTIVE = 65SBP = 1500

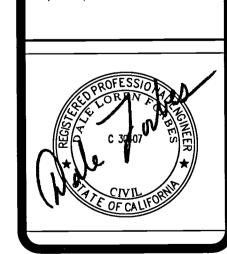


**REVISIONS** 



ONDO.

HIG



CHECKED PLOT DATE 05/03/2016 JOB NO. E776 SHEET

# STREET IMPROVEMENT PLANS FOR

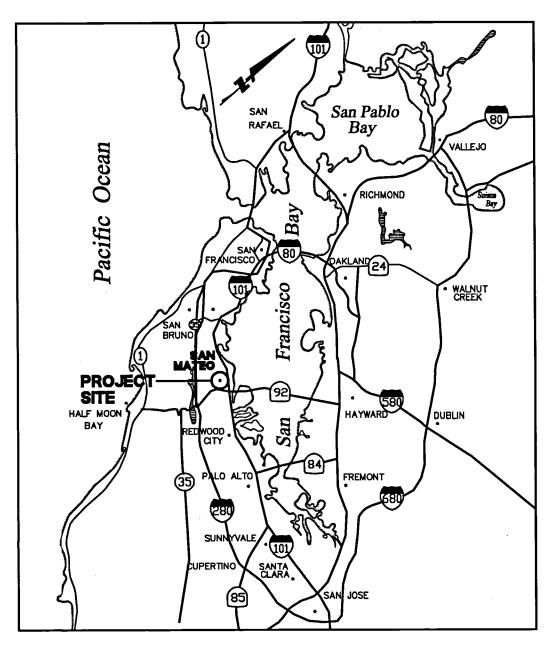
# HIGHLAND ESTATES - TICONDEROGA DRIVE, COBBLEHILL PLACE & COWPENS WAY

COUNTY OF SAN MATEO, CALIFORNIA

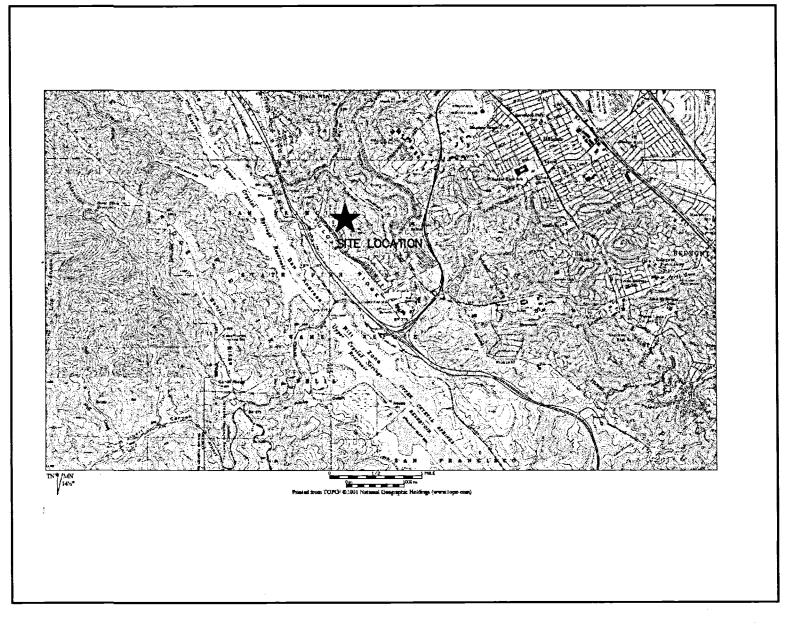
## SHEET INDEX

# GENERAL NOTES, LEGEND AND ABBREVIATIONS PLAN & PROFILE - TICONDEROGA DRIVE PLAN & PROFILE - COBBLEHILL PLACE CONSTRUCTION STAGING & EROSION CONTROL EROSION CONTROL DETAILS AND NOTES CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS

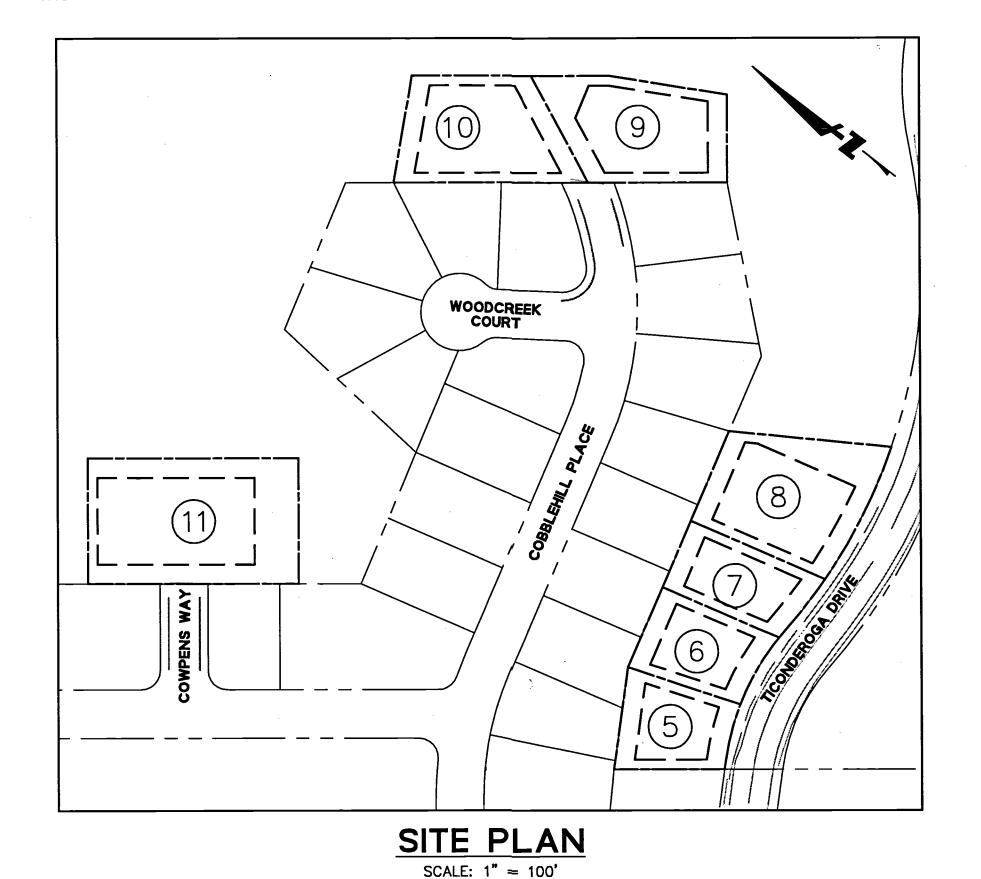
CONSTRUCTION DETAILS



**VICINITY MAP** 



LOCATION MAP



# PROJECT DATA

**ENGINEER:** 

255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065

SAN MATEO, CA 94401-1808

GAS & ELECTRIC

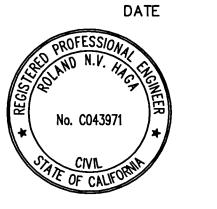
**TELEPHONE:** 

DATE OF PHOTOGRAPHY 9/18/87

# **ENGINEER'S STATEMENT**

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

ROLAND N.V. HAGA R.C.E NO. 43971 EXP 06/30/17 **BKF ENGINEERS** 



C1.00

- 2. PERFORM WORK IN CONFORMANCE WITH THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT TITLED "UPDATED GEOTECHNICAL INVESTIGATION, HIGHLAND ESTATES LOTS 5 THROUGH 11, TICONDEROGA DRIVE/COBBLEHILL PLACE/COWPENS WAY, SAN MATEO COUNTY, CALIFORNIA" PREPARED BY CORNERSTONE EARTH GROUP, DATED OCTOBER 30, 2015. GRADING WORK WILL BE SUBJECT TO APPROVAL OF GEOTECHNICAL ENGINEER.
- ARRANGE FOR REQUIRED INSPECTIONS BY COUNTY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANGE FOR REQUIRED COUNTY INSPECTIONS IN ADVANCE. PROVIDE NOTICE TO COUNTY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.
- 4. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY ENGINEER, WHO WILL OBTAIN APPROVAL FROM COUNTY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS, WHICH SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND COUNTY ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
- 5. REPLACE OR REPAIR EXISTING UTILITIES, IMPROVEMENTS OR FEATURES DAMAGED, REMOVED, OR DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON PLANS OR NOT.
- 6. REPLACE STREET MONUMENTS, LOT CORNERS PIPES AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION. MONUMENTS SHALL BE SET BY A SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
- 7. PREPARE TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM COUNTY ENGINEER BEFORE COMMENCING WORK. PROVIDE FLAG MEN, CONES, BARRICADES AND OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROVIDE SAFE LANE CLOSURE IN CONFORMANCE WITH CALTRANS STANDARDS AND AS APPROVED BY COUNTY ENGINEER.
- 8. PEDESTRIAN TRAFFIC CONTROL TO BE PROVIDED WHEN EXISTING SIDEWALKS CANNOT BE MAINTAINED DURING CONSTRUCTION.
- 9. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES AT THE END OF WORK EVERY WORK DAY.
- 10. PREPARE SHORING PLAN AND SUBMIT TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL. ADEQUATELY SHORE EXCAVATIONS TO PREVENT EARTH FROM SLIDING OR SETTLING AND TO PROTECT EXISTING ADJACENT IMPROVEMENTS FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE SHORING IN CONFORMANCE WITH APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND OSHA WHERE EXCAVATIONS ARE 5 FEET OR MORE IN
- 11. IMPLEMENT CONSTRUCTION DUST CONTROL MEASURES TO REDUCE PARTICULATE GENERATION TO A LESS THAN SIGNIFICANT LEVEL. PROVIDE DUST CONTROL IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT MINIMUM REQUIREMENTS. IMPLEMENT THE FOLLOWING CONSTRUCTION PRACTICES EXCEPT WHEN IT IS RAINING.
- 11.A. WATER ACTIVE EXTERIOR SOIL AREAS AT LEAST TWICE DAILY.
- COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL OR PROVIDE 2 FEET OF FREEBOARD.
- 11.C. PAVE, APPLY WATER THREE TIMES DAILY OR APPLY NON-TOXIC SOIL STABILIZER ON UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING
- 11.D. SWEEP PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS DAILY.
- APPLY HYDROSEED OR NON-TOXIC SOIL STABILIZER TO INACTIVE CONSTRUCTION AREAS.
- ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON-TOXIC SOIL STABILIZER TO EXPOSED SOIL STOCKPILES.
- INSTALL SANDBAGS AND OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 11.H. LIMIT TRAFFIC SPEED ON UNPAVED ROADS TO 15 MPH.
- 11.I. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE
- 12. KEEP STREETS CLEAN OF DIRT, MUD AND OTHER CONSTRUCTION DEBRIS. CLEAN AND SWEEP STREETS ON A DAILY BASIS DURING THE WORK WEEK.
- 13. SHOULD IT APPEAR THAT THE WORK IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN CONSTRUCTION DOCUMENTS, NOTIFY ENGINEER AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK IN QUESTION.
- 14. CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR 8. COORDINATE WITH COUNTY OF SAN MATED AND CRYSTAL SPRINGS SANITATION REGISTERED IN THE STATE OF CALIFORNIA.
- 15. IF BKF ENGINEERS IS RETAINED TO PROVIDE CONSTRUCTION STAKING SERVICES. CONTRACTOR WILL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED. RESTAKING SHALL BE AT CONTRACTOR'S EXPENSE.
- MATCH EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH SMOOTH TRANSITION TO AVOID ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
- 17. VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND OVERALL PROJECT REQUIREMENT PRIOR TO BIDDING PROJECT.
- 18. OBTAIN AND PAY FOR PERMITS AND LICENSES AS REQUIRED TO PERFORM WORK WITHIN THE COUNTY OF SAN MATEO PRIOR TO START OF WORK. PERMITS MAY INCLUDE ENCROACHMENT PERMIT FOR WORK WITHIN COUNTY RIGHT-OF-WAY AND GRADING/UTILITY PERMIT.
- CONTRACTOR IS RESPONSIBLE FOR TRAFFIC AND PEDESTRIAN CONTROL DURING CONSTRUCTION.
- 20. OBTAIN APPROVAL OF IMPORT SOIL MATERIAL FROM GEOTECHNICAL ENGINEER PRIOR TO DISTRIBUTING MATERIAL OVER SITE.
- 21. PROTECT ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS, STREETS AND OTHER FEATURES FROM DAMAGE BY CONTRACTOR'S OPERATIONS. REPAIR, REPLACE OR CLEAN ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, 13. CARE MUST BE TAKEN TO PROTECT THE EXISTING SEWER DISTRICT FACILITIES WHEN SIDEWALKS, STREETS AND OTHER FEATURES TO SATISFACTION OF OWNER.
- MAINTAIN AND MANAGE CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES AT THE CONSTRUCTION SITE.
- NOTIFY COUNTY ENGINEER A MINIMUM OF 24 HOURS PRIOR TO STARTING WORK ON OFF-SITE DRAINAGE AND SEWER FACILITIES, GRADING, PAVING, OR WORK IN THE COUNTY RIGHT-OF-WAY.
- 24. MAKE EFFORTS TO MINIMIZE CONSTRUCTION NOISE.

- 24.A. MAINTAIN EQUIPMENT USED ON SITE IN GOOD MECHANICAL CONDITION TO MINIMIZE NOISE CREATED BY FAULTY OR POORLY MAINTAINED ENGINE, DRIVE-TRAIN AND OTHER COMPONENTS.
- 24.B. EQUIPMENT EXCEEDING 110 DBA MEASURED 25 FEET FROM THE PIECE OF EQUIPMENT WILL NOT BE ALLOWED ON SITE.
- 24.C. SELECT APPROPRIATE EQUIPMENT TO MINIMIZE NOISE GENERATION. USE THE FOLLOWING TECHNIQUES TO MINIMIZE NOISE GENERATION SUBJECT TO EQUIPMENT AVAILABILITY AND COST CONSIDERATIONS. USE SCRAPERS AS MUCH AS POSSIBLE FOR EARTH REMOVAL, RATHER THAN NOISIER LOADERS AND HAUL TRUCKS. USE BACKHOES FOR BACKFILLING AS IT IS QUIETER THAN DOZERS OR LOADERS. USE MOTOR GRADERS RATHER THAN BULLDOZERS FOR FINAL GRADING.

### II. EXISTING CONDITIONS

- EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A FIELD TOPOGRAPHIC SURVEY OF THE PROJECT SITE BY BKF ENGINEERS, DATED JUNE 2009. ACTUAL CONDITIONS ENCOUNTERED ON SITE MAY VARY FROM THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND CONDUCT THEIR OWN INVESTIGATIONS TO UNDERSTAND AND VERIFY EXISTING CONDITIONS AT THE SITE.
- 2. EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.
- 3. VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AFFECTING UTILITIES. POTHOLE WHERE NEEDED TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.
- 4. CONTACT USA (UNDERGROUND SERVICES ALERT) AT 1-800-227-2600, AND AFFECTED UTILITY COMPANIES A MINIMUM OF 2 WORKING DAYS PRIOR TO STARTING WORK TO REQUEST UTILITIES BE MARKED.

- REMOVE FROM SITE AND DISPOSE OF IN LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES NOT RENOVED DURING DEMOLITION OR ROUGH GRADING AND ENCOUNTERED DURING WORK ON SITE.
- 1.A. REMOVE WOOD OR CONCRETE STRUCTURES, SLABS, FOOTINGS, GRADE BEAMS, DECKS, DOCKS, AND OTHER SIMILAR STRUCTURES.
- REMOVE LANDSCAPING, UTILITIES AND IRRIGATION LINES AS SPECIFIED BY GEOTECHNICAL ENGINEER.
- 1.C. REMOVE ABANDONED IN-GROUND STRUCTURES, SUCH AS CULVERTS, UTILITY VAULTS, AND FOUNDATIONS AS SPECIFIED BY GEOTECHNICAL ENGINEER.

- 1. DEWATER AREAS COVERED WITH STANDING WATER PRIOR TO PLACEMENT OF FILL.
- 2. DISPOSE OF WATER FROM DEWATERING OPERATION IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

- 1. DO NOT OPERATE WATER VALVES OR OTHER WATER DISTRICT FACILITIES. REQUIRED OPERATION WILL BE PERFORMED BY UTILITY DISTRICT PERSONNEL ONLY. NOTIFY UTILITY DISTRICT 2 WORKING DAYS PRIOR TO REQUIRING FACILITY OPERATION.
- 2. PROVIDE MINIMUM 12 INCH VERTICAL CLEARANCE FROM EDGE OF PIPE TO EDGE OF PIPE BETWEEN ADJACENT UTILITY PIPES AT UTILITY CROSSINGS UNLESS OTHERWISE
- COMPLETE ELECTRIC, GAS, TELEPHONE, CABLE AND OTHER JOINT TRENCH WORK IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDER. NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK. IF FXISTING WATER, SEWER, GAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.
- 4. PROTECT UTILITIES FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.
- 5. PROVIDE UTILITY STRUCTURES IN PAVED AREAS SUITABLE FOR H-20 LOADING.
- 6. PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.
- CONSTRUCT GRAVITY FLOW UTILITIES FROM DOWNSTREAM CONNECTION POINT TO UPSTREAM TERMINUS.
- DISTRICT FOR INSPECTION OF WORK ON DISTRICT FACILITIES.
- 9. ALL WATER LATERALS AND SERVICES SHALL BE INSTALLED TO THE STANDARDS OF THE CALIFORNIA WATER SERVICE COMPANY. EXISTING WATER MAINS OR LATERALS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND TESTED TO THE SATISFACTION OF THE WATER COMPANY.
- A SEWER DISTRICT REPRESENTATIVE.
- 11. THE SEWER DISTRICT OFFICE SHALL BE CONTACTED (650-363-4100) TO SCHEDULE INSPECTIONS. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF ONE WORKING DAY PRIOR TO THE INSPECTION. NO INSPECTIONS SHALL OCCUR ON FRIDAYS, WEEKENDS OR HOLIDAYS UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE SEWER
- 12. A VIDEO INSPECTION OF THE SEWER MAIN (MANHOLE TO MANHOLE) WHERE THE NEW LATERALS CONNECT TO THE SEWER DISTRICT MAIN SHALL BE PERFORMED BY THE APPLICANT OR CONTRACTOR AND SUBMITTED TO THE SEWER DISTRICT FOR REVIEW AFTER LATERAL CONNECTIONS HAVE BEEN MADE. THE VIDEO INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE SPECIAL PROVISIONS FOR CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS (A COPY CAN BE OBTAINED FROM THE COUNTY'S WEBSITE AT WWW.CO.SANMATEO.CA.US/SEWERS). THE SEWER DISTRICT WILL REVIEW THE VIDEO INSPECTION TO DETERMINE WHÉTHER THE WORK PERFORMED IS ACCEPTABLE. ALL UNACCEPTABLE WORK SHALL BE CORRECTED TO THE SEWER DISTRICT'S SATISFACTION AT THE APPLICANT'S EXPENSE.
- NEW SEWER LATERALS AND CONNECTIONS ARE INSTALLED. ANY DAMAGES TO THE SEWER DISTRICT FACILITIES DURING THE INSTALLATION OF THE NEW LATERALS SHALL BE REPAIRED BY THE APPLICANT PER THE SEWER DISTRICT STANDARD DETAILS AND AT THE APPLICANT'S EXPENSE. THE SEWER DISTRICT MUST BE NOTIFIED OF ANY DAMAGES TO THE SANITARY SEWER FACILITIES AND ANY REPAIRS MUST BE INSPECTED BY A SEWER DISTRICT REPRESENTATIVE.
- 14. A MINIMUM OF 6' IS REQUIRED BETWEEN THE PROPERTY LINE CLEANOUT AND

### VI. EARTHWORK AND GRADING

- 1. OFF-SITE IMPORT FILL MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
- 2. TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH AND DEBRIS WILL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
- 3. REMOVE DEBRIS FROM AREAS OF EARTHWORK PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS.
- 4. PLACE AND COMPACT FILL MATERIAL AS RECOMMENDED IN GEOTECHNICAL REPORT. PLACE FILL MATERIAL IN MAXIMUM 8 INCH UNCOMPACTED THICKNESS. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.
- 5. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF TEARTHWORK QUANTITIES.

1. KEEP ACCURATE RECORD OF THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A COPY OF THE FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. PROVIDE COPY OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND WHEN

### VII. STATEMENT OF RESPONSIBILITY

- 1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION 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, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE COUNTY OF SAN MATEO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE COUNTY OF SAN MATEO, RESPECTIVELY.
- UNAUTHORIZED CHANGES AND USES
- 1. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE COUNTY ENGINEER AND THE PREPARER OF THESE PLANS.

### X. DRAWING LANGUAGE

NOTES AND CALLOUTS ON DRAWINGS MAY USE IMPERATIVE LANGUAGE. REQUIREMENTS EXPRESSED IMPERATIVELY ARE TO BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

## CONDITIONS OF APPROVAL NOTES

### CONSTRUCTION NOTES

- 1. THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE EMULSIFIED FUELS.
- 2. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- 3. FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB VEGETATION REMOVAL/REPLACEMENT NOTES LEVEL THREE VERIFIED CONTROL DEVICES.
- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 6. PAVE. APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 8. SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- 9. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- 10. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 11. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 10. SANITARY SEWER CONNECTIONS AND TESTING MUST BE MADE IN THE PRESENCE OF 12. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
  - 13. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
  - INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.

15. INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.

- 16. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.

## NOISE NOTES

- EQUIPMENT AND TRUCKS USED FOR PROJECT GRADING AND CONSTRUCTION WOULD UTILIZE THE BEST AVAILABLE NOISE CONTROL TECHNIQUES (E.G., IMPROVED EXHAUST MUFFLERS, EQUIPMENT REDESIGN, USE OF INTAKE SILENCERS, DUCTS, ENGINE ENCLOSURES. AND ACOUSTICALLY-ATTENUATING SHIELDS OR SHROUDS) IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS.
- EQUIPMENT USED FOR PROJECT GRADING AND CONSTRUCTION WOULD BE HYDRAULICALLY OR ELECTRICALLY POWERED IMPACT TOOLS (E.G., JACK HAMMERS AND PAVEMENT BREAKERS) WHEREVER POSSIBLE TO AVOID NOISE ASSOCIATED WITH COMPRESSED AIR EXHAUST FROM PNEUMATICALLY-POWERED TOOLS. COMPRESSED AIR EXHAUST SILENCERS WOULD BE USED ON OTHER EQUIPMENT. OTHER QUIETER PROCEDURES WOULD BE USED SUCH AS DRILLING RATHER THAN IMPACT EQUIPMENT WHENEVER FEASIBLE.
- THE GRADING AND CONSTRUCTION ACTIVITY WOULD BE KEPT TO THE HOURS OF 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY. SATURDAY HOURS (8:00 AM TO 5:00 PM) ARE PERMITTED UPON THE DISCRETION OF COUNTY APPROVAL BASED ON

INPUT FROM NEARBY RESIDENTS AND BUSINESSES. SATURDAY CONSTRUCTION (8:00 AM TO 5:00 PM) WOULD BE ALLOWED ONCE THE BUILDINGS ARE FULLY ÈNCLOSED. NOISE GENÉRATING GRADING AND CONSTRUCTION ACTIVITIES SHALL NOT OCCUR AT ANY TIME ON SUNDAYS, THANKSGIVING AND CHRISTMAS.

4. RESIDENTIAL PROPERTY OWNERS WITHIN 200 FEET OF PLANNED CONSTRUCTION AREAS SHALL BE NOTIFIED OF THE CONSTRUCTION SCHEDULE IN WRITING, PRIOR TO CONSTRUCTION; THE PROJECT SPONSOR SHALL DESIGNATE A "DISTURBANCE COORDINATOR" WHO SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COMPLAINTS REGARDING CONSTRUCTION NOISE; THE COORDINATOR (WHO MAY BE AN EMPLOYEE OF THE DEVELOPER OR GENERAL CONTRACTOR) SHALL DETERMINE THE CAUSE OF THE COMPLAINT AND SHALL REQUIRE THAT REASONABLE MEASURES WARRANTED TO CORRECT THE PROBLEM BE IMPLEMENTED; A TELEPHONE NUMBER OF THE NOISE DISTURBANCE COORDINATOR SHALL BE CONSPICUOUSLY POSTED AT THE CONSTRUCTION SITE FENCE AND ON THE NOTIFICATION SENT TO NEIGHBORS ADJACENT TO THE SITE.

### **ASBESTOS NOTES**

IF NATURALLY OCCURRING ASBESTOS IS IDENTIFIED AT THE SITE, A SITE HEALTH AND SAFETY (H&S) PLAN INCLUDING METHODS FOR CONTROL OF AIRBORNE DUST SHALL BE PREPARED. THIS PLAN SHALL BE REVIEWED AND APPROVED BY THE COUNTY OF SAN MATEO PRIOR TO GRADING IN AREAS UNDERLAIN BY SERPENTINE-BEARING SOILS OR BEDROCK AND NATURALLY OCCURRING ASBESTOS THE H&S PLAN SHALL STRICTLY CONTROL DUST-GENERATING EXCAVATION AND COMPACTION OF MATERIAL CONTAINING NATURALLY OCCURRING ASBESTOS. THE PLAN SHALL ALSO IDENTIFY SITE-MONITORING ACTIVITIES DEEMED NECESSARY DURING CONSTRUCTION (E.G., AIR MONITORING). WORKER MONITORING SHALL ALSO BE PERFORMED AS APPROPRIATE. THE PLAN SHALL DEFINE PERSONAL PROTECTION METHODS TO BE USED BY CONSTRUCTION WORKERS. ALL WORKER PROTECTION AND MONITORING SHALL COMPLY WITH PROVISIONS OF THE MINING SAFETY AND HEALTH ADMINISTRATION (MSHA) GUIDELINES, CALIFORNIA DIVISION OF OCCUPA-TIONAL SAFETY AND HEALTH (DOSH), AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

2. IF NATURALLY OCCURRING ASBESTOS IS FOUND AT THE SITE, A SOIL MANAGEMENT PLAN SHALL BE DEVELOPED AND APPROVED BY THE COUNTY PLANNING DEPARTMENT TO PROVIDE DETAILED DESCRIPTIONS OF THE CONTROL AND DISPOSITION OF SOILS CONTAINING NATURALLY OCCURRING ASBESTOS. SERPENTINE MATERIAL PLACED AS FILL SHALL BE SUFFICIENTLY BURIED IN ORDER TO PREVENT EROSION BY WIND OR SURFACE WATER RUNOFF, OR EXPOSURE TO FUTURE HUMAN ACTIVITIES, SUCH AS LANDSCAPING OR SHALLOW TRENCHES. ADDITIONALLY, THE BAAQMD SHALL BE NOTIFIED PRIOR TO THE START OF ANY EXCAVATION IN AREAS CONTAINING NATURALLY OCCURRING ASBESTOS.

1. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 15) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A BLDG COR LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN.

### TREE PROTECTION NOTES

1. THE APPLICANT SHALL ESTABLISH AND MAINTAIN TREE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT. TREE PROTECTION ZONES SHALL BE DELINEATED USING 4-FOOT TALL ORANGE PLASTIC FENCING SUPPORTED BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPLINES AS POSSIBLE WHILE STILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE. THE APPLICANT SHALL MAINTAIN TREE PROTECTION ZONES FREE OF EQUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THESE AREAS. SHOULD ANY LARGE ROOTS OR LARGE MASSES OF ROOTS NEED TO BE CUT. THE ROOTS SHALL BE INSPECTED BY A CERTIFIED ARBORIST OR REGISTERED FORESTER PRIOR TO CUTTING. ANY ROOT CUTTING SHALL BE MONITORED BY AN ARBORIST OR FORESTER AND DOCUMENTED. ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS. NORMAL IRRIGATION SHALL BE MAINTAINED, BUT OAKS SHOULD NOT NEED SUMMER IRRIGATION, THE ABOVE INFORMATION SHALL BE ON-SITE AT ALL TIMES.

- VEGETATION REMOVED IN AREAS OUTSIDE OF BUILDING FOOTPRINTS, DRIVEWAYS, AND CONSTRUCTION ACCESS AREAS SHALL BE REPLACED WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, IMMEDIATELY AFTER GRADING IS COMPLETE IN THAT AREA. PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION TO THE CURRENT PLANNING SECTION, SUBJECT TO REVIEW AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR
- 2. THE APPLICANT SHALL REPLACE ALL VEGETATION REMOVED IN ALL AREAS NOT COVERED BY CONSTRUCTION WITH DROUGHT-TOLERANT. NON-INVASIVE PLANTS. ONCE CONSTRUCTION IS COMPLETED. PRIOR TO THE CURRENT PLANNING SECTION'S FINAL APPROVAL OF ANY BUILDING PERMIT. THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION, SUBJECT TO REVIEW AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR.

## DUST CONTROL NOTES

- ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS. EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL WATER QUALITY CONTROL BOARD.

## DISCOVERY OF HUMAN REMAINS NOTE

THE APPLICANT AND CONTRACTORS MUST BE PREPARED TO CARRY OUT THE REQUIREMENTS OF CALIFORNIA STATE LAW WITH REGARD TO THE DISCOVERY OF HUMAN REMAINS DURING CONSTRUCTION, WHETHER HISTORIC OR PREHISTORIC. IN THE EVENT THAT ANY HUMAN REMAINS ARE ENCOUNTERED DURING SITE DISTURBANCE, ALL GROUND-DISTURBING WORK SHALL CEASE IMMEDIATELY AND THE COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY. IF THE CORONER DETERMINES THE REMAINS TO BE NATIVE AMERICAN, THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS. A QUALIFIED ARCHAEOLOGIST, IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION, SHALL RECOMMEND SUBSEQUENT MEASURES FOR DISPOSITION OF THE REMAINS.

## GEOTECHNICAL INSPECTION NOTE

PRIOR TO ISSUANCE OF BUILDING PERMITS, THE PROJECT GEOTECHNICAL CONSULTANT SHALL FIELD INSPECT (AND INVESTIGATE, AS NEEDED) ALL PROPOSED DRAINAGE DISCHARGE LOCATIONS AND VERIFY THAT PROPOSED DRAINAGE DESIGNS ARE ACCEPTABLE FROM A SLOPE STABILITY/EROSION PERSPECTIVE OR RECOMMEND APPROPRIATE MODIFICATIONS.

### **LEGEND**

EXISTING PROPERTY LINE BOUNDRY — ss — ( )— sz — EXISTING SANITARY SEWER W/MANHOLE EXISTING STORM DRAIN DRAIN W/ MANHOLE EXISTING WATERLINE EXISTING CATCH BASIN --- GAS ---- GAS --- EXISTING GAS LINE ALL UTILITIES ARE APPROXIMATELY LOCATED

PROPOSED PROPERTY LINE BOUNDRY \_\_\_\_\_\_\_ SANITARY SEWER W/ MANHOLE STORM DRAIN W/ MANHOLE & CATCH BASIN WATER LINE W/ FIRE HYDRANT GAS GAS MAIN ETC UNDERGROUND ELECTRIC, TELEPHONE, & C.A.T.V. STORM DRAIN EASEMENT

EXISTING TREE & ELEVATION (TREE NO. REFERS TO TREE IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP) INDICATES TREE TO BE REMOVED

SANITARY SEWER EASEMENT

LEATHERWODD BUSH EUCALYPTUS TREE POINT OF CONNECTION FIRE DEFENSE ZONE FLOW-THROUGH PLANTER. PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

# **ABBREVIATIONS**

NOT IN CONTRACT ASPHALTIC CONCRETE OAK TREE BEGINNING PEPPER TREE BAY LAUREL PLANNED DEVELOPMENT BUILDING CORNER BOTTOM OF WALL PINE TREE PLANNED DEVELOPMENT BACK OF WALK PUBLIC UTILITY EASEMENT CATCH BASIN REINFORCED CONCRETE PIPE CENTERLINE REDWOOD TREE CHAIN LINK FENCE CORRUGATED METAL PIPE RET WALL RETAINING WALL RIGHT OF WAY CONCRETE DECOMPOSED GRANITE STORM DRAIN DRAIN INLET STORM DRAIN CATCH BASIN EXISTING GRADE STORM DRAIN CLEANOUT EDGE OF PAVEMENT SDCO STORM DRAIN DROP INLET EUCALYPTUS TREE STORM DRAIN MANHOLE EXISTING SANITARY SEWER FACE OF CURB SANITARY SEWER CLEAN OUT FINISH GRADE SANITARY SEWER MANHOLE FLOW LINE TREE FENCE TOP OF CURB GRADE BREAK TOE TOP TOE OF SLOPE GAS METER TOP OF SLOPE **GROUND SHOT** TOW GRATE TOP OF WALL UTILITY BOX EDGE OF GRAVEL ROAD WATER **GUY WIRE** WATER METER INVERT WATER VALVE JOINT POLE

# BENCHMARK:

LIP OF GUTTER

CONC

FNC

GRAVEL

GB

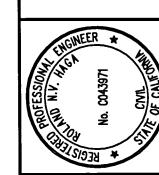
THE PROJECT BENCHMARK IS THE TOP OF AN IRON PIPE, ELEVATION OF 538.23. LOCATED WITHIN A MONUMENT BOX AT THE INTERSECTION OF THE CENTERLINES OF COBBLEHILL PLACE AND NEW BRUNSWICK DRIVE IN SAN MATEO, CALIFORNIA. THE ELECTAION SHOWN IN BASED UPON A SURVEY BY BKF ENGINEERS IN MARCH OF 2011 AND IS BASED UPON AN ASSUMED ELEVATION.

# **BASIS OF BEARINGS:**

THE BEARING NORTH 47° 00' 00" EAST BETWEEN TWO FOUND MONUMENTS ON CENTERLINE OF BUNKER HILL DRIVE AS SAID CENTERLINE AND DRIVE IS SHOWN ON THAT CERTAIN MAP ENTITLED "TRACT NO. 762, THE HIGHLANDS, UNIT NO. 8" FILED FOR RECORD DECEMBER 18, 1957 IN VOLUME 48 OF MAPS AT PAGES 16-17 IN THE OFFICE OF THE RECORDER, SAN MATEO COUNTY, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS MAP.





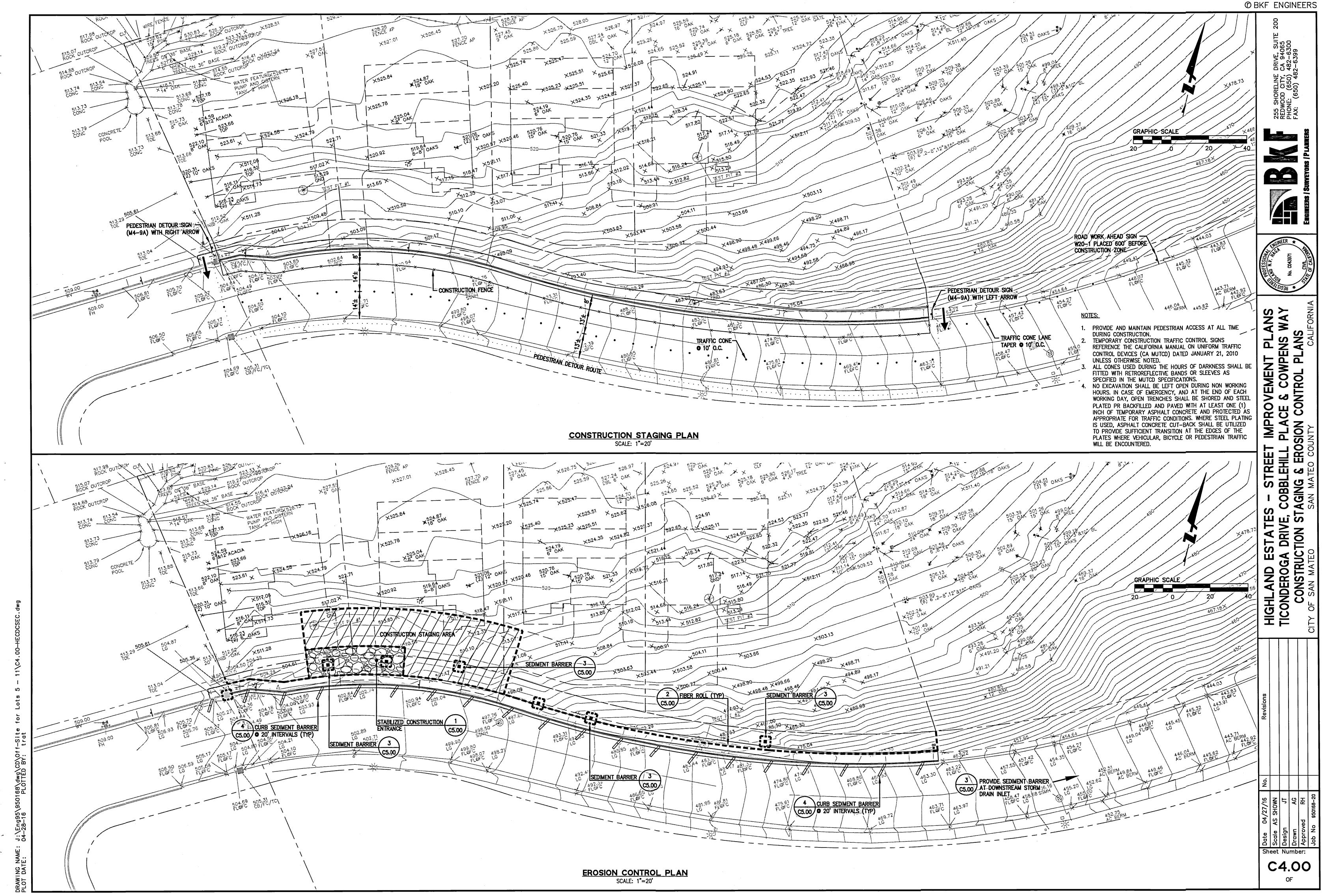


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- THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA, EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STORM RUN OFF FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- 6. BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.
- 7. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT). WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE EMULSIFIED FUELS.
- 10. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- 11. FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.
- 12. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- 13. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- 14. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 15. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 16. SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.
- 17. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- 18. TEMPORARY AND PERMANENT SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.
- 19. SEED MIX FOR REVEGETATION AND HYDROSEEDING: NORTHERN CALIFORNIA COVER MIX BY ACBRIGHT OR EQUAL
  - 30% BLUE WILDRYE
  - 30% MEADOW BARLEY
- 20% ZORRO FESCUE 10% PURPLE NEEDLE GRASS
- 10% CALIFORNIA NATIVE WILDFLOWERS
- APPLY AT 40 POUNDS PER ACRE MINIMUM
- 20. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 21. DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY A SILT FENCE/FIBER ROLLS.
- 22. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.
- 23. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 24. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.
- 25. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.
- 26. INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.
- 27. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.
- 28. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 15) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED. IN WRITING. BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION. AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN.
- 29. STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 15 AND APRIL 15. STABILIZING SHALL INCLUDE BOTH PROACTIVE MEASURES, SUCH AS THE PLACEMENT OF STRAW BALES OR COIR NETTING. AND PASSIVE MEASURES, SUCH AS MINIMIZING VEGETATION REMOVAL AND REVEGETATING DISTURBED AREAS WITH VEGETATION THAT IS COMPATIBLE WITH THE SURROUNDING ENVIRONMENT.

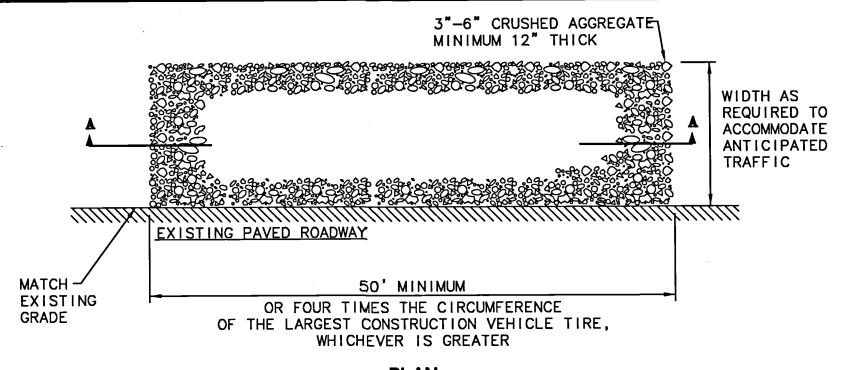
ALL EROSION CONTROL MEASURES SHALL BE IN

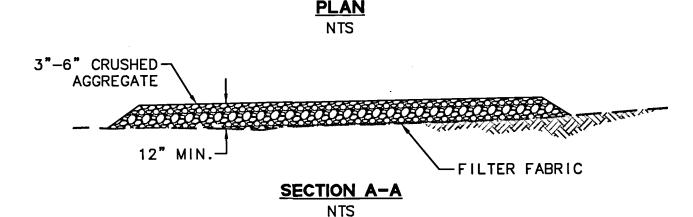
PLACE BY OCTOBER 15 AND MAINTAINED DURING

30. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.

ALL PHASES OF CONSTRUCTION.

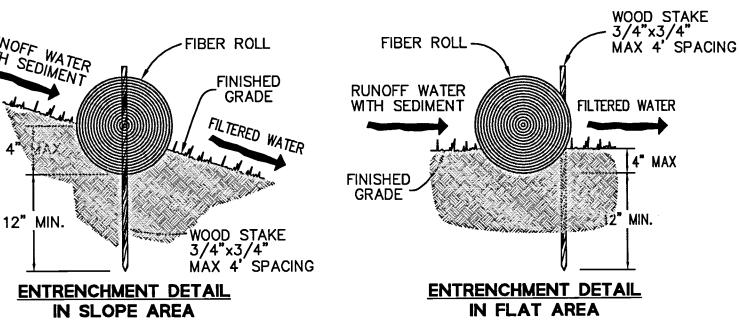
- 31. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
- 32. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.
- 33. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- 34. DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE COURSES.
- 35. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 36. PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER.
- 37. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- 38. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- 39. ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS. EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- 40. A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL WATER QUALITY CONTROL BOARD.
- 41. IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN
- 42. PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPOILS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCIRCLED BY SILT FENCES/FIBER ROLLS.
- 43. STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE
- 44. HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.
- 45. GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.
- 46. THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSIGN AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE CITY.
- 47. SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.





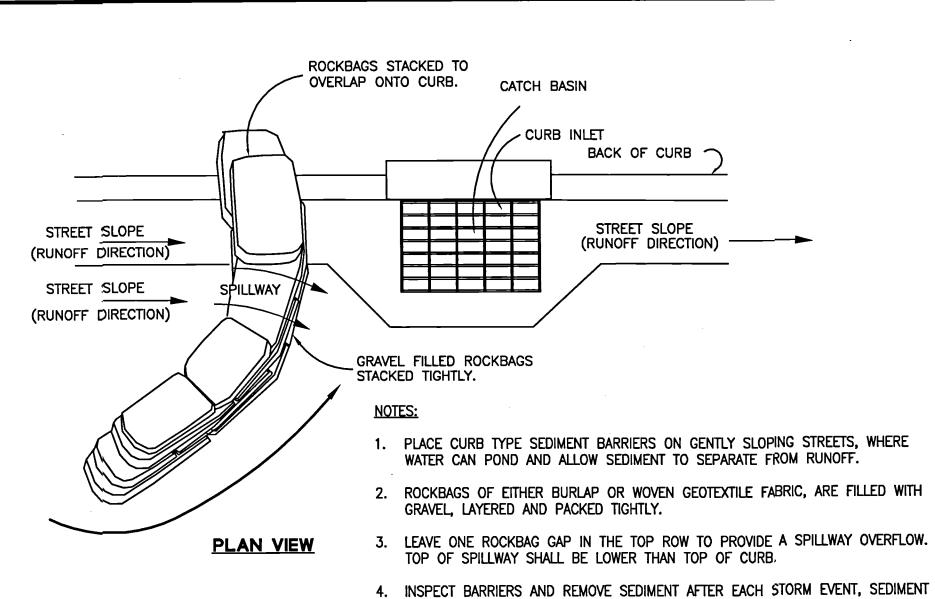
- ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.
- WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
- 3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 6" STONE.
- 4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
- 5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 6. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.





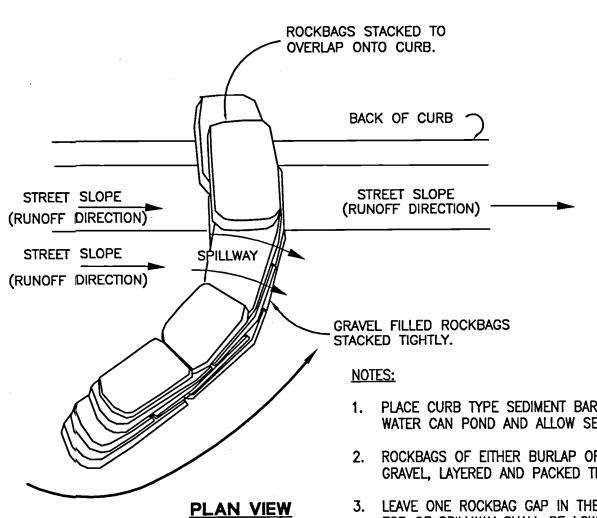
- 1. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.
- 2. ADJACENT ROLLS SHALL TIGHTLY ABUT.
- 3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.





AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY. **CURB AND GUTTER ROCKBAG** 

SEDIMENT BARRIER ON SLOPE TIME FRAME: BETWEEN FINAL PAVING OPERATIONS AND PROJECT COMPLETION)



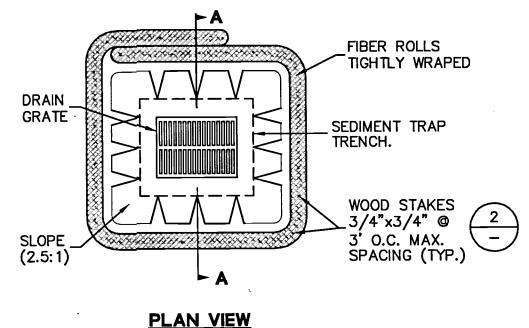
PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.

ROCKBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.

3. LEAVE ONE ROCKBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB.

4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.





EMBED FIBER 2

INTO SOIL.

PROVIDE 1' WIDE BY 6" -DEEP SEDIMENT TRAP

TRENCH AROUND INLET.

1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. (FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROX. 8" DIA. AND 20 - 30 FT. LONG.)

FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH. 3" - 4" DEEP. DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.

-- PONDING HEIGHT

FIBER ROLLS

(TIME FRAME: AREA DRAINS - BETWEEN AREA DRAIN INSTALLATION AND PROJECT COMPLETION CURB INLETS - BETWEEN CURB INLET INSTALLATION AND FINAL PAVING OPERATIONS)

SECTION A-A

DROP INLET FIBER ROLLS SEDIMENT BARRIER

ANS WAY

MENT OWP!

S - STRE COBBLEHI TRUCTIC

STATI DRIVE

HIGHLAND TICONDEROG

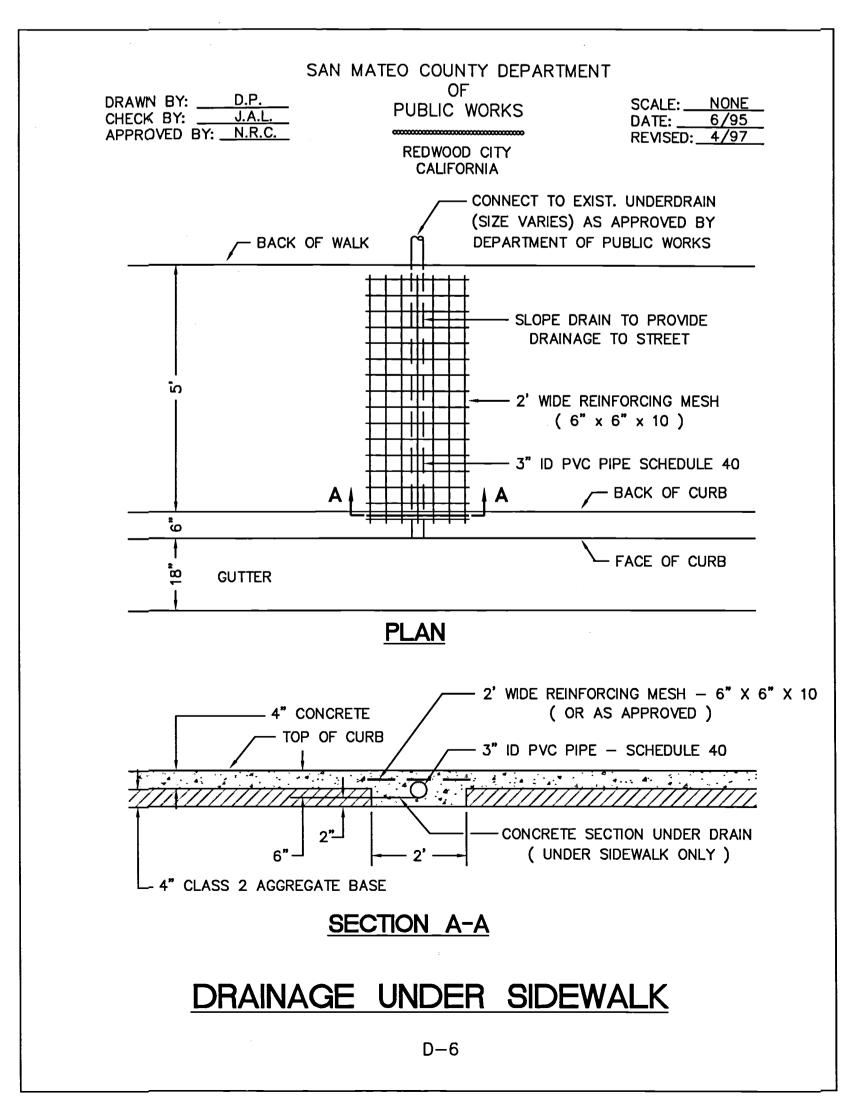
### SAN MATEO COUNTY DEPARTMENT DRAWN BY: D.P. SCALE: NONE PUBLIC WORKS CHECK BY: \_\_\_\_J.A.L. DATE: 7/97 APPROVED BY: N.R.C. REVISED: \_\_\_\_\_ REDWOOD CITY CALIFORNIA

## **GENERAL NOTES**

- 1. CURB RAMPS THAT HAVE A RAMP SLOPE FLATTER THAN 6.67% SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE RAMP AND 24" MINIMUM LENGTH. DETECTABLE WARNING SURFACES, AT THE OPTION OF THE CONTRACTOR, SHALL BE CONSTRUCTED BY CAST-IN-PLACE OR STAMPED METHOD, OR CONSIST OF A PREFABRICATED SURFACE. THE PRE-FABRICATED SURFACE SHALL REQUIRE APPROVAL BY THE ENGINEER.
- 2. TRANSITIONS FROM RAMPS TO WALKS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES. THE BOTTOM OF THE RAMP SHALL HAVE A 1/2" LIP AT 45".
- 3. INSTALL SLIP DOWELS 18" O.C. AT EXPANSION JOINTS.
- 4. MINIMUM WIDTH OF RAMP, NOT INCLUDING RETAINING CURB, SHALL BE 4 FEET.
- 5. THE SURFACE OF RAMP SHALL HAVE A TRANSVERSE BROOMED SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDEWALK EXCEPT WHEN LOCATED IN CENTER OF CURB RETURN.
- 6. BACKFILL MATERIAL TO BE PLACED FLUSH WITH TOP OF CURB.
- 7. CONSTRUCT MONOLITHIC CURB, GUTTER, AND SIDEWALK.
- 8. SUB-BASE MATERIAL WITHIN 2.5' OF SUBGRADE SHALL BE COMPACTED TO 95%.
- 9. RECONSTRUCT SIDEWALK TO NEAREST SCORE LINE AND INSTALL EXPANSION JOINT.
- 10. UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED BY OTHERS PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION

SIDEWALK ACCESS RAMP FOR SIDEWALKS LESS THAN 6' WIDE NO SCALE

> (SHEET 3 OF 3) D-4C

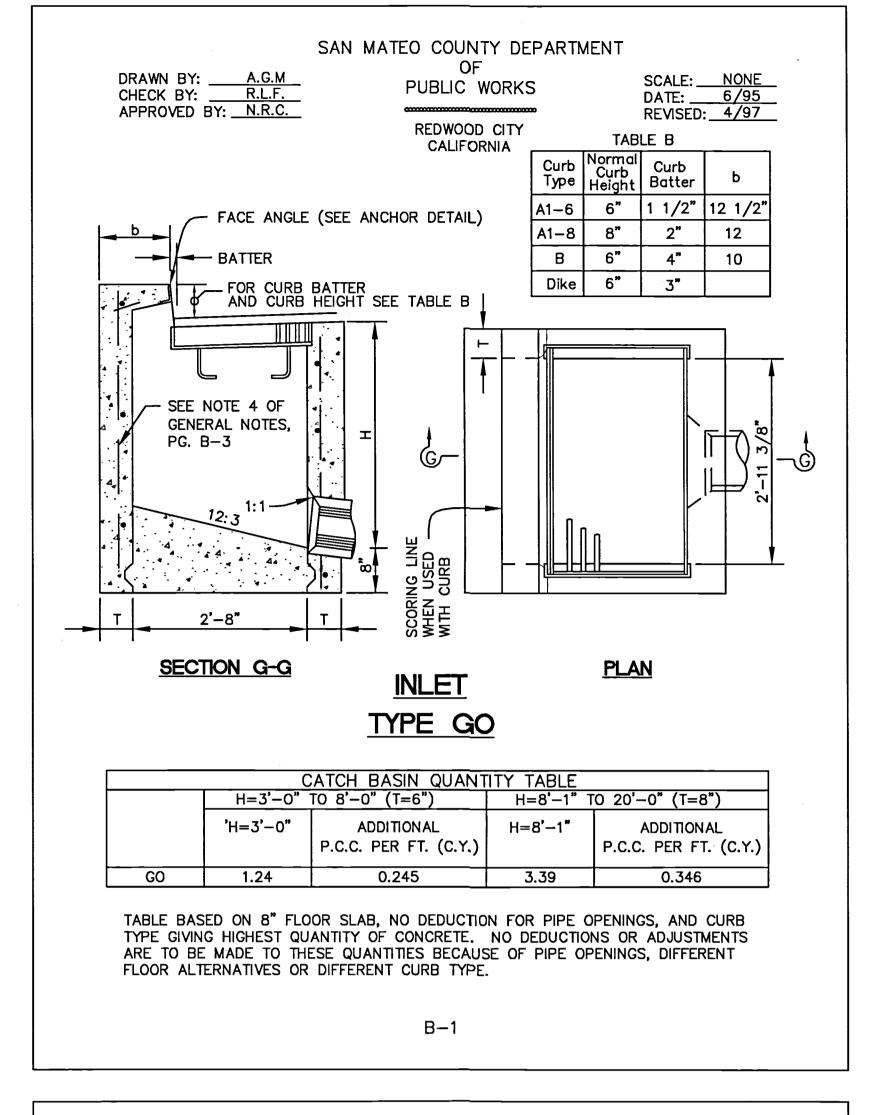


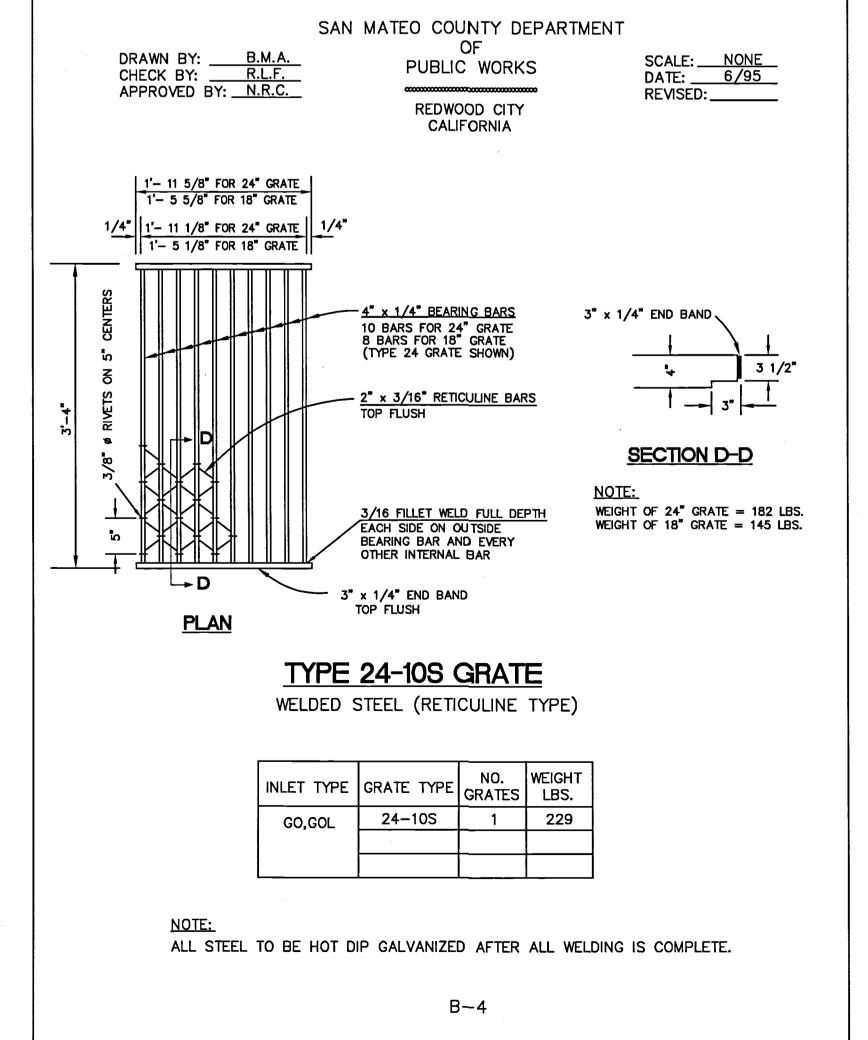
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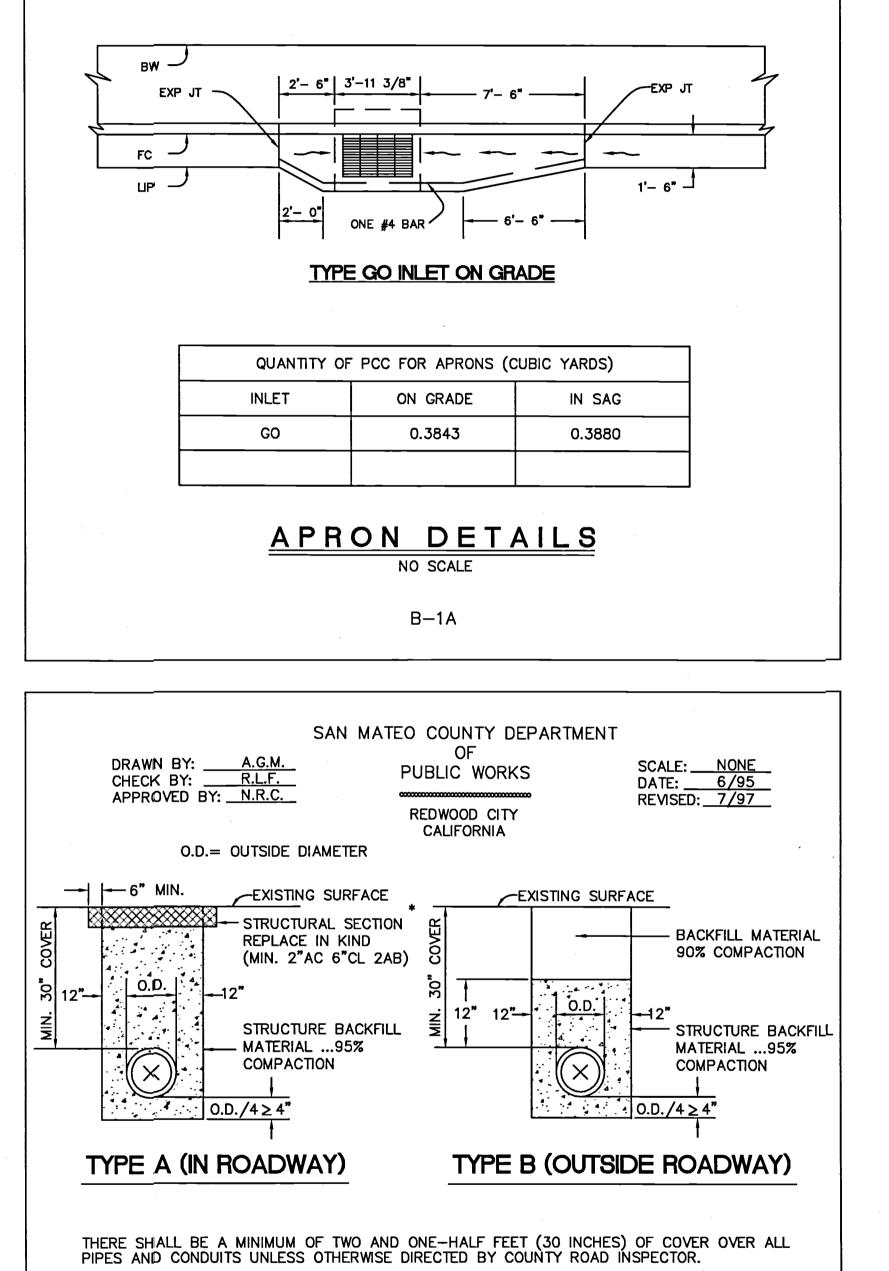
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STATES S DRIVE, CONS HIGHLAND TICONDEROG

C6.10 OF







STRUCTURE BACKFILL MATERIAL...MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND

BACKFILL MATERIAL...MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES IN GREATEST DIMENSION, VEGETABLE MATTER, OR OTHER UNSATISFACTORY MATERIAL.

\*IN AREAS OF CEMENT TREATED BASES, THE REPLACEMENT MATERIAL SHALL CONSIST OF A

FOR TRENCH BACKFILL REQUIREMENTS FOR SANITARY SEWER PIPE, SEE STANDARD DRAWINGS

STANDARD TRENCH BACKFILL

AND BEDDING DETAIL

STORM DRAIN PIPES

B-15

MINIMUM OF 3" OF ASPHALT CONCRETE (TYPE B) OVER A MINIMUM OF 8" OF PORTLAND

% PASSING SIEVES

100

35-100

20-100

SIEVE SIZE

**3**"

NO.4 NO.30

SIEVE GRADATION BY WEIGHT AS FOLLOWS:

CEMENT CONCRETE (CLASS B).

C6 AND C7.

SAN MATEO COUNTY DEPARTMENT

OF

PUBLIC WORKS

REDWOOD CITY

CALIFORNIA

TYPE GO INLET ON SAG

SCALE: NONE DATE: 6/95

REVISED:

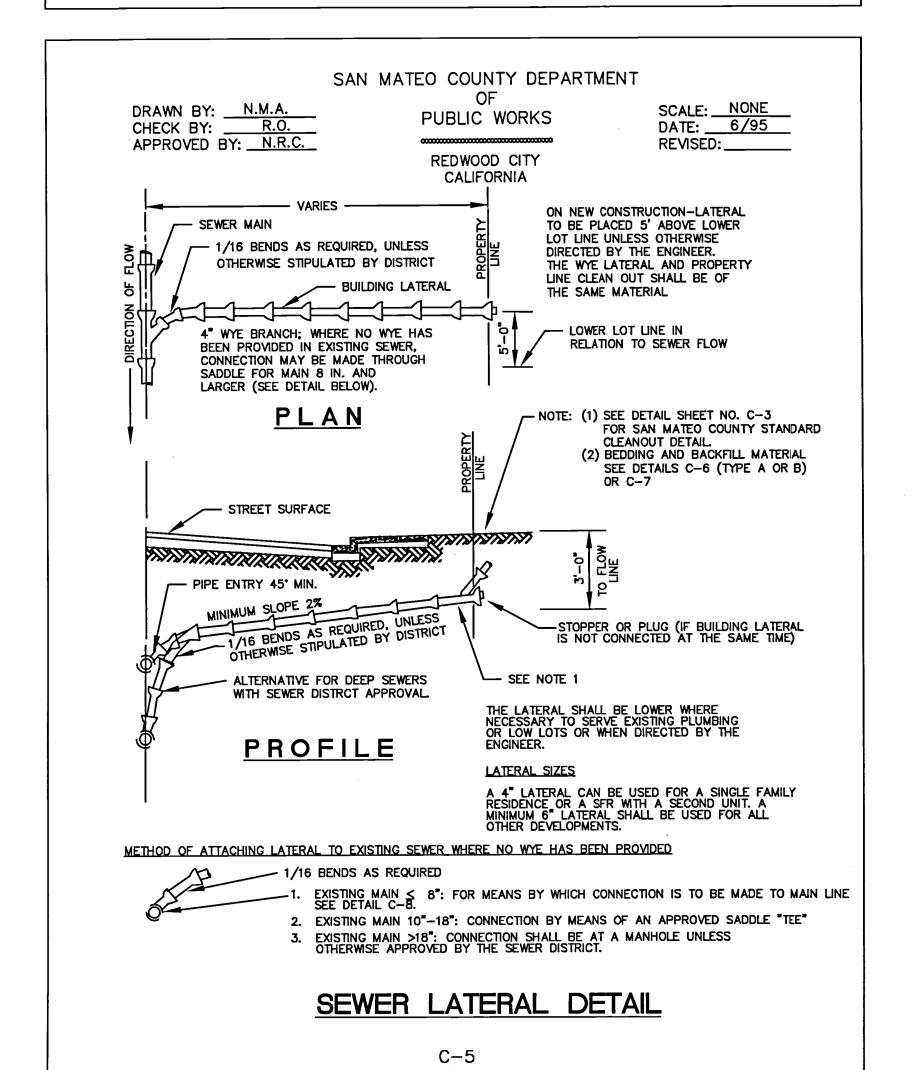
DRAWN BY: A.G.M
CHECK BY: R.L.F.
APPROVED BY: N.R.C.

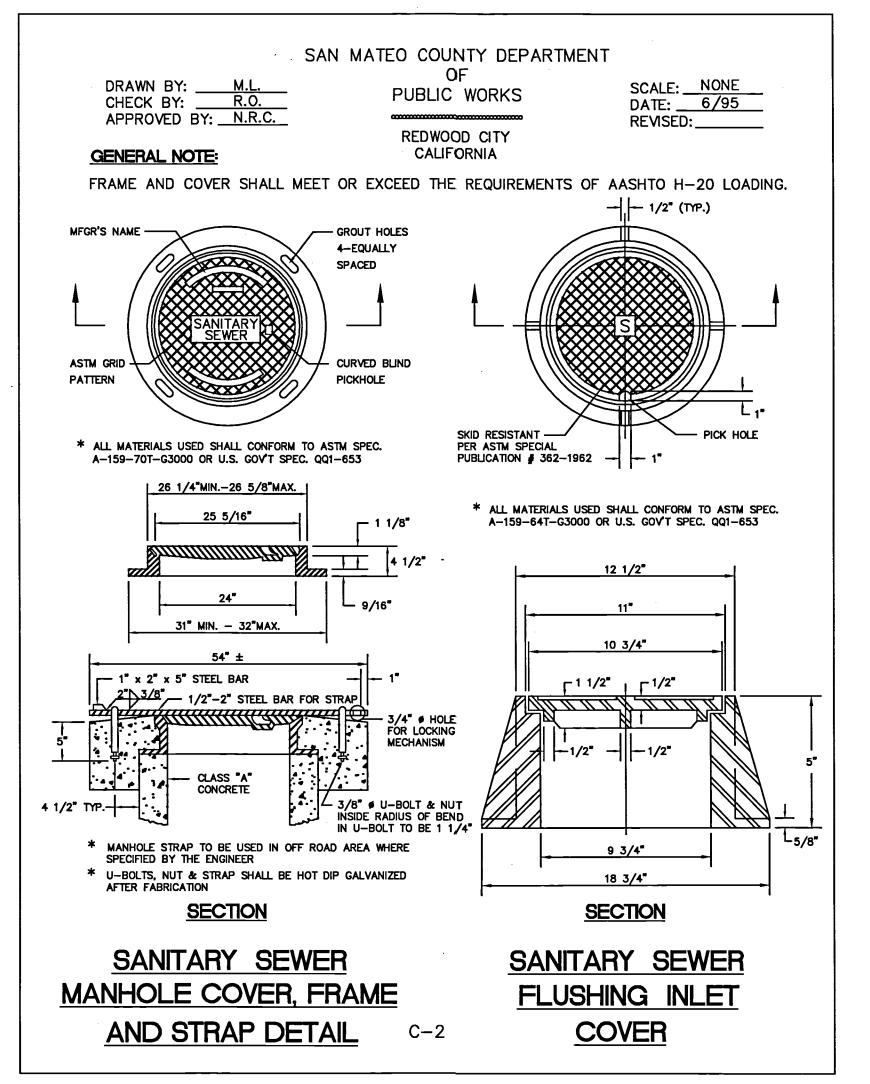
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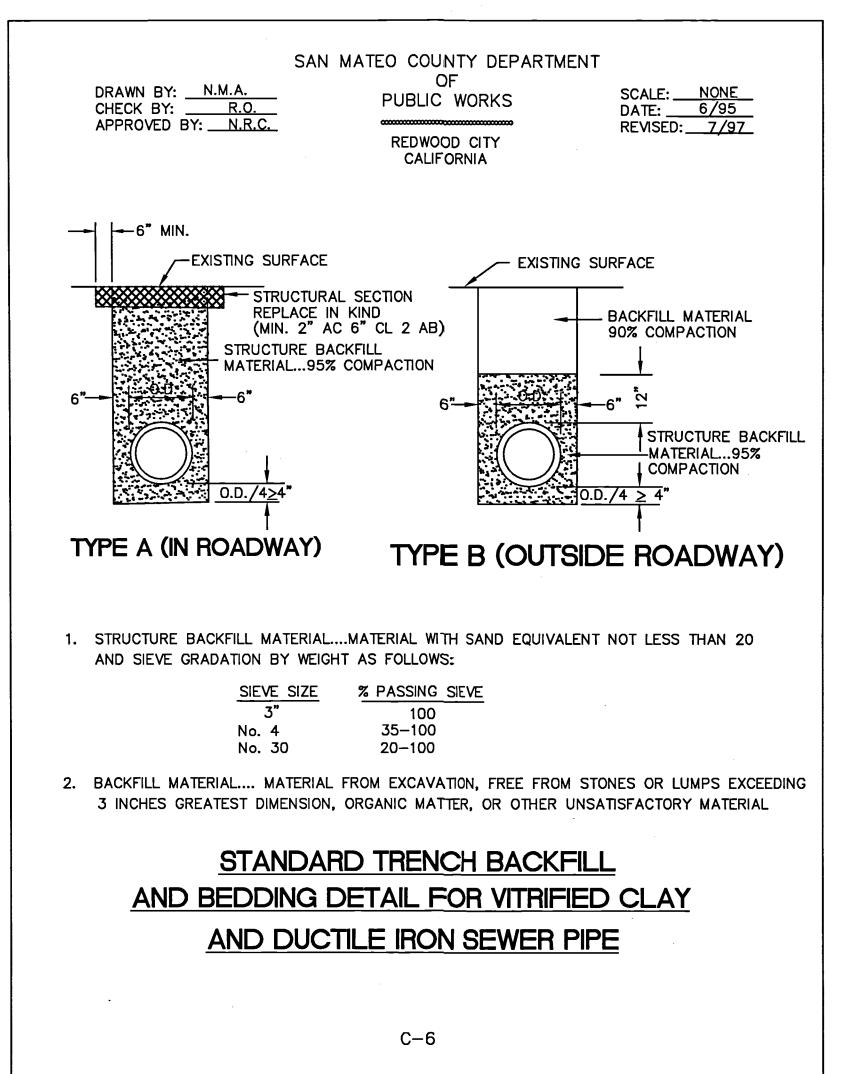
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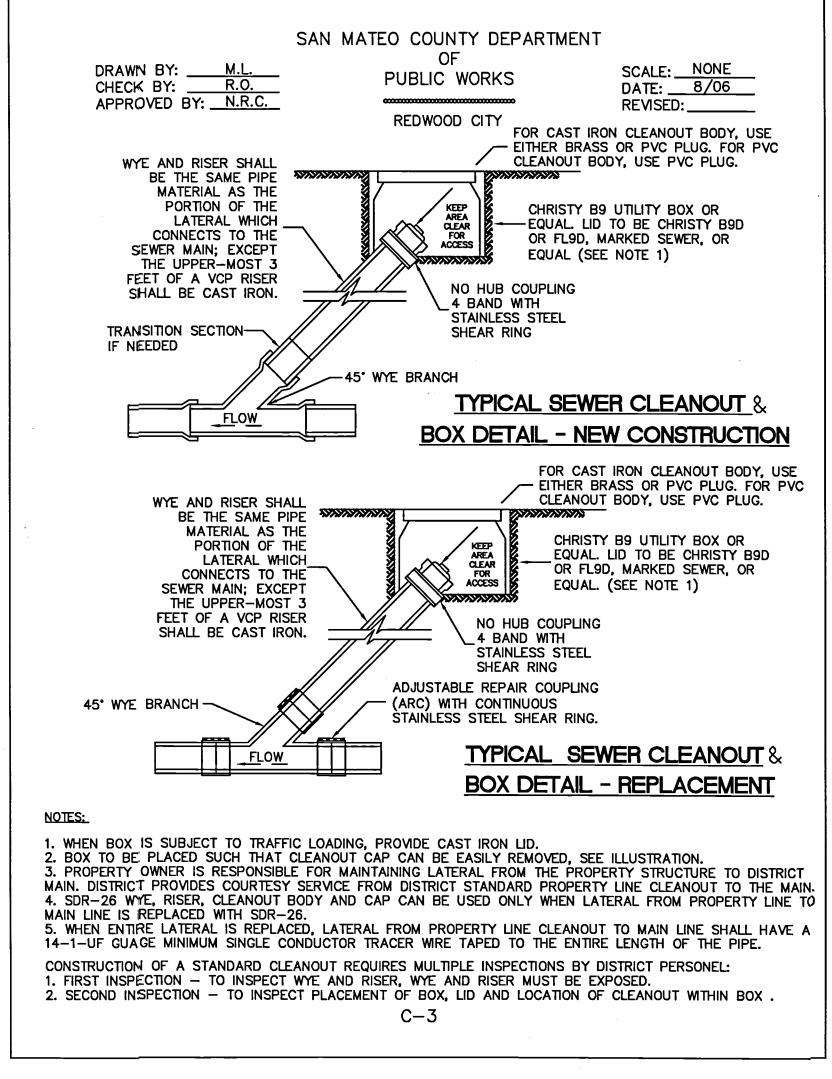
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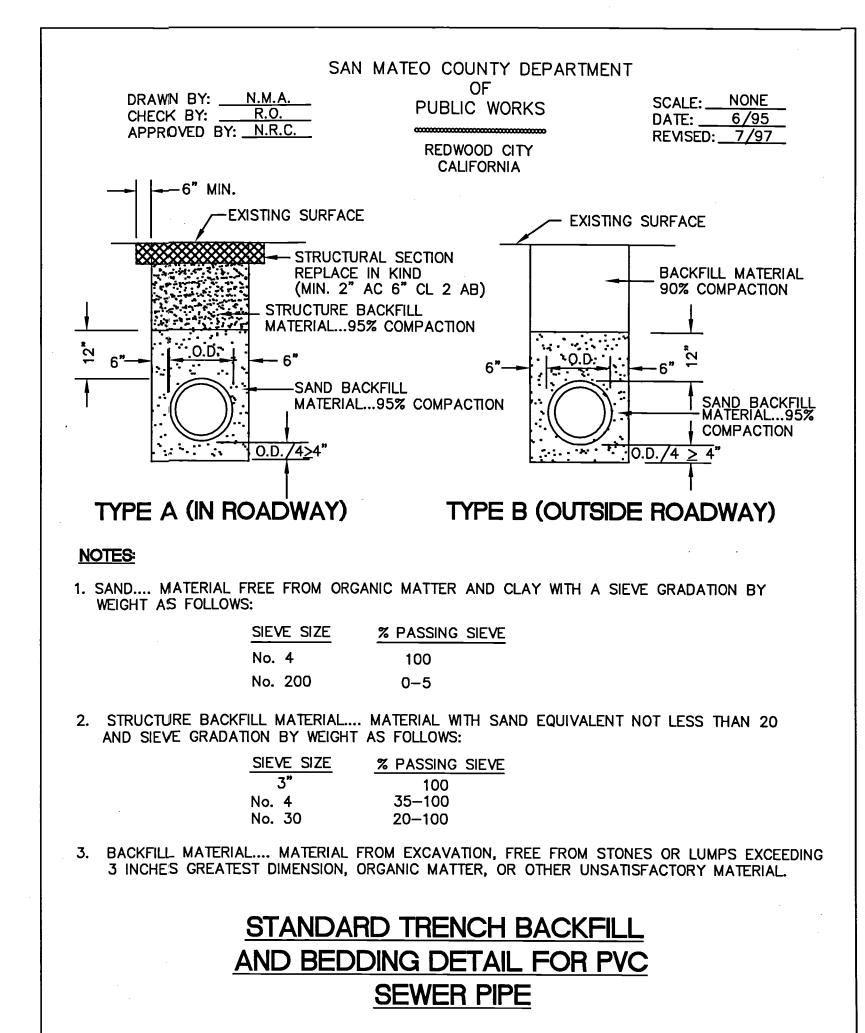
SAN MATEO COUNTY DEPARTMENT SCALE: NONE DRAWN BY: PUBLIC WORKS DATE: 6/95 CHECK BY: APPROVED BY: N.R.C. REVISED: <u>7/97</u> REDWOOD CITY CALIFORNIA CAST IRON PAVEMENT PAVEMENT FRAME AND #4 HOOP -GRADE RING (IF NEEDED) 12" MAX. CLEAN JOINT AND INSTALL UPPER MANHOLE SECTION PREFORMED PLASTIC SEALING ROTATED 180° GASKET PRIOR TO SETTING -NEXT BARREL OR CONE SECTION FORM RECESS IN BASE WITH APPROVED METAL FORMING RING TO RECEIVE PRECAST MANHOLE JOINT. INSTALL PREFORMED PLASTIC SEALING GASKET - BASE SHALL BE POURED TO A BEFORE PLACING FIRST LEVEL AT LEAST 3" ABOVE BARREL OR CONE SECTION THE HIGHEST PIPE PROVIDE A CONCRETE CRADLE FOR PIPES REINFORCED CLASS "A" TO JOINT. CONCRETE BASE -5' - 4" 1. ALL STEEL TO BE 3" CLEAR. 2. LAY PIPE THRU M.H. WHEN POSSIBLE. PROVIDE WYE IN MANHOLE BASE 3. M.H. SHELF SHALL BE MORTARED TO A SLOPE OF 4. THERE SHALL BE NO STEPS IN THE MANHOLE. 5. PREFORMED PLASTIC SEALING GASKET SHALL BE "RAM-NEK" PROVIDE MANUFACTURED ELBOW OR APPROVED EQUAL. FOR CONNECTION TO INCOMING 6. IN THE EVENT PVC OR ABS PIPE WHEN POSSIBLE. CONCRETE PIPES ARE APPROVED, CHANNELIZATION, OTHERWISE AS STANDARD WATER STOPS DIRECTED BY THE ENGINEER. SHALL BE INCORPORATED FOR MODIFY MANHOLE USE INTO THE MANHOLE BASE. MORTAR CHANNELIZATION, AS OPTIONAL-DIRECTED BY THE ENGINEER. 7. OTHER APPLICABLE DETAIL: C-2 8. MANHOLE THROAT LOCATION TO BE SECTION A-A OPPOSITE THE LARGEST SHELF AREA OR AS DIRECTED BY THE SANITARY SEWER MANHOLE DETAIL C-1







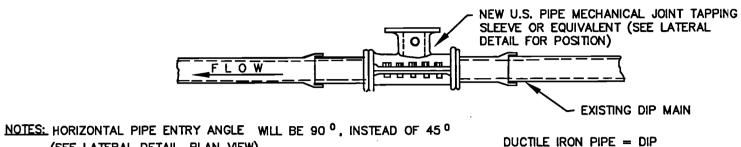




C-7

NOTE: (1) THE NEWLY INSTALLED WYE SHALL BE OF THE SAME MATERIAL AS THE EXISTING MAIN.

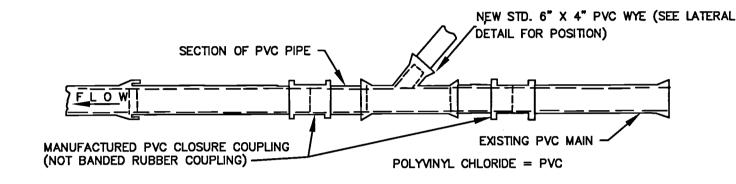
# VITRIFIED CLAY



(SEE LATERAL DETAIL, PLAN VIEW)

VERTICAL PIPE ENTRY ANGLE SHALL BE 45 0 MINIMUM (SEE LATERAL DETAIL PROFILE VIEW)

### PLAN DUCTILE IRON PIPE



NOTE: ALL PVC, PIPE AND FITTINGS SHALL BE SDR 35 35 AND SHALL HAVE RUBBER GASKETED JOINTS. SOLVENT WELDED JOINTS SHALL NOT BE ALLOWED.

### PLAN POLYVINYL CHLORIDE PIPE

### LATERAL CONNECTION INSTALLATION DETAIL ON EXISTING PIPE

NOTE: LATERAL CONNECTION INSTALLATION ON NEWLY INSTALLED PIPE WILL BE AS DIRECTED BY THE DEPARTMENT OF PUBLIC WORKS.

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A.
CHECK BY: R.O.
APPROVED BY: N.R.C.

OF PUBLIC WORKS

SCALE: NONE 6/95

REVISED: \_\_\_\_\_

ROVED BY: N.R.C. REDWOOD CITY
CALIFORNIA

# SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

### PIPE AND FITTINGS

### POLYVINYL CHLORIDE PIPE (PVC)

- 1. ALL PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS D3034, SDR 35.
- 2. ALL JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH ELASTOMERIC SEALING GASKETS. SEALING GASKETS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D1869. SOLVENT CEMENT JOINTS ARE NOT PERMITTED.
- 3. ALL PIPE ENTERING OR LEAVING A CONCRETE STRUCTURE SHALL HAVE A RUBBER WATERSTOP GASKET ATTACHED TO IT. THE WATERSTOP GASKET SHALL CONFORM TO THE PIPE MANUFACTURER'S SPECIFICATIONS. THE WATERSTOP GASKET SHALL BE SEATED FIRMLY AROUND THE PIPE EXTERIOR AND BE CAST INTO THE CONCRETE STRUCTURE.
- 4. ALL PIPE JOINTS SHALL BE MADE USING MANUFACTURED PVC COUPLINGS. BAND TYPE COMPRESSION COUPLINGS ARE NOT PERMITTED.

## DUCTILE IRON PIPE (DIP)

- 1. ALL PIPE SHALL BE THICKNESS CLASS 50 (FOUR INCH PIPE SHALL BE THICKNESS CLASS 51) IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.51. FITTINGS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATION A21.10.
- 2. JOINTS SHALL BE PUSH-ON TYPE OR MECHANICAL JOINT TYPE IN ACCORDANCE WITH ANSI SPECIFICATION A21.11. RUBBER GASKETS FOR PUSH-ON JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS HEREIN.
- 3. PIPE AND FITTINGS SHALL HAVE A BITUMINOUS COATING OUTSIDE IN ACCORDANCE WITH ASTM SPECIFICATION A746-86, UNLESS OTHERWISE SPECIFIED HEREIN.
- 4. PIPE AND FITTINGS SHALL HAVE A 1/16" (ONE-SIXTEENTH INCH) CEMENT-MORTAR LINING WITH AN ASPHALTIC SEAL COAT.

## VITRIFIED CLAY PIPE (VCP)

- 1. PIPE AND FITTINGS SHALL BE EXTRA STRENGTH, UNGLAZED, BELL AND SPIGOT, CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C700.
- 2. JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH FACTORY INSTALLED FLEXIBLE COMPRESSSION TYPE GASKETS MADE OF PLASTICIZED POLYMNYL OR POLYURETHANE CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATIONS C425. BAND TYPE COUPLINGS ARE NOT ALLOW.

C-14

### SAN MATEO COUNTY DEPARTMENT SCALE: NONE DRAWN BY: N.M.A. CHECK BY: R.O. PUBLIC WORKS DATE: \_\_\_6/95 APPROVED BY: N.R.C. REVISED:\_ REDWOOD CITY ALUMINUM CONE FLOOR LEVEL UPSTREAM BACKWATER STRUCTURE -OVERFLOW SURFACE DEVICE **REMOVE STANDARD -**→ 3" OR 3-1/2" N.P.T. CLEANOUT PLUG OR PLAIN END FINISH GRADE TO BUILDING OVERFLOW DEVICE NOTE: LOCATION OF DEVICE TO APPROVAL OF DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION VALVE OPENS TO A ALLOW WASTE WATER TO FLOW INTO SEWER MAIN; VALVE CLOSES BY ITS OWN WEIGHT TO PREVENT WASTEWATER FROM FLOWING BACK TO HOUSE LATERAL. TO SEWER MAIN NOTE: LOCATION OF DEVICE TO APPROVAL OF HOUSE DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION BACKFLOW DEVICE OVERFLOW AND BACKFLOW DEVICE DETAIL

SAN MATEO COUNTY DEPARTMENT

C-9

DRAWN BY: N.M.A.

CHECK BY: R.O.

APPROVED BY: N.R.C.

PUBLIC WORKS
REDWOOD CITY

CALIFORNIA

SCALE: NONE
DATE: 6/95
REVISED: 7/97

# SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

## TESTING REQUIREMENTS

- 1. ALL REFERENCES TO "DISTRICT" IN THESE TESTING REQUIREMENTS SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- 2. ALL REQUIRED CLEANING AND TESTING OF SANITARY SEWER MAINS AND LATERALS SHALL BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE DISTRICT.
- 3. ALL SANITARY SEWER MAINS BEING CONSTRUCTED SHALL BE CLEANED BY MEANS OF A HIGH SPEED JET RODDER PRIOR TO TESTING. VCP AND DIP SHALL BE TESTED FOR OBSTRUCTION BY BALL ROLLING.
- 4. ALL SANITARY SEWER MAINS BEING CONSTRUCTED SHALL PASS A LOW PRESSURE AIR TEST. EACH SECTION OF MAIN SHALL BE TESTED BETWEEN SUCCESSIVE MANHOLES. THE LOW PRESSURE AIR TEST SHALL BE CONDUCTED IN THE FOLLOWING MANNER.

A COMPRESSED AIR SUPPLY SHALL BE ATTACHED TO AN AIR FITTING ON THE MAIN AND THE AIR PRESSURE WITHIN THE LINE INCREASED TO FOUR (4) POUNDS PER SQUARE INCH. (PSI). AFTER THE AIR SUPPLY IS SECURELY TURNED OFF OR DISCONNECTED, THERE SHALL BE A TWO (2) MINUTE WAITING PERIOD BEFORE THE ACTUAL TEST PERIOD BEGINS TO ALLOW STABILIZATION OF AIR WITHIN THE MAIN.

IN NO CASE SHALL THE AIR PRESSURE WITHIN THE LINE BE LESS THAN 3.5 PSI AT THE BEGINNING OF THE TEST PERIOD. REFER TO THE CHART WHICH FOLLOWS FOR THE LENGTH OF THE TEST PERIOD. THE MINIMUM LENGTH OF TEST IS TWO (2) MINUTES). THE ALLOWABLE AIR PRESSURE LOSS DURING THE TEST PERIOD SHALL BE 1.0 PSI. A WRITTEN RECORD OF THE TEST SHALL BE SUBMITTED TO THE DISTRICT BY THE CONTRACTOR.

NOMINAL PIPE S (inches)	SIZE LENGTH OF LINE (feet)	E LENGTH OF TEST (minutes)
4 6 6 8 8 8 8 8 10 10 10	ALL 0 - 300 300 - 370 370 AND GREATER 0 - 170 170 - 210 210 - 250 250 - 290 290 AND GREATER 0 - 110 110 - 165 165 - 215 215 AND GREATER	2 2 1/2 3 3 1/2 3 3/4 2 3 4
	C-15	

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: \_\_\_\_\_M.L.
CHECK BY: \_\_\_\_R.O.
APPROVED BY: \_\_\_N.R.C.

PUBLIC WORKS

REDWOOD CITY

SCALE: NONE
DATE: 8/06
REVISED: \_\_\_\_

# SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

### GENERAL NOTES

- 1. ALL REFERENCES TO "DISTRICT" IN THESE GENERAL NOTES SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- 2. THE APPROVAL OF THESE PLANS BY THE DISTRICT SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEETS THE DISTRICT'S STANDARDS. THE DISTRICT'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- 3. THE CONTRACTOR SHALL CONTACT THE DISTRICT AT 363-4765 OR 363-4100 TWO (2) WOKING DAYS IN ADVANCE OF BEGINNING ANY SANITARY SEWER WORK. THE CONTRACTOR SHALL THEREAFTER KEEP THE INSPECTOR FOR THE DISTRICT INFORMED OF HIS SCHEDULE FOR SANITARY SEWER WORK.
- 4. ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE DISTRICT SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- 5. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FORTY—EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY WORK.
- 6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING ANY EXCAVATING.
- 7. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE COUNTY OR CITY BEFORE BEGINNING ANY SANITARY SEWER WORK.
- 8. UPON THE COMPLETION OF CONSTRUCTION A COMPLETE SET OF REPRODUCIBLE "AS-CONSTRUCTED" PLANS SHALL BE PROVIDED TO THE DISTRICT.
- SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS ARE NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.
- 10. PRIOR TO COMMENCING ANY SANITARY SEWER WORK IN OFF-SITE EASEMENTS THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH ADEQUATE EVIDENCE THAT ALL AFFECTED PROPERTY OWNERS (AND TENANTS WHERE APPLICABLE) WERE NOTIFIED WELL IN ADVANCE OF THE DATE WORK IN THESE EASEMENTS WAS TO BEGIN AND THAT THEY HAVE UPDATED THAT NOTICE IN A TIMELY MANNER WHEN THOSE DATES HAVE CHANGED.

C-13

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A. CHECK BY: R.O. APPROVED BY: N.R.C.

OF PUBLIC WORKS

REDWOOD CITY

CALIFORNIA

SCALE: NONE
DATE: 6/95
REVISED: 7/97

5. A TELEVISION INSPECTION SHALL BE MADE OF ALL SANITARY SEWER MAINS BEING CONSTRUCTED. IMMEDIATELY PRIOR TO TELEVISING THE SEWER, AN AMOUNT OF WATER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE SHALL BE INTRODUCED INTO THE SEWER MAIN BEING INSPECTED.

A VIDEO TAPE IN VHS FORMAT AT SP, OR EQUIVALENT, SPEED SHALL BE MADE OF THE INSPECTION AND DELIVERED ALONG WITH A TYPED LOG OF THE INSPECTION TO THE DISTRICT (SAN MATEO COUNTY DEPARTMENT OF PUBLIC WORKS) FOR REVIEW AND ACCEPTANCE.

SUBMITTED VIDEO TAPES SHALL INCLUDE A CONTINUOUS ON—SCREEN DISPLAY WHICH CONTAINS, AS A MINIMUM, THE DATE OF THE FILMING, IDENTIFICATION OF THE LINE AND SEGMENT (REACH) OF THE LINE BEING VIEWED, AND A READOUT, IN FEET, SHOWING THE DISTANCE TO THE ENTRY POINT.

IF, IN THE OPINION OF THE DISTRICT, THE SUBMITTED VIDEO TAPES ARE OF POOR QUALITY, THE DISTRICT MAY REJECT THE VIDEO TAPES AND REQUIRE THE VIDEO INSPECTION TO BE REPEATED AND NEW VIDEO TAPES SUBMITTED TO THE DISTRICT FOR REVIEW AND ACCEPTANCE. ALL VIDEO TAPES SHALL BECOME THE PROPERTY OF THE DISTRICT.

6. DEFLECTION TESTING OF POLYVINYL CHLORIDE (PVC) SEWER MAINS SHALL BE PERFORMED AFTER THE PLACEMENT OF ALL TRENCH BACKFILL. PIPE DEFLECTION SHALL BE TESTED BY PULLING BY HAND A GO/NO-GO MANDREL THROUGH THE INSTALLED SECTIONS OF SEWER MAIN.

THE MANDREL USED SHALL HAVE A MINIMUM LENGTH EQUAL TO ITS DIAMETER. THE MANDREL SHALL BE CONSTRUCTED WITH A MINIMUM OF NINE (9) RIBS FABRICATED PARALLEL TO ITS LONGITUDINAL AXIS. BOTH THE DESIGN OF THE MANDREL AND THE FABRICATED MANDREL ITSELF SHALL BE INSPECTED AND APPROVED BY THE DISTRICT WELL IN ADVANCE OF THE DEFLECTION TEST.

THE MANDREL DIAMETER SHALL BE 95% OF THE PIPE'S AVERAGE INSIDE DIAMETER AS DEFINED BY ASTM SPECIFICATION D3034, AND AS DETAILED IN THE FOLLOWING TABLE:

NOMINAL PIPE SIZE (inches)	AVERAGE INSIDE DIAMETER (inches)	MINIMUM MANDREL DIAMETER (inches)
6	5.893	5.598
8	7.891	7.497
10	9.864	9.371

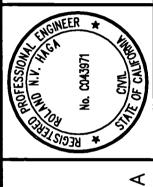
NOTE: AVERAGE INSIDE DIAMETER = AVERAGE OUTSIDE DIAMETER - 2(1.06)T; WHERE T = MINIMUM WALL THICKNESS AS DEFINED BY ASTM SPECIFICATION D3034.

C-16

255 SHORELINE DRIVE, SUITE 20 REDWOOD CITY, CA 94065 PHONE: (650) 482-6300 FAX: (650) 482-6399







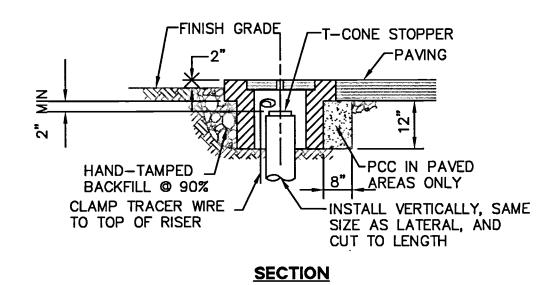
HIGHLAND ESTATES – STREET IMPROVEMENT PLANS
TICONDEROGA DRIVE, COBBLEHILL PLACE & COWPENS WA
CONSTRUCTION DETAILS
CALIFOR SAN MATEO COUNTY

Revisions

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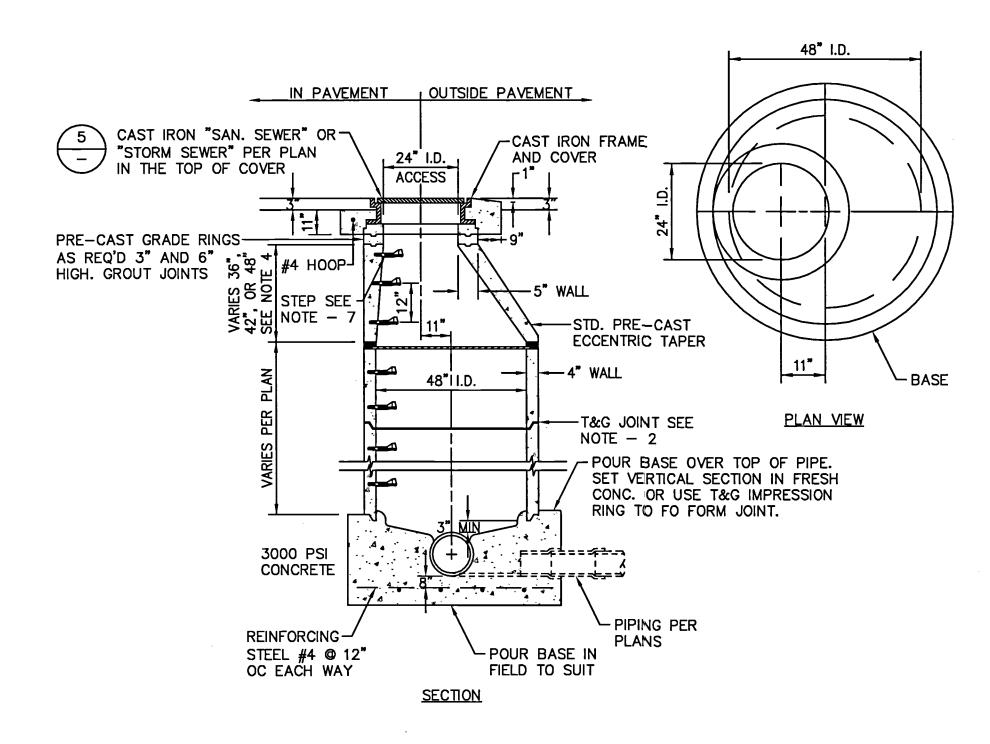
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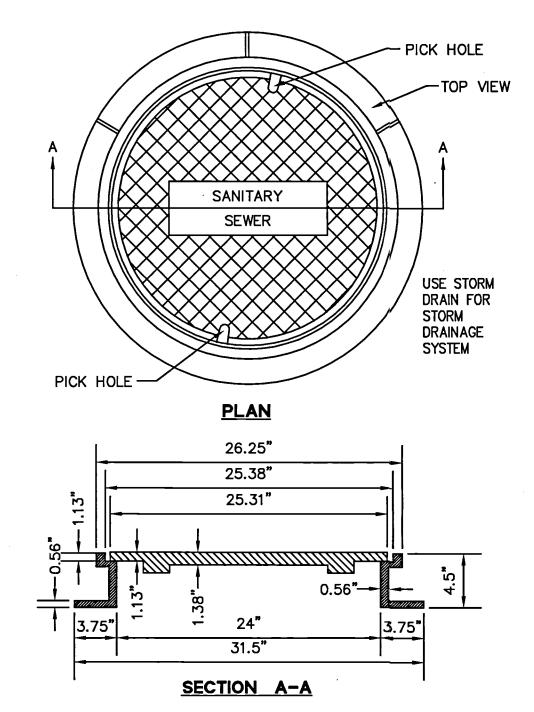
- 1. BOX TO BE H-20 RATED.
- 2. CHRISTY CONCRETE TYPE G5 METER BOX WITH G05C LID, MARKED "STORM", OR APPROVED EQUIVALENT.
- 3. TAPE TRACER WIRE AT 3' INTERVAL WITH FILAMENT TAPE.

**CLEANOUT BOX** NTS

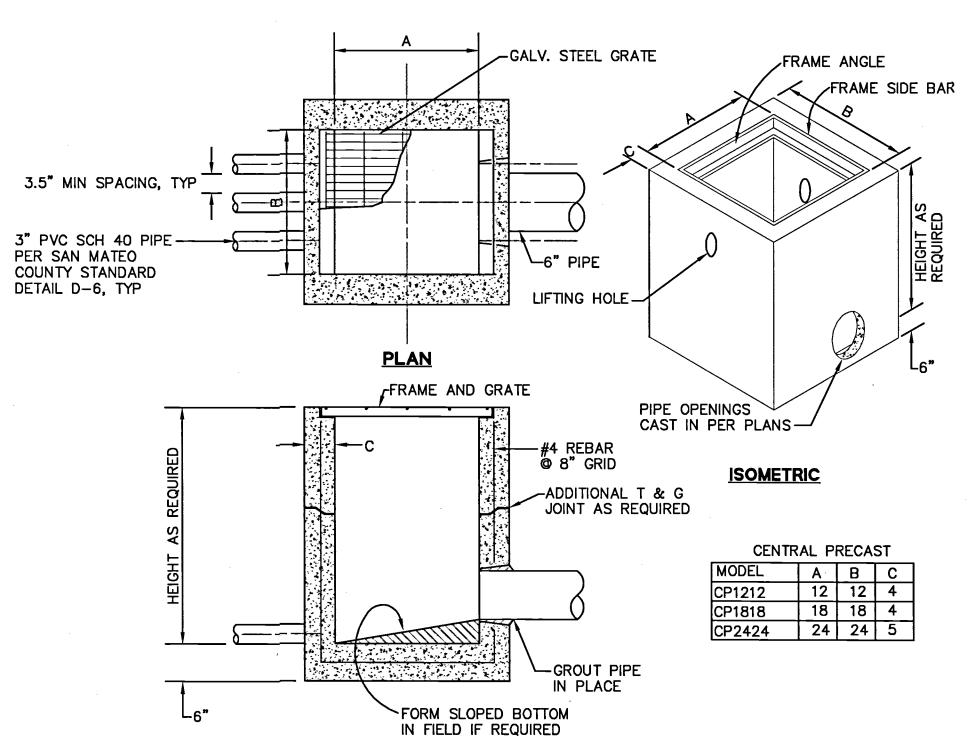


- 1. PRE-CAST MANHOLE MATERIAL SHALL BE MANUFACTURED TO ASTM SPECIFICATION C478.
- 2. GROUT JOINTS WITH 1:3 MORTAR MIX OR USE RAM-NEK JOINT COMPOUND.
- 3. A 36" TAPER MAY BE COMBINED WITH A 12" VERTICAL TO FORM A 48" TAPER SECTION.
- 4. ALL CONCRETE JOINTS SHALL BE LEANED, WETTED, AND MORTARED PRIOR TO SETTING THE NEXT SECTION. THE JOINTS SHALL BE PACKED, TOWELLED AND BRUSHED WHILE THE MORTAR IS PLASTIC.
- 5. MANHOLE SHALL BE SET TO GRADE SUBSEQUENT TO PLACING AC OR RCC.
- 6. XYPEX CONCENTRATE/CRYSTALLINE COATING ON INTERIOR CONCRETE SURFACES.
- 7. STEPS NOT REQUIRED IN MANHOLES 3.5 FEET OR LESS IN DEPTH.

MANHOLE (PIPES 6" TO 21") NTS



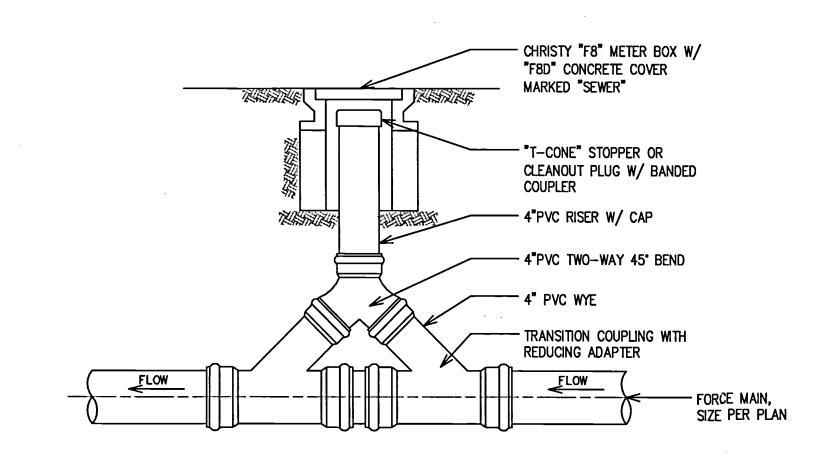
- 1. ALL MATERIAL USED IN MANUFACTURING SHALL CONFORM TO A.S.T.M. A48, CLASS 30. 2. ALL CASTINGS TO BE COMPLETELY CLEANED AND PAINTED WITH ASPHALTIC VARNISH, AFTER
- MANUFACTURE. 3. USE PHOENIX P-1090, D&L SUPPLY A-1024, OR EQUAL.
- MANHOLE FRAME AND COVER NTS



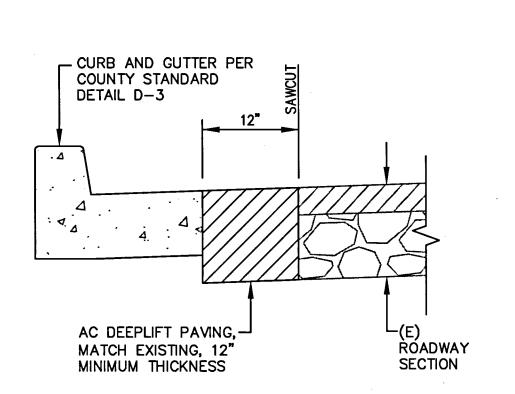
## TYPICAL SECTION

- DROP INLETS SHALL BE CENTRAL PRECAST OR APPROVED EQUAL. AN ENGINEERED PRECAST DROP INLET UNIT CAN BE USED AS AN ALTERNATE.
- SEE PLAN FOR DROP INLET SIZE AND LOCATION.

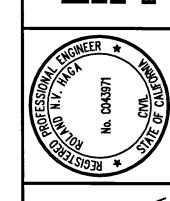
DROP INLET DETAIL NTS



SANITARY SEWER FORCE MAIN CLEANOUT DETAIL



SAWCUT AND AC DEEPLIFT DETAIL NTS

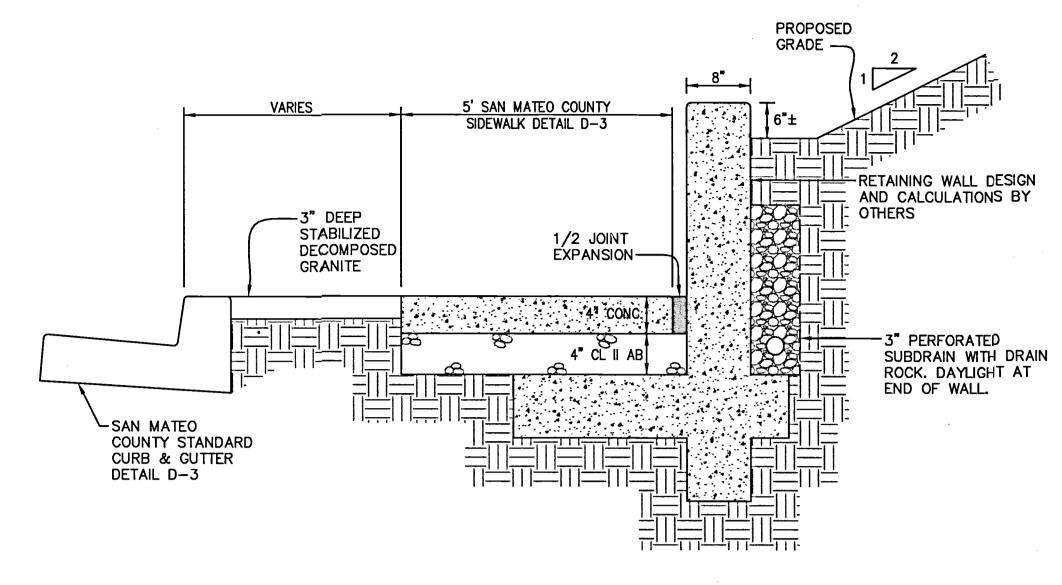


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Sheet Number:

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SIDEWALK RETAINING WALL

NTS

HIGHLAND ESTATES – STREET IMPROVEMENT PLANS

TICONDEROGA DRIVE, COBBLEHILL PLACE & COWPENS WAY

CONSTRUCTION DETAILS

CALIFORNIA

CALIFORNIA

CALIFORNIA

FIGURERS

FIGURERS

FIGURERS

CALIFORNIA

FIGURERS

FIGURERS

FIGURERS

FIGURERS

FIGURERS

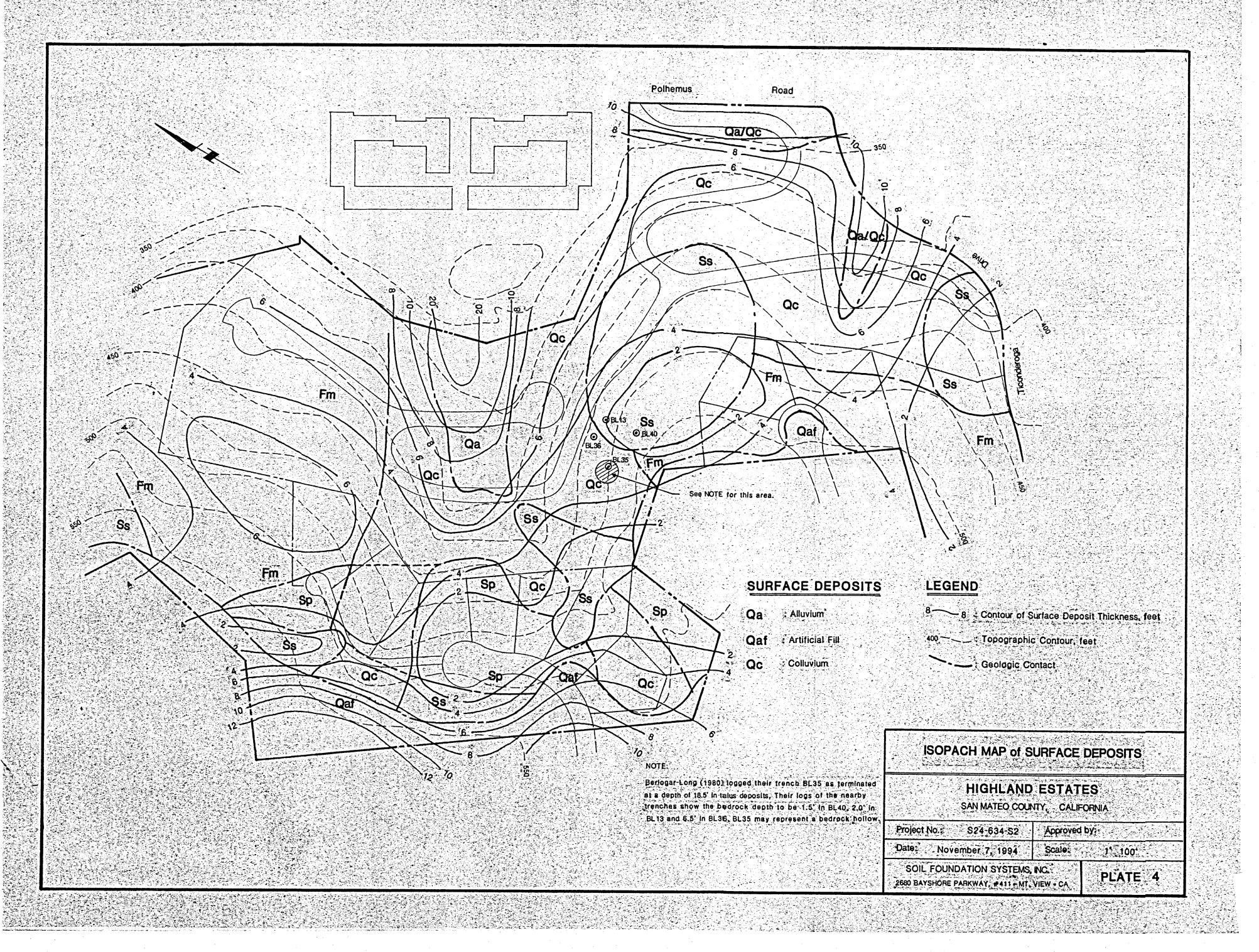
FIGURERS

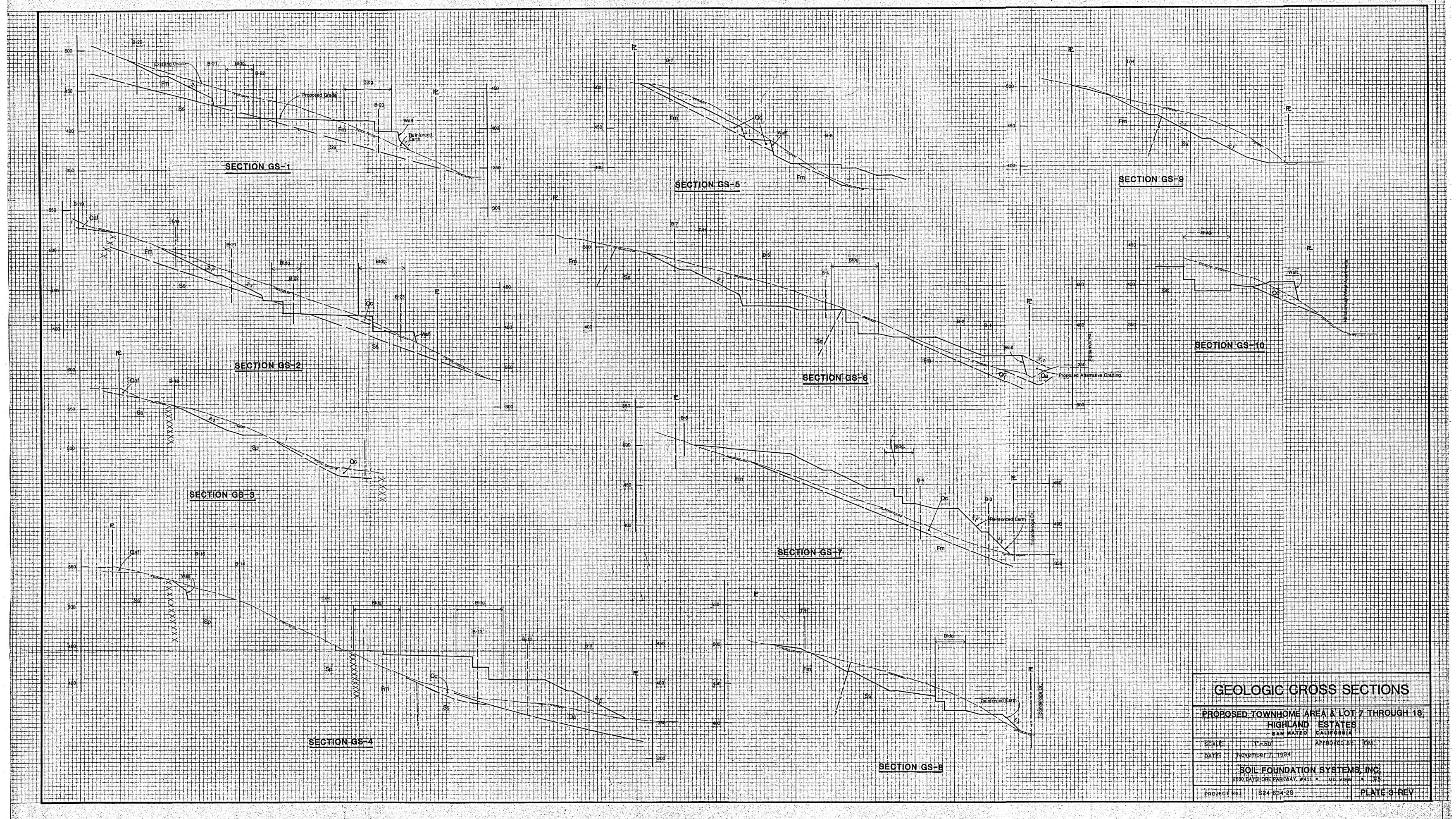
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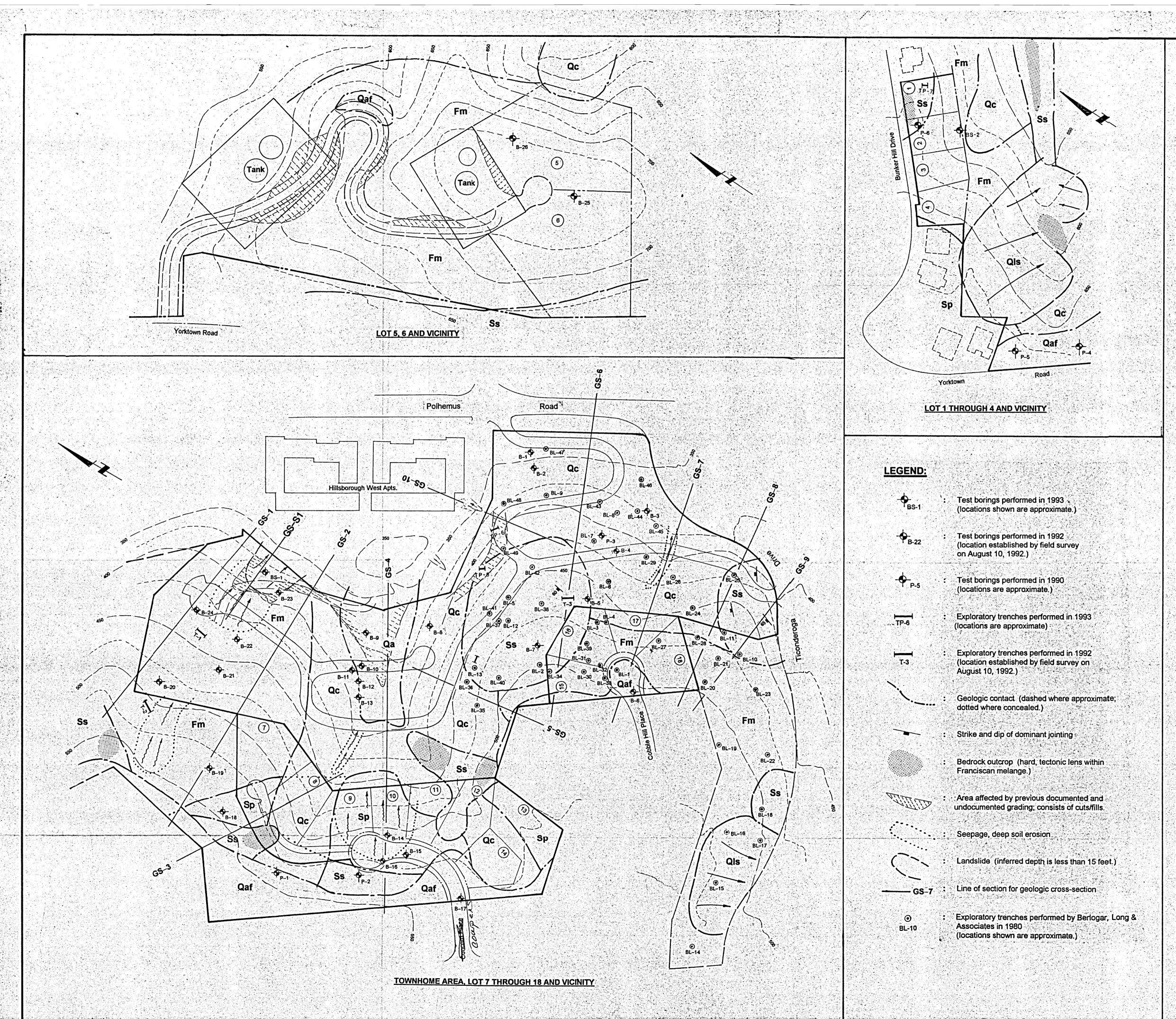
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Approved RH
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(3)







### **EXPLANATION**

Artificial Fill. Deposits of rock and soil placed by man upon the natural surfaces. Most fill on the perimeter of the site, above the proposed townhome area, and appears to have been placed for engineering purposes associated with grading for the adjacent neighborhood. Boulders (chiefly graywacke and serpentine) that were too large to incorporate in the fill were dumped on the Highland Estates site.

Within the interior of the project site, there is evidence of land disturbance that includes placement of sliver fills and construction of rough-graded roads and small pads. This work was done at the time of site grading for the Hillsborough West Apartments project in the early 1960's.

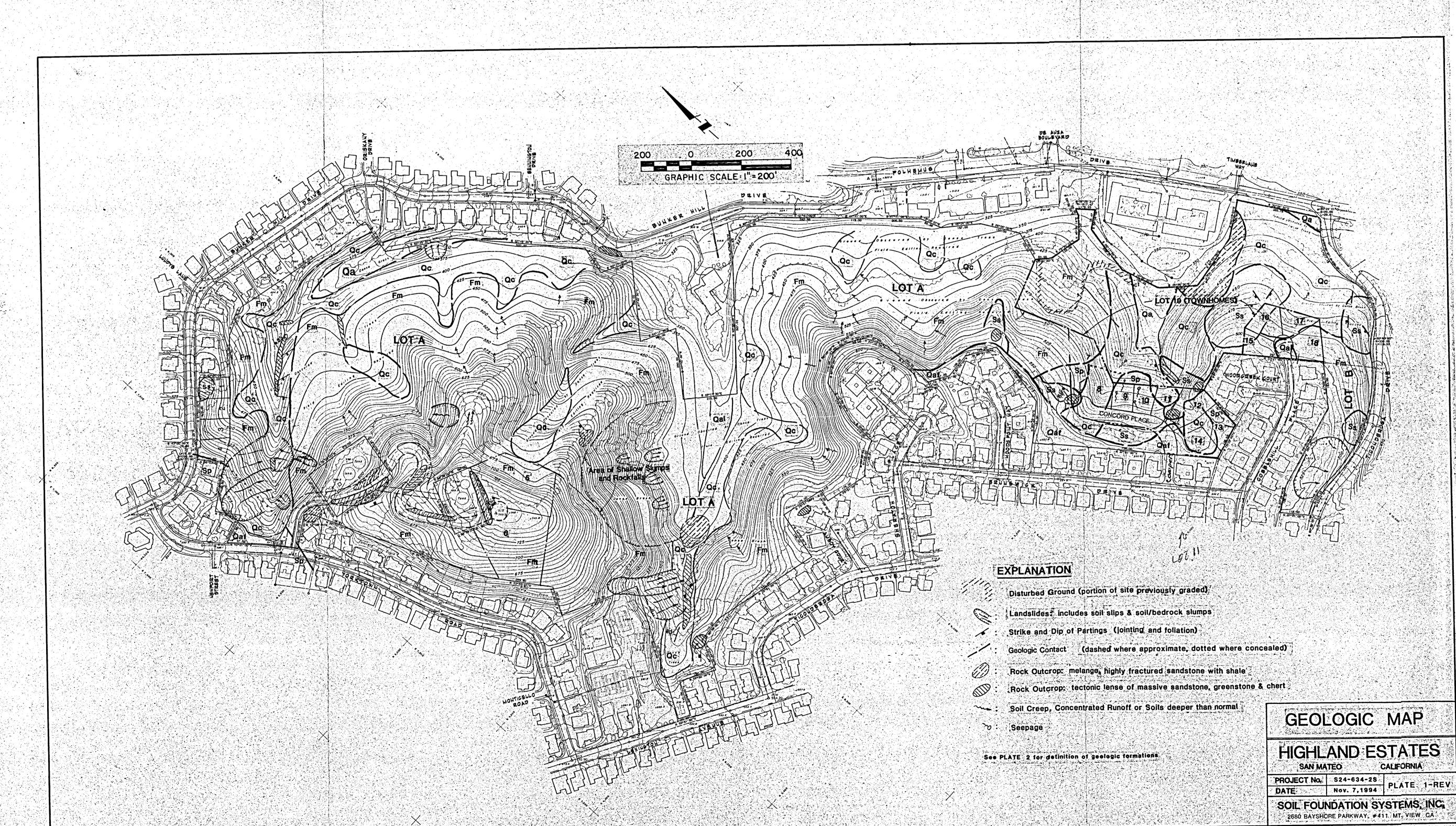
- Alluvium. Unconsolidated stream channel deposits, which occur on the floor of the main. drainage swale on-site.
- Colluvium. Unconsolidated and unsorted soil material and weathered rock fragments. accumulated on or at the base of slopes by natural gravitational or slope wash processes. Derived by weathering and decomposition of materials underlying the slopes. Covers most of the slopes, but mapped only where inferred thickness is five feet or greater. These deposits include the "talus" mapped by Berlogar, Long and Associates (1980). Subject to active mass wasting (soil creep and sloughing).
- Landslide Deposits.
- Franciscan Melange. A tectonic mixture consisting of small to large masses of resistant rock types, principally graywacke sandstone, greenstone, chert and serpentine, embedded in a matrix of pervasively sheared or pulverized rock material. The melange represents the products of one or more immense collisions of two major plates of the earth's crust, which occurred during late Mesozoic time. The various rock types along the subduction zone were sheared, crushed and mixed in such a way that fragments of harder rocks were detached, disoriented and brought into chaotic juxtaposition. It is these resistant masses or fragments that can be seen as outcrops on the Highland Estates site. Two lithological units of large masses within the sheared melange matrix are identified separately by lithological symbols as Ss and Sp. The symbol Fm is used on the geologic map to represent the masses consisting of rock types other than Ss or
  - Ss: Sandstone. Mainly fine- to medium-grained graywacke sandstone which is very hard and massive. Also includes some masses of a more arkosic sandstone that weathers to a yellowish brown color and appears to have tiny flakes.
  - Sp: <u>Serpentine</u>. Pale green to dark green fine-grained metamorphic rocks; composed almost entirely of magnesium silicate materials, derived by metamorphism and alteration of peridotite and other basic igneous rocks. In this area the serpentine is highly fractured. It occurs as tiny to large lenses and irregularly-shaped, sheet-like masses.

## SITE GEOLOGIC MAP

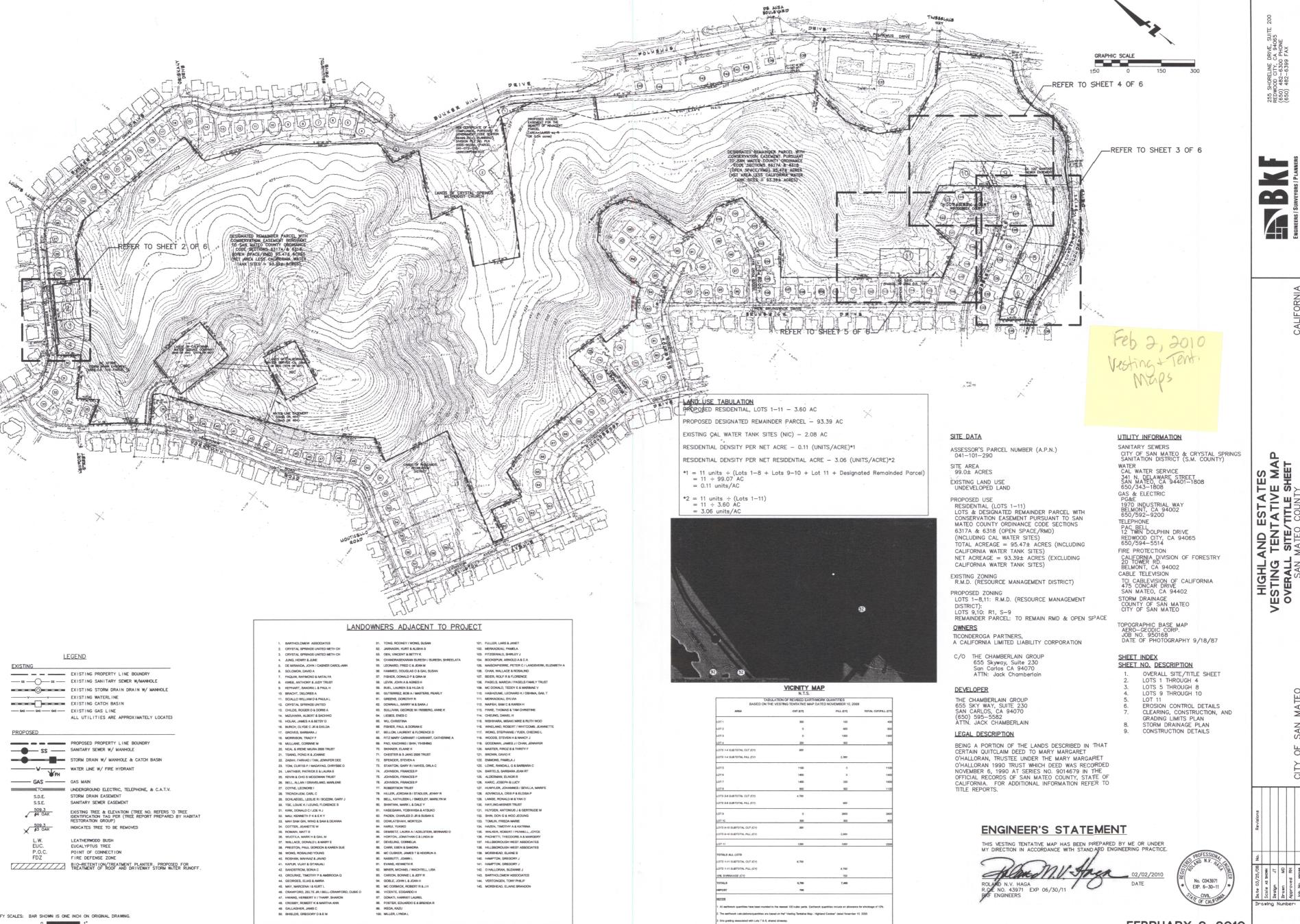
PROPOSED DEVELOPMENT AREAS HIGHLAND ESTATES SAN MATEO COUNTY CALIFORNIA

SCALE: 1" = 100" DATE November 7, 1994

SOIL FOUNDATION SYSTEMS, INC.



Nov. 7, 1992 Geologichap Plate 1 Soil Foundation



Site grading associated with Lots 7 & 8, shared driveway

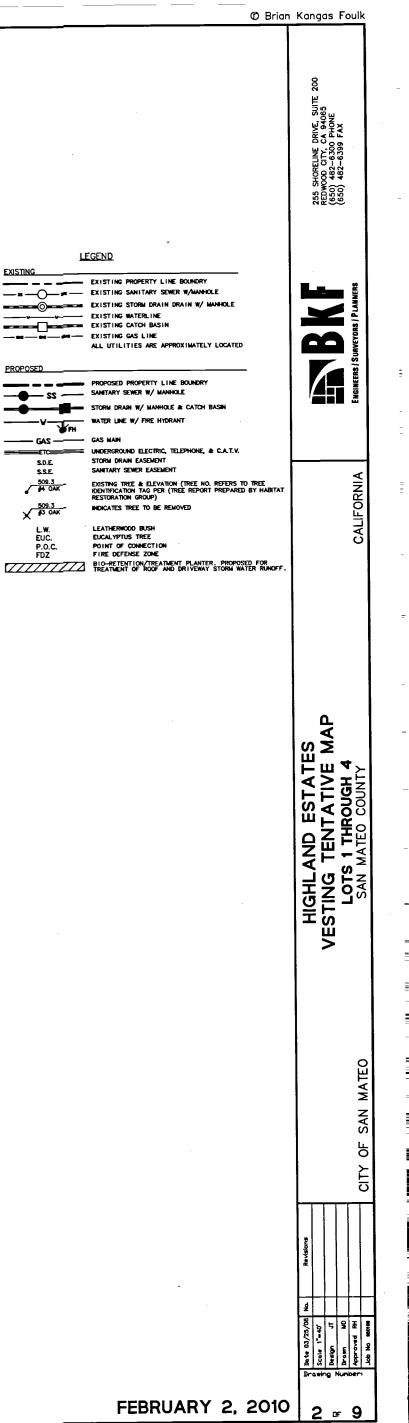
4. Site grading associated with Lots 9 & 10, shared driveway.

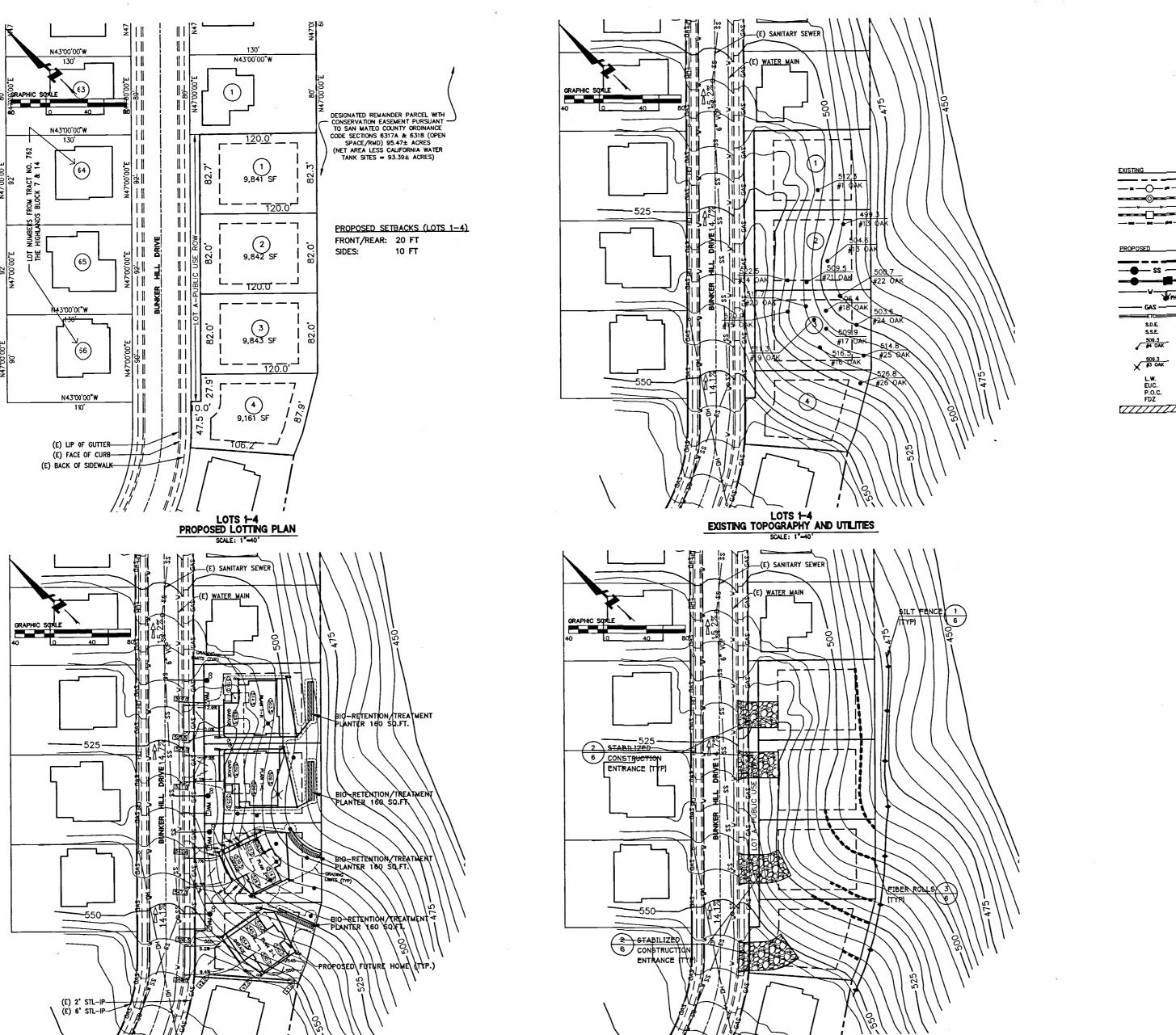
VERIFY SCALES: BAR SHOWN IS ONE INCH ON ORIGINAL DRAWING.

F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

DF 9

FEBRUARY 2, 2010





LOTS 1-4
PRELIMINARLY EROSION CONTROL PLAN

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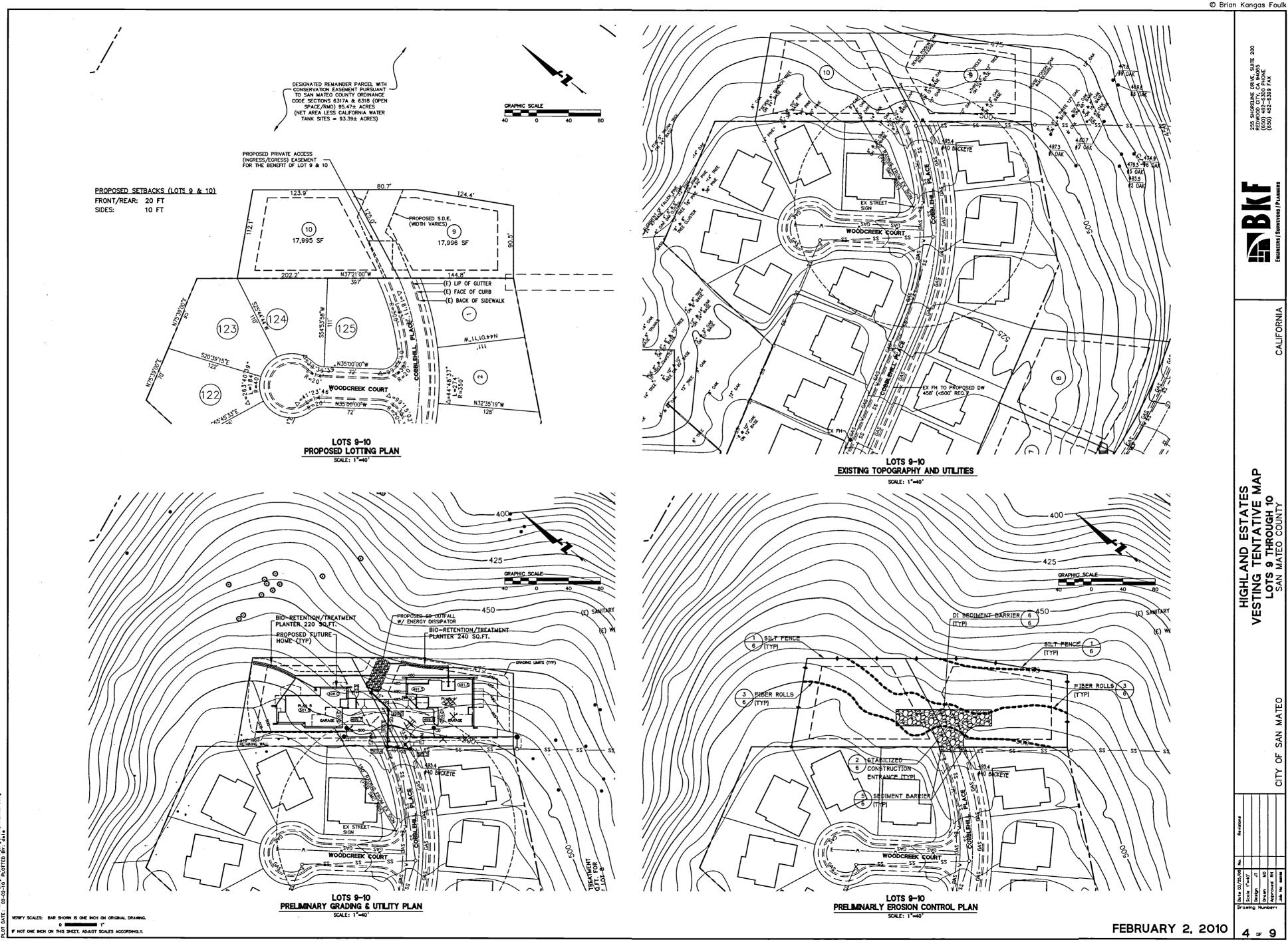
VERIFY SCALES: BAR SHOWN IS ONE INCH ON ORIGINAL DRAWNO 0 1"

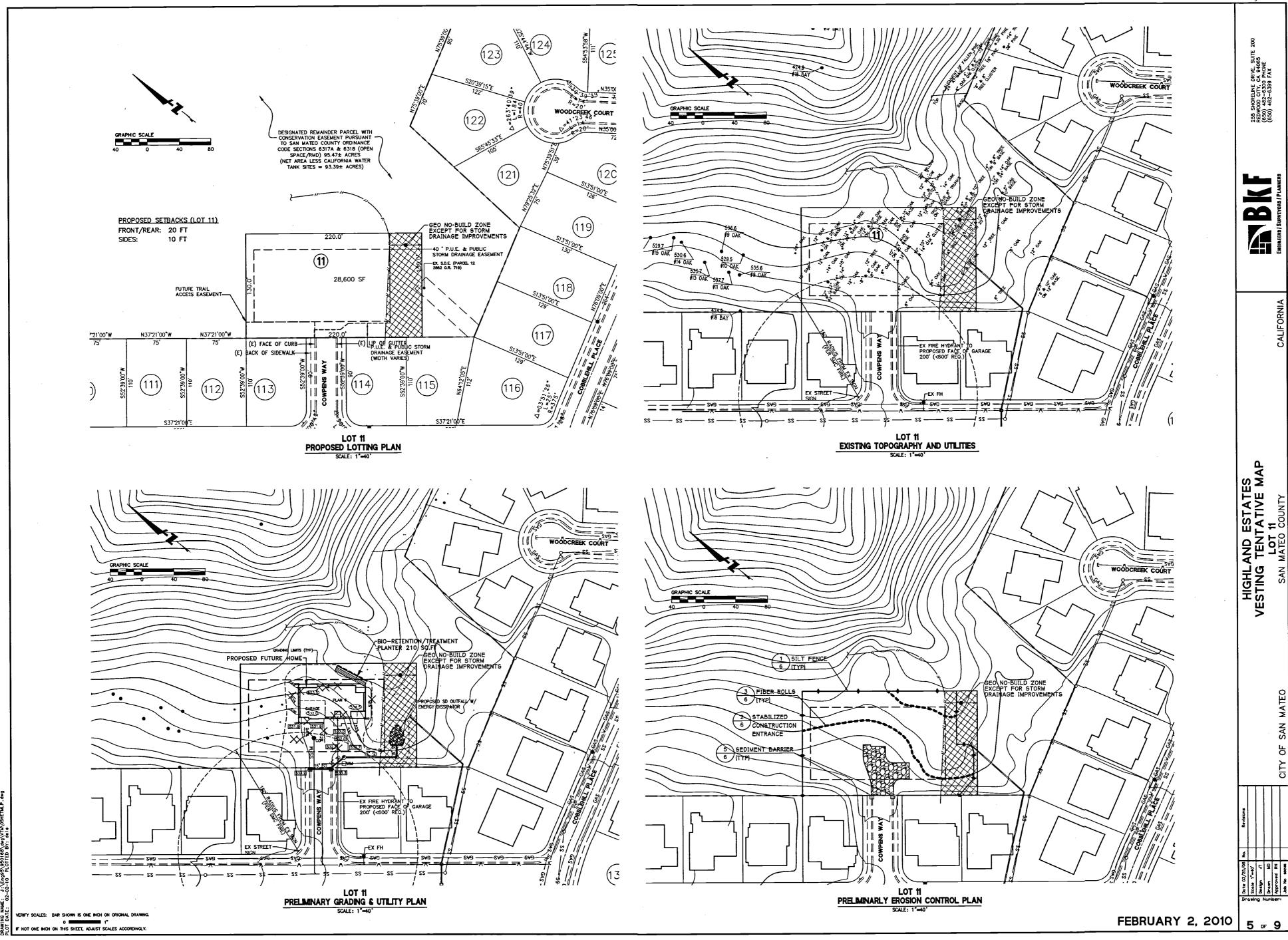
1"

F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY. LOTS 1-4
PRELIMINARY GRADING & UTILITY PLAN

NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SIDES:





O Brian Kangas Foulk

**EROSION CONTROL NOTES** 

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

2. ALTHOUGH SPECIFIC LOCATIONS FOR SEDIMENT CONTROL FACILITIES ARE SHOWN ON THESE PLANS, IT IS INTENDED THIS EROSION CONTROL PLAN BE MODIFIED WHEN NECESSARY TO MEET FIELD CONDITIONS. BASIN AND TRAP SIZES AND ELEVATIONS MAY BE ADJUSTED AS LONG AS THE MINIMUM AREAS AND DEPTHS FOR SEDIMENT SETTLING AND STORAGE ARE NOT BETWEEN.

3. THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS. PLAN UPDATES SHALL BE BASED UPON GEVERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS REQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM.

4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STIRM RUN OFF FROM LEAVING THE SITE. FIBER ROLLS, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND DITTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.

5. THE CONTRACTOR WILL BE LIBBLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MINITAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON MY PUBLIC ROAD ON THE HAUR ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

6. BEST MANAGEMENT PRACTICES AS DEFINED IN THE SWPPP SHALL BE OPERABLE

DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT—LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.

ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.

BORROW AND TEMPORARY STOCKFILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, FIBER ROLLS, SILT FENCES ETC.) OR COVERED WITH VISQUEEN TO ENSURE SILT DOES NOT LEAVE THE SITE OR

10. ALL TRUCK TIRES SHALL BE CLEANED PRIOR TO EXITING THE PROPERTY.

11. DURING PERIODS WHEN STORMS ARE FORECAST — (BETWEEN OCT 15 — APR 15)

A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.

B. ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.

C. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH STRAW BALES, SILT FENCE, OR OTHER RUNOFF CONTROLS

STOCKPITED MATERIAL WITH STRAW BALES, STET FENCE, OR OTHER ROMOFF CONTROLS.

D. USE INLET CONTROLS (E.G. FILTER MAT) FOR STORM DRAINS ADJACENT TO THE STOCKPILED SOIL.

E. THOROUGHLY SWEEP ALL NAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.

IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.

13. EROSION CONTROL IMPROVEMENTS SHALL BE INSPECTED AFTER EACH STORM AND REPAIRED AND/OR UPGRADED AS REQUIRED BY THE SAN MATEO COUNTY INSPECTORS. SEDIMENT AND DEBRIS SHALL BE RE— MOVED FROM TEMPORARY BASINS AND DRAIN INLETS AFTER EACH STORM. 14. PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPOILS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCIRCLED BY SILT FENCES/FIBER ROLLS.

STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE.

16. HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.

DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY A SILT FENCE/FIBER ROLLS.

TEMPORARY AND PERMANENT SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.

SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.

19. THE EROSION CONTROL PLAN IS FOR CONSTRUCTION BETWEEN OCTOBER 15
AND APRIL 15. OPEN SPACE AREAS ARE TO BE PLANTED BY SEPTEMBER 15.
IF THESE COMDITIONS ARE NOT MET, THE CONTRACTOR SHALL SUBMIT AN
EROSION CONTROL PLAN TO SAN MATEO COUNTY PUBLIC WORKS FOR REVIEW
AND APPROVAL. SHOULD THE PROPOSED ONSITE STORM DRAIN SYSTEM NOT BE
INSTALLED BY OCTOBER 15, TEMPORARY SEDIMENT BASINS SHALL BE INSTALLED
AROUND THE OPENINGS OF MAY EXISTING STORM PIPES WHICH DRAIN IN THE
SITE. TEMPORARY SEDIMENT BASINS SHALL BE SIZED TO ACCOMADATE ANTICI—
PATED RUNOFF FROM ALL UNDAVED PORTIONS OF THE SITE.

20. CRADING SCHEDULE SHALL BE SIZENTITED FOR ADDROVAL TO SAN MATEO.

GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.

21. SEED MIX FOR REVEGETATION AND HYDROSEEDING: NORTHERN CALIFORNIA COVER MIX BY ACBRIGHT OR EQUAL

30% BLUE WILDRYE 30% MEADOW BARLEY 20% ZORRO FESCUE 10% PURPLE NEEDLE GRASS 10% CALIFORNIA NATIVE WILDFLOWERS

APPLY AT 40 POUNDS PER ACRE MINIMUM

THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE CITY.

23. SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15 AND MAINTAINED DURING ALL PHASES OF

EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT STEEL OR WOOD POST -TO FT MAX SPACING WITH MRE SUPPORT FENCE
6 FT MAX SPACING WITHOUT
WIRE SUPPORT FENCE STEEL OR WOOD POST 36" HIGH MAX

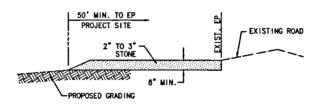
PONDING HT. FILTER FABRIC
ATTACH SECURELY
TO UPSTREAM
SIDE OF POST. RUNOFF RUNOFF STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL ALTERNATE DETAIL

INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY





#### STABILIZED CONSTRUCTION ENTRANCE

1. THE LOCATIONS SHOWN ARE FOR INFORMATION ONLY. ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMAGED LATELY.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).

3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 2" TO 3" STONE.

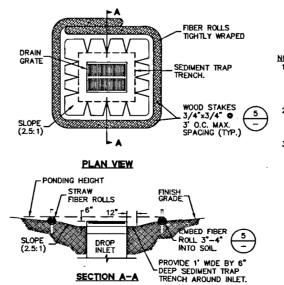
4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 8".

NOTES:

5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

6. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 50'.

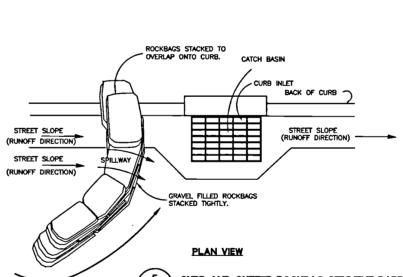




1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. (FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING. THEY ARE APPROX. 8° DIA. AND 20 - 30 FT.

FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" — 4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.



FIBER ROLL

MAX 4' SPACING

FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 4" DEEP, DUG ON CONTOUR.

3. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

FIBER ROLL DETAIL

FIBER ROLL INSTALLATION ON SLOPE (TIME FRAME: BETWEEN FINAL PAYING OPERATIONS AND PROJECT COMPLETION)
N.T.S.

N.T.S.

ENTRENCHMENT DETAIL
IN SLOPE AREA

2. ADJACENT ROLLS SHALL TIGHTLY ABUT.

PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.

-FIBER ROLL

WOOD STAKE - 3/4"x3/4" MAX 4' SPACING

ILTERED WATE

ENTRENCHMENT DETAIL

ROCKBAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC, ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.

LEAVE ONE ROCKBAG GAP IN THE TOP ROW! TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

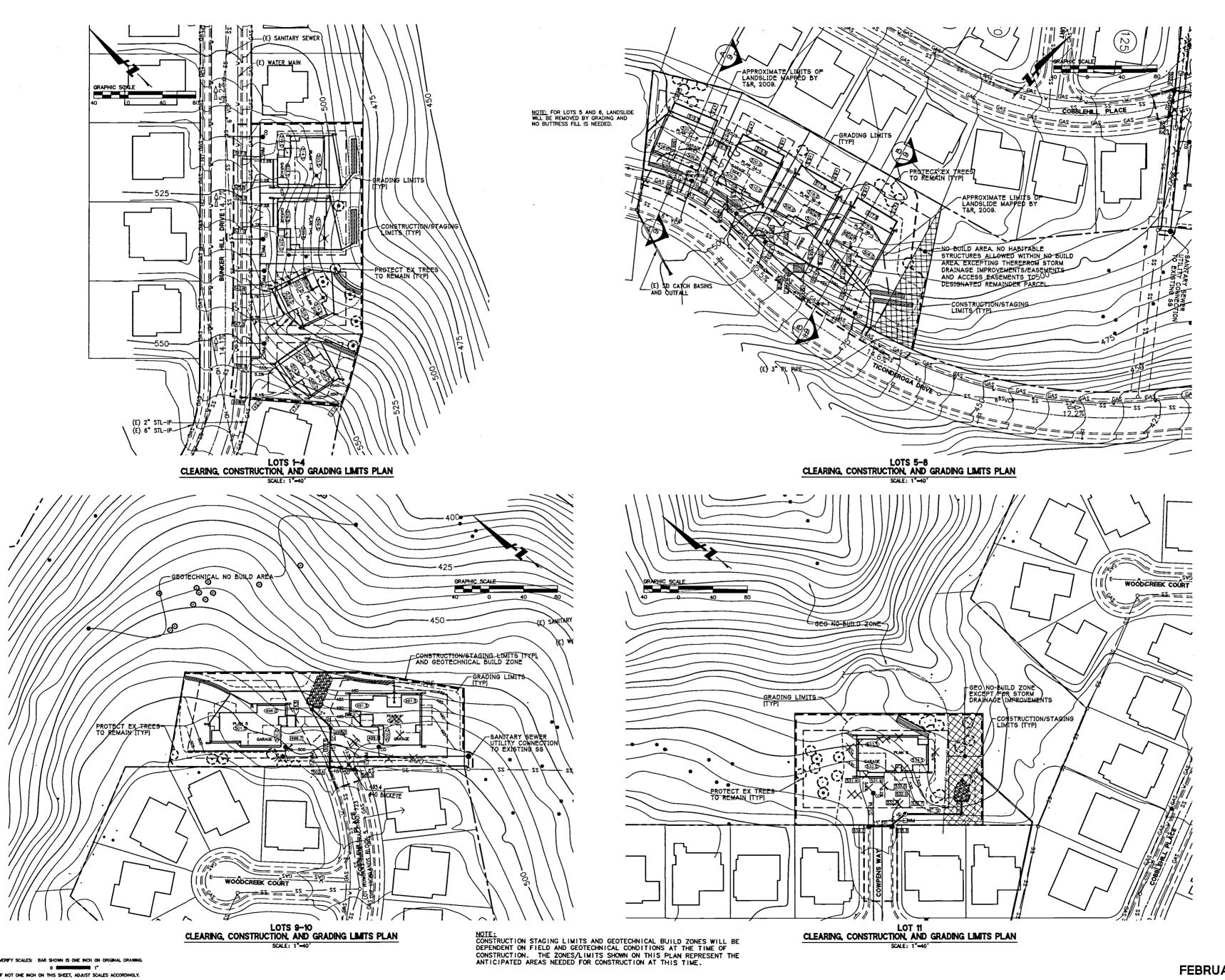
CURB AND GUTTER ROCKBAG SEDIMENT BARRIER ON SLOPE TIME FRAME: BETWEEN FINAL PAYING OPERATIONS AND PROJECT COMPLETION)
N.T.S.

DROP INLET FIBER ROLLS SEDIMENT BARRIER (TIME FRAME: AREA DRAINS - BETWEEN AREA DRAIN INSTALLATION AND PROJECT COMPLETION CURB INLETS - BETWEEN CURB INLET INSTALLATION AND FINAL PAYING OPERATIONS) N.T.S.

VERIFY SCALES: BAR SHOWN IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

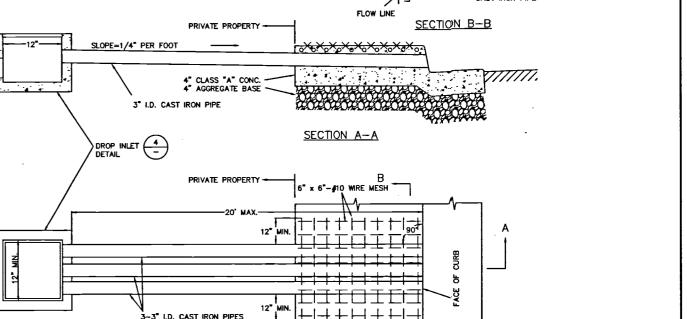
FEBRUARY 2, 2010

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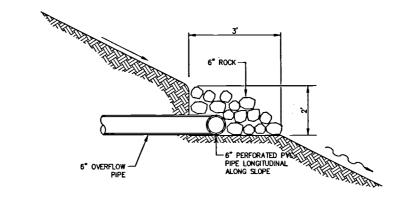


WING NAME: J:\Eng95\950

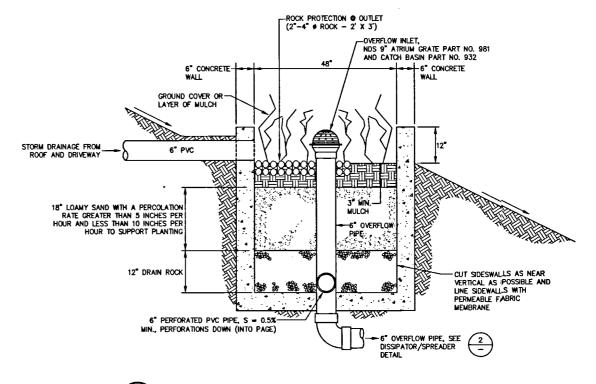
255 SHORELINE DRIVE, SUITE ; REDWOOD CITY, CA 94065 (650) 482-6300 PHONE (650) 482-6399 FAX



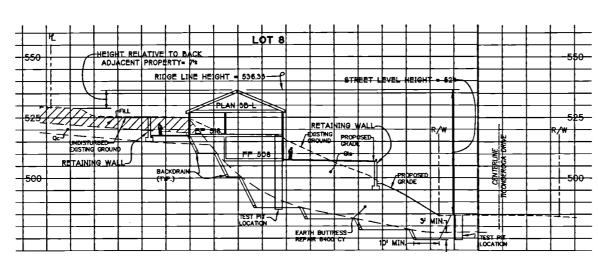




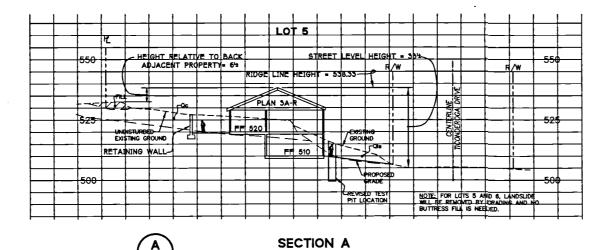
# DISSIPATOR/SPREADER DETAIL

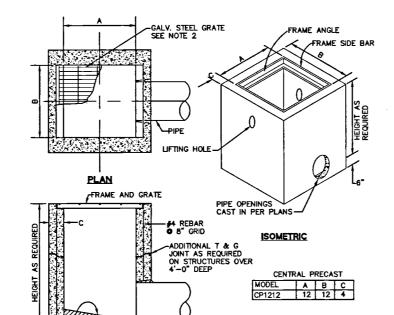


BIORETENTION BASIN DETAIL









FORM SLOPED BOTTOM IN FIELD IF REQUIRED TYPICAL SECTION NOTES:

1. CATCH BASIN SHALL BE CENTRAL PRECAST OR APPROVED EQUAL. AN ENGINEERED PRECAST DROP INLET UNIT CAN BE USED AS AN ALTERNATE.

DROP INLET DETAIL

ERIFY SCALES: BAR SHOWN IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

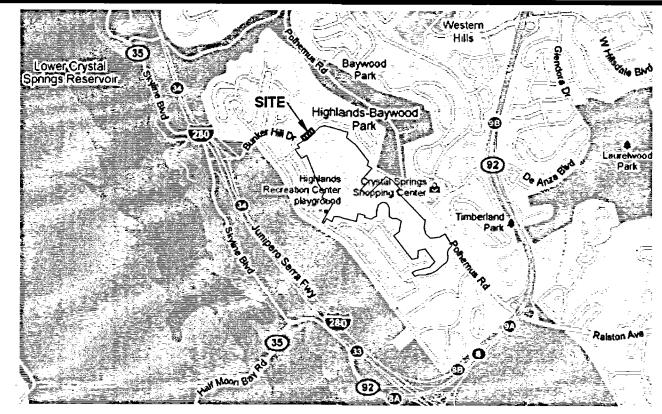
FEBRUARY 2, 2010

#### OWNER'S STATEMENT

**AS OWNERS:** 

WE HEREBY STATE THAT WE ARE THE OWNERS OF OR HAVE SOME RIGHT, TITLE, OR INTEREST IN AND TO THE REAL PROPERTY INCLUDED WITHIN THE SUBDIVISION SHOWN UPON THE HEREIN MAP; THAT WE ARE THE ONLY PERSONS WHOSE CONSENT IS NECESSARY TO PASS CLEAR TITLE TO SAID REAL PROPERTY; AND THAT WE CONSENT TO THE PREPARATION AND RECORDATION OF SAID MAP AND SUBDIVISION AS SHOWN WITHIN THE DISTINCTIVE BORDER LINE.

	NAME		TITLE	
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VICINITY MAP

#### TRUSTEE'S ACKNOWLEDGMENT

STATE OF CALIFORNIA COUNTY OF	·	
WHO PROVED TO ME ON	PEARED THE BASIS OF SATISFA	CTORY EVIDENCE TO BE THE PERSON(S)
ME THAT HE/SHE /THEY CAPACITY(IES) AND BY H	'EXECUTED THE SAME I HIS/HER/THEIR SIGNATU	THIN INSTRUMENT AND ACKNOWLEDGED TO IN HIS/HER/THEIR AUTHORIZED RE(S) ON THE INSTRUMENT THE PERSON(S), ERSON(S) ACTED, EXECUTED THE
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TRUSTEE'S ACKNOWLEDGMENT	
STATE OF CALIFORNIA COUNTY OF	<u>.</u>
ON BEFORE ME, PUBLIC, PERSONALLY APPEARED WHO PROVED TO ME ON THE BASIS OF SATI	SFACTORY EVIDENCE TO BE THE PERSON(S)
WHOSE NAME(S) IS/ARE SUBSCRIBED TO THE ME THAT HE/SHE /THEY EXECUTED THE SAI	E WITHIN INSTRUMENT AND ACKNOWLEDGED TO ME IN HIS/HER/THEIR AUTHORIZED ATURE(S) ON THE INSTRUMENT THE PERSON(S),
I CERTIFY UNDER PENALTY OF PERJURY UND THAT THE FOREGOING PARAGRAPH IS TRUE	DER THE LAWS OF THE STATE OF CALIFORNIA AND CORRECT.
WITNESS MY HAND:	
SIGNATURE	· <del></del>
NAME (TYPED OR PRINTED), NOTARY PUBLIC AND FOR SAID COUNTY AND STATE. PRINCIPAL COUNTY OF BUSINESS: COMMISSION EXPIRES: COMMISSION # OF NOTARY:	<del></del>

#### SURVEYOR'S STATEMENT

THIS MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY IN CONFORMANCE WITH THE REQUIREMENTS OF THE SUBDIVISION MAP ACT AND LOCAL ORDINANCE AT THE REQUEST OF TICONDEROGA PARTNERS LLC IN APRIL 2011. I HEREBY STATE THAT THIS PARCEL MAP SUBSTANTIALLY CONFORMS TO THE APPROVED OR CONDITIONALLY APPROVED TENTATIVE MAP, IF ANY, AND THAT ALL MONUMENTS ARE OF THE CHARACTER AND OCCUPY THE POSITIONS INDICATED, OR THAT THEY WILL BE SET IN THOSE POSITIONS BEFORE SEPTEMBER 2013, AND THAT THE MONUMENTS ARE, OR WILL BE, SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

E:

CHARLES R. CIARDI

No. 7321

CHARLES R. CIARDI, P.L.S. 7321

#### COUNTY SURVEYOR'S STATEMENT

I HEREBY STATE THAT I HAVE EXAMINED THIS MAP AND THAT THE SUBDIVISION AS SHOWN HEREON IS SUBSTANTIALLY THE SAME AS IT APPEARED ON THE TENTATIVE MAP, IF REQUIRED, AND ANY APPROVED ALTERATIONS THEREOF; THAT ALL THE PROVISIONS OF THE CALIFORNIA "SUBDIVISION MAP ACT" AND OF THE "SAN MATEO COUNTY ORDINANCE" APPLICABLE AT THE TIME OF APPROVAL OF THE TENTATIVE MAP, IF REQUIRED, HAVE BEEN COMPLIED WITH; AND THAT I AM SATISFIED THAT THE MAP IS TECHNICALLY CORRECT.

DATE:	<del></del>

BRIAN C. LEE,
DEPUTY DIRECTOR OF PUBLIC WORKS
R.C.E. #26573

#### CLERK OF THE BOARD STATEMENT

I HEREBY STATE THAT THE BOARD OF SUPERVISORS OF SAN MATEO COUNTY, STATE OF CALIFORNIA, DO HEREBY CERTIFY THAT CERTIFICATES HAVE BEEN FILED AND DEPOSITS HAVE BEEN MADE IN CONFORMANCE WITH THE REQUIREMENTS OF SECTIONS 66492 AND 66493 OF THE GOVERNMENT CODE OF THE STATE OF CALIFORNIA.

DATED:	BY:	
_		CLERK OF THE BOARD OF SUPERVISORS SAN MATEO COUNTY, STATE OF CALIFORNI

BY:	
	DEDLITY

### COUNTY RECORDER'S STATEMENT

# PARCEL MAP

BEING A RESUBDIVISION OF A PORTION OF PARCEL ONE OF THAT CERTAIN GRANT DEED RECORDED MARCH 14, 2008 AS DOCUMENT NUMBER 2008-027480 OF OFFICIAL RECORDS, SAN MATEO COUNTY

UNINCORPORATED

SAN MATEO COUNTY

CALIFORNIA

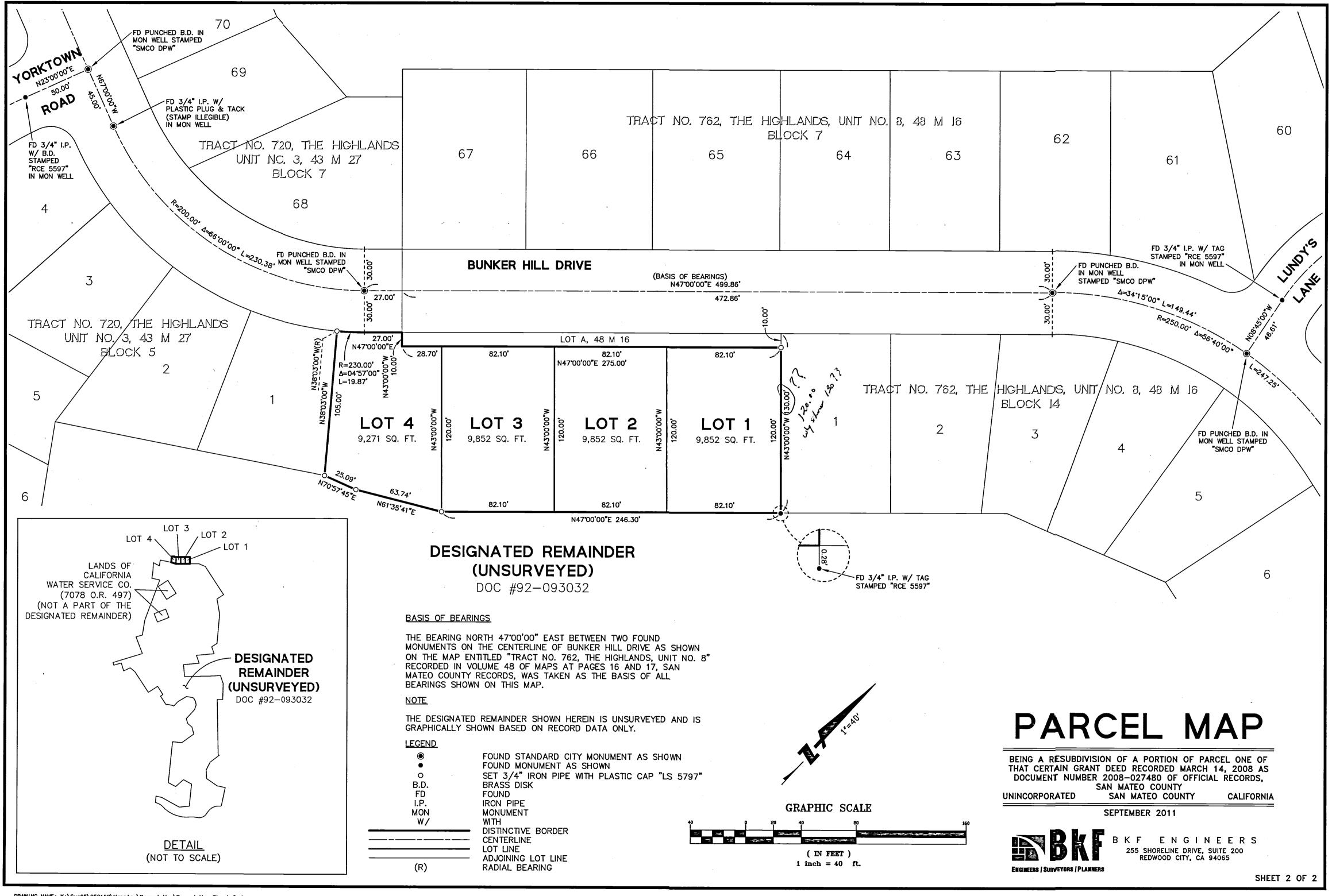
SEPTEMBER 2011



K F L N G I N E E R S 255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065

SHEET 1 OF 2

20090010



# IMPROVEMENT PLANS FOR

# HIGHLAND ESTATES - LOT 5 TICONDEROGA DRIVE

COUNTY OF SAN MATEO, CALIFORNIA

#### SHEET INDEX

SHEET NO DESCRIPTION

GENERAL NOTES, LEGEND AND ABBREVIATIONS

C5.50

C5.60

C5.71

C5.80 LOGISTICS PLAN

CASCA STANDARD DETAILS

1.100 CY 1,100 CY CUT

C5.70

C5.90

- THE QUANTITIES SHOWN ABOVE EXCLUDE EARTHWORK FROM GEOTECHNICAL SLOPE REMEDIATION ACTIVITIES PER CONDITION OF APPROVAL ITEM NO. 4.M., INCLUDING EARTHWORK SWELLING AND SHINKAGE FACTORS ASSOCIATED WITH GEOTECHNICAL SLOPE REMEDIATION MITIGATION.
- 2. THE EARTHWORK QUANTITIES SHOWN ABOVE ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
- A. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPINGS.
- A EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPINGS.

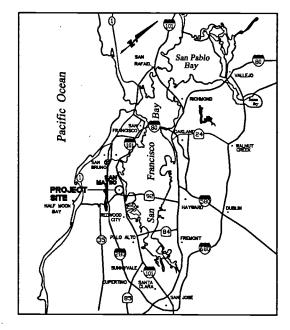
  B. THE UNIT PAD SECTION IS ASSUMED TO BE A 12" THICK CONCRETE SECTION.

  C. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE FACTORS.

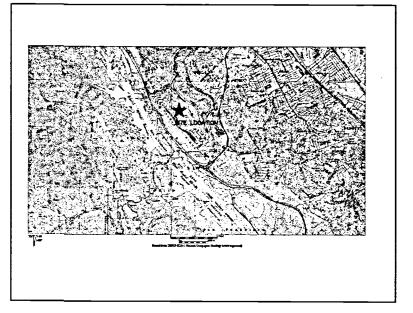
  D. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.

  E. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SOIL STABILIZATION FACTORS AND LANDSCAPING PLANTING SOILS.

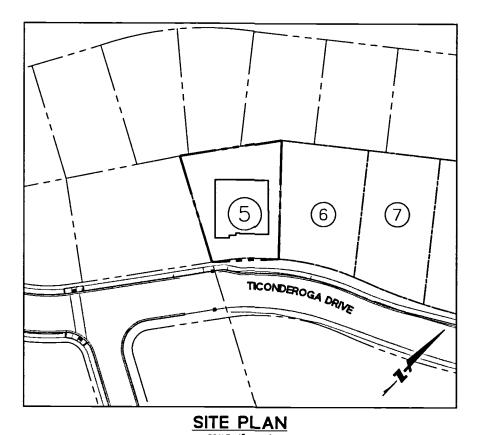
  F. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR RETAINING WALLS AND BUILDING FOOTINGS AND BACKFILL.
- 2. ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND INDEPENDENT CALCULATIONS.



VICINITY MAP



LOCATION MAP



#### PROJECT DATA

LOT AREA: EXISTING LAND USE: PROPOSED USE: EXISTING ZONE: PROPOSED ZONE: PROPOSED USE:

DEVELOPER:

UNDEVELOPED LAND RESIDENTIAL (LOT 5) RMD - RESOURCE MANAGEMENT DISTRICT

1 RESIDENTIAL LOT

TICONDEROGA PARTNERS, A CALIFORNIA LIMITED LIABILITY CORPORATION

C/O THE CHAMBERLAIN GROUP 655 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595-5582 ATTN: JACK CHAMBERLAIN 655 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595-5582 ATTN: JACK CHAMBERLAIN

CIVIL ENGINEER:

BKF ENGINEERS
255 SHORELINE DRIVE, SUITE 200
REDWOOD CITY, CA 94065
(650) 482-6300
CORNERSTONE EARTH GROUP GEOTECHNICAL ENGINEER: 1259 OAKMEAD PARKWAY

SUNNYVALE, CA 94085 (408) 245-4600 WATER SUPPLY: CAL WATER SERVICE 341 N. DELAWARE STREET

CITY OF SAN MATEO & CRYSTAL SPRINGS COUNTY SANITATION DISTRICT SEWAGE DISPOSAL:

GAS & FLECTRIC PG&E TELEPHONE:

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

COMCAST STORM DRAINAGE: COUNTY OF SAN MATEO

CITY OF SAN MATEO
AERO-GEODIC COROP. TOPOGRAPHIC BASE MAP:

DATE OF PHOTOGRAPHY 9/18/87 NOEL CHAMBERLAIN, NEXGEN BUILDERS INC. 225 DEMETER STREET EROSION CONTROL POINT OF CONTACT:

EAST PALO ALTO, CA 94303
PHONE #: (650) 322-5800
CELL #: (650) 444-3089
EMAIL: noel@nexgenbuilders.com

#### **ENGINEER'S STATEMENT**

THESE IMPROVEMENT PLANS HAVE BEEN PREPARED BY ME OR UNDER: MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

ROLAND N.V. HAGA R.C.E NO. 43971 BKF ENGINEERS



ËS MPROVE TITLE S HIGHL/ 5 IMPI

C5.10

PERFORM WORK IN CONFORMANCE WITH THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT TITLED "UPDATED GEOTECHNICAL INVESTIGATION, HIGHLAND ESTATES LOTS 5 THROUGH 11, TICONDEROGA DRIVE/COBBLEHILL PLACE/COMPENS WAY, SAN MATEO COUNTY, CALIFORNI PARED BY CORNERSTONI EARTH GROUP, DATED OCTOBER 30, 2015, GRADING WORK WILL BE SUBJECT TO APPROVAL OF GEOTECHNICAL ENGINEER.

3. ARRANGE FOR REQUIRED INSPECTIONS BY COUNTY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANGE FOR REQUIRED COUNTY INSPECTIONS IN ADVANCE. PROVIDE NOTICE TO COUNTY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.

REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY ENGINEER, WHO WILL OBTAIN APPROVAL FROM COUNTY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS, WHICH SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND COUNTY ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.

REPLACE OR REPAIR EXISTING UTILITIES, IMPROVEMENTS OR FEATURES DAMAGED. REMOVED, OR DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON PLANS OR NOT.

REPLACE STREET MONUMENTS, LOT CORNERS PIPES AND OTHER PERMANENT MONUMENTS DISTURBED DURING CONSTRUCTION. MONUMENTS SHALL BE SET BY A SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

PREPARE TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM COUNTY ENGINEER BEFORE COMMENCING WORK. PROVIDE FLAG MEN, CONES, BARRICADES AND OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROVIDE SAFE LANE CLOSURE IN COMFORMANCE WITH CALTRAIS STANDARDS AND AS APPROVED BY COUNTY

8. PEDESTRIAN TRAFFIC CONTRX. TO BE PROVIDED WHEN EXISTING SIDEWALKS CANNOT BE MAINTAINED DURING CONSTRUCTION.

DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS, BACKFILL OR COVER OPEN TRENCHES AT THE END OF WORK EVERY WORK DAY.

10. PREPARE SHORING PLAN AND SUBMIT TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL. ADEQUATELY SHORE EXCAVATIONS TO PREVENT EARTH FROM SLIDING OR SETTLING AND TO PROTECT EXISTING ADJACENT IMPROVEMENTS FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE SHORING IN CONFORMANCE WITH APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE CAUFORNIA DIVISION OF INDUSTRIAL SAFETY AND OSHA WHERE EXCAVATIONS ARE 5 FEET OR MORE IN DEPTH.

11. IMPLEMENT CONSTRUCTION DUST CONTROL MEASURES TO REDUCE PARTICULATE GENERATION TO A LESS THAN SIGNIFICANT LEVEL PROVIDE DUST CONTROL IN CONFORMANCE WITH BAY AFEA AIR QUALITY MANAGEMENT DISTRICT MINIMUM REQUIREMENTS IMPLEMENT THE FOLLOWING CONSTRUCTION PRACTICES EXCEPT

11.A. WATER ACTIVE EXTERIOR SOIL AREAS AT LEAST TWICE DAILY.

COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL OR PROVIDE 2 FEET OF FRIEBOARD.

11.C. PAVE, APPLY WATER THREE TIMES DAILY OR APPLY NON-TOXIC SOIL STABILIZER ON UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING

11.D. SWEEP PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS DAILY.

APPLY HYDROSEED OR NON-TOXIC SOIL STABILIZER TO INACTIVE CONSTRUCTION AREAS.

ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON-TOXIC SOIL STABILIZER TO EXPOSED SOIL STOCKPILES.

11.G. INSTALL SANDBAGS AND OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

LIMIT TRAFFIC SPEED ON UNPAVED ROADS TO 15 MPH.

REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE

KEEP STREETS CLEAN OF DRT, MUD AND OTHER CONSTRUCTION DEBRIS. CLEAN AND SWEEP STREETS ON A DAILY BASIS DURING THE WORK WEEK.

13. SHOULD IT APPEAR THAT THE WORK IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN CONSTRUCTION DOCUMEN'S, NOTIFY ENGINEER AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK IN QUESTION.

CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

IF BKF ENGINEERS IS RETAINED TO PROVIDE CONSTRUCTION STAKING SERVICES, CONTRACTOR WILL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED, RESTAKING SHALL BE AT CONTRACTOR'S EXPENSE.

16. MATCH EXISTING PAYEMENT, CURB AND GUTTER, SIDEWALK, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS MITH SMOOTH TRANSITION TO AVOID ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPES, LOW SPOTS OR HAZARDOUS

WIST SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND OVERALL PROJECT REQUIREMENT PRIOR TO BIDDING PROJECT.

18. OBTAIN AND PAY FOR PERMTS AND LICENSES AS REQUIRED TO PERFORM WORK WITHIN THE COUNTY OF SAN MATEO PRIOR TO START OF WORK. PERMITS MAY INCLUDE ENCROACHMENT PERMIT FOR WORK WITHIN COUNTY RIGHT-OF-WAY AND

CONTRACTOR IS RESPONSIBLE FOR TRAFFIC AND PEDESTRIAN CONTROL DURING CONSTRUCTION.

OBTAIN APPROVAL OF IMPORT SOIL MATERIAL FROM GEOTECHNICAL ENGINEER PRIOR TO DISTRIBUTING MATERIAL OVER SITE.

PROTECT ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS, STREETS AND OTHER FEATURES FROM DAMAGE BY CONTRACTOR'S OPERATIONS. REPAIR, REPLACE, OR CLEAN ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS, STREETS AND OTHER FEATURES TO SATISFACTION OF OWNER.

22. MAINTAIN AND MANAGE CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES AT THE CONSTRUCTION SITE.

NOTIFY COUNTY ENGINEER A MINIMUM OF 24 HOURS PRIOR TO STARTING WORK ON OFF-SITE DRAINAGE AND SEMER FACILITIES, GRADING, PAYING, OR WORK IN THE COUNTY RIGHT-OF-WAY.

24. MAKE EFFORTS TO MINIMIZE CONSTRUCTION NOISE.

J:\Eng95\ 07-28-18

NG NAME: DATE:

24.A. MAINTAIN EQUIPMENT USED ON SITE IN GOOD MECHANICAL CONDITION TO MINIMIZE NOISE CREATED BY FAULTY OR POORLY MAINTAINED ENGINE, DRIVE-TRAIN AND OTHER COMPONENTS.

24.B. EQUIPMENT EXCEEDING 110 DBA MEASURED 25 FEET FROM THE PIECE OF EQUIPMENT WILL NOT BE ALLOWED ON SITE.

24.C. SELECT APPROPRIATE EQUIPMENT TO MINIMIZE NOISE GENERATION. USE THE FOLLOWING TECHNIQUES TO MINIMIZE NOISE GENERATION SUBJECT TO EQUIPMENT AVAILABILITY AND COST CONSIDERATIONS. USE SCRAPERS AS MUCH AS POSSIBLE FOR EARTH REMOVAL, RATHER THAN NOISIER LOADERS AND HAUL TRUCKS. USE BACKHOES FOR BACKFILLING AS IT IS QUIETER THAN DOZERS OR LOADERS. USE MOTOR GRADERS RATHER THAN BULLDOZERS FOR ENAL GRADING.

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A FIELD TOPOGRAPHIC SURVEY OF THE PROJECT SITE BY BKF ENGINEERS, DATED JUNE 2009. ACTUAL CONDITIONS ENCOUNTERED ON SITE MAY VARY FROM THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND CONDITION THEIR OWN INVESTIGATIONS TO LINDERSTAND AND VERIFY EXISTING THEIR OWN INVESTIGATIONS TO UNDERSTAND AND VERIFY EXISTING

Existing subsurface improvements and utilities shown on these plans were taken from record information known to the engineer and field survey of above grade features. These plans are not meant to be a full catalog of existing subsurface conditions. Conduct field INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCES BETWEEN EXSTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.

VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION AFFECTING UTILITIES. POTHOLE WHERE NEEDED TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.

CONTACT USA (UNDERGROUND SERVICES ALERT) AT 1-800-227-2600, AND
AFFECTED UTILITY COMPANIES A MINIMUM OF 2 WORKING DAYS PRIOR TO STARTING
WORK TO REQUEST UTILITIES BE MARKED.

REMOVE FROM SITE AND DISPOSE OF IN LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES NOT REMOVED DURING DEMOLITION OR ROUGH GRADING AND ENCOUNTERED DURING WORK ON SITE.

REMOVE WOOD OR CONCRETE STRUCTURES, SLABS, FOOTINGS, GRADE BEAMS, DECKS, DOCKS, AND OTHER SIMILAR STRUCTURES.

REMOVE LANDSCAPING, UTILITIES AND IRRIGATION LINES AS SPECIFIED BY GEOTECHNICAL ENGINEER.

REMOVE ABANDONED IN-GROUND STRUCTURES, SUCH AS CULVERTS, UTILITY VAULTS, AND FOUNDATIONS AS SPECIFIED BY GEOTECHNICAL ENGINEER.

1. DEWATER AREAS COVERED WITH STANDING WATER PRIOR TO PLACEMENT OF FILL.

DISPOSE OF WATER FROM DEWATERING OPERATION IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

DO NOT OPERATE WATER VALVES OR OTHER WATER DISTRICT FACILITIES. REQUIRED OPERATION WILL BE PERFORMED BY UTILITY DISTRICT PERSONNEL ONLY. NOTIFY UTILITY DISTRICT 2 WORKING DAYS PRIOR TO REQUIRING FACILITY OPERATION.

PROVIDE MINIMUM 12 INCH VERTICAL CLEARANCE BETWEEN ADJACENT UTILITY PIPES AT UTILITY CROSSINGS UNLESS OTHERWISE NOTED. 11. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.

COMPLETE ELECTRIC, CAS, TELEPHONE, CABLE AND OTHER JOINT TRENCH WORK IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDER. NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK. F EXISTING WATER, SEWER, CAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.

4. PROTECT UTILITIES FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.

5. PROVIDE UTILITY STRUCTURES IN PAVED AREAS SUITABLE FOR H-20 LOADING.

PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.

CONSTRUCT GRAVITY FLOW UTILITIES FROM DOWNSTREAM CONNECTION POINT TO

8. COORDINATE WITH COUNTY OF SAN MATEO AND CRYSTAL SPRINGS SANITATION DISTRICT FOR INSPECTION OF WORK ON DISTRICT FACILITIES.

ALL WATER LATERALS AND SERVICES SHALL BE INSTALLED TO THE STANDARDS OF THE CALIFORNIA WATER SERVICE COMPANY. EXISTING WATER MAINS OR LATERALS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND TESTED TO THE

off-site import fill material shall conform to the specifications and the requirements of the geotechnical report.

TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH AND DEBRIS WILL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.

REMOVE DEBRIS FROM AREAS OF EARTHWORK PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS.

PLACE AND COMPACT FILL MATERIAL AS RECOMMENDED IN GEOTECHNICAL REPORT. PLACE FILL MATERIAL IN MAXIMUM 8 INCH UNCOMPACTED THICKNESS. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.

5. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES.

KEEP ACCURATE RECORD OF THE FINAL LOCATION, ELEVATION AND DESCRIPTION
OF WORK ON A COPY OF THE FINAL APPROVED CONSTRUCTION DOCUMENTS, NOTE
THE LOCATIONS AND ELEVATIONS OF EIGSTING IMPROVEMENTS ENCOUNTERED THAT
VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS, PROVIDE COPY
OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND WHEN
DEDUCESTED.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSEILTY 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 ADDRESS OF THE PROPERTY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO ADDRESS OF THE PROPERTY O APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AN CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDENNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE COUNTY OF SAM MATEO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE COUNTY OF SAN MATEO, RESPECTIVELY.

DL UNAUTHORIZED CHANGES AND USES

1. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE COUNTY ENGINEER AND THE PREPARER OF THESE PLANS.

NOTES AND CALLOUTS ON DRAWINGS MAY USE IMPERATIVE LANGUAGE. REQUIREMENTS EXPRESSED IMPERATIVELY ARE TO BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

CONDITIONS OF APPROVAL NOTES

THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET THEN 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT). MICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO US EMULSIFIED FUELS.

2. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT. WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.

FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL, BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.

4. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.

COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SIZE.

SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.

SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.

9. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).

10. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO ROADS TO IS MILES PER HOUR.

ROADS TO 15 MILES PER HOUR.

12. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

13. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE 14. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.

15. INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.

16. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.

EQUIPMENT AND TRUCKS USED FOR PROJECT GRADING AND CONSTRUCTION WOULD UTILIZE THE BEST AVAILABLE NOISE CONTROL TECHNIQUES (E.G., IMPROVED EXHAUST MUFFLERS, EQUIPMENT REDESIGN, USE OF INTAKE SILENCERS, DUCTS, ENGINE ENCLOSURES, AND ACOUSTICALLY—ATTENHATING SHIELDS OR SHROUDS) IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS.

EQUIPMENT USED FOR PROJECT GRADING AND CONSTRUCTION WOULD RE FOUNDMENT USED FOR PYOUSE CERADING AND CONSTRUCTION WOULD BE HYDRAULICALLY OR ELECTRICALLY POWERED IMPACT TOOLS (E.G., JACK HAMMERS AND PAVEMENT BREAKERS) WHEREVER POSSIBLE TO AVOID MOISE ASSOCIATED WITH COMPRESSED AIR EXHAUST FROM PHEDWATICALLY—POWERED TOOLS. COMPRESSED AIR EXHAUST SILENCERS WOULD BE USED ON OTHER EQUIPMENT. OTHER QUIETER PROCEDURES WOULD BE USED SUCH AS DRILLING RATHER THAN IMPACT EQUIPMENT WHENEVER FEASIBLE.

3. THE GRADING AND CONSTRUCTION ACTIVITY WOULD BE KEPT TO THE HOURS OF 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY, SATURDAY HOURS (8:00 AM TO 5:00 PM) ARE PERMITTED UPON THE DISCRETION OF COUNTY APPROVAL BASED ON INPUT FROM NEARBY RESIDENTS AND BUSINESSES. SATURDAY CONSTRUCTION (8:00 AM TO 5:00 PM) WOULD BE ALLOWED ONCE THE BUILDINGS ARE FULLY ENCLOSED. NOISE GENERATING GRADING AND CONSTRUCTION ACTIVITIES SHALL NOT OCCUR AT ANY TIME ON SUNDAYS, THANKSGIVING AND CHRISTMAS.

RESIDENTIAL PROPERTY OWNERS WITHIN 200 FEET OF PLANNED CONSTRUCTION AREAS SHALL BE NOTIFIED OF THE CONSTRUCTION SCHEDULE IN WRITING, PRIOR TO CONSTRUCTION; THE PROJECT SPONSOR SHALL BESIGNATE A "DISTURBANCE COORDINATOR" WHO SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COORDINATOR' WHO SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COMPLAINTS REGARDING CONSTRUCTION NOISE; THE COORDINATOR (WHO MAY BE AN EMPLOYEE OF THE DEVELOPER OR GENERAL CONTRACTOR) SHALL DETERMINE THE CAUSE OF THE COMPLAINT AND SHALL REQUIRE THAT REASONABLE MEASURES WARRANTED TO CORRECT THE PROBLEM BE INPLEMENTED; A TELEPHONE NUMBER OF THE NOISE DISTURBANCE COORDINATOR SHALL BE CONSPICUOUSLY POSTED AT THE CONSTRUCTION STIE FENCE AND ON THE NOTIFICATION SENT TO NEIGHBORS ADJACENT TO THE SITE.

1. IF NATURALLY OCCURRING ASBESTOS IS IDENTIFIED AT THE SITE, A SITE HEALTH IF NATURALLY OCCURRING ASSESTOS IS IDENTIFIED AT THE SITE, A SITE HEALTH AND SAFETY (H&S) PLAN INCLUDING METHODS FOR CONTROL OF AIRBORNE DUST SHALL BE PREPARED. THIS PLAN SHALL BE REVIEWED AND APPROVED BY THE COUNTY OF SAN MATEO PRIOR TO GRADING IM AREAS UNDERLAIN BY SERPENTINE-BEARING SOILS OR BEDROCK AND NATURALLY OCCURRING ASSESTOS. THE HAS PLAN SHALL STRICTLY CONTROL DUST-GENERATING EXCAVATION AND COMPACTION OF MATERIAL CONTAINING NATURALLY OCCURRING ASSESTOS. THE PLAN SHALL ALSO DENIFY SITE-MONITORING ACTIVITIES DEEMED NECESSARY DURING CONSTRUCTION (E.G., AIR MONITORING), WORKER MONITORING SHALL ALSO BE PERFORMED AS APPROPRIATE. THE PLAN SHALL DEFINE PERSONAL PROTECTION METHODS TO BE USED BY CONSTRUCTION WORKERS. ALL WORKER PROTECTION AND MONITORING SHALL COMPLY WITH PROVISIONS OF THE MINING SAFETY AND HEALTH ADMINISTRATION (MSHA) GLIDBLINES, CALIFORNIA DIVISION OF OCCULPATIONAL SAFETY AND SAFETY AND HEALTH (DOSH), AND THE FEDERAL OCCUPATIONAL SAFETY AN HEALTH ADMINISTRATION (OSHA).

IF NATURALLY OCCURRING ASBESTOS IS FOUND AT THE SITE, A SOIL MANAGEMENT PLAN SHALL BE DEVELOPED AND APPROVED BY THE COUNTY PLANNING DEPARTMENT TO PROVIDE DETAILED DESCRIPTIONS OF THE CONTROL AND DISPOSITION OF SOILS CONTAINING NATURALLY OCCURRING ASBESTOS. SERPENTINE MATERIAL PLACED AS FILL SHALL BE SUFFICIENTLY BURIED IN ORDER TO PREVENT EROSION BY WIND OR SURFACE WATER RUNOFF, OR EXPOSURE TO FUTURE HUMAN ACTIVITIES, SUCH AS LANDSCAPING OR SHALLOW TRENCHES. ADDITIONALLY, THE BAACOND SHALL BE NOTIFIED PRIOR TO THE START OF ANY EXCAVATION IN AREAS CONTAINING NATURALLY OCCURRING ASBESTOS.

1. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 30) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN

TREE PROTECTION NOTES

1. THE APPLICANT SHALL ESTABLISH AND MAINTAIN TREE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT. TREE PROTECTION ZONES SHALL BE DELINEATED USING 4—FOOT TALL ORANGE PLASTIC FERCING SUPPORTED BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPUNES AS POSSIBLE WHILE STILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE. THE APPLICANT SHALL MAINTAIN TREE PROTECTION ZORES FREE OF ECUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY ECUIPMENT WITHIN THESE AREAS. SHOULD ANY LARGE ROOTS OR LARGE MASSES OF ROOTS NEED TO BE CUT, THE ROOTS SHALL BE INSPECTED BY A CERTIFIED ABBORIST OR REGISTERED FORESTER PRIOR TO CUITING, ANY ROOT CUITING SHALL BE MONITORED BY AN ABBORIST OR FORESTER AND DOCUMENTED. ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS. NORMAL IRRIGATION SHALL BE MAINTAINED, BUT OAKS SHOULD NOT NEED SUMMER IRRIGATION. THE ABOVE INFORMATION SHALL BE ON—SITE AT ALL TIMES.

VEGETATION REMOVAL/REPLACEMENT NOTES

VEGETATION REMOVED IN AREAS OUTSIDE OF BUILDING FOOTPRINTS, DRIVEWAYS, AND CONSTRUCTION ACCESS AREAS SHALL BE REPLACED WITH OROUGHT-TOLERANT, NON-INVASIVE PLANTS, IMMEDIATELY AFTER GRADING IS COMPLETE IN THAT AREA. PRIOR TO THE ISSUANCE OF ANY BUILDING PERMITS, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION TO THE CURRENT PLANNING SECTION, SUBJECT TO REVIEW AND ADDROVAL BY THE COMMUNITY DEMOCRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION TO THE CURRENT PLANNING SECTION, SUBJECT TO REVIEW AND ADDROVAL BY THE COMMUNITY DEPOCRATE. APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR.

THE APPLICANT SHALL REPLACE ALL VEGETATION REMOVED IN ALL AREAS NOT COVERED BY CONSTRUCTION WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, ONCE CONSTRUCTION IS COMPLETED. PRIOR TO THE CURRENT PLANNING SECTION'S FINAL APPROVAL OF ANY BUILDING PERMIT, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION, SUBJECT TO

DUST CONTROL NOTES

ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON A JOINING WATER BODY, PROPERTY, OR STREETS, EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROPECT.

A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE regional water quality control board.

 THE APPLICANT AND CONTRACTORS MUST BE PREPARED TO CARRY OUT THE REQUIREMENTS OF CALIFORNIA STATE LAW WITH REGARD TO THE DISCOVERY OF HUMAN REMAINS DURING CONSTRUCTION, WHETHER HISTORIC OR PREHISTORIC. IN THE EVENT THAT ANY HUMAN REMAINS ARE ENCOUNTERED DURING SITE STRUCKED, ALL GROUND-DISTURBING WORK SHALL CASE MIMEDIATELY AND THE COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY. IF THE CORONER DETERMINES THE REMAINS TO BE NATIVE ARERICAN, THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS. A QUALIFIED ARCHAEOLOGIST, IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS. A QUALIFIED ARCHAEOLOGIST, IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS. A QUALIFIED ARCHAEOLOGIST, IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN CAMERICAN HERITAGE. COMMISSION, SHALL RECOMMEND SUBSEQUENT MEASURES FOR DISPOSITION OF THE

GEOTECHNICAL INSPECTION NOTE

PRIOR TO ISSUANCE OF BUILDING PERMITS. THE PROJECT GEOTECHNICA CONSULTANT SHALL FIELD INSPECT (AND INVESTIGATE, AS NEEDED) ALL PROPOSED DRAINAGE DISCHARGE LOCATIONS AND VERIFY THAT PROPOSED DRAINAGE DESIGNS ARE ACCEPTABLE FROM A SLOPE STABILITY/EROSION PERSPECTIVE OR RECOMMEND APPROPRIATE MODIFICATIONS. **LEGEND** 

PROPOSED

509.3 #4 OAK

BL BLDG COR BOT

EUC E.V.A.E.

EX, (E) FC, FOC FF

GR GRAVEL GW INV

**EXISTING** - - EXISTING PROPERTY LINE BOUNDRY EXISTING STORM DRAIN DRAIN W/ MANHOLE --- EXISTING WATERLINE EXISTING CATCH BASIN ALL UTILITIES ARE APPROXIMATELY LOCATED

SS ---- SANITARY SEWER W/ MANHOLE STORM DRAIN W/ MANHOLE & CATCH BASIN WATER LINE W/ FIRE HYDRANT ₩ PH S.D.E. STORM DRAIN EASEMEN SANITARY SEWER EASEMENT

EXISTING TREE & ELEVATION (TREE NO. REFERS TO TREE IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP) **509.3 ≱3 DAK** INDICATES TREE TO BE REMOVED LEATHERWOOD BUSH

**EUCALYPTUS TREE** P.O.C. FDZ

FLOW-THROUGH PLANTER. PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

**ABBREVIATIONS** 

LENGTH
UNEAR FEET
UP OF GUTTER
NOT IN CONTRACT
OAK TREE
PEPPER TREE ASPHALTIC CONCRETE BAY LAUREL BUILDING CORNER BACK OF WALK CATCH BASIN PLANNEID DEVELOPMENT PINE TRIEE PUBLIC UTILITY EASEMENT CENTERLINE CHAIN LINK FENCE CORRUGATED METAL PIPE POLYMNIYL CHLORIDE PIPE REINFORCED CONCRETE PIPE CLEANOUT RDW RET WALL REDWOO'D TREE RETAINING WALL RIGHT OF WAY REDUCED PRESSURE BACKFLOW DECOMPOSED GRANITE DRAIN INLET DOMESTIC WATER RAIN WATER LEADER SLOPE STORM (DRAIN EXISTING GRADE EDGE OF PAVEMENT SDCE STORM IDRAIN CATCH BASIN SDCO SDDI SDMH STORM IDRAIN CLEANOUT EMERGENCY VEHICLE ACCESS STORM DRAIN DROP INLET EASEMENT STORM DRAIN MANHOLE EXISTING FACE OF CURB SANITARY SEWER EASTING
FACE OF CURB
FINISH FLOOR
FINISH FLOOR
FINISH GRADE
FLOW LINE
FENCE
FLOW THROUGH PLANTER
FIRE WATER
GRADE BREAK
GARAGE FINISH FLOOR
GAS METER
GROUND SHOT
GRATE
EDGE OF GRAVEL ROAD
GUY WIRE
INVERT
JOINT POLE SANITARY SEWER CLEAN OUT SANITARY SEWER MANHOLE TREE
TOP OF CURB
TOE OF SLOPE
TOP OF SLOPE
TOP OF WALL
TYPICAL
UTILITY BOX
VERTICAL CURVE
MITRIFIED CLAY PIPE
WATER
WATER WATER
WATER WALVE

BENCHMARK:

THE PROJECT BENCHMARK IS THE TOP OF AN IRON PIPE, IELEVATION OF 538.23, LOCATED WITHIN A MONUMENT BOX AT THE INTERSECTION OF THE CENTERLINES OF COBBLEHILL PLACE AND NEW BRUNSWICK DRIVE IN SAN MATEO, CALIFORNIA. THE ELEVATION SHOWN IN BASED UPON A SURVEY BY BKF ENGINEERS IN MARCH OF 2011 AND IS BASED UPON AN ASSUMED ELEVATION.

<u>BASIS OF BEARINGS:</u>

THE BEARING NORTH 76' 09' 00" EAST OF THE CENTERLINE OF COBBLE HILL PLACE AS SHOWN ON TRACT MAP NO. 723, THE HIGHLANDS, RECORDED ON AUGUST 26TH, 1955, IN VOLUME 43 OF

Know what's below. Call before you dig. PR CA 7-625 255 SHORELINE REDWOOD CITY, ( PHONE: (650) FAX: (650) 482



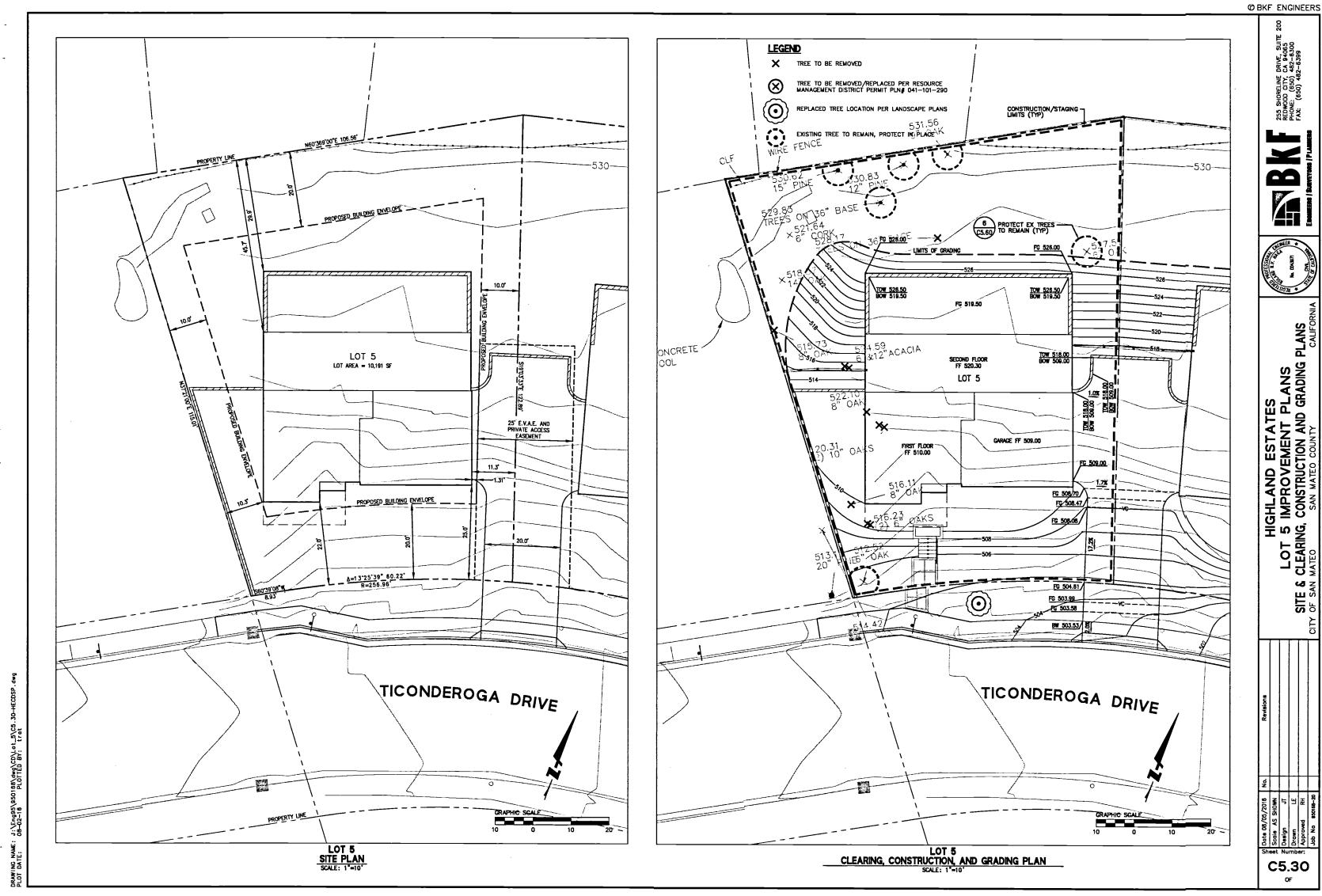


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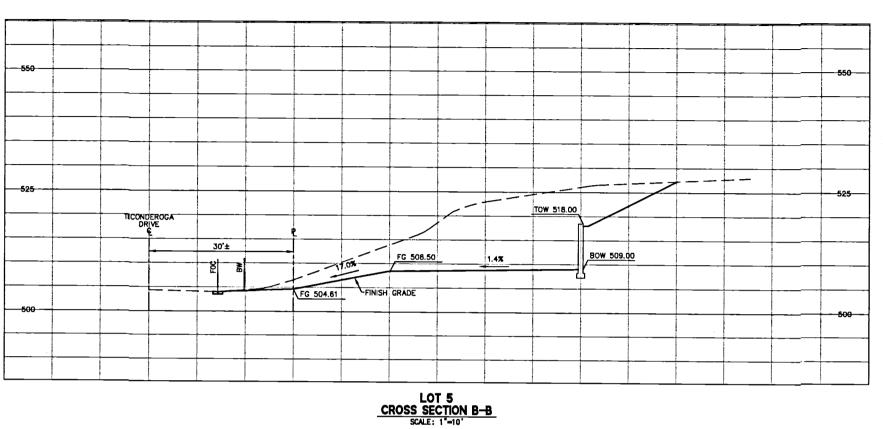
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255 SHORELINE DRIVE, SUITE REDWOOD CITY, CA 94065 PHONE: (650) 482-6300 FAX: (650) 482-6399

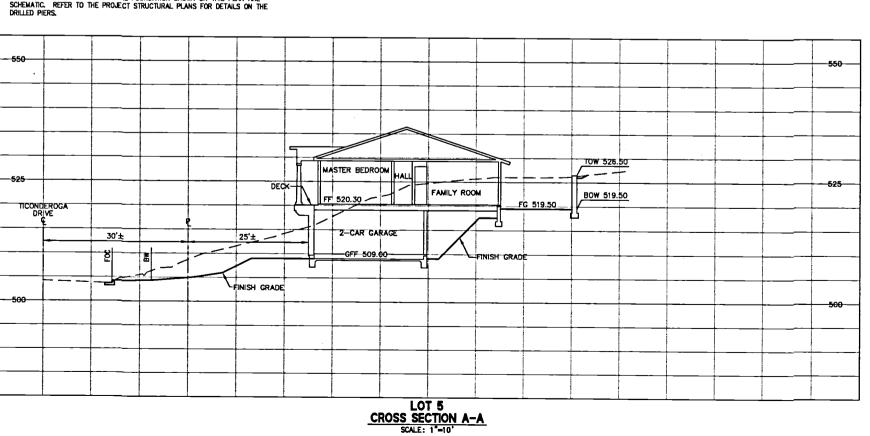
HIGHLAND ESTATES
LOT 5 IMPROVEMENT PLANS
UTILITY PLAN AND CROSS SECTION
MATEO SAN MATEO COUNTY

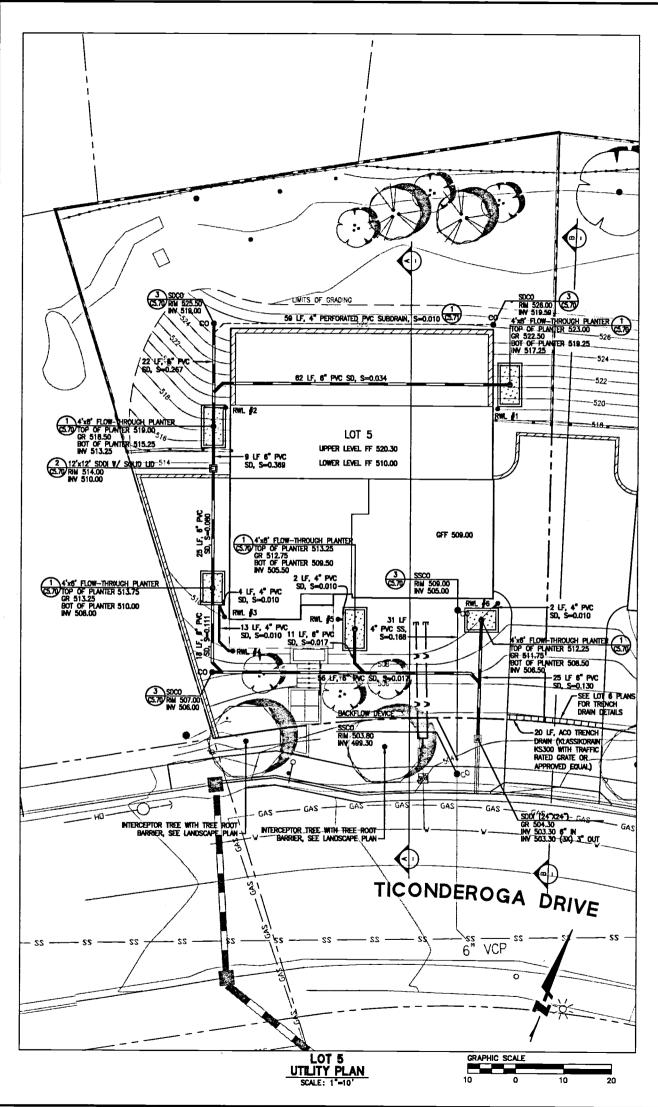
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#### NOTES:

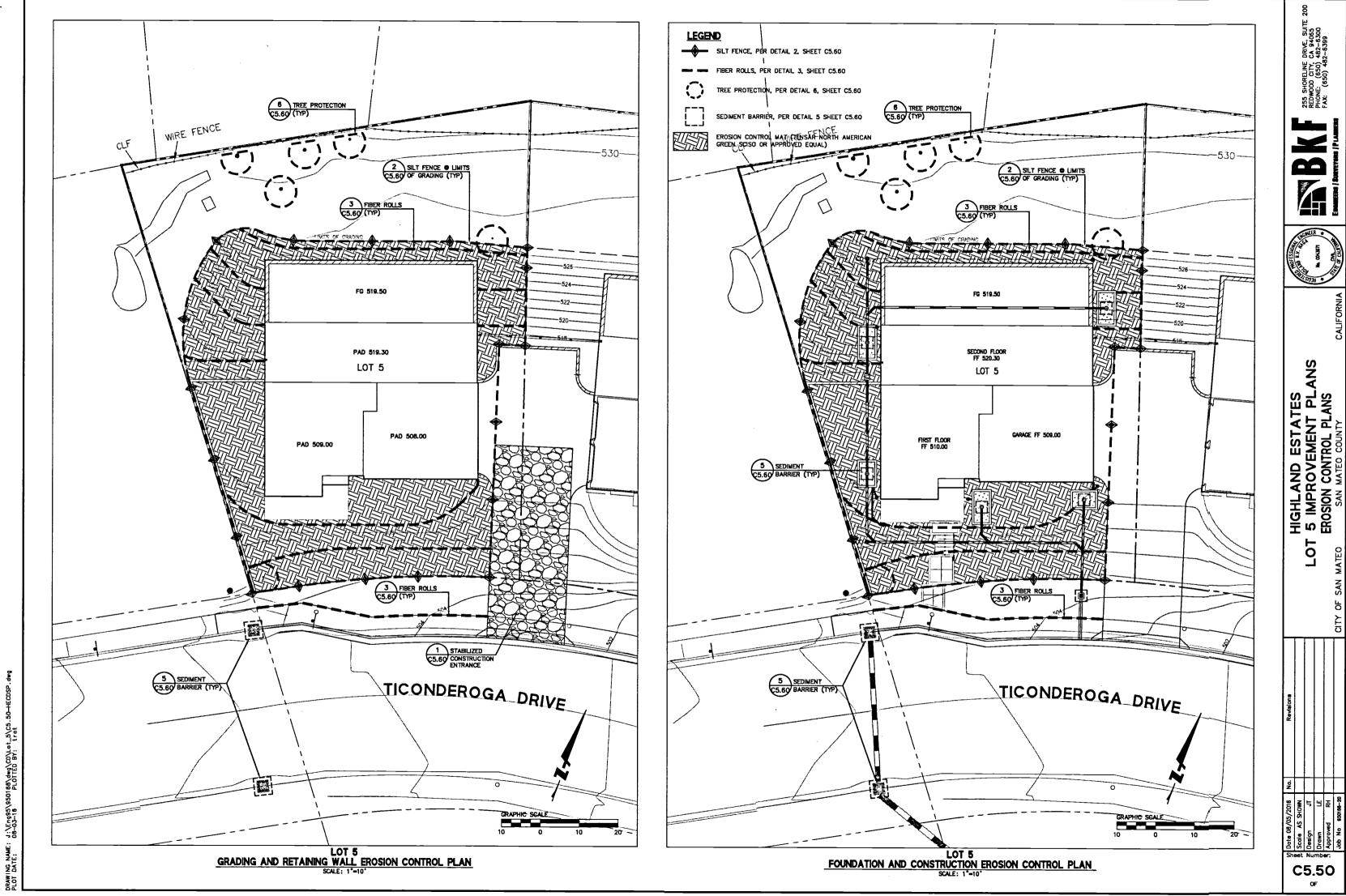
- PER THE GEOTECHNICAL REPORT, UNDOCUMENTED FILL WAS MAPPED AT LOT 5 AND IF THIS FILL IS TO BE LEFT IN PLACE DURING HOUSE AND DRIVEWAY GRADING, IT SHOULD BE REMOVED AND REPLACED AS PROPERLY COMPACTED ENGINEERED FILL
- PER THE GEOTECHNICAL REPORT, ALL EXISTING FILLS SHOULD BE COMPLETELY REMOVED FROM WITHIN PROPOSED HOUSE FOOTPRINT AND DRIVEWAY AREAS AND TO A LATERAL DISTANCE OF AT LEAST 2 FEET BEYOND THE EDGE OF THE MIPROVEMENTS. ANY EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
- PER THE GEOTECHNICAL REPORT, ALL BUILDING AND RETAINING WALLS SHOULD BE SUPPORTED ON DRILLED PIERS. THE FOUNDATION SHOWN ON THIS PLAN ARE SCHEMATIC. REFER TO THE PROJECT STRUCTURAL PLANS FOR DETAILS ON THE DRILLED PIERS.





J:\Eng95\950188\dwg\CD\Lot\_5\C5 08-03-16 PLOTTED BY: trat

ING NAME: DATE:



ØBKF ENGINEERS

F 28 2

THE INTENT OF THESE PLANS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONS PLAN UPDATES SHALL BE BASED UPON GENERAL SURVEY DATA EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS EQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING THE DOWNSTREAM DRAINAGE SYSTEM

THIS PLAN MAY NOT COVER ALL THE STRUCTURES THAT ARISE DURING THIS PLAN MAY NOT COVER ALL THE STILATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS, IN GENERAL, THE CONTRACTOR IS RESPONSBLE FOR KEEPING THE STORM RUN OFF FROM LEAVING THE SITE, FIBER ROLLS, SAND BASS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEIDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM MRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.

THE CONTRACTOR WILL BE LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADNIG ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPLIED ON ANY ZUBLIC ROAD ON THE HAUR ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

6. BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.

7. DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.

ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON. ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.

THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY, THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF (LIDER TECHNOLOGIES, SHALL BE REQUIRED TO USE

10. THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER ECHNOLOGIES, SHALL USE EMULSIFIED FUELS.

FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARSE TRICKS, VEHICLES SHALL BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.

12. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.

COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

Pave, apply water three times daily, or apply non-toxic soil stabilizers on all unpaved access roads, parking areas, and staging areas at the construction sites.

SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.

18. SWEEP PUBLIC STREETS ADJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL NATERIAL IS CARRIED ONTO THE STREETS.

17. HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).

TEMPORARY AND PERMANEN' SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASURES ARE USED.

19. SEED MIX FOR REVEGETATION AND HYDROSEEDING

NORTHERN CALIFORNIA COVER MIX BY ACBRIGHT OR FOUAL 30% BLUE WILDRYE

20% ZORRO FESCUE 10% PURPLE NEEDLE GRASS 10% CALIFORNIA NATIVE WIDFLOWERS

APPLY AT 40 POUNDS PER ACRE MINIMUM

20. ENGLOSE, COVER, WATER TWOSE DAILY OR APPLY NON-TOYIC SOIL BINDERS TO

EXPOSED STOCKPILES (DIRT, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAYED ROADS TO 15 MILES PER HOUR.

21. DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD. WHEN MATERIAL IS STOCKPILED, IT SHALL BE SURROUNDED BY A SILT FENCE/FIBER ROLLS.

22. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR.

23. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWA'S.

24. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.

25. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.

26. INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.

27. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES FER HOUR.

28. NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 30) TO AVOID POTENTAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO

29. STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCTOBER 15 AND APRIL 30. STABILIZING SHALL INCLIDE BOTH PROACTIVE MEASURES, SUCH AS THE PLACEMENT OF STRAW BALES OR COIR NETTING, AND PASSIVE MEASURES, SUCH AS MINIMIZING VEGETATION REMOVAL AND REVEGETATING DISTURBED AREAS WITH VEGETATION THAT IS COMPATIBLE WITH THE

STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORNWATER.

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15 AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

 CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUITING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.

32. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.

33. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.

34. DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE

35. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.

36. PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER

37. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.

38. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.

39. ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS. EQUIPMENT AND MATERIALS ON THE SITE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROPECT THE COURSE OF THE PROJECT.

40. A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE REGIONAL

41. IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN

42. PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPOILS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCIRCLED BY SILT FENCES/FIBER ROLLS.

43. STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE.

44. HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.

GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.

46. EROSION CONTROL POINT OF CONTACT: NOCL CHAMBERLAIN, NEXGEN BUILDERS INC. 225 DEMETER STREET EAST PALO ALTO, CA 94303 DEMETER A 650, 200 5000

47. SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.

48. AREAS DELINEATED ON PLANS FOR PARKING, CLEARING & GRUBBING, STORAGE, ETC.

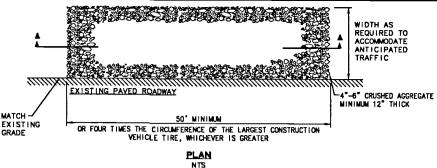
49. CONSTRUCTION SITES ARE REQUIRED TO HAVE EROSION CONTROL MATERIALS ON-SITE DURING THE "OFF-SEASON."

50. DUST CONTROL IS REQUIRED YEAR-ROUND.

51. EROSION CONTROL MATERIALS SHALL BE STORED ON-SITE.

52. USE OF PLASTIC SHEETING BETWEEN OCTOBER 1ST AND APRIL 30TH IS NOT ACCEPTABLE, UNLESS FOR USE ON STOCKPILES WHERE THE STOCKPILE IS ALSO PROTECTED WITH FIBER ROLLS CONTAINING THE BASE OF THE STOCKPILE,

TREE PROTECTION SHALL BE IN PLACE BEFORE ANY GRADING, EXCAVATING OR GRUBBING IS STARTED.



4"-6" CRUSHED -\
AGGREGATE 12° MIN. -GEO-TEXTILE FABRIC SECTION A-A

#### NOTES:

ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO
PUBLIC RICHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR
AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC
RICHT-OF-WAYS SHALL BE REMOVED IMMEDIATELY.

WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR

3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 4" TO 6" STONE.

4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".

5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

6. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.

PONDING HT

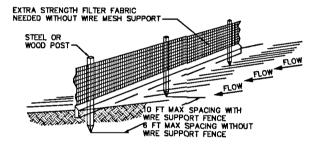
RUNOFF

4"x6" TRENCH WITH COMPACTED

BACKFILL

STANDARD DETAIL





FILTER FABRIC
ATTACH SECURELY

TO UPSTREAM SIDE OF POST.

INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE DEPOMANUALLY STRUMENT.

TO MAXIMIZE PONDING EFFICIENCY.

3. SILT FENCE SHALL BE PLACED ON SLOPE

PONDING HT RUNOFF

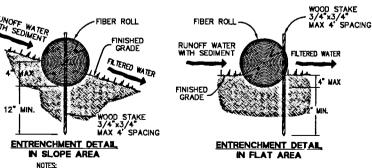
ALTERNATE DETAIL



9" MAX.

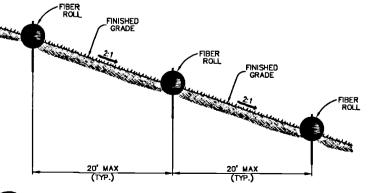
(RECOMMENDED)

STORAGE HT.

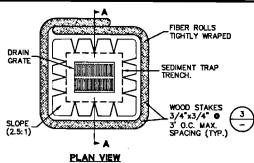


FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3<sup>1</sup> TO 4<sup>4</sup> DEEP, DUG ON CONTOUR.
 ADJACENT ROLLS SHALL TIGHTLY ABUT.
 RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.





FIBER ROLL INSTALLATION ON SLOPE (TIME FRAME: BETWEEN FINAL PAVING OPERATIONS AND PROJECT COMPLETION)



PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH BASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. (FIBER ROLLS ARE
TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING, THEY ARE AIPPROX, 8" DIA, AND 20 - 30 FT. LONG.)

FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" - 4" DEEP, DUG ON CONTOUR. RUNOFF, MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INIET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.



DROP

SECTION A-A

\_12°=1 |=

PONDING HEIGHT

STRAW FIBER ROLLS

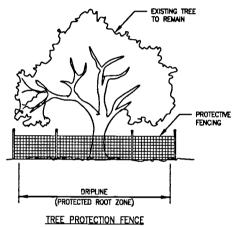
۶°-

AREA DRAINS — BETWEEN AREA DRAIN INSTALLATION AND PROJECT COMPLETION CURB INLETS — BETWEEN CURB INLET INSTALLATION AND FINAL PAYING OPERATIONS)

EMBED FIBER
ROLL 3"-4"
INTO SOIL.

PROVIDE 1' WIDE BY 6"

TRENCH AROUND INLET.



NOTES:

1. THE APPLICANT SHALL ESTABLISH AND MAINTAIN TRE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.

2. TREE PROTECTION ZONES SHALL BE DELINEATED USING 4-FOOT TALL ORANGE PLASTIC FENCING SUPPORTED BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPLINES AS POSSIBLE WHILE STILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE.

THE APPLICANT SHALL MAINTAIN TREE PROTECTION ZONES FREE OF EQUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THESE: AREAS.

SHOULD ANY LARGE ROOTS OR LARGE MASSES OF ROOTS NEED TO BE CUT, THE ROOTS SHALL BE INSPECTED BY A CRITIFIED ARBORIST OR REGISTERED FORESTER PRIOR TO CUTTING. ANY ROOT CUTTING SHALL BE MONITORED BY AN ARBORIST OR FORESTER AND DOCUMENTED).

5. ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS.

NORMAL IRRIGATION SHALL BE MAINTAINED, BUT OAKS SHOULD NOT NEED SUMMER IRRIGATION.

7. THE ABOVE INFORMATION SHALL BE ON-SITE AT ALL TIMES.



TREE PROTECTION FENCE

## CALIFORNIA STORMWATER QUALITY ASSOCIATION ICASQAJ STANDARD DETAIL REFERENCES

(CALIFORNIA STORMWATER BMP HANDBOOK CONSTRUCTION, DATED NOVEMBER 2009)

NOTE: ALTHOUGH SPECIFIC LOCATIONS FOR SPECIFIC BMPS ARE SHOWN ON THESE PLANS, IT IS INTENDED FOR THE CONTRACTOR TO APPLY APPROPRIATE BMPS WHEN NECESSARY TO MEET FIELD CONDITIONS.

#### EROSION CONTROL BMPS:

SCHEDULING PRESERVATION OF EXISTING VEGETATION
HYDRAULIC MULCH
HYDROSEEDING

HYDROSEDING
SOIL BINDERS
STRAW MULCH
GEOTEXTILES & MATS
WOOD MULCHING
EARTH DIKES AND DRAINAGE SWALES
VELOCITY DISSIPATION DEVICES
SLOPE DRAINS
STREAMBANK STABILIZATION
COMPOST BLANKETS
SOIL PREPARATION ARQUICHENING

EC-15 SOIL PREPARATION/ROUGHENING EC-16 NON-VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL BMPS:

SILT FENCE SEDIMENT BASIN SEDIMENT TRAP CHECK DAM

FIRER ROLLS GRAVEL BAG BERM STREET SWEEPING AND VACUUMING STRAW BALE BARRIER

STORM DRAIN INLET PROTECTION ACTIVE TREATMENT SYSTEMS SE-12 TEMPORARY SILT DIKE SE-13 COMPOST SOCKS AND BERMS SE-14 BIOFILTER BAGS

WIND EROSION CONTROL BMPS:

WE-1 WIND EROSION CONTROL

TEMPORARY TRACKING CONTROL BMPS:

TC-1 STABILIZED CONSTRUCTION

ENTRANCE/EXIT STABILIZED CONSTRUCTION ROADWAY TC-3 ENTRANCE/OUTLET TIRE WASH

#### NON-STORMWATER MANAGEMENT BMPS:

WATER CONSERVATION PRACTICES

WATER CONSERVATION FRANCISCO
DEWATERING OPERATIONS
PAVING AND GRINDING OPERATIONS
TEMPORARY STREAM CROSSING

CLEAR WATER DIVERSION
LUICIT CONNECTION/DISCHARGE
POTABLE WATER/RRICATION
VEHICLE AND EQUIPMENT CLEANING
VEHICLE AND EQUIPMENT FUELING
VEHICLE AND EQUIPMENT MAINTENANCE

PILE DRIVING OPERATIONS CONCRETE CURING NS-13 CONCRETE FINISHING NS-14 MATERIAL AND FOUIPMENT LISE

NS-15 DEMOLITION ADJACENT TO WATER
NS-16 TEMPORARY BATCH PLANTS WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL BMPS:

MATERIAL DELIVERY AND STORAGE MATERIAL USE

MATERIAL USE STOCKPILE MANAGEMENT SPILL PREVENTION AND CONTROL SOLIO WASTE MANAGEMENT HAZARDOUS WASTE MANAGEMENT CONTAMINATED SOIL MANAGEMENT

CONTAMINATED SUIL MANAGEMENT CONCRETE WASTE MANAGEMENT SANITARY/SEPTIC WASTE MANAGEMENT LIQUID WASTE MANAGEMENT

255 SHORELINE L REDWOOD CITY, C PHONE: (650) 4 FAX: (650) 482



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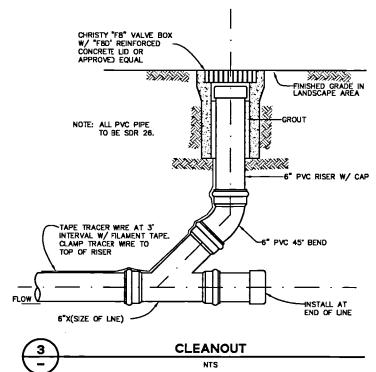
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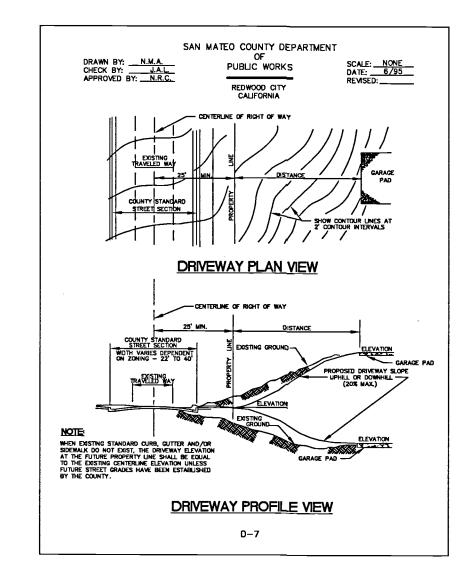
68\dwg\CD\Lot\_5\C5 PLOTTED BY: trat J:\Eng95\9501 07-29-16 NG NAME: DATE:

C5.70

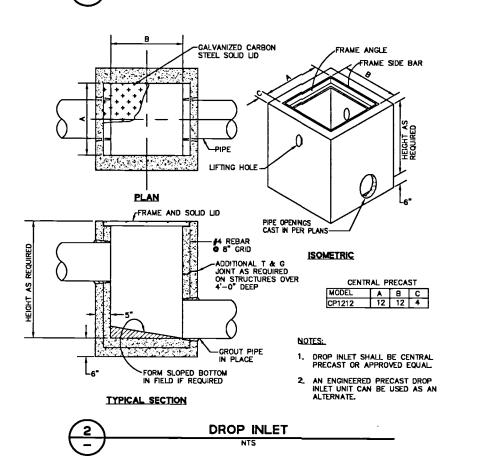
SAN MATEO COUNTY DEPARTMENT SCALE: NONE DATE: 6/95 REVISED: DRAWN BY: N.M.A.
CHECK BY: R.O.
APPROVED BY: N.R.C. PUBLIC WORKS REDWOOD CITY CALIFORNIA OVERFLOW DEVICE LOCATION OF DEVICE TO APPROVAL OF DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION BACKFLOW DEVICE OVERFLOW AND BACKFLOW DEVICE DETAIL C-9

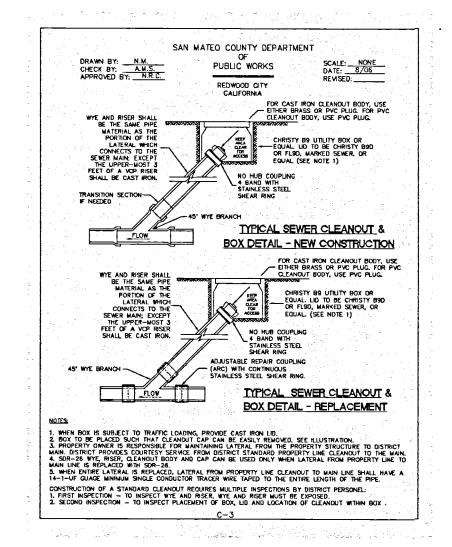
SAN MATEO COUNTY OVERFLOW AND BACKFLOW DEVICE DETAIL



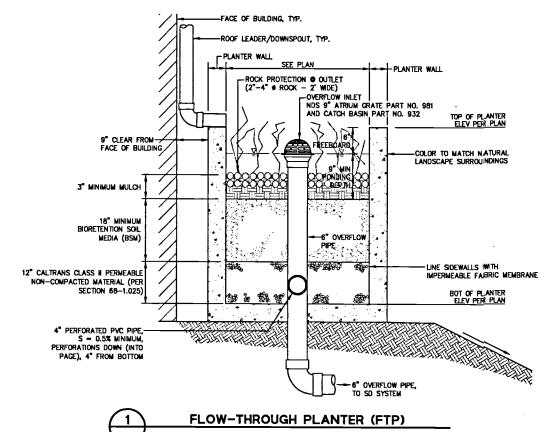


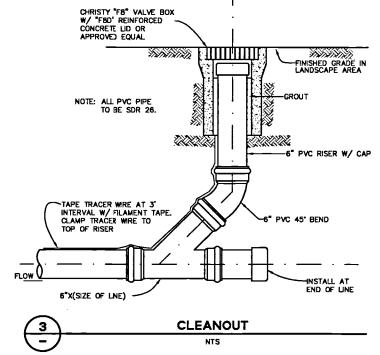
SAN MATEO COUNTY 5 DRIVEWAY PLAN AND PROFILE VIEWS











J:\Eng95\950188\d\*g\CD\Lot\_5\C5 07-28-18 PLOTTED BY: trat

NG NAME: DATE:

#### NOTES

1. SAND... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

 SIEVE SIZE
 % PASSING SIEVE

 No. 4
 100

 No. 200
 0-5

 STRUCTURE BACKFILL MATERIAL... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

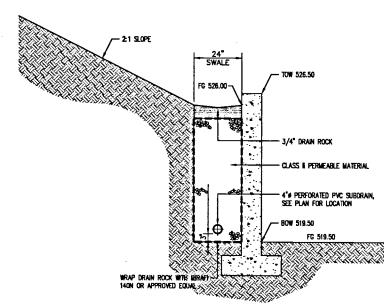
 BACKFILL MATERIAL... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL
AND BEDDING DETAIL

W-10

SAN MATEO COUNTY
STANDARD TRENCH BACKFILL & BEDDING DETAIL

NTS



<del>1</del>

SUBDRAIN

DRAWING NAME: J:\Eng95\950188\dwg\CD\Lot\_5\C5.71-HECDDT.DWG PLOT DATE: 07-29-16 PLOTTED BY: trot

\_\_\_\_\_\_

255 SHORELINE DRIVE, SUITE 2 REDWOOD CITY, CA 94065 PHONE: (650) 482-6330 FAX: (650) 482-6399

BKF



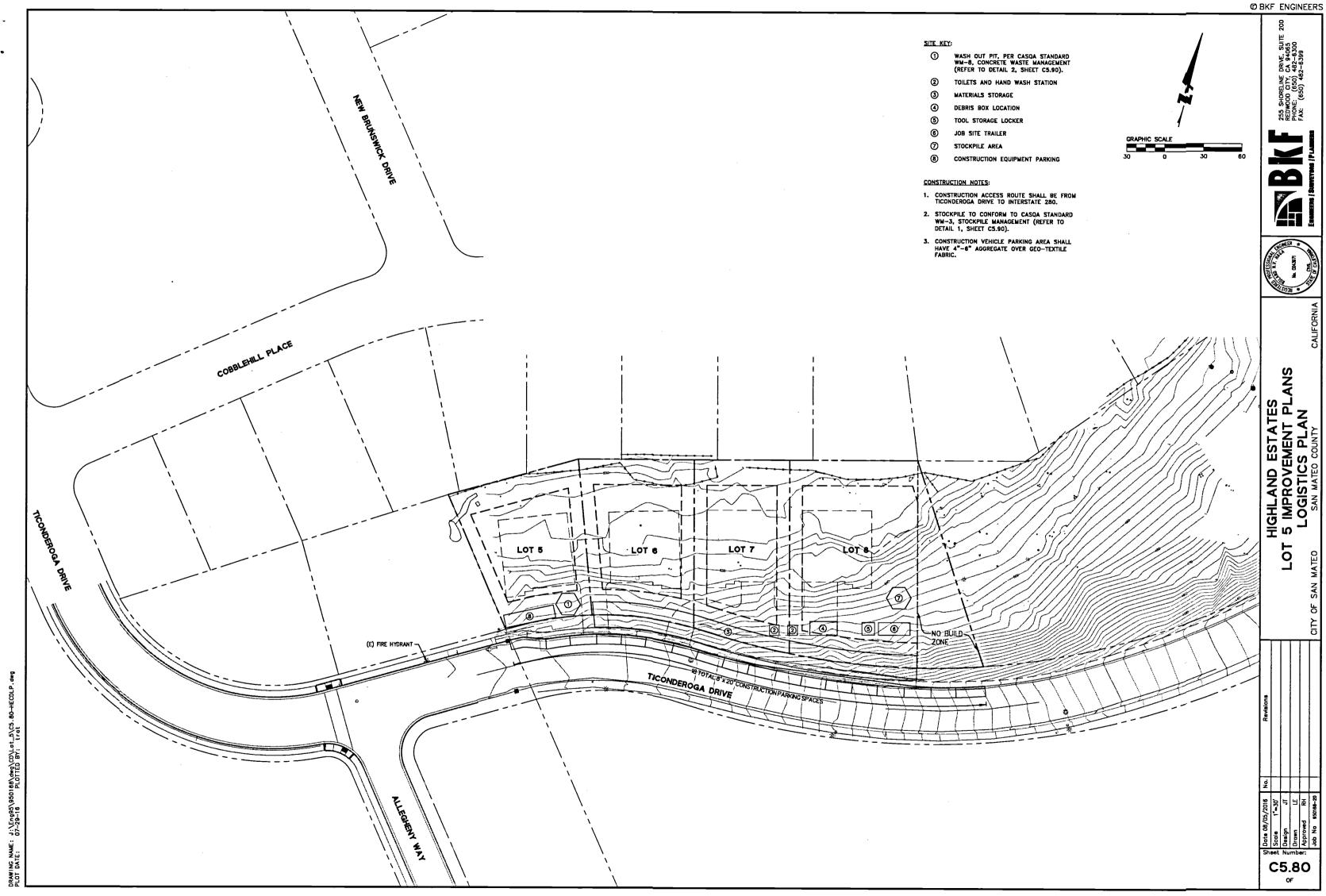
CALIFORNIA

HIGHLAND ESTATES
LOT 5 IMPROVEMENT PLANS
CONSTRUCTION DETAILS
MATEO SAN MATEO COUNTY

Revisions

Scale AS SHOWN
Design LT
Approved RH
Job No stories-20

C5.71



DRIVE, SUIT CA 94065 482-6300 32-6399

255 SHORELINE C REDWOOD CITY, C PHONE: (650) 4 FAX: (650) 482

Targeted Constituents

Oil and Grease

Description and Prurpose

Description and Prurpose
Stockpile management procedures and practices are designed to reduce or eliminate cair and stormwater pollution from stockpiles of soil, soil ammendments, sand, paving materials such as portland coment connecte (PCC) rubble, asphalt concerte (AC), asphalt concerte i rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt munder (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications

Implement in all projeccts that stockpile soil and other loose materials.

Limitations

Plastic sheeting as to stockpile protection is temporary and hard to manage in windy conditions. Where plastic is used, consider use of plastic targe with nylon reinforcement which may be moree durable than standard sheeting.

Plastic sheeting carn increase runoff volume due to lack of infiltration and potentially cause perimeter control failure

Plastic sheeting breaaks down faster in sunlight.

The use of plastic materials should be avoided when feasible and photodegradab; le plastics should not be used.

Implementation
Protection of stockpiless is a year-round requirement. To properly manage stockpiles:

CASQA

**Concrete Waste Management** 

MIN

Stockpile Management

On larger sites, a minimum of 56 ft separation from concentrated flows of stormwater, drainage courses, and inlets is recommended.

All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.

Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost berms (SE-1), temporary silt dileas (SE-1), filter rolls (SE-5), silt fences (SE-1), sandbags (SE-8), gravel bags (SE-6), or biofilter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.

Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WE-1, Wind Erosion Control.

Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil

Place bagged materials on pallets and under cover.

Ensure that stockpile coverings are installed securely to protect from wind and rain.

Some plastic covers withstand weather and sunlight better than others. Select covermaterials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles

Non-active stockpiles of the identified materials should be protected further as follows:

Cover and project soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.

 Consider temporary vegetation for topsoil piles that will be stockpiled for extended periods. Stockpiles of Portland coment concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub-base

Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at

Stockpiles of "cold mix"

Cover cold mix stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm all times.

Stockpiles of fly ash, stucco, hydrated lime

WM-8

HLASTIC LINKS

ASTENED AROUND TIRE PERMETER WITH HO STAKES

ACTUAL LAYOUT DETERMINED

Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with
plastic and surround the stockpiles with a berm at all times.

#### **Stockpile Management**

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniacal

Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

Protection of Active Stockpiles

- Inspection and Maintenance

  Stockpiles must be inspected in accordance with General Fermit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
- Sediment shall be removed when it reaches one-third of the barrier height.

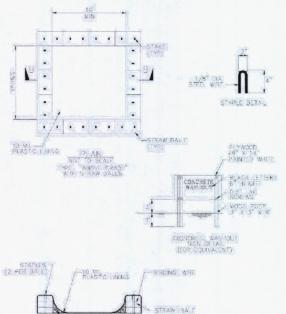
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (California), March 2003.

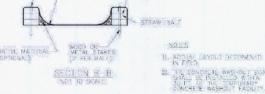
**WM-8** 

## WM-3 - STOCKPILE MANAGEMENT

## **Concrete Waste Management**

**WM-3** 





WM-8 - CONCRETE WASTE MANAGEMENT

**WM-3** 

Active stockpiles of the identified materials should be protected as follows:

All stockpiles should be covered and protected with a temporary linear sediment barrier prior to the onset of precipitation.

Stockpiles of "cold mix" and treated wood, and basic materials should be placed on and
covered with plastic sheeting or comparable material and surrounded by a berm prior to the
onset of precipitation.

The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

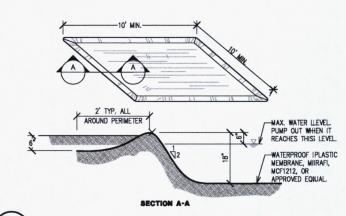
For cost information associated with stockpile protection refer to the individual erosion or sadiment control BMP fact sheet considered for implamentation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

- Repair and/or replace perimeter controls and covers as needed to keep them functioning

WATERPROOF PLASTIC MEMBRANE-SECURE WITH ANCHORS OR WEIGHTS TO PREVENT WIND OR RAIN FROM DISTURBING STOCKPILE STACKED GRAVEL BAGS PLACED AROUND THE BASE OF STOCKPILE

STOCKPILE COVERING

(PER CASQA STANDARD WM-3, STOCKPILE MANAGEMENT, SEE LEIFT)



TEMPORARY WASHOUT PIT (PER CASQA STANDARD WM-8, CONCRETE WASTE MANAGEMENT, SEE LEFT) 동

HIGHLAND ESTATES
T 5 IMPROVEMENT PLANS
SQA STANDARD DETAILS
SAN MATEO COUNTY

CA

C5.90

NG NAME: DATE:

# IMPROVEMENT PLANS FOR

# HIGHLAND ESTATES - LOT 6 TICONDEROGA DRIVE

COUNTY OF SAN MATEO, CALIFORNIA

#### SHEET INDEX

DESCRIPTION

GENERAL NOTES, LEGEND AND ABBREVIATIONS

SITE AND CLEARING, CONSTRUCTION AND GRADING PLANS C6.30

C6.40

C6.50 EROSION CONTROL PLANS

C6.60 EROSION CONTROL DETAILS AND NOTES

CASQA STANDARD DETAILS

C6.71

C6.80 LOGISTICS PLAN

C6.70

C6.90

#### **EARTHWORK**

1,400 CY 0 CY 1,400 CY CUT

#### EARTHWORK NOTES:

- THE QUANTITIES SHOWN ABOVE EXCLUDE EARTHWORK FROM GEOTECHNICAL SLOPE REMEDIATION ACTIVITIES PER CONDITION OF APPROVAL ITEM NO. 4.M, INCLUDING EARTHWORK SWELLING AND SHRINKAGE FACTORS ASSOCIATED WITH GEOTECHNICAL SLOPE REMEDIATION MITIGATION.
- 2. THE EARTHWORK QUANTITIES SHOWN ABOVE ARE IN-PLACE QUANTITIES AND HAVE BEEN ESTIMATED BY THE ENGINEER WITH THE FOLLOWING ASSUMPTIONS:
- A. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPINGS.
- A EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SITE STRIPINGS.

  B. THE UNIT FAD SECTION IS ASSUMED TO BE A 12" THICK CONCRETE SECTION.

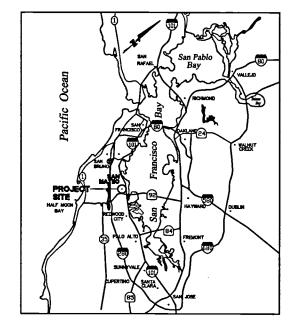
  C. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR FILL SHRINKAGE FACTORS.

  D. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR UTILITY TRENCHING AND SPOILS.

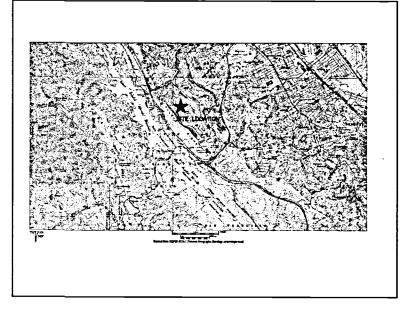
  E. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR SOIL STABILIZATION FACTORS AND LANDSCAPING PLANTING SOILS.

  F. EARTHWORK QUANTITIES DO NOT ACCOUNT FOR RETAINING WALLS AND BUILDING FOOTINGS AND BACKFILL.

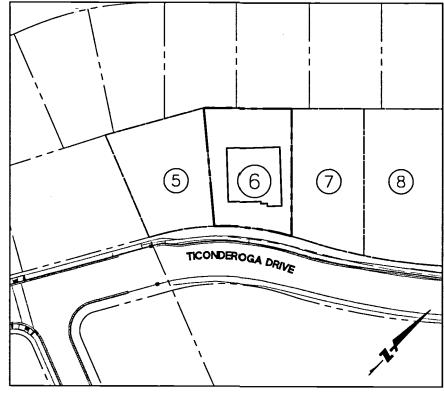
- ACTUAL QUANTITIES MAY VARY DUE TO FIELD CONDITIONS OR CONSTRUCTION TECHNIQUES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES BASED UPON APPROVED PLANS AND INDEPENDENT CALCULATIONS.



VICINITY MAP



LOCATION MAP



### PROJECT DATA

LOT AREA: EXISTING LAND USE: PROPOSED USE: EXISTING ZONE: PROPOSED ZONE: PROPOSED USE:

DEVELOPER:

UNDEVELOPED LAND RESIDENTIAL (LOT 6) RMD - RESOURCE MANAGEMEN'T DISTRICT

1 RESIDENTIAL LOT TICONDEROGA PARTNERS, A CALLIFORNIA LIMITED LIABILITY CORPORATION

C/O THE CHAMBERLAIN GROUP 855 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595—5582 ATTN: JACK CHAMBERLAIN THE CHAMBERLAIN GROUP 655 SKYWAY, SUITE 230 SAN CARLOS, CA 94070 (650) 595-5582 ATTN: JACK CHAMBERLAIN

BKF ENGINEERS 255 SHORELINE DRIVE, SUITE 2:00 REDWOOD CITY, CA 94065 CIVIL ENGINEER: (650) 482-6300

CORNERSTONE EARTH GROUP 1259 OAKMEAD PARKWAY SUNNYVALE, CA 94085 (408) 245-4600 GEOTECHNICAL ENGINEER: CAL WATER SERVICE 341 N. DELAWARE STREET SAN MATEO, CA 94401-1808

(650) 343-1808 CITY OF SAN MATEO & CRYSTAL SPRINGS COUNTY SANITATION DISTRICT SEWAGE DISPOSAL:

TELEPHONE:

CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION

COMCAST STORM DRAINAGE:

COUNTY OF SAN MATEO CITY OF SAN MATEO TOPOGRAPHIC BASE MAP:

AERO-GEODIC COROP.
JOB NO. 950168
DATE OF PHOTOGRAPHY 9/18/87 EROSION CONTROL POINT OF CONTACT:

NOEL CHAMBERLAIN, NEXGEN BIUILDERS INC.
225 DEMETER STREET
EAST PALO ALTO, CA 94303
PHONE # (650) 322-5800
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#### **ENGINEER'S STATEMENT**

ROLAND N.V. HAGA R.C.E NO. 43971 BKF ENGINEERS

255 SHORELINE DRIVE, SUITE ; REDWOOD CITY, CA 94065 PHONE: (650) 482-6300 FAX: (650) 482-6399

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SITE PLAN

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2. PERFORM WORK IN CONFORMANCE WITH THE RECOMMENDATION OF THE PROJECT PERFORM WORK IN CONFURNANCE WITH THE NECOMMENDATION OF THE PROJECT GEOTECHNICAL ENGINEERING REPORT THILD "UPDATED GEOTECHNICAL INVESTIGATION, HIGHLAND ESTATES LOTS 5 THROUGH 11, TICONDEROGA DRIVE/COBBLEHILL PLACE/COWPENS WAY, SAN MATEO COUNTY, CALIFORNIA" PREPARED BY CORNERSTOKE EARTH, GROUP, DATED OCTIOBER 30, 2015. GRADING WORK WILL BE SUBJECT TO APPROVAL OF GEOTECHNICAL ENGINEER.

ARRANCE FOR REQUIRED INSPECTIONS BY COUNTY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANCE FOR REQUIRED COUNTY INSPECTIONS IN ADVANCE. PROVIDE NOTICE TO COUNTY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.

REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY ENGINEER, WHO WILL OBTAIL APPROVAL FROM COUNTY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS, WHICH SHALL BE REVIEWED AND APPRO AND COUNTY ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.

REPLACE OR REPAIR EXISTING UTILITIES, IMPROVEMENTS OR FEATURES DAMAGED, REMOVED, OR DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION, WHETHER SHOWN ON PLANS OR NOT.

6. REPLACE STREET MONUMENTS, LOT CORNERS PIPES AND OTHER PERMANEN MONUMENTS DISTURBED DURING CONSTRUCTION, MONUMENTS SHALL BE SET BY A SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

PREPARE TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM COUNTY ENGINEER BEFORE COMMENIGN WORK PROVIDE FLAG MEN, CONES, BARRICADES AND OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROVIDE SAFE LANE CLOSURE IN CONFORMANCE WITH CALTRANS STANDARDS AND AS APPROVED BY COUNTY

8. PEDESTRIAN TRAFFIC CONTFOL TO BE PROVIDED WHEN EXISTING SIDEWALKS CANNOT BE MAINTAINED DURING CONSTRUCTION.

9. DO NOT LEAVE TRENCHES OPEN OVERNIGHT IN EXISTING STREET AREAS. BACKFILL OR COVER OPEN TRENCHES AT THE END OF WORK EVERY WORK DAY.

10. PREPARE SHORING PLAN AND SUBMIT TO THE COUNTY ENGINEER FOR REVIEW AND APPROVAL. ADEQUATELY SHORE EXCAVATIONS TO PREVENT EARTH FROM SUIDING OR SETTLING AND TO PROTECT EXISTING ADJACENT IMPROVEMENTS FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE SHORING IN CONFORMANCE WITH APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND OSHA WHERE EXCAVATIONS ARE 5 FEET OR MORE IN DEPTH.

. IMPLEMENT CONSTRUCTION BUST CONTROL MEASURES TO REDUCE PARTICULATE CENERATION TO A LESS THAN SIGNIFICANT LEVEL PROVIDE DUST CONTROL IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT MINIMUM REQUIREMENTS. IMPLEMENT THE FOLLOWING CONSTRUCTION PRACTICES EXCEPT WHEN IT IS RAINING.

11.A. WATER ACTIVE EXTERIOR SOIL AREAS AT LEAST TWICE DAILY.

11.B. COVER TRUCKS HAULIN3 SOIL, SAND AND OTHER LOOSE MATERIAL OR PROVIDE 2 FEET OF FREEBOARD.

PAVE, APPLY WATER THREE TIMES DAILY OR APPLY NON-TOXIC SOIL STABILIZER ON UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING

11.D. SWEEP PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS DAILY.

11.E. APPLY HYDROSEED OR NON-TOXIC SOIL STABILIZER TO INACTIVE

11.F. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON-TOXIC SOIL STABILIZER TO EXPOSED SOIL STOCKPILES.

11.G. INSTALL SANDBAGS AND OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

11.H. LIMIT TRAFFIC SPEED ON UNPAVED ROADS TO 15 MPH.

11.L REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.

KEEP STREETS CLEAN OF DRT, MUD AND OTHER CONSTRUCTION DEBRIS. CLEAN AND SWEEP STREETS ON A DAILY BASIS DURING THE WORK WEEK.

13. SHOULD IT APPEAR THAT THE WORK IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN CONSTRUCTION DOCUMENTS, NOTIFY ENGINEER AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK IN QUESTION.

CONSTRUCTION STAKING SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

15. IF BKF ENGINEERS IS RETAILED TO PROVIDE CONSTRUCTION STAKING SERVICES, CONTRACTOR WILL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED. RESTAKING SHALL BE AT CONTRACTOR'S EXPENSE.

16. MATCH EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALK, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH SMOOTH TRANSITION TO AVOID ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.

. WSIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND OVERALL PROJECT REQUIREMENT PRIOR TO BIDDING PROJECT.

18. OBTAIN AND PAY FOR PERMITS AND LICENSES AS REQUIRED TO PERFORM WORK WITHIN THE COUNTY OF SAA MATEO PRIOR TO START OF WORK. PERMITS MAY INCLUDE ENCROACHMENT PERMIT FOR WORK WITHIN COUNTY RIGHT-OF-WAY AND GRADING/UTILITY PERMIT.

CONTRACTOR IS RESPONSIBLE FOR TRAFFIC AND PEDESTRIAN CONTROL DURING CONSTRUCTION.

OBTAIN APPROVAL OF IMPORT SOIL MATERIAL FROM GEOTECHNICAL ENGINEER PRIOR TO DISTRIBUTING MATERIAL OVER SITE.

21. PROTECT ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS. STREETS AND OTHER FEATURES FROM DAMAGE BY CONTRACTOR'S OPERATIONS.
REPAIR, REPLACE OR CLEAN ADJOINING PREMISES, TREES, LANDSCAPING, UTILLITIES,
SIDEWALKS, STREETS AND OTHER FEATURES TO SATISFACTION OF OWNER.

22. MAINTAIN AND MANAGE CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES AT

NOTIFY COUNTY ENGINEER A MINIMUM OF 24 HOURS PRIOR TO STARTING WORK ON OFF-SITE DRAINAGE AND SEWER FACILITIES, GRADING, PAVING, OR WORK IN THE COUNTY RIGHT-OF-WAY.

24. MAKE EFFORTS TO MINIMIZE CONSTRUCTION NOISE.

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24.A. MAINTAIN EQUIPMENT USED ON SITE IN GOOD MECHANICAL CONDITION TO MINIMIZE NOISE CREATED BY FAULTY OR POORLY MAINTAINED ENGINE, DRIVE-TRAIN AND OTHER COMPONENTS.

24.B. EQUIPMENT EXCEEDING 110 DBA MEASURED 25 FEET FROM THE PIECE OF EQUIPMENT WILL NOT BE ALLOWED ON SITE.

24.C. SELECT APPROPRIATE EQUIPMENT TO MINIMIZE NOISE GENERATION. USE THE FOLLOWING TECHNIQUES TO MINIMIZE NOISE GENERATION SUBJECT TO EQUIPMENT AVAILABILITY AND COST CONSIDERATIONS. USE SCRAPERS AS MUCH AS POSSIBLE FOR EARTH REMOVAL, RATHER THAN NOISIER LOADERS AND HAUL TRUCKS. USE BACKHOES FOR BACKFILLING AS IT IS QUIETER THAN DOZERS OR LOADERS. USE MOTOR GRADERS RATHER THAN BULLDOZERS FOR ENAL GRADING.

B EXISTING CONDITIONS

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED UPON A FIELD TOPOGRAPHIC SURVEY OF THE PROJECT SITE BY BKF ENGINEERS, DATED JUNE 2009. ACTUAL CONDITIONS ENCOUNTERED ON SITE MAY VARY FROM THOSE SHOWN ON THE PLANS. CONTRACTOR SHALL REVIEW CONSTRUCTION DOCUMENTS AND CONDUCT THEIR OWN INVESTIGATIONS TO UNDERSTAND AND VERIFY EXISTING

EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WERE TAKEN FROM RECORD INFORMATION KNOWN TO THE ENGINEER AND FIELD SURVEY OF ABOVE GRADE FEATURES. THESE PLANS ARE NOT MEANT TO BE A FULL CATALOG OF EXISTING SUBSURFACE CONDITIONS. CONDUCT FIELD INVESTIGATION TO VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON PLANS OR NOT, PRIOR TO START OF EXCAVATION. IF DISCREPANCES BETWEEN EXISTING CONDITIONS AND THESE PLANS ARE DISCOVERED, NOTIFY ENGINEER IMMEDIATELY AND REQUEST DISCREPANCY BE RESOLVED.

VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO START CONSTRUCTION AFFECTING UTILITIES. POTHOLE WHERE NEEDED TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.

CONTACT USA (UNDERGROUND SERVICES ALERT) AT 1-800-227-2600, AND AFFECTED UTILITY COMPANIES A MINIMUM OF 2 WORKING DAYS PRIOR TO STARTING WORK TO REQUEST UTILITIES BE MARKED.

REMOVE FROM SITE AND DISPOSE OF IN LAWFUL MANNER EXISTING STRUCTURES, UTILITIES, AND OTHER FEATURES NOT REMOVED DURING DEMOLITION OR ROUGH GRADING AND ENCOUNTERED DURING WORK ON SITE.

1.A. REMOVE WOOD OR CONCRETE STRUCTURES, SLABS, FOOTINGS, GRADE BEAMS, DECKS, DOCKS, AND OTHER SIMILAR STRUCTURES.

1.B. REMOVE LANDSCAPING, UTILITIES AND IRRIGATION LINES AS SPECIFIED BY GEOTECHNICAL ENGINEER.

1.C. REMOVE ABANDONED IN-GROUND STRUCTURES, SUCH AS CULVERTS, UTILITY VAULTS, AND FOUNDATIONS AS SPECIFIED BY GEOTECHNICAL ENGINEER

1. DEWATER AREAS COVERED WITH STANDING WATER PRIOR TO PLACEMENT OF FILL.

2. DISPOSE OF WATER FROM DEWATERING OPERATION IN CONFORMANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

DO NOT OPERATE WATER VALVES OR OTHER WATER DISTRICT FACILITIES. REQUIRED OPERATION WILL BE PERFORMED BY UTILITY DISTRICT PERSONNEL ONLY, NOTIFY UTILITY DISTRICT 2 WORKING DAYS PRIOR TO REQUIRING FACILITY OPERATION.

PROVIDE MINIMUM 12 INCH VERTICAL CLEARANCE BETWEEN ADJACENT UTILITY PIPES 11. UNIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MILES PER HOUR, AT UTILITY CROSSINGS UNLESS OTHERWISE NOTED.

COMPLETE ELECTRIC, GAS, TELEPHONE, CABLE AND OTHER JOINT TRENCH WORK IN CONFORMANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDER. NOTIFY UTILITY PROVIDER MINIMUM 2 WORKING DAYS PRIOR TO COMMENCING WORK.

F EXISTING WATER, SEWER, GAS OR OTHER UTILITY SERVICES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION, NOTIFY UTILITY OWNER IMMEDIATELY.

12. INSTALL SANDBIAGS OF UTILITE ENVISION CONTINUE WITHOUT CONTINUE PROVIDER.

RUNOFF TO PUBLIC ROADWAYS.

13. REPLANT VEGETATION IN DISTURBED AREAS AS SOON AS POSSIBLE.

14. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION.

4. PROTECT UTILITIES FROM DAMAGE CAUSED BY CONTRACTOR'S WORK.

5. PROVIDE UTILITY STRUCTURES IN PAVED AREAS SUITABLE FOR H-20 LOADING.

PIPE LENGTHS SHOWN ON PLANS ARE FOR ENGINEERING CALCULATIONS ONLY AND ARE NOT INTENDED AS BID QUANTITIES OR FOR ORDERING MATERIALS.

CONSTRUCT GRAVITY FLOW UTILITIES FROM DOWNSTREAM CONNECTION POINT TO

COORDINATE WITH COUNTY OF SAN MATEO AND CRYSTAL SPRINGS SANITATION DISTRICT FOR INSPECTION OF WORK ON DISTRICT FACILITIES.

ALL WATER LATERALS AND SERVICES SHALL BE INSTALLED TO THE STANDARDS OF THE CALIFORNIA WATER SERVICE COMPANY, EXISTING WATER MAINS OR LATERALS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND TESTED TO THE SATISFACTION OF THE WATER COMPANY.

OFF-SITE IMPORT FILL MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.

TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH AND DEBRIS WILL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.

REMOVE DEBRIS FROM AREAS OF EARTHWORK PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS.

PLACE AND COMPACT FILL MATERIAL AS RECOMMENDED IN GEOTECHNICAL REPORT. PLACE FILL MATERIAL IN MAXIMUM 8 INCH UNCOMPACTED THICKNESS. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.

5. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES.

KEEP ACCURATE RECORD OF THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF WORK ON A COPY OF THE FINAL APPROVED CONSTRUCTION DOCUMENTS. NOTE THE LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS ENCOUNTERED THAT VARY FROM THE LOCATIONS SHOWN ON THE IMPROVEMENT PLANS. PROVIDE COPY OF RECORD INFORMATION TO OWNER AT COMPLETION OF PROJECT AND WHEN

VII. STATEMENT OF RESPONSIBILITY

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION 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 CONTINUCIOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE COUNTY OF SAM MATEO HARMLESS FROM ANY AND ALL LUABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LUABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE COUNTY OF SAM MATEO, RESPECTIVELY.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR UABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND REQUIRE WRITTEN APPROVAL OF THE COUNTY ENGINEER AND THE PREPARER OF THESE PLANS.

NOTES AND CALLOUTS ON DRAWINGS MAY USE IMPERATIVE LANGUAGE. REQUIREMENTS EXPRESSED IMPERATIVELY ARE TO BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

CONDITIONS OF APPROVAL NOTES

CONSTRUCTION NOTES

THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET THER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE

THE SECOND PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET TIER 2 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY AND 50 PERCENT TO MEET TIER 1 EPA CERTIFICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.

FOR ALL LARGER VEHICLES, INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.

4. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.

COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAYED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.

SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.

SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO THE STREETS.

HYDROSEED OR APPLY NON-TOXIC SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE). 10. ENCLOSE, COVER, WATER TWICE DAILY, OR APPLY NON-TOXIC SOIL BINDERS TO ROADS TO 15 MILES PER HOUR.

12. INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

14. INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS OR WASH OFF THE TIRES OR TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE CONSTRUCTION SITE.

15. INSTALL WIND BREAKS AT THE WINDWARD SIDES OF THE CONSTRUCTION AREAS.

16. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.

EQUIPMENT AND TRUCKS USED FOR PROJECT GRADING AND CONSTRUCTION WOULD UTILIZE THE BEST AVAILABLE NOISE CONTROL TECHNIQUES (E.G., IMPROVED EXHAUST MUFFLERS, EQUIPMENT REDESIGN, USE OF INTAKE SLENGERS, DUCTS, ENGINE ENGLOSURES, AND ACOUSTICALLY—ATTENUATING SHIELDS OR SHROUDS) IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS.

EQUIPMENT USED FOR PROJECT GRADING AND CONSTRUCTION WOULD BE FOUNDAMENT USED FOR PROJECT GRAINING AND CONSTRUCTION WOULD BE HYPORAULCALLY OR ELECTRICALLY POWERED IMPACT TOOLS (E.G., JACK HAMMERS AND PAVEMENT BREAKERS) WHEREVER POSSIBLE TO AVOID NOISE ASSOCIATED WITH COMPRESSED AIR EXHAUST FROM PREUMATICALLY—POWERED TOOLS. COMPRESSED AIR EXHAUST SILENCERS WOULD BE USED ON OTHER EQUIPMENT. OTHER QUIETER PROCEDURES WOULD BE USED SUCH AS DRILLING RATHER THAN IMPACT EQUIPMENT WHENEVER FEASIBLE.

THE GRADING AND CONSTRUCTION ACTIVITY WOULD BE KEPT TO THE HOURS OF 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY, SATURDAY HOURS (8:00 AM TO 5:00 PM) ARE PERMITTED UPON THE DISCRETION OF COUNTY APPROVAL BASED ON INPUT FROM NEARBY RESIDENTS AND BUSINESSES. SATURDAY CONSTRUCTION (8:00 AM TO 5:00 PM) WOULD BE ALLOWED ONCE THE BUILDINGS ARE FULLY ENCLOSED. NOISE GENERATING GRADING AND CONSTRUCTION ACTIVITIES SHALL NOT OCCUR AT ANY TIME ON SUNDAYS, THANKSGIVING AND CHRISTMAS.

RESIDENTIAL PROPERTY OWNERS WITHIN 200 FEET OF PLANNED CONSTRUCTION AREAS SHALL BE NOTIFIED OF THE CONSTRUCTION SCHEDULE IN WRITING, PRIOR TO CONSTRUCTION: THE PROJECT SPONSOR SHALL BESIGNATE A "DISTURBANCE COORDINATOR" WHO SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COMPLAINTS REGARDING CONSTRUCTION NOISE: THE COORDINATOR (WHO MAY BE AN EMPLOYEE OF THE DEVELOPER OR GENERAL CONTRACTOR) SHALL DETERMINE
THE CAUSE OF THE COMPLAINT AND SHALL REQUIRE THAT REASONABLE MEASURES
WARRANTED TO CORRECT THE PROBLEM BE IMPLEMENTED; A TELEPHONE NUMBER
OF THE NOISE DISTURBANCE COORDINATOR SHALL BE CONSPICUIOUSLY POSTED AT THE CONSTRUCTION SITE FENCE AND ON THE NOTIFICATION SENT TO NEIGHBO ADJACENT TO THE SITE.

. IF NATURALLY OCCURRING ASSESTOS IS IDENTIFIED AT THE SITE, A SITE HEALTH AND SAFETY (H&S) PLAN INCLUDING METHODS FOR CONTROL OF AIRBORNE DUST SHALL BE PREPARED. THIS PLAN SHALL BE REVIEWED AND APPROVED BY THE COUNTY OF SAN MATEO PRIOR TO GRADING IN AREAS UNDERLAIN BY SERPENTINE—BEARING SOILS OR BEDROCK AND NATURALLY OCCURRING ASSESTOS. THE H&S PLAN SHALL STRICTLY CONTROL DUST—GENERATING EXCAVATION AND COMPACTION OF MATERIAL CONTAINING NATURALLY OCCURRING ASSESTOS. THE PLAN SHALL ALSO DENTIFY SITE—MONITORING ACTIVITIES DEMED NECESSARY DURING CONSTRUCTION (E.G., AIR MONITORING). WORKER MONITORING SHALL ALSO BE PERFORMED AS APPROPRIATE. THE PLAN SHALL DEFINE PERSONAL PROTECTION METHODS TO BE USED Y CONSTRUCTION WORKERS. ALL WORKER PROTECTION AND MONITORING SHALL COMPLY WITH PROVISIONS OF THE MINING SAFETY AND HEALTH ADMINISTRATION (MISHA) GUIDELINES, CALIFORNIA DINISION OF OCCUPA—TIONAL SAFETY AND HEALTH (DOSH), AND THE FEDERAL OCCUPATIONAL SAFETY AND SAFETY AND HEALTH (DOSH), AND THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

F NATURALLY OCCURRING ASBESTOS IS FOUND AT THE SITE, A SOIL MANAGEMENT PLAN SHALL BE DEVELOPED AND APPROVED BY THE COUNTY PLANNING DEPARTMENT TO PROVIDE DETAILED DESCRIPTIONS OF THE CONTROL AND DISPOSITION OF SOILS CONTAINING NATURALLY OCCURRING ASBESTOS. SERPENTINE MATERIAL PLACED AS FILL SHALL BE SUFFICIENTLY BURIED IN ORDER TO PREVENT EROSION BY WIND OR SURFACE WATER RUNGEF, OR EXPOSURE TO FUTURE HUMAN ACTIVITIES, SUCH AS LANDSCAPING OR SHALLOW TRENCHES. ADDITIONALLY, THE BAAGND SHALL BE NOTIFIED PRIOR TO THE START OF ANY EXCAVATION IN AREAS CONTAINING NATURALLY OCCURRING ASBESTOS.

CRAPMIC MOTES

NO GRADING SHALL BE ALLOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 30) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR, THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT FLANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL REGIN

TREE PROTECTION NOTES

THE APPLICANT SHALL ESTABLISH AND MAINTAIN TREE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT. TREE PROTECTION ZONES SHALL BE DELINEATED USING 4-FOOT TAIL ORANGE PLASTIC FENCING SUPPORTED BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPLINES AS BY POLES POUNDED INTO THE GROUND, LOCATED AS CLOSE TO THE DRIPLINES AS POSSIBLE WHILE STILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE. THE APPLICANT SHALL MAINTAIN TREE PROTECTION ZORES FREE OF EQUIPMENT AND MATERIALS STORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THESE AREAS, SHOULD ANY LARGE ROOTS OR LARGE MASSES OF ROOTS NEED TO BE CUT. THE ROOTS SHALL BE INSPECTED BY A CERTIFIED ABBORIST OR REGISTERED FORESTER PRIOR TO CUTTING. ANY ROOT CUTTING SHALL BE MONITORED BY AN ARBORIST OR FORESTER AND DOCUMENTED, ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS, NORMAL IRRIGATION. THE ABOVE INFORMATION SHALL BE ON—SITE AT ALL TIMES.

VEGETATION REMOVAL/REPLACEMENT NOTES

VEGETATION REMOVED IN AREAS OUTSIDE OF BUILDING FOOTPRINTS, DRIVEWAYS, AND CONSTRUCTION ACCESS AREAS SHALL BE REPLACED WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, WIMEDIATELY AFTER GRADING IS COMPLETE IN THAT AREA, PRIOR TO THE ISSUINCE OF ANY BUILDING PERMITS, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLANCE WITH THIS CONDITION TO THE CURRENT FURNING SCION, SUBJECT TO REVIEW AND APPROVAL BY THE COMMUNITY DEVELOPMENT DIRECTOR.

THE APPLICANT SHALL REPLACE ALL VEGETATION REMOVED IN ALL AREAS NOT COVERED BY CONSTRUCTION WITH DROUGHT-TOLERANT, NON-INVASIVE PLANTS, ONCE CONSTRUCTION IS COMPLETED. PRIOR TO THE CURRENT PLANNING SECTION'S FINAL APPROVAL OF ANY BUILDING PERMIT, THE APPLICANT SHALL SUBMIT PHOTOGRAPHS DEMONSTRATING COMPLIANCE WITH THIS CONDITION, SUBJECT TO

DUST CONTROL NOTES

ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJOINING WATER BODY, PROPERTY, OR STREETS, EQUIPMENT AND MATERIALS ON THE SHE SHALL BE USED IN SUCH A MANNER AS TO AVOID EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.

A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOLLS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE PLANNING AND BUILDING DEPARTMENT'S GEOTECHNICAL SECTION, AND THE PLANNING AND BUILDING DEPARTMENT'S GEOT REGIONAL WATER QUALITY CONTROL BOARD.

DISCOVERY OF HUMAN REMAINS NOTE

THE APPLICANT AND CONTRACTORS MUST BE PREPARED TO CARRY OUT THE REQUIREMENTS OF CALIFORNIA STATE LAW WITH REGARD TO THE DISCOVERY OF REQUIREMENTS OF CALIFORNIA STATE LAW WITH REGARD TO THE DISCOVERY OF HUMAN REJAINS DURING CONSTRUCTION, WHETHER HISTORIC OR PREHISTORIC, IN THE EVENT THAT ANY HUMAN REMAINS ARE ENCOUNTERED DURING SITE DISTURBANCE, ALL GROUND-DISTURBING WORK SHALL CEASE IMMEDIATELY AND THE COUNTY CORONER SHALL BE NOTIFIED IMMEDIATELY. IF THE CORONER DETERMINES THE REMAINS TO BE NATIVE AMERICAN, THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED WITHIN 24 HOURS, A QUALIFIED ARCHAEOLOGIST, IN CONSULTATION WITH THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTINUED SHALP SHALL BE S COMMISSION, SHALL RECOMMEND SUBSEQUENT MEASURES FOR DISPOSITION OF THE

GEOTECHNICAL INSPECTION NOTE

PRIOR TO ISSUANCE OF BUILDING PERMITS, THE PROJECT GEOTECHNICAL CONSULTANT SHALL FIELD INSPECT (AND INVESTIGATE, AS NEEDED) ALL PROPOSED DRAINAGE DISCHARGE LOCATIONS AND VERIFY THAT PROPOSED DRAINAGE DESIGNS ARE ACCEPTABLE FROM A SLOPE STABILITY/EROSION PERSPECTIVE OR RECOMMEND APPROPRIATE MODIFICATIONS. LEGEND

EXISTING - - EXISTING PROPERTY LINE BOUNDRY \_\_\_ = \_\_\_ = EXISTING SANITARY SEWER W/MANHOLE EXISTING STORM DRAIN W/ MANHOLE EXISTING WATERLINE EXISTING CATCH BASIN — ≤ EXISTING GAS LINE ALL UTILITIES ARE APPROXIMATELY LOCATED PROPOSED \_\_\_\_\_\_ SANITARY SEWER W/ MANHOLE STORM DRAIN W/ MANHOLE & CATCH BASIN WATER LINE W/ FIRE HYDRANT STORM DRAIN EASEMENT S.O.E.

509.3 #4 DAK EXISTING TREE & ELEVATION (TREE NO. REFERS! TO TREE IDENTIFICATION TAG PER (TREE REPORT PREPARED BY HABITAT RESTORATION GROUP) ★ 509.3 #3 OAK LEATHERWOOD BUSH EUCALYPTUS TREE

SSE

P.O.C.

BL BLDG COR BOT

E.V.A.E.

FG FLC FTP FW GB GM GRAVEL GW INV JP

POINT OF CONNECTION FIRE DEFENSE ZONE FD7 FLOW-THROUGH PLANTER, PROPOSED FOR TREATMENT OF ROOF AND DRIVEWAY STORM WATER RUNOFF.

SANITARY SEWER EASEMENT

## **ABBREVIATIONS**

ASPHALTIC CONCRETE LENGTHI LINEAR FEET BEGINNING BAY LAUREL BUILDING CORNER LIP OF GUTTER NOT IN CONTRACT BOTTOM
GRADE AT BOTTOM OF WALL OAK TREE PEPPER TREE PEPPER INLE
PLANNED DEVELOPMENT
PINE TREE
PUBLIC UTILITY EASEMENT
POLYMNYL CHLORIDE PIPE
REINFORCED CONCRETE PIPE BACK OF WALK CATCH BASIN CHAIN LINK FENCE CORRUGATED METAL PIPE CLEANOUT CONCRETE REDWOOD TREE RETAINING WALL RET WALL COPPER RIGHT OF WAY DECOMPOSED GRANITE REDUCED PRESSURE BACKFLO DRAIN INLET RAIN WATER LEADER RAIN WATER LEADER
SLOPE
STORM DRAIN CATCH BASIN
STORM DRAIN CLEANOUT
STORM DRAIN DROP INLET
STORM DRAIN MANHOLE DOMESTIC WATER EXISTING GRADE EDGE OF PAVEMENT FUCAL YPTUS TRE EMERGENCY VEHICLE ACCESS FASEMENT STORM DRAIN MANHOLE
SANITARY SEWER CLEAN OUT
SANITARY SEWER MANHOLE
TREE
TOP OF CURB
TOE OF SLOPE
TOP OF SLOPE
TOP OF WALL
TYPICAL EASEMENT
EXISTING
FACE OF CURB
FINISH FLOOR
FINISH GRADE
FLOW LINE
FENCE FLOW LINE
FENCE
FLOW THROUGH PLANTER
FIRE WATER
GRADE BREAK
GARAGE FINISH FLOOR
GAS METER
GROUND SHOT
GRATE
EDGE OF GRAVEL ROAD
GUY MRE
INVERT TYPICAL
UTILITY BOX
VERTICAL CURVE
VITRIFIED CLAY PIPE
WATER
WATER
WATER
WATER WETER
WATER VALVE JOINT POLE

## **BENCHMARK:**

THE PROJECT BENCHMARK IS THE TOP OF AN IRON PIPE, ELEVATION OF 538.23, LOCATED WITHIN A MONUMENT BOX AT THE INTERSECTION OF THE CENTERLINES OF COBBLEHILL PLACE AND NEW BRUNSWICK DRIVE IN SAN MATEO, CALIFORNIA. THE ELEVATION SHOWN IN BASED UPON A SURVEY BY BKF ENGREERS IN MARCH OF 2011 AND IS BASED UPON AN ASSUMED ELEVATION.

## **BASIS OF BEARINGS:**

THE BEARING NORTH 76" 09" 00" EAST OF THE CENTERLINE OF COBBLE HILL PLACE AS SHOWN ON TRACT MAP NO. 723, THE HIGHLANDS, RECORDED ON AUGUST 26TH, 1955, IN VOLUMIE 43 OF MAPS AT PAGES 23-25, SAN MATEO COUNTY RECORDS.



VE, SUIT 94065 ?-6300 3399 255 SHORELINE DRIV REDWOOD CITY, CA 9 PHONE: (650) 482-FAX: (650) 482-63



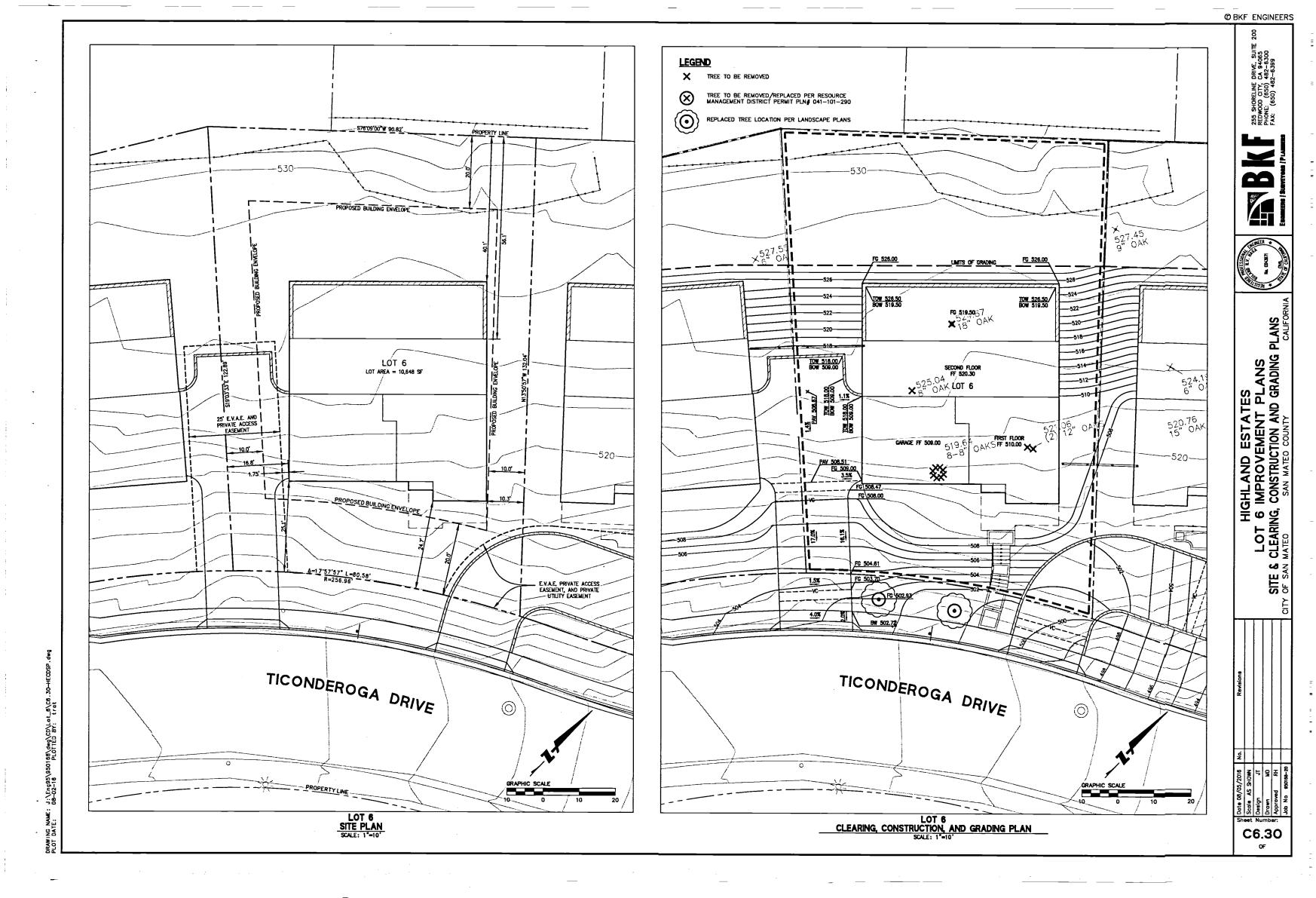


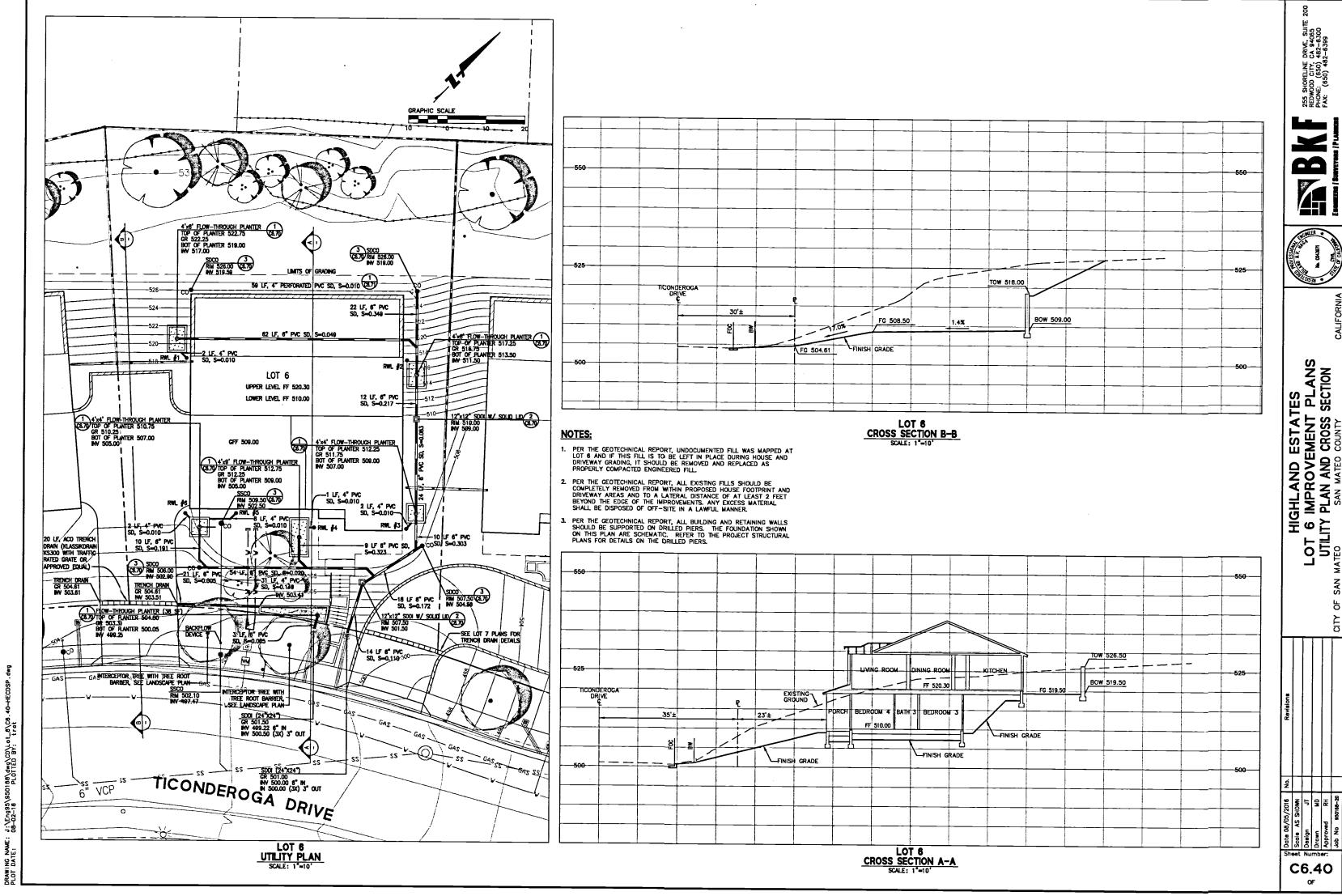
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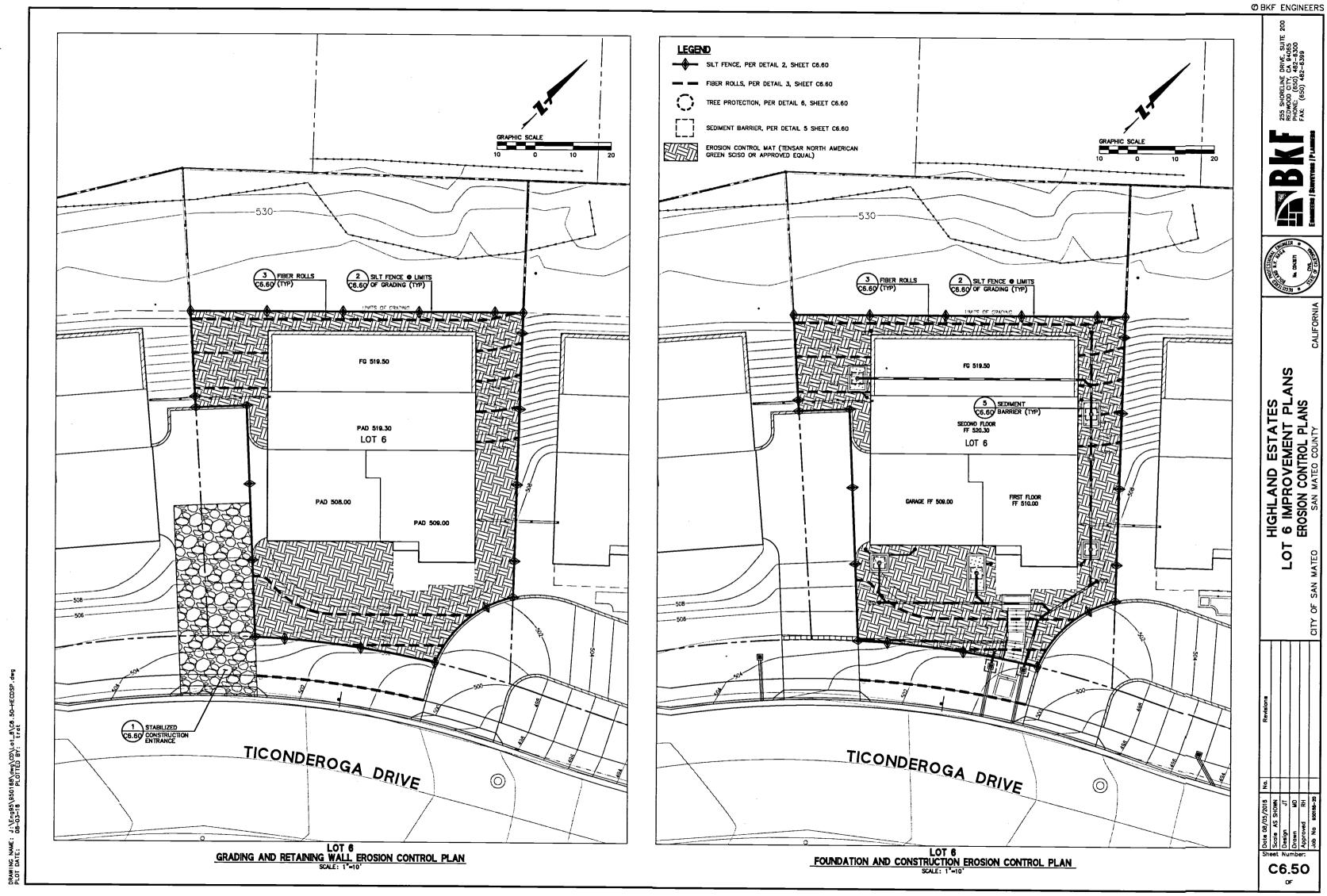
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**Ø** BKF ENGINEERS



SHORELINE WOOD CITY, NE: (650)

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- 3. THE INTENT OF THESE PLANNS IS TO PROVIDE THE INITIAL CONCEPT FOR INTERIM EROSION CONTROL. THE CONNTRACTOR SHALL UPDATE THE PLANS TO REFLECT CHANGING SITE CONDITIONSS. PLAN UPDATES SHALL BE BASED UPON CENERAL SURVEY DATA. EROSION CONTROL EFFECTIVENESS SHALL ALSO BE MONITORED AND THE PLANS UPGRADED AS IREQUIRED TO PREVENT SIGNIFICANT QUANTITIES OF SEDIMENT FROM ENTERING 1THE DOWNSTREAM DRAINAGE SYSTEM.
- 4. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNJANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBILE FOR KEEPING THE STORM RUN OFF FROM LEAVING THE SITE, FIBER ROLLS, SAIND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS; SHALL USE ONE OF THE SEDIMENT BARRIERS SHOWN.
- 5. THE CONTRACTOR WILL BE I LIABLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATE OWNED AIND MAINTAINED ROAD CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND WILL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE, ADJACENT PUBLIC ROADS SHALL BE CLEANED: AT THE END OF EACH WORKING DAY.
- 6. BEST MANAGEMENT PRACTICES SHALL BE OPERABLE YEAR AROUND.
- DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THEE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF ITO ANY STORM DRAIN SYSTEM.
- ALL EROSION CONTROL FACILITIES MUST BE INSPECTED AND REPAIRED DAILY DURING THE RAINY SEASON), ALL SLOPES SHALL BE REPAIRED AS SOON AS POSSIBLE WHEN DAMAGED.
- THE FIRST PHASE OF CONSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT 'TO MEET TIER 1 EPA CERTIFICATION STANDARDS FOR CLEAN TECHNOLOGY. THE REMAINDER OF CONSTRUCTION EQUIPMENT (70 PERCENT), WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL BE REQUIRED TO USE
- 10. THE SECOND PHASE OF COINSTRUCTION SHALL REQUIRE 30 PERCENT OF CONSTRUCTION EQUIPMENT TO MEET THE 2 EPA CETHICATION STANDARDS FOR CLEAN TECHNOLOGY AND 550 PERCENT TO MEET THE 1 EPA CETHICATION STANDARDS. THE REMAINING 20 PERCENT OF CONSTRUCTION EQUIPMENT, WHICH WOULD CONSIST OF OLDER TECHNOLOGIES, SHALL USE EMULSIFIED FUELS.
- 11. FOR ALL LARGER VEHICLES: INCLUDING CEMENT MIXERS OR OTHER DEVICES THAT MUST BE DELIVERED BY LARGE TRUCKS, VEHICLES SHALL BE EQUIPPED WITH CARB LEVEL THREE VERIFIED CONTROL DEVICES.
- 12. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEDOARD.
- 14. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY NON-TOXIC SOIL STABILIZERS ON ALL UNPAVED ACCESS IROADS, PARKING AREAS, AND STAGING AREAS AT THE
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT THE CONSTRUCTION SITES.
- 16. SWEEP PUBLIC STREETS ADJJACENT TO CONSTRUCTION SITES DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL, MATERIAL IS CARRIED ONTO THE STREETS.
- AREAS (PREVIOUSLY GRADEED AREAS INACTIVE FOR TEN DAYS OR MORE).
- TEMPORARY AND PERMANENT SLOPES GREATER THAN 3 FEET SHALL BE SEEDED UNLESS ALTERNATIVE MEASSURES ARE USED.
- 19. SEED MIX FOR REVEGETATION AND HYDROSEEDING: NORTHERN CALIFORNIA COVVER MIX BY ACBRIGHT OR EQUAL
- 30% BLUE WILDRYE 30% MEADOW BARLEY 20% ZORRO FESCUE 10% PURPLE NEEDLE GRASSS
- 10% CALIFORNIA NATIVE WILDFLOWERS APPLY AT 40 POUNDS PER! ACRE MINIMUM
- 20. ENCLOSE, COVER, WATER TOWICE DAILY OR APPLY NON-TOXIC SOIL RINDERS TO EXPOSED STOCKPILES (DIRTI, SAND, ETC.). LIMIT TRAFFIC SPEEDS ON UNPAVED
- 21. DISPOSAL AREAS FOR SEDIMENT TO BE DETERMINED IN FIELD, WHEN MATERIAL IS STOCKPILED, IT SHALL BE SSURROUNDED BY A SILT FENCE/FIBER ROLLS.
- 22. LIMIT TRAFFIC SPEEDS ON LUNPAVED ROADS TO 15 MILES PER HOUR.
- INSTALL SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- 24. REPLANT VECETATION IN DISSTURBED AREAS AS SOON AS POSSIBLE
- 25. Install wheel washers ffor all extring trucks or wash off the tires or tracks of all trucks and equipment leaving the construction site.
- 26. INSTALL WIND BREAKS AT TITLE WINDWARD SIDES OF THE CONSTRUCTION AREAS.
- 27. SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN WIND (AS INSTANTANEOUS GUSTS) EXCEEDS 25 MILES PER HOUR.
- 28. NO GRADING SHALL BE ALLIOWED DURING THE WINTER SEASON (OCTOBER 15 TO APRIL 30) TO AVOID POTENTIAL SOIL EROSION UNLESS APPROVED, IN WRITING, BY THE COMMUNITY DEVELOPMENT DIRECTOR. THE PROPERTY OWNERS SHALL SUBMIT A LETTER TO THE CURRENT PYANNING SECTION, AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF GRADING, STATING THE DATE WHEN GRADING WILL BEGIN.
- 29. STABILIZE ALL DENUDED AREAS AND MAINTAIN EROSION CONTROL MEASURES CONTINUOUSLY BETWEEN OCCTOBER 15 AND APRIL 3G. STABILIZING SHALL INCLUDE BOTH PROACTIVE MEASURESS, SUCH AS THE PLACEMENT OF STRAW BALES OR CORNETTING, AND PASSIVE MEASURES, SUCH AS MINIMIZING VECETATION REMOVAL AND REVECETATING DISTURBED AAREAS WITH VECETATION THAT IS COMPATIBLE WITH THE SURROUNDING ENVIRONMENT.
- 30. Store, Handle, and dispose of construction materials and wastes properly, so as to previent their contact with stormwater.

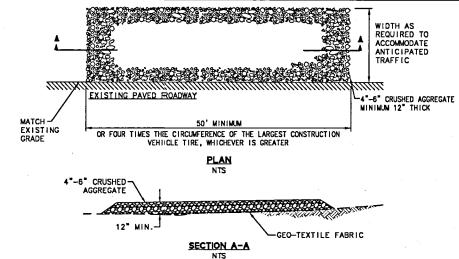
ALL EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15 AND MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

- 31. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENTS, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
- 32. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING SITE AND OBTAINING ALL NECESSARY PERMITS.
- 33. AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASH WATER IS CONTAINED AND TREATED.
- 34. DELINEATE WITH FIELD MARKERS CLEARING LIMITS, SETBACKS, AND DRAINAGE
- 35. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 36. PERFORM CLEARING AND EARTH-MOVING ACTIVITIES ONLY DURING DRY WEATHER.
- 37. LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- 38. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- 39. ALL GRADED SURFACES AND MATERIALS, WHETHER FILLED, EXCAVATED, TRANSPORTED OR STOCKPILED, SHALL BE WETTED, PROTECTED OR CONTAINED IN SUCH A MANNER AS TO PREVENT ANY SIGNIFICANT NUISANCE FROM DUST, OR SPILLAGE UPON ADJ EXCESSIVE DUST. A DUST CONTROL PLAN MAY BE REQUIRED AT ANYTIME DURING THE COURSE OF THE PROJECT.
- 40. A DUST PALLIATIVE SHALL BE APPLIED TO THE SITE WHEN REQUIRED BY THE COUNTY. THE TYPE AND RATE OF APPLICATION SHALL BE RECOMMENDED BY THE SOILS ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS, THE
- 41. IF NO WORK HAS PROGRESSED FOR A PERIOD OF 6-WEEKS, FINAL DRAINAGE AND EROSION CONTROL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED WINTERIZATION PLAN.
- 42. PADS SHALL BE GRADED TO MINIMIZE STANDING WATER. SPECIFIC LOCATIONS REQUIRING SUPPLEMENTAL GRADING TO ACHIEVE ACCEPTABLE DRAINAGE SHALL BE DETERMINED BY THE CONSTRUCTION MANAGER. ALL SPOILS AND SOIL STOCKPILES REMAINING ON SITE SHALL BE ENCIRCLED BY SILT FENCES/FIBER ROLLS.
- 43. STUBBED OUT ENDS OF PARTIALLY COMPLETED SUBDRAINS SHALL BE WRAPPED WITH AN APPROVED FABRIC TO PREVENT SOIL AND DEBRIS FROM ENTERING THE
- 44. HAUL ROADS ARE CURRENTLY NOT SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE TAKEN TO MINIMIZE EROSION RELATED TO HAUL ROADS.
- 45. GRADING SCHEDULE SHALL BE SUBMITTED FOR APPROVAL TO SAN MATEO COUNTY PUBLIC WORKS BY AUGUST 15.
- 46. EROSION CONTROL POINT OF CONTACT:
  NOEL CHAMBERLAIN, NEXGEN BUILDERS INC.
  225 DEMETER STREET
  EAST PALO ALTO, CA 94303
  PHONE #: 650-424-3089
  CELL #: 650-444-3089
  EMAI: neel@revebuilders.com
- 47. SHOULD IT APPEAR THAT THE EROSION CONTROL PLAN, OR ANY OTHER MATTER THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE BKF PROJECT ENGINEER AT (650) 482-6300 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
- 48. AREAS DELINEATED ON PLANS FOR PARKING, CLEARING & GRUBBING, STORAGE, ETC. SHALL NOT BE ENLARGED OR "RUN OVER."
- 49. CONSTRUCTION SITES ARE REQUIRED TO HAVE EROSION CONTROL MATERIALS ON-SITE DURING THE "OFF-SEASON."
- 50. DUST CONTROL IS REQUIRED YEAR-ROUND.
- 51. EROSION CONTROL MATERIALS SHALL BE STORED ON-SITE.
- 52. USE OF PLASTIC SHEETING BETWEEN OCTOBER 1ST AND APRIL 30TH IS NOT ACCEPTABLE, UNLESS FOR USE ON STOCKPILES WHERE THE STOCKPILE IS ALSO PROTECTED WITH FIBER ROLLS CONTAINING THE BASE OF THE STOCKPILE.
- TREE PROTECTION SHALL BE IN PLACE BEFORE ANY GRADING, EXCAVATING OR GRUBBING IS STARTED.

FIBER ROLL

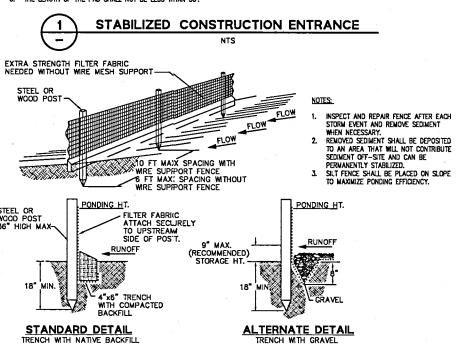
WOOD STAKE 3/4"x3/4" MAX 4' SPACING

ENTRENCHMENT DETAIL

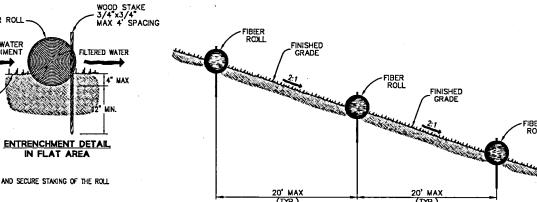


#### NOTES:

- ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RICHT-OF-WAYS. THIS MAY REQUIRE PERHODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TIME SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED IMMEDIATELYY.
- WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE OWNTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRZAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN, ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DUTCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
- 3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SSHALL BE 4" TO 6" STONE.
- 4. THE THICKNESS OF THE PAD SHALL NOT BE LESSS THAN 12".
- 5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 6. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.



SILT FENCE NTS



FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3<sup>1</sup> TO 4<sup>4</sup> DEEP, DUG ON CONTOUR.
 ADJACENT ROLLS SHALL TIGHTLY ABUT.
 RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.

FIBER ROLL -

RUNOFF WATER WITH SEDIMENT

FINISHED GRADE







FIBER ROLLS TIGHTLY WRAPED

SEDIMENT TRAP TRENCH.

WOOD STAKES

3/4"x3/4" •

EMBED FIBER
ROLL 3"-4"
INTO SOIL

EXISTING TREE TO REMAIN

PROVIDE 1' WIDE BY 6"

TRENCH AROUND INLET.

PLAN VIEW

\_12"--1

DROP INLET

SECTION A-A

PONDING HEIGHT

STRAW FIBER ROLLS

- PLACE FIBER ROLLS; AROUND THE INLET CONSISTENT WITH BIASIN SEDIMENT BARRIER DETAIL ON THIS SHEET. (FIBER ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING, THEY ARE: APPROX. 8" DIA. AND 20
- FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SEICURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" — 4" DEEP, DUG ON CONTOUR. RUNO)FF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.
- THE TOP OF THE STIRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE! NECESSARY.



NOTES:

SEDIMENT BARRIER

(TIME FRAME: AREA DRAINS - BETWEEN AREA DRAIN INSTALLATION AND PROJECT (COMPLETION CURB INLETS - BETWEEN CURB INLET INSTALLATION AND FINAL PAWING OPERATIONS) NTS

- THE APPLICANT SHALL ESTABLISH AND MAINTAIN TREE PROTECTION ZONES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT.
- 2. TREE PROTECTION ZONES SHALL BE DELLINEATED USING 4-FOOT TALL DRANGE PLASTIC FENCINGS SUPPORTED POUNDED INTO THE GROUND, LOUGATED AS CLOSE TO THE DRIPLINES AS POSSIBLE WHILE ISTILL ALLOWING ROOM FOR CONSTRUCTION/GRADING TO SAFELY CONTINUE.
- 3. THE APPLICANT SHALL MAINTAIN TREE IPROTECTION ZONES FREE OF EQUIPMENT AND MATERIALS STTORAGE AND SHALL NOT CLEAN ANY EQUIPMENT WITHIN THEESE AREAS.
- SHOULD ANY LARGE ROOTS OR LARGE IMASSES OF ROOTS NEED TO BE CUT, THE ROOTS SHALL BEE INSPECTED BY A CERTIFIED ARBORIST OR REGISTERED FORESTER PRIOR TO CUTTING, ANY ROOT CUTTING SHALL BE! MONITORED BY AN ARBORIST OR FORESTER AND DOCUMENTED.
- ROOTS TO BE CUT SHOULD BE SEVERED CLEANLY WITH A SAW OR TOPPERS.
- NORMAL IRRIGATION SHALL BE MAINTAINED, BUT OAKS SHOULD NOT NEED SUMMER IRRIGATION...
- 7. THE ABOVE INFORMATION SHALL BE ON-SITE AT ALL TIMES.



TREE PROTECTION FENCE

#### CALIFORNIA STORMWATER QUALITY ASSOCIATION ICASQAI STANDARD DETAIL REFERENCES

(CALIFORNIA STORMWATER BMP HANDBOOK CONSTRUCTION, DATED NOVEMBER 2009) NOTE: ALTHOUGH SPECIFIC LOCATIONS FOR SPECIFIC BMPS ARE SHOWN ON THESE PLANS, IIT IS INTENDED FOR THE CONTRACTOR TO APPLY APPROPRIATE BMPS WHEN NECESSAR!Y TO MEET FIELD CONDITIONS.

#### EROSION CONTROL BMPS:

DRIPLINE

(PROTECTED ROOT ZONE)

TREE PROTECTION FENCE

- PRESERVATION OF EXISTING VEGETATION
  HYDRAULIC MULCH
  HYDROSEEDING
- HYDROSEEDING
  SOIL BINDERS
  STRAW MULCH
  GEOTEXTILES & MATS
  WOOD MULCHING
  EARTH DIKES AND DRAINAGE SWALES
  VELOCITY DISSIPATION DEVICES
  STORE DRAINS
- SLOPE DRAINS STREAMBANK STABILIZATION COMPOST BLANKETS
- EC-15 SOIL PREPARATION/ROUGHENING EC-16 NON-VEGETATIVE STABILIZATION

#### TEMPORARY SEDIMENT CONTROL BMPS:

- SILT FENCE SEDIMENT BASIN SEDIMENT TRAP CHECK DAM CHECK DAM
  FIBER ROLLS
  GRAVEL BAG BERM
  STREET SWEEPING AND VACUUMING
  SANDBAG BARRIER
- SANDBAG BARRIER
  STRAW BALE BARRIER
  STORM DRAIN INLET PROTECTION
  ACTIVE TREATMENT SYSTEMS
  TEMPORARY SILT DIKE
  COMPOST SOCKS AND BERMS
  BIOFILTER BAGS

#### WIND EROSION CONTROL BMPS:

TEMPORARY TRACKING CONTROL BMPSS;

TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT

TC-2 STABILIZED CONSTRUCTION RIOADWAY

TC-3 ENTRANCE/OUTLET TIRE WASSH

NON-STORMWATER MANAGEMENT BMPtS: WATER CONSERVATION PRACTICES

DEWATERING OPERATIONS
PAYING AND GRINDING OPERATIONS
TEMPORARY STREAM CROSSING
CLEAR WATER DIVERSION

ILLICIT CONNECTION/DISCHARIGE POTABLE WATER/IRRIGATION
VEHICLE AND EQUIPMENT CLEANING
VEHICLE AND EQUIPMENT FUELING
VEHICLE AND EQUIPMENT MAINTENANCE

PILE DRIVING OPERATIONS CONCRETE CURING NS-13 CONCRETE FINISHING NS-14 MATERIAL AND EQUIPMENT UISE NS-15 DEMOLITION ADJACENT TO WATER

NS-16 TEMPORARY BATCH PLANTS

## WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL BMPS:

WM-1 MATERIAL DELIVERY AND STORAGE WM-2 MATERIAL USE

WM-1 MATERIAL DELIVERY AND STORAGE
WM-2 MATERIAL USE
WM-3 STOCKPILE MANAGEMENT
WM-4 SPILL PREVENTION AND CONTIROL
WM-5 SOULD WASTE MANAGEMENT
WM-6 HAZARDOUS WASTE MANAGEMENT
WM-7 CONCRETE WASTE MANAGEMENT
WM-8 CONCRETE WASTE MANAGEMENT

SANITARY/SEPTIC WASTE MAINAGEMENT LIQUID WASTE MANAGEMENT

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CONSTRUCTION DETAIL
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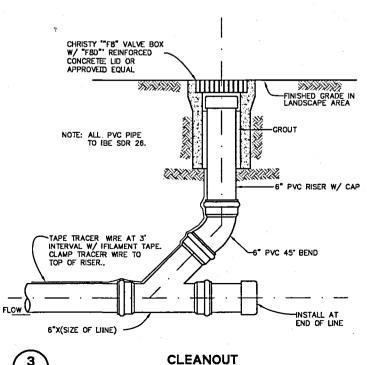
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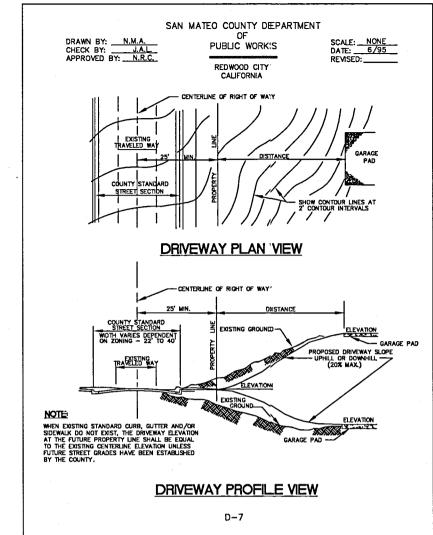
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DRAWN BY: N.M.A.
CHECK BY: J.A.L.
APPROVED BY: N.R.C. SAN MATEO COUNTY DEPARTMENT SCALE: NONE DATE: 6/95 REVISED: PUBLIC WORKS REDWOOD CITY CALIFORNIA NON-PERFORATED LUMINUM CONE OVERFLOW DEVICE NOTE: LOCATION OF DEVICE TO APPROVAL OF DISTRICT AND BUILDING DEPARTMENT PRIOR TO INSTALLATION VALVE OPENS TO A ALLOW WASTE WATER TO PLOW NOTE: LOCATION OF DEVICE
TO APPROVAL OF
DISTRICT AND BUILDING
DEPARTMENT PRIOR
TO INSTALLATION NOTE: WHEN EXISTING STANDARD CURB, GUTTER AND/OR SIDEWALK DO NOT EXIST, THE DRIVEWAY ELEVATION AT THE FUTURE PROPERTY LINE SHALL BE EQUAL TO THE EXISTING CENTERLINE ELEVATION UNLESS FUTURE STREET GRADES HAVE BEEN ESTABLISHED BY THE COUNTY. BACKFLOW\_DEVICE OVERFILOW AND BACKFLOW DEVICE DETAIL C-9

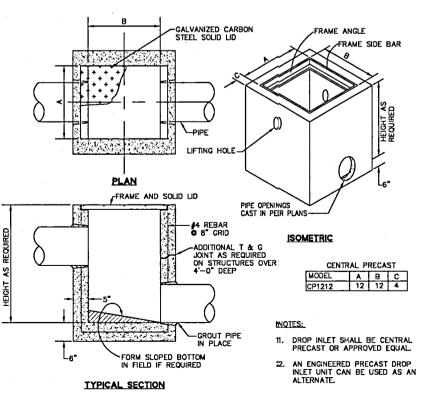
SAN MATEO COUNTY

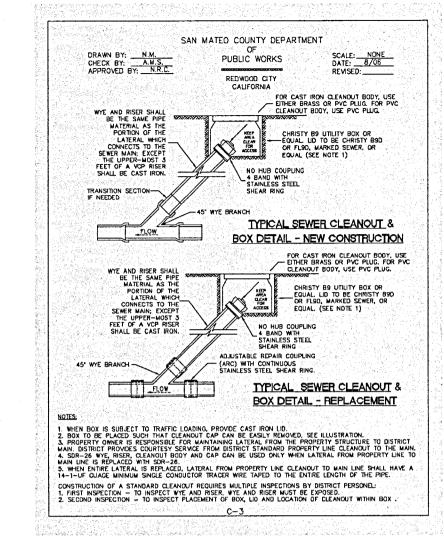
6 OVERFLOW AND BACKFLOW DEVICE DETAIL



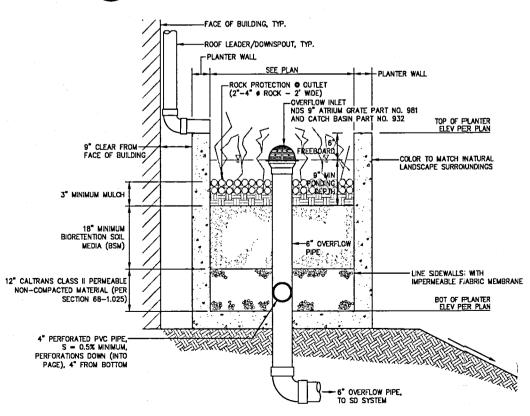


SAN MATEO COUNTY DRIVEWAY PLAN AND PROFILE VIEWS





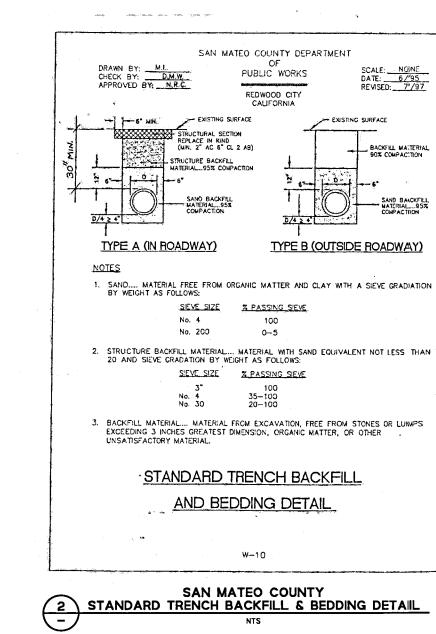


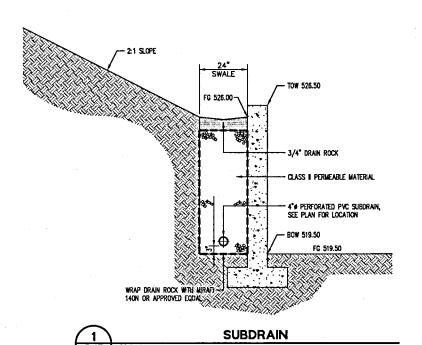


FLOW-THROUGH PLANTER (FTP)

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DROP INLET





HIGHLAND ESTATES
LOT 6 IMPROVEMENT PLANS
CONSTRUCTION DETAILS
MATEO SAN MATEO COUNTY CIT

**Ø BKF ENGINEERS** 

DRIVE, SUITE CA 94065 482-6300 12-6399

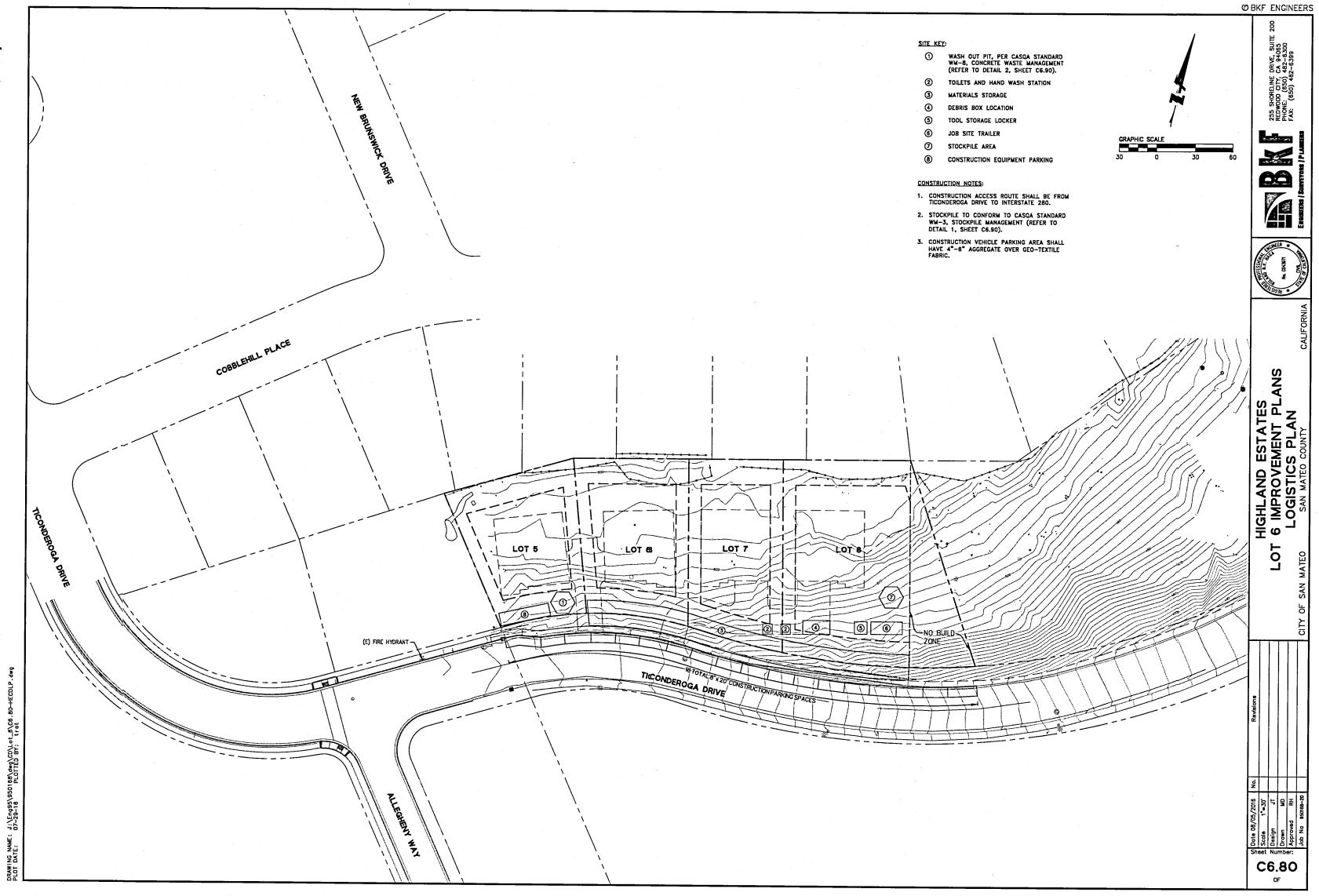
255 SHORELINE D REDWOOD CITY, C PHONE: (650) 4 FAX: (650) 482-

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LOT 6 IMPROVEMENT PLANS
CASQA STANDARD DETAILS
ATEO SAN MATEO COUNTY

Primary Category Secondary Category

Targeted Constituents

Potential Alternatives

Bacteria Oil and Grease

Organics

Description and Purpose

pile managemeent procedures and practices are designed stockpute management procedures and practices are designed to reduce or eliminate are and stormwater pollution from stockpiles of soil, soil amendments, sand, paving materials such as portland cement concrete (PCC) tubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt minder (so called "cold mix" asphalt), and pressure treated wood.

Suitable Applications

Implement in all projects that stockpile soil and other loose

- Plastic sheeting as a stockpile protection is temporary and hard to manage sim windy conditions. Where plastic is used, consider use of polastic tarps with nylon reinforcement which may be moore durable than standard sheeting.
- Plastic sheeting coan increase runoff volume due to lack of infiltration and potentially cause perimeter control failure.
- Plastic sheeting threaks down faster in sunlight.
- The use of plastice materials should be avoided when feasible and photodegraddable plastics should not be used.

Implementation

Protection of stockpiiles is a year-round requirement. To properly

Stockpile Management

**WM-3** 

- On larger sites, a minimum of 50 ft separation from concentrated flows of stormwater drainage courses, and inlets is recommended.
- All stockpiles are required to be protected immediately if they are not scheduled to be used within 14 days.
- Protect all stockpiles from stormwater run-on using temporary perimeter sediment barriers such as compost barms (SE-13), temporary silt dikes (SE-12), fiber rolls (SE-5), silt fenoss (SE-1), sandbags (SE-8), great bags (SE-5), or bioliter bags (SE-14). Refer to the individual fact sheet for each of these controls for installation information.
- Implement wind erosion control practices as appropriate on all stockpiled material. For specific information, see WB-1, Wind Erosion Control.
- Manage stockpiles of contaminated soil in accordance with WM-7, Contaminated Soil Management.
- Place bagged materials on pallets and under cover.
- Ensure that stockpile coverings are installed securely to protect from wind and rain.
- Some plastic covers withstand weather and sunlight better than others. Select cover materials or methods based on anticipated duration of use.

Protection of Non-Active Stockpiles

Non-active stockpiles of the identified materials should be protected further as follows:

- Soil stockpiles

  Cover and project soil stockpiles with soil stabilization measures and a temporary perimeter sediment barrier at all times.
- Consider temporary regetation for topsoil piles that will be stockpiled for extended periods. Stockpiles of Portland coment concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, or aggregate sub-base

  Provide covers and protect these stockpiles with a temporary perimeter sediment barrier at all times.

Stockpiles of "cold mix"

Cover cold max stockpiles and place them on plastic sheeting (or comparable material) and surround the stockpiles with a berm all times.

Stockpiles of fly ash, stucco, hydrated lime

Cover stockpiles of materials that may raise the pH of runoff (i.e., basic materials) with plastic and surround the stockpiles with a berm at all times.

Stockpile Management

**WM-3** 

Stockpiles/Storage of wood (Pressure treated with chromated copper arsenate or ammoniaca

copper site or senete)

Cover treated wood with plastic sheeting (or comparable material) and surround with a berm at all times.

Protection of Active Stockpiles

Active stockpiles of the identified materials should be protected as follows:

- All stocipiles should be covered and protected with a temporary linear sediment barrier
  prior to the onset of precipitation.
- Stockpiles of "cold max" and treated wood, and basic materials should be placed on and
  covered with plastic sheeting or comparable material and surrounded by a berm prior to the onset of precipitation.
- The downstream perimeter of an active stockpile should be protected with a linear sediment barrier or berm and runoff should be diverted around or away from the stockpile on the upstream perimeter.

For cost information associated with stockpile protection refer to the individual erosion or sadiment control BMP fact sheet considered for implementation (For example, refer to SE-1 Silt Fence for installation of silt fence around the perimeter of a stockpile.)

Inspection and Maintenance

- Stockpite must be inspected in accordance with General Fermit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- It may be necessary to inspect stockpiles covered with plastic sheeting more frequently during certain conditions (for example, high winds or extreme heat).
- Repair and/or replace perimeter controls and covers as needed to keep them functioning
- Sediment shall be removed when it reaches one-third of the barrier height.

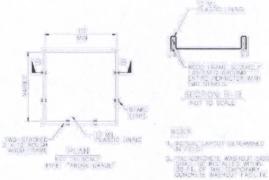
Stermwater Quality Handbooks - Construction Site Best Management Fractices (BMFs) Manual, State of California Department of Transportation (California), March 2003.

## WM-3 - STOCKPILE MANAGEMENT

WEIGHTS TO PREVENT WIND OR RAIN FROM DISTURBING -STACKED GRAVEL BAGS PLACED AROUND THE BASE OF STOCKPILE STOCKPILE COVERING (PER CASQA STANDARD WM-3, STOCKPILE MANAGEMENT, SEE LEFT)

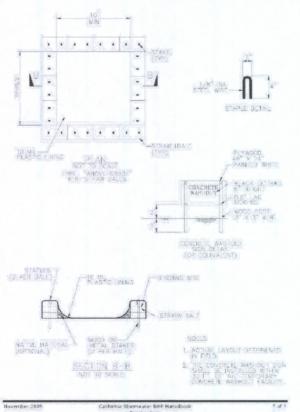
WATERPROOF PLASTIC MEMBRANE-SECURE WITH ANCHORS OR

**Concrete Waste Management WM-8** 



**Concrete Waste Management** 

**WM-8** 



2' TYP. ALL
AROUND PERIMETER MAX. WATEFR LEVEL.
PUMP OUT WHEN IT
REACHES TIHIS LEVEL. -WATERPROOF PLASTIC MEMBRANE, MIRAFI, MCF1212, OXR APPROVED | EQUAL. SECTION A-A

> TEMPORARY WASHOUT PIT (PER CASQA STANDARD WM-8, CONCRETE WASTE MANAGEMENT, SEE LEFT)

WM-8 - CONCRETE WASTE MANAGEMENT NTS

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