

SANTA BARBARA COUNTY BUILDING & SAFETY DIVISION GRADING NOTES

2. CONTRACTOR SHALL NOTIFY THE COUNTY GRADING INSPECTOR AND THE PROJECT ENGINEER AT LEAST 48 HOURS START OF ANY GRADING WORK. THEY SHALL BE NOTIFIED OF THE TIME AND LOCATION OF THE PRE—CONSTRUCTION CONFERENCE. THE SOILS ENGINEER SHALL PROVIDE OBSERVATION AND TESTING DURING GRADING OPERATIONS IN THE FIELD AND SHALL BMIT A FINAL REPORT TO THE COUNTY OF SANTA BARBARA SAFETY DIVISION AND PUBLIC WORKS INSPECTOR STATING THAT LEARTHWORK WAS PROPERLY COMPLETED AND IS IN SUBSTANTIAL CONFORMANCE WITH THE REQUIREMENTS OF THE GRADIN DINANCE. SOIL TESTS SHALL BE CONDUCTED AT NOT LESS THAN ONE TEST FOR EACH 18—INCHES OF FILL AND/OR FOR CH 500 CUBIC YARDS OF FILL. A THOROUGH SEARCH SHALL BE MADE FOR ALL ABANDONED MAN—MADE FACILITIES SUCH AS SEPTIC TANK SYSTEMS, FUEL WATER STORAGE TANKS, AND PIPELINES OR CONDUITS. ANY SUCH FACILITIES ENCOUNTERED SHALL BE REMOVED UNLESS HERWISE ALLOWED BY THE PROJECT ENGINEER AND THE SOILS ENGINEER. PIPELINES OR CONDUITS ALLOWED TO BE ANDONED—IN—PLACE SHALL BE CRUSHED OR SHALL HAVE ALL EXPOSED OPENINGS PLUGGED WITH STIFF CONCRETE RODDED REMOVE VOIDS WITHIN THE PIPELINE/CONDUIT TO A MINIMUM OF 5 LINEAL FEET BEYOND THE OPENING, UNDER THE SERVATION OF THE SOILS ENGINEER. IF THE ABANDONED FACILITIES ARE REMOVED THEN THE DEPRESSIONS SHALL BE OPERLY FILLED AND COMPACTED UNDER OBSERVATION OF THE SOILS ENGINEER. REAS TO BE GRADED SHALL BE CLEARED OF ALL JITABLE MATERIAL FOR A STRUCTURAL FILL, THEN JITABLE MATERIAL SHALL BE REMOVED FROM THE LACING ANY FILL MATERIAL, THE AREA SHALL BE MUM ADVANCED NOTICE). BEGINNING WORK REQUIRING EXPORTING OR IMPORTING OF MATERIALS, THE CONTRACTOR SHALL OBTAIN APPROVALIC WORKS ROAD DIVISION FOR HAUL ROUTES USED AND METHODS PROVIDED TO MINIMIZE DEPOSIT OF SOILS ON ADS. GRADING/ROAD INSPECTORS SHALL MONITOR THIS REQUIREMENT WITH THE CONTRACTOR. VEGETATION, IN SCARIFIED TO PROJECT SITE INSPECTED BY INCLUDING ROOTS AND ROOT STRUCTURES, AND OTHER
A DEPTH OF 6" PRIOR TO PLACING OF ANY FILL. ALL
AND TRANSPORTED TO A SUITABLE DISPOSAL AREA. PRIOR
THE COUNTY PUBLIC WORKS INSPECTOR (ALLOW 48 HOUF

9. FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 6-INCHES IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL MATERIAL NEAR OR BELOW STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DRY DENSITY AS DETERMINED BY A.S.T.M. D-1557-91 MODIFIED PROCTOR (AASHO) TEST OR SIMILAR APPROVED METHODS. SOME FILL AREAS MAY REQUIRE COMPACTION TO A GREATER DENSITY AS CALLED FOR IN CONSTRUCTION DOCUMENTS. NUMBER OF SOIL TESTS REQUIRED: 1 TEST PER EACH 18 INCHES OF FILL, BUT NOT LESS THAN 1 TEST PER 500 CUBIC YARDS OF FILL AND AT LEAST 1 TEST EACH AREA RECEIVING FILL. 11. SURFACE DRAINAGE SHALL NOT BE LESS THAN 1% EXCEPT FOR PAVED SURFACES. A MINIMUM OF 2% FOR FIVE (5) FEET AWAY FROM THE FOUNDATION LINE OF ANY BUILDING OR STRUCTURE IS REQUIRED.
12. ALL TREES NOT DESIGNATED TO BE REMOVED AND TO REMAIN ON SITE SHALL BE PROTECTED FROM DAMAGE BY TEMPORARY FENCING AROUND THE DRIPLINE DURING GRADING OPERATION. 8. AREAS WITH EXISTING SLOPES WHICH ARE TO RECEIVE FILL MATERIAL SHALL BE KEYED AND BENCHED. THE DESIGN AND INSTALLATION OF THE KEYWAY SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATION OR PER COUNTY STANDARD DETAIL #G-13.). CUT SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL. FILL AND COMBINATION FILL AND CUT OPES SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL. SLOPES OVER 3 FEET IN VERTICAL HEIGHT SHALL BE PLANTED. TH APPROVED PERENNIAL VEGETATION TO BE DENSE AND GROWING PRIOR TO FINAL INSPECTION OR TREATED WITH EQUALLY PROVED EROSION CONTROL MEASURES PRIOR TO FINAL INSPECTION.

GENERAL GRADING NOTES

G SUPERVISION REQUIREMENTS SHALL BE COMPLIED WITH AS FOLLOWS:
THE PROJECT ENGINEER SHALL BE A REPRESENTATIVE OF PENFIELD & SMITH.
LINE AND GRADE STAKES SHALL SET BY THE SURVEYORS UNDER THE GENERAL SUPERVISION OF THE PROJECTION TENGINEER SHALL PROVIDE GENERAL CONSTRUCTION REVIEW.
THE SOILS ENGINEER SHALL PROVIDE GENERAL REVIEW OF THE GRADING AND SUBGRADE PREPARATION AND REFORM COMPACTION TESTING AS NECESSARY TO ENSURE QUALITY CONSTRUCTION AND COMPLY WITH THE GRADINANCE.

E. UPON COMPLETION OF CONSTRUCTION, THE PROJECT ENGINEER SHALL PREPARE RECORD DRAWINGS AND SUBMIT REPORT INDICATING THAT THE IMPROVEMENTS HAVE BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. D. THE SOILS ENGINEER SHALL PROVIDE GENERAL REVIEW OF THE GRADING AND SUBGRADE PREPARATION, PERFORM COMPACTION TESTING, PERFORM 'R' VALUE TESTING, RECOMMEND THE STRUCTURAL SECTION FOR THE PRIVATE STREET CONSTRUCTION, MEASURE THE THICKNESS OF PAVEMENT AND BASE DURING CONSTRUCTION, TEST AND REVIEW THE QUALITY OF BASE, ETC. REFERENCE THE PRELIMINARY FOUNDATION INVESTIGATION PREPARED BY EARTH SYSTEMS SOUTHERN CALIFORNIA.

AT (800) 422-4133, FORTY-EIGHT (48) HOURS PRIOR TO

ROJECT BY

5. NOISE GENERATING CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM, MONDAY THROUGH FRIDAY. CONSTRUCTION EQUIPMENT THAT GENERATES NOISE WHICH EXCEEDS 65 dB AT THE PROJECT BOUNDARIES SHALL BE SHIELD TO THE COUNTY'S SATISFACTION AND SHALL BE LOCATED AT A MINIMUM OF 50 FEET FROM OCCUPIED RESIDENCES.

6. STONES LARGER THAN 6 INCHES IN DIAMETER SHALL NOT BE PLACED IN THE FILL, AND NO STONES LARGER THAN 3 INCHES IN DIAMETER BEING PLACED IN THE UPPER THREE FEET OF FILL. STONES LESS THAN 6 INCHES IN DIAMETER SHALL BE THOROUGHLY MIXED WITH THE SOIL, IN SUCH A MANNER THAT NO VOIDS IN THE FILL ARE CREATED.

7. EARTH MOVING AND WORKING OPERATIONS SHALL BE CONTROLLED TO PREVENT WATER FROM RUNNING INTO EXCAVATED AREAS. EXCESS WATER SHALL BE PROMPTLY REMOVED AND THE SITE KEPT DRY. FILL MATERIAL SHALL NOT BE PLACED, SPREAD, OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IS INTERRUPTED BY HEAVY RAIN, FILL AND DENSITY OF THE FILL ARE ABLE TO BE PLACED AND MEET THE SOILS ENGINEER INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE ABLE TO BE PLACED AND MEET THE REQUIRED COMPACTION. IN ADDITION TO THESE NOTES, ALL REQUIREMENTS CONTAINED IN THE SOILS REPORT PREPARED FOR EARTH SYSTEMS SOUTHERN CALIFORNIA SHALL BE CONFORMED TO.
 UNDERGROUND SERVICE ALERT (U.S.A.) SHALL BE CONTACTED AT (800) 422-4133, FORTY-EIGHT (48 START OF ANY GRADING OPERATIONS.
 PRIOR TO ANY CONSTRUCTION, A GRADING PERMIT SHALL BE OBTAINED FROM THE SANTA BARBARA AND DEVELOPMENT GRADING DIVISION.

8. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS NOT SUFFICIENT TO ACHIEVE REQUIRED COMPACTION, WATER SHALL BE ADDED UNTIL THE SOILS ATTAIN A MOISTURE CONTENT SO THAT THOROUGH BONDING IS ACHIEVED DURING THE COMPACTING PROCESS. WHEN THE MOISTURE CONTENT OF THE FILL MATERIAL IS EXCESSIVE, THE FILL MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHODS UNTIL THE MOISTURE CONTENT IS REDUCED TO AN ACCEPTABLE CONTENT TO ACHIEVE PROPER COMPACTION.

9. IMPORT SOILS SHALL BE GRANULAR NON-EXPANSIVE SOILS WHICH ARE EQUAL TO OR SUPERIOR IN QUALITY TO THE ON SITE SOILS AS DETERMINED BY THE SOILS ENGINEER PRIOR TO IMPORTATION OF THE FILL MATERIAL TO THE SITE. THE SOILS SHALL HAVE A MINIMUM 'R' VALUE OF 20 WHEN PROPOSED FOR ROADWAY SUPPORT.

10. IMPORT OR ON-SITE SOILS USED IN FILL OPERATIONS SHALL BE FREE FROM ORGANIC MATERIAL AND OTHER DELETERIOUS MATERIALS. DURING GRADING OPERATIONS THE SOILS ENGINEER SHALL BE FREE FROM ORGANIC MATERIAL AND OTHER DELETERIOUS CONTENT; AND IF AN EXCESS ORGANIC CONTENT IS FOUND IN THE FILL SOIL THEY MAY ISSUE A WRITTEN NOTICE OF NONCOMPLIANCE AND NOTIFY THE COUNTY. 11. COMPRESSIBLE SURFICIAL SOILS SHOULD BE REMOVED AND RECOMPACTED WHERE WALLS ARE PLANNED FOR THE PROJECT. THE REMOVAL AND RECOMPACTION SHOULD EXTEND TO A MINIMUM DEPTH OF TWO FEET BELOW THE BOTTOM OF THE WALL FOOTING. THE SOILS ENGINEER SHALL APPROVE THE SUBGRADE PRIOR TO CONSTRUCTION OF THE FOOTING. SEE SOILS REPORT FOR ADDITIONAL INFORMATION.

PLOT DATE: 11/12/2013 3: 49: 17 PM

PLOT SCALE:1:1

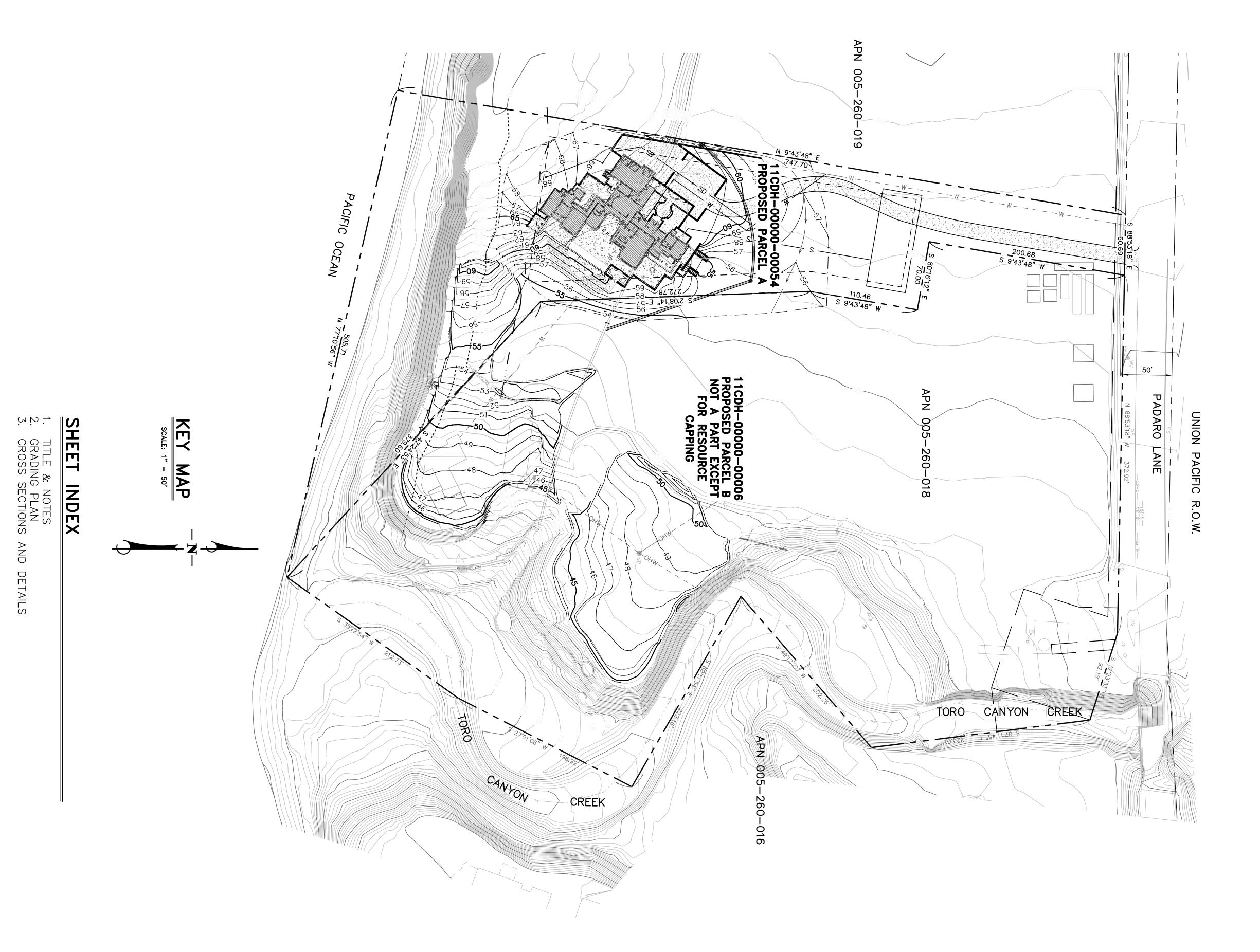
ADDITIONAL INFORMATION.

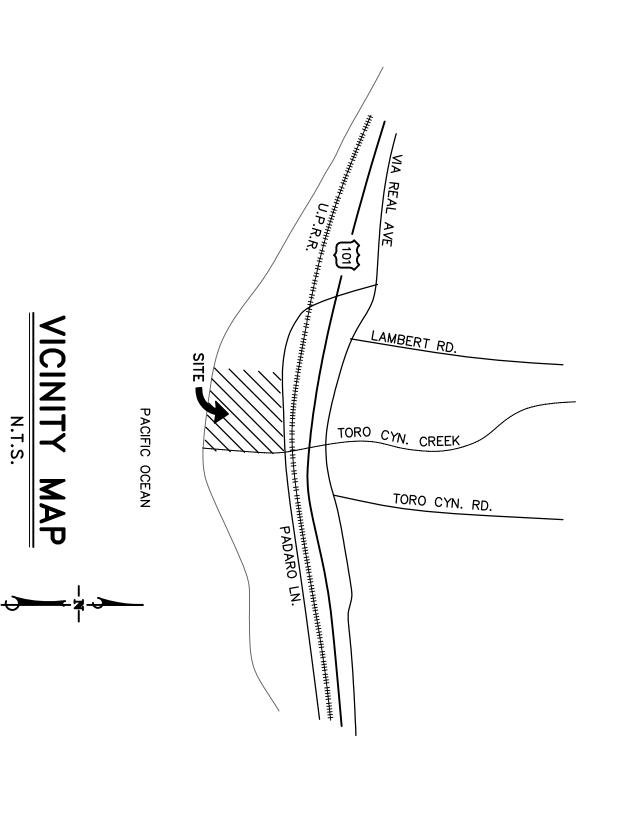
N STANDARD SHALL BE THE ASTM D 1557-78 METHOD OF COMPACTION.

IF FREE FROM DELETERIOUS MATERIAL MAY BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES IN DEPOPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.

OPTIMUM MOISTURE CONTENT AND INCHES OF SUBGRADE SOILS SHALL BE REMOVED AND COMPACTED

48-ENG SAVE DATE: 11/12/2013 3: 48: 49 PM PLOT BY: Josiah Jenison





SURVEYOR'S NOTES

THE ELEVATIONS SHOWN HEREON ARE NAVD88, BASED UPON TIES TO STATION 05-01, BEING A BRASS DISK SET IN MONUMENT WELL, MARKED "HPGN 05-01 19 REFERENCE NATIONAL GEODETIC SURVEY DATASHEET PID "EW9544" FOR STATION LOCATION. THE BOUNDARY INFORMATION SHOWN HEREON WAS COMPILED FROM RECORD DATA, AND IS FOR INFORMATIONAL PURPOSES ONLY. THIS SURVEY TIED TO SEVERAL WONUMENTS OF RECORD IN ORDER TO ORIENT THE TOPOGRAPHIC AND PLANIMETRIMAPPING TO THE COMPILED BOUNDARY. THIS MAP DOES NOT REPRESENT A SOUNDARY ESTABLISHMENT SURVEY. MAPPING

POGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=40', WITH A 1 FOOT POGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=40', WITH A 1 FOOT NOTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDU ARROWHEAD MAPPING CORPORATION, FROM AERIAL PHOTOGRAPHY AUGUST 30 NG IS SUPPLEMENTED BY DATA COLLECTED IN A FIELD SURVEY US ENTIONAL EQUIPMENT AND PROCEDURES IN DECEMBER, 2010, DTOGRAPHY

PHOTOGRAPHY USED AS THE BACKGROUND FOR THIS MAP WAS OBTAINE
T 30, 2006 BY ARROWHEAD MAPPING CORPORATION. THE PHOTOGRAPHY
CONVERTED INTO A DIGITAL FORMAT AND CORRECTED FOR HORIZONTAL
CAL DISTORTION USING STANDARD PHOTOGRAMMETRIC METHODS. BEARINGS FOR THIS SURVEY IS **SOUTH 88°53'18" EAST** FOR A PORTICH HERLY BOUNDARY LINE OF PARCEL "A" AS SHOWN ON PARCEL MAP BOOK 29, PAGE 72-73 IN THE OFFICE OF THE COUNTY SURVEYOR IN OF SANTA BARBARA, CALIFORNIA.

PROJE CONTA

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LEGEND 71' BLUFF RETREAT AND COASTAL COMMISSION FACTOR OF SAFETY SETBACK BLUFF RETREAT SETBACK PROPOSED MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED COUNTOUR PARCEL FYISTING ACCUPATED TO THE PROPOSED COUNTOUR PARCEL S

VIATIONS

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