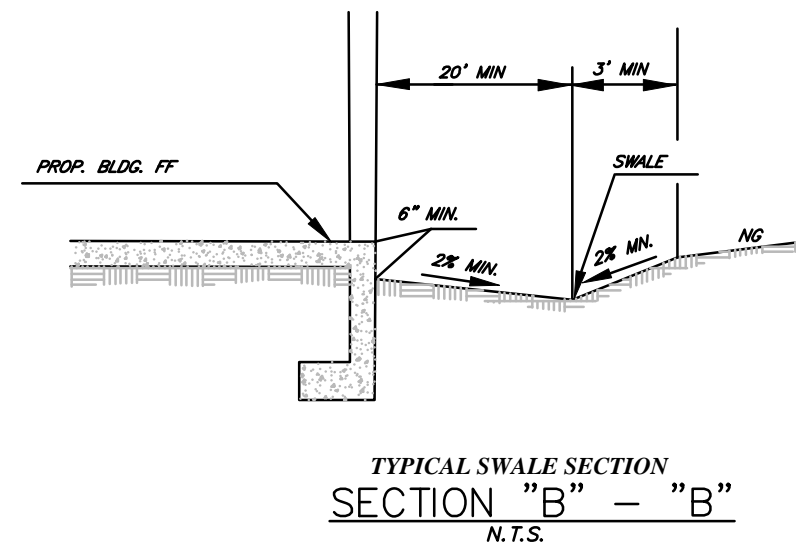
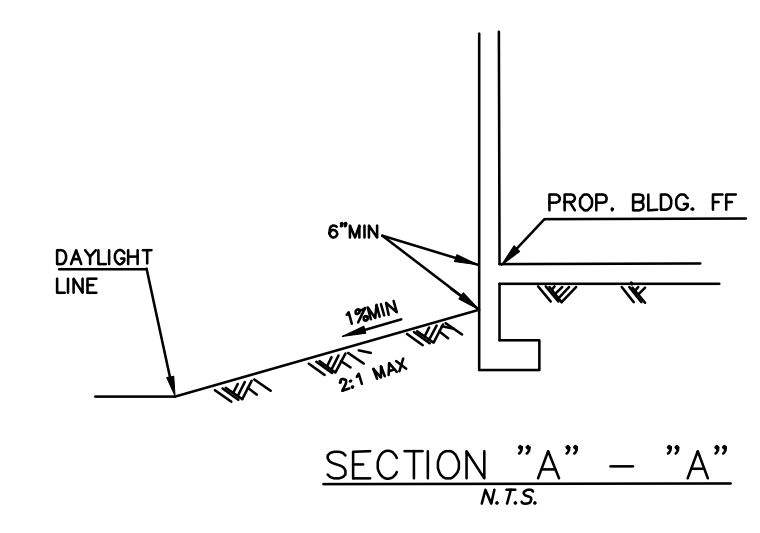
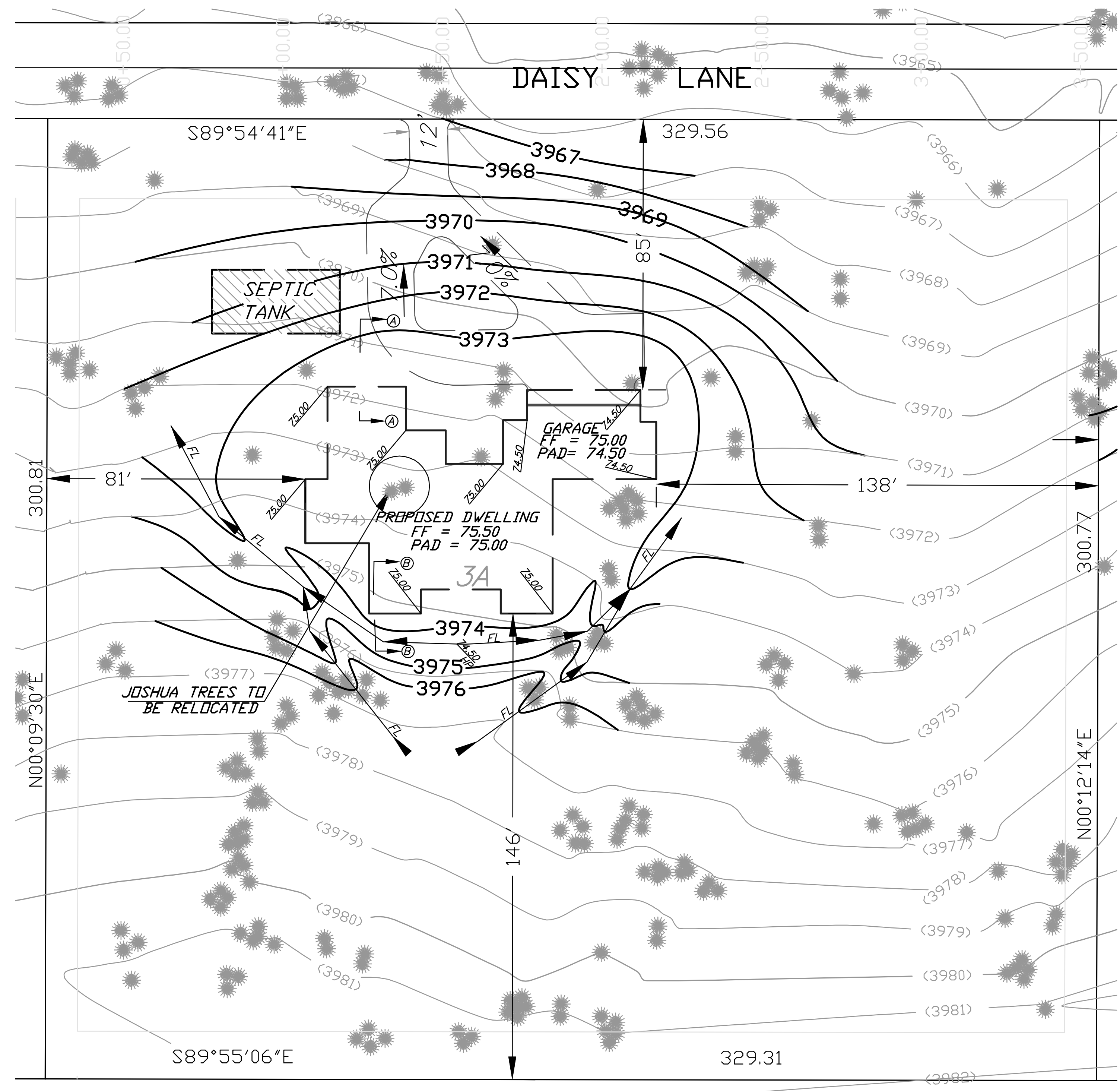
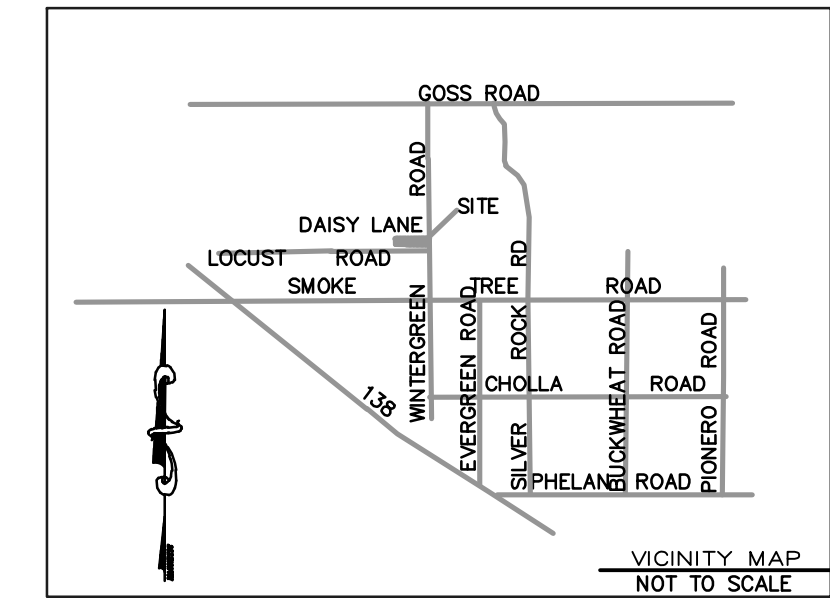


IN THE COUNTY OF SAN BERNARDINO
GRADING PLAN
APN 3068-301-13



STANDARD NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH TITLE 15 OF THE COUNTY OF SAN BERNARDINO MUNICIPAL CODE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK) LATEST EDITION, AND ANY SPECIAL REQUIREMENTS OF THE PERMIT.
2. APPROVAL OF THIS PLAN BY THE COUNTY OF SAN BERNARDINO DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR OF THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THIS PROJECT.
3. PROPOSED STARTING DATE: 07/01/2008.
4. CUT YARDAGE: 110 C.Y. FILL YARDAGE: 422 C.Y.
5. DUST SHALL BE CONTROLLED BY WATERING.
6. FINISH GRADING WILL BE COMPLETED AND APPROVED BEFORE OCCUPANCY OF BUILDINGS.
7. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE FROM DIRT AND/OR DEBRIS. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED IN STREET CLEANING NECESSITATED BY HIS OPERATION.
8. THE FACE OF ALL CUT AND FILL SLOPES SHALL BE PLANTED WITH A GROUND COVER APPROVED BY THE COUNTY ENGINEER.

SUPPLEMENTAL GRADING NOTES

1. NO FILL TO BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS AND INSTALLATION OF SUBDRAINS, IF ANY, HAS BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
2. NO ROCK OR SIMILAR MATERIAL 6" OR GREATER IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH BACKFILL HAVING BEEN SUBMITTED BY THE SOILS ENGINEER IN ADVANCE TEST APPROVED BY THE BUILDING OFFICIAL.
3. ALL EXISTING FILLS SHALL BE APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS OR REMOVED BEFORE ANY ADDITIONAL FILLS ARE ADDED.
4. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS AND SOILS ENGINEER PRIOR TO THE PLACING OF FILL.
5. FILL SHALL BE BENCHED IN COMPETENT MATERIAL AS REQUIRED IN SOILS REPORT.
6. THE SOILS ENGINEER SHALL BE RESPONSIBLE FOR THE PROFESSIONAL INSPECTION AND APPROVAL CONCERNING THE PREPARATION OF GROUND TO RECEIVE FILLS, TESTING FOR REQUIRED COMPACTION, STABILITY OF ALL FINISH SLOPES AND THE DESIGN OF BUTTRESS FILLS, WHERE REQUIRED, INCORPORATING DATA SUPPLIED BY THE ENGINEERING GEOLOGIST AND INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THEIR PURVIEW.
7. THE DESIGN CIVIL ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
8. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
9. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.

SPECIAL NOTE FROM PRIVATE ENGINEER TO CONTRACTOR:

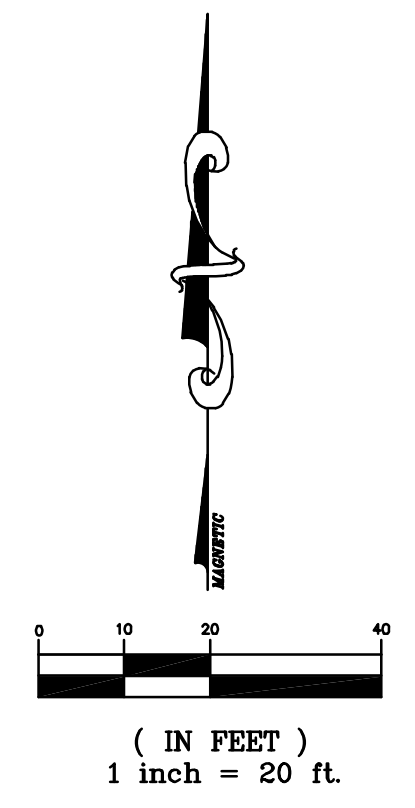
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WAS OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES TO VERIFY THE LOCATION AND ANY DISCREPANCY BETWEEN THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR ALSO AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

TESTING AND INSPECTION NOTES:

1. FILL TO BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED BY ASTM SOIL COMPACTION TEST D1557-70T.
2. NOT LESS THAN ONE FIELD DENSITY TEST WILL BE MADE FOR EACH 2 FEET VERTICAL LIFT OF FILL, NOR LESS THAN ONE SUCH TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED.
3. FIELD DENSITY WILL BE DETERMINED BY THE SAND-CONE METHOD ASTM D1556-64. IN FINE-GRAINED, COHESIVE SOILS FIELD DENSITY MAY BE DETERMINED BY THE DRIVE-CYLINDER METHOD, D937-71 ASTM PROVIDED NOT LESS THAN 20% OF THE REQUIRED DENSITY TESTS. UNIFORMLY DISTRIBUTED, ARE BY THE SAND CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
4. DENSITY TESTS WILL BE MADE AT POINTS APPROXIMATELY ONE FOOT BELOW THE FILL SURFACE. ONE TEST WILL BE MADE FOR EACH 1,000 SQUARE FEET OF SLOPE SURFACE, BUT NOT LESS THAN ONE TEST FOR EACH 10-FOOT VERTICAL OF SLOPE HEIGHT.
5. ALL PADS AT ROUGH GRADING WILL HAVE A MINIMUM SLOPE OF 1% TOWARD THE STREET OR DESIGNED DRAINAGE OUTLET.
6. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND INSPECTIONS MUST BE OBTAINED BEFORE POURING.
7. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE SOILS ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND-CONE, DRIVE-RING, OR OTHER APPROVED METHOD AND SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
8. ALL TRENCH BACKFILL SHALL BE TESTED AND APPROVED BY THE SITE SOILS ENGINEER PER THE GRADING CODE.

EARTHWORK NOTE:

EARTH WORK QUANTITIES ARE RAW ESTIMATES ONLY, THEY DO NOT REFLECT SUBSIDENCE OR ANY MATERIAL GENERATED BY UTILITY, TRENCHING AND BUILDING FOOTINGS. THE QUANTITIES SHOWN ABOVE ARE INTENDED FOR USE IN ESTABLISHING GOVERNING AGENCY FEES. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE QUANTITIES FOR BID PURPOSES. ANY EXPORT OR IMPORT REQUIRED TO BALANCE THE SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



APN 3068-301-13
ADDRESS: 1575 DAISY LANE, PHELAN

ABBREVIATIONS:	ABBREVIATIONS:
AB = AGGREGATE BASE	PM = PARKING METER POST
AC = ASPHALT PAVEMENT	PP = POWER POLE
BW = BACK OF WALK	PB = PULL BOX
CB = CATCH BASIN	PCC = PORTLAND CEMENT CONCRETE
CF = CURB FACE	RCE = REGISTERED CIVIL ENGINEER
CLF = CHAIN LINK FENCE	RW = RETAINING WALL
EG = EDGE OF GUTTER	SB = SPLASH BOX
EM = ELECTRIC METER	SDMH = STORM DRAIN MANHOLE
EMH = ELECTRIC MANHOLE	SMH = SEWER MANHOLE
EP = EDGE OF PAVEMENT	SPB = SIGNAL PULL BOX
EPB = ELECTRIC PULL BOX	ST. LT. = STREET LIGHT
EV = ELECTRIC VAULT	TC = TOP OF CURB
FF = FINISH FLOOR	TO = TOP OF GRATE ELEVATION
FG = FINISH GRADE	TEL.M.H. = TELEPHONE MANHOLE
FH = FIRE HYDRANT	TF = TOP OF FOOTING
FL = FINISH GRADE	TRW = TOP OF RET. WALL
FL = FLOW LINE	VB = ELECTRICAL VENTILATION BOX
FS = FINISH SURFACE	WM = WATER METER
GB = GRADE BREAK	WV = WATER VALVE
GM = GAS METER	(00.00) = EXISTING ELEVATION
HP = HIGH POINT	00.00 = PROPOSED ELEVATION
INV = INVERT ELEVATION	E --- = ELECTRICAL
LP = LOW POINT	G --- = GAS
LT = PARKING LOT LIGHT	W --- = WATER
MP = METAL POST	S --- = SEWER
NG = NATURAL GROUND	T --- = TELEPHONE
PA = PLANTER	

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DATE	BY

BENCHMARK

COUNTY OF SAN BERNARDINO

DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____

SUBMITTED BY: _____ CHIEF, TRAFFIC DIVISION _____ DATE _____

RECOMMENDED/APPROVED BY: _____ LAND DEVELOPMENT ENGINEER _____ DATE _____

LAND DEVELOPMENT ENGINEER _____ DATE _____ LAND DEVELOPMENT ENGINEER _____ DATE _____

GRADING PLAN
APN 3068-301-13

W.O. NO. _____

ROAD NO. _____

LIMITS _____

SHEET 1 OF 1