

CITY OF INDIO'S STANDARD GRADING NOTES

1. THE "CITY OF INDIO'S GENERAL NOTES" SHALL BE CONSIDERED PART OF THE "CITY OF INDIO'S GRADING NOTES."
2. ALL GRADING WORK SHALL CONFORM TO THE CITY OF INDIO'S GRADING ORDINANCE, THE ENGINEERED GRADING REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (C.B.C.), LATEST EDITION, AND SOILS REPORT, NO. _____, DATED: _____, PREPARED BY: _____, OF : _____, TELEPHONE NO. _____.
3. THE ENGINEERING DIVISION OF THE CITY OF INDIO'S PUBLIC WORKS DEPARTMENT (760-391-4019) SHALL BE CONTACTED PRIOR TO THE BEGINNING OF WORK TO SCHEDULE A PRE-GRADING MEETING. NO WORK MAY BEGIN UNTIL AFTER THE PRE-GRADING MEETING AND THE CITY ENGINEER HAS GIVEN HIS APPROVAL TO BEGIN.
4. THE SOILS ENGINEER OF RECORD AND REGISTERED CIVIL ENGINEER SIGNING THESE PLANS SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THEIR PURVIEW.
5. A GRADING PERMIT FROM THE CITY OF INDIO IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY WORK SHOWN ON THESE PLANS.
6. DURING ROUGH GRADING OPERATIONS, AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO OTHER PROPERTIES.
7. AFTER CLEARING AND GRUBBING, THE EXISTING GROUND SHALL BE SCARIFIED TO A MINIMUM OF 6" ON THE ENTIRE SITE OR AS RECOMMENDED IN THE SOILS REPORT. ALL WASTE (INCLUDING VEGETATION WASTE) SHALL BE REMOVED FROM THE SITE AS PART OF CLEARING AND GRUBBING.
8. THE MAXIMUM CUT AND FILL SLOPE SHALL BE 3 HORIZONTAL TO 1 VERTICAL (3:1).
9. ALL SLOPES ADJACENT TO THE PUBLIC RIGHT-OF-WAY SHALL BE SET BACK 2 FEET IF HEIGHT IS LESS THAN 10 FEET, AND 3' IF HEIGHT IS GREATER THAN 10 FEET.
10. PADS SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE DENSITY PER A.S.T.M. SPECIFICATIONS AND THE SOILS REPORT.
11. MINIMUM BUILDING PAD AND DRAINAGE SWALE SLOPES SHALL BE 0.50%. DRAINAGE SWALES SHALL BE A MINIMUM OF 5.0' FEET WIDE, AND SHALL BE CONTAINED ALL ON ONE PROPERTY. DRAINAGE SWALES SHALL BE 0.30' DEEP MINIMUM AND SHALL BE A MINIMUM OF 2.0' FROM THE TOP OF CUT OR FILL SLOPES.
12. ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF NINETY (90) PERCENT OF MAXIMUM DENSITY AS DETERMINED BY THE C.B.C., OR EQUIVALENT, AS APPROVED BY THE CITY ENGINEER. FIELD DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH THE C.B.C., OR EQUIVALENT, AS DETERMINED BY THE CITY ENGINEER.
13. ALL STREET SECTIONS SHOWN ON THE PLANS ARE MINIMUMS, PER STD. 171. ADDITIONAL SOIL TEST(S) SHALL BE TAKEN AFTER ROUGH GRADING TO DETERMINE IF A THICKER FINAL STREET STRUCTURAL SECTION IS REQUIRED. THE CITY ENGINEER SHALL APPROVE FINAL STREET SECTIONS IN WRITING AFTER SUBMITTAL OF "R" VALUE TESTS AND THE PRELIMINARY STRUCTURAL SECTION RECOMMENDATIONS. "R" VALUES SHALL BE TAKEN APPROXIMATELY EVERY 500 LINEAR FEET ALONG A ROADWAY, AND WHEN SOIL TYPE NOTICEABLY CHANGES.
14. PRIOR TO PLACING ANY CONCRETE, THE SOIL SHALL BE TESTED FOR "EXPANSIVENESS" AND FOR "HIGH SULFATES" AND A REPORT SHALL BE PROVIDED TO THE CITY. THE SOILS ENGINEER SHALL MAKE ANY NEEDED RECOMMENDATION IF EXPANSIVE OR HIGH SULFATED SOIL IS FOUND.

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Juan Raya 05/18/16
 JUAN RAYA, P.E. DATE
 CITY ENGINEER
 RCE 68510

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15. LOCATIONS OF FIELD DENSITY TESTS SHALL BE DETERMINED BY THE SOILS ENGINEER OF RECORD AND SHALL BE SUFFICIENT IN BOTH HORIZONTAL AND VERTICAL PLACEMENT TO PROVIDE REPRESENTATIVE TESTING OF ALL FILL PLACED AND ALL COMPACTION. TESTING IN AREAS OF A CRITICAL NATURE OF SPECIAL EMPHASIS SHALL BE IN ADDITION TO THE NORMAL REPRESENTATIVE SAMPLINGS. THE CITY ENGINEER MAY REQUIRE ADDITIONAL TESTS ON AN AS-NEEDED BASIS.
16. ALL UNDERGROUND FACILITIES, INCLUDING LATERALS, SHALL BE IN-PLACE AND INSPECTED PRIOR TO PLACING BASE (AND ASPHALT). THE FINAL BACKFILL REPORT FOR EACH UTILITY SHALL INCLUDE A SIGNED APPROVAL STATEMENT FROM THE SOILS ENGINEER OF RECORD THAT THE BACKFILL IS SUITABLE FOR ITS INTENDED USE.
17. BLOCK WALLS ARE NOT PART OF THE GRADING PERMIT. SUBMIT FOR SEPARATE BUILDING PERMIT(S).
18. THE CONTRACTOR SHALL PROVIDE EROSION AND DUST CONTROL MEASURES AS REQUIRED BY THE FUGITIVE DUST CONTROL PLAN APPROVED FOR THIS PROJECT. DUST CONTROL IS REQUIRED CONTINUOUSLY, EVEN WHEN NO WORK IS TAKING PLACE.
19. THE CONTRACTOR IS REQUIRED TO PREVENT STORMWATER POLLUTION PER THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID #) FOR THIS PROJECT IS: _____ . A NEW WDID # WILL NEED TO BE OBTAINED SHOULD THE OWNERSHIP OF THE PROJECT CHANGE.
20. AFTER GRADING, AND PRIOR TO ISSUANCE OF ANY BUILDING PERMIT(S), THE REGISTERED CIVIL ENGINEER (R.C.E.) WHO SIGNED THE PLANS SHALL CERTIFY THAT THE ROUGH GRADING HAS BEEN COMPLETED AND THE SITE CONFORMS TO THE GRADING PLAN AS TO LINE AND GRADE.
21. AFTER GRADING, AND PRIOR TO ISSUANCE OF ANY BUILDING PERMIT(S), TWO SETS OF THE FINAL SOILS REPORTS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL. THE SOILS REPORT SHALL REFLECT THE FACT THAT THE COMPACTION HAS BEEN OBTAINED NOT ONLY IN THE BUILDING PAD LOCATIONS, BUT IN THE REMAINDER OF THE SITE, INCLUDING THE SLOPES, TRENCH BACKFILL LOCATIONS, DRIVEWAY LOCATIONS, AND THE PROPOSED ROADWAYS. FINAL SOILS GRADING CERTIFICATION SHALL BE SUBMITTED BY THE SOILS ENGINEER OF RECORD SHOWING THAT THE FINAL GRADING CONFORMS TO BOTH THE CALIFORNIA BUILDING CODE (C.B.C.) AND THE APPROVED GRADING PLAN. THE FINAL COMPACTION REPORT SHALL ALSO CONTAIN THE LOCATION OF EACH TEST, THE VALUE OF EACH TEST, THE MAXIMUM UNIT DENSITY USED, AND THE TYPE OF FIELD TESTING PERFORMED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATION SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED IN DETERMINING THE RELATIVE AMOUNT OF COMPACTION.

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