GRADING NOTES

(Effective July 1, 2018)

1. Grading shall be in accordance with chapter 18 of California Building Code, Latest Edition, and/or Soils Report,

No. _____ Dated: Prepared By: Telephone No.

- 2. The soils engineer and the engineering geologist shall exercise sufficient supervisory control during grading to ensure compliance with the plans, specifications and code within their purview.
- 3. The design civil engineer shall exercise sufficient control during grading and construction to ensure compliance with the plans, specifications and code within his purview.
- 4. 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 adjacent property.
- 5. After clearing, existing ground shall be scarified to a minimum of 6" on the entire site or as recommended by the soils report.
- 6. Cut and fill slopes shall be no steeper than 2:1.
- 7. Pads shall be compacted to a minimum of 90% relative density per A.S.T.M. specifications and the above mentioned soils report.
- 8. Minimum building pad drainage shall be 2%. Drainage swales shall be a minimum of 0.3' deep and be constructed a minimum of 2' from the top of cut or fill slopes. The minimum slope of swales shall be0.50%.
- 9. All fills shall be compacted to a minimum of ninety (90) percent of maximum density as determined by the California Building Code or equivalent as approved by the City Engineer. Field density shall be determined in accordance with the California Building Code, or equivalent, as determined by the City Engineer.
- 10. All street sections are tentative. The minimum section is 3" A.C. over 4.5" class II base. Additional soil test(s) shall be required after rough grading to determine exact section requirements. The City Engineer Shall approve the final street section.
- 11. The City Engineer will review for approval the final street sections after submittal of "R" value tests for roadway sub-base.
- 12. Locations of field density tests shall be determined by the Soils Engineer or approved test agency and shall be sufficient in both horizontal and vertical placement to provide representative testing of all fill placed. testing in areas of a critical nature of special emphasis shall be in addition to the normal representative samplings.
- 13. 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 and shall be so noted for each test. Sufficient maximum density determination shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- 14. All underground facilities, with laterals, shall be in place and inspected prior to paving, including but not limited to the following: sewer, water, electric, gas and drainage. The curb shall be "etched" showing all lateral locations "S" For Sewer, "G" for gas, etc...
- 15. The final utility line backfill report from the project Soils Engineer shall include an approval statement that the backfill is suitable for the intended use.
- 16. Block walls permits are not part of the Grading Permit. Submit for separate Building Permit(s).
- 17. The Contractor is responsible to prevent silt contamination of stormwater infiltration facilities during construction. Immediately prior to final acceptance of storm drainage retention/infiltration facilities, the Contractor shall conduct, in the presence of the City Inspector, a performance test designed to clearly demonstrate the functional adequacy of the facilities.
- 18. The Contractor shall provide wind erosion and dust control measures as required by the Fugitive Dust Control Plan (PM-10 PLAN) approved for this project.
- 19. The Contractor shall provide erosion control measures as required by the Erosion Control Plan approved for this project.
- 20. Prior to the installation of any hard surface or the building pad, the design Engineer or Architect shall provide the City Engineering Inspector and the City Chief Building Official with a certified letter stating that all critical areas of ADA accessibility, pedestrian path-of-travel, ADA parking areas, ramps, runs or other associated structures as requested by the Inspector have been constructed per plan and the Engineer and/or Architect certifies these items will meet all plan, ADA, Building Code, CALBO or similar code requirements.

PAVING NOTES

(Effective July 1, 2018)

- 1. All underground facilities, including service laterals, shall be in place with trenches compacted and tested prior to base grade inspection and paving. The Contractor shall submit written evidence to the City, issued by the respective utility purveyor, indicating the subsurface portion of their underground facilities have been installed and accepted.
- 2. A separate permit is required for all excavations within existing roadways and travelways. Lane closures and detours shall be posted, delineated and lighted in conformance with The Standards and Guidelines for Temporary Traffic Control Zone per latest edition of CA-MUTCD and any additional requirements deemed necessary by the City Engineer.
- 3. Asphalt concrete paving, except for overlays, shall be installed in two (2) or more courses with mix designs that conform to section 400.3.2 of the standard specifications (Green Book) noted as follows:

Wearing Course (Upper Course): PG-70-10 (½" MIN.)

Base Course (Lower Course): PG-70-10 (¾" MIN.)

- 4. The wearing course shall be 0.1 feet thick. The base course(s) shall contain the balance of the required asphalt concrete thickness. At least seven (7) days prior to commencement of paving operations, the Contractor shall submit for City approval a complete proposed mix design identifying the mix characteristics such as: aggregate gradations, voids in mineral aggregate, (VMA) air voids and S-Value for various oil contents for each mix.
- 5. A tack coat shall be applied to existing pavement, P.C.C. Surfaces and the A.C. base course, if traffic has driven on it. The tack coat shall be slow setting anionic emulsified asphalt type "SS-1H" conforming to Section 203-3 of the Standard Specifications. The liquid asphalt shall be grade 60-70 and applied at the rate of 0.1 Gal/SY.
- 6. New improvements that join existing improvements shall match in a manner satisfactory to the City Engineer. Construction operations required to achieve a safe, durable and aesthetically pleasing transition between the new and existing improvements, may include saw cutting, removal, replacement, capping, and/or cold planning, as needed.

SEAL

PREPARED BY:

- 7. All manholes and valve box frames shall be adjusted to final grades after pavement installation is completed.
- 8. The curb shall be etched or stamped showing utility service lateral locations as follows: "S" for sewer, "G" for gas, and "E" for electrical power.

GENERAL NOTES

(Effective September 9, 2020)

- 1. All work shall be done in accordance with the standard plans of the City of Cathedral City and the Standard Specifications for Public Works Construction, latest edition (Green Book), and the City of Cathedral City Standard Plans (County of Riverside Standard Plans Ordinance No. 461, 2017 edition), or latest edition and any City issued individual standards. Traffic signals & appurtenances shall be constructed to the State of California Standard Plans and specifications, as well as the above.
- 2. City policy requires an Engineered Grading Plan to be approved and signed by the City Engineer for all commercial and residential sites.
- 3. It shall be the responsibility of the developer/owner or Contractor to apply to the City of Cathedral City Engineering Department for the necessary permits and to be responsible for satisfactory compliance with all current environmental regulations during the life of construction activities for this Project. Additional studies and/or permits may be required.
- 4. It shall be the responsibility of the developer or Contractor to apply to the California Department of Transportation (Caltrans) for an Encroachment Permit for all work performed within State right of way.
- 5. The Contractor shall obtain all permits as required by the City of Cathedral City or other governing agencies prior to commencing any work.
- 6. The Contractor shall notify the City Engineering Department 48 hours prior to any grading, grubbing, brushing or clearing and each phase of construction at (760) 770-0367 at least 24 hours prior to requesting inspections.
- 7. The locations of existing underground utilities are shown in an approximate way only. The Contractor shall determine the exact location of all existing utilities before commencing work. He agrees to be fully responsible for any, and all damages which might be occasioned by the failure to exactly locate and preserve all utilities. The Contractor shall contact Underground Service Alert (DigAlert) at 811 or at 1-800-422-4133, 48 hours prior to making any cuts or excavation per California Government Code Section 4216.- 4216.24.
- 8. The Contractor shall be responsible for the removal, replacement or relocation of all regulatory, warning and guide signs in a manner consistent with the Traffic Manual and all ADA, and/or applicable City Regulations.
- 9. Street name signs and traffic control signs, type and location shall be approved by the City Engineer. Traffic striping, legends and pavement markers, type and location shall be approved by the City Engineer.
- 10. The Contractor shall not disturb existing survey monuments or bench marks noted on the plans, or found during construction.

 Removal and replacement shall be done by a Registered Civil Engineer with an R.C.E. Number Below 33,966, or a licensed land surveyor, only
- 11. Construction operations and maintenance of equipment shall be performed only during the time periods as follows; per chapter 11.96 of the municipal code:

October 1st to April 30th: Monday - Friday 7:00 am to 5:30 pm

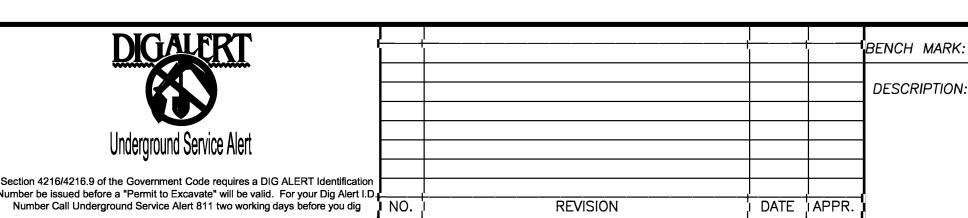
sturday 8:00 am to 5:00 pm no permissible hours

State holidays provided by the California code no permissible hours

May 1st to September 30th:
Monday - Friday 6:00 am to 7:00 pm
Saturday 8:00 am to 5:00 pm

Sunday no permissible hours
State holidays provided by the California code no permissible hours

- 12. All traveled ways must be cleaned daily of all dirt, mud and debris deposited on them as a result of the construction operations. Cleaning is to be done to the satisfaction of the City Engineer.
- 13. All construction areas shall be properly posted and lighted in conformance with The Standards and Guideline for Temporary Traffic Control Zone per the latest edition of the Cal-MUTCD.
- 14. Construction projects disturbing an area of one-acre or more, or disturb less than an acre, but are part of a larger common plan of development or sale must obtain a National Pollutant Discharge Elimination System (NPDES) permit and install City-approved full trash capture devices in all catch basins and inlets on perimeter of site.
- 15. Construction projects proposing to install underground injection wells and dry wells are required to register each device with the U.S. Environmental Protection Agency (EPA) for Region 9.
- 16. Owners/developers are required to file a notice of intent (NOI) with the State Water Resources Control Board (SWRCB) and prepare a Storm Water Pollution Prevention Plan (SWPPP) for the site. The National Pollutant Discharge Elimination System is a national program to control non-point source pollutants carried by storm water. The program is implemented and enforced by the State Water Resources Control Board.
- 17. At no time shall private property be used in conjunction with the project unless prior permission from the property owner is obtained in writing and evidence is provided to the City Engineer.
- 18. Prior to the installation of any hard surface or the building pad, the design Engineer or Architect shall provide the City Engineering Inspector and the City Chief Building Official with a certified letter stating that all critical areas of ADA accessibility, pedestrian path-of-travel, handicapped parking areas, ramps, runs or other associated structures as requested by the Inspector have been formed per plan and the Engineer and/or Architect certifies these items will meet all plan and ADA, Building Code, CALBO or similar code requirements.
- 19. Contractor to work with City Inspector to make and not limited to city approved field modifications to ensure, grades, slopes, ADA requirement all work.
- 20. All new and/or reconstructed storm drain inlets, both on and off site, will be equipped with a City approved full capture trash/filtration/basket device. Additional oil/chemical absorbing insert will be required if the site will be used for automotive purposes and/or any other purposes that may release oil/chemicals into the groundwater as determined by the Director of Engineering/Public Works.



APPROVED FOR PERMITTING PURPOSES ONLY:

ARMANDO J. GARCIA BALDIZZONE P.E.
R.C.E. 70102 ~ CITY ENGINEER

RECOMMENDED FOR APPROVAL BY:

DATE

ENGINEERING FIRM LOGO & INFORMATION

DATE

TYPE OF IMPROVEMENTS
TEXT
TEXT

TEXT

TEXT

