SECTION 501
PORTLAND CEMENT CONCRETE
DESCRIPTION

501.01.01 GENERAL
A. This work shall consist of Portland cement, fine aggregate, coarse aggregate, water and when specified, an air entraining admixture, proportioned, mixed, placed, and cured as herein specified. All concrete shall meet the most current requirements of American Concrete Institute (ACI) with the following additions and/or exceptions indicated in this specification.
B. As used in this section, the term Portland Cement shall be considered synonymous with the term Hydraulic Cement.

501.01.02 QUALITY CONTROL TESTING AND INSPECTION
A. The testing and inspection of Portland cement concrete shall comply with this specification. The inspection of the mixing plant shall comply with the ACI 311, Chapter 2. In Clark County unincorporated areas and if required by other Contracting Agencies, all field and laboratory sampling and testing for project control shall be performed by NAQTC or ACI certified technicians in an AASHTO or A2LA accredited laboratory. The concrete designs shall comply with Tables 1 and 2 and the IQAC website http://www.clarkcountynv.gov/Depts/public_works/construction_mgmt/Pages/Materials.aspx or comply with Contracting Agency requirements.
B. Testing reports shall be distributed to the owner, licensed design professional responsible for the design, Contractor, appropriate subcontractors, appropriate suppliers, and building official within seven calendar days to allow timely identification of either compliance or the need for corrective action.

02MATERIALS

501.02.01 GENERAL
A. Materials shall meet the requirements of the following sections and subsections:

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<td>Water</td>
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501.02.02 GRADATION REQUIREMENTS
A. Refer to ACI 304R Chapters 2.1 and 2.2, and comply with the gradation requirements specified in Section 706, "Aggregates for Portland Cement Products," and the following:
1. The gradation requirements represent the extreme limits in determining the suitability of material. The gradation from any one source shall maintain a uniformity