## TABLE 3

**TESTING FOR REQUIRED SPECIAL INSPECTION**

**REFER TO SPECIFICATION SECTION 01 45 33**

| MATERIAL | TYPE OR SCOPE | STANDARD | 2009 IBC CODE REFERENCE | FREQUENCY | BY WHOM | REQUIRED REPORTING TO DESIGNATED DISTRIBUTION LIST | COMMENTS |
|---|---|---|---|---|---|---|---|
| GEOTECHNICAL | | | | | | | |
| BACKFILL | GRADATION | ASTM D422 | 1704.7 | SECTION 31 23 23, FILL AND BACKFILL | OWNER'S APPROVED TESTING AGENCY | X | |
| BACKFILL | DENSITY | ASTM D1556, D2922 | 1704.7 | SECTION 31 23 23, FILL AND BACKFILL | OWNER'S APPROVED TESTING AGENCY | X | |
| PREPARED SUBGRADE | DENSITY | ASTM D1556, D2922 | 1704.7 | SECTION 31 23 13, SUBGRADE PREPARATION | OWNER'S APPROVED TESTING AGENCY | X | |
| CONCRETE | | | | | | | |
| CONCRETE | STRENGTH | ASTM C39 | 1704.4, 1905.6 | ONCE EACH DAY, BUT NOT LESS THAN ONE SAMPLE FOR EACH 150 CUBIC YARDS OR 5,000 SFT OF WALLS OR SLABS PLACED | OWNER'S TESTING AGENCY | X | |
| CONCRETE | SLUMP | ASTM C143, C94 | 1704.4 | ONE SAMPLE PER STRENGTH TEST | OWNER'S TESTING AGENCY | X | |
| CONCRETE | AIR CONTENT | ASTM C231, C94 | 1704.4 | ONE SAMPLE PER STRENGTH TEST | OWNER'S TESTING AGENCY | X | |
| CONCRETE | TEMPERATURE | ASTM C1064 | 1704.4 | ONE SAMPLE PER STRENGTH TEST | OWNER'S TESTING AGENCY | X | |
| MASONRY | | | | | | | |
| CONCRETE MASONRY | UNIT STRENGTH | ASTM C140 | 2105.2.2.1.2 | TEST 5 UNITS PER EVERY 50,000 OR FRACTION THEREOF PRIOR TO CONSTRUCTION | OWNER'S TESTING AGENCY | X | |
| MASONRY | COMPRESSIVE STRENGTH OF GROUT | ASTM C1019 | 2105.2.2.1 | THREE SAMPLES PRIOR TO CONSTRUCTION | OWNER'S TESTING AGENCY | X | |
| MASONRY | PRISM | ASTM C1314 | 2105.2.2.2 | TEST THREE PRISMS PRIOR TO CONSTRUCTION | OWNER'S TESTING AGENCY | X | |

## TABLE 4

**REQUIRED SPECIAL INSPECTION FOR SEISMIC RESISTANCE FOR STRUCTURAL SYSTEMS**

**REFER TO TABLE 2 FOR STANDARD STRUCTURAL SPECIAL INSPECTION REQUIREMENTS**

The Seismic Design Category (SDC) for this Project is B.

| SYSTEM | 2009 IBC CODE REFERENCE | STANDARD OR CODE | PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1) | CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION | REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST | COMMENTS FOR DETAILS, REFER TO SPECIFICATION SECTION 01 45 33 | TESTING FOR SPECIAL INSPECTION |
|---|---|---|---|---|---|---|---|
| THIS TABLE NOT REQUIRED FOR THIS PROJECT | | | | | | | |

## TABLE 5

**REQUIRED SPECIAL INSPECTION FOR WIND RESISTANCE FOR STRUCTURAL SYSTEMS**

The 3-second-gust Basic Wind Speed for this Project is 90 mph.
The Wind Exposure is Category C.

| SYSTEM | 2009 IBC CODE REFERENCE | STANDARD OR CODE | PERIODIC OWNER FURNISHED SPECIAL INSPECTION (SEE NOTE 1) | CONTINUOUS OWNER FURNISHED SPECIAL INSPECTION | REQUIRED REPORTING BY SPECIAL INSPECTOR TO DESIGNATED DISTRIBUTION LIST | COMMENTS FOR DETAILS, REFER TO SPECIFICATION SECTION 01 45 33 |
|---|---|---|---|---|---|---|
| THIS TABLE NOT REQUIRED FOR THIS PROJECT. | | | | | | |

## TABLE 6

**TESTING FOR SEISMIC RESISTANCE**

**REFER TO SPECIFICATION SECTION 01 45 33**

| MATERIAL | TYPE OR SCOPE | STANDARD | 2009 IBC CODE REFERENCE | FREQUENCY | BY WHOM | REQUIRED REPORTING TO DESIGNATED DISTRIBUTION LIST | COMMENTS |
|---|---|---|---|---|---|---|---|
| THIS TABLE NOT REQUIRED FOR THIS PROJECT | | | | | | | |

COMMONWEALTH OF VIRGINIA
LIN ZHANG
Lic. No. 042864
7-1-2014
PROFESSIONAL ENGINEER

| NO. | DATE | REVISION | BY | APVD |
|---|---|---|---|---|
| DSGN | L ZHANG | DR JC HALEO | CHK J ALLEN | APVD J ALLEN |

CRYSTAL SPRING WATER TREATMENT PLANT
CLEARWELL REPLACEMENT
WESTERN VIRGINIA WATER AUTHORITY
CITY OF ROANOKE, VIRGINIA

CH2MHILL.

STRUCTURAL

SPECIAL INSPECTION NOTES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

| | |
|---|---|
| DATE | JUNE 2014 |
| PROJ | 475481 |
| DWG | S-0003 |
| SHEET | 14 of 37 |

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