

## XML Submission Example

The following gives an example of XML submission format.

### IQFSample.xml

---

```
<?xml version="1.0" encoding="UTF-8" ?>
- <form name="DB-115-1" version_no="1.0" key="0020905270501151" date="2009-05-
27T00:00:00" display_key="00209052705">
  <owner_name value="CQAF" />
  <security username="CQAFDataXfer" password="*****" />
- <header>
  <column name="sample_id" value="00209052705" />
  <column name="sampled_date" value="5/27/2009 12:00:00 AM" />
  <column name="sample_type" value="Random Independent" />
  <column name="split_sample_id" />
  <column name="report_type" value="Original" />
  <column name="section" value="5.1" />
  <column name="sampled_by" value="Al Jones" />
  <column name="spec_year" value="2004" />
  <column name="material" value="14" />
  <column name="spec_item" value="247" />
  <column name="supplier" value="Pit" />
  <column name="special_provision" />
  <column name="structure_number" />
  <column name="grade" value="1" />
  <column name="sample_location" />
  <column name="feature" value="Mainlane" />
  <column name="course_lift" value="2" />
  <column name="station" value="342+49" />
  <column name="dist_from_cl" value="5' LT" />
  <column name="misc" />
  <column name="roadway" value="Loop 375" />
  <column name="direction" value="NB" />
</header>
- <test name="DB-115-1">
- <!--
This can be the same value as the form name.
-->
- <table name="VALUE_DB115_1">
- <row>
  <column name="determined_by_test_method" value="DB-113-E" />
```

```
<column name="max_dry_density_pcf" value="132.5" />
<column name="optimum_moisture_content_pct" value="7.7" />
<column name="density_standard" value="4200" />
<column name="moisture_standard" value="420" />
<column name="density_count" value="1045" />
<column name="moisture_count" value="231" />
<column name="probe_depth" value="10" />
<column name="wet_density_pcf" value="140.5" />
<column name="dry_density_pcf" value="133.5" />
<column name="moisture_content_pct" value="5.2" />
<column name="gauge_no" value="3242" />
<column name="moisture_content_pct_pass_fail" />
<column name="density_pct" value="100.7" />
<column name="density_pct_pass_fail" />
<column name="density_specification_req_max" />
<column name="moisture_specification_req_max" />
<column name="soil_desc" />
<column name="density_specification_req_min" value="100" />
<column name="moisture_specification_req_min" value="5.2" />
<column name="tested_by" value="Al Jones" />
<column name="tested_date" value="5/27/2009 12:00:00 AM" />
<column name="stamp_code" value="1" />
</row>
</table>
</test>
=<footer>
<column name="remarks" />
<column name="reviewed_by" />
<column name="completed_date" />
<column name="authorized_by" />
<column name="authorized_date" />
</footer>
</form>
```

## I2MS Test Form Fields

### Purpose

The purpose of this document is to provide information on the tables and fields within I2MS.

### Material Test Forms

Material Test Forms are forms used to run tests for a sample. A test form contains header and footer information that all forms have in common. Each test form also has a form body containing fields specific to the test method(s) being performed.

### Header Fields

The header information is the metadata of the form. It is vital for searching for and analyzing records. All of the test forms have similar header information.

Table Name: HEADER\_VALUE\_OVT

Maximum Rows: 1

| Field Description | Field Name        | Datatype | Length | Values                                    |
|-------------------|-------------------|----------|--------|---|
| Course Lift       | course_lift       | nvarchar | 250    |   |
| Direction         | direction         | nvarchar | 250    | CVL                                       |
| Distance From CL  | dist_from_cl      | nvarchar | 250    |   |
| Feature           | feature           | nvarchar | 250    | CVL                                       |
| Grade             | grade             | nvarchar | 100    | CVL                                       |
| Material          | material          | nvarchar | 100    | CVL                                       |
| Misc              | misc              | nvarchar | 250    |   |
| Report Type       | report_type       | nvarchar | 250    | CVL                                       |
| Roadway           | roadway           | nvarchar | 250    | CVL                                       |
| Sample ID         | sample_id         | nvarchar | 13     |   |
| Sample Location   | sample_location   | nvarchar | 250    |   |
| Sample Type       | sample_type       | nvarchar | 100    | CVL                                       |
| Sampled By        | sampled_by        | nvarchar | 250    | CVL                                       |
| Sampled Date      | sampled_date      | datetime |        | MM/dd/yyyy                                |
| Section           | section           | nvarchar | 100    | CVL                                       |
| Spec Item         | spec_item         | nvarchar | 100    | CVL                                       |
| Spec Year         | spec_year         | nvarchar | 250    |   |
| Special Provision | special_provision | nvarchar | 250    | CVL                                       |
| Split Sample ID   | split_sample_id   | nvarchar | 250    |   |
| Station           | station           | nvarchar | 250    | Pattern: [0-9]+\+[0-9][0-9](\.[09][0-9])? |
| Structure Number  | structure_number  | nvarchar | 250    | CVL                                       |

| Field Description | Field Name | Datatype | Length | Values |
|-------------------|------------|----------|--------|--------|
| Supplier          | supplier   | nvarchar | 100    | CVL    |

## Footer Fields

The footer contains approval data and comments for each of the test forms.

Table Name: FOOTER\_VALUE\_OVT

Maximum Rows: 1

| Field Description      | Field Name      | Datatype      | Length | Values     |
|------------------------|-----------------|---------------|--------|------------|
| Authorized By          | authorized_by   | nvarchar      | 100    | CVL        |
| Authorized Date        | authorized_date | smalldatetime |        | MM/dd/yyyy |
| Completed Date         | completed_date  | smalldatetime |        | MM/dd/yyyy |
| Digital Signature ID 1 | dig_sig_id1     | int           |        |            |
| Digital Signature ID 2 | dig_sig_id2     | int           |        |            |
| Remarks                | remarks         | text          |        |            |
| Reviewed By            | reviewed_by     | nvarchar      | 100    | CVL        |

## Body Fields

Dynamic Cone Penetration (ASTM-D6951-DCP) using Modulus

Table Name: VALUE\_ASTM\_DCP

Maximum Rows: 1

| Field Description                                   | Field Name     | Datatype      | Length  | Values     |
|---|----------------|---------------|---------|------------|
| Design Modulus (ksi)                                | designModulus  | decimal       | (19, 8) |            |
| Min. Allowable Modulus per thickness Interval (ksi) | minModulus     | decimal       | (19, 8) |            |
| Drilling Depth (in)                                 | drillingDepth  | decimal       | (19, 8) |            |
| Thickness Interval 0"-6"                            | interval06     | decimal       | (19, 8) |            |
| Thickness Interval 6"-12"                           | interval612    | decimal       | (19, 8) |            |
| Thickness Interval 12"-18"                          | interval1218   | decimal       | (19, 8) |            |
| Thickness Interval 18"-24"                          | interval1824   | decimal       | (19, 8) |            |
| Thickness Interval 24"-30"                          | interval2430   | decimal       | (19, 8) |            |
| Thickness Interval 30"-36"                          | interval3036   | decimal       | (19, 8) |            |
| Average   | modulusAverage | decimal       | (19, 8) |            |
| Stamp Code  | Stamp_code     | Int           |         | CVL        |
| Tested By   | tested_by      | nvarchar      | 100     | CVL        |
| Tested Date   | tested_date    | smalldatetime |         | MM/dd/yyyy |

Pulverization Gradation (DB-101-E, Part III)

Table Name: VALUE\_DB101\_3E\_TEST

Maximum Rows: 1

| Field Description        | Field Name            | Datatype | Length | Values                 |
|--------------------------|-----------------------|----------|--------|------------------------|
| Individual or Cumulative | individual_cumulative | nvarchar | 100    | Individual, Cumulative |
| Minus #40 Sieve          | negative_no_40        | nvarchar | 100    |                        |
| Total Weight             | total                 | nvarchar | 100    |                        |
| Test Method              | test_method           | nvarchar | 100    |                        |
| Tested By                | tested_by             | nvarchar | 100    |                        |
| Tested Date              | tested_date           | datetime |        | MM/dd/yyyy             |
| Stamp Code               | stamp_code            | int      |        |                        |

Table Name: VALUE\_DB101\_3E\_SIEVE

Maximum Rows: 1

| Field Description              | Field Name                 | Datatype | Length  | Values  |
|--------------------------------|----------------------------|----------|---------|---|
| Sieve Size                     | sieve_size                 | nvarchar | 100     | 3", 2-1/2", 2", 1-3/4", 1-1/2",<br>1", 7/8", 3/4", 1/2", 3/8", No.4,<br>No.8, No.16, No.30, No.40,<br>No.50, No.100, No.200 |
| Weight Retained                | weight_retained            | decimal  | (19, 8) |   |
| Cumulative Weight Retained     | cumulative_weight_retained | decimal  | (19,8)  |   |
| Cumulative Percent Passing     | cumulative_pct_passing     | decimal  | (19, 8) |   |
| Lower Specification Limit      | lower_spec_limit           | decimal  | (19, 8) |   |
| Upper Specification Limit      | upper_spec_limit           | decimal  | (19, 8) |   |
| Within Master Gradation Limits | master_grading             | nvarchar | 100     | Yes, No   |

**Moisture Content of Aggregates (DB-103-E)**

**Table Name: VALUE\_DB103E**

**Maximum Rows: 1**

| Field Description                   | Field Name       | Datatype      | Length  | Values     |
|-------------------------------------|------------------|---------------|---------|------------|
| Dish No.                            | dish_no          | nvarchar      | 100     |            |
| Mass of Dry Sample                  | dry_sample_tare  | decimal       | (19, 8) |            |
| Moisture Content                    | moisture_content | decimal       | (19, 8) |            |
| Payable Weight of Class 2 Flex Base | payable_weight   | decimal       | (19, 8) |            |
| Stamp Code                          | stamp_code       | int           |         | CVL        |
| Tare Mass                           | tare_mass        | decimal       | (19, 8) |            |
| Tested By                           | tested_by        | nvarchar      | 100     | CVL        |
| Tested Date                         | tested_date      | smalldatetime |         | MM/dd/yyyy |
| Mass of Wet Sample Tare             | wet_sample_tare  | decimal       | (19, 8) |            |
| Wet Weight of Class 2 Flex Base     | wet_weight       | decimal       | (19, 8) |            |

**Liquid Limit, Plastic Limit, Plastic Index (DB-104-6)**

**Table Name: VALUE\_DB104E**

**Maximum Rows: 1**

| Field Description | Field Name         | Datatype | Length  | Values     |
|-------------------|--------------------|----------|---------|------------|
| Liquid Limit      | liquid_limit_total | decimal  | (19, 8) |            |
| Stamp Code        | stamp_code         | int      |         | CVL        |
| Tested By         | tested_by          | nvarchar | 100     | CVL        |
| Tested Date       | tested_date        | datetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB104E\_SAMPLE**

**Maximum Rows: 6**

| Field Description             | Field Name       | Datatype | Length  | Values |
|-------------------------------|------------------|----------|---------|--------|
| Dish No.                      | dish_no          | nvarchar | 100     |        |
| Liquid Limit (%)              | liquid_limit     | decimal  | (19, 8) |        |
| Mass of Dry Sample + Tare (g) | mass_dry_sample  | decimal  | (19, 8) |        |
| Mass of Wet Sample + Tare (g) | mass_wet_sample  | decimal  | (19, 8) |        |
| Moisture Content, %           | moisture_content | decimal  | (19, 8) |        |
| Number of Blows               | number_blows     | int      |         |        |
| Tare mass (g)                 | tare_mass        | decimal  | (19, 8) |        |

**Table Name: VALUE\_DB105E****Maximum Rows: 1**

| Field Description | Field Name          | Datatype | Length  | Values     |
|-------------------|---------------------|----------|---------|------------|
| Plastic Limit     | plastic_limit_total | decimal  | (19, 8) |            |
| Stamp Code        | stamp_code          | int      |         | CVL        |
| Tested By         | tested_by           | nvarchar | 100     | CVL        |
| Tested Date       | tested_date         | datetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB105E\_SAMPLE****Maximum Rows: 3**

| Field Description             | Field Name      | Datatype | Length  | Values |
|-------------------------------|-----------------|----------|---------|--------|
| Dish No.                      | dish_no         | nvarchar | 100     |        |
| Mass of Dry Sample + Tare (g) | mass_dry_sample | decimal  | (19, 8) |        |
| Mass of Wet Sample + Tare (g) | mass_wet_sample | decimal  | (19, 8) |        |
| Plastic Limit (%)             | plastic_limit   | decimal  | (19, 8) |        |
| Tare Mass (g)                 | tare_mass       | decimal  | (19, 8) |        |
| Mass of Water (g)             | water_mass      | decimal  | (19, 8) |        |

**Table Name: VALUE\_DB106E****Maximum Rows: 1**

| Field Description                                       | Field Name       | Datatype | Length | Values     |
|---|------------------|----------|--------|------------|
| Plastic Index   | plasticity_index | int      |        |            |
| Stamp Code  | stamp_code       | int      |        | CVL        |
| Tested By   | tested_by        | nvarchar | 100    | CVL        |
| Tested Date   | tested_date      | datetime |        | MM/dd/yyyy |
| Use Bar Linear Shrinkage to Calculate Plasticity Index? | use_bar_linear   | nvarchar | 100    | {Yes, No}  |

**Bar Linear Shrinkage (DB-107-E)****Table Name: VALUE\_DB107E****Maximum Rows: 1**

| Field Description          | Field Name                 | Datatype      | Length  | Values     |
|----------------------------|----------------------------|---------------|---------|------------|
| Calculate Plasticity Index | calculate_plasticity_index | bit           |         | {Yes, No}  |
| Final Length               | final_length               | decimal       | (19, 8) |            |
| Initial Length             | initial_length             | decimal       | (19, 8) |            |
| Linear Shrinkage           | linear_shrinkage           | decimal       | (19, 8) |            |
| Maximum By Specification   | maximum_by_specification   | decimal       | (19, 8) |            |
| Minimum By Specification   | minimum_by_specification   | decimal       | (19, 8) |            |
| Plasticity Index           | plasticity_index           | decimal       | (19, 8) |            |
| Stamp Code                 | stamp_code                 | int           |         | CVL        |
| Tested By                  | tested_by                  | nvarchar      | 100     | CVL        |
| Tested Date                | tested_date                | smalldatetime |         | MM/dd/yyyy |
| Unit                       | unit                       | nvarchar      | 100     |            |

Particle Size Analysis (DB-110-E)

Table Name: VALUE\_DB110E\_SIEVE

Maximum Rows: 6

| Field Description           | Field Name                 | Datatype | Length  | Values |
|-----------------------------|----------------------------|----------|---------|--------|
| Cumulative Percent Retained | cumulative_pct_retained    | decimal  | (19, 8) |        |
| Cumulative Weight Retained  | cumulative_weight_retained | decimal  | (19, 8) |        |
| Lower Spec Limit            | lower_spec_limit           | decimal  | (19, 8) |        |
| Master Grading              | master_grading             | nvarchar | 100     |        |
| Sieve Size                  | sieve_size                 | nvarchar | 100     | CVL    |
| Upper Spec Limit            | upper_spec_limit           | decimal  | (19, 8) |        |
| Weight Retained             | weight_retained            | decimal  | (19, 8) |        |

Table Name: VALUE\_DB110E\_TEST

Maximum Rows: 1

| Field Description | Field Name            | Datatype | Length | Values                   |
|-------------------|-----------------------|----------|--------|--------------------------|
| Cumulative Method | individual_cumulative | nvarchar | 100    | {Cumulative, Individual} |
| Negative No.40    | negative_no_40        | nvarchar | 100    |                          |
| Stamp Code        | stamp_code            | int      |        | CVL                      |
| Tested By         | tested_by             | nvarchar | 100    | CVL                      |
| Tested Date       | tested_date           | datetime |        | MM/dd/yyyy               |
| Total             | total                 | nvarchar | 100    |                          |



Moisture Density Worksheet (DB-113-E)

Table Name: VALUE\_DB113E

Maximum Rows: 1

| Field Description              | Field Name             | Datatype      | Length  | Values     |
|--------------------------------|------------------------|---------------|---------|------------|
| Dry Density Scale Max          | dry_density_scale_max  | decimal       | (19, 8) |            |
| Dry Density Scale Min          | dry_density_scale_min  | decimal       | (19, 8) |            |
| Dry Density Scale unit         | dry_density_scale_unit | decimal       | (19, 8) |            |
| Hygroscopic Moisture           | hygroscopic_moisture   | decimal       | (19, 8) |            |
| Max Density (kg)               | max_density_kg         | decimal       | (19, 8) |            |
| Max Density (pcf)              | max_density_pcf        | decimal       | (19, 8) |            |
| Moisture scale max             | moisture_scale_max     | decimal       | (19, 8) |            |
| Moisture scale min             | moisture_scale_min     | decimal       | (19, 8) |            |
| Moisture scale unit            | moisture_scale_unit    | decimal       | (19, 8) |            |
| Optimum Moisture               | optimum_moisture       | decimal       | (19, 8) |            |
| Oven Dry Weight                | oven_dry_weight        | decimal       | (19, 8) |            |
| Soil Description               | soil_desc              | nvarchar      | 100     |            |
| Specific Gravity (Apparent)    | specific_gravity       | decimal       | (19, 8) |            |
| Stamp Code                     | stamp_code             | int           |         | CVL        |
| Tested By                      | tested_by              | nvarchar      | 100     | CVL        |
| Tested Date                    | tested_date            | smalldatetime |         | MM/dd/yyyy |
| Weight of Aggr., Pycn. & Water | weight_of_aggr         | decimal       | (19, 8) |            |
| Weight of Pycnometer & Water   | weight_of_pycnometer   | decimal       | (19, 8) |            |

Table Name: VALUE\_DB113E\_SPECIMEN

Maximum Rows: 4

| Field Description       | Field Name            | Datatype | Length  | Values |
|-------------------------|-----------------------|----------|---------|--------|
| Dry Density             | dry_density           | decimal  | (19, 8) |        |
| Dry Mass Material       | dry_mass_material     | decimal  | (19, 8) |        |
| Dry Mass Pan & Specimen | dry_mass_pan_specimen | decimal  | (19, 8) |        |
| Estimated Dry Density   | est_dry_density       | decimal  | (19, 8) |        |
| Height of Specimen      | height_specimen       | decimal  | (19, 8) |        |
| Mass Material           | mass_material         | decimal  | (19, 8) |        |
| Mass Water              | mass_water            | decimal  | (19, 8) |        |
| Mass Water Added        | mass_water_added      | decimal  | (19, 8) |        |
| Percent Water Content   | pct_water_content     | decimal  | (19, 8) |        |
| Percent Water Total     | pct_water_total       | decimal  | (19, 8) |        |
| Tare Mass Mold          | tare_mass_mold        | decimal  | (19, 8) |        |
| Tare Mass Pan           | tare_mass_pan         | decimal  | (19, 8) |        |
| Volume Per Linear mm    | volume_per_linear     | decimal  | (19, 8) |        |
| Volume of Specimen      | volume_specimen       | decimal  | (19, 8) |        |
| Wet Density of Specimen | wet_density_specimen  | decimal  | (19, 8) |        |

| Field Description          | Field Name            | Datatype | Length  | Values |
|----------------------------|-----------------------|----------|---------|--------|
| Wet Mass of Pan & Specimen | wet_mass_pan_specimen | decimal  | (19, 8) |        |
| Wet Mass Specimen          | wet_mass_specimen     | decimal  | (19, 8) |        |

### Moisture-Density Relationship of Subgrade and Embankment Soils (DB-114-E)

Table Name: VALUE\_DB114E

Maximum Rows: 1

| Field Description              | Field Name             | Datatype      | Length  | Values     |
|--------------------------------|------------------------|---------------|---------|------------|
| Dry Density Scale Max          | dry_density_scale_max  | decimal       | (19, 8) |            |
| Dry Density Scale Min          | dry_density_scale_min  | decimal       | (19, 8) |            |
| Dry Density Scale unit         | dry_density_scale_unit | decimal       | (19, 8) |            |
| Hygroscopic Moisture           | hygroscopic_moisture   | decimal       | (19, 8) |            |
| Max Density (kg)               | max_density_kg         | decimal       | (19, 8) |            |
| Max Density (pcf)              | max_density_pcf        | decimal       | (19, 8) |            |
| Moisture scale max             | moisture_scale_max     | decimal       | (19, 8) |            |
| Moisture scale min             | moisture_scale_min     | decimal       | (19, 8) |            |
| Moisture scale unit            | moisture_scale_unit    | decimal       | (19, 8) |            |
| Optimum Moisture               | optimum_moisture       | decimal       | (19, 8) |            |
| Oven Dry Weight                | oven_dry_weight        | decimal       | (19, 8) |            |
| Soil Description               | soil_desc              | nvarchar      | 100     |            |
| Specific Gravity (Apparent)    | specific_gravity       | decimal       | (19, 8) |            |
| Stamp Code                     | stamp_code             | int           |         | CVL        |
| Tested By                      | tested_by              | nvarchar      | 100     | CVL        |
| Tested Date                    | tested_date            | smalldatetime |         | MM/dd/yyyy |
| Weight of Aggr., Pycn. & Water | weight_of_aggr         | decimal       | (19, 8) |            |
| Weight of Pycnometer & Water   | weight_of_pycnometer   | decimal       | (19, 8) |            |

Table Name: VALUE\_DB114E\_SPECIMEN

Maximum Rows: 4

| Field Description       | Field Name            | Datatype | Length  | Values |
|-------------------------|-----------------------|----------|---------|--------|
| Dry Density             | dry_density           | decimal  | (19, 8) |        |
| Dry Mass Material       | dry_mass_material     | decimal  | (19, 8) |        |
| Dry Mass Pan & Specimen | dry_mass_pan_specimen | decimal  | (19, 8) |        |
| Estimated Dry Density   | est_dry_density       | decimal  | (19, 8) |        |
| Height of Specimen      | height_specimen       | decimal  | (19, 8) |        |
| Mass Material           | mass_material         | decimal  | (19, 8) |        |
| Mass Water              | mass_water            | decimal  | (19, 8) |        |
| Mass Water Added        | mass_water_added      | decimal  | (19, 8) |        |
| Percent Water Content   | pct_water_content     | decimal  | (19, 8) |        |

| Field Description          | Field Name             | Datatype | Length  | Values |
|----------------------------|------------------------|----------|---------|--------|
| Percent Water Total        | pct_water_total        | decimal  | (19, 8) |        |
| Tare Mass Mold             | tare_mass_mold         | decimal  | (19, 8) |        |
| Tare Mass Pan              | tare_mass_pan          | decimal  | (19, 8) |        |
| Volume Per Linear mm       | volume_per_linear      | decimal  | (19, 8) |        |
| Volume of Specimen         | volume_specimen        | decimal  | (19, 8) |        |
| Wet Density of Specimen    | wet_density_specimen   | decimal  | (19, 8) |        |
| Wet Mass of Pan & Specimen | wet_mass_pan_specimen  | decimal  | (19, 8) |        |
| Wet Mass Specimen          | wet_mass_specimen      | decimal  | (19, 8) |        |
| Wet Mass Specimen & Mold   | wet_mass_specimen_mold | decimal  | (19, 8) |        |

## Nuclear Density and Moisture Determination (DB-115-1)

Table Name: VALUE\_DB115\_1

Maximum Rows: 1

| Field Description                      | Field Name                     | Datatype | Length  | Values               |
|--|--------------------------------|----------|---------|----------------------|
| Density Count                          | density_count                  | int      |         |                      |
| Density, %                             | density_pct                    | decimal  | (19, 8) |                      |
| Pass/Fail                              | density_pct_pass_fail          | nvarchar | 100     |                      |
| Max Density Specification Requirement  | density_specification_req_max  | decimal  | (19, 8) |                      |
| Low Density Specification Req          | density_specification_req_min  | decimal  | (19, 8) |                      |
| density_standard                       | density_standard               | int      |         |                      |
| Determined By Test Method              | determined_by_test_method      | nvarchar | 100     | {DB-113-E, DB-114-E} |
| Dry Density, pcf                       | dry_density_pcf                | decimal  | (19, 8) |                      |
| Gauge No.                              | gauge_no                       | nvarchar | 100     |                      |
| Maximum Dry Density                    | max_dry_density_pcf            | decimal  | (19, 8) |                      |
| Moisture Content, %                    | moisture_content_pct           | decimal  | (19, 8) |                      |
| Moisture Content Pct Pass or Fail      | moisture_content_pct_pass_fail | nvarchar | 100     | {Pass, Fail}         |
| Moisture Count                         | moisture_count                 | int      |         |                      |
| Max Moisture Specification Requirement | moisture_specification_req_max | decimal  | (19, 8) |                      |
| Low Moisture Specification Req         | moisture_specification_req_min | decimal  | (19, 8) |                      |
| Moisture Standard                      | moisture_standard              | int      |         |                      |
| Optimum Moisture Content               | optimum_moisture_content_pct   | decimal  | (19, 8) |                      |
| Probe Depth                            | probe_depth                    | decimal  | (19, 8) |                      |
| Soil Description                       | soil_desc                      | nvarchar | 100     |                      |
| Stamp Code                             | stamp_code                     | int      |         | CVL                  |
| Tested By                              | tested_by                      | nvarchar | 100     | CVL                  |
| Tested Date                            | tested_date                    | datetime |         | MM/dd/yyyy           |
| Wet Density, pcf                       | wet_density_pcf                | decimal  | (19, 8) |                      |

## Test Resistance to Degradation by Wet Ball Mill Method (DB-116-E)

Table Name: VALUE\_DB116E

Maximum Rows: 1

| Field Description              | Field Name                             | Datatype | Length  | Values                   |
|--------------------------------|--|----------|---------|--------------------------|
| Cumulative Method              | cumulative_method                      | nvarchar | 50      | {Cumulative, Individual} |
| Total of 3000g weight retained | individual_weight_retained_3000g_total | decimal  | (19, 8) |                          |
| Total of 3500g weight retained | individual_weight_retained_3500g_total | decimal  | (19, 8) |                          |
| Percent Soil Binder            | pct_soil_binder                        | decimal  | (19, 8) |                          |
| Percent Soil Binder Increase   | pct_soil_binder_increase               | decimal  | (19, 8) |                          |
| Stamp Code                     | stamp_code                             | int      |         | CVL                      |
| Tested By                      | tested_by                              | nvarchar | 100     | CVL                      |

| Field Description   | Field Name                            | Datatype      | Length  | Values     |
|---|---------------------------------------|---------------|---------|------------|
| Tested Date   | tested_date                           | smalldatetime |         | MM/dd/yyyy |
| Wet Ball Mill -No.40 Individual Percent Retained          | wbm_individual_pct_retained_minusno40 | decimal       | (19, 8) |            |
| Wet Ball Mill No.40 Individual Percent Retained           | wbm_individual_pct_retained_no40      | decimal       | (19, 8) |            |
| Wet Ball Mill Initial Weight                              | wbm_initial_weight                    | decimal       | (19, 8) |            |
| Wet Ball Mill Value                                       | wbm_value                             | decimal       | (19, 8) |            |
| Wet Ball Mill -No.40 Weight Retained                      | wbm_weight_retained_minusno40         | decimal       | (19, 8) |            |
| Wet Ball Mill No. 40 Weight Retained                      | wbm_weight_retained_no40              | decimal       | (19, 8) |            |
| Total of weight retained                                  | weight_retained_total                 | decimal       | (19, 8) |            |
| Washed Sieve Analysis No. 40 Individual Percent Retained  | wsa_individual_pct_retained_no40      | decimal       | (19, 8) |            |
| Washed Sieve Analysis -No. 40 Individual Percent Retained | wsa_individual_pct_retained_minusno40 | decimal       | (19, 8) |            |
| Washed Sieve Analysis Initial Weight                      | wsa_initial_weight                    | decimal       | (19, 8) |            |
| Washed Sieve Analysis -No. 40 Weight Retained             | wsa_weight_retained_minusno40         | decimal       | (19, 8) |            |
| Washed Sieve Analysis No. 40 Weight Retained              | wsa_weight_retained_no40              | decimal       | (19, 8) |            |

Table Name: VALUE\_DB116E\_SIEVE

Maximum Rows: 7

| Field Description                | Field Name                       | Datatype | Length  | Values |
|----------------------------------|----------------------------------|----------|---------|--------|
| Cumulative Percent Retained      | cumulative_pct_retained          | decimal  | (19, 8) |        |
| 3000g Cumulative Weight Retained | cumulative_weight_retained_3000g | decimal  | (19, 8) |        |
| 3500g Cumulative Weight Retained | cumulative_weight_retained_3500g | decimal  | (19, 8) |        |
| Individual Percent Retained      | individual_pct_retained          | decimal  | (19, 8) |        |
| 3000g Individual Weight Retained | individual_weight_retained_3000g | decimal  | (19, 8) |        |
| 3500g Individual Weight Retained | individual_weight_retained_3500g | decimal  | (19, 8) |        |
| Sieve Size                       | sieve_size                       | nvarchar | 100     |        |
| Weight Retained                  | weight_retained                  | decimal  | (19, 8) |        |

Triaxial Compression Tests (DB-117-E)

Table Name: VALUE\_DB117E

Maximum Rows: 1

| Field Description                  | Field Name                       | Datatype      | Length  | Values     |
|------------------------------------|----------------------------------|---------------|---------|------------|
| Average Corrected Strength, 00 psi | average_corrected_strength_0psi  | decimal       | (19, 8) |            |
| Average Corrected Strength, 03 psi | average_corrected_strength_3psi  | decimal       | (19, 8) |            |
| Average Corrected Strength, 15 psi | average_corrected_strength_15psi | decimal       | (19, 8) |            |
| Classification                     | classification                   | nvarchar      | 100     |            |
| Cohesion, psi                      | cohesion_psi                     | decimal       | (19, 8) |            |
| Correlation Factor                 | correlation_factor               | decimal       | (19, 8) |            |
| Grade, 00 psi                      | grade_0psi                       | nvarchar      | 100     |            |
| Grade, 03 psi                      | grade_3psi                       | nvarchar      | 100     |            |
| Grade, 15 psi                      | grade_15psi                      | nvarchar      | 100     |            |
| Internal Angle of Friction         | internal_angle_friction          | decimal       | (19, 8) |            |
| Stamp Code                         | stamp_code                       | int           |         | CVL        |
| Tested By                          | tested_by                        | nvarchar      | 100     | CVL        |
| Tested Date                        | tested_date                      | smalldatetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB117E\_SPECIMEN**

**Maximum Rows: 8**

| Field Description               | Field Name               | Datatype | Length  | Values |
|---------------------------------|--------------------------|----------|---------|--------|
| Area, in.^2                     | area                     | decimal  | (19, 8) |        |
| Avg. Cross Sectional Area, in^2 | avg_cross_sectional_area | decimal  | (19, 8) |        |
| Average Diameter, in.           | avg_diameter             | decimal  | (19, 8) |        |
| Corrected Stress, psi           | corrected_stress_psi     | decimal  | (19, 8) |        |
| Dry Density of Specimen, pcf    | dry_density_specimen_pcf | decimal  | (19, 8) |        |
| Final Weight of Stones          | final_weight_stones      | decimal  | (19, 8) |        |
| Height of Stone 1, in.          | height_stone1            | decimal  | (19, 8) |        |
| Height of Stone 2, in.          | height_stone2            | decimal  | (19, 8) |        |
| I-Strain, in./in.               | i_strain                 | decimal  | (19, 8) |        |
| Initial Height of Specimen, in. | initial_height           | decimal  | (19, 8) |        |
| Lateral Pressure, psi.          | lateral_pressure_psi     | decimal  | (19, 8) |        |
| New Height of Specimen, in.     | new_height               | decimal  | (19, 8) |        |
| Moisture of Specimen, %         | pct_moisture_specimen    | decimal  | (19, 8) |        |
| % Strain , in./in.              | pct_strain               | decimal  | (19, 8) |        |
| Uncorrected Stress, psi.        | uncorrected_stress_psi   | decimal  | (19, 8) |        |
| Weight of Specimen              | weight_specimen          | decimal  | (19, 8) |        |
| Weight of Stones and Specimen   | weight_stones_specimen   | decimal  | (19, 8) |        |

**Soil/Cement UCS (DB-120-E, Part I and II)**

**Table Name: VALUE\_DB120E\_12**

**Maximum Rows: 1**

| Field Description                     | Field Name           | Datatype      | Length  | Values     |
|---------------------------------------|----------------------|---------------|---------|------------|
| Unconfined Compressive Strength (psi) | compressive_strength | decimal       | (19, 8) |            |
| Stamp Code                            | stamp_code           | int           |         | CVL        |
| Tested By                             | tested_by            | nvarchar      | 100     | CVL        |
| Tested Date                           | tested_date          | smalldatetime |         | MM/dd/yyyy |

**Soil/Lime UCS (DB-121-E, Part I and II)**

**Table Name: VALUE\_DB121E\_12**

**Maximum Rows: 1**

| Field Description                     | Field Name           | Datatype      | Length  | Values     |
|---------------------------------------|----------------------|---------------|---------|------------|
| Unconfined Compressive Strength (psi) | compressive_strength | decimal       | (19, 8) |            |
| Stamp Code                            | stamp_code           | int           |         | CVL        |
| Tested By                             | tested_by            | nvarchar      | 100     | CVL        |
| Tested Date                           | tested_date          | smalldatetime |         | MM/dd/yyyy |

### Lab Molded Density (DB-126-E)

Table name: Value\_DB126E

| Field Description                      | Field Name      | Datatype      | Length  | Values     |
|--|-----------------|---------------|---------|------------|
| Lab Molded Density                     | molded_density  | decimal       | (19, 8) |            |
| Percent Density of Compacted Field Mix | percent_density | decimal       | (19, 8) |            |
| Stamp Code                             | stamp_code      | int           |         | CVL        |
| Tested By                              | tested_by       | nvarchar      | 100     | CVL        |
| Tested Date                            | tested_date     | smalldatetime |         | MM/dd/yyyy |

### Determining Soil pH (DB-128-E)

Table Name: VALUE\_DB128E

Maximum Rows: 1

| Field Description | Field Name  | Datatype      | Length  | Values     |
|-------------------|-------------|---------------|---------|------------|
| Soil pH           | soil_ph     | decimal       | (19, 8) |            |
| Stamp Code        | stamp_code  | int           |         | CVL        |
| Tested By         | tested_by   | nvarchar      | 100     | CVL        |
| Tested Date       | tested_date | smalldatetime |         | MM/dd/yyyy |

### Determining Soil Resistivity (DB-129-E)

Table Name: VALUE\_DB129E

Maximum Rows: 1

| Field Description                  | Field Name             | Datatype      | Length  | Values     |
|------------------------------------|------------------------|---------------|---------|------------|
| Resistance using resistivity meter | resistance_using_meter | decimal       | (19, 8) |            |
| Resistivity                        | resistivity_result     | decimal       | (19, 8) |            |
| A= Area of one electrode           | sbf_area               | decimal       | (19, 8) |            |
| Distance between electrodes        | sbf_distance           | decimal       | (19, 8) |            |
| Soil Box Factor                    | sbf_factor             | decimal       | (19, 8) |            |
| Stamp Code                         | stamp_code             | int           |         | CVL        |
| Tested By                          | tested_by              | nvarchar      | 100     | CVL        |
| Tested Date                        | tested_date            | smalldatetime |         | MM/dd/yyyy |



**Measuring Thickness of Pavement Layer (DB-140-E)**

**Table Name: VALUE\_DB140E**

**Maximum Rows: 1**

| Field Description | Field Name  | Datatype | Length  | Values     |
|-------------------|-------------|----------|---------|------------|
| Average Depth:    | avg_depth   | decimal  | (19, 8) |            |
| Depth 1:          | depth_1     | decimal  | (19, 8) |            |
| Depth 2:          | depth_2     | decimal  | (19, 8) |            |
| Depth 3:          | depth_3     | decimal  | (19, 8) |            |
| Stamp Code        | stamp_code  | int      |         | CVL        |
| Tested By         | tested_by   | nvarchar | 100     | CVL        |
| Tested Date       | tested_date | datetime |         | MM/dd/yyyy |

**Sulfate Content (DB-145-E)**

**Table Name: VALUE\_DB145E**

**Maximum Rows: 1**

| Field Description              | Field Name      | Datatype      | Length  | Values     |
|--------------------------------|-----------------|---------------|---------|------------|
| Sulfate Content in Soils (PPM) | sulfate_content | decimal       | (19, 8) |            |
| Stamp Code                     | stamp_code      | int           |         | CVL        |
| Tested By                      | tested_by       | nvarchar      | 100     | CVL        |
| Tested Date                    | tested_date     | smalldatetime |         | MM/dd/yyyy |

**Organic Content (DB-148-E)**

**Table Name: VALUE\_DB148E**

**Maximum Rows: 1**

| Field Description            | Field Name      | Datatype      | Length  | Values     |
|------------------------------|-----------------|---------------|---------|------------|
| Organic Content in Soils (%) | organic_content | decimal       | (19, 8) |            |
| Stamp Code                   | stamp_code      | int           |         | CVL        |
| Tested By                    | tested_by       | nvarchar      | 100     | CVL        |
| Tested Date                  | tested_date     | smalldatetime |         | MM/dd/yyyy |

Table Name: VALUE\_DB200ST

Maximum Rows: 1

| Field Description        | Field Name               | Datatype | Length  | Values                                     |
|--------------------------|--------------------------|----------|---------|--|
| Sphalt                   | asphalt_pct              | decimal  | (19, 8) |  |
| Dry Weight After Washing | dry_weight_after_washing | decimal  | (19, 8) |  |
| Moisture                 | moisture_pct             | decimal  | (19, 8) |  |
| Original Dry Weight      | orig_dry_weight          | decimal  | (19, 8) |  |
| Total                    | pan_weight               | decimal  | (19, 8) |  |
| Percent Difference       | percent_difference       | decimal  | (19, 8) |  |
| Sieving Loss             | sieving_loss             | decimal  | (19, 8) |  |
| Stamp Code               | stamp_code               | int      |         | CVL  |
| Tested By                | tested_by                | nvarchar | 100     | CVL  |
| Tested Date              | tested_date              | datetime |         | MM/dd/yyyy                                 |
| Total Weight             | total_weight             | decimal  | (19, 8) |  |
| Type                     | type                     | nvarchar | 100     | {A, B, C, D, E, L, PA, PB, PC, PD, PE, PL} |
| Washing Loss             | washing_loss             | decimal  | (19, 8) |  |
| Weight Difference        | weight_difference        | decimal  | (19, 8) |  |
| PrePan                   | weight_retained          | decimal  | (19, 8) |  |

Table Name: VALUE\_DB200ST\_SIEVE

Maximum Rows: 8

| Field Description           | Field Name                  | Datatype | Length  | Values |
|-----------------------------|-----------------------------|----------|---------|--------|
| Cumulative Percent Passing  | cumulative_percent_passing  | decimal  | (19, 8) |        |
| Lower Retained Limit        | lower_retained_limit        | decimal  | (19, 8) |        |
| Cumulative Percent Retained | percent_retained_cumulative | decimal  | (19, 8) |        |
| Individual percent Retained | percent_retained_individual | decimal  | (19, 8) |        |
| Sieve Size                  | sieve_size                  | nvarchar | 100     |        |
| Upper Retained Limit        | upper_retained_limit        | decimal  | (19, 8) |        |
| Cumulative Weight Retained  | weight_retained_cumulative  | decimal  | (19, 8) |        |
| Individual Weight Retained  | weight_retained_individual  | decimal  | (19, 8) |        |
| Within Master Grading       | within_master_grading       | nvarchar | 100     |        |

OVF HMAC Test Data: DB-200-F, DB-207-FPR, DB-227-F, DB-236-F, DB-207-F (DB-200/07/36)

Table Name: VALUE\_DB200F

Maximum Rows: 1

| Field Description                    | Field Name                           | Datatype      | Length  | Values              |
|--------------------------------------|--------------------------------------|---------------|---------|---------------------|
| Cumulative Weight Retained Minusno14 | cumulative_weight_retained_minusno14 | decimal       | (19, 8) |                     |
| Dry Weight After Washing             | dry_weight_after_washing             | decimal       | (19, 8) |                     |
| Limit As Percent                     | limit_as_percent                     | nvarchar      | 100     | {Passing, Retained} |
| Original Dry Weight                  | original_dry_weight                  | decimal       | (19, 8) |                     |
| Sieve Analysis Result 1              | sieve_analysis_result1               | nvarchar      | 100     |                     |
| Sieve Analysis Result 2              | sieve_analysis_result2               | decimal       | (19, 8) |                     |
| Sieve Analysis Result 3              | sieve_analysis_result3               | decimal       | (19, 8) |                     |
| Sieve Analysis Result 4              | sieve_analysis_result4               | decimal       | (19, 8) |                     |
| Sieving Loss                         | sieving_loss                         | decimal       | (19, 8) |                     |
| Stamp Code                           | stamp_code                           | nvarchar      | 100     | CVL                 |
| Tested By                            | tested_by                            | nvarchar      | 100     | CVL                 |
| Tested Date                          | tested_date                          | smalldatetime |         | MM/dd/yyyy          |
| Total Weight                         | total_weight                         | decimal       | (19, 8) |                     |
| Washing Loss                         | washing_loss                         | decimal       | (19, 8) |                     |

Table Name: VALUE\_DB200F\_SIEVE

Maximum Rows: 12

| Field Description           | Field Name                 | Datatype | Length  | Values   |
|-----------------------------|----------------------------|----------|---------|--|
| Cumulative Percent Passing  | cumulative_pct_passing     | decimal  | (19, 8) |  |
| Cumulative Percent Retained | cumulative_pct_retained    | decimal  | (19, 8) |  |
| Cumulative Weight Retained  | cumulative_weight_retained | decimal  | (19, 8) |  |
| Individual Weight Retained  | individual_weight_retained | decimal  | (19, 8) |  |
| Lower Limit Grading         | lower_limit_grading        | decimal  | (19, 8) |  |
| Sieve Size                  | sieve_size                 | nvarchar | 100     | {2", 1-3/4", 1-1/2", 1-1/4", 1", 7/8", 3/4", 5/8", 1/2", 7/16", 3/8", 5/16", 1/4", No. 4, No. 6, No. 8, No. 10, No. 14, No. 16, No. 20, No. 30, No. 40, No. 50, No. 80, No. 100, No. 200 } |
| Upper Limit Grading         | upper_limit_grading        | decimal  | (19, 8) |  |

**Table Name: VALUE\_DB207F****Maximum Rows: 1**

| Field Description                  | Field Name       | Datatype      | Length  | Values     |
|------------------------------------|------------------|---------------|---------|------------|
| Specific Gravity of Asphalt Binder | specific_gravity | decimal       | (19, 3) |            |
| Stamp Code                         | stamp_code       | int           |         | CVL        |
| Tested By                          | tested_by        | nvarchar      | 100     | CVL        |
| Tested Date                        | tested_date      | smalldatetime |         | MM/dd/yyyy |
| Voids in Mineral Aggregate (VMA)   | vma              | decimal       | (19, 1) |            |

**Table Name: VALUE\_DB207FPR****Maximum Rows: 1**

| Field Description                     | Field Name  | Datatype | Length  | Values     |
|---------------------------------------|-------------|----------|---------|------------|
| Average Actual Specific Gravity (Ga): | GA          | nvarchar | 100     |            |
| Lab Molded Density, %:                | LMD         | decimal  | (19, 8) |            |
| Stamp Code                            | stamp_code  | nvarchar | 100     | CVL        |
| Tested By                             | tested_by   | nvarchar | 100     | CVL        |
| Tested Date                           | tested_date | datetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB227F****Maximum Rows: 1**

| Field Description           | Field Name            | Datatype | Length  | Values     |
|-----------------------------|-----------------------|----------|---------|------------|
| Rice Specific Gravity (Gr): | rice_specific_gravity | decimal  | (19, 8) |            |
| Stamp Code                  | stamp_code            | nvarchar | 100     | CVL        |
| Tested By                   | tested_by             | nvarchar | 100     | CVL        |
| Tested Date                 | tested_date           | datetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB229F****Maximum Rows: 1**

| Field Description | Field Name  | Datatype | Length | Values     |
|-------------------|-------------|----------|--------|------------|
| Stamp Code        | stamp_code  | nvarchar | 100    | CVL        |
| Tested By         | tested_by   | nvarchar | 100    | CVL        |
| Tested Date       | tested_date | datetime |        | MM/dd/yyyy |

**Table Name: VALUE\_DB229F\_SIEVE****Maximum Rows: 10**

| Field Description              | Field Name  | Datatype | Length  | Values |
|--------------------------------|-------------|----------|---------|--------|
| Current JMF                    | Current_JMF | nvarchar | 100     |        |
| Design JMF                     | Design_JMF  | nvarchar | 100     |        |
| Adjusted Individual % Retained | pct         | decimal  | (19, 8) |        |
| Sieve Size                     | sieve_size  | nvarchar | 100     | CVL    |

**Table Name: VALUE\_DB236F****Maximum Rows: 1**

| Field Description   | Field Name  | Datatype | Length  | Values     |
|---------------------|-------------|----------|---------|------------|
| Asphalt Content, %: | AC          | decimal  | (19, 8) |            |
| Stamp Code          | stamp_code  | nvarchar | 100     | CVL        |
| Tested By           | tested_by   | nvarchar | 100     | CVL        |
| Tested Date         | tested_date | datetime |         | MM/dd/yyyy |

**Sieve Analysis of Non-Surface Treatment Aggregates (DB-200-F)**

**Sand Equivalent (DB-203-F)**

Table Name: VALUE\_DB203F

Maximum Rows: 1

| Field Description       | Field Name              | Datatype      | Length  | Values     |
|-------------------------|-------------------------|---------------|---------|------------|
| Average Sand Equivalent | average_sand_equivalent | decimal       | (19, 8) |            |
| Clay No.1 Reading       | clay1_reading           | decimal       | (19, 8) |            |
| Clay No.2 Reading       | clay2_reading           | decimal       | (19, 8) |            |
| Sand No.1 Calculated    | sand1_calculated        | decimal       | (19, 8) |            |
| Sand No.1 Reading       | sand1_reading           | decimal       | (19, 8) |            |
| Sand No.1 Reported      | sand1_reported          | decimal       | (19, 8) |            |
| Sand No.2 Calculated    | sand2_calculated        | decimal       | (19, 8) |            |
| Sand No.2 Reading       | sand2_reading           | decimal       | (19, 8) |            |
| Sand No.2 Reported      | sand2_reported          | decimal       | (19, 8) |            |
| Stamp Code              | stamp_code              | int           |         | CVL        |
| Tested By               | tested_by               | nvarchar      | 100     | CVL        |
| Tested Date             | tested_date             | smalldatetime |         | MM/dd/yyyy |

**QC/QA Test Data (DB-207-FPL)**

**Table Name: VALUE\_DB207FPL**

**Maximum Rows: 1**

| Field Description | Field Name  | Datatype | Length  | Values     |
|-------------------|-------------|----------|---------|------------|
| In Place Air Void | air_void    | decimal  | (19, 8) |            |
| Stamp Code        | stamp_code  | nvarchar | 100     | CVL        |
| Tested By         | tested_by   | nvarchar | 100     | CVL        |
| Tested Date       | tested_date | datetime |         | MM/dd/yyyy |

**Moisture Content (DB-212-F)**

**Table Name: VALUE\_DB212F**

**Maximum Rows: 1**

| Field Description | Field Name       | Datatype      | Length  | Values     |
|-------------------|------------------|---------------|---------|------------|
| Moisture Content  | moisture_content | decimal       | (19, 8) |            |
| Stamp Code        | stamp_code       | int           |         | CVL        |
| Tested By         | tested_by        | nvarchar      | 100     | CVL        |
| Tested Date       | tested_date      | smalldatetime |         | MM/dd/yyyy |

**Deleterious Material & Decantation for Coarse Aggr (DB-217-F)**

**Table Name: VALUE\_DB217F**

**Maximum Rows: 1**

| Field Description            | Field Name                        | Datatype | Length  | Values     |
|------------------------------|-----------------------------------|----------|---------|------------|
| Original Weight Retained     | part1_orig_weight_retained        | decimal  | (19, 8) |            |
| Percent Deleterious Material | part1_pct_deleterious_material    | decimal  | (19, 8) |            |
| Sieve Size                   | part1_sieve_size                  | nvarchar | 100     |            |
| Weight Deleterious Material  | part1_weight_deleterious_material | decimal  | (19, 8) |            |
| Dry Weight after Washing     | part2_dry_weight_after_washing    | decimal  | (19, 8) |            |
| Percent Loss By Decantation  | part2_loss_by_decantation         | decimal  | (19, 8) |            |
| Original Weight Retained     | part2_orig_weight_retained        | decimal  | (19, 8) |            |
| Sieve Size                   | part2_sieve_size                  | nvarchar | 53      |            |
| Stamp Code                   | stamp_code                        | int      |         | CVL        |
| Tested By                    | tested_by                         | nvarchar | 100     | CVL        |
| Tested Date                  | tested_date                       | datetime |         | MM/dd/yyyy |

Sieve Analysis for Fine & Coarse Aggregate (DB-401-A)

Table Name: VALUE\_DB401A

Maximum Rows: 1

| Field Description    | Field Name           | Datatype      | Length  | Values     |
|----------------------|----------------------|---------------|---------|------------|
| Equivalent Exceed 85 | equivalent_exceed_85 | bit           |         |            |
| Stamp Code           | stamp_code           | int           |         | CVL        |
| Tested By            | tested_by            | nvarchar      | 100     | CVL        |
| Tested Date          | tested_date          | smalldatetime |         | MM/dd/yyyy |
| Total                | total                | decimal       | (19, 8) |            |

Table Name: VALUE\_DB401A\_SIEVE

Maximum Rows: 8

| Field Description           | Field Name                 | Datatype | Length  | Values |
|-----------------------------|----------------------------|----------|---------|--------|
| Cumulative Percent Passing  | cumulative_pct_passing     | decimal  | (19, 8) |        |
| Cumulative Percent Retained | cumulative_pct_retained    | decimal  | (19, 8) |        |
| Cumulative Weight Retained  | cumulative_weight_retained | decimal  | (19, 8) |        |
| Individual Weight Retained  | individual_weight_retained | decimal  | (19, 8) |        |
| Lower Spec Limit            | lower_retained_spec_limit  | decimal  | (19, 8) |        |
| Sieve Size                  | sieve_size                 | nvarchar | 100     |        |
| Upper Spec Limit            | upper_retained_spec_limit  | decimal  | (19, 8) |        |
| Within Master Grading       | within_master_grading      | varchar  | 20      |        |

Table Name: VALUE\_DB402A

Maximum Rows: 1

| Field Description | Field Name       | Datatype      | Length  | Values     |
|-------------------|------------------|---------------|---------|------------|
| Fineness Modulus  | fineness_modulud | decimal       | (19, 8) |            |
| Stamp Code        | stamp_code       | int           |         | CVL        |
| Tested By         | tested_by        | nvarchar      | 100     | CVL        |
| Tested Date       | tested_date      | smalldatetime |         | MM/dd/yyyy |

**Decantation Test for Concrete Aggregates (DB-406-A)**

**Table Name: VALUE\_DB406A**

**Maximum Rows: 1**

| Field Description   | Field Name                        | Datatype      | Length  | Values  |
|---|-----------------------------------|---------------|---------|---|
| Dry Mass After Washing  | dry_mass_after_washing            | decimal       | (19, 8) |   |
| Mass of Pycnometer Containing Sample and Water To Fill After Washing      | mass_of_pycnometer_after_washing  | decimal       | (19, 8) |   |
| Mass of Pycnometer Containing Sample and Water To Fill Before Washing     | mass_of_pycnometer_before_washing | decimal       | (19, 8) |   |
| Mass of Pycnometer Filled With Water at Approx. Same Temperature as above | mass_of_pycnometer_with_water     | decimal       | (19, 8) |   |
| Original Dry Mass of Sample   | original_dry_mass                 | decimal       | (19, 8) |   |
| % Loss  | percent_loss_part1                | decimal       | (19, 8) |   |
| Percent Loss  | percent_loss_part2                | decimal       | (19, 8) |   |
| Stamp Code  | stamp_code                        | int           |         | CVL   |
| Test By:  | test_by                           | nvarchar      | 100     | {Part I - Lab Method, Part II - Field Method} |
| Tested By   | tested_by                         | nvarchar      | 100     | CVL   |
| Tested By - Part II   | tested_by_part2                   | nvarchar      | 100     | CVL   |
| Tested Date   | tested_date                       | smalldatetime |         | MM/dd/yyyy                                    |
| Tested Date - Part II   | tested_date_part2                 | datetime      |         | MM/dd/yyyy                                    |

**Organic Impurities in Fine Aggregate for Concrete (DB-408-A)**

**Table Name: VALUE\_DB408A**

**Maximum Rows: 1**

| Field Description               | Field Name                  | Datatype      | Length | Values   |
|---------------------------------|-----------------------------|---------------|--------|--|
| Color of the Supernatant Liquid | color_of_supernatant_liquid | nvarchar      | 100    | {LIGHTER THAN STANDARD, EQUAL TO STANDARD, DARKER THAN STANDARD} |
| Stamp Code                      | stamp_code                  | int           |        | CVL  |
| Tested By                       | tested_by                   | nvarchar      | 100    | CVL  |
| Tested Date                     | tested_date                 | smalldatetime |        | MM/dd/yyyy   |



**Deleterious Material (DB-413-A)**

**Table Name: VALUE\_DB413A**

**Maximum Rows: 1**

| Field Description             | Field Name                            | Datatype | Length  | Values     |
|-------------------------------|---------------------------------------|----------|---------|------------|
| Clay                          | clay_value1                           | decimal  | (19, 8) |            |
| Clay Percentage               | clay_value2                           | decimal  | (19, 8) |            |
| Friable                       | friable_value1                        | decimal  | (19, 8) |            |
| Friable Percentage            | friable_value2                        | decimal  | (19, 8) |            |
| Laminated                     | laminated_value1                      | decimal  | (19, 8) |            |
| Laminated Percentage          | laminated_value2                      | decimal  | (19, 8) |            |
| Other                         | other_value1                          | decimal  | (19, 8) |            |
| Othesr Percentage             | other_value2                          | decimal  | (19, 8) |            |
| Deleterious Material Retained | percent_deleterious_material_retained | decimal  | (19, 8) |            |
| Shale                         | shale_value1                          | decimal  | (19, 8) |            |
| Shale Percentage              | shale_value2                          | decimal  | (19, 8) |            |
| Sieve Size                    | sieve_size                            | nvarchar | 100     |            |
| Stamp Code                    | stamp_code                            | int      |         | CVL        |
| Tested By                     | tested_by                             | nvarchar | 100     | CVL        |
| Tested Date                   | tested_date                           | datetime |         | MM/dd/yyyy |
| Total                         | total                                 | decimal  | (19, 8) |            |
| Total Weight Sample           | total_weight_sample                   | decimal  | (19, 8) |            |

Field Form Concrete Sample - Cylinders (DB-418-A)

Table Name: VALUE\_DB418A

Maximum Rows: 1

| Field Description                   | Field Name               | Datatype      | Length  | Values      |
|-------------------------------------|--------------------------|---------------|---------|-------------|
| Actual Water                        | actual_water             | nvarchar      | 100     |             |
| Agg. Correction Factor              | agg_correction_factor    | nvarchar      | 100     | CVL         |
| Agg. Size                           | agg_size                 | nvarchar      | 100     | CVL         |
| Air Temperature                     | air_temperature          | nvarchar      | 100     |             |
| Batch Size                          | batch_size               | nvarchar      | 100     |             |
| Batch Time                          | batch_time               | nvarchar      | 100     |             |
| Class of Concrete                   | class_of_concrete        | nvarchar      | 100     | CVL         |
| Concrete Temperature                | concrete_temperature     | nvarchar      | 100     |             |
| Corrected Air Content               | corrected_air_content    | decimal       | (19, 8) |             |
| Design Water                        | design_water             | nvarchar      | 100     |             |
| Mix ID                              | mix_id                   | nvarchar      | 100     |             |
| Placement Air                       | placement_air            | decimal       | (19, 8) |             |
| Placement Slump                     | placement_slump          | decimal       | (19, 8) | CVL         |
| Pump Air Loss                       | pump_air_loss            | decimal       | (19, 8) |             |
| Pump Slump Loss                     | pump_slump_loss          | decimal       | (19, 8) |             |
| Req. Strength                       | req_strength             | nvarchar      | 100     |             |
| Sample Time                         | sample_time              | nvarchar      | 100     |             |
| Average 7 Day Compressive Strength  | seven_day_average        | decimal       | (19, 8) |             |
| Slump                               | slump                    | decimal       | (19, 8) |             |
| Specimen Size                       | specimen_size            | nvarchar      | 100     | {4x8, 6x12} |
| Stamp Code                          | stamp_code               | int           |         | CVL         |
| Tested By                           | tested_by                | nvarchar      | 100     | CVL         |
| Tested Date                         | tested_date              | smalldatetime |         | MM/dd/yyyy  |
| Ticket #                            | ticket_number            | nvarchar      | 100     |             |
| Total Water                         | total_water              | nvarchar      | 100     |             |
| Truck #                             | truck_number             | nvarchar      | 100     |             |
| Average 28 Day Compressive Strength | twenty_eight_day_average | decimal       | (19, 8) |             |
| Unit Wt.                            | unit_weight              | nvarchar      | 100     |             |
| Water Added                         | water_added              | nvarchar      | 100     |             |

Table Name: VALUE\_DB418A\_AVERAGE

Maximum Rows: 3

| Field Description | Field Name       | Datatype | Length  | Values |
|-------------------|------------------|----------|---------|--------|
| Average Age       | average_age      | nvarchar | 100     |        |
| Average Strength  | average_strength | decimal  | (19, 8) |        |

**Table Name: VALUE\_DB418A\_SPECIMEN**

**Maximum Rows: 7**

| Field Description | Field Name    | Datatype      | Length  | Values          |
|-------------------|---------------|---------------|---------|-----------------|
| Age(days)         | age           | nvarchar      | 100     | CVL             |
| Area              | area          | decimal       | (19, 8) |                 |
| Load(lbs)         | load_lbs      | decimal       | (19, 8) |                 |
| Pass/Fail         | pass_fail     | nvarchar      | 5       |                 |
| Specimen          | specimen      | nvarchar      | 100     |                 |
| Strength          | strength      | decimal       | (19, 8) |                 |
| Test Date         | test_date     | smalldatetime |         | MM/dd/yyyy      |
| Tested By         | tested_by     | nvarchar      | 100     | CVL             |
| Type Fracture     | type_fracture | varchar       | 50      | {A, B, C, D, E} |

**Determining Pavement Thickness by Direct Measurement (DB-423-A)**

**Table Name: VALUE\_DB423A**

**Maximum Rows: 1**

| Field Description | Field Name     | Datatype | Length  | Values                |
|-------------------|----------------|----------|---------|-----------------------|
| Measure Unit      | measure_unit   | nvarchar | 100     | {Inches, Millimeters} |
| Pavement Depth    | pavement_depth | decimal  | (19, 8) |                       |
| Stamp Code        | stamp_code     | int      |         | CVL                   |
| Tested By         | tested_by      | nvarchar | 100     | CVL                   |
| Tested Date       | tested_date    | datetime |         | MM/dd/yyyy            |

**Table Name: VALUE\_DB423A\_LOCATION**

**Maximum Rows: 1**

| Field Description                     | Field Name              | Datatype | Length  | Values |
|---------------------------------------|-------------------------|----------|---------|--------|
| Average                               | average                 | decimal  | (19, 8) |        |
| Measurement 1                         | measurement_1           | decimal  | (19, 8) |        |
| Measurement 2                         | measurement_2           | decimal  | (19, 8) |        |
| Measurement 3                         | measurement_3           | decimal  | (19, 8) |        |
| Measurement Identification / Location | measurement_id_location | nvarchar | 100     |        |

**Direct Measurement Of Bridge Thickness (DB-423-A, Part II)**

**Table Name: VALUE\_DB423B**

**Maximum Rows: 1**

| Field Description | Field Name  | Datatype | Length | Values     |
|-------------------|-------------|----------|--------|------------|
| Stamp Code        | stamp_code  | int      | 100    | CVL        |
| Tested By         | tested_by   | nvarchar | 100    | CVL        |
| Tested Date       | tested_date | datetime |        | MM/dd/yyyy |

**Table Name: VALUE\_DB423B\_BAY**

**Maximum Rows: 18**

| Field Description | Field Name     | Datatype | Length  | Values |
|-------------------|----------------|----------|---------|--------|
| Concrete Depth    | concrete_depth | decimal  | (19, 4) |        |
| Steel Depth       | steel_depth    | decimal  | (19, 4) |        |

**Pavement Texture (DB-436-A)**

**Table Name: VALUE\_DB436A**

| Field Description                    | Field Name    | Datatype | Length  | Values     |
|--------------------------------------|---------------|----------|---------|------------|
| Texture Depth, in (report 0.005 in ) | Texture_depth | decimal  | (19, 8) |            |
| Stamp Code                           | stamp_code    | int      |         | CVL        |
| Tested By                            | tested_by     | nvarchar | 200     | CVL        |
| Tested Date                          | tested_date   | datetime |         | MM/dd/yyyy |

**Hydraulic Cement Mortars Cubes (DB-442-A)**

**Table Name: VALUE\_DB442A**

| Field Description                   | Field Name               | Datatype      | Length  | Values     |
|-------------------------------------|--------------------------|---------------|---------|------------|
| Air Temperature                     | air_temperature          | nvarchar      | 100     |            |
| Concrete Temperature                | concrete_temperature     | nvarchar      | 100     |            |
| Cast Time                           | casttime                 | nvarchar      | 100     |            |
| Concrete Temperature                | concrete_temperature     | nvarchar      | 100     |            |
| Specific Gravity                    | specificgravity          | decimal       | (19, 8) |            |
| Humidity                            | humidity                 | nvarchar      | 100     |            |
| Average 7 Day Compressive Strength  | seven_day_average        | decimal       | (19, 8) |            |
| Slump Flow                          | slumpflow                | decimal       | (19, 8) |            |
| Stamp Code                          | stamp_code               | int           |         | CVL        |
| Tested By                           | tested_by                | nvarchar      | 100     | CVL        |
| Tested Date                         | tested_date              | smalldatetime |         | MM/dd/yyyy |
| Average 28 Day Compressive Strength | twenty_eight_day_average | decimal       | (19, 8) |            |

**Table Name: VALUE\_DB442A\_AVERAGE**

**Maximum Rows: 3**

| Field Description | Field Name       | Datatype | Length  | Values |
|-------------------|------------------|----------|---------|--------|
| Average Age       | average_age      | nvarchar | 100     |        |
| Average Strength  | average_strength | decimal  | (19, 8) |        |

**Table Name: VALUE\_DB442A\_SPECIMEN**

| Field Description | Field Name | Datatype      | Length  | Values     |
|-------------------|------------|---------------|---------|------------|
| Age(days)         | age        | nvarchar      | 100     | CVL        |
| Area              | area       | decimal       | (19, 8) |            |
| Load(lbs)         | load_lbs   | decimal       | (19, 8) |            |
| Pass/Fail         | pass_fail  | nvarchar      | 5       |            |
| Specimen          | specimen   | nvarchar      | 100     |            |
| Strength          | strength   | decimal       | (19, 8) |            |
| Test Date         | test_date  | smalldatetime |         | MM/dd/yyyy |
| Tested By         | tested_by  | nvarchar      | 100     | CVL        |

**Crushed Face Count (DB-460-A)**

**Table Name: VALUE\_DB460Part1**

| Field Description            | Field Name      | Datatype | Length  | Values     |
|------------------------------|-----------------|----------|---------|------------|
| Percent Crushed Particles, % | percent_crushed | decimal  | (19, 8) |            |
| Stamp Code                   | stamp_code      | int      |         | CVL        |
| Tested By                    | tested_by       | nvarchar | 200     | CVL        |
| Tested Date                  | tested_date     | datetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB436A**

**Maximum Rows: 1**

| Field Description | Field Name    | Datatype      | Length  | Values     |
|-------------------|---------------|---------------|---------|------------|
| Average Diameter  | avg_diameter  | decimal       | (19, 8) |            |
| Diameter 1        | measurement_1 | decimal       | (19, 8) |            |
| Diameter 2        | measurement_2 | decimal       | (19, 8) |            |
| Diameter 3        | measurement_3 | decimal       | (19, 8) |            |
| Diameter 4        | measurement_4 | decimal       | (19, 8) |            |
| Stamp Code        | stamp_code    | int           |         | CVL        |
| Tested By         | tested_by     | varchar       | 200     | CVL        |
| Tested Date       | tested_date   | smalldatetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB530C**

**Maximum Rows: 1**

| Field Description              | Field Name        | Datatype | Length | Values     |
|--------------------------------|-------------------|----------|--------|------------|
| Estimated Percent of Stripping | est_pct_stripping | nvarchar | 100    |            |
| Stamp Code                     | stamp_code        | int      |        | CVL        |
| Tested By                      | tested_by         | nvarchar | 100    | CVL        |
| Tested Date                    | tested_date       | datetime |        | MM/dd/yyyy |



**\*\*INACTIVE\*\***

**Soil / Aggregate Field Unit Weight Tests (DB-115-2)**

**Table Name: VALUE\_DB115\_1**

**Maximum Rows: 1**

| Field Description                         | Field Name                | Datatype | Length  | Values     |
|---|---------------------------|----------|---------|------------|
| Compaction, %                             | compaction_pct            | decimal  | (19, 8) |            |
| Compaction Required                       | compaction_req_pct        | decimal  | (19, 8) |            |
| Dry unit weight                           | dry_unit_weight           | decimal  | (19, 8) |            |
| Dry Weight Total Moisture Sample          | dry_weight_total_moisture | decimal  | (19, 8) |            |
| Final Weight Apparatus & Sand             | final_weight_apparatus    | decimal  | (19, 8) |            |
| Final Weight of Sand                      | final_weight_sand         | decimal  | (19, 8) |            |
| Initial Weight Apparatus & Sand           | initial_weight_apparatus  | decimal  | (19, 8) |            |
| Initial Weight of Sand                    | initial_weight_sand       | decimal  | (19, 8) |            |
| Maximum dry unit weight                   | max_dry_unit_weight       | decimal  | (19, 8) |            |
| Moisture Required                         | moisture_req_pct          | decimal  | (19, 8) |            |
| Optium Moisture (% if of dry unit weight) | optimum_moisture          | decimal  | (19, 8) |            |
| Pass/Fail % Density                       | pass_fail_pct_density     | nvarchar | 100     |            |
| Pass/Fail % Moisture                      | pass_fail_pct_moisture    | nvarchar | 100     |            |
| % Moisture                                | pct_moisture              | decimal  | (19, 8) |            |
| Sand bulk unit weight                     | sand_bulk_unit_weight     | decimal  | (19, 8) |            |
| Soil Descript                             | soil_desc                 | nvarchar | 100     |            |
| Stamp Code                                | stamp_code                | int      |         | CVL        |
| Tested By                                 | tested_by                 | nvarchar | 100     | CVL        |
| Tested Date                               | tested_date               | datetime |         | MM/dd/yyyy |
| Total Volume-Sand Userd                   | total_volume              | decimal  | (19, 8) |            |
| Volume of Hole                            | volume_hole               | decimal  | (19, 8) |            |
| Volume of Surface                         | volume_surface            | decimal  | (19, 8) |            |
| Weight of Material From Hole              | weight_material_hole      | decimal  | (19, 8) |            |
| Wet Unit Weight                           | wet_unit_weight           | decimal  | (19, 8) |            |
| Wet Weight Total Moisture Sample          | wet_weight_total_moisture | decimal  | (19, 8) |            |

**\*\*INACTIVE\*\***

**Soil-Cement, Soil-Lime Testing (DB-120-E)**

**Table Name: VALUE\_DB120E**

**Maximum Rows: 1**

| Field Description           | Field Name               | Datatype | Length  | Values |
|-----------------------------|--------------------------|----------|---------|--------|
| Avg. Corrected Stress, psi: | avg_corrected_stress_psi | decimal  | (19, 8) |        |
| Percent Cement, (%)         | percent_cement           | decimal  | (19, 8) |        |
| Performed By DB-120-E:      | performed_by             | nvarchar | 200     |        |
| Stamp Code                  | stamp_code               | int      |         | CVL    |
| Target Percent Cement, %:   | target_percent_cement    | decimal  | (19, 8) |        |
| Target Stress, psi:         | target_stress_psi        | decimal  | (19, 8) |        |
| Tested By                   | tested_by                | nvarchar | 200     | CVL    |

**Table Name: VALUE\_DB120E\_SPECIMEN**

**Maximum Rows: 3**

| Field Description                | Field Name              | Datatype | Length  | Values |
|----------------------------------|-------------------------|----------|---------|--------|
| Area, in.^2:                     | area                    | decimal  | (19, 8) |        |
| Avg. Corrected Stress, psi:      | avg_corrected_stress    | decimal  | (19, 8) |        |
| Avg. Cross Sectional Area, in^2: | avg_cross_section_area  | decimal  | (19, 8) |        |
| Average Diameter, in.:           | avg_diameter            | decimal  | (19, 8) |        |
| Circumference, in.:              | circumference           | decimal  | (19, 8) |        |
| Corrected Stress, psi.:          | corrected_stress        | decimal  | (19, 8) |        |
| Dead Load, lbs.:                 | dead_load               | decimal  | (19, 8) |        |
| Deformation at Max Load, in.     | deformation_at_max_load | decimal  | (19, 8) |        |
| Height of Stone 1, in.           | height_stone1           | decimal  | (19, 8) |        |
| Height of Stone 2, in.           | height_stone2           | decimal  | (19, 8) |        |
| I-Strain, in./in.:               | i_strain                | decimal  | (19, 8) |        |
| Initial Height of Specimen, in.: | initial_height_specimen | decimal  | (19, 8) |        |
| Lateral Pressure, psi.:          | lateral_pressure        | decimal  | (19, 8) |        |
| Max. Load Reading, div.          | max_load_reading        | decimal  | (19, 8) |        |
| New Height of Specimen, in.:     | new_height_specimen     | decimal  | (19, 8) |        |
| % Strain , in./in.:              | pct_strain              | decimal  | (19, 8) |        |
| Percent Cement, (%)              | percent_cement          | decimal  | (19, 8) |        |
| Ring Factor, lbs./div            | ring_factor             | decimal  | (19, 8) |        |
| Specimen Number:                 | specimen_no             | int      |         |        |
| Uncorr'd Stress, psi.:           | uncorrected_stress      | decimal  | (19, 8) |        |



**\*\*INACTIVE\*\***

**Table Name: VALUE\_DB121E**

**Maximum Rows: 1**

| Field Description                  | Field Name                       | Datatype      | Length  | Values     |
|------------------------------------|----------------------------------|---------------|---------|------------|
| Average Corrected Strength, 00 psi | average_corrected_strength_0psi  | decimal       | (19, 8) |            |
| Average Corrected Strength, 15 psi | average_corrected_strength_15psi | decimal       | (19, 8) |            |
| Classification                     | classification                   | nvarchar      | 100     |            |
| Cohesion, psi                      | cohesion_psi                     | decimal       | (19, 8) |            |
| Correlation Factor                 | correlation_factor               | decimal       | (19, 8) |            |
| Grade, 00 psi                      | grade_0psi                       | nvarchar      | 100     |            |
| Grade, 15 psi                      | grade_15psi                      | nvarchar      | 100     |            |
| Internal Angle of Friction         | internal_angle_friction          | decimal       | (19, 8) |            |
| Stamp Code                         | stamp_code                       | int           |         | CVL        |
| Tested By                          | tested_by                        | nvarchar      | 100     | CVL        |
| Tested Date                        | tested_date                      | smalldatetime |         | MM/dd/yyyy |

**Table Name: VALUE\_DB121E\_SPECIMEN**

**Maximum Rows: 8**

| Field Description               | Field Name               | Datatype | Length  | Values |
|---------------------------------|--------------------------|----------|---------|--------|
| Area, in.^2                     | area                     | decimal  | (19, 8) |        |
| Avg. Cross Sectional Area, in^2 | avg_cross_sectional_area | decimal  | (19, 8) |        |
| Average Diameter, in.           | avg_diameter             | decimal  | (19, 8) |        |
| Corrected Stress, psi.          | corrected_stress_psi     | decimal  | (19, 8) |        |
| Dry Density of Specimen, pcf    | dry_density_specimen_pcf | decimal  | (19, 8) |        |
| Final Weight of Stones          | final_weight_stones      | decimal  | (19, 8) |        |
| Height of Stone 1, in.          | height_stone1            | decimal  | (19, 8) |        |
| Height of Stone 2, in.          | height_stone2            | decimal  | (19, 8) |        |
| I-Strain, in./in.               | i_strain                 | decimal  | (19, 8) |        |
| Initial Height of Specimen, in. | initial_height           | decimal  | (19, 8) |        |
| Lateral Pressure, psi.          | lateral_pressure_psi     | decimal  | (19, 8) |        |
| New Height of Specimen, in.     | new_height               | decimal  | (19, 8) |        |
| Moisture of Specimen, %         | pct_moisture_specimen    | decimal  | (19, 8) |        |
| % Strain , in./in.              | pct_strain               | decimal  | (19, 8) |        |
| Uncorrected Stress, psi.        | uncorrected_stress_psi   | decimal  | (19, 8) |        |
| Weight of Specimen              | weight_specimen          | decimal  | (19, 8) |        |
| Weight of Stones and Specimen   | weight_stones_specimen   | decimal  | (19, 8) |        |

**\*\*INACTIVE\*\***

**Density of Asphalt Stabilized Base (DB-126-E)**

**Table Name: VALUE\_DB126E**

**Maximum Rows: 1**

| Field Description                                | Field Name              | Datatype      | Length  | Values                   |
|--|-------------------------|---------------|---------|--------------------------|
| Percent Asphalt in Mix(max)                      | asphalt_pct_max         | decimal       | (19, 8) |                          |
| Percent Asphalt in Mix(min)                      | asphalt_pct_min         | decimal       | (19, 8) |                          |
| Broken Method                                    | broken_method           | nvarchar      | 20      | {Fast Break, Slow Break} |
| Date Broken(max)(max)                            | date_broken_max         | smalldatetime |         | MM/dd/yyyy               |
| Date Broken(min)                                 | date_broken_min         | smalldatetime |         | MM/dd/yyyy               |
| Density of Specimen(max)                         | density_of_specimen_max | decimal       | (19, 8) |                          |
| Density of Specimen(min)                         | density_of_specimen_min | decimal       | (19, 8) |                          |
| Gauge Reading(max)                               | gague_reading_psi_max   | decimal       | (19, 8) |                          |
| Gauge Reading (min)                              | gague_reading_psi_min   | decimal       | (19, 8) |                          |
| Height of Specimen(max)                          | height_max              | decimal       | (19, 8) |                          |
| Height of Specimen(min)                          | height_min              | decimal       | (19, 8) |                          |
| Measured Weight(max)                             | measured_weight_max     | decimal       | (19, 8) |                          |
| Measured Weight(min)                             | measured_weight_min     | decimal       | (19, 8) |                          |
| Minimum Allowable Density                        | min_allowable_density   | decimal       | (19, 8) |                          |
| Minimum Percent Density                          | min_pct_density         | decimal       | (19, 8) |                          |
| Minimum Specimen Unconfined Compressive Strength | min_specimen_UCS        | decimal       | (19, 8) |                          |
| Mold Number(max)                                 | mold_number_max         | nvarchar      | 100     |                          |
| Mold Number(min)                                 | mold_number_min         | nvarchar      | 100     |                          |
| Date Molded(max)                                 | molded_date_max         | smalldatetime |         | MM/dd/yyyy               |
| Date Molded(min)                                 | molded_date_min         | smalldatetime |         | MM/dd/yyyy               |
| Stamp Code                                       | stamp_code              | int           |         | CVL                      |
| Tested By  | tested_by               | nvarchar      | 100     | CVL                      |
| Tested Date                                      | tested_date             | datetime      |         | MM/dd/yyyy               |
| Unconfined Compressive Strength (max)            | UCS_max                 | nvarchar      | 100     |                          |
| Unconfined Compressive Strength (min)            | UCS_min                 | nvarchar      | 100     |                          |
| Volume of Mold(max)                              | volume_of_mold_max      | decimal       | (19, 8) |                          |
| Volume of Mold(min)                              | volume_of_mold_min      | decimal       | (19, 8) |                          |
| Volume of Specimen(max)                          | volume_of_specimen_max  | decimal       | (19, 8) |                          |
| Volume of Specimen(min)                          | volume_of_specimen_min  | decimal       | (19, 8) |                          |
| Weight of Filters(max)                           | weight_of_filters_max   | decimal       | (19, 8) |                          |
| Weight of Filters(min)                           | weight_of_filters_min   | decimal       | (19, 8) |                          |

**\*\*INACTIVE\*\***

| Field Description       | Field Name             | Datatype | Length  | Values |
|-------------------------|------------------------|----------|---------|--------|
| Weight of Material(max) | weight_of_mat_max      | decimal  | (19, 8) |        |
| Weight of Material(min) | weight_of_mat_min      | decimal  | (19, 8) |        |
| Weight of Plates(max)   | weight_of_plates_max   | decimal  | (19, 8) |        |
| Weight of Plates(min)   | weight_of_plates_min   | decimal  | (19, 8) |        |
| Weight of Specimen(max) | weight_of_specimen_max | decimal  | (19, 8) |        |
| Weight of Specimen(min) | weight_of_specimen_min | decimal  | (19, 8) |        |

**Determining Flakiness index (DB-224-F)**

**Table Name: VALUE\_DB224F**

**Maximum Rows: 1**

| Field Description                          | Field Name      | Datatype | Length  | Values     |
|--|-----------------|----------|---------|------------|
| Flakiness Index                            | flakiness_index | decimal  | (19, 8) |            |
| Number of Particles                        | num_particles_1 | decimal  | (19, 8) |            |
| Number of Particles                        | num_particles_2 | decimal  | (19, 8) |            |
| Number of Particles                        | num_particles_3 | decimal  | (19, 8) |            |
| Number of Particles Passing for 1/4" slot  | slot_1_4        | decimal  | (19, 8) |            |
| Number of Particles Passing for 3/8" slot  | slot_3_8        | decimal  | (19, 8) |            |
| Number of Particles Passing for 5/32" slot | slot_5_32       | decimal  | (19, 8) |            |
| Stamp Code                                 | stamp_code      | int      |         | CVL        |
| Tested By                                  | tested_by       | nvarchar | 100     | CVL        |
| Tested Date                                | tested_date     | datetime |         | MM/dd/yyyy |
| Total Particles                            | total_particles | decimal  | (19, 8) |            |

**Table Name: VALUE\_DB235F**

**Maximum Rows: 1**

| Field Description                            | Field Name           | Datatype | Length  | Values |
|--|----------------------|----------|---------|--------|
| Average Percent of Draindown for Two Samples | avg_pct_draindown    | decimal  | (19, 8) |        |
| Final Weight Plate                           | final_weight_plate_1 | decimal  | (19, 8) |        |
| Final Weight Plate                           | final_weight_plate_2 | decimal  | (19, 8) |        |
| Initial Sample Weight                        | init_sample_weight_1 | decimal  | (19, 8) |        |
| Initial Sample Weight                        | init_sample_weight_2 | decimal  | (19, 8) |        |
| Initial Weight Plate                         | init_weight_plate_1  | decimal  | (19, 8) |        |

**\*\*INACTIVE\*\***

| Field Description    | Field Name          | Datatype | Length  | Values     |
|----------------------|---------------------|----------|---------|------------|
| Initial Weight Plate | init_weight_plate_2 | decimal  | (19, 8) |            |
| Percent of Draindown | pct_draindown_1     | decimal  | (19, 8) |            |
| Percent of Draindown | pct_draindown_2     | decimal  | (19, 8) |            |
| Stamp Code           | stamp_code          | int      |         | CVL        |
| Tested By            | tested_by           | nvarchar | 100     | CVL        |
| Tested Date          | tested_date         | datetime |         | MM/dd/yyyy |

Table Name: VALUE\_DB410A

Maximum Rows: 1

| Field Description | Field Name        | Datatype | Length  | Values     |
|-------------------|-------------------|----------|---------|------------|
| Final Weight      | final_weight      | decimal  | (19, 8) |            |
| Initial Weight    | initial_weight    | decimal  | (19, 8) |            |
| La Abrasion Type  | la_abrasion_type  | nvarchar | 100     | CVL        |
| La Abrasion Value | la_abrasion_value | decimal  | (19, 8) |            |
| Loss of Weight    | loss_of_weight    | decimal  | (19, 8) |            |
| Number of Spheres | number_of_spheres | int      |         |            |
| Percent Loss      | percent_loss      | decimal  | (19, 8) |            |
| Sieve             | sieve             | nvarchar | 100     |            |
| Stamp Code        | stamp_code        | int      |         | CVL        |
| Tested By         | tested_by         | nvarchar | 100     | CVL        |
| Tested Date       | tested_date       | datetime |         | MM/dd/yyyy |
| Weight of Charge  | weight_of_charge  | nvarchar | 100     |            |

Table Name: VALUE\_DB410A\_SAMPLE

Maximum Rows: 4

| Field Description | Field Name       | Datatype | Length  | Values |
|-------------------|------------------|----------|---------|--------|
| Actual Weight     | actual_weight    | decimal  | (19, 8) |        |
| Passing Sieve     | passing_sieve    | nvarchar | 100     |        |
| Projected Weight  | projected_weight | nvarchar | 100     |        |
| Retained Sieve    | retained_sieve   | nvarchar | 100     |        |
| Within Range      | within_range     | bit      |         |        |

Table Name: VALUE\_DB411M

Maximum Rows: 1

| Field Description                            | Field Name            | Datatype      | Length  | Values     |
|--|-----------------------|---------------|---------|------------|
| Normalized Individual Percent Retained Total | ni_pct_retained_total | decimal       | (19, 8) |            |
| % Loss Total                                 | pct_loss_total        | decimal       | (19, 8) |            |
| Soundness Loss                               | soundness_loss        | decimal       | (19, 8) |            |
| Stamp Code                                   | stamp_code            | int           |         | CVL        |
| Tested By                                    | tested_by             | nvarchar      | 100     | CVL        |
| Tested Date                                  | tested_date           | smalldatetime |         | MM/dd/yyyy |

**\*\*INACTIVE\*\***

| Field Description             | Field Name                  | Datatype | Length  | Values |
|-------------------------------|-----------------------------|----------|---------|--------|
| Weighted Average % Loss Total | weighted_avg_pct_loss_total | decimal  | (19, 8) |        |

**Table Name: VALUE\_DB411M\_CYCLE**

**Maximum Rows: 5**

| Field Description     | Field Name            | Datatype      | Length | Values     |
|-----------------------|-----------------------|---------------|--------|------------|
| Cycle                 | cycle                 | nvarchar      | 5      |            |
| In Oven Date          | in_oven_date          | smalldatetime |        | MM/dd/yyyy |
| In Oven Time In       | in_oven_time_in       | smalldatetime |        | MM/dd/yyyy |
| In Oven Time Out      | in_oven_time_out      | smalldatetime |        | MM/dd/yyyy |
| In Solution Date      | in_solution_date      | smalldatetime |        | MM/dd/yyyy |
| In Solution Time In   | in_solution_time_in   | smalldatetime |        | MM/dd/yyyy |
| In Solution Time Out  | in_solution_time_out  | smalldatetime |        | MM/dd/yyyy |
| Out Oven Date         | out_oven_date         | smalldatetime |        | MM/dd/yyyy |
| Out Oven Time In      | out_oven_time_in      | smalldatetime |        | MM/dd/yyyy |
| Out Oven Time Out     | out_oven_time_out     | smalldatetime |        | MM/dd/yyyy |
| Out Solution Date     | out_solution_date     | smalldatetime |        | MM/dd/yyyy |
| Out Solution Time In  | out_solution_time_in  | smalldatetime |        | MM/dd/yyyy |
| Out Solution Time Out | out_solution_time_out | smalldatetime |        | MM/dd/yyyy |
| Remarks               | remarks               | nvarchar      | 250    |            |

**Table Name: VALUE\_DB411M\_PARTICLE**

**Maximum Rows: 8**

| Field Description                      | Field Name          | Datatype | Length  | Values |
|--|---------------------|----------|---------|--------|
| Final Weight (g)                       | final_weight        | decimal  | (19, 8) |        |
| Initial Weight (g)                     | initial_weight      | decimal  | (19, 8) |        |
| Loss of Weight (g)                     | loss_of_weight      | decimal  | (19, 8) |        |
| Normalized Individual Percent Retained | ni_pct_retained     | decimal  | (19, 8) |        |
| % Loss                                 | pct_loss            | decimal  | (19, 8) |        |
| Particle Size Range Passing            | size_range_passing  | nvarchar | 100     |        |
| Particle Size Range Retained           | size_range_retained | nvarchar | 100     |        |

**\*\*INACTIVE\*\***

Testing of Drilled Cores of Portland Cement Concrete (DB-424-A, Part III)

Table Name: VALUE\_DB424A

Maximum Rows: 1

| Field Description      | Field Name        | Datatype | Length | Values     |
|------------------------|-------------------|----------|--------|------------|
| Stamp Code             | stamp_code        | int      |        | CVL        |
| Tested By              | tested_by         | nvarchar | 100    | CVL        |
| Tested By - Part II    | tested_by_part2   | nvarchar | 100    | CVL        |
| Tested By - Part III   | tested_by_part3   | nvarchar | 100    | CVL        |
| Tested Date            | tested_date       | datetime |        | MM/dd/yyyy |
| Tested Date - Part II  | tested_date_part2 | datetime |        | MM/dd/yyyy |
| Tested Date - Part III | tested_date_part3 | datetime |        | MM/dd/yyyy |

Table Name: VALUE\_DB424A\_CORE

Maximum Rows: 4

| Field Description         | Field Name            | Datatype | Length  | Values |
|---------------------------|-----------------------|----------|---------|--------|
| Age (Days)                | age                   | int      |         |        |
| Compressive Strength      | compressive_strength1 | decimal  | (19, 8) |        |
| Compressive Strength      | compressive_strength2 | decimal  | (19, 8) |        |
| Diameter of Core (inches) | core_diameter1        | decimal  | (19, 8) |        |
| Diameter of Core (inches) | core_diameter2        | decimal  | (19, 8) |        |
| Length of Core (inches)   | core_length1          | decimal  | (19, 8) |        |
| Length of Core (inches)   | core_length2          | decimal  | (19, 8) |        |
| Core Number               | core_number1          | nvarchar | 100     |        |
| Core Number               | core_number2          | nvarchar | 100     |        |
| Failure Type              | failure_type1         | nvarchar | 100     |        |
| Failure Type              | failure_type2         | nvarchar | 100     |        |
| Max Load (Lbs)            | max_load1             | decimal  | (19, 8) |        |
| Max Load (Lbs)            | max_load2             | decimal  | (19, 8) |        |

**\*\*INACTIVE\*\***

**Concrete Sample - Beams (DB-448-A)**

**Table Name: VALUE\_DB448A**

**Maximum Rows: 1**

| Field Description      | Field Name            | Datatype      | Length  | Values     |
|------------------------|-----------------------|---------------|---------|------------|
| Actual Water           | act_water             | decimal       | (19, 8) |            |
| Added Gal              | added_gal             | decimal       | (19, 8) |            |
| Agg. Correction Factor | agg_corr_factor       | decimal       | (19, 8) | CVL        |
| Agg Size               | agg_size              | nvarchar      | 100     | CVL        |
| Air Temperature        | air_temp              | decimal       | (19, 8) |            |
| Batch Size             | batch_size            | decimal       | (19, 8) |            |
| Batch Time             | batch_time            | smalldatetime |         | MM/dd/yyyy |
| Class of Concrete      | class_concrete        | nvarchar      | 100     | CVL        |
| Concrete Temperature   | concrete_temp         | decimal       | (19, 8) |            |
| Corrected Air Content  | corrected_air_content | decimal       | (19, 8) | CVL        |
| Design Water           | des_water             | decimal       | (19, 8) |            |
| Mix ID                 | mix_id                | nvarchar      | 100     | CVL        |
| Qty Load               | qty_load              | decimal       | (19, 8) |            |
| Req. Strength, psi     | req_strength          | decimal       | (19, 8) |            |
| Sample Time            | sample_time           | smalldatetime |         | MM/dd/yyyy |
| Slump                  | slump                 | decimal       | (19, 8) | CVL        |
| Specimen Dimensions    | spec_dimensions       | nvarchar      | 100     | CVL        |
| Stamp Code             | stamp_code            | int           |         | CVL        |
| Tested By              | tested_by             | nvarchar      | 100     | CVL        |
| Tested Date            | tested_date           | datetime      |         | MM/dd/yyyy |
| Ticket Number          | ticket_num            | decimal       | (19, 8) |            |
| Total Water            | total_water           | decimal       | (19, 8) |            |
| Truck Number           | truck_num             | decimal       | (19, 8) |            |
| Unit Weight            | unit_weight           | decimal       | (19, 8) |            |

**Table Name: VALUE\_DB448A\_SPECIMEN**

**Maximum Rows: 6**

| Field Description | Field Name   | Datatype | Length  | Values |
|-------------------|--------------|----------|---------|--------|
| Age               | age          | nvarchar | 100     | CVL    |
| Avg Depth         | avg_depth    | decimal  | (19, 8) |        |
| Avg. Width        | avg_width    | decimal  | (19, 8) |        |
| Correction Factor | corr_factor  | decimal  | (19, 8) |        |
| Max Load, lbs     | max_load_psi | decimal  | (19, 8) |        |
| Mod Rupture       | mod_rupture  | decimal  | (19, 8) |        |
| Pass Fail         | pass_fail    | nvarchar | 100     |        |

**\*\*INACTIVE\*\***

| Field Description | Field Name | Datatype      | Length | Values     |
|-------------------|------------|---------------|--------|------------|
| Specimen          | specimen   | nvarchar      | 100    |            |
| Test Date         | test_date  | smalldatetime |        | MM/dd/yyyy |
| Tested By         | tested_by  | nvarchar      | 100    | CVL        |

**Table Name: VALUE\_DB460A**

**Maximum Rows: 1**

| Field Description                   | Field Name                       | Datatype      | Length  | Values     |
|-------------------------------------|----------------------------------|---------------|---------|------------|
| Number of Particles w/ one or no FF | number_of_particles_with_one     | int           |         |            |
| Number of Particles w/ 2 or more FF | number_of_particles_with_two     | int           |         |            |
| Number of Questionable Particles    | number_of_questionable_particles | int           |         |            |
| Percent Crushed Particles           | percent_crushed_particles        | decimal       | (19, 8) |            |
| Percent Crushed Particles           | percent_crushed_particles_result | decimal       | (19, 8) |            |
| Sieve Size                          | sieve_size                       | nvarchar      | 100     |            |
| Stamp Code                          | stamp_code                       | int           |         | CVL        |
| Tested By                           | tested_by                        | nvarchar      | 100     | CVL        |
| Tested Date                         | tested_date                      | smalldatetime |         | MM/dd/yyyy |
| Total Number of Particles           | total_number_of_particles        | int           |         |            |

**Table Name: VALUE\_DB620J**

**Maximum Rows: 1**

| Field Description         | Field Name              | Datatype | Length  | Values |
|---------------------------|-------------------------|----------|---------|--------|
| Chloride (CL) (PPM)       | chloride_ppm            | decimal  | (19, 8) |        |
| Crucible + Residue Weight | crucible_residue_weight | decimal  | (19, 8) |        |
| Crucible Weight           | crucible_weight         | decimal  | (19, 8) |        |
| Ending                    | ending                  | decimal  | (19, 8) |        |
| Normality of AgNO3        | normality_of_agno3      | decimal  | (19, 8) |        |
| Residue Weight            | residue_weight          | decimal  | (19, 8) |        |
| Sample Weight             | sample_weight_chloride  | decimal  | (19, 8) |        |
| Sample Weight             | sample_weight_sulfate   | decimal  | (19, 8) |        |
| Stamp Code                | stamp_code              | int      |         | CVL    |
| Starting                  | starting                | decimal  | (19, 8) |        |
| Sulfate (SO4) (PPM)       | sulfate_ppm             | decimal  | (19, 8) |        |
| Tested By                 | tested_by               | nvarchar | 100     | CVL    |
| Tested Date               | tested_date             | nvarchar | 100     |        |
| Total                     | total                   | decimal  | (19, 8) |        |