



## LEA Program – Lab Assessment Report

LEA #: \_\_\_\_\_ Laboratory Name: \_\_\_\_\_ Date: \_\_\_\_\_

Engineering Manager: \_\_\_\_\_

Geotechnical Engineer: \_\_\_\_\_ Other: \_\_\_\_\_

Laboratory Manager: \_\_\_\_\_ Other: \_\_\_\_\_

*[Referenced Standards shown in brackets are ASTM unless otherwise noted]*

### 1. SOILS AND AGGREGATE

#### Y N Evaluation Records [D3740]

- |    | Y                        | N                        |  | <input type="checkbox"/> SOIL | <input type="checkbox"/> AGG. | <input type="checkbox"/> A/C | <input type="checkbox"/> METALS | Corrective Action Required |
|----|--------------------------|--------------------------|--|-------------------------------|-------------------------------|------------------------------|---------------------------------|----------------------------|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | AMRL Participation #: _____            |                               |                               |                              |                                 | <input type="checkbox"/>   |
|    |                          |                          | Last assessment: ____ / ____ / ____    |                               |                               |                              |                                 |                            |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | PSP Participation #: _____             |                               |                               |                              |                                 | <input type="checkbox"/>   |
|    |                          |                          | Last sample report: ____ / ____ / ____ |                               |                               |                              |                                 |                            |

#### Y N Equipment

- |     |                          |                          |   |  |  |                  |  |                          |
|-----|--------------------------|--------------------------|---|--|--|------------------|--|--------------------------|
| 3.  | <input type="checkbox"/> | <input type="checkbox"/> | Scales and balances _____                           |  |  | calib. by: _____ |  | <input type="checkbox"/> |
|     |                          |                          | Calibration / Verification Date: ____ / ____ / ____ |  |  |                  |  |                          |
| 4.  | <input type="checkbox"/> | <input type="checkbox"/> | Sample splitters coarse/fine [C702/12] _____        |  |  |                  |  | <input type="checkbox"/> |
| 5.  | <input type="checkbox"/> | <input type="checkbox"/> | Mechanical shakers [C136/12] _____                  |  |  |                  |  | <input type="checkbox"/> |
| 6.  | <input type="checkbox"/> | <input type="checkbox"/> | Ovens [D1557/4] _____                               |  |  |                  |  | <input type="checkbox"/> |
| 7.  | <input type="checkbox"/> | <input type="checkbox"/> | Sieves _____  |  |  | calib. by: _____ |  | <input type="checkbox"/> |
|     |                          |                          | Calibration / Verification Date: ____ / ____ / ____ |  |  |                  |  |                          |
| 8.  | <input type="checkbox"/> | <input type="checkbox"/> | Compaction Molds [D1557/12] _____                   |  |  |                  |  | <input type="checkbox"/> |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Sand equivalent apparatus [D2419/12] _____          |  |  |                  |  | <input type="checkbox"/> |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Liquid limit Device [D4318/12] _____                |  |  |                  |  | <input type="checkbox"/> |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | Thermometers [E77/6] _____                          |  |  |                  |  | <input type="checkbox"/> |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Straight Edges [D1557/4] _____                      |  |  |                  |  | <input type="checkbox"/> |
| 14. | <input type="checkbox"/> | <input type="checkbox"/> | Calipers [D3740/6] _____                            |  |  |                  |  | <input type="checkbox"/> |
| 14. | <input type="checkbox"/> | <input type="checkbox"/> | Sand cone apparatus [D1556] _____                   |  |  |                  |  | <input type="checkbox"/> |
| 15. | <input type="checkbox"/> | <input type="checkbox"/> | Sand [D1556/12] _____                               |  |  |                  |  | <input type="checkbox"/> |
| 16. | <input type="checkbox"/> | <input type="checkbox"/> | Nuclear density gauges _____                        |  |  |                  |  | <input type="checkbox"/> |
| 17. | <input type="checkbox"/> | <input type="checkbox"/> | Kneading compactor (R value) _____                  |  |  | calib. by: _____ |  | <input type="checkbox"/> |

### 2. REINFORCING STEEL

#### Y N Equipment [A370]

- |    |                          |                          |   |  |  |  |  |                          |
|----|--------------------------|--------------------------|---|--|--|--|--|--------------------------|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Grips and shims _____                         |  |  |  |  | <input type="checkbox"/> |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Bend fixture and pins _____                   |  |  |  |  | <input type="checkbox"/> |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | Extensometer for cable testing _____          |  |  |  |  | <input type="checkbox"/> |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | Grip apparatus for bolt testing _____         |  |  |  |  | <input type="checkbox"/> |
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Bend test apparatus for weld coupons _____    |  |  |  |  | <input type="checkbox"/> |
| 6. | <input type="checkbox"/> | <input type="checkbox"/> | Measuring tools for area and elongation _____ |  |  |  |  | <input type="checkbox"/> |

LEA # \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Universal Testing Machine [E4/12]**

**Y N Machine Information:**

7.   Maker: \_\_\_\_\_ Identification Number: \_\_\_\_\_ Capacity: \_\_\_\_\_ /K

**Y N Calibration Information:**

8.   Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ By: \_\_\_\_\_

**3. CONCRETE**

**Y N Evaluation Records [C1077]**

1.   CCRL Participation #: \_\_\_\_\_  MASONRY  AGG.  CONCRETE  REINFORCING

Last assessment: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

2.   PSP Participation #: \_\_\_\_\_  MASONRY  AGG.  CONCRETE  REINFORCING

Last sample report: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Y N Procedures / Records**

3.   Specimen identification procedures \_\_\_\_\_

4.   Specimen initial curing procedures \_\_\_\_\_

5.   Transportation of specimens to laboratory \_\_\_\_\_

6.   Cylindrical molds [C470/12] \_\_\_\_\_

Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**Curing Facilities [C511]**

**Y N Moist Room:**

7.   Surfaces of all specimens moist \_\_\_\_\_

8.   Spray not dripping directly on cylinders \_\_\_\_\_

9.   Thermostatically controlled  heating  cooling \_\_\_\_\_

10.   Recording thermometer check/review charts [C511/6] \_\_\_\_\_ calib. by: \_\_\_\_\_

Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

11.   Temperature @ 23.0 ± 2.0 °C \_\_\_\_\_

DSA \_\_\_\_\_ °F/C Ref. \_\_\_\_\_ °F/C Rec. \_\_\_\_\_ °F/C

12.   Humidity not less than 95% \_\_\_\_\_

**Y N Water Tanks:**

13.   Water saturated with high calcium hydrated lime \_\_\_\_\_

14.   Thermostatically controlled  heating  cooling \_\_\_\_\_

15.   Recording thermometer for each tank [C511/6] \_\_\_\_\_ calib. by: \_\_\_\_\_

Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

16.   Recording thermometer for tanks connected with water circulating \_\_\_\_\_

17.   Temperature @ 23.0 ± 2.0 °C \_\_\_\_\_

DSA \_\_\_\_\_ °F/C Ref. \_\_\_\_\_ °F/C Rec. \_\_\_\_\_ °F/C

**Capping Facilities [C617]**

**Y N Equipment:**

18.   Capping plate (steel machined) > ½" thick \_\_\_\_\_

19.   Capping plate 1" greater than specimen \_\_\_\_\_

20.   Working surface plainness < .002 in 6" \_\_\_\_\_

21.   Free of gouges etc. > .010 deep or .05 surface area \_\_\_\_\_

LEA # \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

- 22.   Plate with recess requires 1/2" of plate below \_\_\_\_\_
- 23.   Recess in plate 1/2" or less \_\_\_\_\_
- 24.   Alignment device perpendicular within 1/8" – 12" \_\_\_\_\_
- 25.   Melting pot for sulfur mortars \_\_\_\_\_
- 26.   Exhaust hood \_\_\_\_\_
- 27.   2" cube mold with cover plate [C617/30] \_\_\_\_\_
- 28.   Straight edge with feeler gage \_\_\_\_\_
- 29.   All metal thermometer \_\_\_\_\_

**Y N Records of Capping Material: [C617]**

Trade name or composition \_\_\_\_\_

- 30.   Records compressive strength \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ By: \_\_\_\_\_
- 31.   Daily check of plainness of caps \_\_\_\_\_
- 32.   Un-bonded pad usage records [C1231] \_\_\_\_\_
- 33.   Technician certification \_\_\_\_\_   
Name: \_\_\_\_\_

**Compression Testing Machine**

**Y N Machine Information: [C39]**

- 34.   Maker: \_\_\_\_\_ Identification Number: \_\_\_\_\_ Capacity: \_\_\_\_\_ /K

**Y N Calibration Information: [E4/12]**

- 35.   Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ By: \_\_\_\_\_

**Y N Apparatus:**

- 36.   Sufficient capacity and load rate \_\_\_\_\_
- 37.   Lubricated spherical bearing block \_\_\_\_\_
- 38.   Blocks plane to .001" in 6" \_\_\_\_\_
- 39.   Bottom bearing block 1" thick, new .9 used \_\_\_\_\_
- 40.   Unbonded caps [C1231] \_\_\_\_\_
- 41.   Measuring tools \_\_\_\_\_

**Y N Field Equipment**

- 42.   Slump cones [C143/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 43.   Air meter – volumetric [C173/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 44.   Air meter – pressure [C231/4] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 45.   Rebar locator (Pachometer/GPR) \_\_\_\_\_
- 46.   Torque test equipment [E2428] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 47.   Proof load test equipment [E488/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

LEA # \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

#### 4. MASONRY

**Y N Basic Equipment:**

1.   Core shear test apparatus [CBC 2105A.4] \_\_\_\_\_
2.   Wet saw \_\_\_\_\_
3.   Length change apparatus [C426] \_\_\_\_\_
4.   Cooling Chamber \_\_\_\_\_

**Measurement**

**Y N Equipment: [C140]**

5.   Steel scale to 1/10" \_\_\_\_\_
6.   Calipers \_\_\_\_\_
7.   Cube molds and tampers [C109/30] \_\_\_\_\_

**Oven:**

8.   Oven of sufficient size [C1093/4] \_\_\_\_\_
9.   Ventilated oven controlled to 100° to 115°C? \_\_\_\_\_

**Compression Testing Machine**

**Y N Machine Information: [C39]**

8.   Maker: \_\_\_\_\_ Identification Number: \_\_\_\_\_ Capacity: \_\_\_\_\_ /K

**Y N Calibration Information: [E4/12]**

9.   Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_ By: \_\_\_\_\_

**Y N Bearing Blocks:**

10.   Spherically seated block Upper:  Lower:
11.   Blocks plane to 0.001" in 6" Upper:  Lower:
12.   Bearing face at least 6" in diameter? \_\_\_\_\_

**Y N Bearing Plates: [C140]**

13.   Single thickness plate \_\_\_\_\_
14.   Adequate thickness \_\_\_\_\_
15.   ¼" greater than the specimen plate dimensions \_\_\_\_\_
16.   Plane to 0.001" in 6" \_\_\_\_\_

**Y N Capping Plates: [C1552]**

17.   Plate made of steel \_\_\_\_\_
18.   Thickness not less than 1" \_\_\_\_\_
19.   Capping surface level within 1/16" \_\_\_\_\_
20.   Plane to .003" in 16" \_\_\_\_\_

**Y N Casting Plates: [C1552]**

21.   Made of transparent glass \_\_\_\_\_
22.   Thickness not less than ½" \_\_\_\_\_
23.   Plane to .003" in 16" \_\_\_\_\_

#### 5. STEEL / WELDING

**Y N Field Equipment**

1.   Bolt tension calibrator \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
2.   200 to 600 ft. / lb. torque wrench [E2428/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
3.   4 to 1 multiplier \_\_\_\_\_

LEA # \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

- 4.   Assortment of high impact sockets \_\_\_\_\_
- 5.   Thickness gauges \_\_\_\_\_
- 6.   Rockwell hardness [E18/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 7.   Brinell hardness [E10/12] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 8.   Fillet weld test gauge \_\_\_\_\_
- 9.   Impact [E23/12] \_\_\_\_\_
- 10.   Dye penetrant test equipment [E165] \_\_\_\_\_
- 11.   Magnetic particle test equipment [E709/6] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 12.   Ultrasonic test equipment [E164] \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_
- 13.   Radiographic test equipment \_\_\_\_\_
- 14.   DC volt / ammeters \_\_\_\_\_ calib. by: \_\_\_\_\_   
Calibration / Verification Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

**6. REQUIRED REFERENCE MATERIAL**

**Y N Codes and Standards**

- California Administrative Code (CAC); Title 24, Part 1
- 1.   2007 CAC \_\_\_\_\_
- 2010 CAC \_\_\_\_\_
- California Building Code (CBC); Title 24, Part 2 – Volumes 1 and 2
- 2.   2007 CBC \_\_\_\_\_
- 2010 CBC \_\_\_\_\_
- American Concrete Institute (ACI)
- 3.   318-08 \_\_\_\_\_
- 4.   530-08 \_\_\_\_\_
- American Institute of Steel Construction (AISC)
- 5.   341-05 \_\_\_\_\_
- 6.   360-05 \_\_\_\_\_
- American Welding Society (AWS)
- 7.   Structural Welding Code –Steel D1.1-06 \_\_\_\_\_
- 8.   Structural Welding Code –Sheet Steel D1.3 \_\_\_\_\_
- 9.   Structural Welding Code –Reinforcing D1.4-05 \_\_\_\_\_
- American Society for Nondestructive Testing (ASNT)
- 10.   CP-189-2001 \_\_\_\_\_
- 11.   Written Practice for Nondestructive Testing \_\_\_\_\_
- Annual Book of ASTM Standards:
- 12.   Volume 01.04 Steel; Structural and Reinforcing \_\_\_\_\_ year: \_\_\_\_\_
- 13.   Volume 03.03 Nondestructive Testing \_\_\_\_\_ year: \_\_\_\_\_
- 14.   Volume 04.01 Cement, Lime, and Gypsum \_\_\_\_\_ year: \_\_\_\_\_
- 15.   Volume 04.02 Concrete and Aggregates \_\_\_\_\_ year: \_\_\_\_\_
- 16.   Volume 04.03 Road and Paving Materials \_\_\_\_\_ year: \_\_\_\_\_
- 17.   Volume 04.05 Mortars, Grouts, and Masonry \_\_\_\_\_ year: \_\_\_\_\_
- 18.   Volume 04.08 Soil and Rock \_\_\_\_\_ year: \_\_\_\_\_

LEA # \_\_\_\_\_ Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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I, \_\_\_\_\_, acknowledge the deficiencies specified in this  
PRINT NAME OF OFFICIAL  
report and agree to send a written response and/or evidence of corrections (e.g. receipts,  
photographs...) to the Division of the State Architect (DSA) headquarters office within  
approximately 30 days.

Signature of Laboratory Official: \_\_\_\_\_

LEA Number: \_\_\_\_\_

DSA Representative: \_\_\_\_\_

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