



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]

Definition of acronyms referenced in this document:

ASTMI (American Standards Testing and Material International)

AMRL (American Materials Reference Laboratory)

AASHTO (American Association of State Highway and Transportation Officials)

PSP (Proficiency Sample Program)

CCRL (Cement and Concrete Reference Laboratory)

GPR (Ground Penetrating Radar)

**Corrective
Action
Required**

1. SOILS AND AGGREGATE

Y N Evaluation Records [D3740]

1. AMRL Participation #: _____ SOIL AGG. A/C METALS
 Last assessment: _____
2. PSP Participation #: _____ SOIL AGG. A/C METALS
 Last sample report: _____

Y N Equipment

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

2. REINFORCING STEEL

Y N Equipment [A370]

1. Grips and shims _____
2. Bend fixture and pins _____
3. Extensometer for cable testing _____
4. Grip apparatus for bolt testing _____
5. Bend test apparatus for weld coupons _____
6. Measuring tools for area and elongation _____

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 _____

LEA # _____ Date _____

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 _____
22. Plate with recess requires ½" of plate below _____
23. Recess in plate ½" 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 planeness 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: _____

LEA # _____ Date _____

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: _____

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]

10. Maker: _____ Identification Number: _____ Capacity: _____ /K

Y N Calibration Information: [E4/12]

11. Calibration / Verification Date: _____ By: _____

Y N Bearing Blocks

12. Spherically seated block Upper: Lower:

13. Blocks plane to 0.001" in 6" Upper: Lower:

14. Bearing face at least 6" in diameter? _____

Y N Bearing Plates [C140]

15. Single thickness plate _____

16. Adequate thickness _____

17. ¼" greater than the specimen plate dimensions _____

18. Plane to 0.001" in 6" _____

Y N Capping Plates [C1552]

19. Plate made of steel _____

20. Thickness not less than 1" _____

21. Capping surface level within 1/16" _____

22. Plane to .003" in 16" _____

Y N Casting Plates: [C1552]

23. Made of transparent glass _____

LEA # _____ Date _____

24. Thickness not less than 1/2" _____
25. 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 _____
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: _____

LEA # _____ Date _____

- 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: _____

I, _____, acknowledge the deficiencies specified in this 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: _____