Supplemental Plan Check Corrections Sheet for Structural Design - General (2011 LABC)

Plan Check / PCIS Application #: ____________________________

Job Address ______________________________________________

P.C. Engineer _____________________________ (E-mail: firstname.lastname@lacity.org) ___________________________________________

Phone __________________________

For instruction and other information, read the master plan check correction sheet attached.

Supplemental Correction sheets attached (comply with corrections as marked):

- Curtain walls
- Storage racks
- Wood Construction
- Flexible Diaphragm
- Steel Frame Design including Moment Frame
- Steel Frames
- Light Gauge Steel Construction
- Masonry Shear Walls
- Concrete Shear Wall
- Concrete special moment resisting frame
- Prestress concrete
- Two Way concrete slab
- Concrete Prestress
- Concrete Tilt Up retrofit (Chapter 91)
- URM retrofit
- Reinforced concrete and frame with masonry infills - Chapter 95

Obtain the following Information Bulletins, Affidavits or forms from our web site: www.ladbs.org

- P/GI 2008-018 Computer Software Program Solutions
- P/GI 2008-002 Retaining wall (4’0 high or less)
- P/B 2008-007 Cutting, Notching and Boring of wood members
- P/B 2008-010 Lumber species and Grade in wood shear walls
- P/B 2008-015 Power driven steel studs in concrete
- P/B 2008-024 Structural Observation
- P/B 2008-030 Interconnection ties for pile caps and caissons
- P/B 2008-031 Concrete Proportioning & Admixture Qualification
- P/B 2008-032 Fabricators of High Strength Structural Steel
- P/B 2008-034 Registered Deputy Inspector
- P/B 2008-036 Fabrication tolerances for built-up steel
- P/B 2008-046 Composite steel concrete construction
- P/B 2008-047 Footings on expansive soils
- P/B 2008-051 Wet mix shotcrete
- P/B 2008-062 Concrete quality and mix designs
- P/B 2008-071 Wall anchors to flexible diaphragms design criteria
- P/B 2008-083 Retaining wall design
- P/B 2008-089 Steel Moment Frame connections
- P/B 2008-093 Interim policy on manufactured narrow shear panels
- P/B 2008-098 Use of slab on grade as foundations
- P/B 2008-116 Footing design for expansive soils
- P/B 2008-096 Fabrication tolerances for built-up steel

A. GENERAL PLANS

1. A supplemental plan check and permit with the applicable fees are required for deferred items. Allow time for a normal plan check process. The engineer of record shall review the design of the deferred item(s) and verify conformance with the intent of the original design.
   a. Prefabricated stairs including handrails
   b. Prefabricated roof and floor trusses
   c. Curtain Walls
   d. Storage racks

2. Identify and reference all sections and details as to their location on the plan and elevation views.

3. Cross reference all calculations for joists, beams, shear walls, etc, to framing / floor plans.

4. Submit structural calculations / design details for ( )

5. Provide plans for temporary shoring of excavations that remove the lateral support from a public way or an existing building. Excavations adjacent to a public way require Public Works approval prior to issuance of building permit.

6. A grading bond is required to be posted for projects involving over 250 cubic yards of soil in “Hillside Grading Areas. (7006.5.1)
B. MATERIAL SPECIFICATION & INSPECTIONS

1. Specify the following items on plans:
   a. Type of soil and bearing value per Table 1806.2.
   b. Standard 2500 psi concrete.
   c. 3000psi min. for grade beams and piles / piers. (1808.8.1)
   d. Type and f’m of masonry units. Proportions of mortar and grout mixes.
   e. Type of Structural steel, Structural Pipe, Tubing; Reinforcing bars.
   f. Grade, species, and moisture content of all lumber. Type and grade of plywood sheathing.
   g. The size, LA research report # and manufacturer of the shot pins. Show on plans, the maximum spacing of the shot pins in bearing/nonbearing walls

2. For metal deck, specify manufacturer, product name, and LA research report number on plans: Specify on plans and calculations the deck designatian of which tables were used to determine the allowable loads. Provide complete welding information on plans.

3. Structural Observation per Section 1710 is required for this project. The engineer of record shall prepare an inspection program, including the name(s) of the individuals or firms who will perform the work. The inspection program shall be shown on the first sheet of the structural plans.

4. (Continuous Special Inspection) (Periodic Special Inspection) is required for (______________) per Sec 1704 and Tables 1704.3 (steel), 1704.4 (concrete), 1704.5.1 & 1704.5.3 (masonry), 1704.7 (soils), 1704.8 (Driven deep foundations), 1704.9 (Cast-in place deep foundations) and 1704.6.1 (high load wood diaphragm)

5. Where special inspection or testing is required, the registered design professional in responsible charge shall include a “Statement of Special Inspections” on the plans. (1705)

6. The following structural products shall comply with an approved Los Angeles City Research Report. Copy the conditions of approval onto the plans and show compliance with those conditions.
   - Holdowns
   - Retrofit anchor bolts
   - Foundation Anchors
   - Truss connection plates
   - Narrow Shear Wall Panels
   - Framing clips
   - Straps
   - Others such as _______________________

Add note on plans:
1. Contractors responsible for the construction of a wind or seismic force resisting system/component listed in the “Statement of Special Inspection” shall submit a written statement of responsibility to the LADBS Inspectors and the owner prior to the commencement of work on such system or component per Sec 1709.1

2. Continuous Special Inspection by a registered deputy inspector is required for field welding, concrete strength f’c> 2500 psi, high strength bolting, sprayed-on fireproofing, engineered masonry, high-lift grouting, pre-stressed concrete, high load diaphragms and special moment-resisting concrete frames. (1704 & Chapters 19, 21, and 22)

3. Foundation sills shall be naturally durable or preservative-treated wood. (2304.11.2.4)

4. Field Welding to be done by welders certified by the LADBS for (structural steel)(reinforcing steel)(light gauge steel). Continuous inspection by a deputy inspector is required.

5. Shop welds must be performed in a LADBS licenced fabricator’s shop.

6. LADBS licensed fabricator is required for (Trusses), (Structural Steel) ....

7. Glue lam beams must be fabricated in a LADBS licenced shop. Identify grade symbol and lamination species per T 5-A, 2005 NDS Supp.

8. Provide lead hole 40%-70% of threaded shank dia. and full dia. for smooth shank portion.” 2005NDS

9. Periodic Special Inspection is required for wood shear walls, shear panels, and diaphragms, including nailing, bolting, anchoring, and other fastening to components of the seismic force resisting system. Special inspection by a deputy inspector is required where the fastener spacing of the sheathing is 4 inches on center or less. (1707.3)
10. Special Activity inspection is required for (buildings over 5 stories or 60' in height) (buildings over 50,000 sq ft of ground floor area) (buildings over 200,000 sq ft of floor area) (1704.21)

11. A copy of the Los Angeles Research Report and/or conditions of listing shall be made available at the job site.

C. FOUNDATION AND GRADING

1. Add details to show compliance with all corrections on enclosed Grading Pre-inspection Report and see supplemental grading correction sheet for additional comments.

2. All foundations shall be designed for expansive soil conditions unless a soil report is provided and approved by LADBS Grading Division (see information bulletin for more information). Provide details on foundation plans to comply with the requirements.

3. Call out minimum thickness of 3½ inch concrete slab on grade, reinforcement, and 6-mil moisture barrier on foundation plan. 1910.1

4. Detail (and reference location on foundation plan) typical foundation sections for: perimeter walls, interior bearing walls, depressed slabs, foundation common to dwelling and garage, garage entrance, spread and/or post pads.

5. Concrete grade beams that are part of a Special Moment Frame shall use A706 reinforcing steel. Transverse reinforcement shall be provided over a length equal to twice the member depth measured from the face of the supporting member. The spacing of such reinforcement shall not exceed: (a) d/4, (b) 8 times the diameter of the smallest longitudinal bar, c) 24 times the hoop bar diameter, or (d) 12 inches. The remainder of the grade beam shall have transverse reinforcement spaced not more than d/2. (ACI 21.1.5.2, 21.5.3)

5a. Concrete grade beams shall be constructed with minimum f’c=3000 psi. (LADBS memo dated 08/20/1992)

6. Foundations with stem walls shall be reinforced with a minimum of two No. 4 bar at the top of the wall and two No. 4 bar at the bottom of the footing. 1908.1.8

7. Slabs-on-grade with turn-down footings shall be reinforced with a minimum of one No. 4 bar at the top and one No. 4 bar at the bottom. 1908.1.15, ACI 318 Section 22.10

8. Provide details for stepped footings when slope of top and/or bottom of footing exceeds 1 :10. Top surface of the stepped footing shall be level. (1809.3)

9. Detail a footing setback of H/3 to the face of slope or as required by the approved soil report. (1808.7.2; Fig 1808.7.1)

10. Provide an ascending slope clearance to building of H/2 or 15° max. (1808.7.1, Fig 1808.7.1)

11. Provide pile ties: Individual pile caps and caissons subject to seismic forces shall be interconnected by ties in two directions. Ties shall be capable of resisting, in tension or compression, a minimum horizontal force equal to 10% of the larger column load.

12. Earthquake Induced Liquefaction/Landslide Area: A geotechnical report is required to evaluate the potential for soil liquefaction and soil strength loss during earthquake. (1803.5.11)

13. Site drainage: Show on plans how concentrated drainage is being conveyed to the street via non-erosive devices. (7013.10)

14. Socketed drilled shafts depth shall be sufficient to develop the full load bearing capacity with a min. factor safety of two. (1810.3.9.6)

15. In seismic design category D, E and F, Deep foundation reinforcement shall meet the minimum requirements. (1810)
16. If structural steel core is used, socketed drilled shafts shall meet with the requirement per Sec. 1810.3.9.6.

**Add note on plans:**
1. If adverse soil conditions are encountered, a soils investigation report may be required. (1803.5.2)

**D. VERTICAL LOADS**

1. Floor live load must include a 15 psf partition, in addition to other loads per LABC1607.5.

2. Exit facilities must be designed for a 100 psf live load per Table 1607.1.

3. Floors supporting vehicles not exceeding 9 passengers shall be designed for both a live load of 40 psf or a 3,000 lb concentrated load acting on a 4.5 inch by 4.5 inch area, which ever produces the greater load effect per LABC Table 1607.1.

4. The uniform (concentrated, special) loads must be used in accordance with LABC Table 1607.1.

5. Ceiling joists shall be designed for (          ) live load per LABC Table 1607.1. Attic without storage and less than 42 inches of headroom may be designed for 10psf live load.

6. Suspended ceilings in exit facilities serving more than 30 occupants shall be designed per 1613.8.1.4 - Provide Details.

7. The live loads used in the design of buildings and other structures shall be the maximum loads expected by the intended use or occupancy but shall in no case be less than the minimum uniformly distributed unit loads required by LABC Table 1607.1.

8. Submit structural calculations and plans including truss profiles, member sizes and connection details for all roof and floor trusses prior to issuance of the building permit. Provide LARR # for________________

9. The Engineer or Architect of record, shall review and approve truss design for loads, location, and suitability for intended use.

**E. LATERAL LOADS**

1. Provide analysis and design for wind loads per LABC 1609. The following information shall be shown on plans per Section 1603.1.4: 1) Basic wind speed ; 2) Wind Importance factor, I; 3) Wind exposure; 4) Applicable internal pressure coefficient; 5) Components and cladding design wind pressure.

2. Earthquake design data - The following information related to seismic loads shall be shown on plan per LABC 1603.1.5
   a. Seismic importance factor, I , and occupancy category.
   b. Mapped spectral response accelerations, Ss and S1.
   c. Site class.
   d. Spectral response coefficients, SDS and SD1.
   e. Seismic design category.
   f. Basic seismic-force-resisting system(s).
   g. Design base shear. Total weight of building.
   h. Seismic response coefficient(s), Cs.
   i. Response modification factor(s), R.
   j. Analysis procedure used.
   k. Redundancy factor used.
   l. The design load bearing value of soils (1603.1.6)

3. Seismic Design Category (SDC) shall be based on LABC Table 1613.5.6(1) and Table 1613.5.6(2). When S1, is greater than or equal to 0.75, the building shall be assigned to SDC E for Occupancy Category I, II, or III and assigned to SDC F for Occupancy Category IV.
4. The value of the response modification coefficient, \( R \), used for design at any story shall not exceed the lowest value of \( R \) that is used in the same direction at any story above that story. \( \text{(ASCE 12.2.3.1.)} \)

5. Where a combination of different structural systems is utilized to resist lateral forces in the same direction, the value of \( R \) used for design in that direction shall not be greater than the least value of \( R \) for any of the systems utilized in that direction. \( \text{ASCE 12.2.3.2} \)

6. Provide calculations and details to show that collector elements, splices, and connections to resisting elements have the strength to resist the combined loads resulting from the special seismic load of ASCE 7-05 Section 12.14.7.3 and 12.14.3.2.2.

7. Calculate seismic drift based on deflections of each level with \( C_d \) and \( I \) factors using strength level forces in accordance with Section ASCE 12.8.6.

8. Provide separation from property line or adjacent building(s) of not less than the building drift in accordance with Section 1613.6.7.

9. Cantilever columns used as part of the SFRS, shall comply with the following:
   a. Maximum axial stress of 15% of allowable
   b. Columns designed as OMF’s, IMF’s and SMF’s shall use \( R, C_d \) & \( \Omega_o \) factors as per Section G of Table 12.2-1 of ASCE 7. All limitations contained in the table shall be complied with except that OMF’s may be used in SDC D subject to the limitations in footnotes h and i.
   c. The lowest \( R \) value shall be used in the same direction unless the building is an occupancy category I or II building that does not exceed 2 stories in height and light frame construction or flexible diaphragms are used.
   d. Columns designed as SMF’s shall comply with the requirements of Table I-8-1 of AICS 341.
   e. Steel tube and pipe columns shall be designed as OMF’s only.

10. Foundations designed to support cantilevered columns used as part of the SFRS shall comply with the following:
    a. Foundations shall have the strength to resist the load combinations with over strength factor of Section 12.4.3.2 of AISC 7.
    b. Grade beams shall be designed in accordance with the following requirements of ACI 318:
        i. Section 11.5 for OMF’s 21.2.2 for OMF’s
        ii. Section 21.12.4.2 for IMF’s 21.3.4.2 for IMF’s
        iii. Section 21.3.3 or 21.4.4 for SMF’s 21.5.3 or 21.6.4 for SMF’s

11. Provide justification that the proposed cantilever column/grade beam connection detail is fixed as assumed in your design.

12. Submit structural calculations and connection details for the structural members that provide support for the seismic forces generated by elevators. The seismic forces must be determined in accordance with ASCE 13.3. The calculations and details provided must show the complete load path from the rail supports to the building’s lateral-force-resisting system. \( \text{ASCE 12.10 and LABC 1607.8.1} \).

**F. HORIZONTAL DIAPHRAGM**

1. Provide a diaphragm analysis to show diaphragm adequacy per ASCE 12.10
2. Provide calculations and details on the plans for the sub-diaphragm and continuous cross-tie system required for all wood diaphragms providing lateral support to masonry or concrete walls. The spacing of continuous ties shall not exceed 40 ft per LABC1616.4.
3. Provide details, properly referenced, of the anchorage system between the wood roof and floor diaphragms and the concrete or masonry walls. See LABC1616.4.

**G. CONCRETE AND MASONRY**

1. Provide a vertical and longitudinal section through each glass block wall showing how it is supported at each edge and reinforced in each direction. Submit lateral calculations. \( \text{(2110)} \)
a. Glass-block standard unit panels in exterior walls shall not exceed 144 sq. ft. when the design wind pressure is 20-psf. Interior standard unit panels shall not exceed 250 square feet. The maximum panel dimension between supports shall be 25-ft in width and 20-ft in height for exterior and interior panels.

b. Every glass-block panel shall be provided with a min. 3/8 - inch expansion joints at the side and top. Expansion joints shall be entirely free of mortar and shall be filled with resilient material. Provide a detail on the plans.

c. Lateral support shall be provided by panel anchors spaced not more than 16" o.c. or by channel-type restraints.

2. Structural calculations and details are required for anchored masonry or stone veneer that extends more than 5 ft. above the first floor.

3. The masonry or concrete walls below grade may be designed to span simply supported between slabs. NOTE ON THE PLANS: "The perimeter walls are not to be backfilled until the floor slabs are poured and cured."

4. For concrete columns that are not part of the lateral-force-resisting system, provide transverse reinforcement in accordance with Sections ACI 318 Section 21.2.1.4 and ACI 318 Section 21.11.2.2.

Consequences of failure of structural and nonstructural members that are not a part of the seismic-force-resisting system shall be considered. Section 21.1.2.2.

H. WOOD DESIGN

1. Structural framing not using Conventional Light-Frame Construction Provisions of Section 2308 requires the plans and calculations to be signed and sealed by an architect or civil/structural engineer licensed in the State of California.

2. Cross reference all calculations for joists, beams, shear walls, etc, to framing / floor plans.

3. Show the size, spacing and direction for the (rafters), (ceiling joists) (floor joists) on plans.

4. The size of ridge board, valley or hip members shall not be less than the cut end depth of the rafter.

5. Provide designed ridge beams (4 x min.) for open beam vaulted ceilings when ceiling joists or rafter ties are not provided.

6. Ridge / hip / valley members shall be designed as vertical load carrying members when roof slope is less than 3 :12. Provide calculations.

7. Show blocking at ends of rafters and trusses at exterior walls, and at supports of floor joists.

8. The _______"x ________" floor girder / beam under __________ exceeds the allowable stress for grade, (T-4A, 05' N.D.S. Supplement)

9. Specify the header size at door, window and other openings over 4 ft. wide in bearing walls.

10. Detail is required for header support at the corner windows (see marked plans)

11. Use full height studs (balloon frame) on exterior walls of rooms with vaulted ceiling. Specify size, spacing and maximum allowable span of the full height stud.

12. For plywood roofs and floors, specify panel index no. __________, plywood thickness, grades, nailing schedule and panel layout pattern.
13. Three- and four-story wood structures require 3x4 or 2x6 studs at 16" o.c. max. in bearing partitions below the top two stories. Submit calculations showing that allowable stress in compression perpendicular to grain is not exceeded in the sill plates at the proposed stud spacing. *(T-4A, 05' N.D.S. Supplement)*

14. Provide a diaphragm analysis to show diaphragm adequacy. *(Sect. 4.2 of SDPW)*

15. Lumber and structural wood panel diaphragms shall not be considered as transmitting lateral forces by rotation except one story, attached or detached residential garages or similar non habitable wood structures provided the diaphragm is not constructed of straight sheathing. *(Sect. 4.2.5 of SDPW)*

16. For connections exposed to weather multiply other allowable fasteners loads per T 10.3.3, '05 NDS:
   a. Bolts x .80
   b. Lateral nails loads x .70
   c. Screw withdrawal loads x .70

17. Fasteners in preservative treated wood or fire retardant treated wood shall be of hot dipped zinc coated galvanized steel or stainless steel.

18. For wood to wood connections, where there are over 3 bolts in a row, reduce the allowable bolt loads per T 10.3.6, '05 NDS.

19. If required by structural calculations, show size, location and embedment length of all anchor bolts (including HD bolt anchors) on foundation plan.

20. When bolting to an existing footing, provide a copy of the Research Report Approval for the type of bolt, allowable design loads and required edge distances. Deputy inspection is generally required.

21. Specify the size, LARR number and manufacturer of the shot pins. The max. spacing of shot pin in bearing on nonbearing wall is __________ / __________ Respectively indicated on plans.

22. Decks attached to the structure without the use of toenails or nails in withdrawal. *(1604.8.3)*

I. **SHEAR WALLS**

1. Provide a shear wall schedule on the plans and specify the maximum design shear load for each shear wall type. Limit the design shear wall loads to those allowed by Code. Clearly indicate on the plans all plywood and drywall shear walls.

2. The __________ shear wall is inadequate to resist lateral / uplift forces. Show roof floor diaphragm nailing, wall bracing, shear connections, tie down hardware and hold-down anchors. Submit lateral design.

3. Provide shear connection details, properly referenced, at the top and bottom of all shear walls.

4. The horizontal distribution of seismic shear to wood structural panel shear walls shall be in accordance to ASCE 7-05 Section 12.3.1. *(2305.1.1)*

5. Provide LARR number for screws used in steel sheets or cold-formed steel framed walls sheathed with wood structural panels. Shear values for steel sheets or cold-formed steel framed walls sheathed with wood structural panels shall conform with the requirements in AISI-Lateral C2.2.1 and C2.2, respectively. Allowable values shall be in conformance with Table C2.1-3, taking in to account the corresponding reductions per C2.1 (AISI-Lateral)

6. Wood structural panel shear walls shall meet the story drift limitation of ASCE 7.05 Section 12.12.1 Conformance shall be determined by testing or calculations. Calculated deflection shall be determined according to EQ. 4.3-1 of SDPWS. *(2305.3.2)*

7. Using the gypsum board, gypsum lath, and cement plaster shear walls shall USE Response Modification Coefficient R=2. *(ASCE Table12.2-1)*
8. Stucco shear walls shall utilize furring, galvanized nails (having a minimum 11 ga., 1-1/2" long, 7/16" diameter head, and furred out a min of 1/4") to attach the lath to the studs. Staples shall not be used. *(T25-I)*

9. The maximum allowable shear for three-ply plywood resisting seismic loads is 200 plf. *(2306.3)*

10. Limit the height-width ratio of the plywood (wood structural panels) shear walls, perforated shear wall segments, perforated shear walls and shear wall piers to 2:1. (See Table 4.3.4SDPWs, footnote 1 for exceptions). Provide complete calculations (including deflection) and details for shear wall with openings. *(T 4.3.4 SDPWs-2008)*

11. The following applies to all shear walls with a shear value greater than 350 plf. These walls shall be clearly identified on the plans and provide with the followings: *(Table 2306.3(2) footnote i)*
   a. 3x sill plates.
   b. 3 x studs and blocks between adjacent panels.
   c. 1/2" edge distance for plywood boundary nailing.
   d. All panel joint and sill plate nailing shall be staggered.

12. Provide calculations and details for drag strut connections to shear walls. See checked plans.

13. Provide the design for the shear transfer from the roof diaphragm or upper shear wall to the shear wall below the floor or roof. Detail nails, bolts, shear plates, sill plates, and blocking as required by design. Use reduced values for nails with reduced embedment.

14. Provide referenced calculations showing the overturning moments in the shear wall segments.

15. Structural calculations and details are required for anchored masonry or stone veneer that extends above the basement for Seismic design category E & F. For Seismic Design Category D Structural calculations and details are required for anchored masonry or stone veneer that extends above the first floor.

16. Anchors shall be designed to be governed by tensile or shear strength of a ductile steel element (D.3.3.4), or the attachment that the anchor is connecting to the structure shall be designed so that the attachment will undergo ductile yielding at a force level corresponding to anchor forces no greater than the design strength of anchors specified in D.3.3.3. *(1908.1.9, ACI 318 Appendix D, D.3.3.5)*

17. Provisions under Section 1911 and Table 1911.2 do not apply to anchors installed in hardened concrete or is subject to earthquake loads *(1911.1)*. Justify the capacity of tie down bolt in concrete footing/wall/deck per ACI 318 Appendix D with factored design loads.

18. Provide LARR number for hold-down connectors. The capacity of hold-down connectors that do not consider cyclic loading of the product shall be reduced to 75% of the allowable earthquake load values. *(2305.5)*

19. Hold down straps - Include the following in design and detailing between floors:
   a. Design and detail straps installation when used as hold downs across floor joists. Account for reduced number of nails across joist.
   b. Determine the allowable load based on the number of nails thru the strap into the posts above and below the "Dead Space" between floors. Specify # of nails required.
   c. Design and detail straps so that the minimum nail spacing will be provided when the strap nailing is combined with the shear wall edge nailing (i.e. provide 4x member wherever a strap and shear wall edge nailing occur or detail strap nailed over and thru unnailed plywood--show nailing pattern on plan).

**Add note on plans:**

1. Hold-down connector bolts into wood framing require approved plate washers; and hold-downs shall be finger tight and 1/2 wrench turn just prior to covering the wall framing. Connector bolts into wood framing require steel plate washers in accordance with Table 2305.5 of the LA Building Code. *(2305.5)*

2. Roof diaphragm nailing to be inspected before covering*. Face grain of plywood shall be Perpendicular to supports. Floor shall have tongue and groove or blocked panel edges. Plywood spans shall conform with Table 2304.7.

3. All diaphragm and shear wall nailing shall utilize common nails or galvanized box.

*Add note on plans:*
4. All bolt holes shall be drilled 1/32 to 1/16” oversized. (11.1.2.2, ’05 NDS)

5. Hold-down hardware must be secured in place prior to foundation inspection.

J. RETAINING WALLS DESIGN

1. Calculations and details are required for retaining walls over 4 feet in height, measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or sloping earth. 101.5

2. Provide a safety factor of (1.5)(1.1) to resist (sliding), (overturning) for design of retaining wall. 1605.1.1, 1807.2.3
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