



WALL PLAN CHECKLIST

PROJECT NAME: _____

LDP: _____

DATE REVIEWED: _____ REVIEWED BY: _____

Please address all items marked with an "X" below, as well as any additional comments on this checklist or on the redlined plans. Please return this checklist and the redlined plans when resubmitting in order to speed up the revised plan review.

GENERAL INFORMATION:

1. _____ Seal and signature of registered professional engineer on all sheets. (two sets and PDF of approved plans.
2. _____ Topographic map with all elevations referenced to mean sea level and a contour interval equal to two (2) feet and all finish contours.
3. _____ Provide complete Design Calculations with the following minimum factor of safety, base sliding 1.5, Overturning 2.0, and Bearing Capacity 2.0 for all walls. Provide the additional FS as follows for MSE walls; sliding along reinforcing layers 1.5, reinforcement pullout 1.5, reinforcement tensile overstress 1.5, facing connection break/pullout 1.5, material uncertainty 1.5, deep seated failure (Bishop's Modified Method) 1.3, 2-part wedge translational failure (Spencer's Method) 1.3, 3-part wedge (Spencer's Method) 1.3, rapid draw down (Bishop's Modified Method) 1.1 , Minimum 0.7 Reinforcement Length/Wall Height Ratio, Manufacturer Design Programs are not acceptable for final design, must meet FHWA or NCMA methodology, can use MSEW 3.0, SRWALL 2.1, RESSA 2.0, GSLOPE, and PCSTABL6.
4. _____ Maximum grid spacing 24 inches.
5. _____ Provide wall batter angle.
6. _____ Provide a minimum 42" handrail (with mid rail) or fence on all walls over 30 inches in Height. Provide design calculations that meet 2018 IBC; Section 1607.7 (50-plf load). Complete Design Calculations or call out pre-engineered Sleeve-It System for foundation is required. Show minimum post type/size/spacing on plans. Wood post not acceptable for fence.
7. _____ Provide encroachment agreement for offsite work.

- 8. _____ Plan and profile of all pipes including grade, type of pipe, 25-year HGL, elevations, proposed cover, manholes and headwalls, outlet control structure.
- 9. _____ Provide 50-year HGL for live streams and drainage area larger than 20 acres.
- 10. _____ Provide detail for reinforced concrete load transfer structure around storm drainpipe through wall and show proper permanent erosion control for outlet.
- 11. _____ Storm drainpipe in wall backfill must be reinforced concrete pipe and minimum 18" in diameter.
- 12. _____ Wall must be constructed out of material with at minimum seventy-year life span.
- 13. _____ Note "walls shall be inspected by 3rd party engineer, at completion owner will provide the city with a letter of certification that walls have been built per plans and specifications".
- 14. _____ Provide one hard copy and PDF for initial review. Provide one hard copy and PDF for re review.
Provide two sets for final approval.
- 15. _____ Plan review fee: \$750.00
- 16. _____ Building permit fee: \$250.00
- 17. _____ Inspection fee: \$200.00

ADDITIONAL COMMENTS: _____

