

Forsyth County Department of Engineering

110 E. Main Street, Suite 120 | Cumming, Georgia 30040 | 770-781-2165 | forsythco.com

WALL PLAN CHECKLIST

Reviewed by:	Reviewer Contact:
Project Name:	
Submittal Number:	Date of Review:
	v, as well as any additional comments on this checklist or on the nce. Please return this checklist with annotated responses.
General Information:	
	design (UDC, overlay conditions, or other performance standards) portal. If you have any questions, contact David Jenkins,
2. Provide name of Developer and/or Owner with	their address and telephone number.
3. Add the following notes to each plan sheet:	
a. "All improvements to conform w latest edition."	ith Forsyth County Construction Standards and Specifications,
b. "Notify Forsyth County Inspecto 781-2165."	r 24-hours before the beginning phase of construction. (770)
4. Seal and signature of registered professional	engineer on all plan sheets.
5. Provide an encroachment agreement for any	work that will extend beyond the property line.
Plans:	
6. Provide a site plan that clearly depicts the loc	ation of the wall(s) on the site and the distance to buildings.
	nt of the wall reinforcement on the site plan. Reinforcement for it of Way shall not extend into the public Right of Way.
	t of the wall footing on the site plan. The footing for walls located not extend into the public Right of Way.
7. Provide a drainage plan that clearly depicts loand outlet control structures.	cations, sizes, and inverts of pipes, headwalls, manholes, inlets,
a. All RCP pipe penetrating MSE V	Valls shall have a GDOT standard headwall at the inlet and / or

8. Provide a grading plan that clearly depicts the location of the wall(s) on the site.
a. Grading plan shall show existing and proposed contours at 2' intervals (MSL) on each side of the wall(s).
b. Grading plan shall show top and bottom of wall elevations along the full length of the wall(s).
9. Provide wall cross sections for each wall with distance to building labeled.
a. Provide conveyance swale at top of wall(s) to capture runoff from upstream drainage areas and minimize drainage over top of wall. A note to direct water from top of wall(s) is not sufficient. Fo swales receiving water from offsite drainage areas, the swale shall be designed for the 100-yr storn event.
 b. Where MSE wall(s) are adjacent to standing water, stormwater ponds or streams, provide minimum2' deep stone from bottom of wall to 2' above the 100-year WSE.
c. For MSE wall(s), provide 100' water tight zone behind wall(s).
10. Provide wall profiles for each wall and label top and bottom of wall(s) at changes in elevation or slope.
a. All storm drainage adjacent to or penetrating the wall shall be designed to Forsyth County standards.
b. Show proper erosion control for outlet of pipes penetrating wall(s).
c. Provide 100-year WSE for wall(s) adjacent to standing water, stormwater ponds or streams.
d. For MSE wall(s), provide dimension between reinforcement layers. Maximum reinforcement spacing of 24 inches.
e. For MSE wall(s), label type of reinforcement and embedment depth. Provide minimum 0.70 reinforcement length / wall height ratio.
f. For MSE wall(s), indicate location of concrete load transfer structure where storm drainage penetrates wall(s).
Details:
11. Provide details for minimum 42" fence or handrail with mid-rails on all walls over 30" in height. References to handrail or fence by others are not sufficient.
a. Provide fence or handrail materials and dimensions of rail spacing for handrails.
b. Include post size, materials, spacing, and foundation / embedment detail unless Sleeve-It will be installed.
c. Wood materials are not acceptable for post, fence, or handrail.
12. Provide detail for concrete load transfer structure around storm drainage through wall(s).
13. Provide detail for splash pad or erosion control protection for pipes penetrating wall(s).
14. Provide details for retaining wall materials including block type, size, and weight.
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15. Provide	e waterstop detail and indicate waterstop locations for all CIP walls adjacent to standing water.
16. Walls n	nust be constructed out of material with a minimum seventy-year life span.
Calculations:	
17. Provide	complete design calculations with seal and signature of a registered Professional Engineer.
18. For all r	retaining walls, design calculations shall include the following minimum Factor of Safety.
	a. Base Sliding FS 1.5
	b. Overturning FS 2.0
	c. Bearing Capacity FS 2.0
19. For MS	E walls, design calculations shall include the following additional minimum Factor of Safety.
	a. Sliding along Reinforcing Layers FS 1.5
	b. Reinforcement Pullout FS 1.5
	c. Reinforcement Tensile Overstress FS 1.5
	d. Facing Connection Break / Pullout FS 1.5
	E walls, design calculations meeting FHWA or NCMA methodology and prepared using either version of or newer version of MSEW 3.0, SrWall 2.1, ReSSA 2.0, GSlope, or PCSTABLE6 shall include the
	g additional minimum Factor of Safety.
	a. Deep Seated Failure Analysis (Bishop) FS 1.3
	b. 2-Part Wedge Translational Failure Analysis (Spencer) FS 1.3
<u></u>	c. 3-Part Wedge (Spencer) FS 1.3
·	d. Rapid Drawdown (Bishiop) FS 1.1 – Provide for walls adjacent to standing water.
	e design calculations for handrail or fence in accordance with 2018 IBC Section 1607.8.1, with 50 plf load, designed as an MSE wall and Sleeve-It will be installed. In that case, identify use of Sleeve-It on plans.
Complete Applicat	ion:
A complete applicati	on will include the following:
One electron	ic conv (PDF) of the wall plans, wall calculations, and the checklist initialed by the submitter.

All wall plans to be submitted to Wallplans@forsythco.com.

Additional Comments:
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