



APPLY ONLINE AT WWW.CITYOFRUC.US/ONLINEPERMITCENTER

SUBMIT ELECTRONIC PLANS ■ TRACK STATUS ■ REQUEST INSPECTION

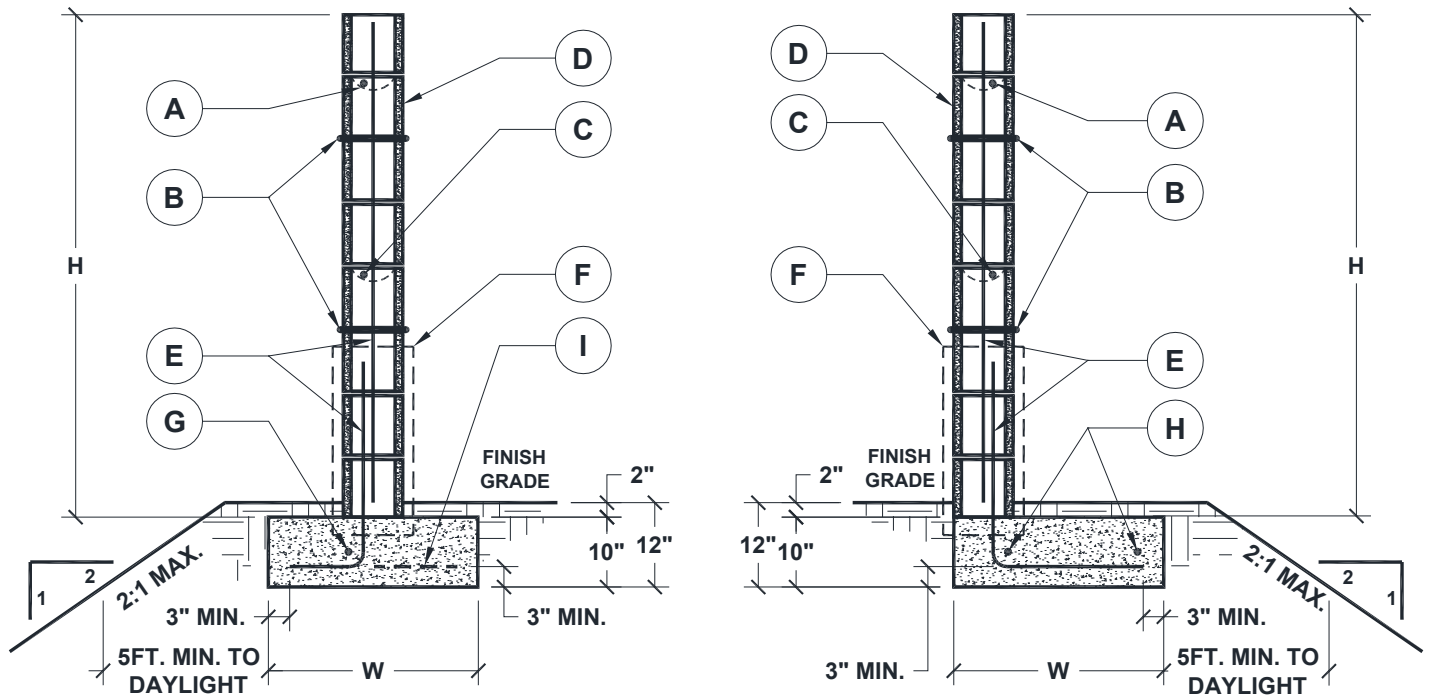
BLOCK WALL STANDARD

(CAN NOT BE USED FOR RETAINING WALL CONDITION)

“T” FOOTING OPTION A

“L” FOOTING OPTION B

NOT TO SCALE



BLOCK WALL LEGEND

- A. #4 horizontal rebar (bond beam block).
- B. Grout Stop Mesh.
- C. #4 horizontal rebar at 32" max O.C. (bond beam block).
- D. 6" or 8" block. See table below for rebar spacing.
- E. Locate rebar in center of block for – “T” & “L” Footing
- F. #4 vertical rebar. 24" minimum overlap.
- G. (1) #4 rebar continuous.
- H. (2) #4 rebar continuous.
- I. Reverse direction of hook on every other rebar

H WALL HEIGHT	OPTION A		OPTION B	
	VERTICAL REINFORCEMENT	W “T” FOOTING WIDTH	VERTICAL REINFORCEMENT	W “L” FOOTING WIDTH
3' 0" – 3' 11"	#4 @ 48" O.C.	17"	#4 @ 48" O.C.	19"
4' 0" – 4' 11"	#4 @ 48" O.C.	24"	#4 @ 48" O.C.	22"
5' 0" – 5' 11"	#4 @ 48" O.C.	26"	#4 @ 48" O.C.	29"
6' 0"	#4 @ 24" O.C.	30"	#4 @ 24" O.C.	34"



NOTES

1. Wall heights are regulated by the Planning Department. Consult with the Building Department before beginning construction.
2. For Walls higher than 6'-0", engineered details and calculations are required. Wall exceeding 3ft above adjacent grade require a building permit.
3. This design **DOES NOT** allow grade differentials of more than 6" on opposing sides of the walls. This standard **CANNOT** be used as a retaining wall.
4. No water course or natural drainage patterns shall be obstructed.
5. Grout **ONLY** the cells and bond beam courses containing rebar.
6. All Rebar lap splices to be 24" minimum.
7. Mortar protection (fins) inside cells must not protrude more than 1/2".
8. Rebar to be centered in masonry cells.

MATERIAL SPECIFICATION

- **All Rebar:** ASTM A615 Grade 40 Min.
- **All Masonry Units:** ASTM C-90, Grade N
- **Mortar:** 1,800 PSI Min., ASTM C 270, Type M or S.
- **Grout:** 2,000 PSI Min.
- **Concrete:** 2,500 PSI Min. at 28 days, ASTM C 150

DISCLAIMER

Alternate designs may be possible when provided with an engineered analysis. Use of this standard design is at the user's risk and carries no implied or inferred guarantee against failure or defects.

DESIGN PARAMETERS

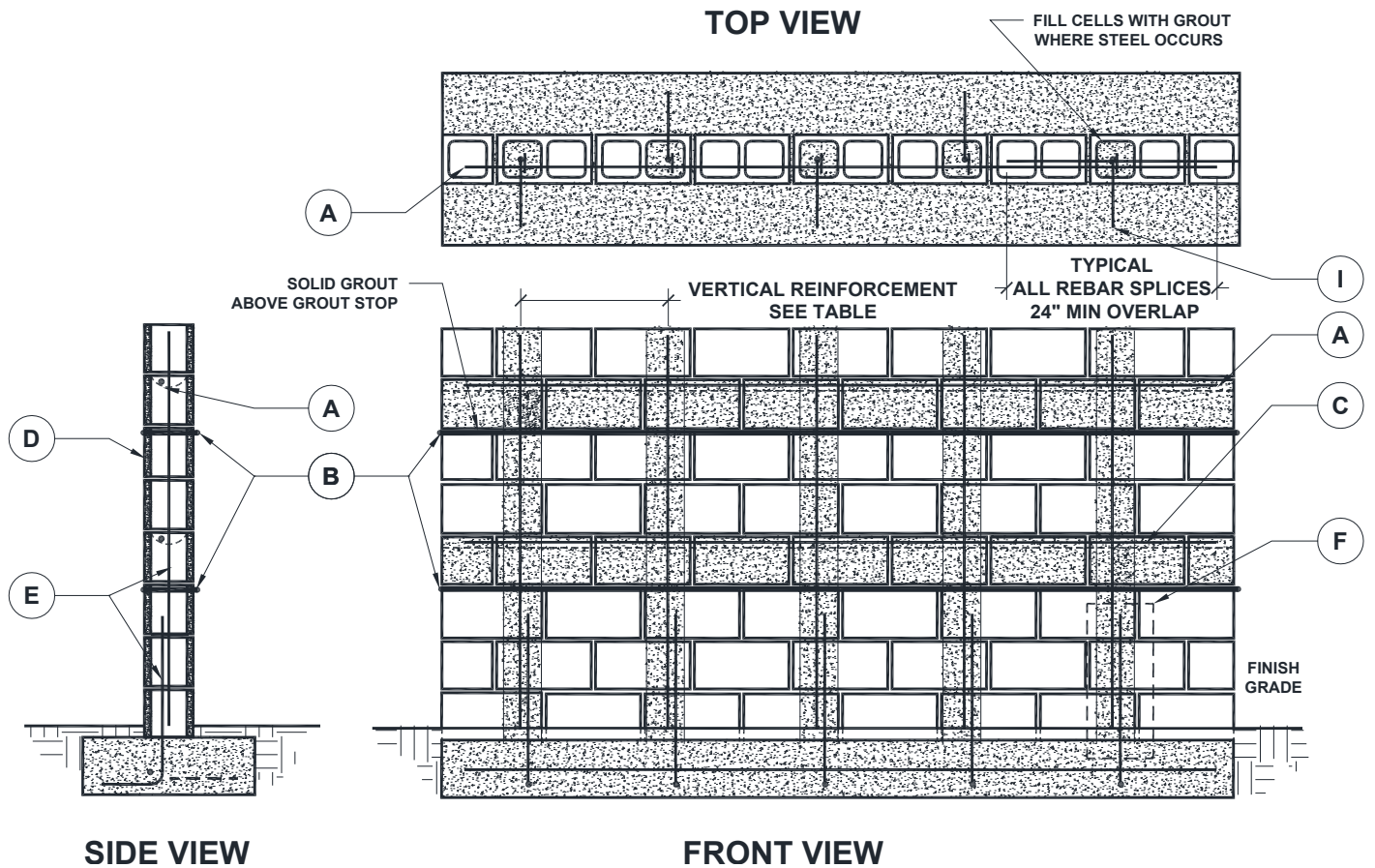
- **Active Soil Pressure:** 30 lbs./sq.ft.
 - **Passive Soil Bearing:** 150 lbs./sq.ft.
 - **Coefficient of Friction:** 0.25
 - **Allowable Soil Bearing:** 1500 lbs./sq.ft.
 - **Wind Speed:** 110 mph (ULT.)
 - **Exposure:** C
- Seismic Design:** Category 'E', Site Class 'D'

MANDATORY FIELD INSPECTION

1. **Footing:** Excavation trench shall be clean. Steel must be in place supported 3" above and away from the surrounding soil.
2. **Rebar/Pre-Grout:** Bond beam rebar and vertical rebar must be in place and inspected prior to grouting.
3. **Final:** After grouting, but prior to any decorative cap placement.



“T” FOOTING OPTION A

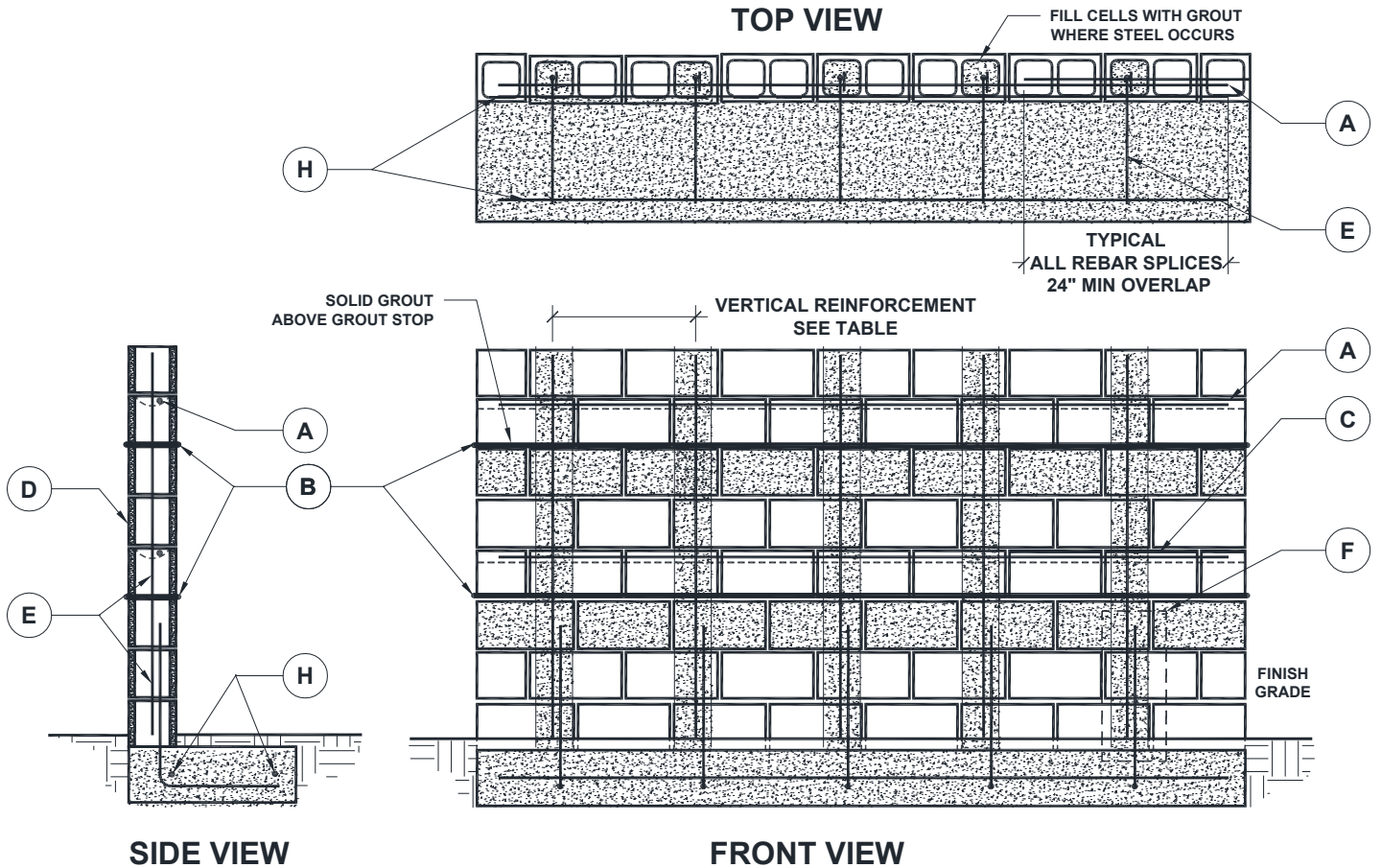


BLOCK WALL LEGEND

- | | |
|--|---|
| A. #4 horizontal rebar (bond beam block). | F. #4 vertical rebar. 24" minimum overlap. |
| B. Grout Stop Mesh. | G. (1) #4 rebar continuous. |
| C. #4 horizontal rebar at 32" max O.C. (bond beam block). | H. (2) #4 rebar continuous. |
| D. 6" or 8" block. See table below for rebar spacing. | I. Reverse direction of hook on every other rebar |
| E. Locate rebar in center of block for – “T” & “L” Footing | |



“L” FOOTING OPTION B



BLOCK WALL LEGEND

- | | |
|--|---|
| A. #4 horizontal rebar (bond beam block). | E. Locate rebar in center of block for – “T” & “L” Footing |
| B. Grout Stop Mesh. | F. #4 vertical rebar. 24” minimum overlap. |
| C. #4 horizontal rebar at 32” max O.C. (bond beam block). | G. (1) #4 rebar continuous. |
| D. 6” or 8” block. See table below for rebar spacing. | H. (2) #4 rebar continuous. |

Approved by:

Zack Neighbors
Signature

Zack Neighbors, CASp, CBO
Director of Building & Safety Services