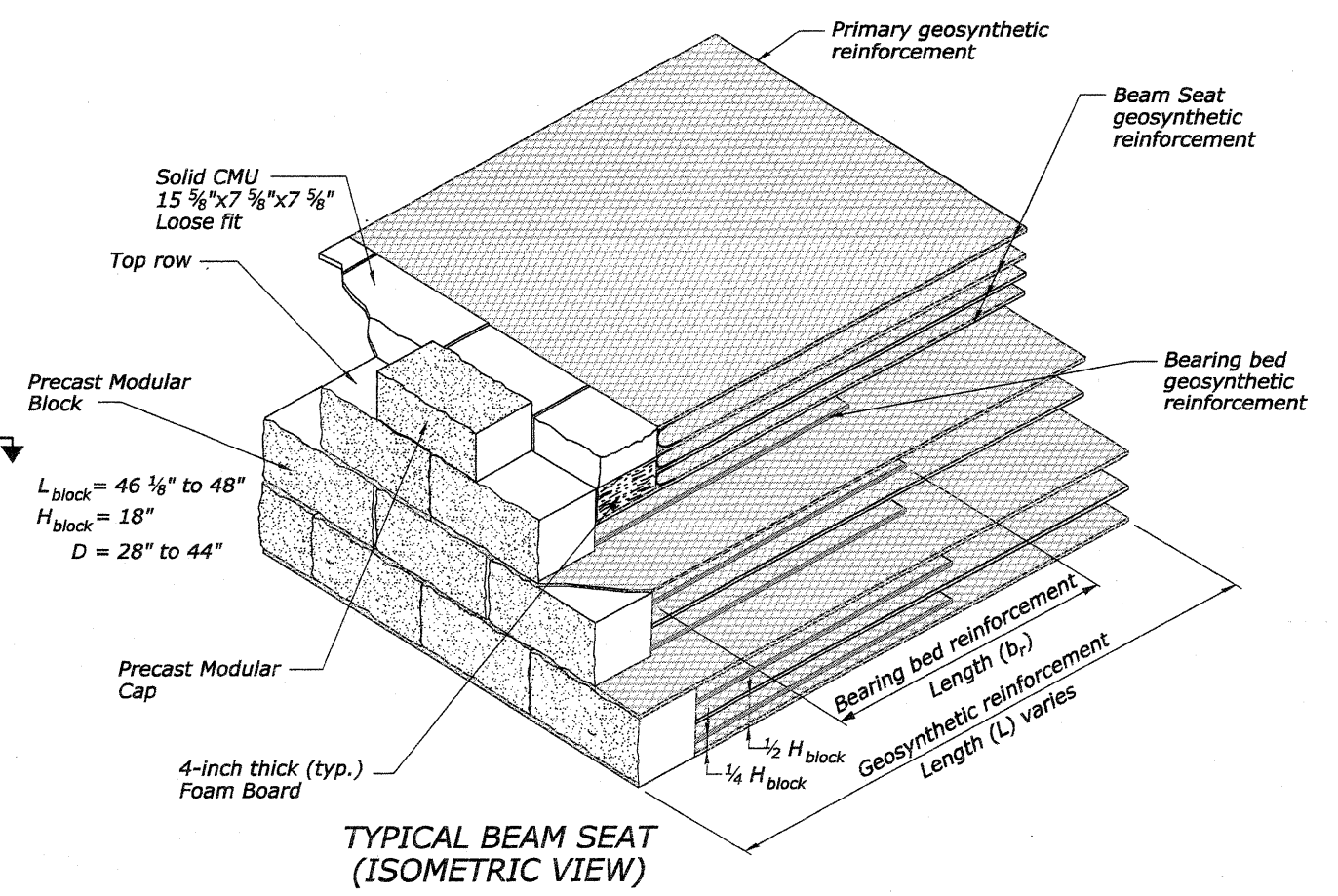


**TYPICAL PLAN VIEW
GRS-IBS ABUTMENT & WINGWALLS**
Portion of East Abutment Shown
West Abutment Similar
SCALE: 1/8" = 1'-0"



**TYPICAL BEAM SEAT
(ISOMETRIC VIEW)**

**Table 3 GRS-IBS DESIGN DIMENSIONS
for Wingwalls**

$B_{total} *$	B	$B_{RSF} *$	D_{RSF}	X_{RSF}	Wingwall Height
(FT)	(FT)	(FT)	(FT)	(FT)	(FT)
7.69	5.36	9.19	1.50	1.50	14.00
7.69	5.36	9.19	1.50	1.50	15.89
7.69	5.36	9.19	1.50	1.50	17.79
7.69	5.36	9.19	1.50	1.50	19.70
8.19	5.86	9.80	1.63	1.63	21.60
8.69	6.36	10.44	1.75	1.75	23.51
9.19	6.86	11.07	1.88	1.88	25.42
9.68	7.36	11.69	2.00	2.00	27.83

Wingwall Height = Wall height measured from Top of cap to Top of RSF.

* Adjusted from FHWA tables for 28" block depth. Adjust dimensions for other than 28" block.

ABBREVIATIONS:

- a_b = Set back distance between back of facing element and beam seat
- B = Base length of reinforcement not including the wall face
- b = Bearing width for bridge, beam seat
- B_b = Width of the bridge footing
- b_{block} = Width of Precast Concrete Modular Block
- b_r = Length of bearing bed reinforcement
- B_{RSF} = Width of RSF
- B_{total} = Total width at base of GRS abutment including the wall facing
- CMU = Concrete masonry unit
- d_{max} = Maximum partial diameter in reinforced backfill
- D_{RSF} = Depth of RSF below bottom of wall elevation
- GRS = Geosynthetic Reinforced Soil
- H = Wall height measured from top of RSF to top of beam seat
- H_{block} = Height of Precast Concrete Modular Block
- IBS = Integrated Bridge System
- L = Length of geosynthetic reinforcement
- L_{abut} = Abutment width
- L_{block} = Length of Precast Concrete Modular Block
- RSF = Reinforced soil foundation
- X_{RSF} = Length of RSF in front of the abutment wall face

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