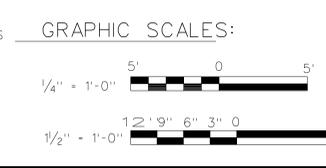
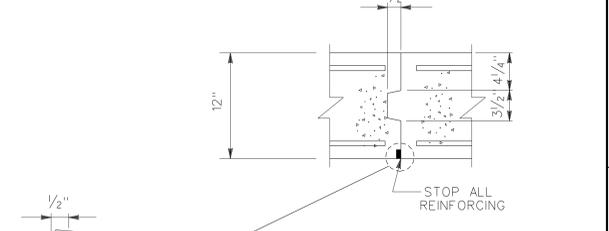
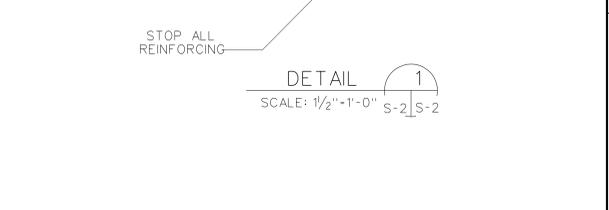
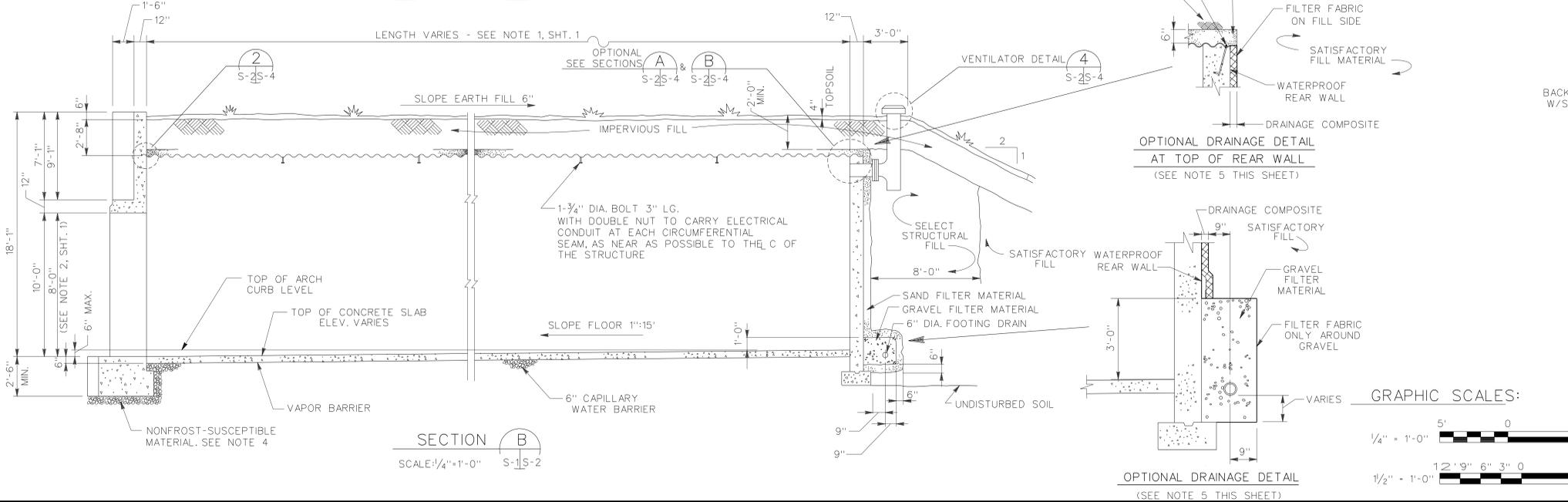
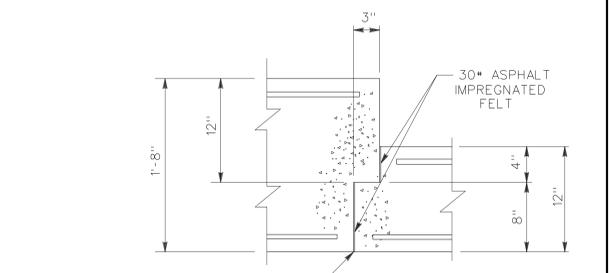
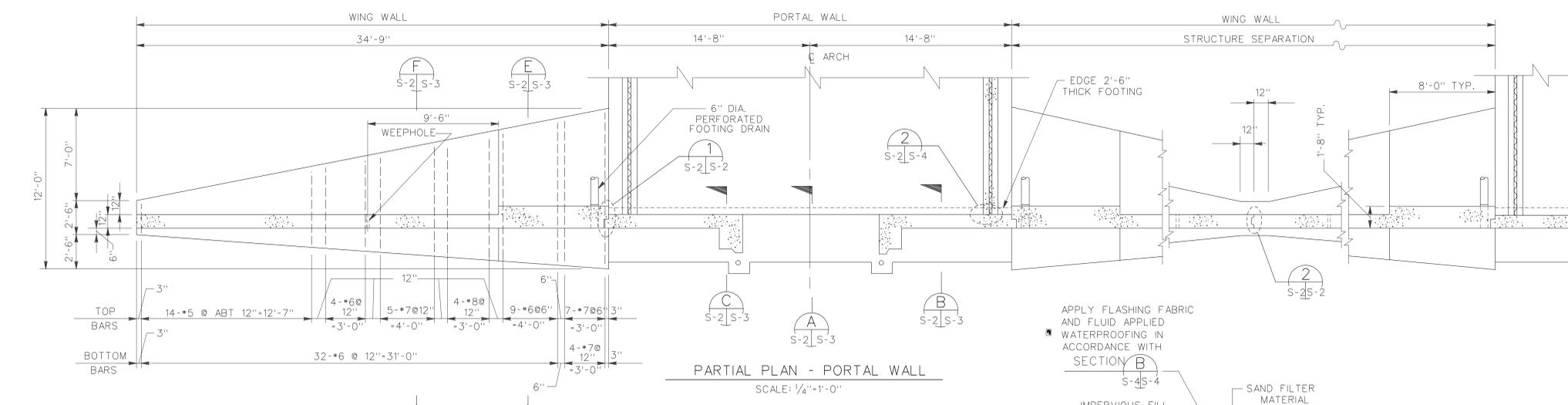


- NOTES:**
- IF AS A RESULT OF THE FOUNDATION INVESTIGATION OR LOCAL FROST CONDITIONS, IT IS DETERMINED THAT ANY OR ALL WALL FOOTINGS MUST BE LOWERED, THE APPROPRIATE WALL AND FOOTING DESIGNS MUST BE CHECKED AND ADJUSTED AS REQUIRED TO SUIT THESE CONDITIONS.
  - FOOTINGS ARE SIZED FOR A SOIL BEARING VALUE OF 3,000 P.S.F.. FOOTINGS MUST BE REDESIGNED IF THE SOILS INVESTIGATION DOES NOT CONFIRM THIS MINIMUM BEARING CAPACITY.
  - ALTERNATE MATERIALS AND/OR SYSTEMS MAY BE SUBMITTED FOR ACCEPTANCE AS A SUBSTITUTE FOR POURED-IN-PLACE WING WALLS, PROVIDED THEY ARE SHOWN TO BE STRUCTURALLY ADEQUATE AND COST EFFECTIVE.
  - IN FROST AREAS PROVIDE NONFROST-SUSCEPTIBLE MATERIAL UNDER HEADWALL FOOTING, TO FULL DEPTH OF FROST PENETRATION, OR LOWER BOTTOM OF FOOTING TO FROST PENETRATION DEPTH.
  - AS AN OPTION, THE SAND AND GRAVEL FILTER DRAINAGE COMPOSITES SYSTEM FOR THE REAR AND WING WALLS MAY BE REPLACED BY ANY OF A NUMBER OF DRAINAGE COMPOSITE SYSTEMS THAT USE A FILTER FABRIC BONDED TO A DRAINAGE MAT. THIS OPTION DOES NOT APPLY TO THE ARCH. IN ALL APPLICATIONS, THE DRAINAGE COMPOSITE IS PLACED SO THAT THE MORE PERMEABLE DRAINAGE MATERIAL IS NEXT TO THE STRUCTURE AND THE LESS PERMEABLE FILTER MATERIAL IS NEXT TO THE EARTH FILL. CARE MUST BE TAKEN DURING CONCRETE WORK TO CHAMFER SHARP CORNERS WHICH WOULD BE LIKELY TO DAMAGE THE DRAINAGE COMPOSITE.



Symbol	Description	Date	Approved
Revisions			
U.S. ARMY ENGINEER DIVISION, HUNTSVILLE CORPS OF ENGINEERS HUNTSVILLE, ALABAMA			
Site adapt A/E :	 <b>MAGAZINE, STEEL</b> <b>OVAL-ARCH, EARTH COVERED</b> <b>PORTAL WALL</b> <b>PLAN, ELEVATION AND DETAILS</b>		
Dwn. by: RDP			
Reviewed by :			
Approved by :			
Date : 30 OCT 92	Sheet reference number : S-2	Design file no. : 65857	Rev. :
Drawing code : STD 421-80-03	Sheet 3 of 10		