

GENERAL NOTES: (CONTINUED FROM S-1)

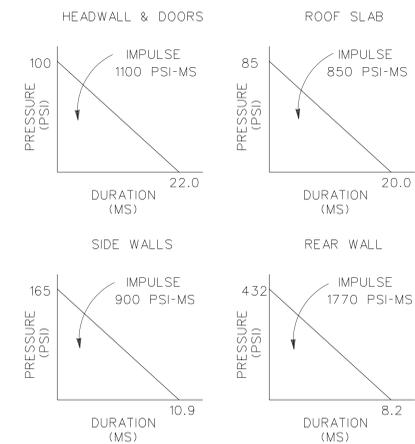
- 15. REINFORCING STEEL, BFR STEEL PANELS, AND ALL OTHER METAL SHALL BE MADE ELECTRICALLY CONTINUOUS. SEE NOTE 9 ON SHEET E-1.
- 16. FOUNDATIONS SHOWN ARE DESIGNED FOR A FROST DEPTH OF 2'-6" OR LESS. IF FROST DEPTH IS DEEPER, PROVIDE NON-FROST-SUSCEPTIBLE MATERIAL UNDER HEADWALL FOOTINGS OR LOWER FOOTINGS.
- 17. 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 TO SUIT THESE CONDITIONS.
- 18. FOOTINGS ARE DESIGNED FOR A SOIL BEARING PRESSURE OF 3,000 PSF. FOOTINGS MUST BE REDESIGNED IF THE SOILS INVESTIGATION DOES NOT CONFIRM THIS MINIMUM BEARING CAPACITY.
- 19. LOUVERS AND VENTILATOR ARE OPTIONAL. THEIR NECESSITY AND SIZE SHALL BE DETERMINED DURING THE SITE ADAPTATION PROCESS BASED ON MATERIAL TO BE STORED AND GEOGRAPHICAL LOCATIONS. THE LOUVER WIDTH OF 6 INCHES SHALL BE MAINTAINED. THE LOUVER HEIGHT MAY BE VARIED AS REQUIRED.
- 20. WINGWALLS AND FOUNDATIONS ARE DESIGNED USING THE STATIC LOAD SOIL PROPERTIES GIVEN BELOW. WINGWALLS AND FOUNDATIONS SHALL BE REDESIGNED AS REQUIRED FOR SITE-SPECIFIC SOIL CONDITIONS.

DESIGN LOADS:

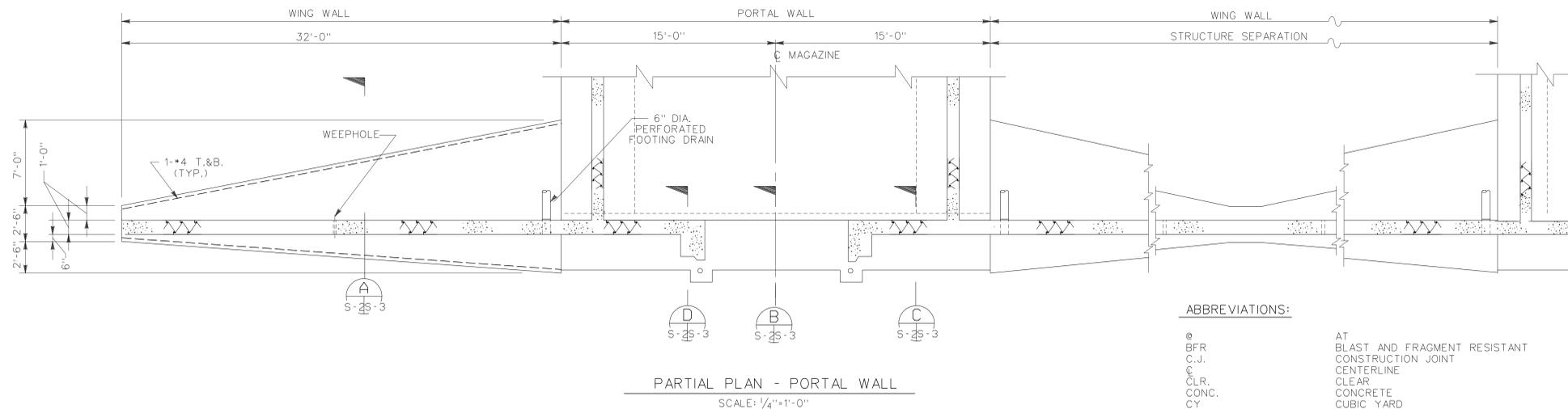
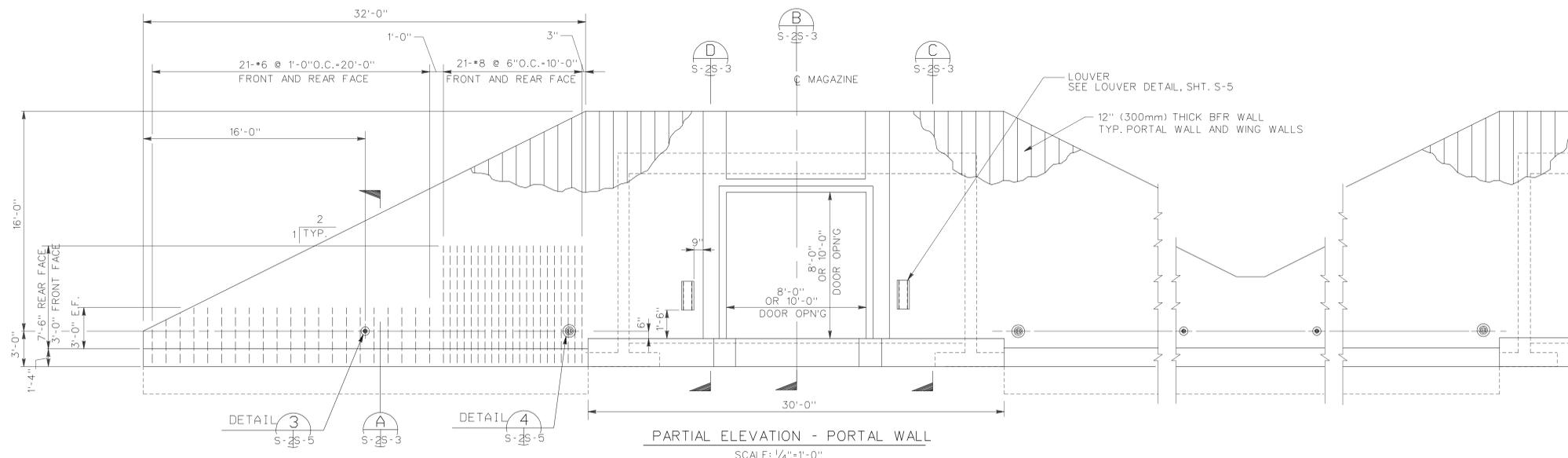
1. STATIC LOADS:

SOIL DENSITY 110 PCF  
 SOIL ANGLE OF REPOSE 33 DEGREES  
 LIVE LOAD SURCHARGE 100 PSF

2. OVERPRESSURE LOADS:



OVERPRESSURE LOADS FOR HEADWALL, DOORS AND REAR WALL ARE FROM FRONT-TO-REAR SPACING OF 2.0W. LOADS FOR ROOF AND SIDE WALLS ARE FROM SIDE-TO-SIDE SPACING OF 1.25W.



ABBREVIATIONS:

⊙	BFR	AT
⊙	C.J.	BLAST AND FRAGMENT RESISTANT
⊙	CLR.	CONSTRUCTION JOINT
⊙	CONC.	CENTERLINE
⊙	CY	CLEAR
⊙	DIA.	CONCRETE
⊙	E.F.	CUBIC YARD
⊙	ELEV.	DIAMETER
⊙	E.W.	EACH FACE
⊙	EXP.	ELEVATION
⊙	GALV.	EACH WAY
⊙	GA.	EXPANSION
⊙	L.G.	GALVANIZED
⊙	MAX.	GAUGE
⊙	MIN.	LONG
⊙	mm	MAXIMUM
⊙	MS	MINIMUM
⊙	NEW	MILLIMETERS
⊙	NOM.	MILLISECONDS
⊙	O.C.	NET EXPLOSIVE WEIGHT
⊙	OPN'G	NOMINAL
⊙	PL	ON CENTER
⊙	PCF	OPENING
⊙	PSF	PLATE
⊙	PSI	POUNDS PER CUBIC FOOT
⊙	R.	POUNDS PER SQUARE FOOT
⊙	REQ'D	POUNDS PER SQUARE INCH
⊙	SHT.	RADIUS
⊙	SIM.	REQUIRED
⊙	STD.	SHEET
⊙	SYM.	SIMILAR
⊙	T.&B.	STANDARD
⊙	TYP.	SYMMETRICAL
⊙	W/	TOP AND BOTTOM
⊙	W	TYPICAL
		WITH
		NET EXPLOSIVE WEIGHT

EXPLOSIVE SAFETY REQUIREMENTS:

- 1. THE MAXIMUM NET EXPLOSIVE WEIGHT (NEW) STORED IN EACH MAGAZINE SHALL BE 500,000 POUNDS, CLASS/DIVISION 1.1.
- 2. SITING OF MAGAZINES SHALL BE IN ACCORDANCE WITH DOD 6055.9-STD, "AMMUNITION AND EXPLOSIVES SAFETY STANDARDS".
- 3. MODIFICATIONS TO THE STRUCTURE, EXCEPT FOR SITE ADAPTION OF WING WALLS AND FOUNDATIONS, ARE NOT PERMITTED. IF ANY MODIFICATIONS ARE MADE, THE MAGAZINE SHALL BE CONSIDERED NON-STANDARD AND LIMITED TO 250,000 POUNDS NEW AND SHALL BE SITED ACCORDINGLY.

GRAPHIC SCALES:



Symbol	Description	Date	Approved

U.S. ARMY ENGINEER DIVISION,  
 HUNTSVILLE  
 CORPS OF ENGINEERS  
 HUNTSVILLE, ALABAMA

MAGAZINE, STEEL AND  
 CONCRETE BOX,  
 EARTH COVERED  
 PORTAL WALL  
 PLAN, ELEVATION AND DETAILS

Site adapt A/E : **JMS**

Dwn. by: RP Ckd. by: JMS

Reviewed by: Date: 15 DEC 92 Sheet reference number: S-2 Design file no.: 65822

Approved by: Drawing code: STD 421-80-02 Sheet 3 of 11