



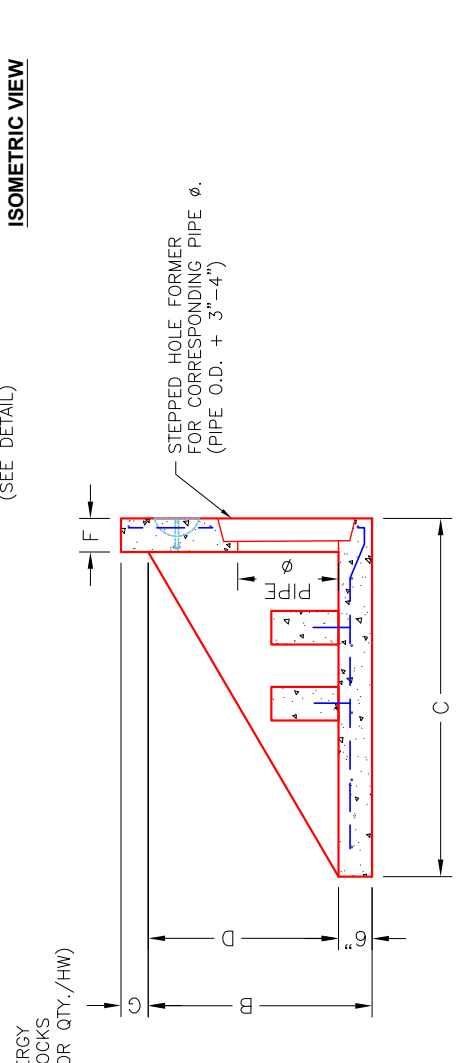
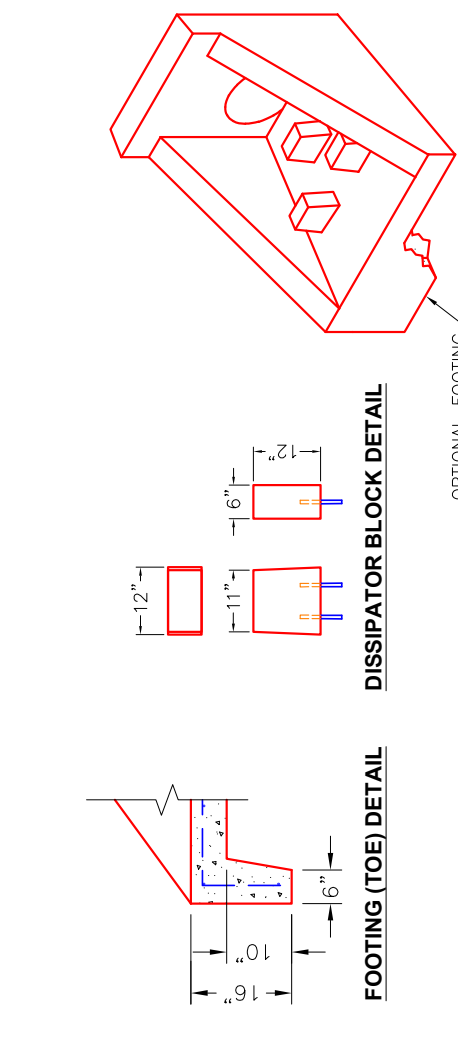
Structure ID: A1 (2)

P1 HWA18D

18" - HW AW w/TOE/DISSIPATORS F/F

DIMENSIONS & QUANTITIES

TYPE	PIPE ϕ	A	B	C	D	E	F	G	QTY. BLOCKS	WEIGHT W/TOE	WEIGHT
AW	18"	2'-8"	4'-0"	2'-6"	2'-2"	2'-0"	6"	0"	3 EA.	1,845 LBS.	1,595 LBS.



ICAST
 INFRASTRUCTURE PRECAST

INFRASTRUCTURE PRECAST, INC.
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PRECAST WINGED HEADWALL WITH ENERGY DISSIPATORS

DRAWING NO.: NNETRO SF-HW DATE: 01-04-23
 REVIEWED BY: J.H. ROSS, PE DRAWN BY: N. RICHARDS
 WEB: WWW.ICASTINC.COM SCALE: NTS

- NOTES:**
1. CONCRETE: 4500 PSI AT 28 DAYS MINIMUM COMPRESSIVE STRENGTH.
 2. REINFORCING: #4 BAR @ 12" C/C E.W. - GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
 3. REINFORCING BARS TO BE TACK WELDED OR TIED.
 4. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH NON-SHRINK GROUT AFTER SETTING.
 5. PREFORMED STEPPED HOLE SIZED AS PER O.D. OF PIPE + 3"-4".
 6. OPTIONAL FOOTING (TOE) AVAILABLE FOR ALL SIZES.
 7. DISSIPATOR BLOCKS INSTALLED POST POUR OF HEADWALL WITH 2 EA. #5 REBAR DOWELS.