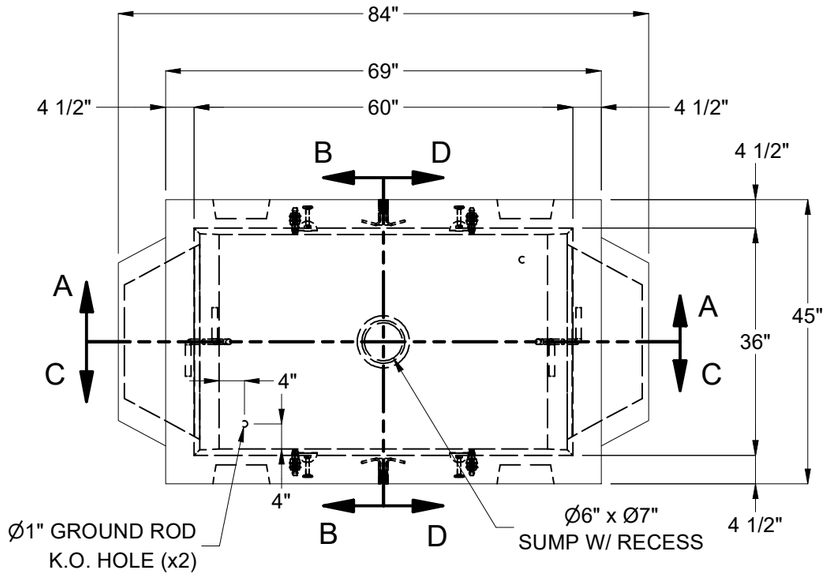
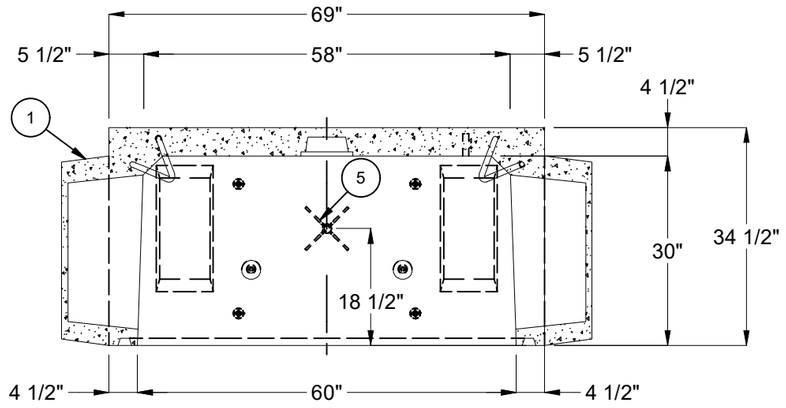
DESIGN NOTES
■ DESIGNED IN ACCORDANCE WITH AASHTO HS20-44 TRAFFIC BRIDGE LOADING USING 5,500 PSI COMPRESSIVE STRENGTH CONCRETE AND 60,000 PSI YIELD STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCS. #31395.
■ ALL PARTS TO BE STENCILED: MFG DATE / JOB NUMBER / PRODUCT ID / WEIGHT.

BILL OF MATERIALS

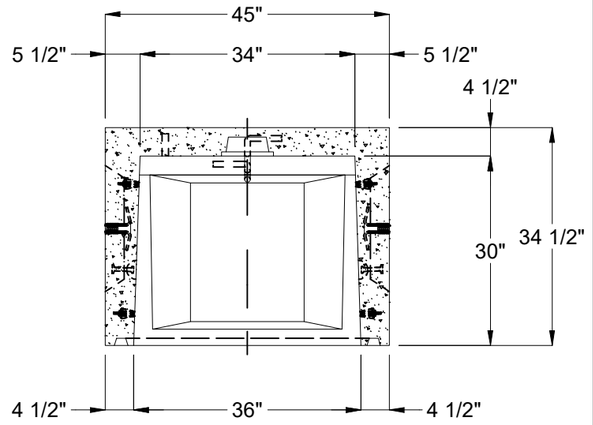
ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION
1	24.712 ft^3	24.712 ft^3	100024079	CONCRETE #19 SCC
2	1	4	100002867	ANCHOR DOGBONE P52 2T X 3-3/8" GALV
3	1	2	100003026	PULL IRON OFFSET .875DIA 6H X 5W X 10.875L GALV
4	1	8	100012720	INSERT PLASTIC W/ BREAK OFF SNAP 0.5IN
5	1	2	100044597	Insert Thin Slab Coil 4-Leg 1 x 4" Galv (F53 or Equiv.)
6	1	1	100017939	REINFORCING MAT 100017939



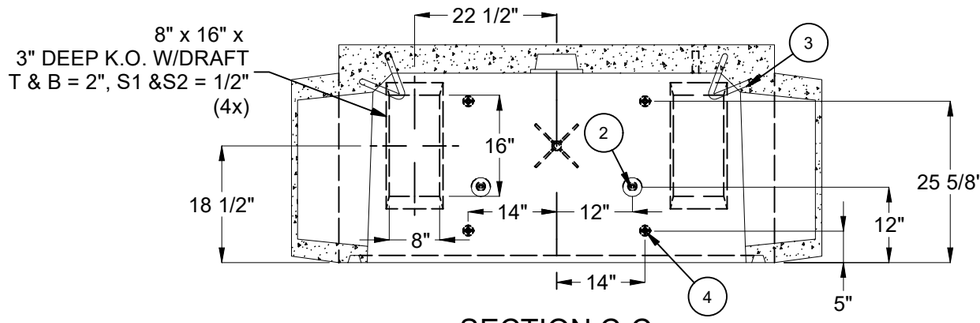
PLAN VIEW



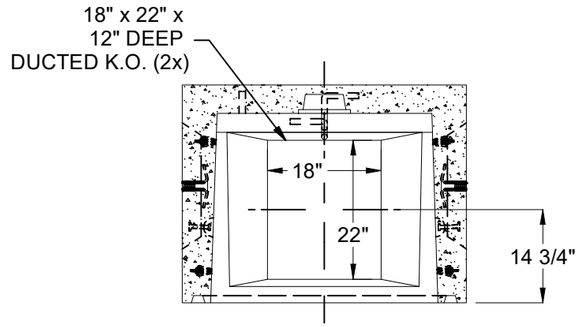
SECTION A-A



SECTION B-B



SECTION C-C

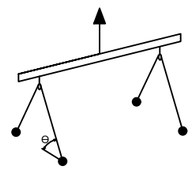


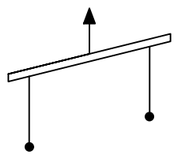
SECTION D-D

LIFTING NOTES
■ INSTALLATION: THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 5500 PSI WITH 4 LIFT CONNECTIONS EQUALLY LOADED TO 4 LIFTING POINTS AT A MINIMUM 60° SLING ANGLE, MEASURED FROM HORIZONTAL.
■ DEMOLDING: THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 2500 PSI WITH 2 LIFT CONNECTIONS EQUALLY LOADED TO 2 LIFTING POINTS AT A MINIMUM 90° SLING ANGLE, MEASURED FROM HORIZONTAL.
*All rigging shall be design by a qualified professional. Loading diagrams show illustrations of possible rigging setups to achieve the required sling angle and load leg equalization. Other valid rigging configurations are possible. A qualified professional must be consulted prior to lifting.

RIGGING DIAGRAMS*

INSTALLATION	C	DEMOLDING	G





REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C-2	REVISED REINFORCING CAGE	8/28/2024	

BURY DEPTH:	0.5' - 0.5' to Top		
WATER LEVEL:	3.0'	APPROX. WEIGHT:	3718.87 Lbs
DESIGN SPEC:	ACI 318,ASTM C857	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Rebar	LIFTING TYPE:	Dogbone

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DESCRIPTION:	Vault 3660x30 Rect. Bottom Section Knockout Ducted,Sump CASTING LAYOUT		REV: C-1
PART NUMBER:	100012211	DRAWN BY:	M. Zaragoza
CREATED:	3/20/2024	MODIFIED:	8/28/2024
			SHEET: 1 OF 1

100012211.idw