DESIGN NOTES:

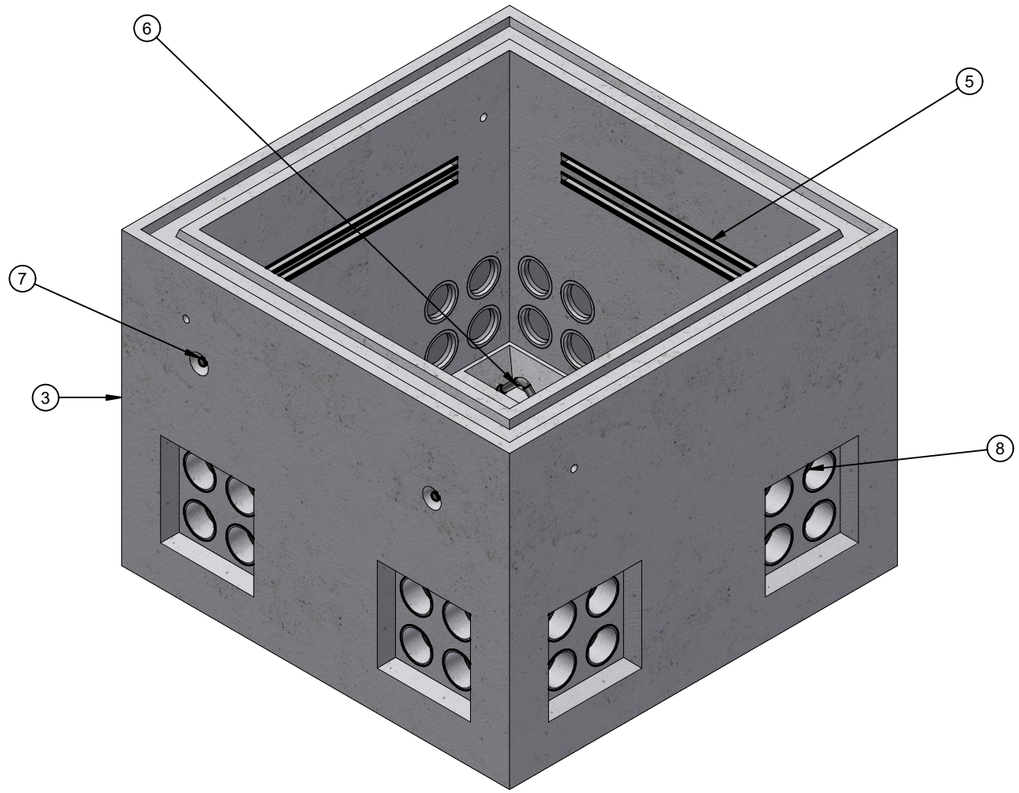
- CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI
- SOIL UNIT WEIGHT DRY - 110 lbs/cu.ft.
- EQUIVALENT LATERAL PRESSURE DRY - 40 lbs/cu.ft.
- SOIL UNIT WEIGHT WET - 120 lbs/cu.ft.
- EQUIVALENT LATERAL PRESSURE WET - 80 lbs/cu.ft.

PRODUCTION NOTES:

- LIFTING INSERTS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS
- APPLIED FINISH - NONE
- INTERNAL LINER/COATING - NONE
- EXTERNAL LINER/COATING - NONE

BILL OF MATERIALS

ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION
1	1	1	400001326	REINFORCING MAT 400001326
2	1	1	400001327	REINFORCING MAT 400001327
3	37.286 ft^3	37.286 ft^3	100011425	CONCRETE MIX GENERIC 5000 PSI
4	1	1	100003073	SUMP PAN W/LID D12X4 PLASTIC MB BSP-2/BC150120
5	32.000 in	256.000 in	100024619	STRUT C-CHANNEL CONCRETE INSERT 1-5/8 X 1-5/8 12GA W/ANCHORS GALV
6	1	4	100004660	PULL IRON OFFSET B783519 3.5H X 19L X.875DIA GALV
7	1	8	100002867	ANCHOR DOGBONE P52 2T X 3-3/8" GALV
8	1	32	100003015	TERMINATOR DUCT WITH SEAL 4.5IN T4501

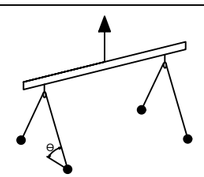


ISO LAYOUT

400001266.idw

LIFTING NOTES
■ THIS CONCRETE PRODUCT IS DESIGNED TO BE LIFTED AT 2500 PSI WITH 4 LIFT CONNECTIONS EQUALLY LOADED TO 4 LIFTING POINTS AT A MINIMUM 45° 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 DIAGRAM* **C**



BURY DEPTH:	3.5' - 5.0' to Top		
WATER LEVEL:	Below Structure	APPROX. WEIGHT:	5897.5 Lbs
DESIGN SPEC:	ACI 318,ASTM C857	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:	Rebar	LIFTING TYPE:	Dogbone

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CHANGE HISTORY

NO.	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	10/19/2019	MD
B	UPDATED DRAWING	7/29/2024	J.R.
	INITIAL RELEASE-CHANGE TERMINATOR PART#	9/9/2025	HA

DESCRIPTION: Vault 4848x45 Rect. Bottom Section Knockout,Terminators,Opening Sump Roseville 12KV

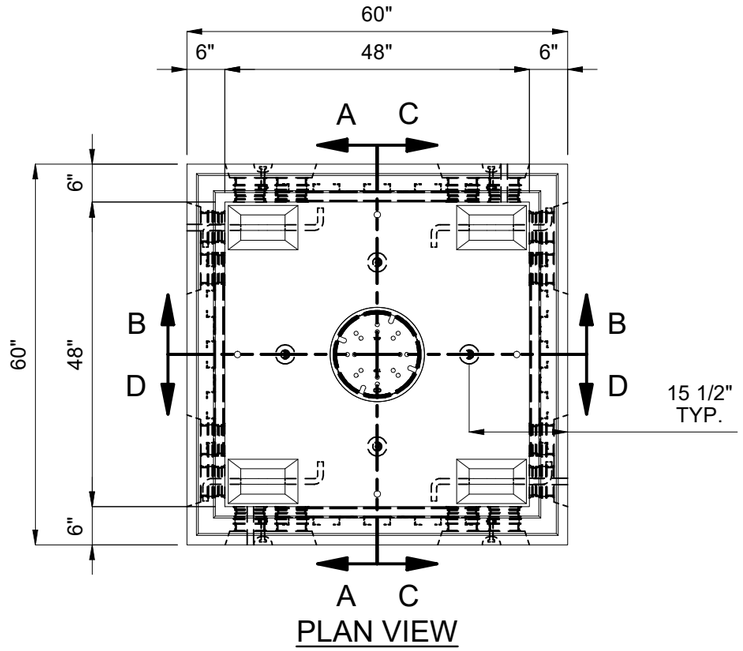
CASTING LAYOUT

REV: A-1-2

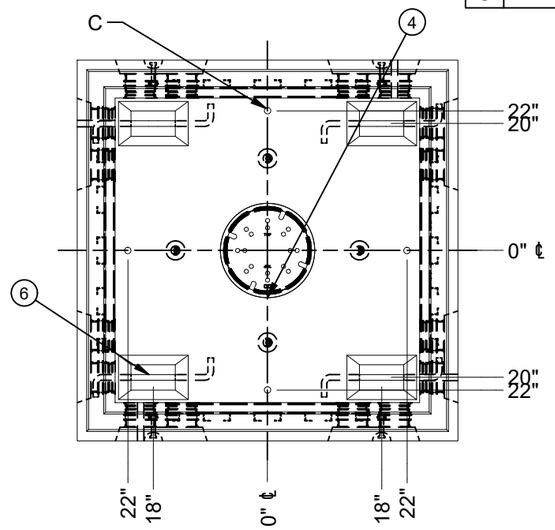
PART NUMBER:	400001266	DRAWN BY:	H.Alnuaimi
CREATED:	9/3/2019	MODIFIED:	9/10/2025

SHEET: 1 OF 2

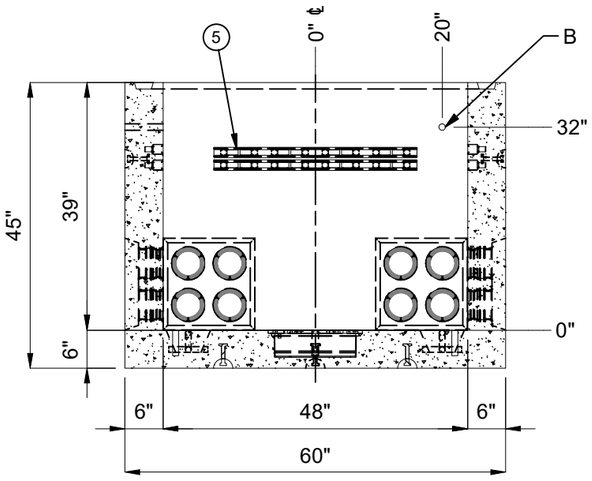
FEATURES		
ID	DESCRIPTION	QTY
A	13"(X) x 13"(Y) x 1 3/4" Deep Thinwall	8
B	Ø1" (Rough) Opening	4
C	Ø1" x 4" Deep Knockout	4



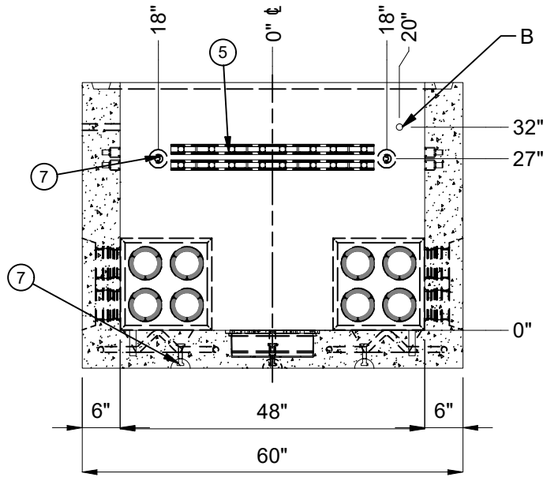
PLAN VIEW



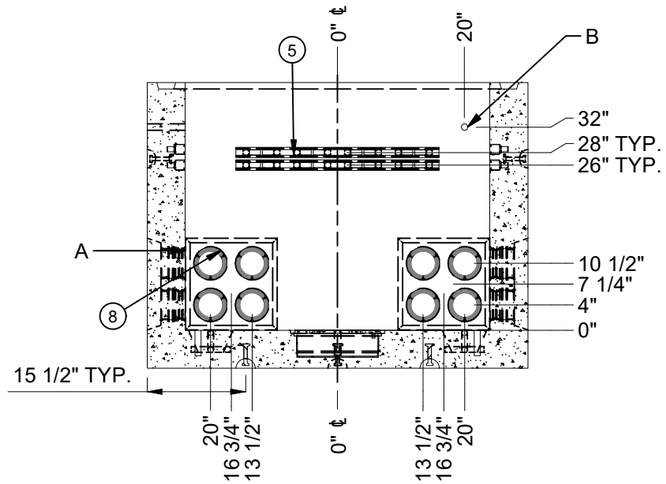
PLAN VIEW
(SHOWING OBJECT DIMENSIONS)



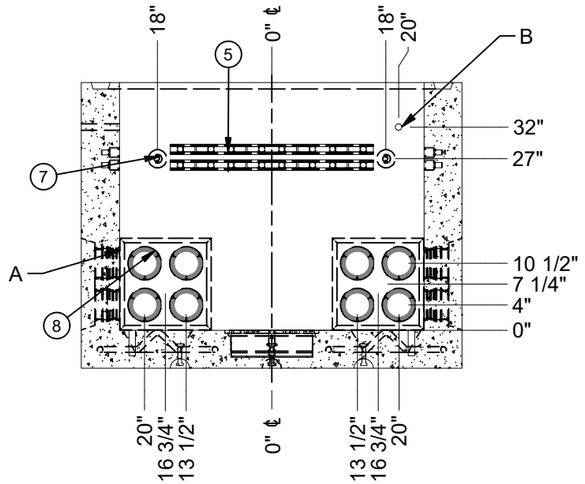
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

BURY DEPTH:	3.5' - 5.0' to Top		
WATER LEVEL:	Below Structure	APPROX. WEIGHT:	5897.5 Lbs
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REINFORCEMENT TYPE:	Rebar	LIFTING TYPE:	Dogbone

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DESCRIPTION:	Vault 4848x45 Rect. Bottom Section Knockout,Terminators,Opening Sump Roseville 12KV CASTING DRAWING		REV: A-1-2
PART NUMBER:	400001266	DRAWN BY:	H.Alnuaimi
CREATED:	9/3/2019	MODIFIED:	9/10/2025
			SHEET: 2 OF 2

400001266.idw