

**NOTES:**

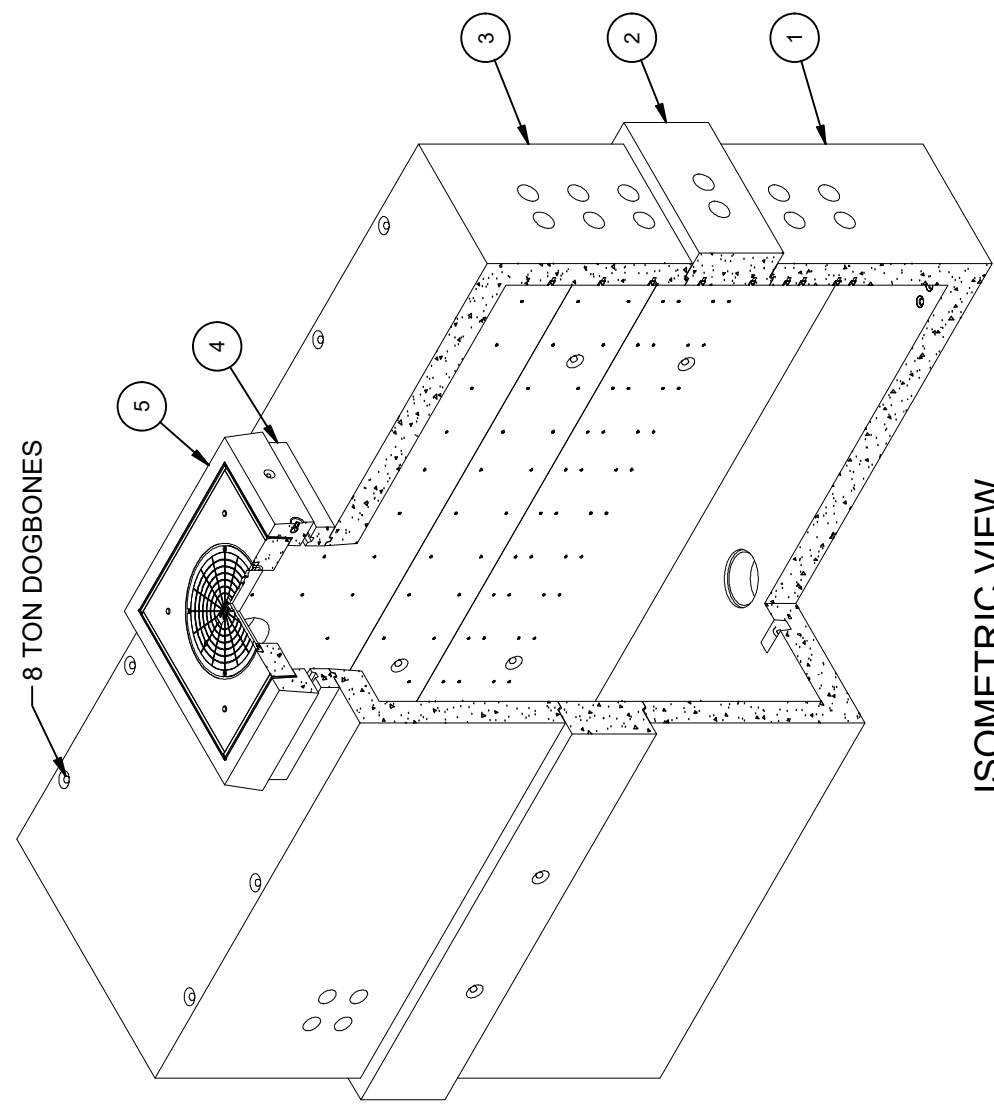
- STANDARDS. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, WITH 2022 CALTRANS AMENDMENTS, CITY OF LOS ANGELES BUREAU OF ENGINEERING STANDARD PLAN S-601, LATEST, MANUAL PART H, LADWP P 178, ASTM C-857. STRUCTURAL CALCS FOR BOX: #34906.
- MATERIAL. CONCRETE, F<sub>c</sub>=5,500 PSI. MIX TO INCLUDE FLY ASH AND DCI. REINFORCEMENT PER ASTM A-706, F<sub>y</sub>=60,000.
- LOADS. VERTICAL LIVE LOAD: AASHTO HL-93. LIVE LOAD SURCHARGE: PER LA BOE PART H, FIGURE H 374.2A. MINIMUM 80 PSF (TO BOTTOM OF VAULT) OR LADWP P 178 (104 PSF). SOIL LATERAL LOADS: 40 PCF (DRY), 81 PCF (SATURATED), SATURATED SOIL CONDITIONS 3'-0" BELOW GRADE. SOIL BEARING CAPACITY = 1,500 PSF. DESIGN SOIL DENSITY IS 120 PCF.
- LOADS NOT INCLUDED. DESIGN DOES NOT INCLUDE COOPER E-80 RAILROAD LOADS OR LATERAL OR SURCHARGE LOADS THAT ARE PRODUCED BY FOOTING OR FOUNDATIONS ADJACENT TO THE STRUCTURE. THIS SUBSTRUCTURE SHALL BE KEPT AT LEAST IN A 1:1 RATIO AWAY FROM ALL FOOTINGS AND FOUNDATIONS, UNLESS THE ENGINEER OF RECORD APPROVES IN WRITING.
- INSTALLATION. VAULT TO BE PLACED ON A MIN. 18" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION. BASE MATERIAL IN ACCORDANCE WITH SECTION 200-2 OF THE SSPWC (GREEN BOOK).
- INSTALLATION LIMITS. VAULT SHALL HAVE A MINIMUM COVER 1'-6" AND A MAXIMUM COVER OF 4'-0".
- EACH CONCRETE SECTION SHALL BE MARKED ON THE INSIDE & OUTSIDE WITH "JENSEN PRECAST", THE DESIGNATION "DWP/FA-CN", AND THE DATE OF THE POUR.
- EACH CONCRETE SECTION SHALL HAVE CAST-IN ON THE INSIDE "JENSEN", THE YEAR, AND THE DESIGNATION "FA-CN".
- EACH PIECE TO BE STENCILIED WITH ITS PART NO.
- NO SHARP OR ROUGH EDGES ON THE TERMINATORS ENTERING THE VAULT.
- CITY OF LA APPROVED 4' X 4' VAULT NECK AND COVER, WITH APPROVED CAST IRON COVER TO BE USED WITH THIS VAULT
- MINIMUM EXCAVATION SIZE: 8'-4" X 22'-4" X DEPTH REQ'D.
- ADDITIONAL SUBMITTAL, PERMIT AND CONSTRUCTION PLAN REVIEW WILL BE REQUIRED FOR EACH PROJECT LOCATION. SUBMIT TO CITY ENGINEERS FOR APPROVAL PRIOR TO START OF ANY CONSTRUCTION.
- ALL INSTALLATIONS SHALL COMPLY WITH ALL OTHER LOCAL GOVERNING CODES AND REGULATION INCLUDING CALIFORNIA PUBLIC UTILITIES COMMISSION REGULATIONS.

**LIFTING NOTES**

- FIELD INSTALLATION: PLANT DEMOLDING: MINIMUM HANDLING CONCRETE STRENGTH F<sub>c</sub> = 5500 PSI RIGGING EQUALIZER REQUIRED TO EQUALIZE LOAD TO 8 LIFTING POINTS WITH A SLING ANGLE BETWEEN 60° AND 90°
- BURY DEPTH: 1.5' - 4.0' to Top
- WATER LEVEL: 3.0'
- APPROX. WEIGHT: 110884.75 Lbs
- DESIGN SPEC: AASHTO LRFD/ACI 318, ASTM C857
- LOADING SPEC: AASHTO HL-93
- AGENCY: LADWP
- AGENCY SPEC:

**BILL OF MATERIALS**

ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	MASS (lb)
1	1	1	200074781	Vault 72240x57 Rect. Bottom Section Knockout, Terminators Sump LADWP	45380
2	1	1	200074780	Riser 72240x27 Terminators LADWP	18688
3	1	1	200074779	Vault 72240x57 Rect. Top Section 48"x48"C Terminators LADWP	42173
4	1	1	100012395	Riser 4848x6 LADWP 1-802 G-1B	792
5	1	1	200060771	Vault Neck and Plug Cover Assembly 4848x12 30"C LADWP 1-802 G-1B R-1581	3325
6	1	1	100009256	LADDER HOOKED GALV 14FT ED/LA I3382	
7	1	1	100007585	LADDER HANGER ASSEMBLY GALV	
8	1	4	100009239	ROD THREADED COIL YELLOW DIP 3/4 X 10-1/2"	
9	1	8	100007010	HEX COIL NUT 3/4-4.5 ZINC - PLATED	
10	1	8	100007136	WASHER FLAT 3/4 REGULAR TYPE A ZINC	
11	1	8	100008135	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 228IN	
12	1	5	100006061	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 168IN	
13	1	2	100006062	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 18IN	
14	1	1	100006067	STRUT SLOTTED C-CHANNEL 1-5/8 X 1-5/8 12GA BOLT-ON GALV 72IN	
15	1	212	100008101	SCREW BUTT HEAD CAP 1/2-12 2 304SS	
16	1	212	100007135	WASHER FLAT 1/2 TYPE A 304SS	
17	1,000 ul	1,000 ul	100005749	SEALANT JOINT BUTYL RUBBER ASTM C-990 AND M198 CS-102 1IN EQUIV X14.5FT PER BOX 118FT	



**ISOMETRIC VIEW**

REV	DESCRIPTION	DATE	APPROVED
E-2	REVISED TO COMPLETE KIT	9/8/2023	

REVISION HISTORY

DESCRIPTION: Vault Layout 72240x141 Terminators Sump 48"x48"C LADWP

REV: E-2

SHEET: 6

PART NUMBER: 200074778 LAYOUT REVIEW

DRAWN BY: S. Woods

CREATED: 1/17/2023 MODIFIED: 9/8/2023

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