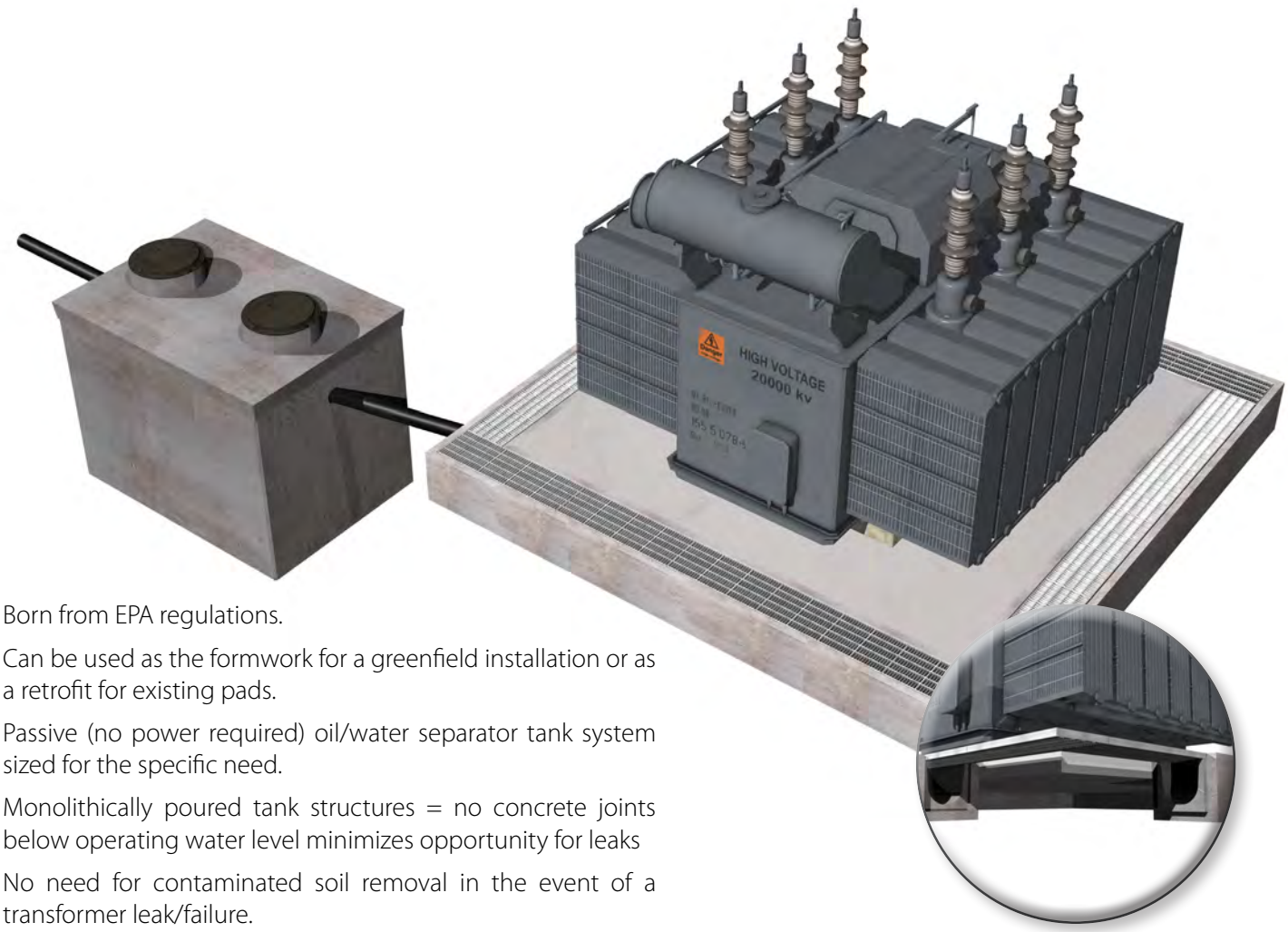
Cimperman Sales Inc.
12930 63rd Avenue North
Maple Grove, MN 55369
(763)-951-8010

Transformer Pad Gutter System



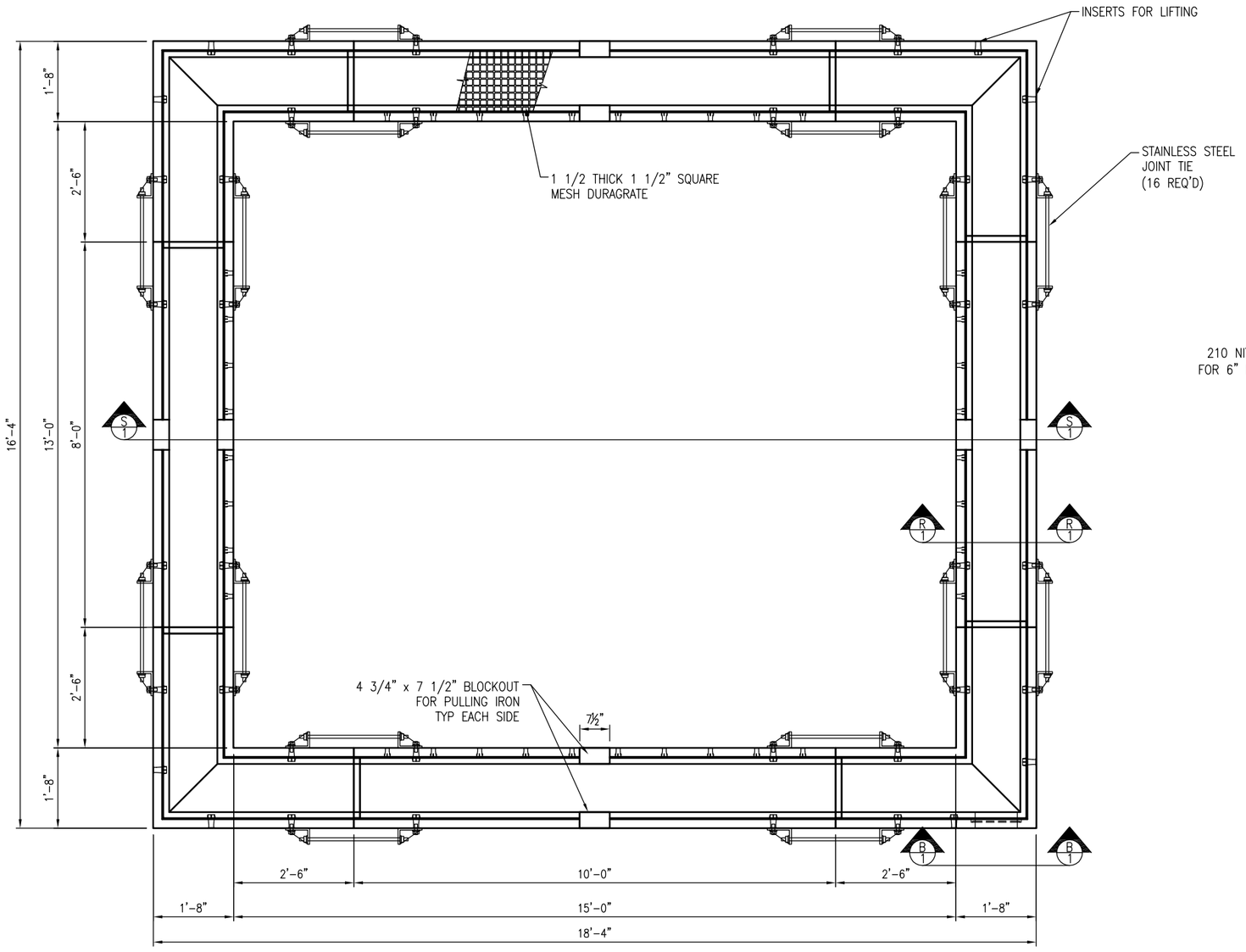
- Born from EPA regulations.
- Can be used as the formwork for a greenfield installation or as a retrofit for existing pads.
- Passive (no power required) oil/water separator tank system sized for the specific need.
- Monolithically poured tank structures = no concrete joints below operating water level minimizes opportunity for leaks
- No need for contaminated soil removal in the event of a transformer leak/failure.

Easy Installation and lightweight sections do not require a crane to set in place

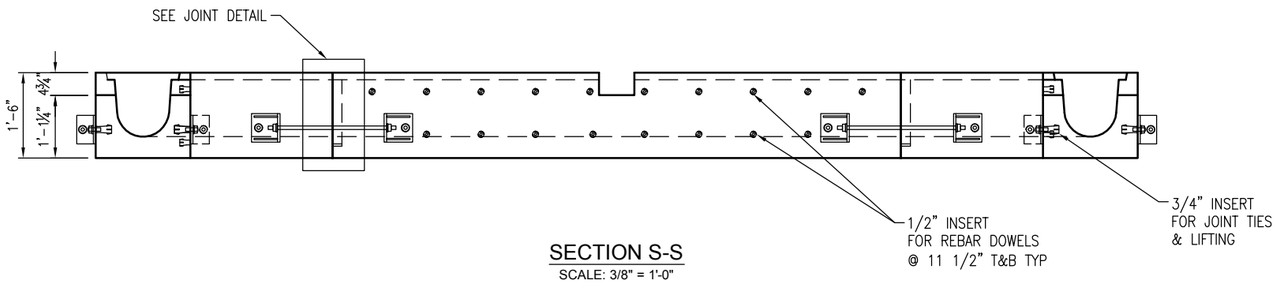
Modular System can be sized as needed

Rounded bottom trench minimizes standing water without the need for sloped floor

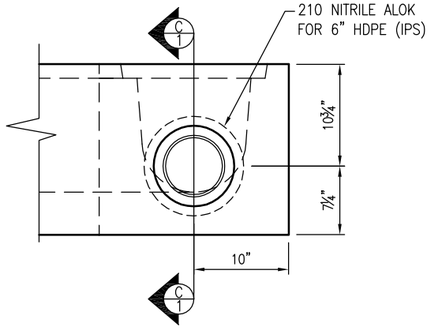
Patent Pending



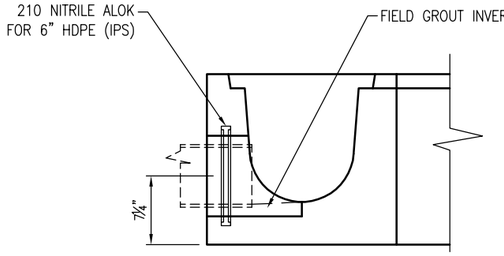
PLAN VIEW
SCALE: 3/8" = 1'-0"



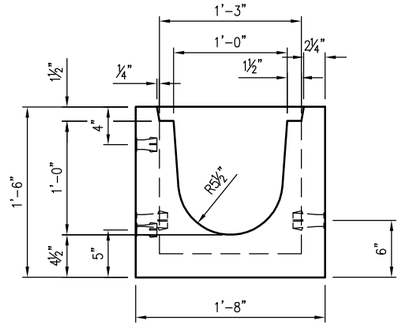
SECTION S-S
SCALE: 3/8" = 1'-0"



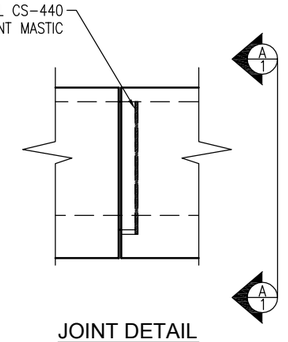
VIEW B-B
SCALE: 3/4" = 1'-0"



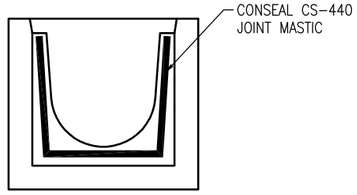
SECTION C-C
SCALE: 3/4" = 1'-0"



SECTION R-R
SCALE: 3/4" = 1'-0"



JOINT DETAIL
SCALE: 3/4" = 1'-0"



VIEW A-A
SCALE: 3/4" = 1'-0"

DESIGN NOTES

1. REBAR: ASTM A-615 GRADE 60
2. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c= 5000 psi (MIN)
3. CEMENT: ASTM C-150 SPECIFICATIONS

BILL OF MATERIALS

QUANTITY	DESCRIPTION
3 EA	CORNER TRENCH SECTION
1 EA	CORNER TRENCH WITH DRAIN
2 EA	10' TRENCH SECTION
2 EA	8' TRENCH SECTION
16 EA	S.S. JOINT TIE KITS
64 EA	THREADED #4 REBAR DOWELS
2 ROLLS	CONSEAL CS-440 MATIC
4 EA	1 1/2 THICK 1 1/2" SQ. MESH DURAGRATE 1'-2 7/8 x 7'-11 3/8"
4 EA	1 1/2 THICK 1 1/2" SQ. MESH DURAGRATE 1'-2 7/8 x 7'-8 1/8"

WEIGHTS

10' SECTION	2100 LBS
8' SECTION	1680 LBS
CORNER SECTION	1400 LBS
TOTAL	13,160 LBS

Oldcastle Precast®
5230 N.W. 17th TOPEKA, KS 66618
PHONE: 785-232-2982 FAX: 785-232-5842

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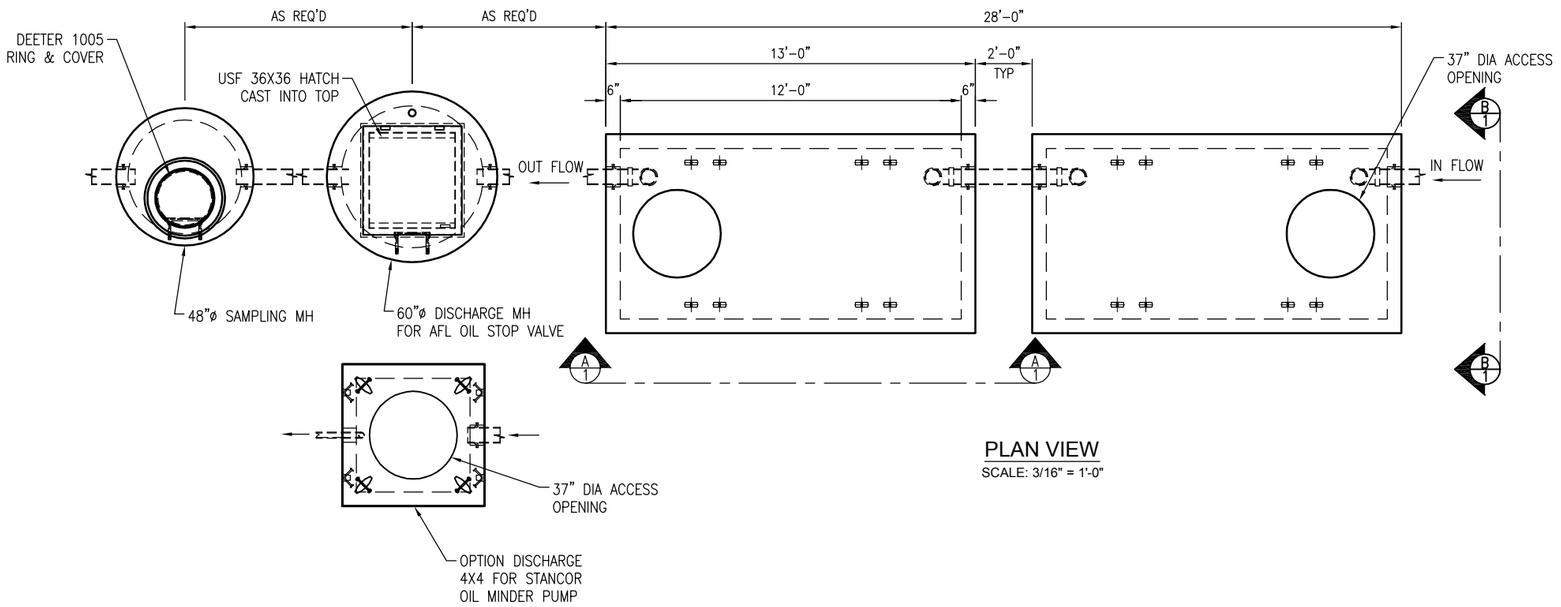
13X15 TRENCH - 6" OUTLET

STANDARD 13 x 15 LAYOUT
CONTAINMENT TRENCH
ST. LOUIS, MO

CUSTOMER
AMEREN

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
9/16/13	JPC	DLF			

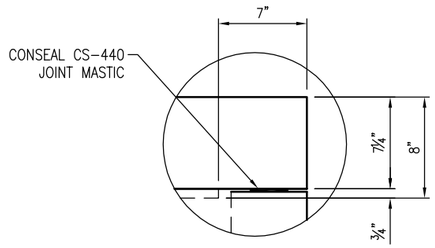
DRAWING NUMBER	REVISION	SHEET
120-13X15-TRENCH-6	1 REV DATE 10/7/13	1 OF 1



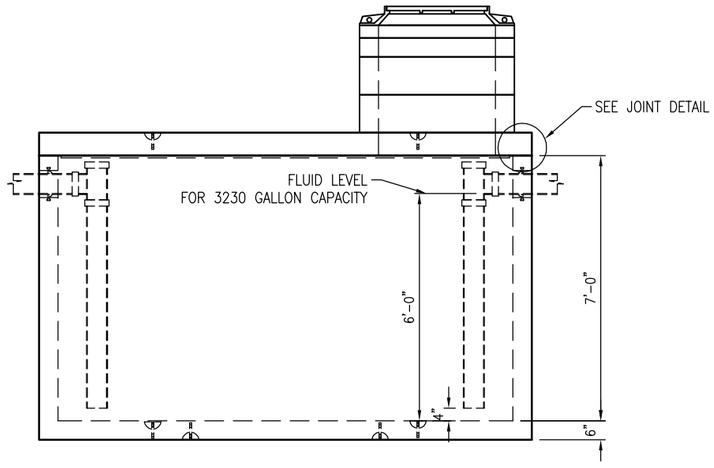
PLAN VIEW
SCALE: 3/16" = 1'-0"

DESIGN ALLOWS FOR DIFFERENT
LAYOUT CONFIGURATIONS

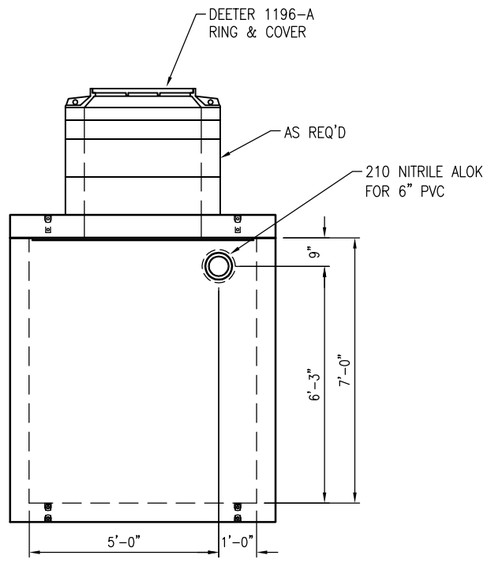
6x12 (7' Deep) Generic drawing.
The capacity of each, with 6" PVC, is 432 ft3 / 3230 gallons.



JOINT DETAIL



VIEW A-A
SCALE: 1/4" = 1'-0"



VIEW B-B
SCALE: 1/4" = 1'-0"

DESIGN NOTES

1. REBAR: ASTM A-615 GRADE 60
2. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c= 6000 psi (MIN)
3. CEMENT: ASTM C-150 SPECIFICATIONS
4. LOADS:
   A. AASHTO HS-20-44, W/ IMPACT
   B. SOIL WEIGHT = 120 PCF
   C. DEPTH OF OVERBURDEN 0' MIN, 5' MAX
   D. ASSUMED WATER TABLE: 10'
   E. EQUIV. FLUID PRESSURE = 40 PCF
   F. 80 PSF LATERAL LIVE LOAD SURCHARGE

WEIGHTS	
LID EACH	8,400 LBS
BASE SECTION EACH	26,800 LBS
TOTAL OF 2 VAULTS	70,400 LBS

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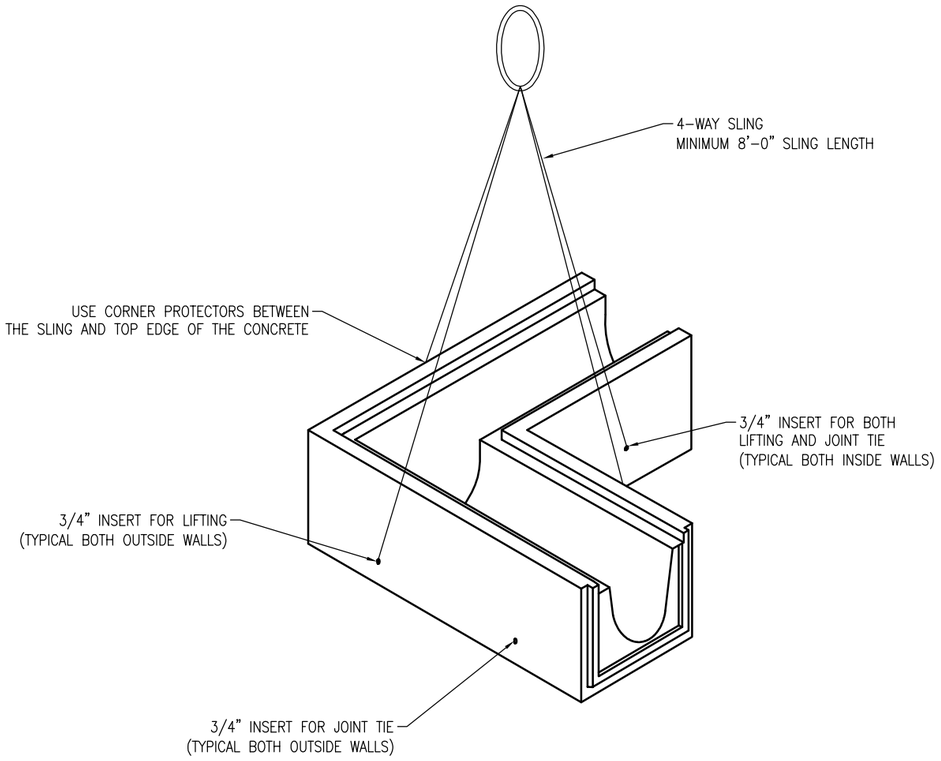
6X12 CONTAINMENT VAULTS - 2
GENERAL LAYOUT

CUSTOMER

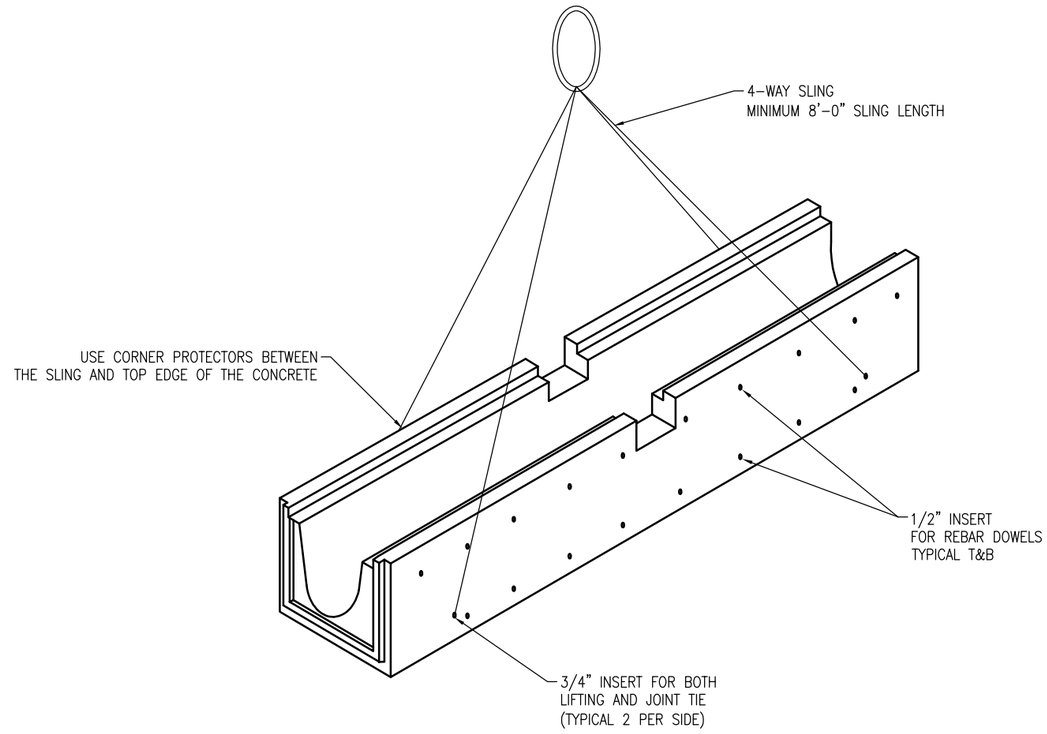
DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
6/2/14	JP	DLF			

DRAWING NUMBER	REVISION	SHEET
120-6X12-CONT-2	REV DATE	1 OF 1



CORNER SECTIONS

SCALE: 1/2" = 1'-0"



STRAIGHT SECTIONS

SCALE: 1/2" = 1'-0"

WEIGHTS	
10' SECTION	2,100 LBS
8' SECTION	1,680 LBS
CORNER SECTION	1,400 LBS

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CONTAINMENT GUTTER

LIFTING DIAGRAM

CONTAINMENT TRENCH

CUSTOMER

DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
11/20/13	JPC	DLF			

DRAWING NUMBER	REVISION	SHEET
120-GUTTER-LIFT	REV DATE	1 OF 1

Oldcastle Transformer Gutter Installation Instructions

Tools needed: 1-1/8” wrenches/sockets, pry bars, (4)-way lifting sling, 8”x16” patio blocks

Items supplied: stainless steel assembly hardware, oil resistant joint mastic, threaded rebar dowels, fiberglass grating, and “dog bone” lifting clutches (loaned)

1) Grade to approximately 2” below bottom of gutter, pull string lines square on inside lines of finished gutter installation, set a patio block at each joint location (plus one, or a half of one, on the outside of each of the corner sections) at correct grade, place and screed sand between to the top of the blocks:

Note: ideally the rebar mats for the transformer pad would *not* be in place prior to gutter installation to aid in ease of assembly of the components and hardware (see picture for step 6 below).

2) Install the stainless steel attachment brackets to the sections using (1)-bolt and (1)-washer (4 brackets per section):

3) Begin component installation, starting (and ending) with a corner section, using a (4)-way sling and the “dog bone” lifting clutches:

4) Following the layout drawing, install the sections using the mastic installed in the groove part of the joint prior to mating the sections while taking care that the assembly will be square and level:

5) Attach the sections together using the threaded rod, (2)-washers, and (2)-nuts each, one assembly on each side of the joint. (Note it will be helpful to leave a little gap until all pieces are in place and then tighten fully):

6) Install the ½" threaded rebar dowels (Note: pad rebar not in place here yet for easier installation):

7) Install the transformer pad rebar mats tying to threaded rebar (and pull irons if needed), pour the concrete, screed to the top of the precast gutter, and finish as detailed:

8) Install fiberglass grating per diagram.