

MATERIALS

Materials used in this work shall conform to ACI (American Concrete Institute)

CONCRETE

28 Day Compressive 5000 psi (Minimum)
Self-Consolidating per ACI 237R-07
ASTM C1611/C1611M-14 Standard Test Method for Slump Flow
Lifting Strength 2000 psi (Minimum)

REINFORCING STEEL

Reinforcing Bars shall conform to: ASTM A615, Grade 60
Reinforcing Mesh shall conform to: ASTM A1064, Grade 70
Reinforcing Cover: 1.5" minimum

DESIGN

Designed in accordance with the AASHTO Standard Specifications, 17th Edition for HS-20 Live Load.

FABRICATION

Fabrication shall meet the requirements of the following:

Fabrication Tolerances

1. Width: +1/4", -1/4"
2. Length: +1/4", -1/4"
3. Height: +1/4", -1/4"
4. Deviation from square: 1/4"
5. Member Thickness: +1/4", -1/4"

SHIPING AND HANDLING

The Precast Supplier and Contractor shall verify that the method of lifting does not overstress the precast concrete pieces in any way.

INSTALLATION SPECIFICATIONS

Storm Prism shall be installed in accordance with ASTM C-891-11 Standard Practice for Installation of Underground Precast Concrete Utility Structures.

The aggregate foundation minimum thickness per calculation is based on an underlying soil bearing pressure of 2000psi. The bearing pressure of the underlying soil must be verified by the geotechnical engineer prior to placing aggregate sub base.

The aggregate base material shall consist of 3/4" angular stone. The stone shall be well compacted and seated using a vibratory roller.

The aggregate shall be graded to a tolerance of 1/4" of the plan elevation.

The aggregate shall extend beyond the Storm Prism perimeter by at least 18".

The Storm Prism modules shall be placed on line and grade per the site plans. Space between modules shall be 1/2" plus / minus 1/2"

Storm Prism modules are designed to be soil tight. All exterior joints between adjacent modules shall be sealed using a preformed, cold applied, self-adhering, polymer wrap conforming to: ASTM E-1745, C-877, C-990 Specifications, and AASHTO M198 Type B.

Wrap shall be applied per manufacture's recommendations.

BACKFILL

Fill placed around the Storm Prism Modules shall be placed evenly around the entire system in 6" lifts.

Backfill shall be mechanically compacted (no jetting).

Special care should be taken when compacting adjacent to or near the tape seal not to disrupt the seal.

Perimeter backfill shall be done in accordance with ASTM C1675. Native material can be used if the material meets the standard as required in section 10.2 and 11.

Fill placement over top of Storm Prism shall be done in accordance with ASTM C1675. Fill placement shall be done in 6" lifts. Fill material not to exceed 120 PCF. At no time shall machinery or vehicles exceeding HS-20 travel over the Storm Prism.

REVISIONS:	No.	DATE	DESCRIPTION
	1	8/6/17	REVISED WATER LEVEL
	2	8/6/17	1-3
	3	8/6/17	1-3
			REVISED 12" inlet to 18"

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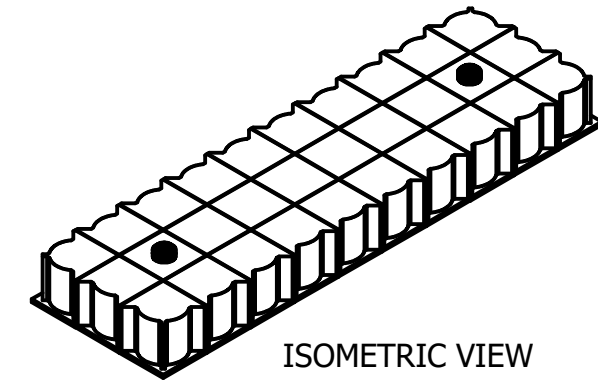
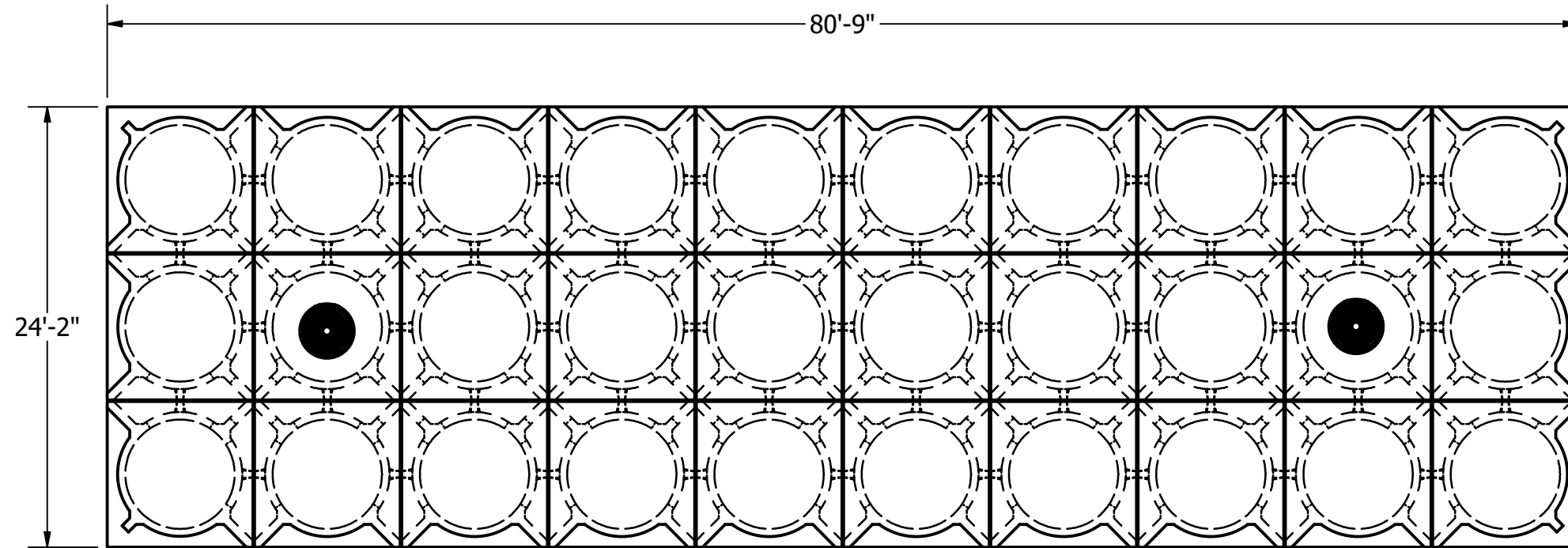
TITLE:
SYSTEM 1,

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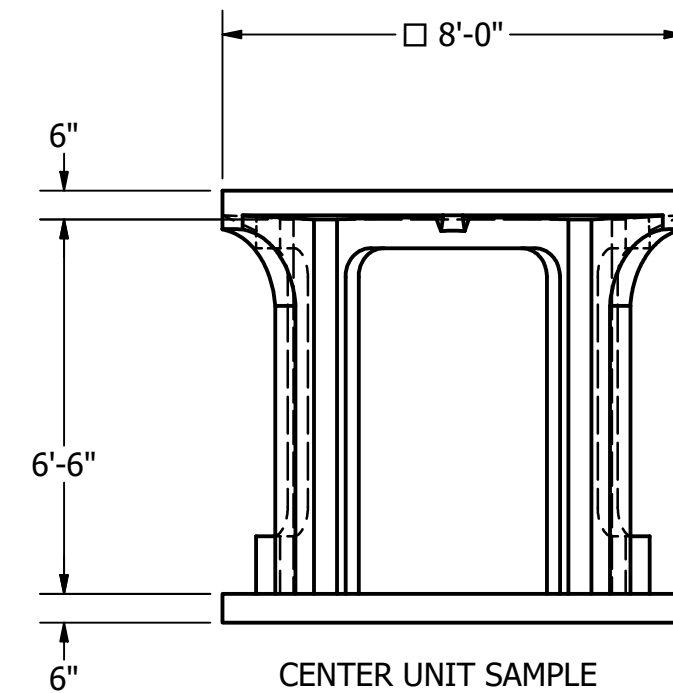
DATE
8/6/2018

SHEET
1 OF 3

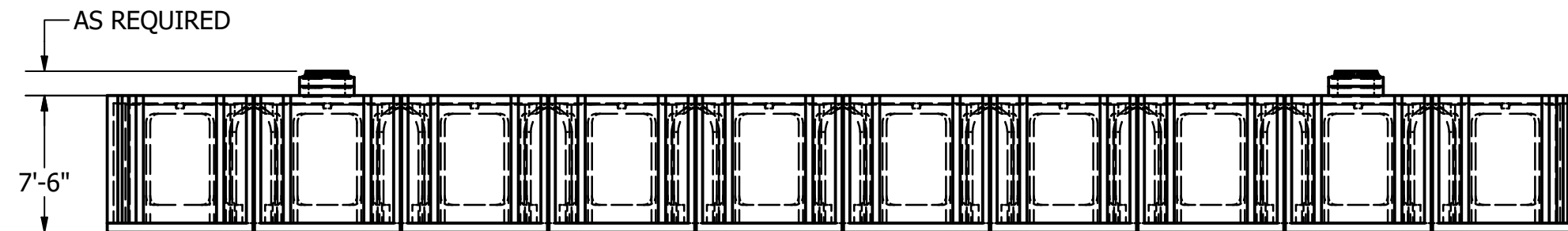
LOCATION:



ISOMETRIC VIEW



CENTER UNIT SAMPLE



MH ACCESS AND PIPE PENETRATION,
SIZE AND LOCATION TBD

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DESIGN
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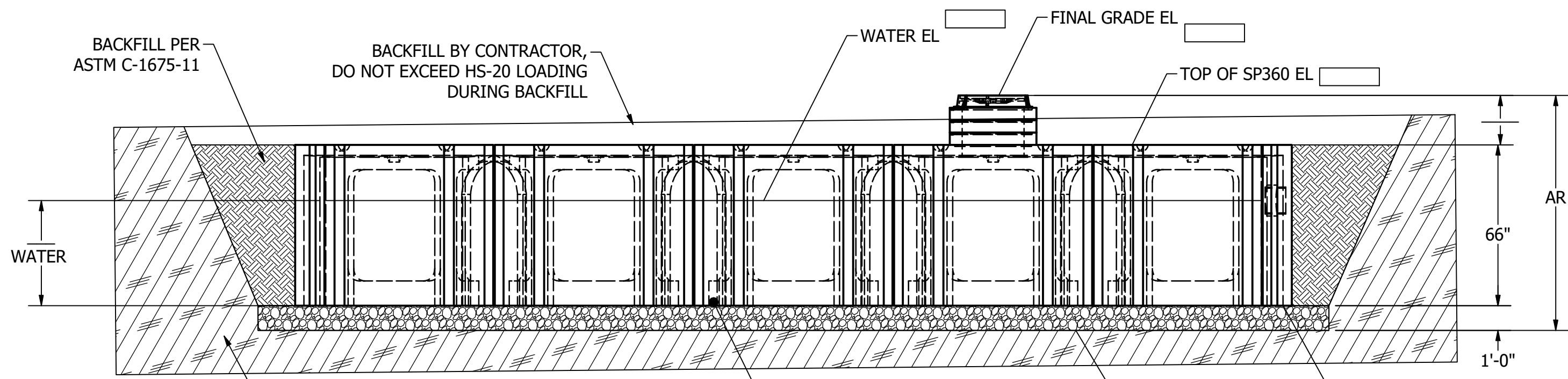
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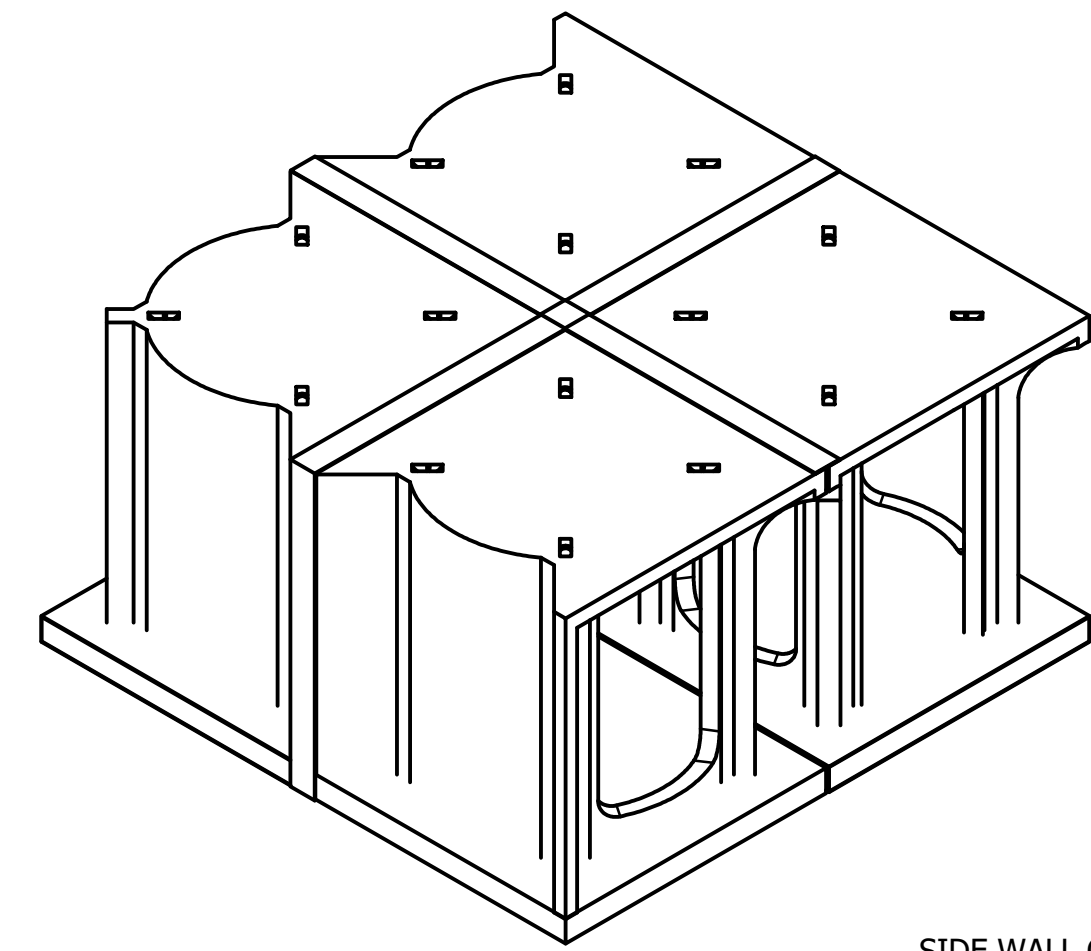
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SHEET
2 OF 3

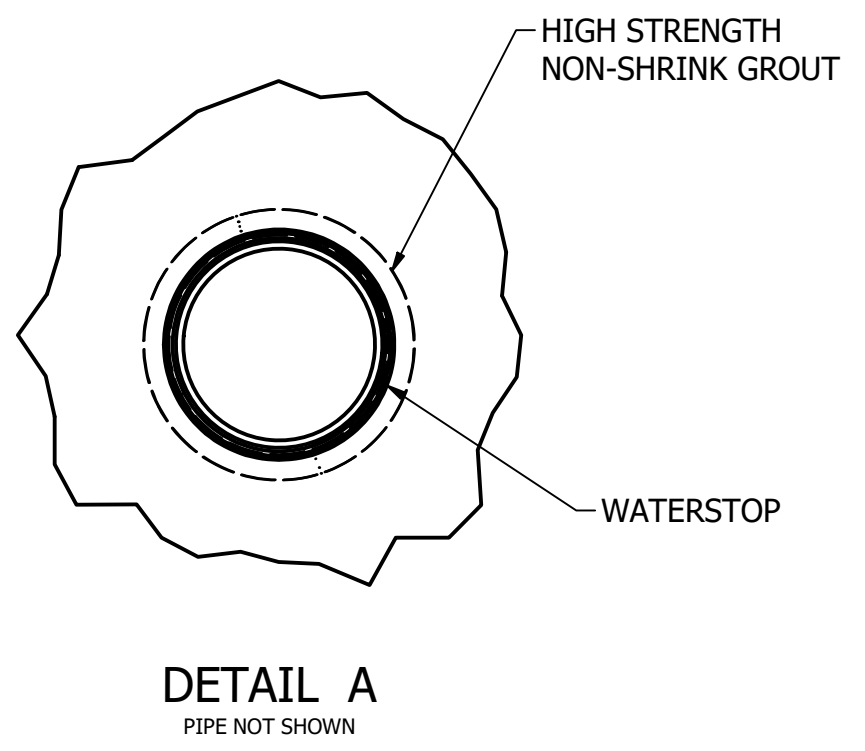
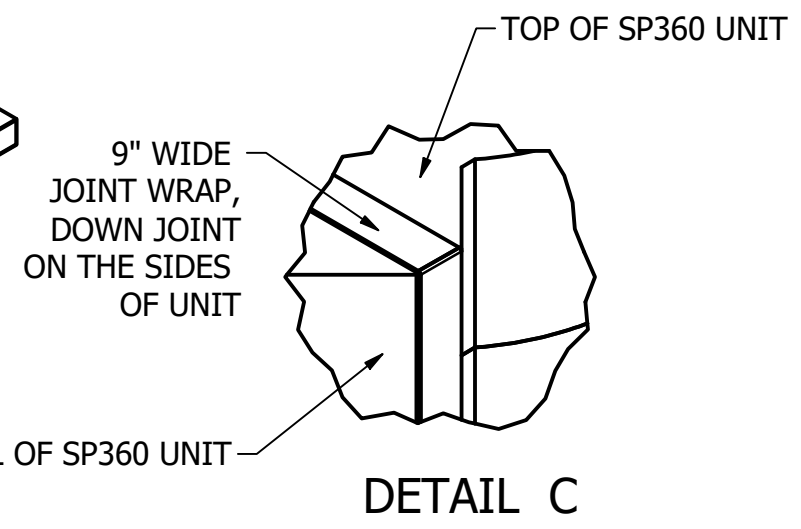
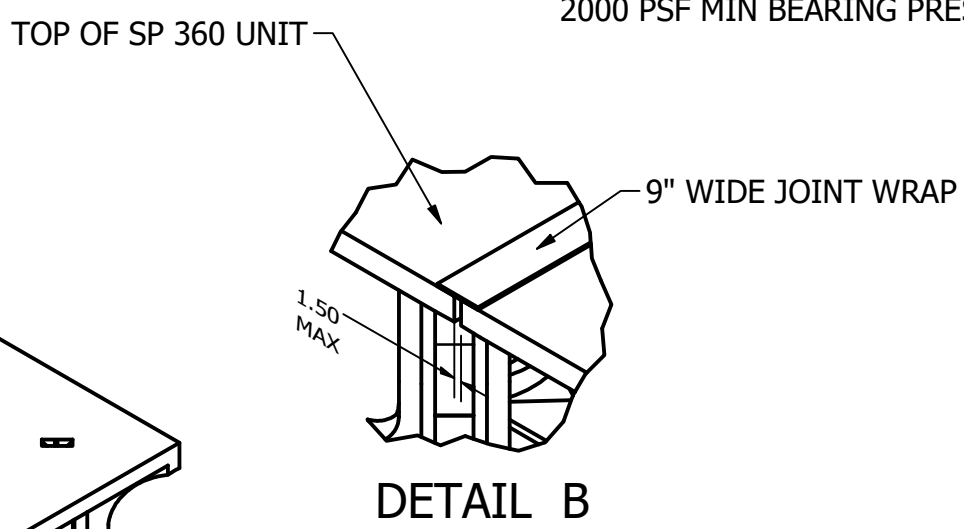
LOCATION:



PROFILE DETAIL



EXTERIOR WRAP DETAIL



REVISIONS:	No.	DATE	DESCRIPTION
	3	7/26/17	REVISED 12" Inlet to 18"

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3 OF 3

LOCATION: