

STORM/SANITARY MANHOLES

Residential & Commercial



Manholes are designed to the latest ASTM specifications. Our manholes, both storm and sanitary, can have holes cast in or bored to your piping configurations.

Sanitary manholes can be ordered with cast in flow channels.

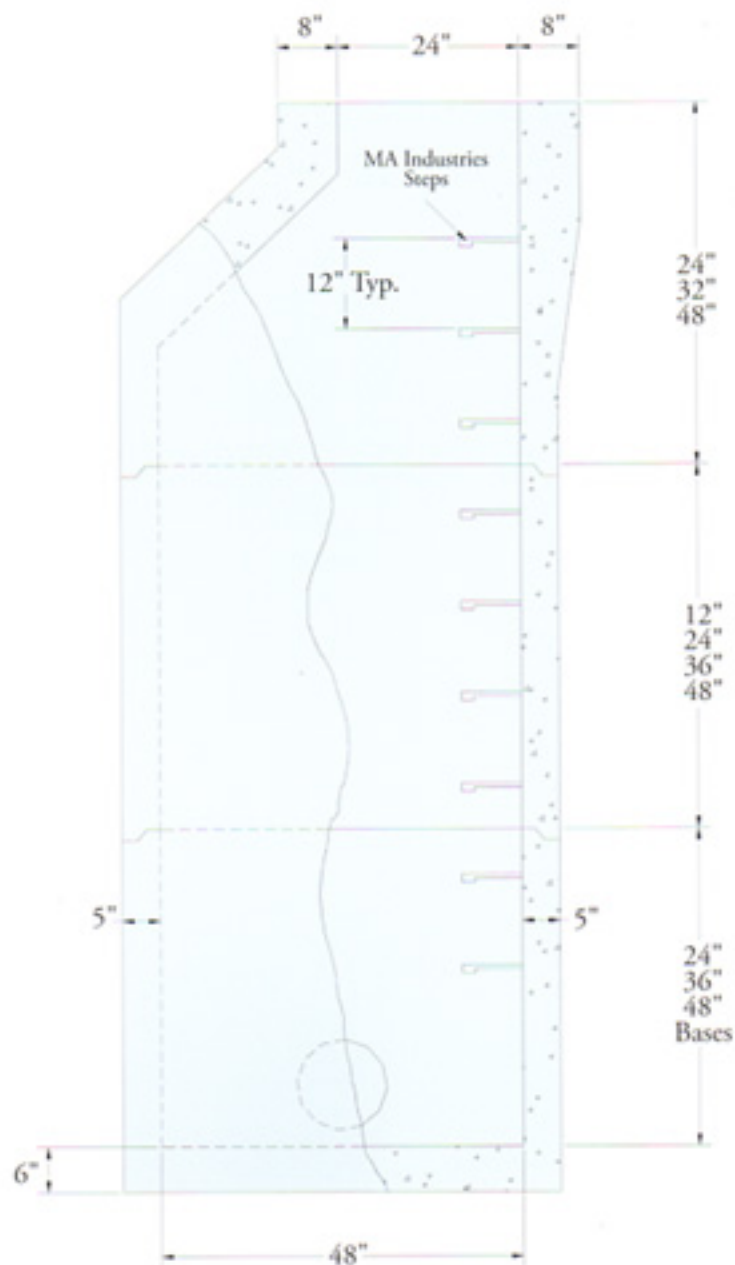
SCIOTO VALLEY PRECAST

American Made Products From A Family Owned Company

Phone: 740-663-2659 Fax: 740-663-2017

www.sciotovalleyprecast.com

48 INCH STANDARD MANHOLES



NOTES

Joint Gasket shall be by Hamilton-Kent Rubber Gasket

* Joint Sealant – Conesal by Concrete Sealants

* Pipe Gasket to be A-Lok G3 Boot

* Precast Flow Channels available

* Inside Drop by Recliner Available

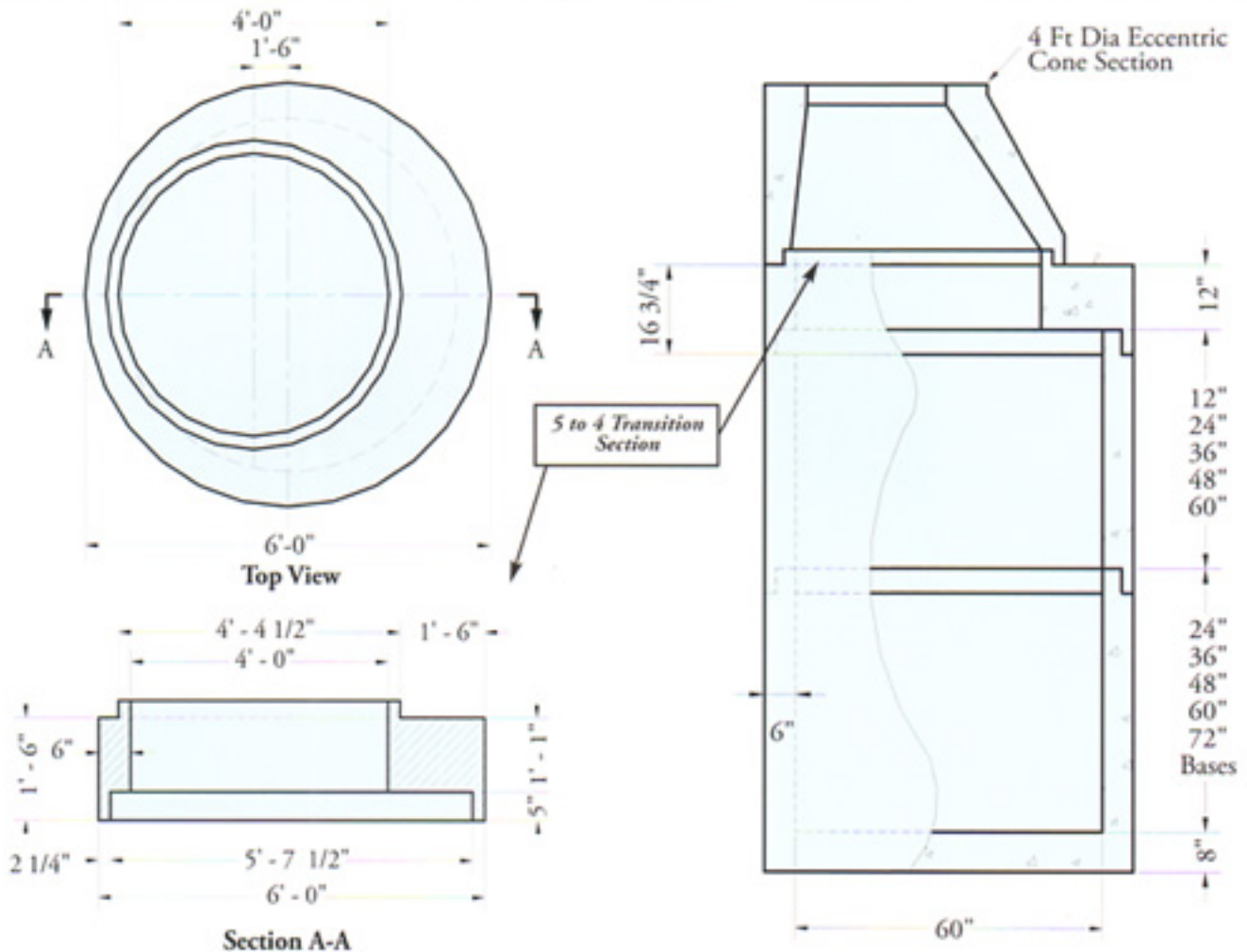
SPECIFICATIONS

** Reinforcing shall conform to A.S.T.M. Designations C-478 Precast Reinforced, Concrete Sections

* Joints to conform to AASHTO M198
A) Rubber Gasket Or B) Flexible Plastic Gaskets

* Steps shall be MA Industries PS1-PF; Install 12" on centers

60 INCH STANDARD MANHOLES



NOTES

Joint Gasket shall be by Hamilton-Kent Rubber Gasket

* Joint Sealant - Con seal by Concrete Sealants

* Pipe Gasket to be A-Lok G3 Boot

* Precast Flow Channels available

* Inside Drop by Recliner Available

SPECIFICATIONS

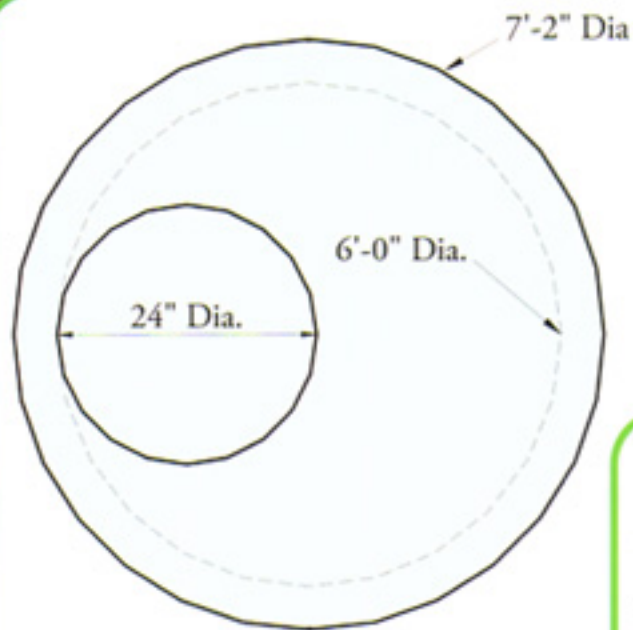
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72 INCH STANDARD MANHOLES



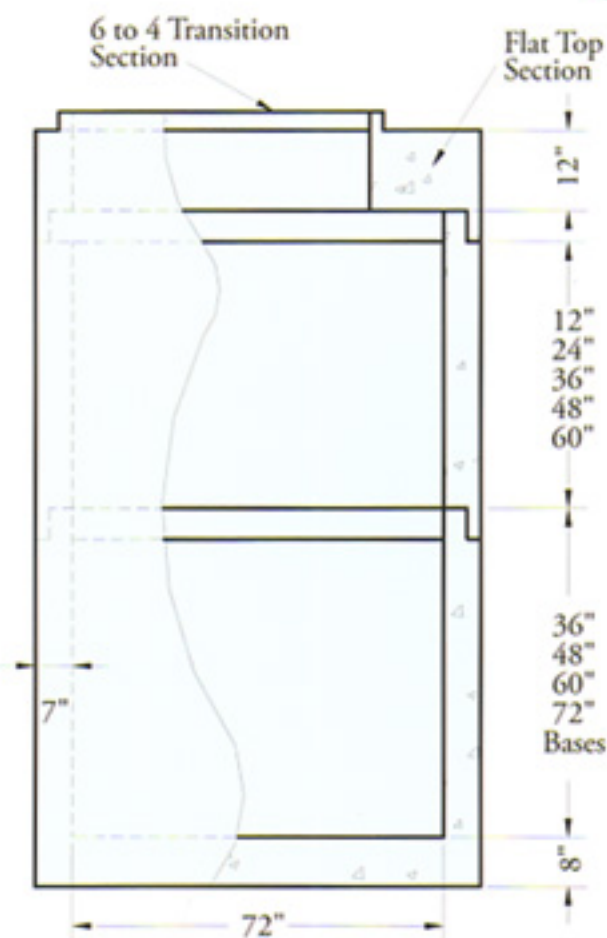
Top View Transition Section

NOTES

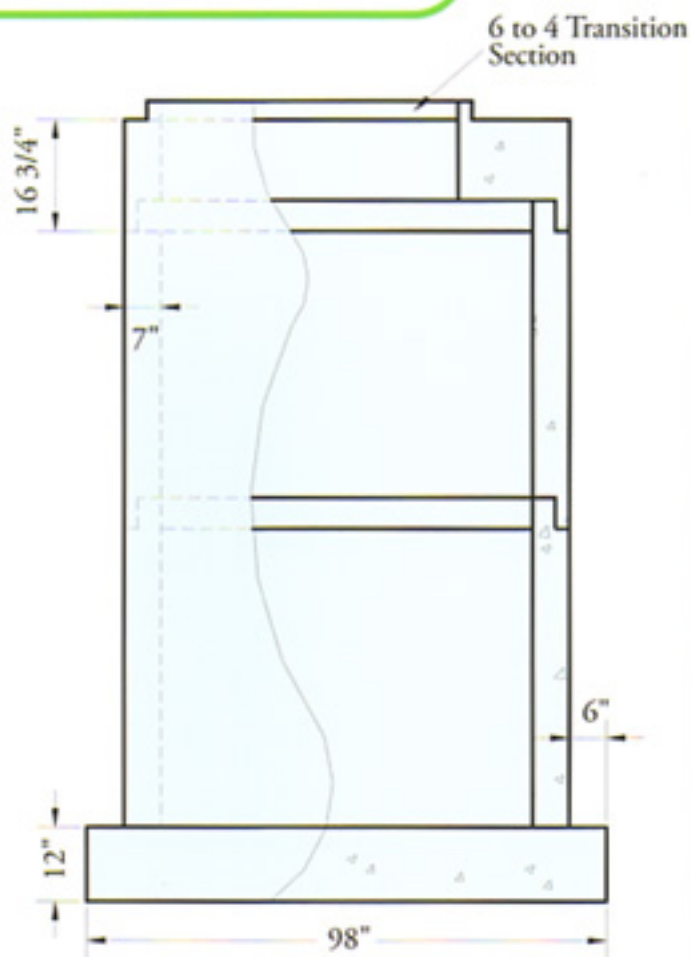
- *Joint Gasket shall be by Hamilton-Kent Rubber Gasket
- *Joint Sealant-Conseal by Concrete Sealants
- *Pipe Gasket to be A-Lok G3 Boot.
- *Precast Flow Channel Available.
- *Inside Drop by Recliner Available.

SPECIFICATIONS

- *Reinforcing shall conform to A.S.T.M. Designations C-478 Precast Reinforced, Concrete Sections
- *Joints to conform to AASHTO M198:
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- *Steps shall be MA Industries PSI-PF; Install 12" on centers.

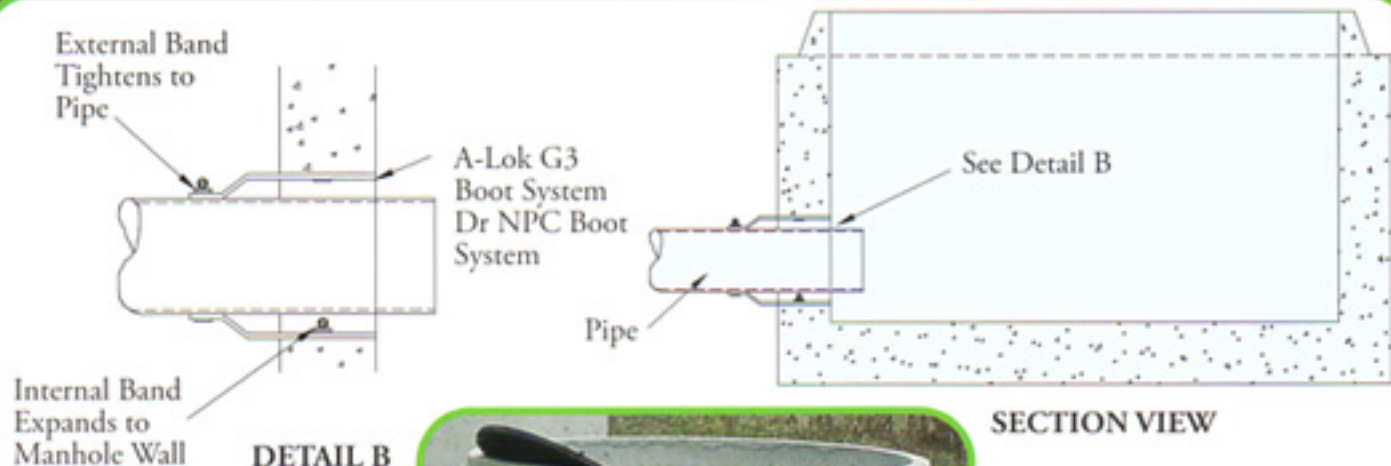


Standard Base



Floatation Base

G3 BOOT SYSTEM



SECTION VIEW

A-LOK G3 Boot System Specifications

Requirements - Meets or Exceeds ASTM C-923 Latest Revision

Diameter Ranges - 6" thru 36" Pipe O.D.

Gasket Material - Isoprene Rubber

Durability - Not affected by Sulfuric or Hydrochloric Acids

G3 Boot System
Pipe to Manhole Connector for Sanitary or Stormwater Systems

Simple • Wrinkle-Free • Revolutionary • Micro-Adjustable

The Revolutionary G3 Band makes installation into a structure simple and fast. Just install the connector perpendicular to the hole and tighten the stainless steel nut. As the nut is tightened, a compressive force is applied to the G3 band ends, causing them to slide past each other into straight alignment. This movement increases the bands overall circumference and compresses the connector against the opening in the structure wall, creating a watertight seal. To insure the best seal, place the bolt in the 12 o'clock position of the hole opening and tighten the nut to the specified torque value.

G3 Boot System can withstand 15 degrees of omnidirectional deflection and $\frac{1}{8}$ " of centerline offset while still maintaining a watertight connection. This flexibility eliminates infiltration due to pipe shear caused by settlement or ground movement.

The inner O-ring design of the G3 Connector eliminates rubber wrinkling, compensates for pipe irregularity and wall thickness to insure a watertight seal.



G3 BOOT SYSTEM

INSTALLATION INSTRUCTIONS



1) Position Boot & Band in hole, then tighten with torque wrench to 25 ft/ lbs..



2) Insert pipe into rolled back connector. To install inside structure affix clamp behind O-ring Torque to 60 in. / lbs. and backfill



3) For outside mount: pull pipe back and affix clamp directly behind O-Ring and torque to 60 in./lbs. and backfill

OR

TYLOX SUPERSEAL GASKETS

TSS Series

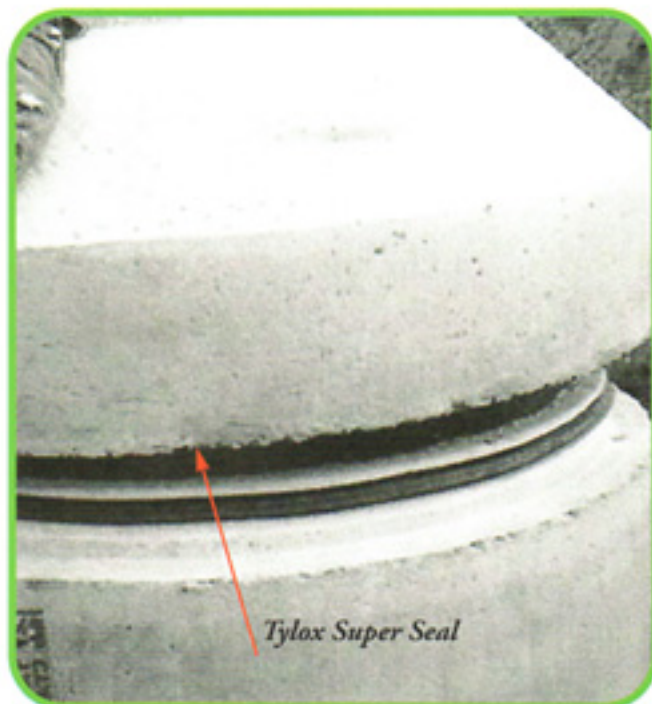
Tylox SuperSeal™ Pre-lubricated Profile Gaskets for Single Offset Joints on Concrete Manhole.

*Say good-bye to the lube bucket and brush.
Say hello to fast, clean, simple installation.*

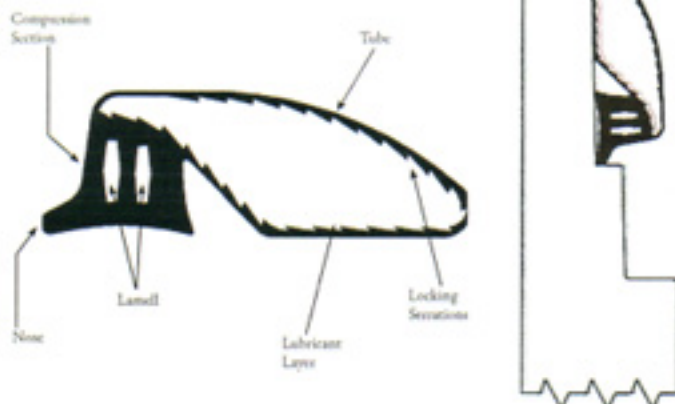
The unique design of the Tylox SuperSeal™ manhole gasket is bringing a cost-saving revolution to the field of concrete manhole gasketing and installation.

- **Requires no field lubrication.** The Tylox SuperSeal™ gasket has a layer of silicone lubricant installed on the inner surface of the tube, during the manufacturing process: saving you time and money, on the job-site.
- **Elimination of un-safe installation practices.** Since the Tylox SuperSeal™ manhole gasket requires no lubrication, the unsafe practice of standing beneath a suspended riser section, in order to lubricate the bell I.D., is no longer required.
- **Self-Contained Lubricant.** Sealed within the tube, the lubricant is impervious to mud, dirt and debris. If you drop it in the trench, simply wipe the gasket surface clean and you're ready to install. No special handling is required.
- **No equalization required.** Due to the reduced gasket stretch requirement of the unique lamelle rolling-tube design, the Tylox SuperSeal™ gasket requires no equalization after installation. A quick and easy installation means you save even more time and money.
- **No gasket "roll" or "twist".** Another benefit of the unique lamelle/rolling-tube design is the drastic reduction in insertion forces, virtually eliminating the gasket "roll" and "twist" associated with o-ring and standard profile gaskets.
- **Self-Centering.** The manhole bell is self-centered, on the spigot, due to the forces generated as the tube rolls into the annular space during the homing process.

Tylox SuperSeal™ gaskets are available for all common combinations of annular and total annular spaces, and can be manufactured to suit any manhole size.



Tylox SuperSeal™ manhole gaskets are available in a variety of rubber compounds, to meet, or exceed, the material requirements of ASTM C443, ASTM C1619, California Green book, and CSA A-257.



***Making Infrastructure Water-Tight, TODAY!
For a Greener, Sustainable Tomorrow!***

MANHOLE FLOW CHANNELS

8 inch and 12 inch Cast in Manhole Flow Channels

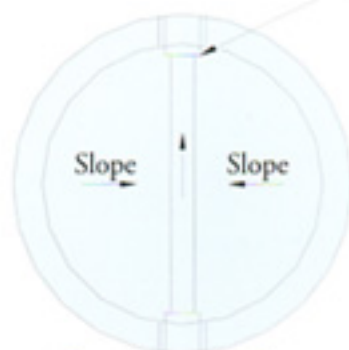


Typical 3 Way Flow

Flow Line to be fine brush finished



Typical 4 Way Flow



Typical Straight Flow

1 1/2" Wide x 1" Deep Slot for Pipe Clearance



Typical Curve Flow

Precast Monolithic Base

Holes placed as Required



Section View

Precast Invert as required



Specifications

Concrete Strength - 4500 PSI
(3.10 x 10 <=> 8 Pa) @ 28 days

Invert Depth - 1/2 Depth of
Pipe

Grade of Fall - Per Job
Requirements

Bench - 1" max. above center
line of highest inlet varying
invert depth. Alternative Bench.



INSIDE DROP SYSTEM



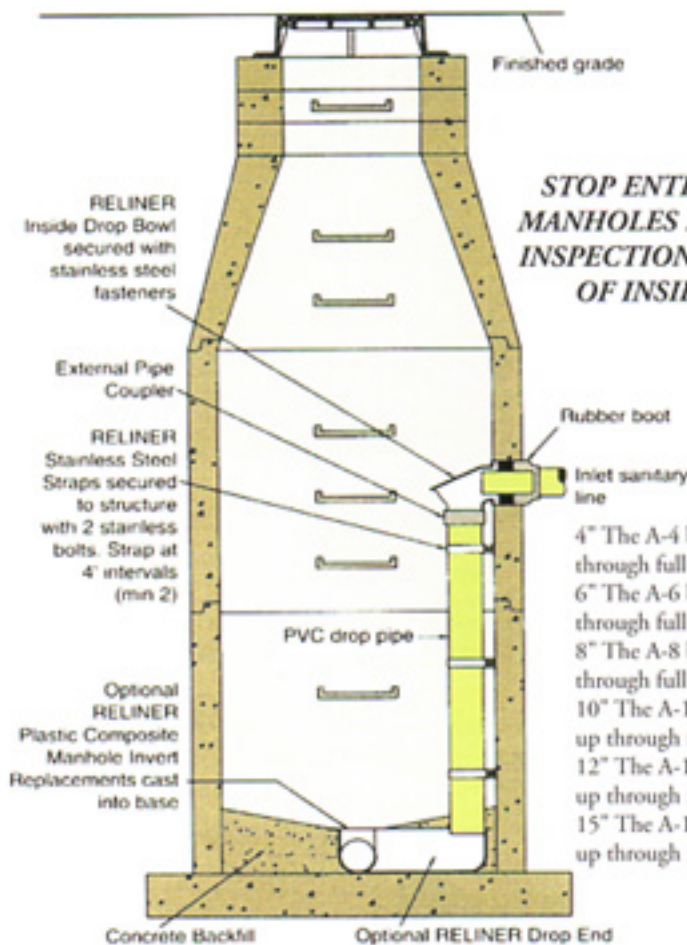
Inside Drop Bowl



Inside Drop Bowl with Hood



Adjustable Stainless Pipe Brackets



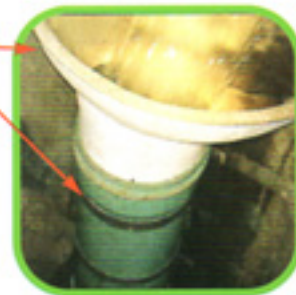
**STOP ENTERING YOUR
MANHOLES FOR ROUTINE
INSPECTION & CLEANING
OF INSIDE DROPS**

4" The A-4 bowl will service up through full 6" inlets.
6" The A-6 bowl will service up through full 8" inlets.
8" The A-8 bowl will service up through full 10" inlets.
10" The A-10 bowl will service up through full 12" inlets.
12" The A-12 bowl will service up through full 20" inlets.
15" The A-15 bowl will service up through full 24" inlets.



Drop Bowl Installed with
optional reliner channels

Custom 48/36" Drop
Bowl with 18" Brackets



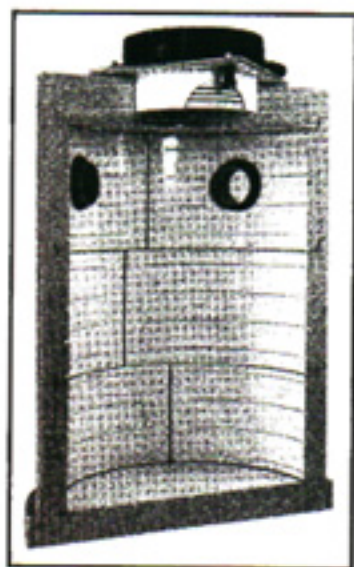
Uncontrolled Drop:
Solids Separated
Solids & Liquids Not Carried Away
H₂S Emissions High
High Maintenance
Access Difficult (multiple inlets must be
plugged for work or access to the area below)



Controlled Drop with reliner inside drop bowl
Easy inspection and cleaning from above
Erosion of structure eliminated (walls & bench)
H₂S Emissions reduced
Service from street eliminates confined space entry
Use in wet wells to reduce pump cavitations
Several sizes in stock; custom sizes available
Eliminate troublesome outside drops



DURA PLATE 100 LINER SYSTEM



Part 1 - General

The Dura Plate 100 Liner is a corrosion protection system for concrete structures used in wastewater and light industrial application. It is a sectional design with compression joints providing easy installation without the need for welding.

Part 2 - Material

The liner and seals are all formed from materials selected for their chemical resistance properties. The main panel sections are formed from a polymer blend, while the vertical panel joints are sealed with an EPDM rubber, and the horizontal structure joints with an approved preformed butyl sealant.

Part 3 - Advantages

The Dura Plate 100 Liner System was designed on a three point design philosophy.

1) The system will provide corrosion protection to the concrete substrate, by shielding it with a protective barrier of inert material embedded to the inside wall of the structure. Each panel features a minimum 1/2" return on each edge to ensure proper sealing.

2) The design will minimize the freight cost by using a sectional design that will

allow the pieces to be nested within each other while being shipped to the precaster.

3) The design will provide easy installation without the need for welding sections together, but still providing complete corrosion protection to the structure.

Part 4 - Performance

The Dura Plate 100 Liner meets or exceeds all material and test requirements as outlined by the manufacturer.

Chemical Resistant:

Chemical	Solution
Sulfuric Acid [H_2SO_4]	20%
Sodium Hydroxide [NaOH]	5%
Ammonium Hydroxide [NH_4OH]	5%
Nitric Acid [HNO_3]	1%
Ferric Chloride [$FeCl_3$]	1%
Soap	0.1%
Detergent	0.1%

Physical Properties of Liner Panel:

Test	ASTM Method	Minimum Value
Tensile	D-638	6,000 psi
Elongation	D-638	2%
Tensile		
Modulus	D-638	300,000 psi
Flexural		
Strength	D-790	11,000 psi
Flexural		
Modulus	D-790	360,000 psi
Tensile		
Impact	D-1822	30 ft-lbs

Part 5 - Specifications

A protective liner shall be used whenever a precast concrete manhole or structure is used in a sanitary or light industrial sewer system in which the potential for corrosive attack to the concrete substrate exists.

The liner shall be the Dura Plate 100 Liner as manufactured by A-LOK® Products, Inc., Tullytown, PA or approved equal.

The design of the liner shall provide a corrosion protective barrier permanently

embedded to the inside wall of the structure. The liner system shall assure that:

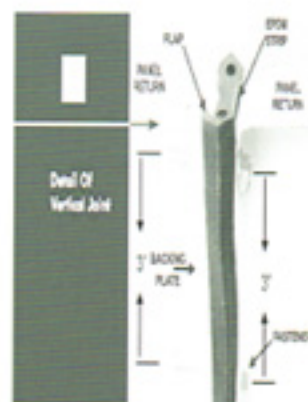
1) The liner shall become an integrally part of the structure wall by casting the liner with the structure during the manufacturing process. The liner shall also be capable of being cast into a round structure by curving the liner in a manner that allows it to remain permanently attached to the inside structure wall.

2) Vertical joints between the liner sections shall be made by the mechanical compression of an EPDM rubber strip between the returns of the two panels with self tapping screws spaced every 3 inches apart.

3) Horizontal joints between structure sections shall be sealed with an approved butyl strip compressed between the sections in a manner as recommended by the manufacturer.

4) The liner system shall be composed from materials that are corrosion resistant by nature and conforms to the physical and chemical requirements as determined by the manufacturer.

5) The liner shall be sized specifically for the type of structure being used and shall be installed in accordance with the recommendations of the manufacturer.



SANITARY AND STORM WATER OPTIONS

Scioto Valley Precast Carries an Inventory of Manhole Castings



Inventory

Eccentric Cones and Flat Top lids Available for Manholes



Eccentric Cone

We Manufacture Various Risers, Grade Rings and Lids



Grade Rings



Seals and Casting



Riser



Vinyl Lined Lift Stations

48-60-72 INCH DIAMETER LIFT STATIONS

Septic System

Round Lift Station



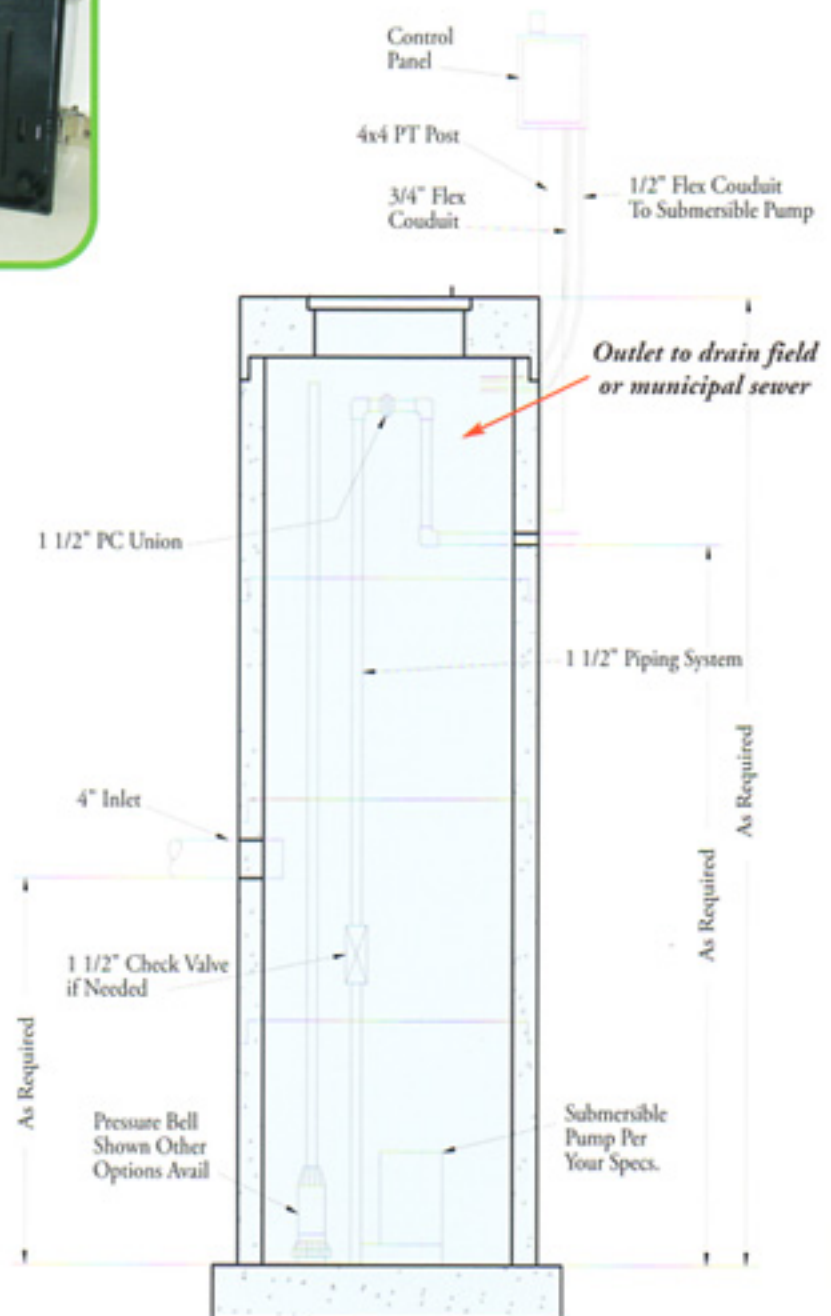
Control Panel



Vacuum Tubing from Pressure Bell to Control Panel



Pressure Bell



LIFT STATION/DOSING TANK



Control Panel

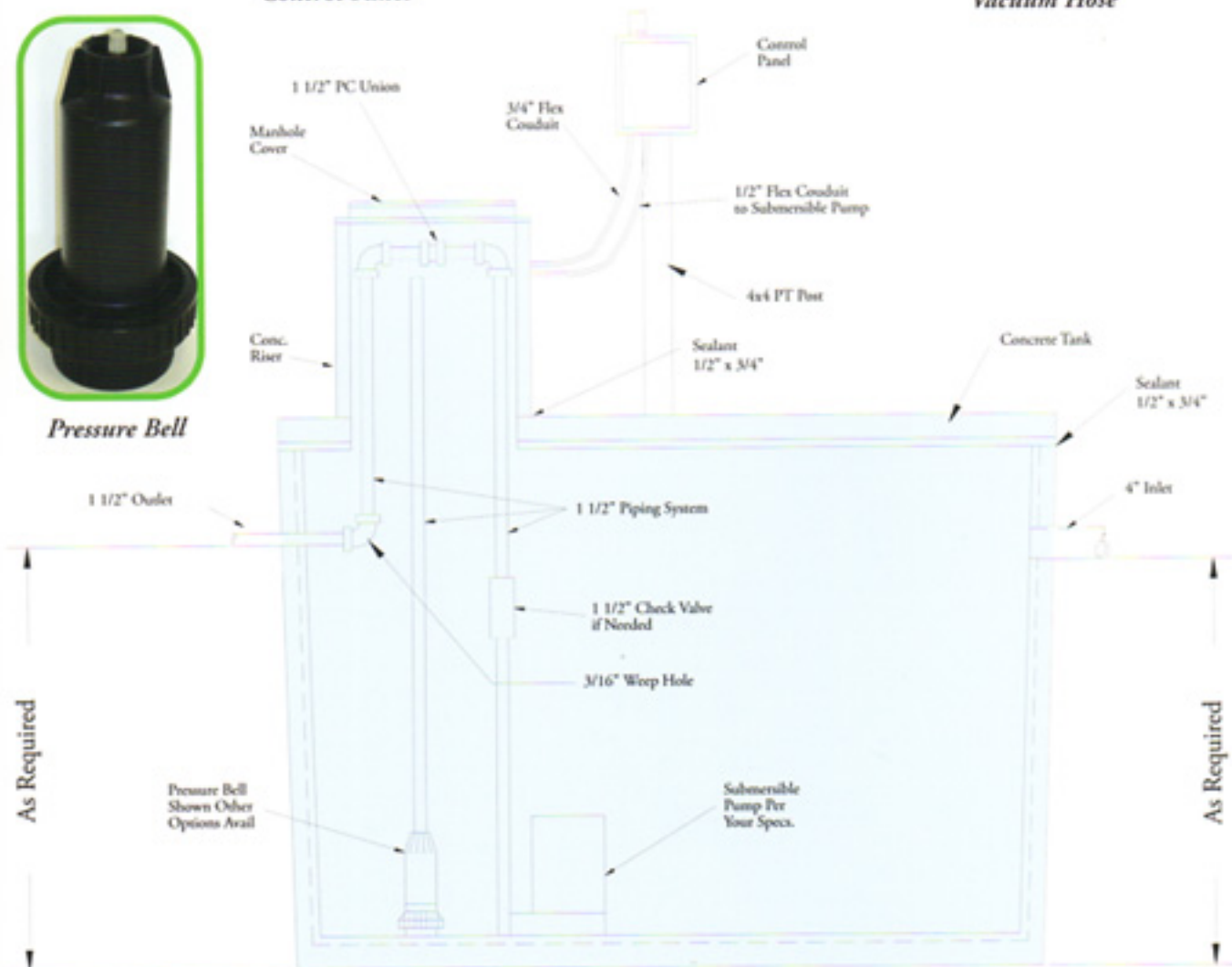
Our Residential lift stations and Dosing Tanks are delivered to your site fully plumbed. All that is needed is power run to the tank and our certified electrician will wire the system ready to run.



Vacuum Hose



Pressure Bell



48 INCH DRYWELLS



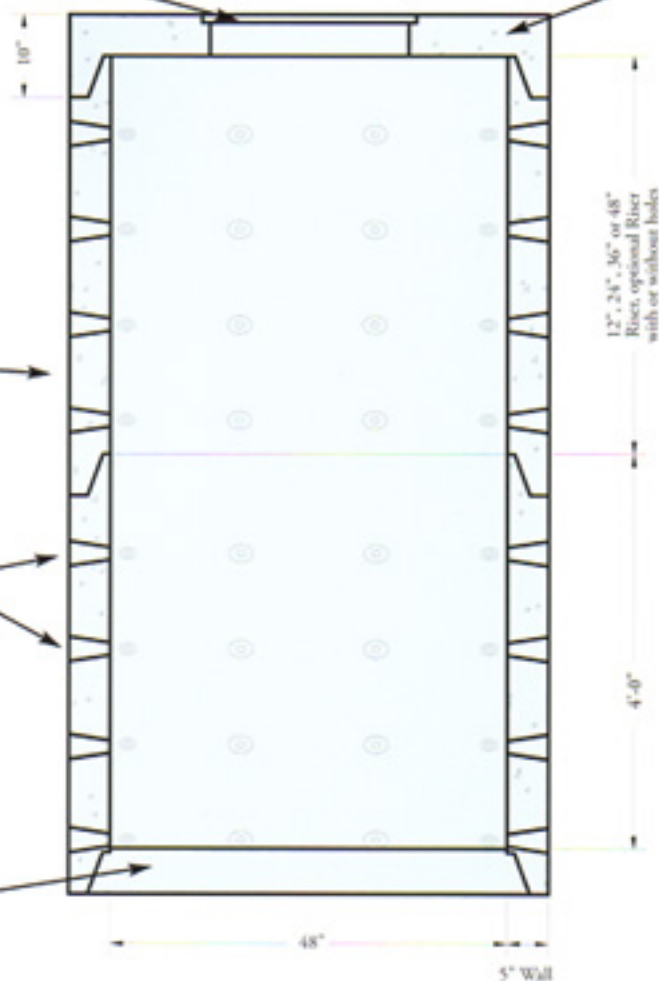
Recess for Manhole Grate

Flat Top Drywall and
Manhole Lid

Drywell Sections may be
stacked to achieve depth
needed

4 rows with 8 plugs
per row

6" poured concrete
bottom, optional

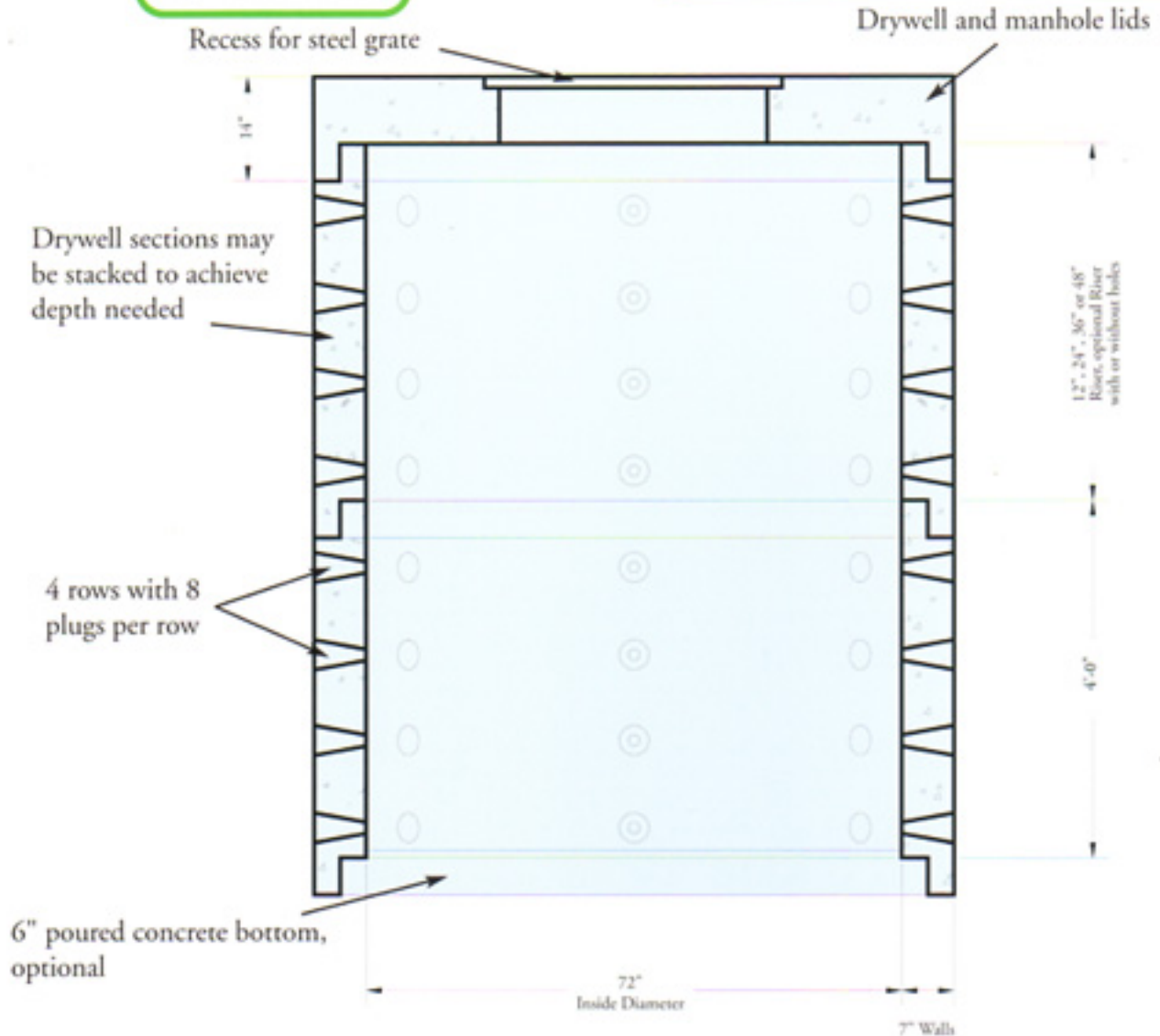


Traffic Rated
Drywells Available

72 INCH DRYWELLS



Traffic Rated
Drywells Available



DRYWELL OPTIONS

5250 Catch Basin Inlet

Heavy Duty

"DUMP NO WASTE!" lettering
and fish image.

Approx. 220 sq. in. of opening

300 lb. (138kg) total weight

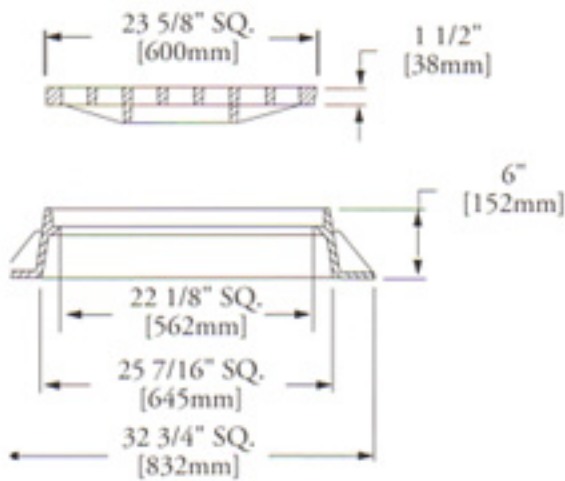
Options:

8" Ht. Frame - 5235

4" Ht. Frame - V-5622

ADA Grate - V-5622-80

Solid Cover - V-6622



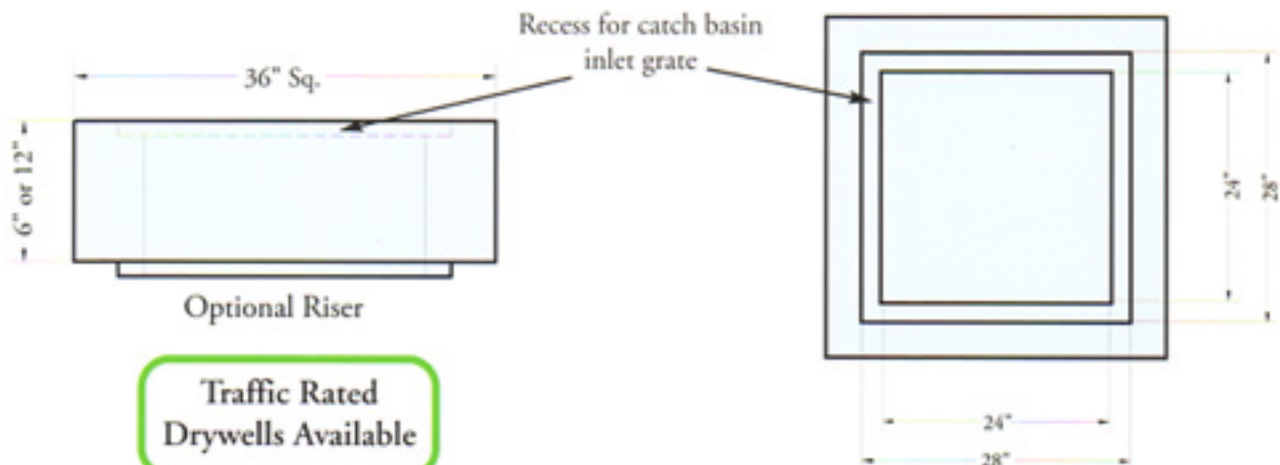
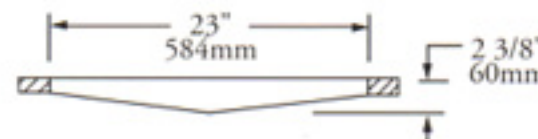
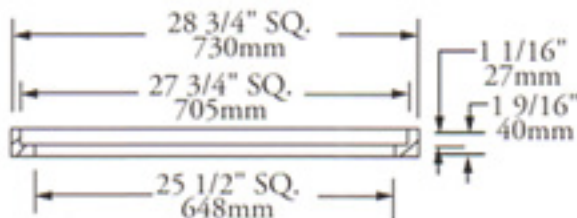
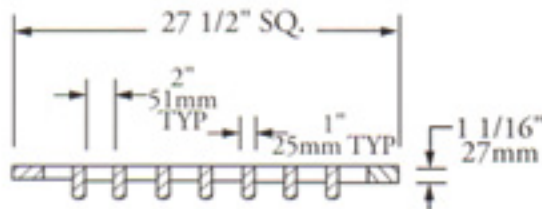
5110 Catch Basin Inlet

TYPE M3 Heavy Duty

Sinusoidal Grate

Approx. 300 sq. in. of opening

"DUMP NO WASTE" Lettering



Traffic Rated
Drywells Available

OTHER PRODUCTS AVAILABLE



*Septic Systems/
Aeration Systems*



Catch Basins



Highway Dividers



Split Box Culverts



*Water Storage
Tanks (Cisterns)*



*Lift Stations/
Dosing Tanks*



Precast Steps



Parking Blocks



Lagging



Headwalls



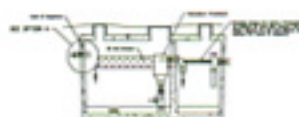
*Stock Watering
Tanks*



*Bridge/Retaining
Wall Blocks*



Bridges



*Oil & Grease
Interceptors*



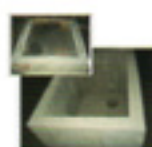
Chlorinators



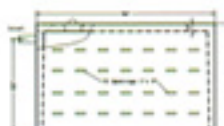
*Distribution &
Drop Boxes*



*Containment
Tanks*



*Utility Vaults
(Electric & Water)*



Other Drywells



Erosion Protection

SCIOTO VALLEY PRECAST YOUR ONE STOP PRECAST CENTER

*Septic Tanks 1000, 1500,
2000, 3000, 4000, 5000
Gallon*

*Aeration Systems
Residential/Commercial*

*Quanics Filter Systems
Residential/Commercial*

*Lift Stations / Dosing Tanks
Pumps
Control Panels*

*MISC. Septic
System Products*

*Risers/Lids -
Concrete & Plastic*

*Distribution Boxes -
Concrete & Plastic*

*Drop Boxes -
Concrete & Plastic*

*Flow Dividers
Chlorinators*

*UV Lamps
EZflow Gravel less Leaching*

*Cisterns 1700 Gallon to
5000 Gallon Tanks*

*Cistern Filters
Pond Filters*

*Manholes
Catch Basins*

*Stock Watering Tanks
Precast Steps*

*Parking Blocks
Retaining Wall Blocks*

*Lagging
Headwalls*

Bridges

Box Culverts

*Oil & Grease Interceptors
Utility Vaults - Electric &
Water*

*Fuel Containment Tanks
Drywells - Square/Round -
Also Traffic Rated*

*Floor Drains
Highway Dividers*

*Erosion Protection
Special Project Design and
Fabrication*

Commercial Systems Available

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American Made Products from a Family Owned Company

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