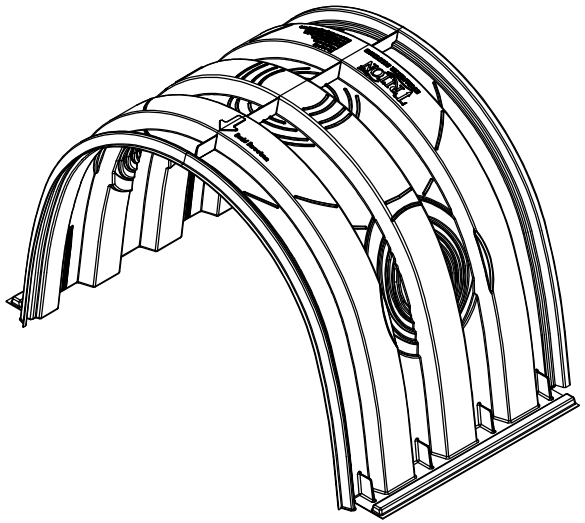
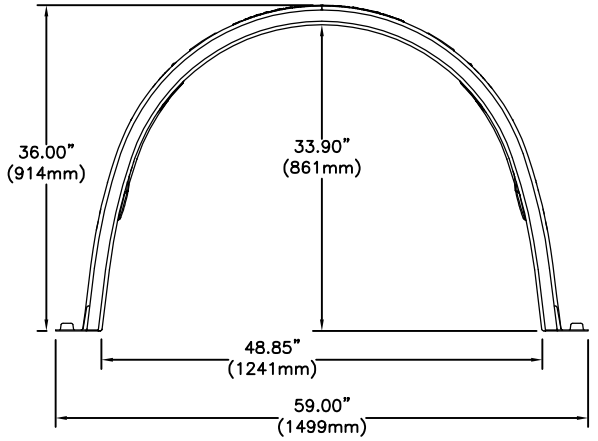
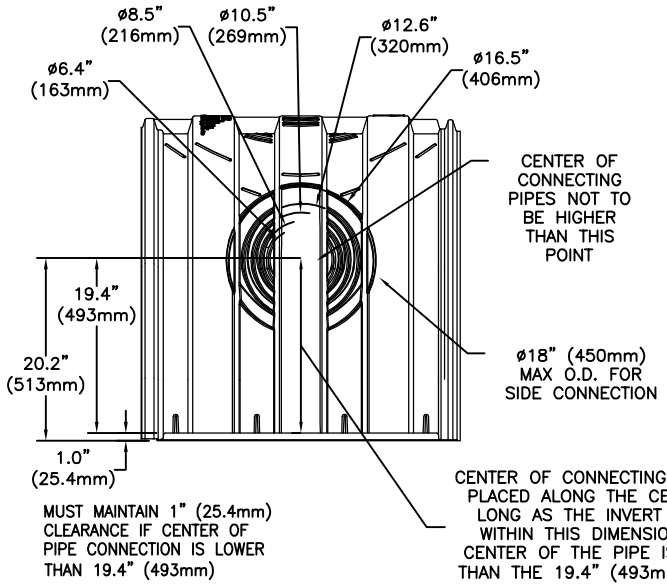
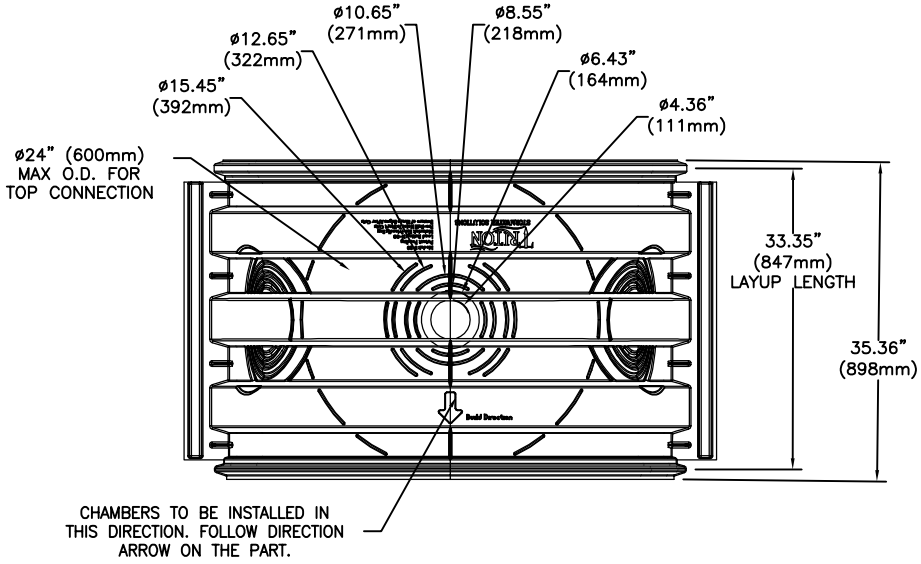


S-29 CHAMBER SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	33.35" X 59.00" X 36.00" (847mm X 1499mm X 914mm)
BARE CHAMBER STORAGE	27.35 CUBIC FEET (0.774 CUBIC METERS)
*MIN INSTALLED STORAGE	41.05 CUBIC FEET (1.162 CUBIC METERS)
CHAMBER WEIGHT	32 lbs (14.515 kg)
STORAGE PER LINEAR FOOT WITHOUT STONE	9.84 CUBIC FEET (0.279 CUBIC METERS)
STORAGE PER LINEAR FOOT WITH STONE	14.77 CUBIC FEET (0.418 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 7.5" (191mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	

NOTE: S-29 CHAMBER DETAILS TESTED AND RATED FOR H-30 LOAD CONDITIONS WITH 18" (457mm) OF COVER AND NO PAVEMENT.







CONCEPTUAL PLAN DISCLAIMER

THIS GENERIC DETAIL DOES NOT ENCOMPASS THE SIZING, FIT, AND APPLICABILITY OF THE TRITON CHAMBER SYSTEM FOR THIS SPECIFIC PROJECT. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGUALTIONS. TRITON PRODUCTS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH TRITON'S MINIMUM REQUIREMENTS. TRITON STORMWATER SOLUTIONS DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGN ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.

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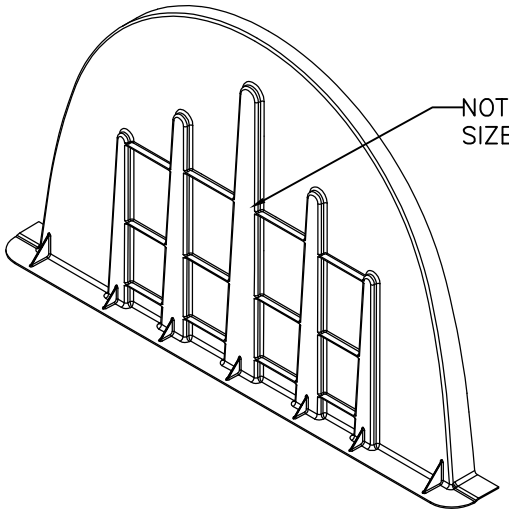
S-29 CHAMBER DETAIL

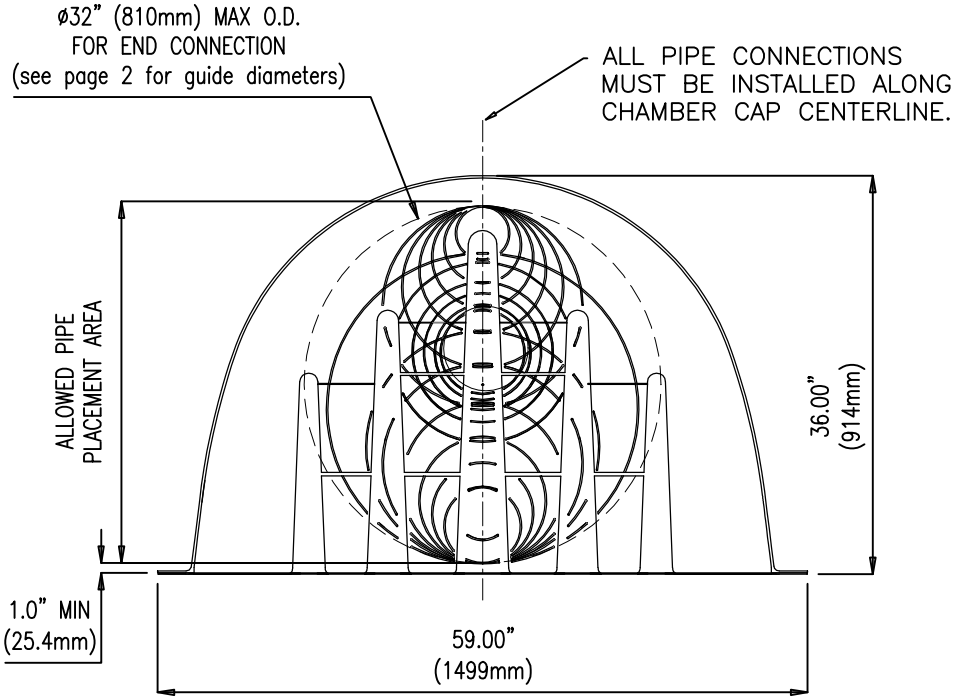
TRITON - STANDARD DETAILS

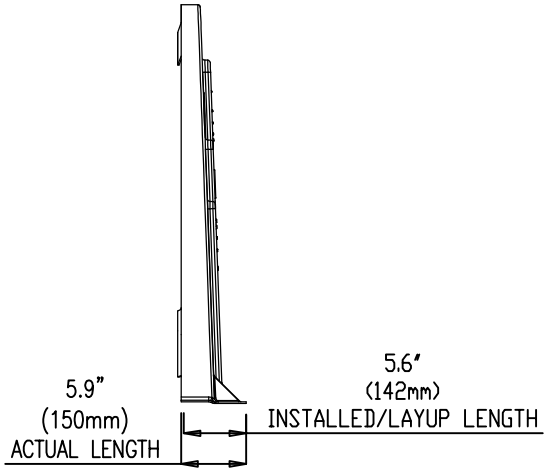
REVISED:
02-26-16 JWM



NOTE: REFER TO PAGE 2 FOR SIZES OF DIAMETER CUT GUIDES.

S-29 END CAP SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	5.90" X 59.00" X 36.00" (150mm X 1499mm X 914mm)
BARE END CAP STORAGE	1.031 CUBIC FEET (0.029 CUBIC METERS)
*MIN INSTALLED STORAGE	4.98 CUBIC FEET (0.141 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 7.5" (191mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	





THE END CAP FITS UP ON THE OUTSIDE OF THE S-29 CHAMBER. REFER TO INSTALLATION MANUAL FOR FURTHER DETAIL.

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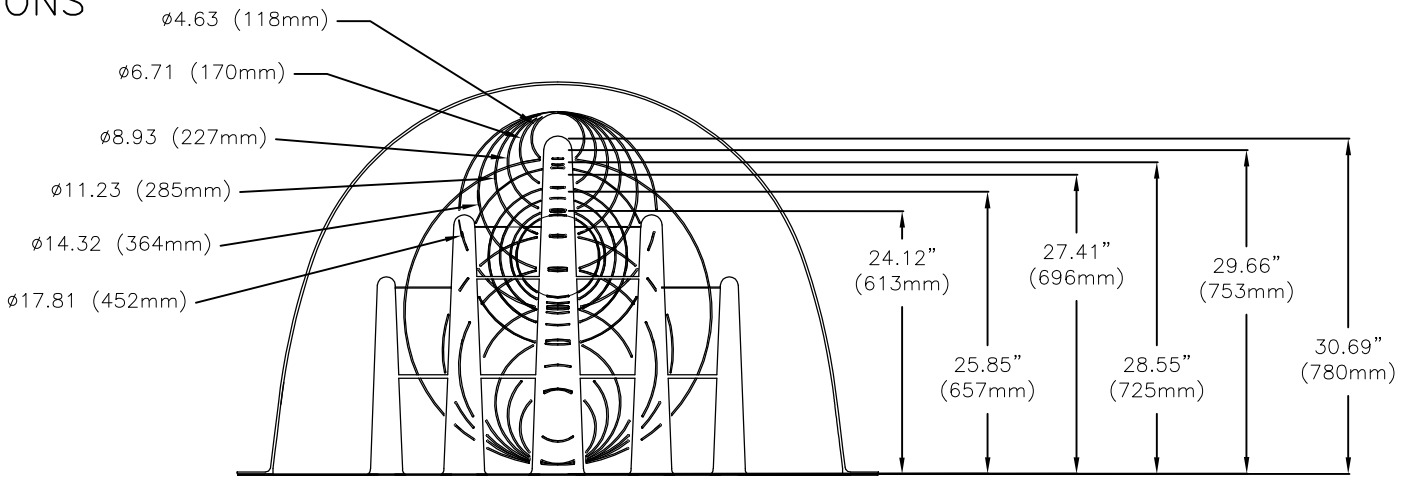
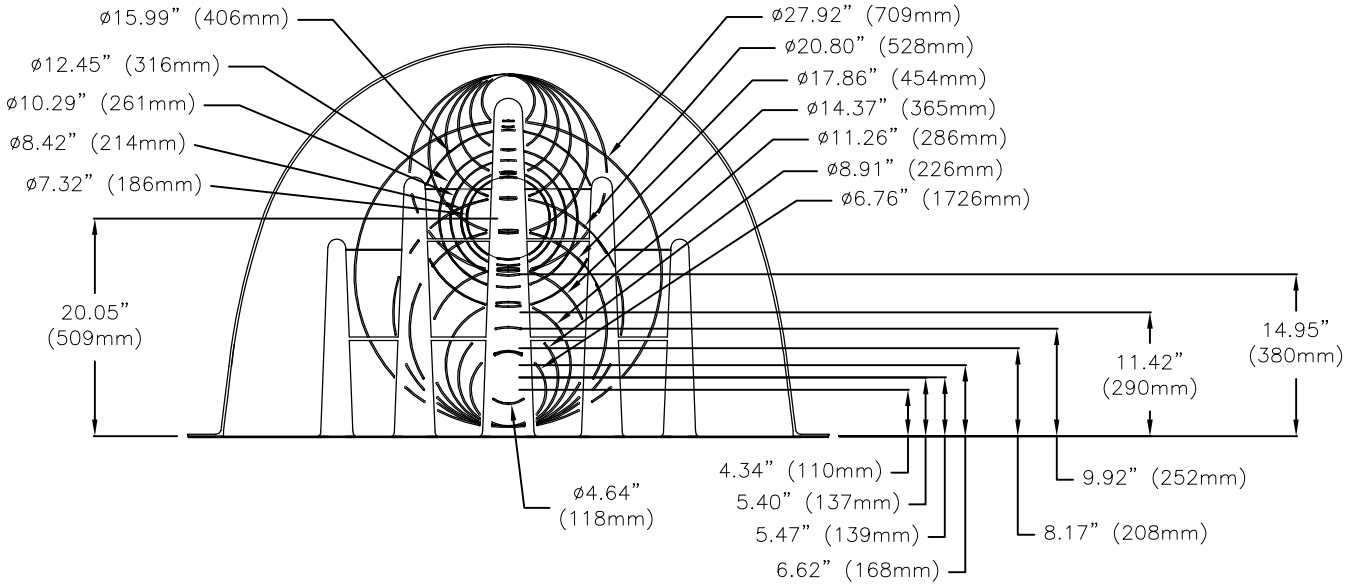
S-29 CHAMBER END CAP DETAIL

S–29 END CAP:
TOP HOLE DIMENSIONS



S–29 END CAP:
CENTER AND BOTTOM HOLE DIMENSIONS



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S-29 CHAMBER END CAP DETAIL

TRITON S-29 PRODUCT SPECIFICATIONS

1.0 General

1.1 Triton chambers are designed to control stormwater runoff. As a subsurface retention or detention system, Triton chambers retain and allow effective infiltration of water into the soil. As a subsurface detention system, Triton chambers detain and allow for the metered flow of water to an outfall.

2.0 Chamber Parameters

2.1 The chamber shall be injection compression molded of a structural grade 1010 green soy resin composite to be inherently resistant to environmental stress cracking (ESCR), creep, and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

2.2 The material property for the chamber and end cap must meet or exceed the following:
Tensile Strength- Ultimate: 21,755 PSI (150 Mpa)
Tensile Strength-Yield: 17,404 PSI (120 Mpa)
Tensile Modulus: 1,750-2,240 KSI (12,066 Mpa - 15,444 Mpa)
Flex Modulus: 1,600 KSI (11,032 Mpa)
Flex Yield Strength: 33,100 PSI (228 Mpa)
Compressive Strength: 30,457 PSI (210 Mpa)
Shear Strength: 11,500 PSI (79 Mpa)

2.3 The nominal chamber dimensions of the Triton S-29 shall be 36.0 inches tall (914 millimeters), 59.0 inches wide (1499 millimeters) and 35.36 inches long (898 millimeters). Lay-up length is 33.35 inches (847 millimeters).

2.4 The chamber shall have an elliptical curved section profile.

2.5 The chamber shall be open-bottomed.

2.6 The chamber shall incorporate an overlapping corrugation joint system to allow chamber rows to be constructed.

2.7 The nominal storage volume of a Triton S-29 chamber shall be 41.05 cubic feet (1.162 cubic meters) per chamber when installed per Triton's typical details. This equates to 2.67 cubic feet (0.075 cubic meters) of storage per square foot of bed. This does not include perimeter stone.

2.8 The chamber shall have both of its ends open to allow for unimpeded hydraulic flows and visual inspections down a row's entire length.

2.9 The chamber shall have five corrugations to achieve strengths defined above.

2.10 The chamber shall have five circular and elliptical, indented and raised, surfaces on the top to the chamber for a maximum of 24 inch (610 millimeter) diameter optional top feed inlets, inspection ports and/or clean-out access ports.

2.11 The chamber shall have five elliptical, indented, surfaces on either side of the chamber for optional feed inlets, outlets. Capable of accepting pipe O.D. up to 18 inches (450 millimeters).

2.12 The chamber shall be analyzed, designed and field tested using AASHTO LRFD bridge design specifications 1. Design live load shall meet or exceed the AASHTO HS30 or a rear axle load of 48,000 pounds (21,772.4 kg). Design shall consider earth and live loads without pavement as appropriate for the minimum 18 inches (457 millimeters) of total cover to a maximum total cover of 50 feet (15.24 meters).

2.13 The chamber shall be manufactured in an ISO 9001:2008 certified facility

2.14 The service life of the product is over 60 years under a constant sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition. Under typical loading conditions the Chamber and End Cap has a useful life span of 120 years from date of when manufactured.

3.0 End Cap Parameters

3.1 The end cap shall be Injection Compression molded of 1010 green soy resin to be inherently resistant to environmental stress cracking (ESCR), creep and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

3.2 The end cap shall be designed to fit over the last corrugation of a chamber, which allows: the capping of each end of the chamber row.

3.3 The end cap shall have six upper saw guides capable of accepting pipe O.D. up to 17.81 inches (452 millimeters), five middle saw guides capable of accepting pipe O.D. up to 15.99 inches (406mm) and eight lower saw guides capable of accepting pipe O.D. up to 27.92 inches (709 millimeters) to allow easy cutting for various diameters of pipe that may be used to inlet or outlet the system. See end cap detail for further details.

3.4 The end cap shall have excess structural adequacies to allow cutting an orifice of any size at any invert elevation.

3.5 The primary face of an end cap shall have five corrugations and be angled outward to resist horizontal loads generated near the edges of beds.

3.6 The end cap shall be manufactured in an ISO 9001:2008 certified facility.

3.7 The service life of the product to be over 60 years under a sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition.

3.8 The nominal storage volume of a Triton S-29 end cap shall be 4.98 cubic feet (0.141 cubic meters) per end cap when installed per triton's typical details. This equates to 1.83 cubic feet (0.052 cubic meters) of storage per square foot of bed.

4.0 Installation

4.1 Installation shall be in accordance with the latest Triton Installation manual that can be downloaded from the Triton website: www.tritonsws.com/support/downloads

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S-29 PRODUCT SPECIFICATIONS

TRITON - STANDARD DETAILS

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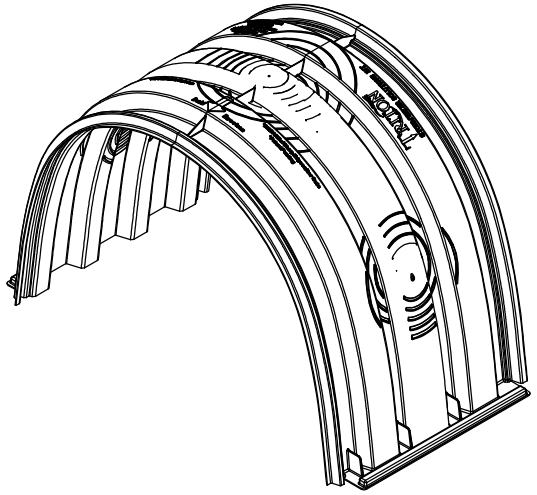
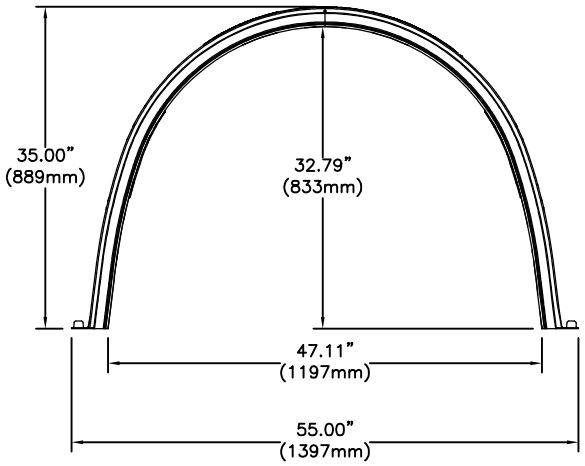
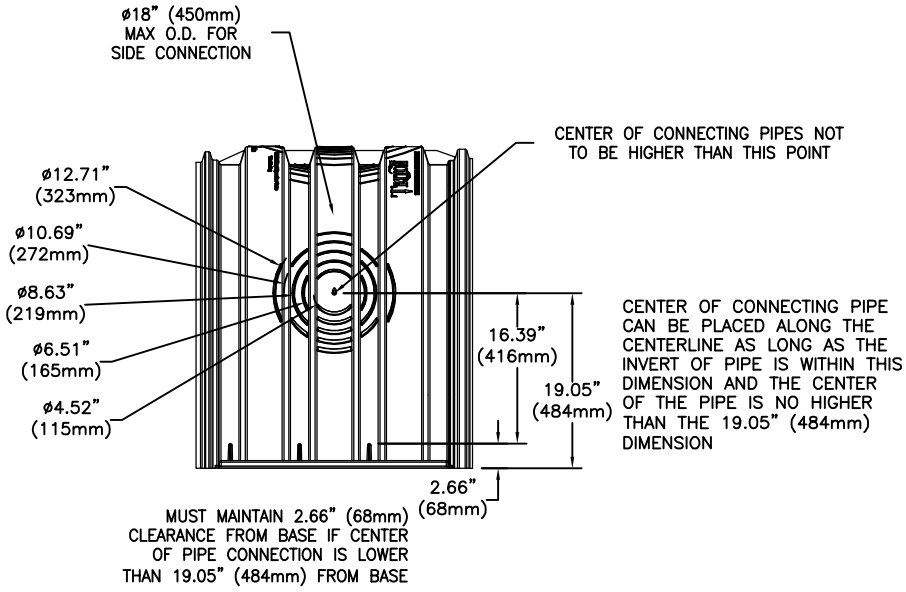
03-02-16 JWM

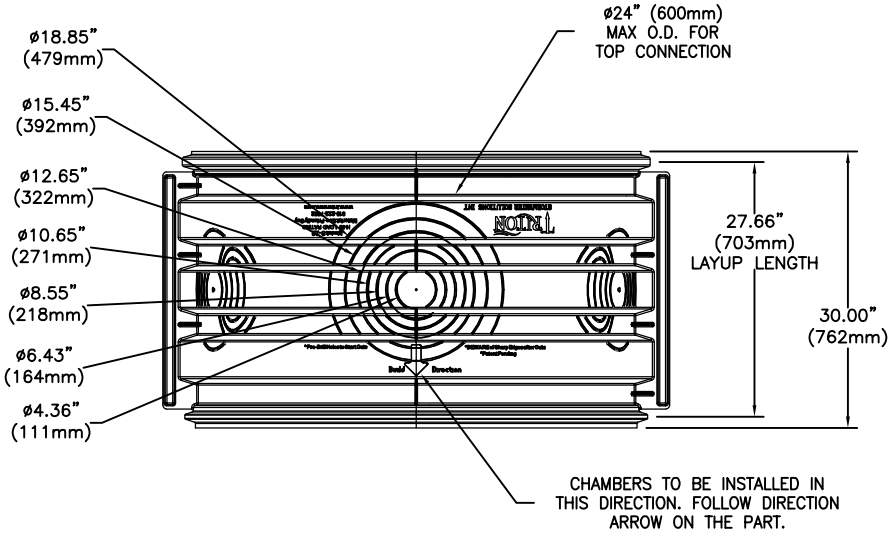


S-22 CHAMBER SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	27.66" X 55.00" X 35.00" (703mm X 1397mm X 889mm)
BARE CHAMBER STORAGE	21.57 CUBIC FEET (0.611 CUBIC METERS)
*MIN INSTALLED STORAGE	31.30 CUBIC FEET (0.886 CUBIC METERS)
CHAMBER WEIGHT	28 lbs (12.701 kg)
STORAGE PER LINEAR FOOT WITHOUT STONE	9.36 CUBIC FEET (0.265 CUBIC METERS)
STORAGE PER LINEAR FOOT WITH STONE	13.58 CUBIC FEET (0.385 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	

NOTE: S-22 CHAMBER DETAILS TESTED AND RATED FOR H-30 LOAD CONDITIONS WITH 18" (450mm) OF COVER AND NO PAVEMENT.







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S-22 CHAMBER DETAIL

TRITON - STANDARD DETAILS

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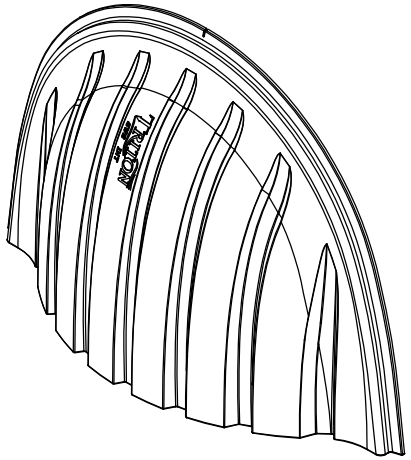
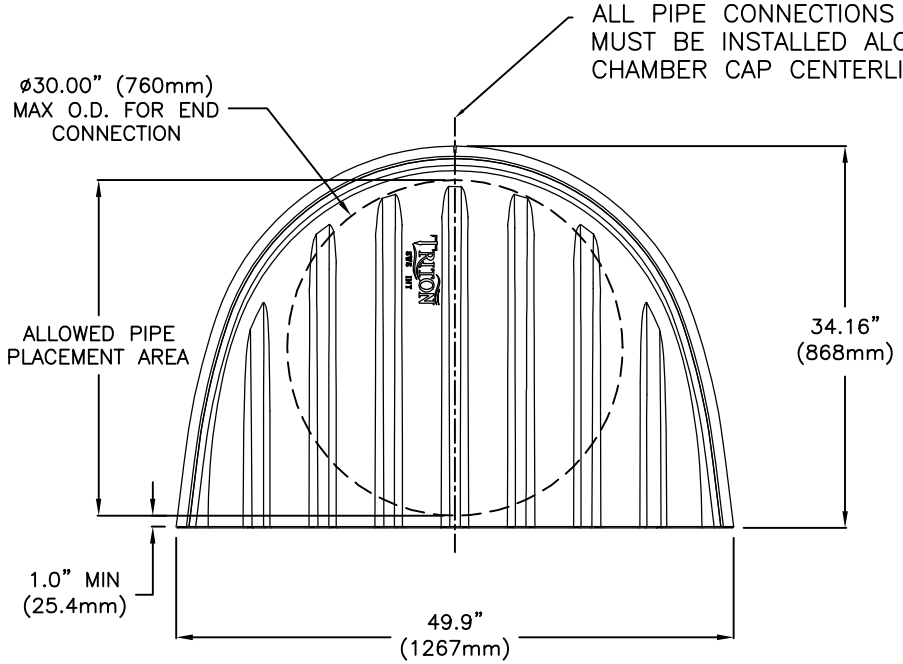
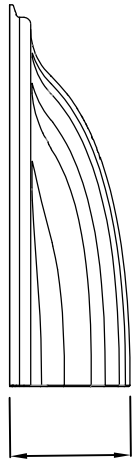
02-26-16 JWM



S-22 END CAP SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	10.8" X 49.9" X 34.16" (274mm X 1267mm X 868mm)
BARE END CAP STORAGE	3.98 CUBIC FEET (0.113 CUBIC METERS)
*MIN INSTALLED STORAGE	9.56 CUBIC FEET (0.271 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	





THE END CAP FITS UP INSIDE THE LAST CONNECTING RIBS OF THE S–22 CHAMBER

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S-22 CHAMBER END CAP DETAIL

TRITON - STANDARD DETAILS

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TRITON S-22 PRODUCT SPECIFICATIONS

1.0 General

1.1 Triton chambers are designed to control stormwater runoff. As a subsurface retention or detention system, Triton chambers retain and allow effective infiltration of water into the soil. As a subsurface detention system, Triton chambers detain and allow for the metered flow of water to an outfall.

2.0 Chamber Parameters

2.1 The chamber shall be injection compression molded of a structural grade 1010 green soy resin composite to be inherently resistant to environmental stress cracking (ESCR), creep, and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

2.2 The material property for the chamber and end cap must meet or exceed the following:
Tensile Strength- Ultimate: 21,755 PSI (150 Mpa)
Tensile Strength-Yield: 17,404 PSI (120 Mpa)
Tensile Modulus: 1,750-2,240 KSI (12,066 Mpa - 15,444 Mpa)
Flex Modulus: 1,600 KSI (11,032 Mpa)
Flex Yield Strength: 33,100 PSI (228 Mpa)
Compressive Strength: 30,457 PSI (210 Mpa)
Shear Strength: 11,500 PSI (79 Mpa)

2.3 The nominal chamber dimensions of the Triton S-22 shall be 35.0 inches tall (889 millimeters), 55.0 inches wide (1397 millimeters) and 30.0 inches long (762 millimeters). Lay-up length is 27.66 inches (703 millimeters).

2.4 The chamber shall have an elliptical curved section profile.

2.5 The chamber shall be open-bottomed.

2.6 The chamber shall incorporate an overlapping corrugation joint system to allow chamber rows to be constructed.

2.7 The nominal storage volume of a Triton S-22 chamber shall be 31.30 cubic feet (0.886 cubic meters) per chamber when installed per Triton's typical details. This equates to 2.67 cubic feet (0.076 cubic meters) of storage per square foot of bed. This does not include perimeter stone.

2.8 The chamber shall have both of its ends open to allow for unimpeded hydraulic flows and visual inspections down a row's entire length.

2.9 The chamber shall have five corrugations to achieve strengths defined above.

2.10 The chamber shall have five circular and elliptical, indented and raised, surfaces on the top to the chamber for a maximum of 24 inch (600 millimeter) diameter optional top feed inlets, inspection ports and/or clean-out access ports.

2.11 The chamber shall have five elliptical, indented, surfaces on either side of the chamber for optional feed inlets, outlets. Capable of accepting pipe O.D. up to 18 inches (450 millimeters).

2.12 The chamber shall be analyzed, designed and field tested using AASHTO LRFD bridge design specifications 1. Design live load shall meet or exceed the AASHTO HS30 or a rear axle load of 48,000 pounds (21,772.4 kg). Design shall consider earth and live loads without pavement as appropriate for the minimum 18 inches (457 millimeters) of total cover to a maximum total cover of 50 feet (15.24 meters).

2.13 The chamber shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility

2.14 The service life of the product is over 60 years under a constant sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition. Under typical loading conditions the Chamber and End Cap has a useful life span of 120 years from date of when manufactured.

3.0 End Cap Parameters

3.1 The end cap shall be Injection Compression molded of 1010 green soy resin to be inherently resistant to environmental stress cracking (ESCR), creep and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

3.2 The end cap shall be designed to fit inside the last corrugation of a chamber, which allows the capping of each end of the chamber row.

3.3 The end cap shall have 7 vertical corrugations across the front the face of the bull nosed surface. The maximum diameter that the end cap can accept is 30.0 inch (760mm) PS46, ASTM F679 PVC pipe.

3.4 The end cap shall have excess structural adequacies to allow cutting an orifice of any size at any invert elevation.

3.5 The primary face of an end cap shall have five corrugations and be angled outward to resist horizontal loads generated near the edges of beds.

3.6 The end cap shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility.

3.7 The service life of the product to be over 60 years under a sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition.

3.8 The nominal storage volume of a Triton S-22 end cap shall be 9.56 cubic feet (0.271 cubic meters) per end cap when installed per triton's typical details. This equates to 2.09 cubic feet (0.059 cubic meters) of storage per square foot of bed.

4.0 Installation

4.1 Installation shall be in accordance with the latest Triton Installation manual that can be downloaded from the Triton website: www.tritonsws.com/support/downloads

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S-22 PRODUCT SPECIFICATIONS

TRITON - STANDARD DETAILS

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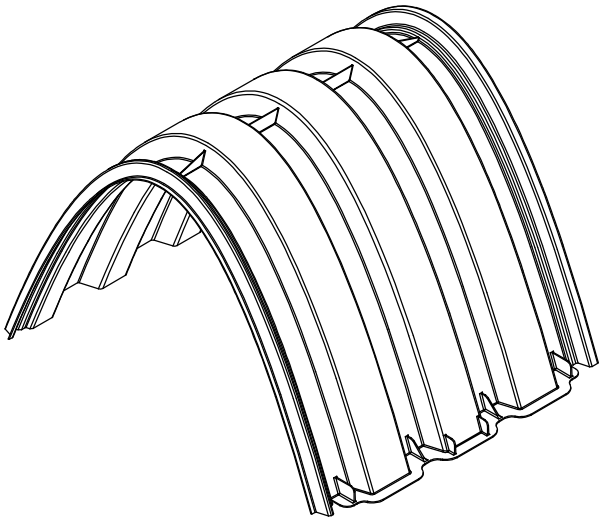
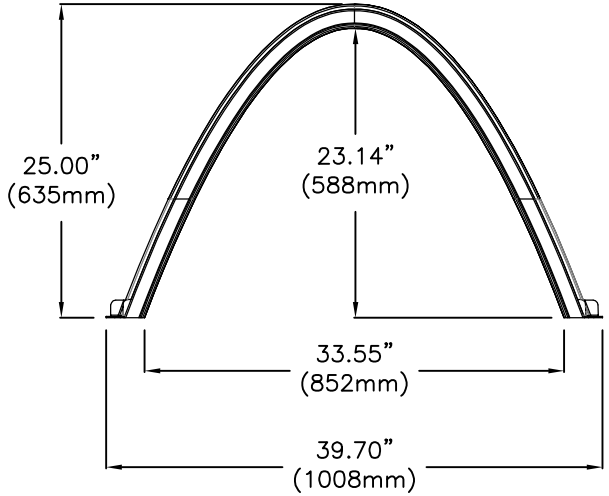
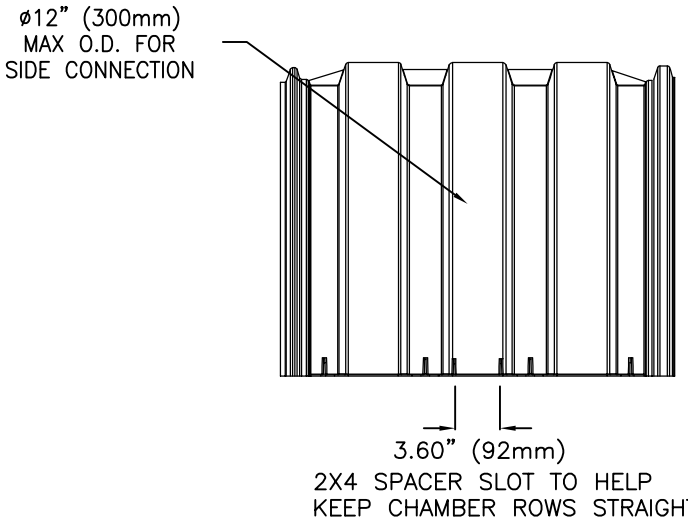
03-02-16 JWM

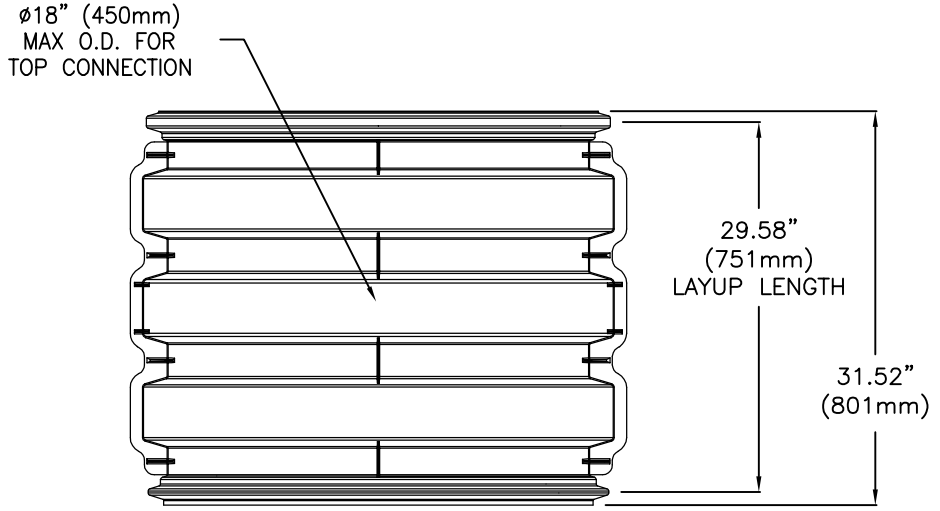


C-10 CHAMBER SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	29.58" X 39.70" X 25.00" (751mm X 1008mm X 635mm)
BARE CHAMBER STORAGE	9.8 CUBIC FEET (0.277 CUBIC METERS)
*MIN INSTALLED STORAGE	17.45 CUBIC FEET (0.494 CUBIC METERS)
CHAMBER WEIGHT	18 lbs (8.165 kg)
STORAGE PER LINEAR FOOT WITHOUT STONE	3.97 CUBIC FEET (0.112 CUBIC METERS)
STORAGE PER LINEAR FOOT WITH STONE	7.08 CUBIC FEET (0.200 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	

NOTE: C-10 CHAMBER DETAILS TESTED AND RATED FOR H-30 LOAD CONDITIONS WITH 18" (457mm) OF COVER AND NO PAVEMENT.







CONCEPTUAL PLAN DISCLAIMER

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C-10 CHAMBER DETAIL

TRITON - STANDARD DETAILS

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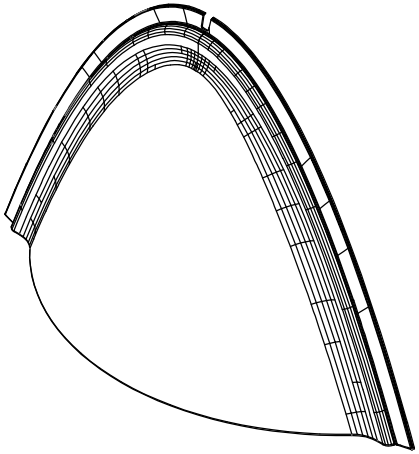
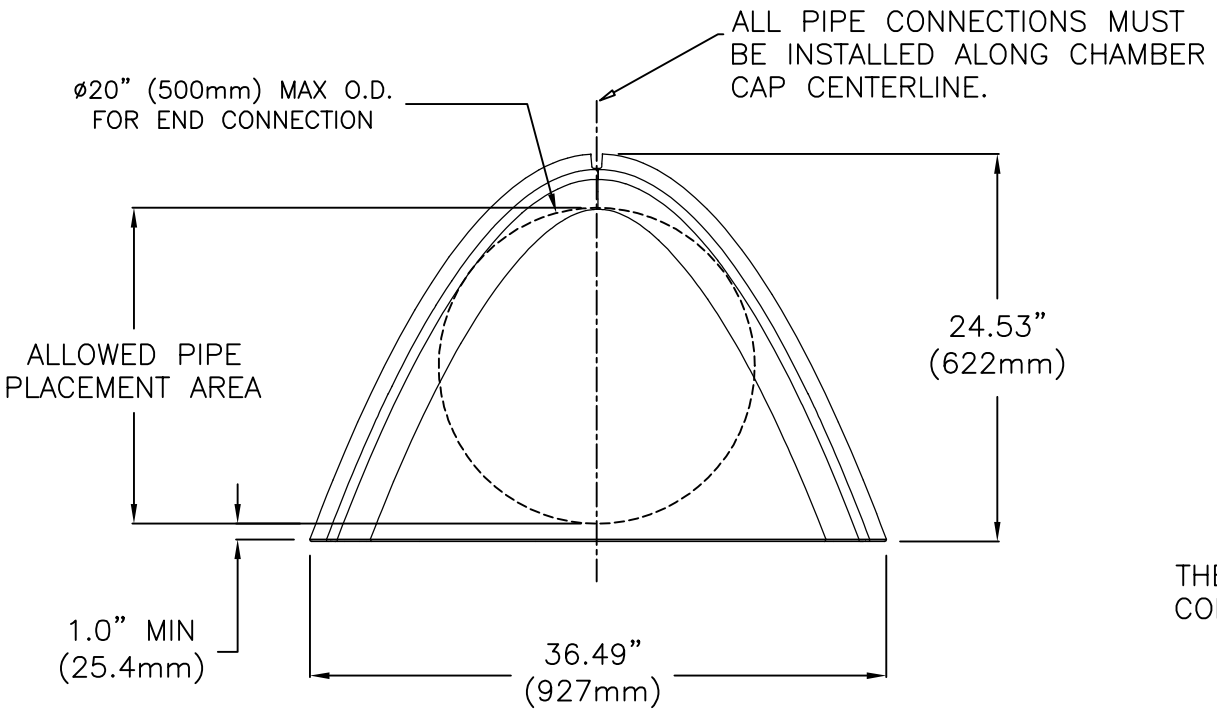
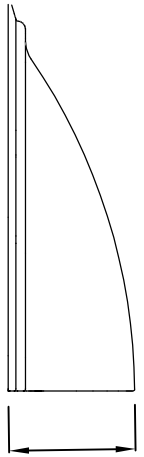
02-26-16 JWM



C-10 END CAP SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	8.0" X 36.49" X 24.53" (203mm X 921mm X 622mm)
BARE END CAP STORAGE	1.21 CUBIC FEET (0.034 CUBIC METERS)
*MIN INSTALLED STORAGE	3.86 CUBIC FEET (0.109 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	





THE END CAP FITS UP INSIDE THE LAST CONNECTING RIBS OF THE C-10 CHAMBER

TRITON STORMWATER SOLUTIONS

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C-10 CHAMBER END CAP DETAIL

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM

TRITON C-10 PRODUCT SPECIFICATIONS

1.0 General

1.1 Triton chambers are designed to control stormwater runoff. As a subsurface retention or detention system, Triton chambers retain and allow effective infiltration of water into the soil. As a subsurface detention system, Triton chambers detain and allow for the metered flow of water to an outfall.

2.0 Chamber Parameters

2.1 The chamber shall be injection compression molded of a structural grade 1010 green soy resin composite to be inherently resistant to environmental stress cracking (ESCR), creep, and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

2.2 The material property for the chamber and end cap must meet or exceed the following:
Tensile Strength- Ultimate: 21,755 PSI (150 Mpa)
Tensile Strength-Yield: 17,404 PSI (120 Mpa)
Tensile Modulus: 1,750-2,240 KSI (12,066 Mpa - 15,444 Mpa)
Flex Modulus: 1,600 KSI (11,032 Mpa)
Flex Yield Strength: 33,100 PSI (228 Mpa)
Compressive Strength: 30,457 PSI (210 Mpa)
Shear Strength: 11,500 PSI (79 Mpa)

2.3 The nominal chamber dimensions of the Triton C-10 shall be 25.0 inches tall (635 millimeters), 39.7 inches wide (1008 millimeters) and 31.52 inches long (801 millimeters). Lay-up length is 29.58 inches (751 millimeters).

2.4 The chamber shall have an elliptical curved section profile.

2.5 The chamber shall be open-bottomed.

2.6 The chamber shall incorporate an overlapping corrugation joint system to allow chamber rows to be constructed.

2.7 The nominal storage volume of a Triton C-10 chamber shall be 17.45 cubic feet (0.494 cubic meters) per chamber when installed per Triton's typical details. This equates to 1.86 cubic feet (0.053 cubic meters) of storage per square foot of bed. This does not include perimeter stone.

2.8 The chamber shall have both of its ends open to allow for unimpeded hydraulic flows and visual inspections down a row's entire length.

2.9 The chamber shall have five corrugations to achieve strengths defined above.

2.10 The chamber shall have five circular and elliptical, indented and raised, surfaces on the top to the chamber for a maximum of 18 inch (450 millimeter) diameter optional top feed inlets, inspection ports and/or clean-out access ports.

2.11 The chamber side shall be capable of accepting pipe O.D. up to 12 inches (300 millimeters).

2.12 The chamber shall be analyzed, designed and field tested using AASHTO LRFD bridge design specifications 1. Design live load shall meet or exceed the AASHTO HS30 or a rear axle load of 48,000 pounds (21,772.4 kg). Design shall consider earth and live loads without pavement as appropriate for the minimum 18 inches (457 millimeters) of total cover to a maximum total cover of 50 feet (15.24 meters).

2.13 The chamber shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility

2.14 The service life of the product is over 60 years under a constant sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition. Under typical loading conditions the Chamber and End Cap has a useful life span of 120 years from date of when manufactured.

3.0 End Cap Parameters

3.1 The end cap shall be Injection Compression molded of 1010 green soy resin to be inherently resistant to environmental stress cracking (ESCR), creep and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

3.2 The end cap shall be designed to fit inside the last corrugation of a chamber, which allows the capping of each end of the chamber row.

3.3 The end cap shall have 7 different diameter connection guides across the front face of the bull nosed surface. The maximum diameter that the end cap can accept is 20 inches (500 millimeter) PS46, ASTM F679 PVC pipe.

3.4 The end cap shall have excess structural adequacies to allow cutting an orifice of any size at any invert elevation.

3.5 The primary face of an end cap shall have five corrugations and be angled outward to resist horizontal loads generated near the edges of beds.

3.6 The end cap shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility.

3.7 The service life of the product to be over 60 years under a sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition.

3.8 The nominal storage volume of a Triton C-10 end cap shall be 3.86 cubic feet (0.109 cubic meters) per end cap when installed per triton's typical details. This equates to 1.52 cubic feet (0.043 cubic meters) of storage per square foot of bed.

4.0 Installation

4.1 Installation shall be in accordance with the latest Triton Installation manual that can be downloaded from the Triton website: www.tritonsws.com/support/downloads

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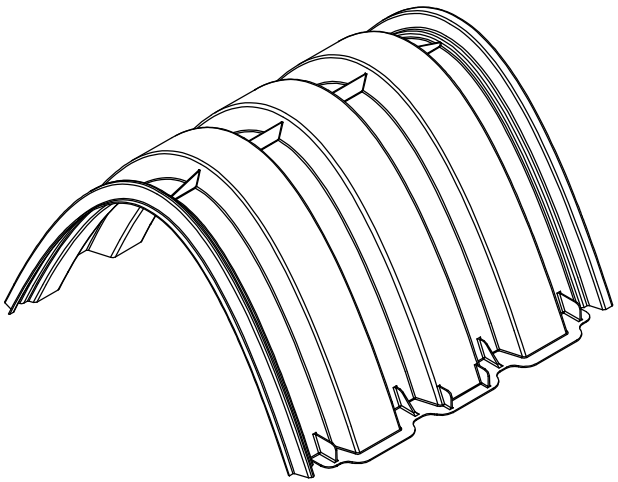
C-10 PRODUCT SPECIFICATIONS

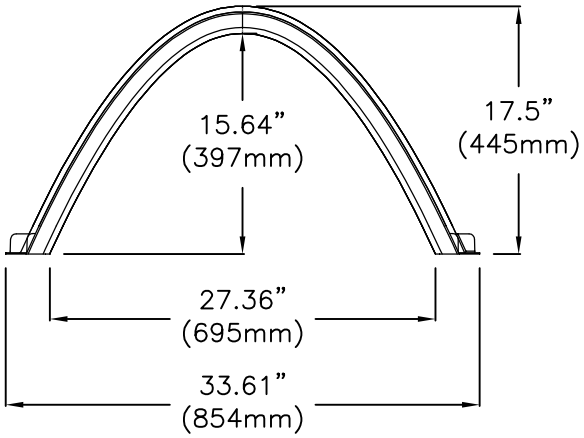
TRITON - STANDARD DETAILS

REVISED:
03-02-16 JWM

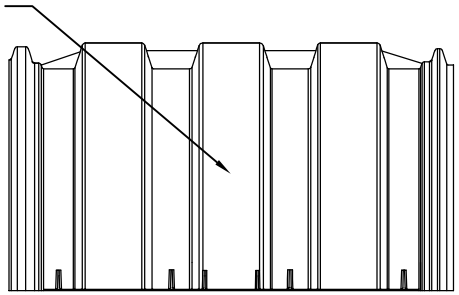


M-6 CHAMBER SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	29.58" X 33.61" X 17.5" (751mm X 854mm X 445mm)
BARE CHAMBER STORAGE	5.6 CUBIC FEET (0.159 CUBIC METERS)
*MIN INSTALLED STORAGE	11.36 CUBIC FEET (0.322 CUBIC METERS)
CHAMBER WEIGHT	14 lbs (6.35 kg)
STORAGE PER LINEAR FOOT WITHOUT STONE	2.27 CUBIC FEET (0.064 CUBIC METERS)
STORAGE PER LINEAR FOOT WITH STONE	4.61 CUBIC FEET (0.131 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	

NOTE: M-6 CHAMBER DETAILS TESTED AND RATED FOR H-30 LOAD CONDITIONS WITH 18" (457mm) OF COVER AND NO PAVEMENT.

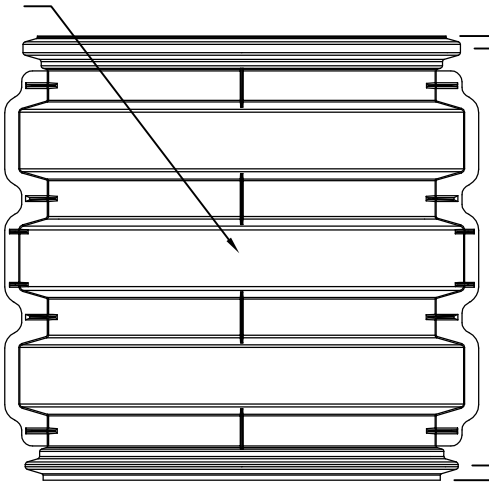


ø8” (200mm)
MAX O.D. FOR
SIDE CONNECTION



3.60” (91mm)
2x4 SPACER SLOT TO HELP
KEEP CHAMBER ROWS STRAIGHT

ø12” (300mm)
MAX O.D. FOR
TOP CONNECTION



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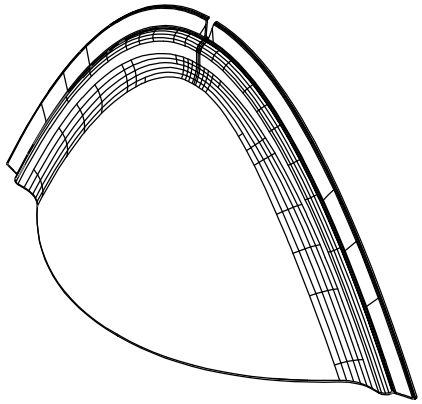
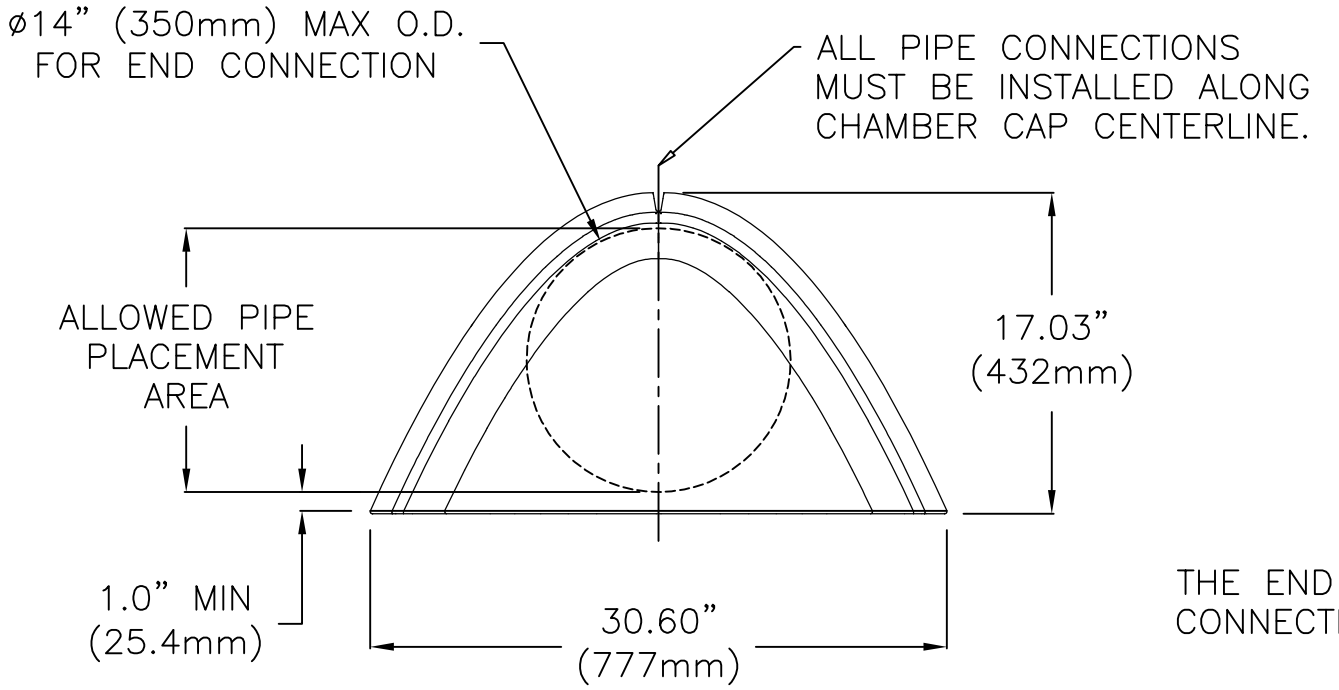
M-6 CHAMBER DETAIL

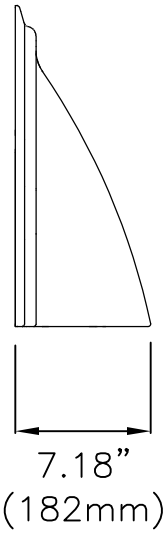
TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM



M-6 END CAP SPECS	
NOMINAL DIMENSIONS (LAYUP LENGTH X WIDTH X HEIGHT)	7.18" X 30.60" X 17.03" (183mm X 777mm X 432mm)
BARE END CAP STORAGE	0.533 CUBIC FEET (0.015 CUBIC METERS)
*MIN INSTALLED STORAGE	2.26 CUBIC FEET (0.064 CUBIC METERS)
*ASSUMING A MIN OF 6" (152mm) STONE ABOVE AND BELOW AND 6" (152mm) BETWEEN ROWS WITH 40% STONE POROSITY (DOES NOT INCLUDE 12" (305mm) PERIMETER STONE VOLUME)	





THE END CAP FITS UP INSIDE THE LAST CONNECTING RIBS OF THE M-6 CHAMBER

TRITON STORMWATER SOLUTIONS

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M-6 CHAMBER END CAP DETAIL

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM

TRITON M-6 PRODUCT SPECIFICATIONS

1.0 General

1.1 Triton chambers are designed to control stormwater runoff. As a subsurface retention or detention system, Triton chambers retain and allow effective infiltration of water into the soil. As a subsurface detention system, Triton chambers detain and allow for the metered flow of water to an outfall.

2.0 Chamber Parameters

2.1 The chamber shall be injection compression molded of a structural grade 1010 green soy resin composite to be inherently resistant to environmental stress cracking (ESCR), creep, and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

2.2 The material property for the chamber and end cap must meet or exceed the following:
Tensile Strength- Ultimate: 21,755 PSI (150 Mpa)
Tensile Strength-Yield: 17,404 PSI (120 Mpa)
Tensile Modulus: 1,750-2,240 KSI (12,066 Mpa - 15,444 Mpa)
Flex Modulus: 1,600 KSI (11,032 Mpa)
Flex Yield Strength: 33,100 PSI (228 Mpa)
Compressive Strength: 30,457 PSI (210 Mpa)
Shear Strength: 11,500 PSI (79 Mpa)

2.3 The nominal chamber dimensions of the Triton M-6 shall be 17.5 inches tall (445 millimeters), 33.61 inches wide (854 millimeters) and 31.5 inches long (800 millimeters). Lay-up length is 29.58 inches (751 millimeters).

2.4 The chamber shall have an elliptical curved section profile.

2.5 The chamber shall be open-bottomed.

2.6 The chamber shall incorporate an overlapping corrugation joint system to allow chamber rows to be constructed.

2.7 The nominal storage volume of a Triton M-6 chamber shall be 11.36 cubic feet (0.322 cubic meters) per chamber when installed per Triton's typical details. This equates to 1.40 cubic feet (0.040 cubic meters) of storage per square foot of bed. This does not include perimeter stone.

2.8 The chamber shall have both of its ends open to allow for unimpeded hydraulic flows and visual inspections down a row's entire length.

2.9 The chamber shall have five corrugations to achieve strengths defined above.

2.10 The chamber shall have five circular and elliptical, indented and raised, surfaces on the top to the chamber for a maximum of 12 inch (300 millimeter) diameter optional top feed inlets, inspection ports and/or clean-out access ports.

2.11 The chamber side shall be capable of accepting pipe O.D. up to 8 inches (200 millimeters).

2.12 The chamber shall be analyzed, designed and field tested using AASHTO LRFD bridge design specifications 1. Design live load shall meet or exceed the AASHTO HS30 or a rear axle load of 48,000 pounds (21,772.4 kg). Design shall consider earth and live loads without pavement as appropriate for the minimum 18 inches (457 millimeters) of total cover to a maximum total cover of 50 feet (15.24 meters).

2.13 The chamber shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility

2.14 The service life of the product is over 60 years under a constant sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition. Under typical loading conditions the Chamber and End Cap has a useful life span of 120 years from date of when manufactured.

3.0 End Cap Parameters

3.1 The end cap shall be Injection Compression molded of 1010 green soy resin to be inherently resistant to environmental stress cracking (ESCR), creep and to maintain proper stiffness through temperature ranges of -40 degrees Fahrenheit to 180 degrees Fahrenheit (-40 degrees Celsius to 82.2 degrees Celsius).

3.2 The end cap shall be designed to fit inside the last corrugation of a chamber, which allows the capping of each end of the chamber row.

3.3 The end cap shall have 7 different diameter connection guides across the front face of the bull nosed surface. The maximum diameter that the end cap can accept is 14 inches (350 millimeters) PS46, ASTM F679 PVC pipe.

3.4 The end cap shall have excess structural adequacies to allow cutting an orifice of any size at any invert elevation.

3.5 The primary face of an end cap shall have five corrugations and be angled outward to resist horizontal loads generated near the edges of beds.

3.6 The end cap shall be manufactured in an ISO/TS16949:2002 and ISO 14001:2004 certified facility.

3.7 The service life of the product to be over 60 years under a sustained load of 10,000 PSI (68.95 Mpa) which is equal to the H-20 loading condition.

3.8 The nominal storage volume of a Triton M-6 end cap shall be 2.26 cubic feet (0.064 cubic meters) per end cap when installed per triton's typical details. This equates to 1.15 cubic feet (0.032 cubic meters) of storage per square foot of bed.

4.0 Installation

4.1 Installation shall be in accordance with the latest Triton Installation manual that can be downloaded from the Triton website: www.tritonsws.com/support/downloads

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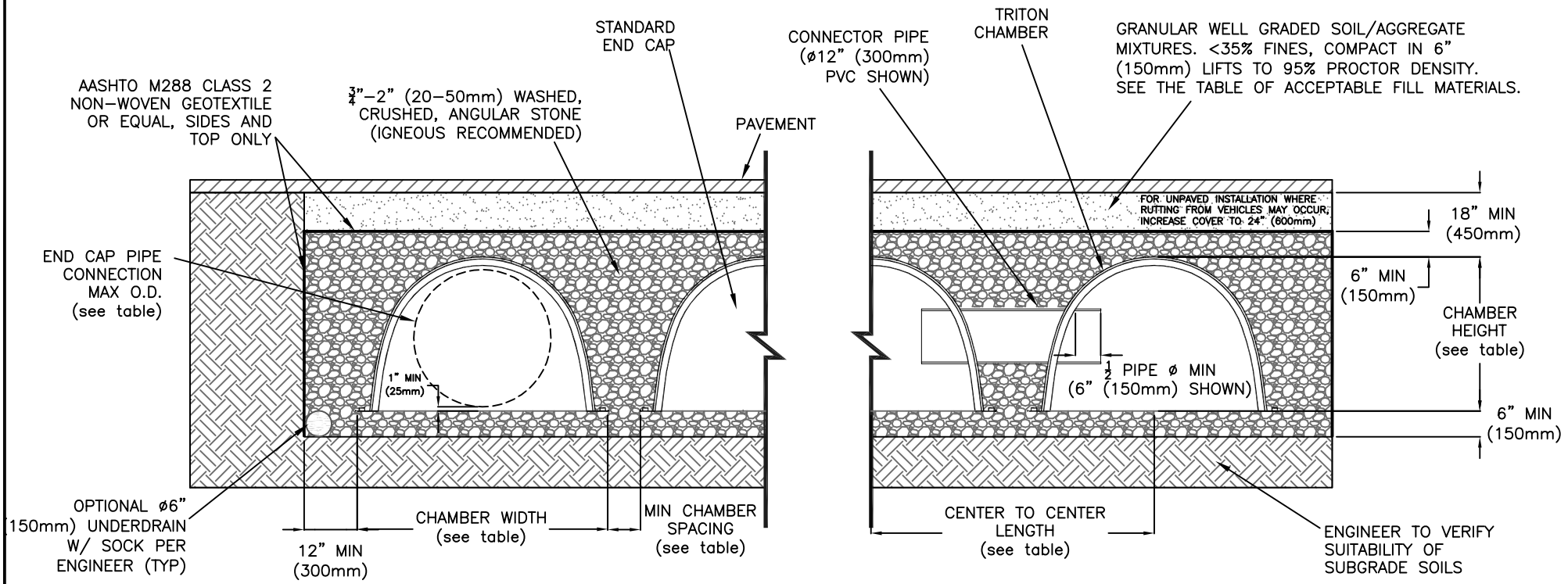
M-6 PRODUCT SPECIFICATIONS

TRITON - STANDARD DETAILS

REVISED:
03-02-16 JWM



	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
S29	59" (1499mm)	6.0" (150mm) *7.5" (190mm)	66.5" (1690mm)	36" (914mm)	32" (813mm)
S22	55" (1397mm)	6.0" (150mm)	61.0" (1549mm)	35" (889mm)	30" (762mm)
C10	39.7" (1008mm)	6.0" (150mm)	45.7" (1161mm)	25" (635mm)	20" (508mm)
M6	33.6" (853mm)	6.0" (150mm)	39.6" (1006mm)	17.5" (445mm)	14" (356mm)
*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)					

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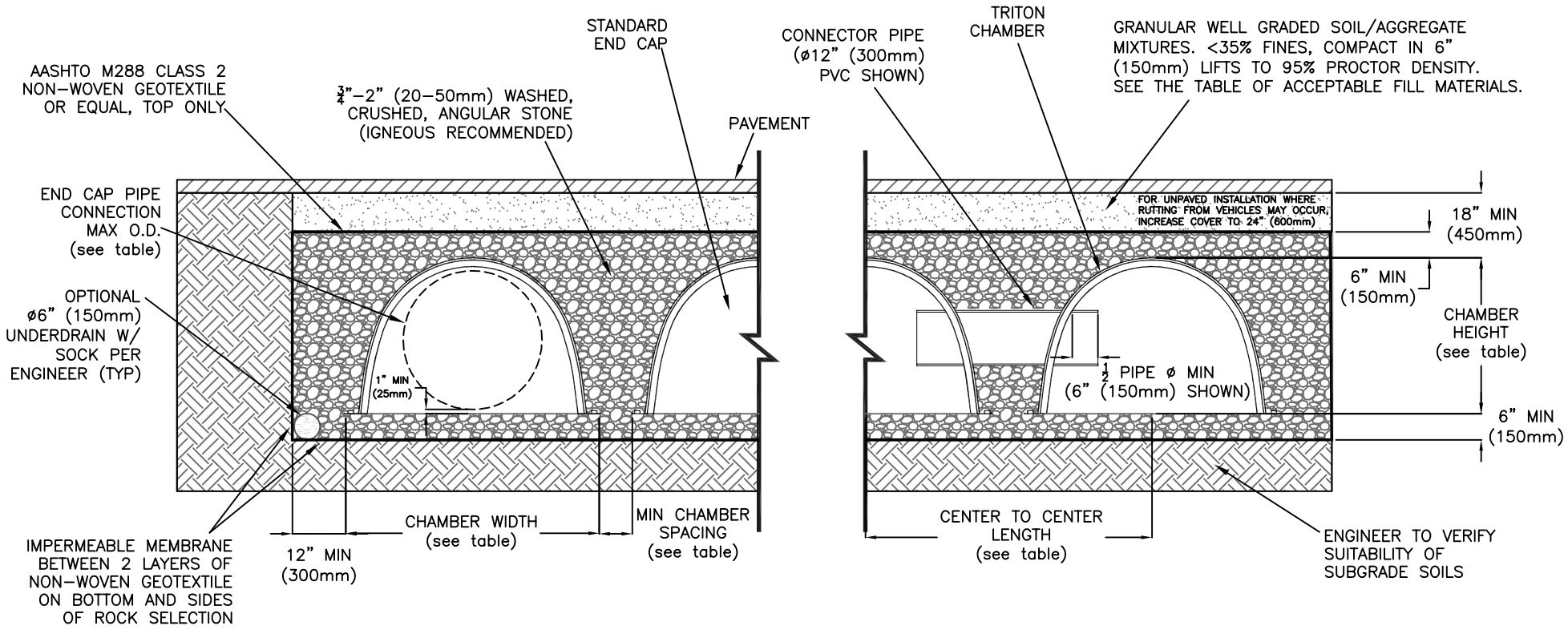
CHAMBER CROSS SECTION

INFILTRATION

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM

NOTE: IF USED FOR WATER HARVESTING SYSTEM, FILL THE TRENCH WITH WATER AFTER THE FABRIC AND LINER HAVE BEEN INSTALLED TO ENSURE THERE ARE NO LEAKS IN THE LINER PRIOR TO INSTALLING THE STONE, CHAMBER AND BACKFILL.



	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
S29	59" (1499mm)	6.0" (150mm) *7.5" (190mm)	66.5" (1690mm)	36" (914mm)	32" (813mm)
S22	55" (1397mm)	6.0" (150mm)	61.0" (1549mm)	35" (889mm)	30" (762mm)
C10	39.7" (1008mm)	6.0" (150mm)	45.7" (1161mm)	25" (635mm)	20" (508mm)
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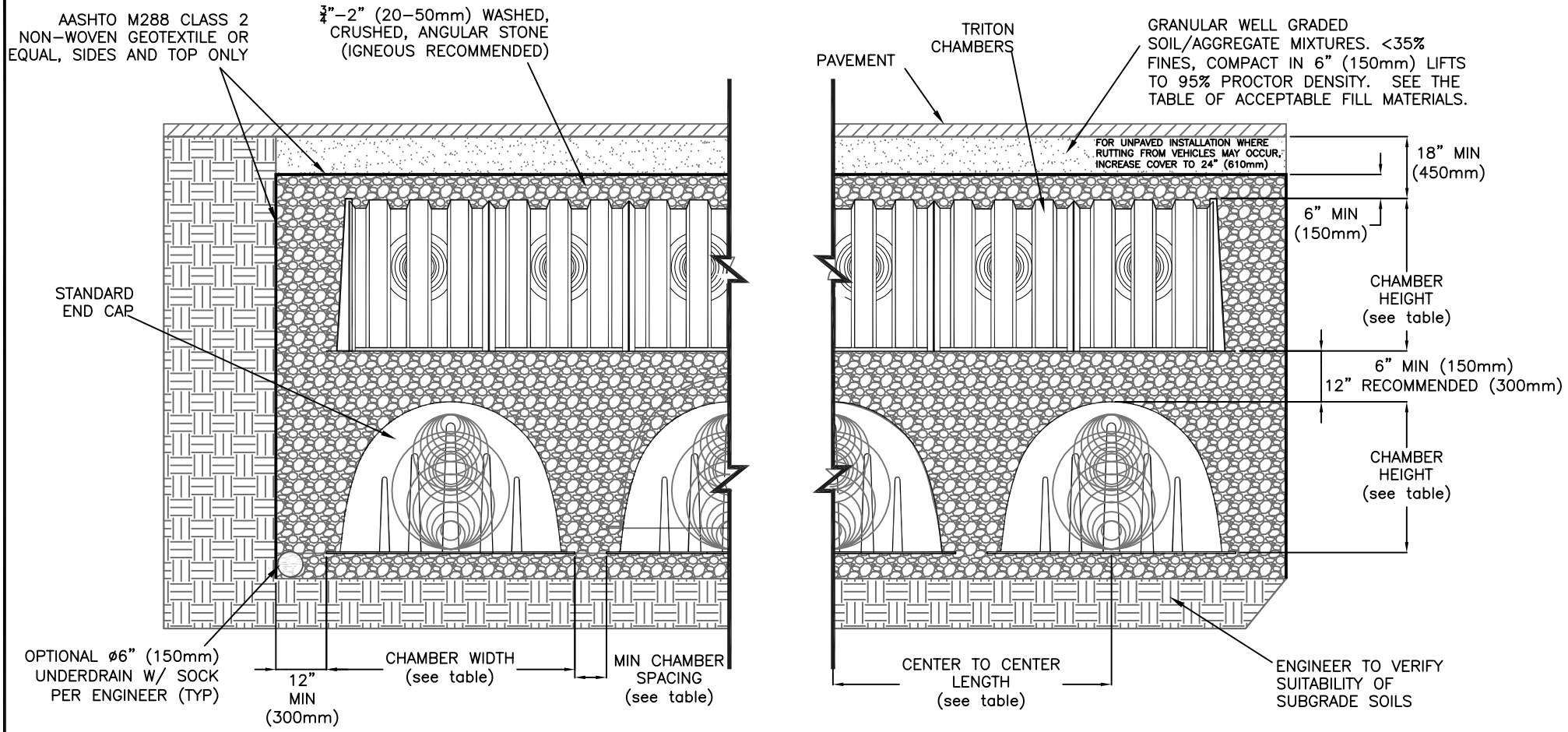
CHAMBER CROSS SECTION

DETENTION - WITH IMPERMEABLE LINER

TRITON - STANDARD DETAILS

REVISED: 02-26-16 JWM



	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
S29	59" (1499mm)	6.0" (150mm) *7.5" (190mm)	66.5" (1690mm)	36" (914mm)	32" (813mm)
S22	55" (1397mm)	6.0" (150mm)	61.0" (1549mm)	35" (889mm)	30" (762mm)
C10	39.7" (1008mm)	6.0" (150mm)	45.7" (1161mm)	25" (635mm)	20" (508mm)
M6	33.6" (853mm)	6.0" (150mm)	39.6" (1006mm)	17.5" (445mm)	14" (356mm)

*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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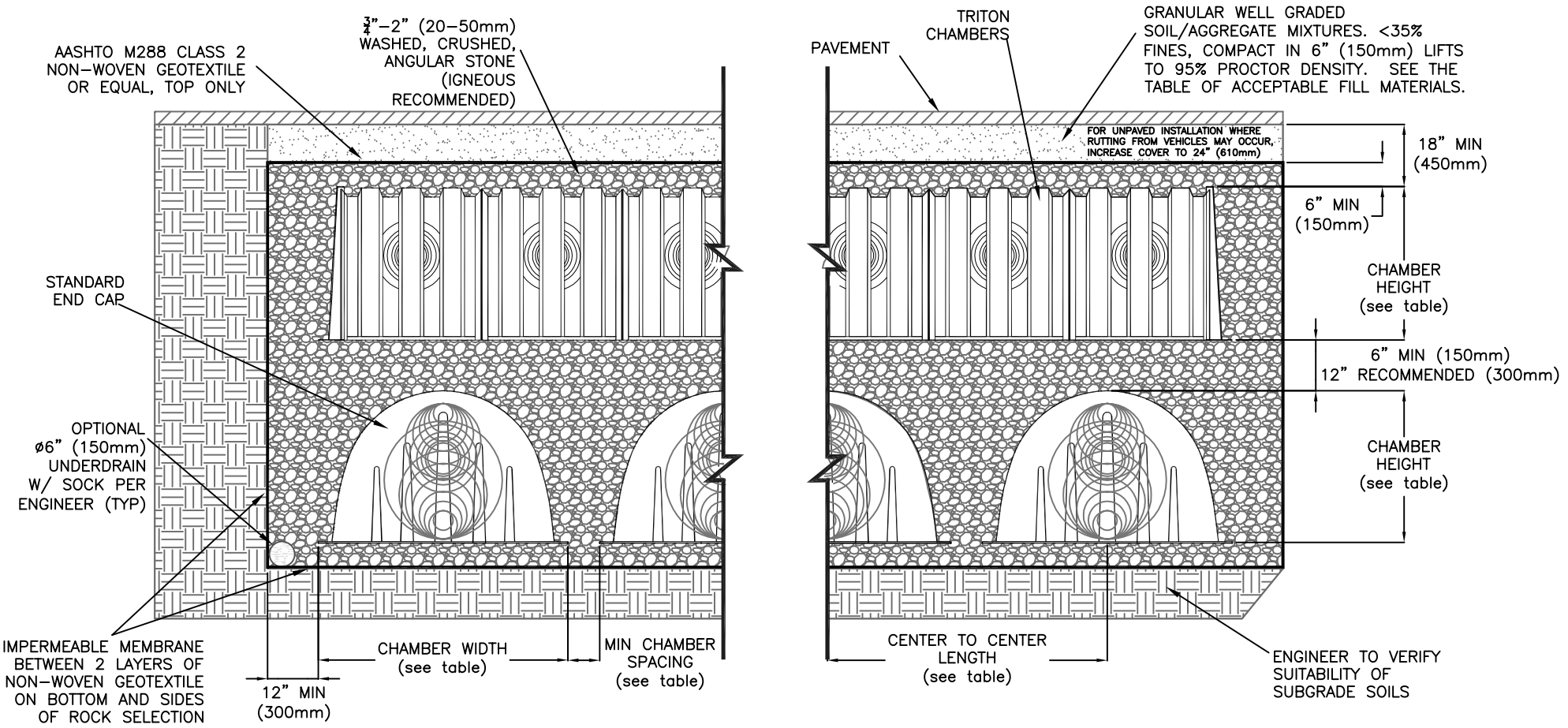
DOUBLE STACK CROSS SECTION

INFILTRATION

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM

NOTE: IF USED FOR WATER HARVESTING SYSTEM, FILL THE TRENCH WITH WATER AFTER THE FABRIC AND LINER HAVE BEEN INSTALLED TO ENSURE THERE ARE NO LEAKS IN THE LINER PRIOR TO INSTALLING THE STONE, CHAMBER AND BACKFILL.



	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
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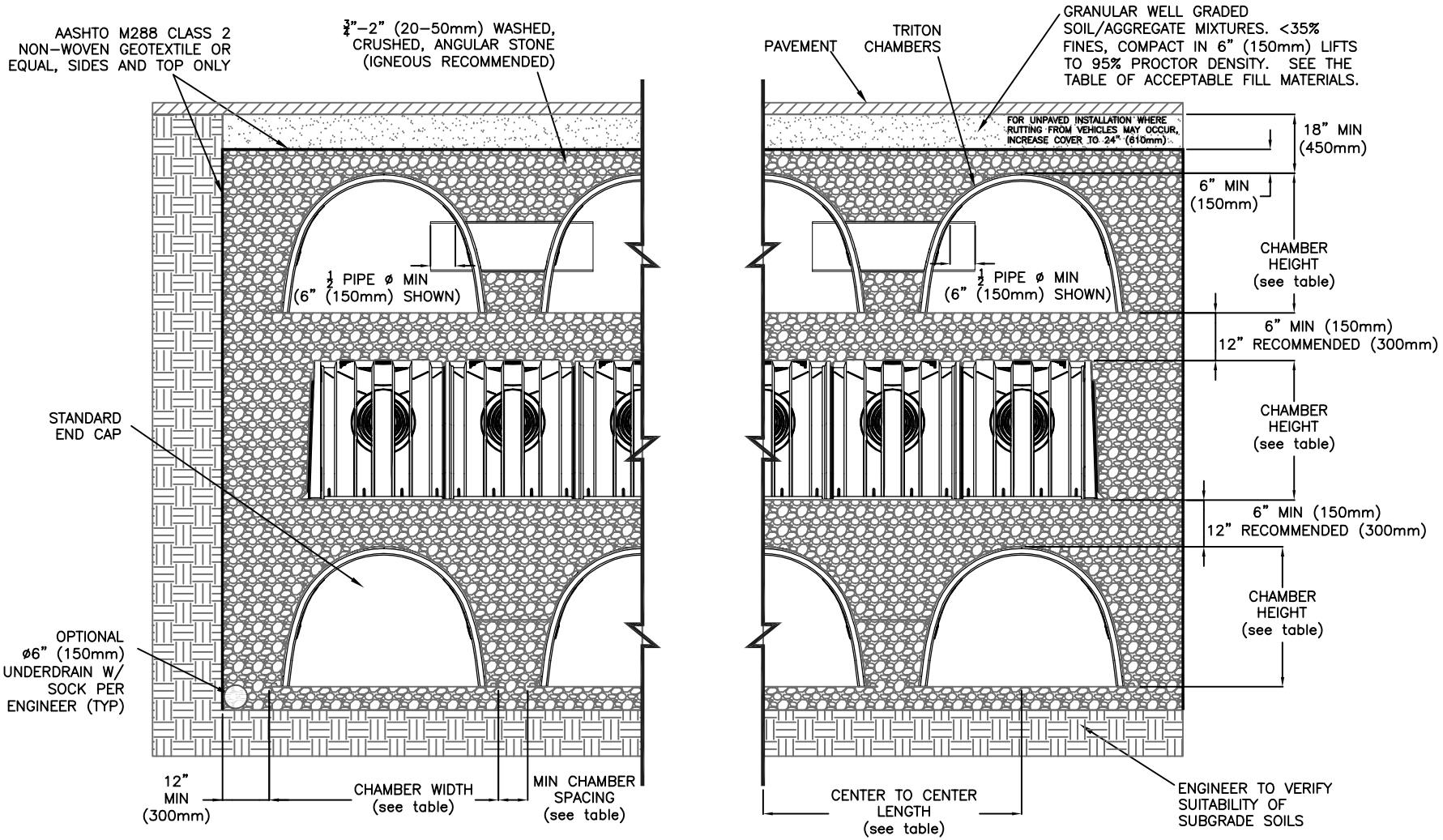
DOUBLE STACK CROSS SECTION

DETENTION - WITH IMPERMEABLE LINER

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM



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*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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TRIPLE STACK CROSS SECTION

INFILTRATION

TRITON - STANDARD DETAILS

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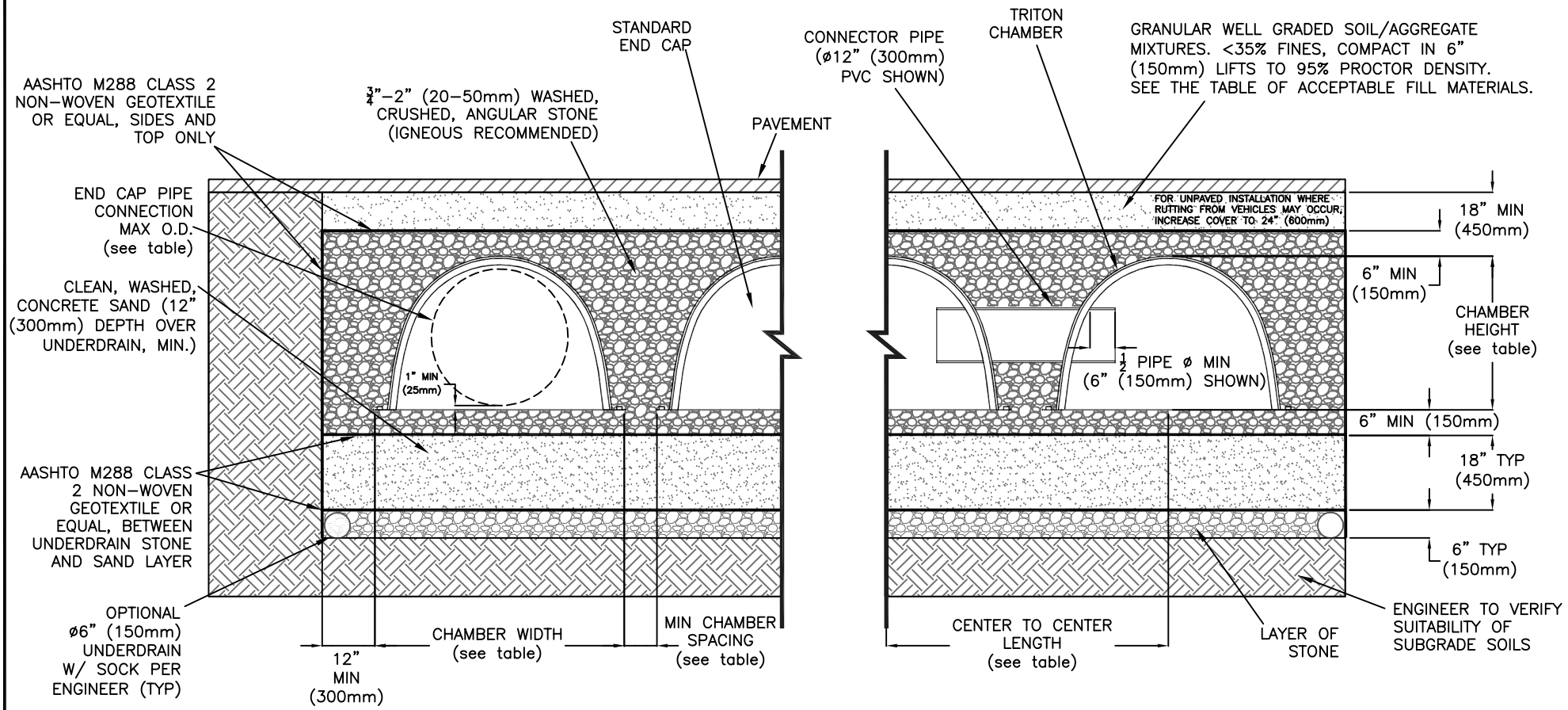

	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
S29	59" (1499mm)	6.0" (150mm) *7.5" (190mm)	66.5" (1690mm)	36" (914mm)	32" (813mm)
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*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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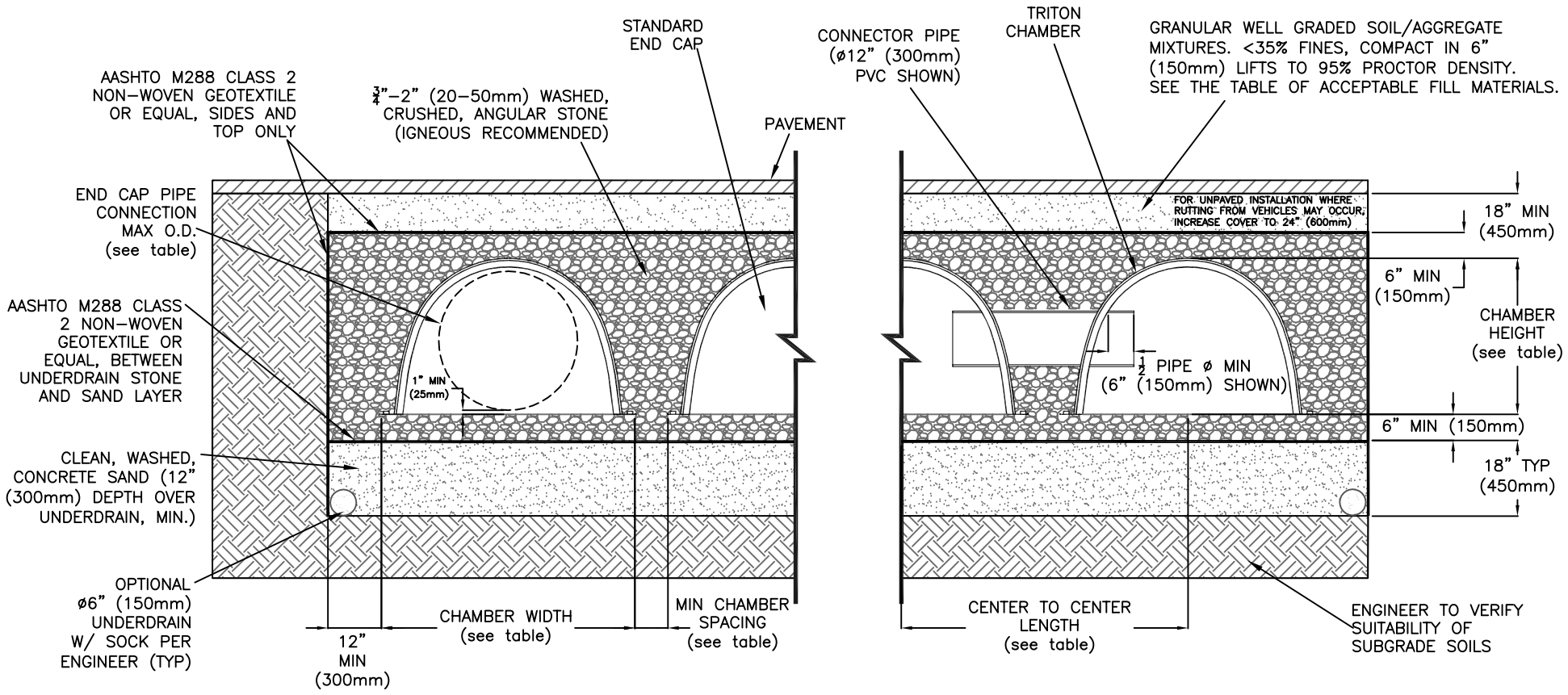
TRITON CROSS SECTION

WITH SAND FILTRATION LAYER - DEEP PROFILE OPTION

TRITON - STANDARD DETAILS

REVISED: 02-26-16 JWM



	CHAMBER WIDTH	CHAMBER SPACING	CENTER TO CENTER LENGTH	CHAMBER HEIGHT	MAX END CAP CONNECTION
S29	59" (1499mm)	6.0" (150mm) *7.5" (190mm)	66.5" (1690mm)	36" (914mm)	32" (813mm)
S22	55" (1397mm)	6.0" (150mm)	61.0" (1549mm)	35" (889mm)	30" (762mm)
C10	39.7" (1008mm)	6.0" (150mm)	45.7" (1161mm)	25" (635mm)	20" (508mm)
M6	33.6" (853mm)	6.0" (150mm)	39.6" (1006mm)	17.5" (445mm)	14" (356mm)

*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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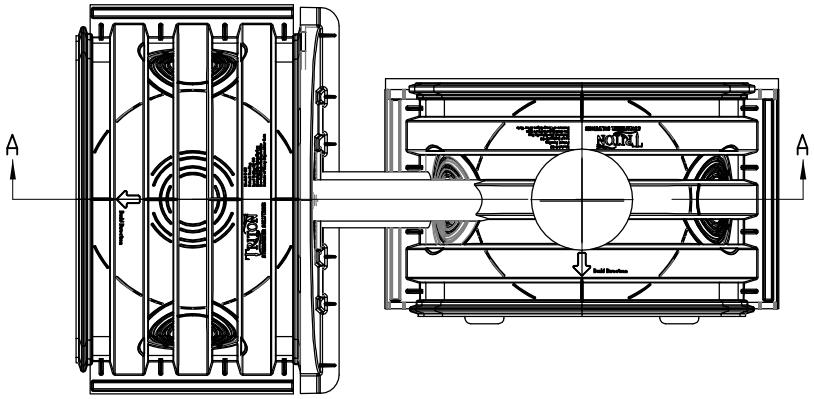
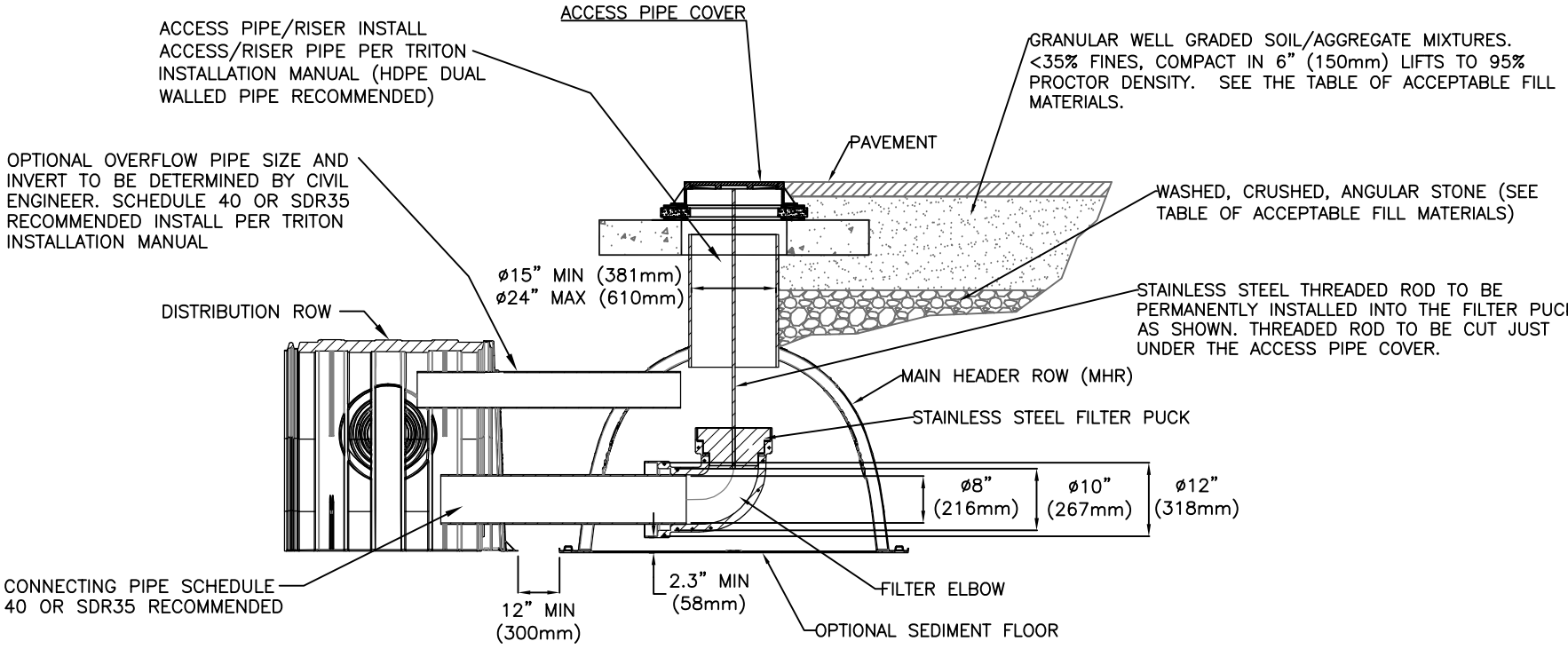
TRITON CROSS SECTION

WITH SAND FILTRATION LAYER - LOW PROFILE OPTION

TRITON - STANDARD DETAILS

REVISED:
02-26-16 JWM





SECTION A–A

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TRITON FILTER PUCK

UPRIGHT ORIENTATION - S29 & S22 CHAMBERS

TRITON - STANDARD DETAILS

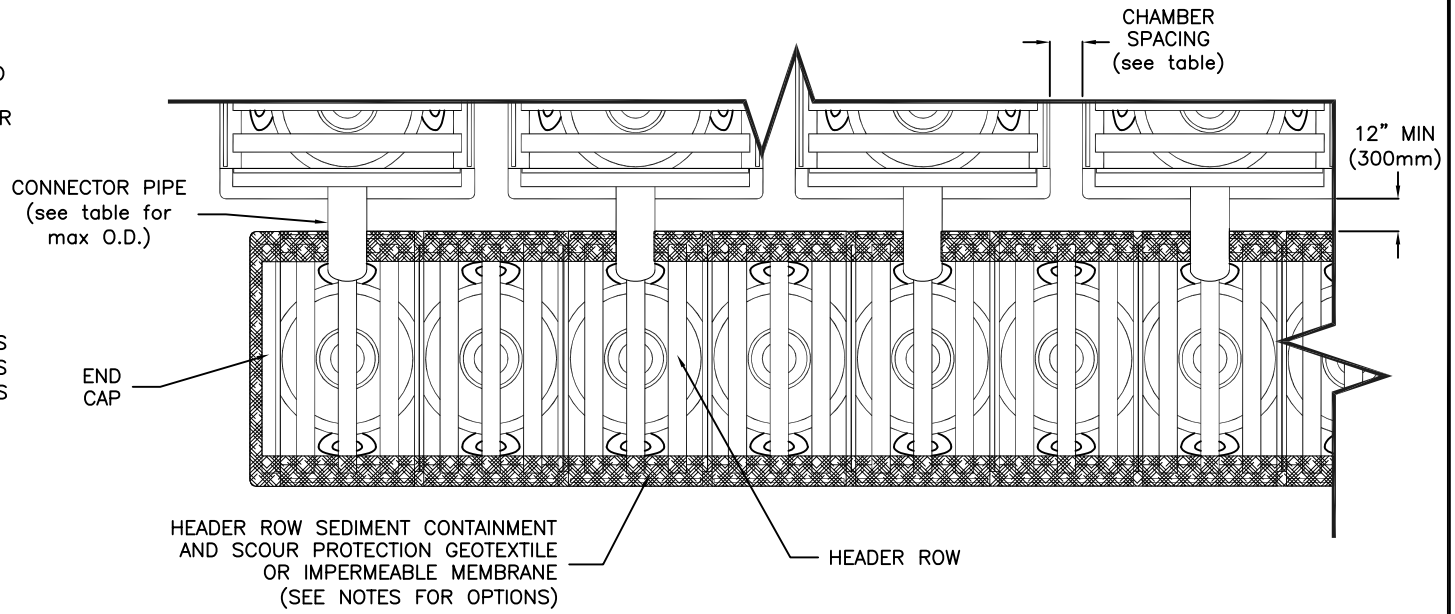
REVISED:
01-28-16 JWM

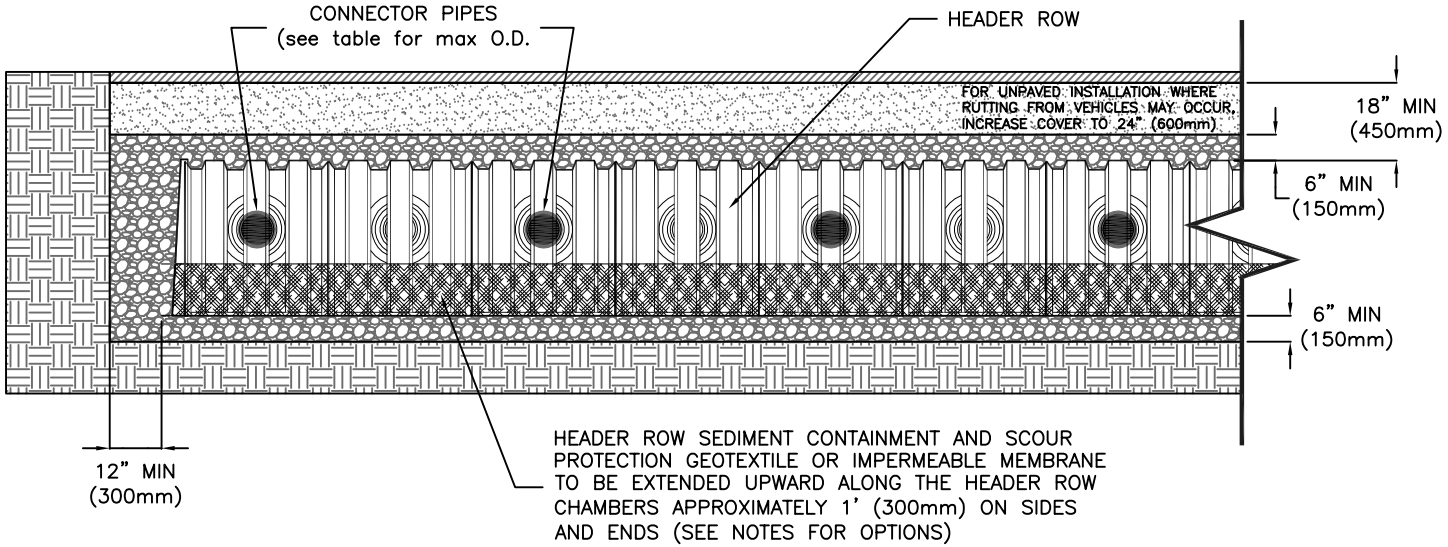
NOTES:

- TRITON HEADER ROW SEDIMENT CONTAINMENT AND SCOUR PROTECTION OPTIONS:
  - SEDIMENT FLOORS PLACED ABOVE ONE LAYER OF AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE OR EQUAL.
  - IMPERMEABLE MEMBRANE.
  - TWO LAYERS OF AASHTO M288 CLASS 1 WOVEN GEOTEXTILE OR EQUAL.
- GEOTEXTILE OR IMPERMEABLE MEMBRANE TO BE PLACED AS ONE PIECE, LENGTHWISE ABOVE BASE STONE:
  - 7.0' (210 mm) WIDTH FOR S-29 CHAMBERS
  - 7.0' (210 mm) WIDTH FOR S-22 CHAMBERS
  - 5.5' (180 mm) WIDTH FOR C-10 CHAMBERS
  - 5.0' (150 mm) WIDTH FOR M-6 CHAMBERS
- SEE ACCESS DETAIL FOR TRITON HEADER ROW ACCESS

	MAX DIAMETER FOR CONNECTOR PIPE	CHAMBER SPACING
S29	18" (450mm)	6.0" (150mm) *7.5" (190mm)
S22	18" (450mm)	6" (150mm)
C10	12" (300mm)	6" (150mm)
M6	8" (200mm)	6" (150mm)

*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)





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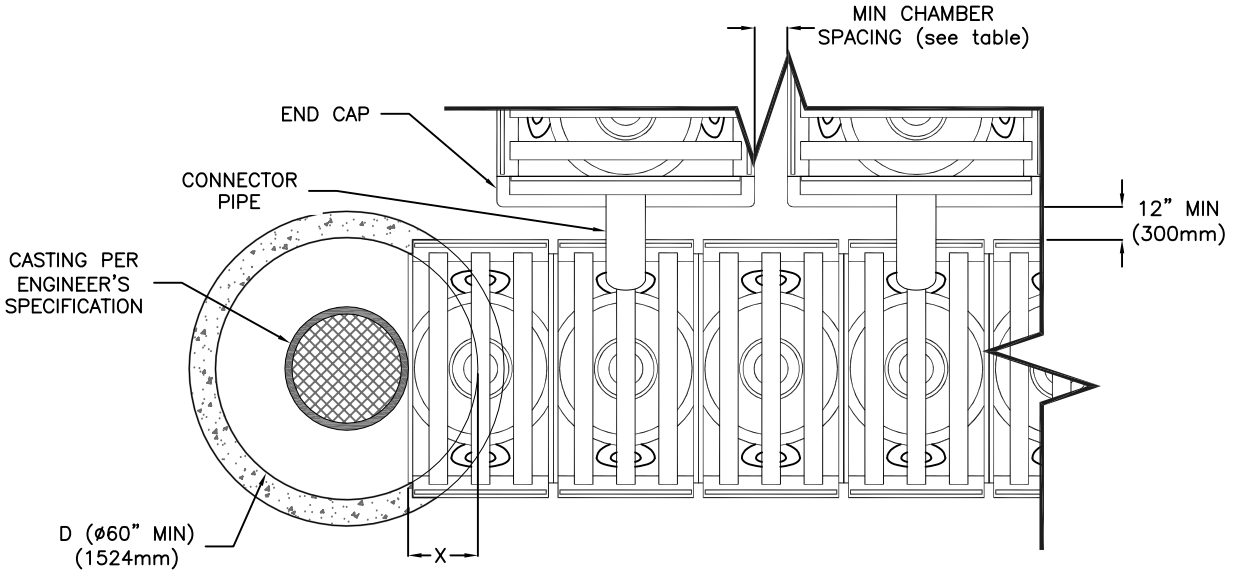
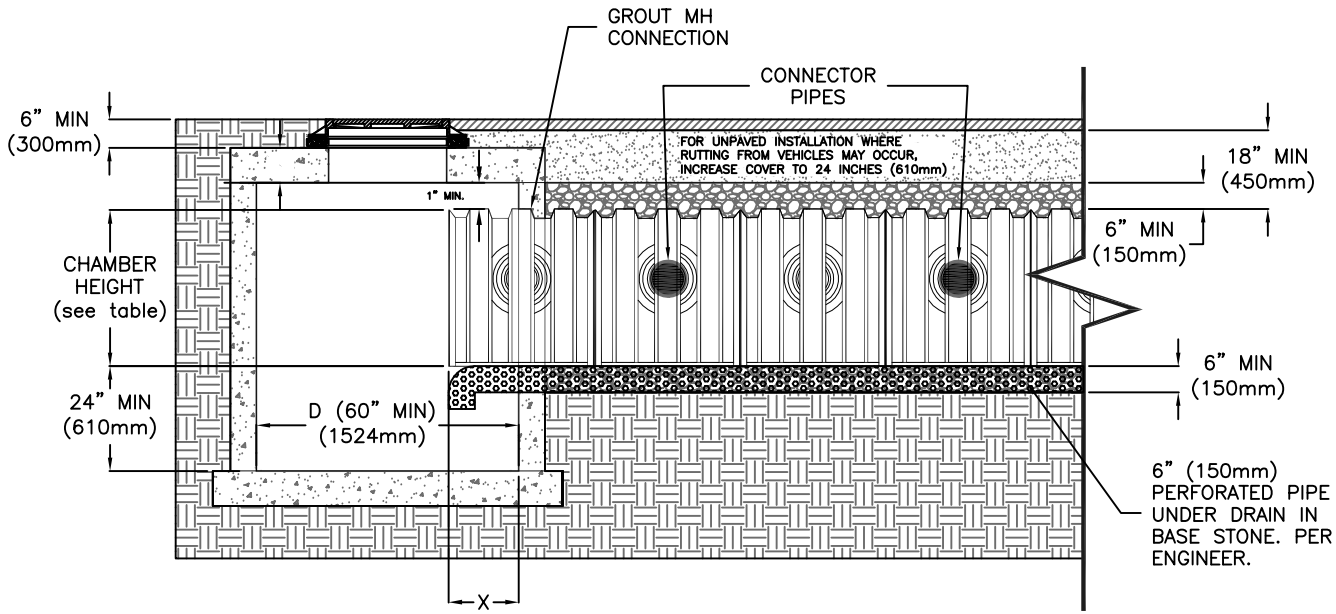
TRITON MAIN HEADER ROW

TRITON - STANDARD DETAILS

REVISED:
01-28-16 JWM

MANHOLE DIAMETER, D	TOP SLAB THICKNESS, T (TYP.)	CHAMBER INSERTION DISTANCE, X (MIN.)
60"	8"	16"
72"	8"	12"
84"	8"	10"
96"	8"	9"
≥108"	12"	8"





	MAX DIAMETER FOR CONNECTOR PIPE	CHAMBER SPACING	CHAMBER HEIGHT
S29	18" (450mm)	6.0" (150mm) *7.5" (190mm)	36" (914mm)
S22	18" (450mm)	6" (150mm)	35" (889mm)
C10	12" (300mm)	6" (150mm)	25" (635mm)
M6	8" (200mm)	6" (150mm)	17.5" (445mm)

*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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HEADER ROW ACCESS

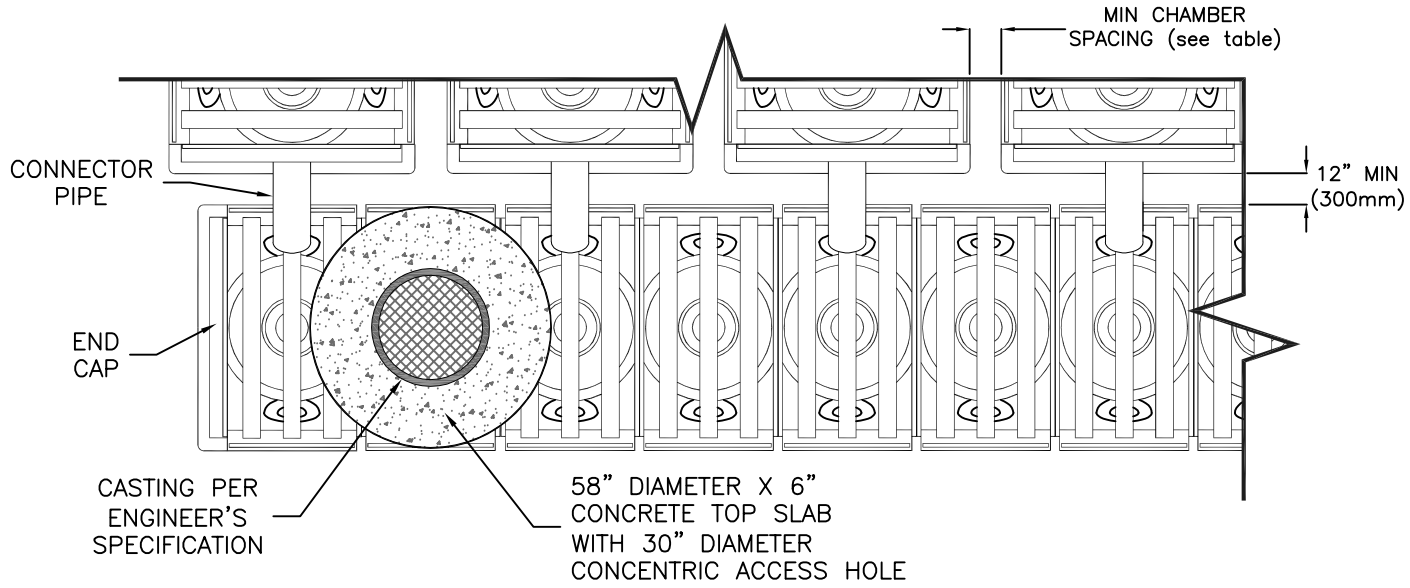
DIRECT MH CONNECTION

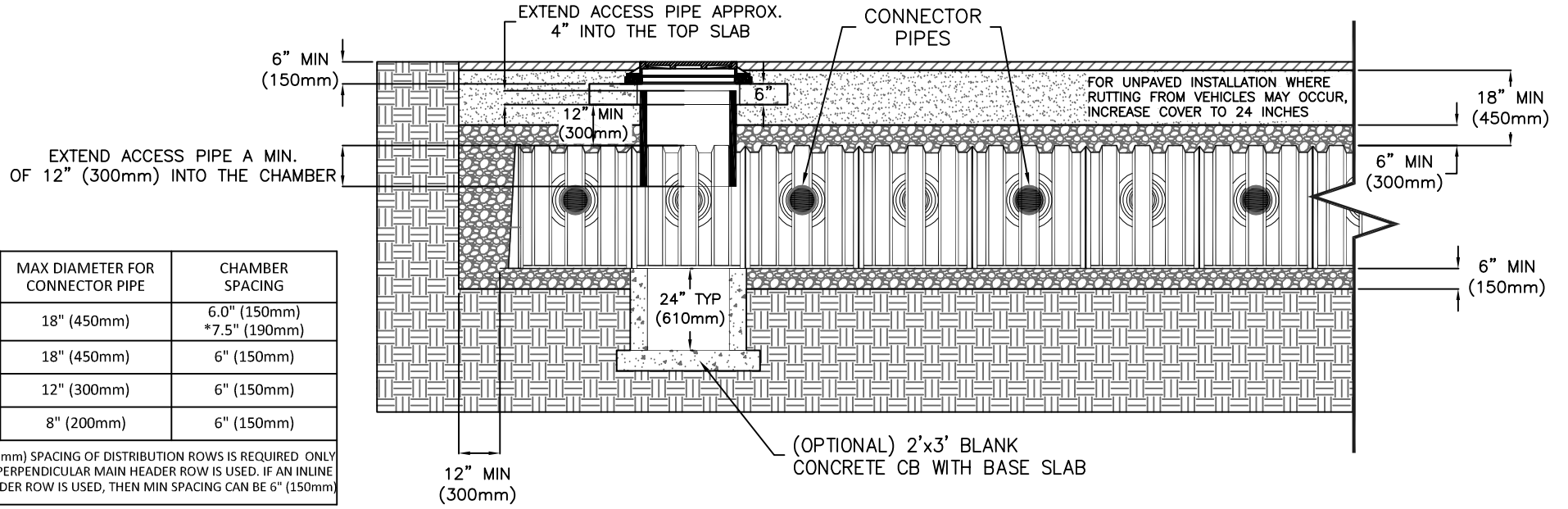
TRITON - STANDARD DETAILS

REVISED: 01-28-16 JWM

NOTES:

1. 24" (610mm) MINIMUM DEPTH REQUIRED BETWEEN CASTING RIM AND TOP OF CHAMBERS (ASSUMING 4" (102mm) LOW–PROFILE CASTING WITH 1 ADJUSTING RING).
2. CONNECT STANDPIPE TO CHAMBER PER LATEST INSTALLATION INSTRUCTIONS.
3. CONNECTION OF THE STANDPIPE TO THE TOP SLAB IS TYPICALLY NOT NECESSARY. IF A CONNECTION IS DETERMINED TO BE NECESSARY, A FLEXIBLE CONNECTION IS REQUIRED.





	MAX DIAMETER FOR CONNECTOR PIPE	CHAMBER SPACING
S29	18" (450mm)	6.0" (150mm) *7.5" (190mm)
S22	18" (450mm)	6" (150mm)
C10	12" (300mm)	6" (150mm)
M6	8" (200mm)	6" (150mm)

*7.5" (190mm) SPACING OF DISTRIBUTION ROWS IS REQUIRED ONLY WHEN A PERPENDICULAR MAIN HEADER ROW IS USED. IF AN INLINE MAIN HEADER ROW IS USED, THEN MIN SPACING CAN BE 6" (150mm)

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HEADER ROW ACCESS

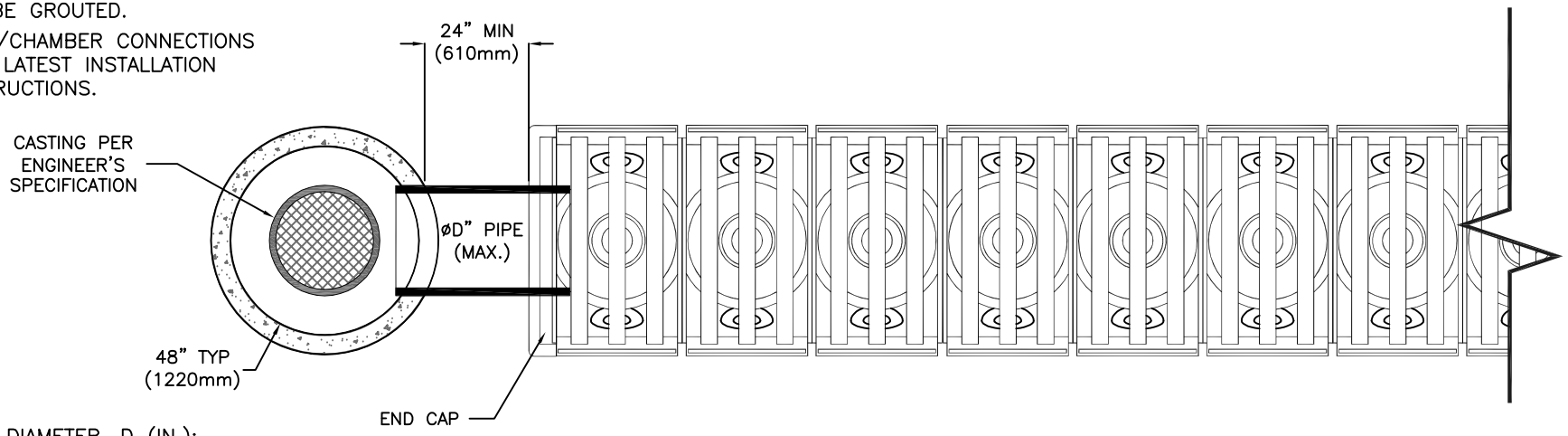
INSPECTION/DIRECT TOP MH CONNECTION

TRITON - STANDARD DETAILS

REVISED: 01-28-16 JWM

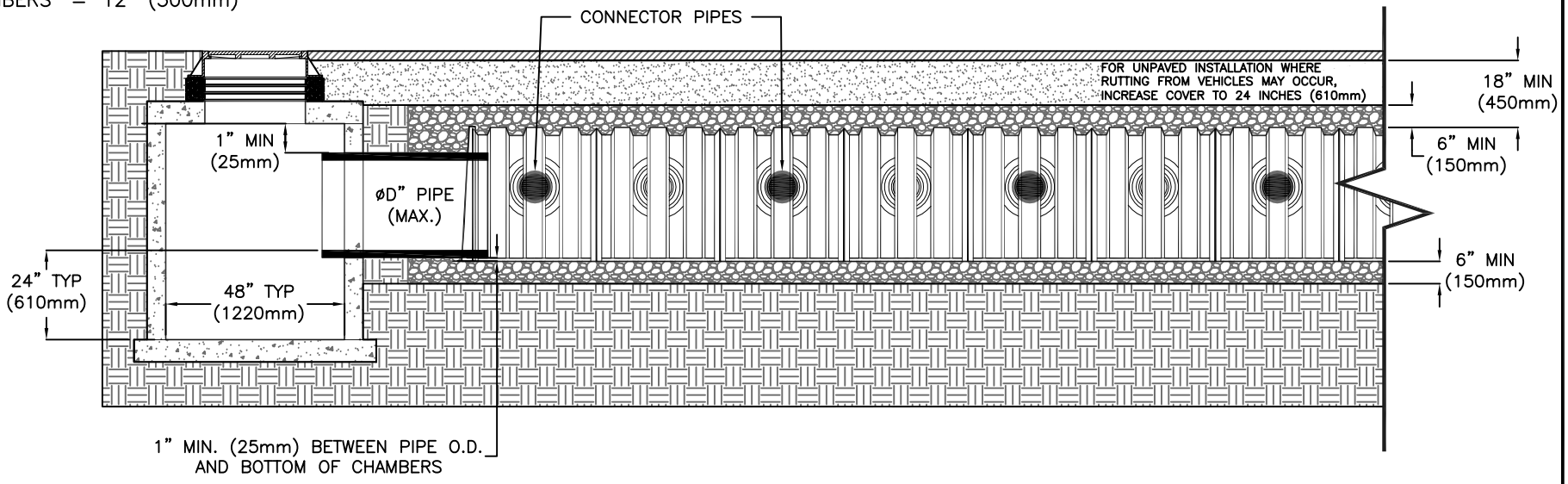
NOTES:

1. PIPE/MANHOLE CONNECTIONS TO BE GROUTED.
2. PIPE/CHAMBER CONNECTIONS PER LATEST INSTALLATION INSTRUCTIONS.



MAX PIPE DIAMETER, D (IN.):

- S–29 CHAMBERS = 24" (610mm)
- S–22 CHAMBERS = 24" (610mm)
- C–10 CHAMBERS = 18" (450mm)
- M–6 CHAMBERS = 12" (300mm)



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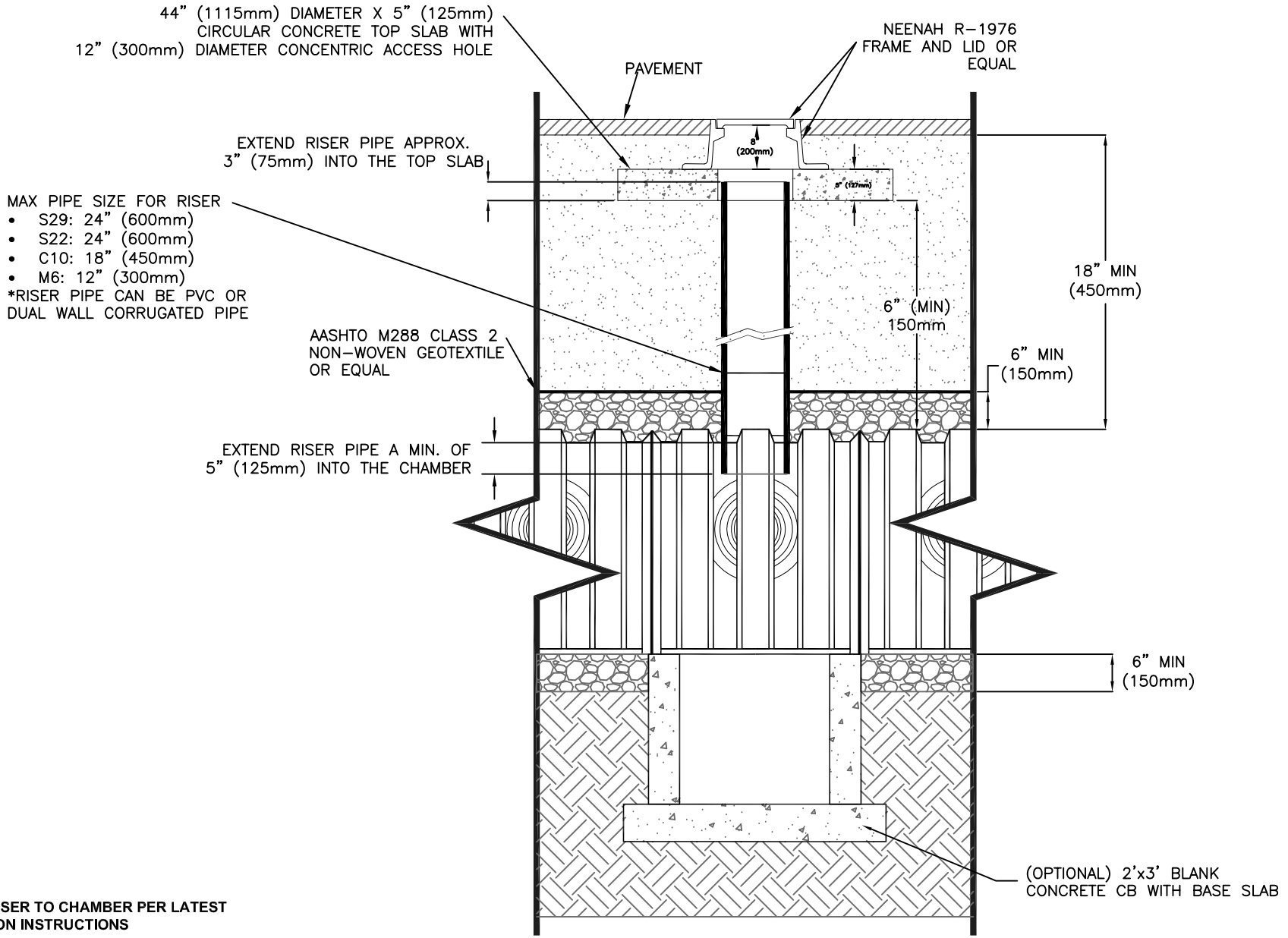
HEADER ROW ACCESS

STANDARD MH CONNECTION

TRITON - STANDARD DETAILS

REVISED:
01-28-16 JWM



NOTES:

1. **CONNECT RISER TO CHAMBER PER LATEST INSTALLATION INSTRUCTIONS**

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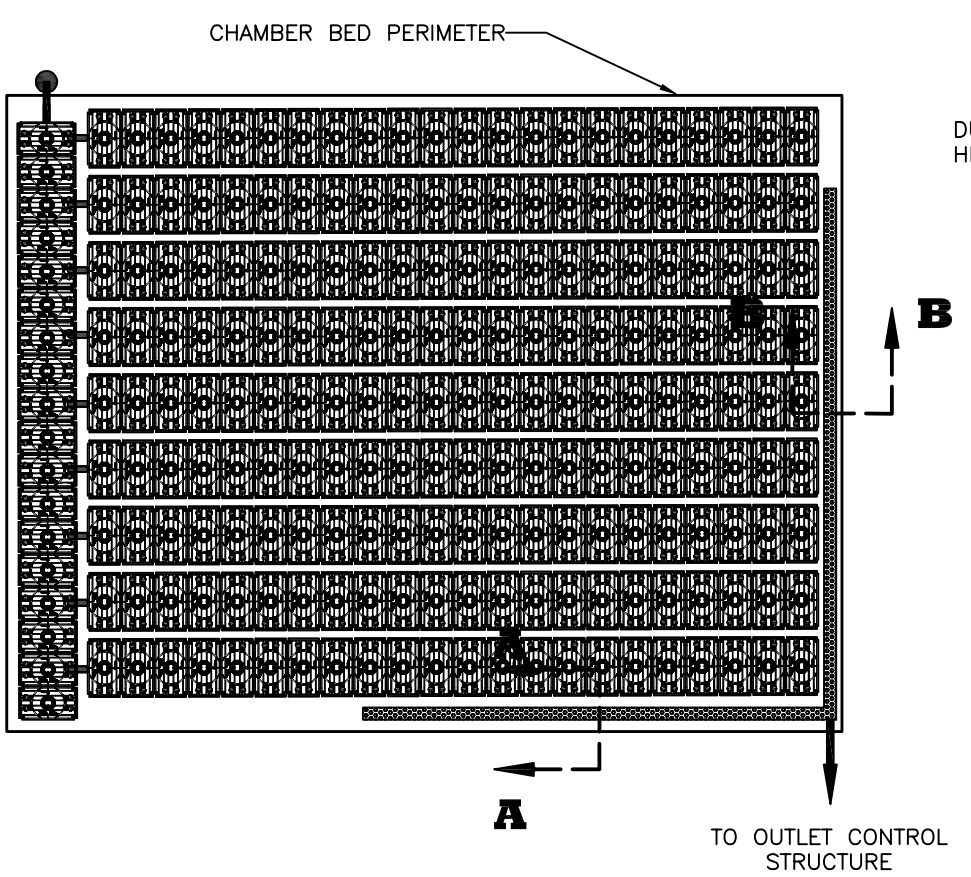
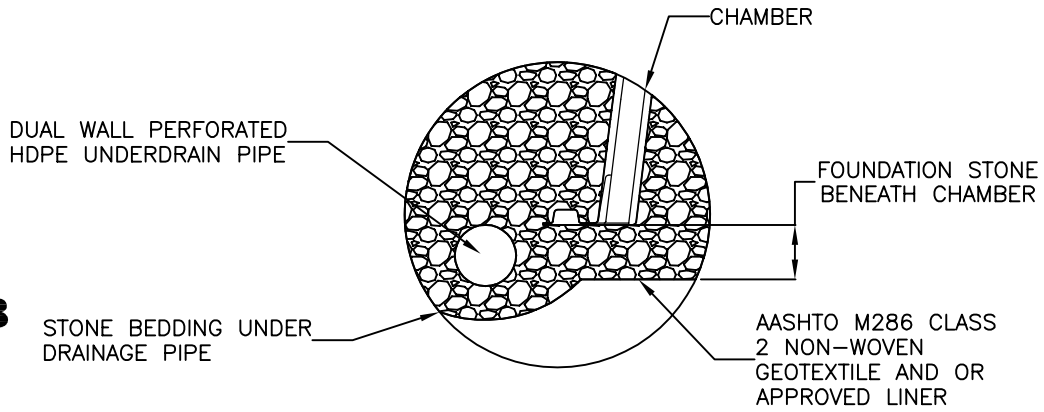
TRITON TOP ACCESS

SMALL DIAMETER CONNECTION

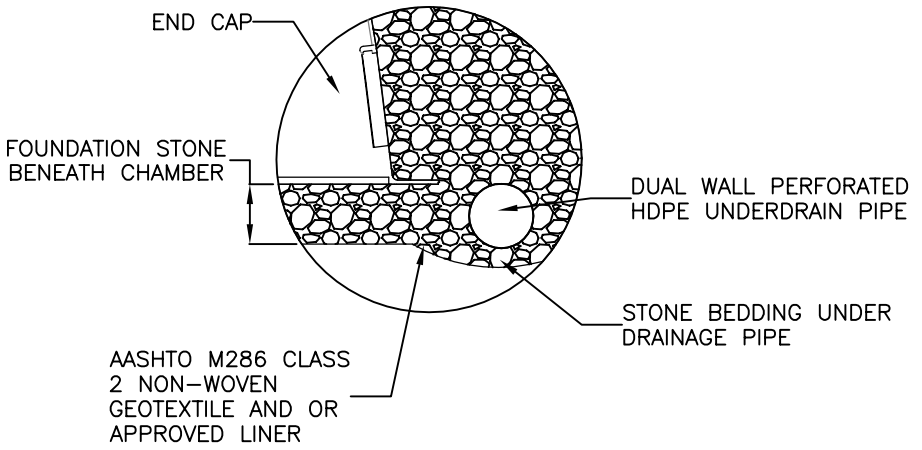
TRITON - STANDARD DETAILS

REVISED:
01-28-16 JWM





SECTION A–A



SECTION B–B

CONCEPTUAL PLAN DISCLAIMER

THIS GENERIC DETAIL DOES NOT ENCOMPASS THE SIZING, FIT, AND APPLICABILITY OF THE TRITON CHAMBER SYSTEM FOR THIS SPECIFIC PROJECT. IT IS THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGUALTIONS. TRITON PRODUCTS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH TRITON'S MINIMUM REQUIREMENTS. TRITON STORMWATER SOLUTIONS DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGN ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS.

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UNDER DRAIN DETAIL

TRITON - STANDARD DETAILS

REVISED:
01-28-16 JWM