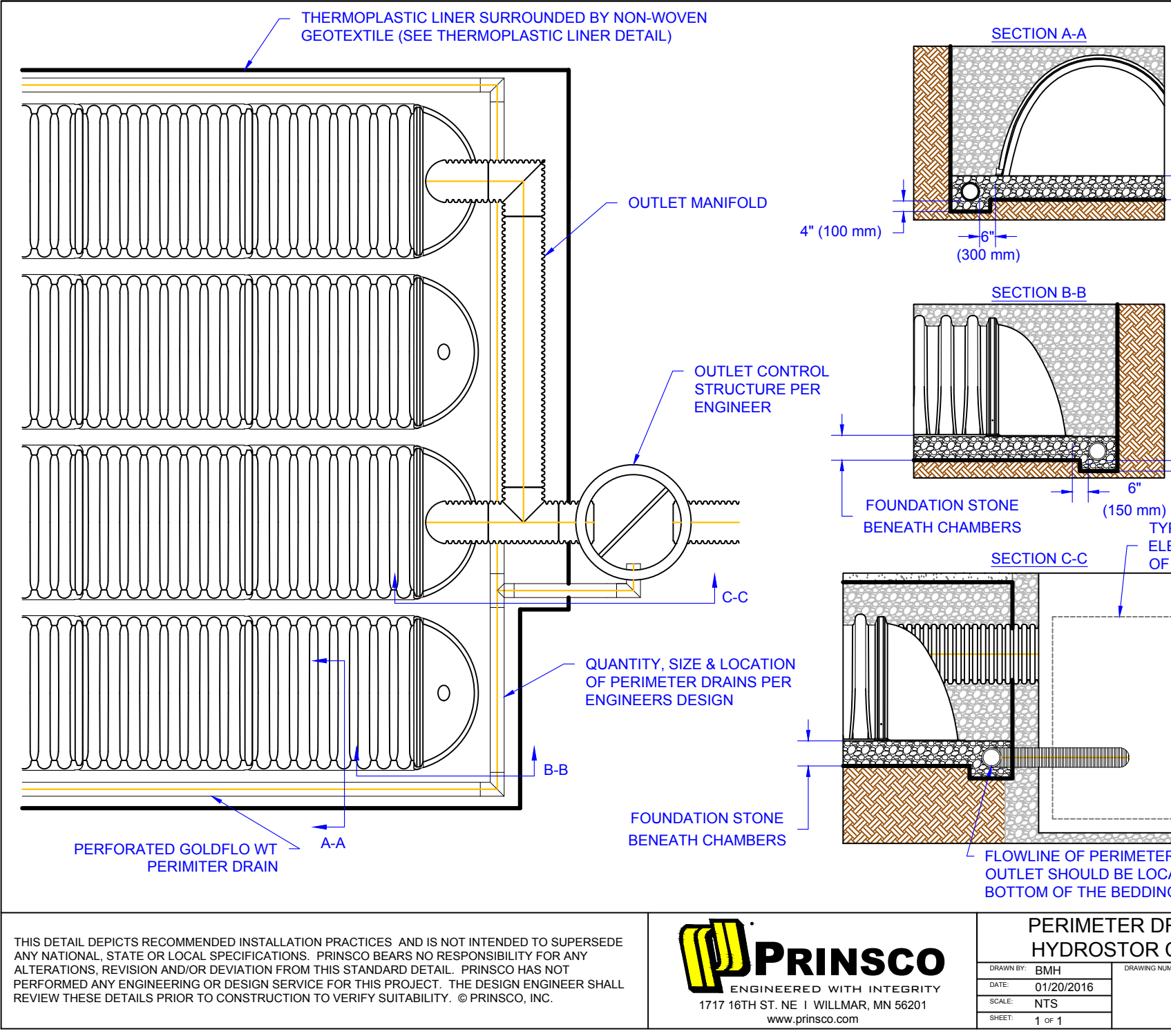
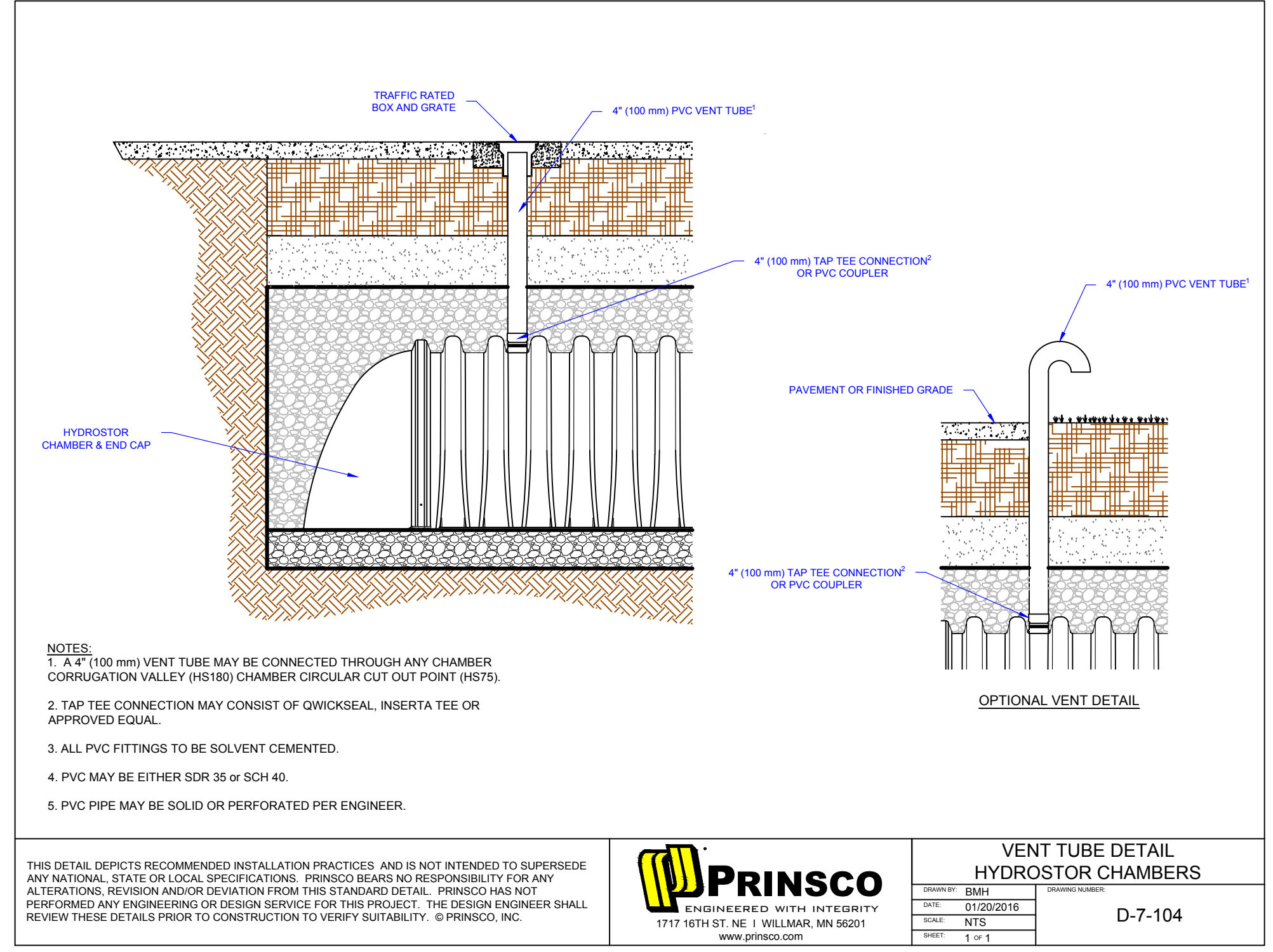
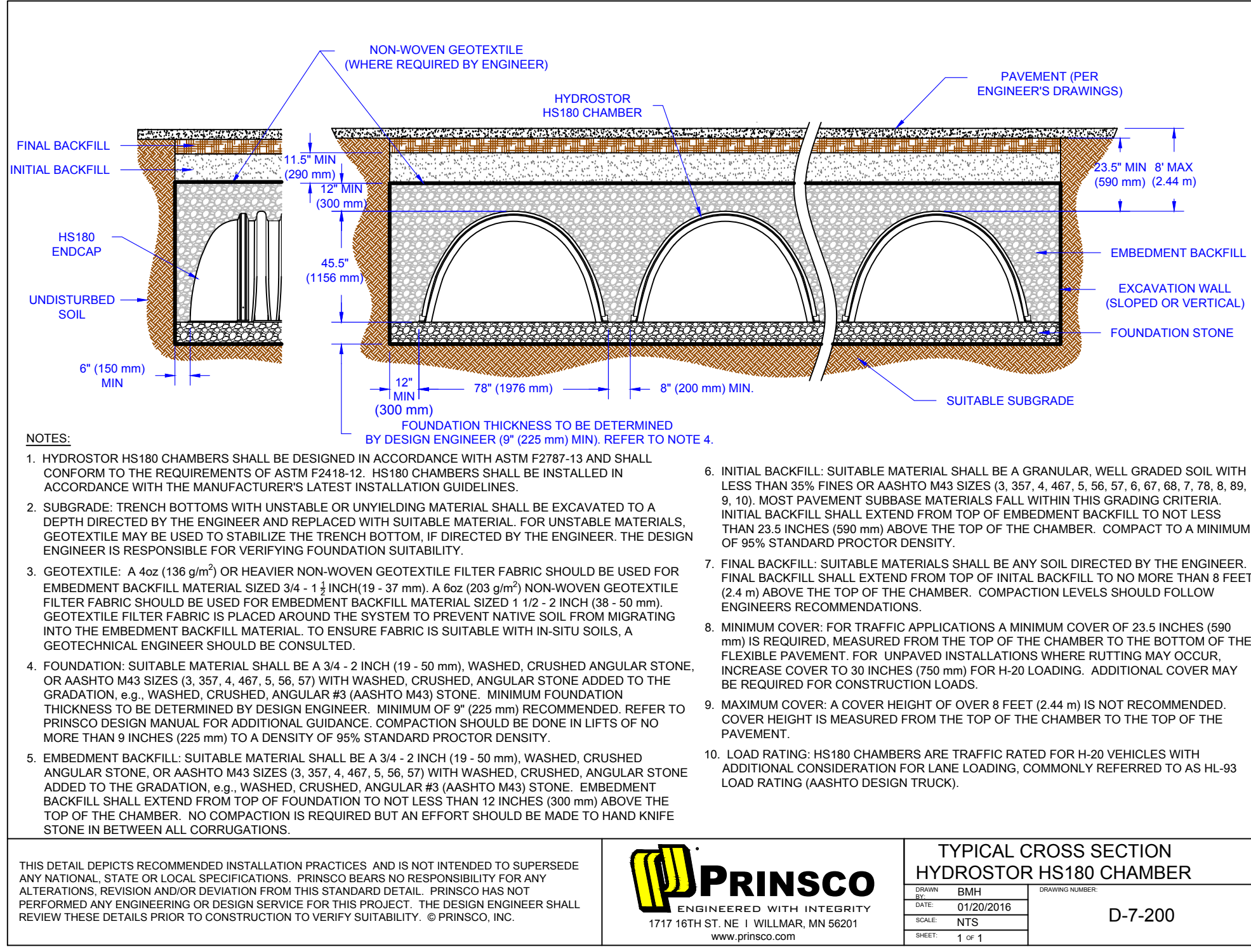


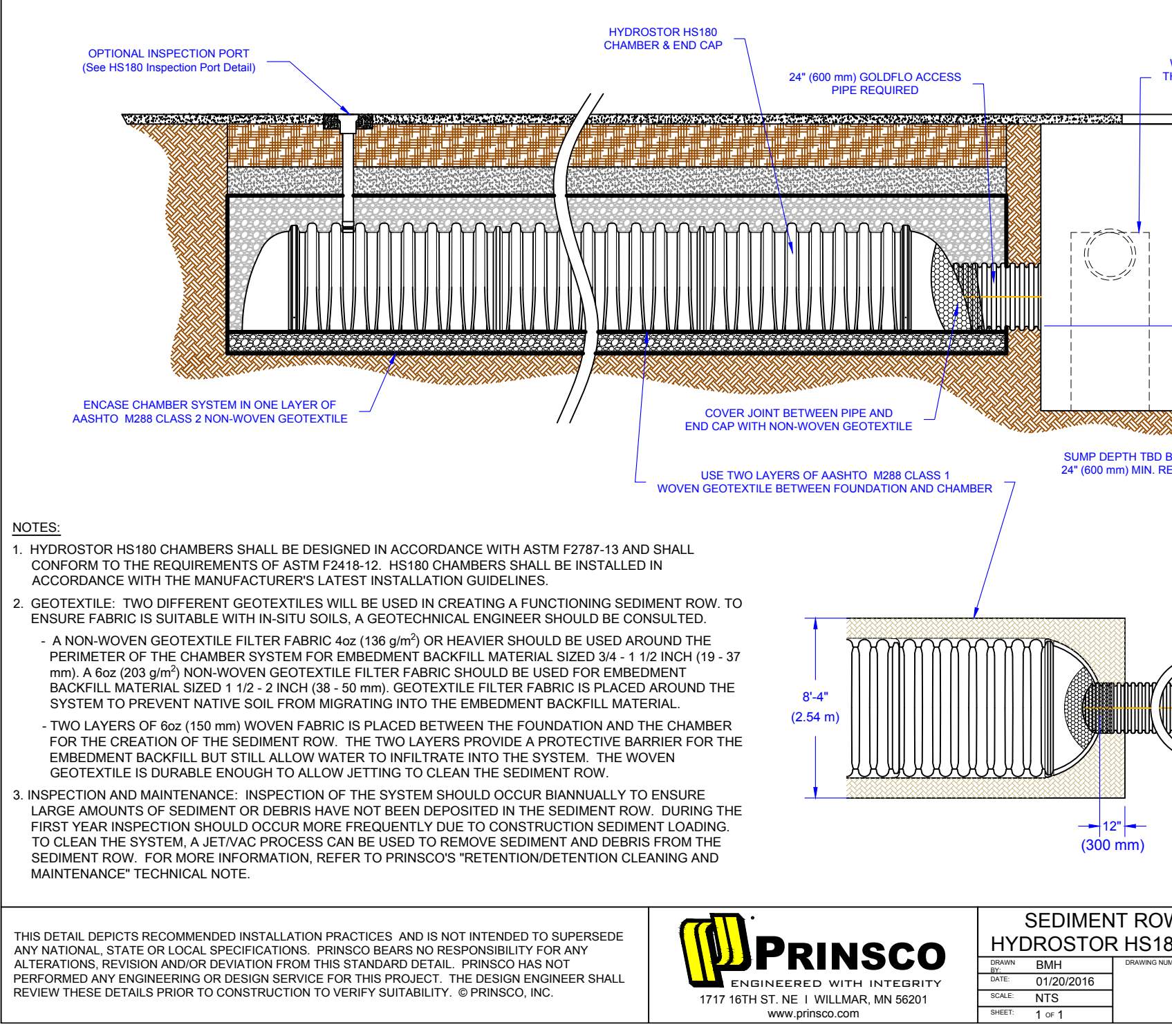
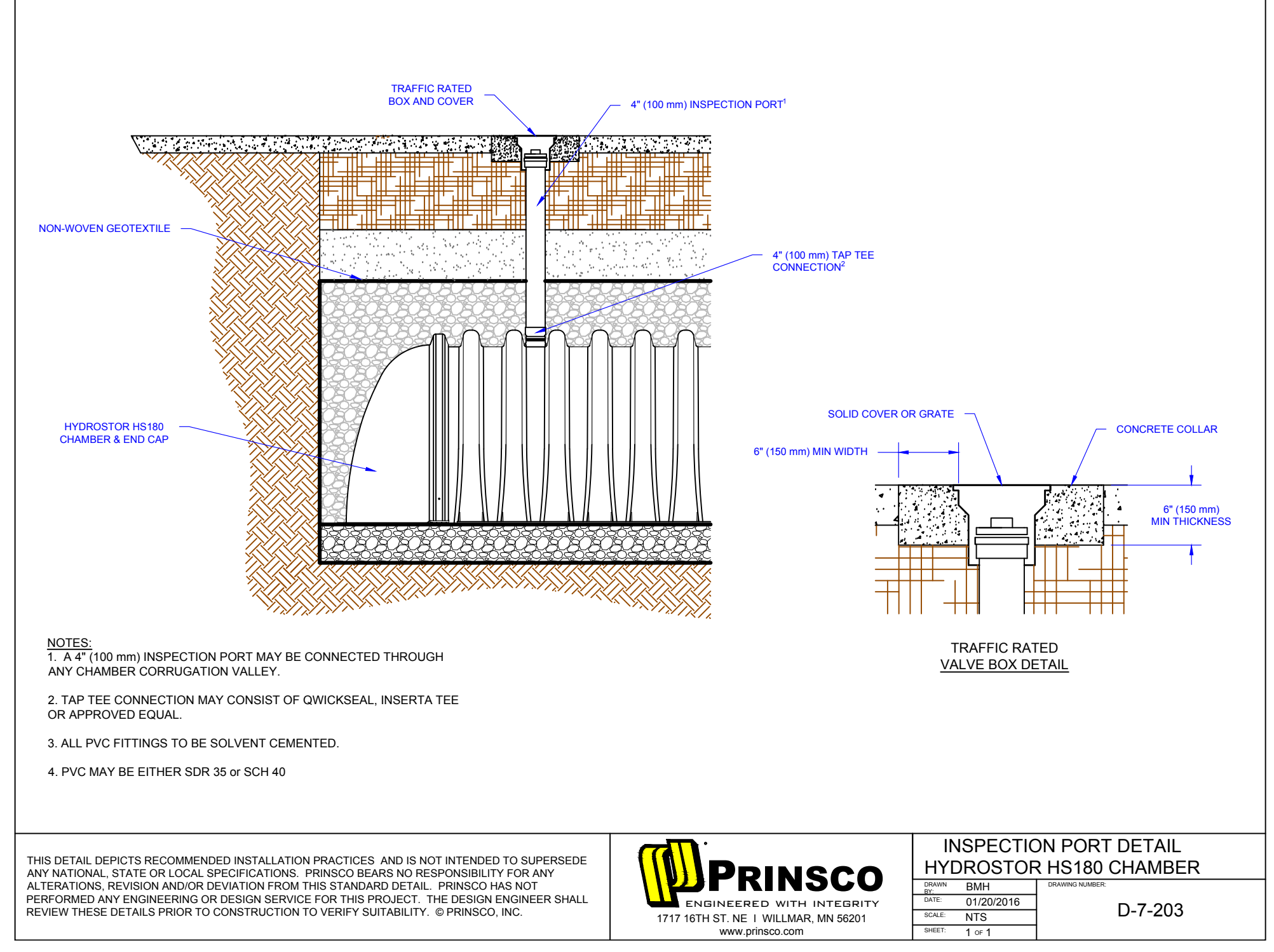
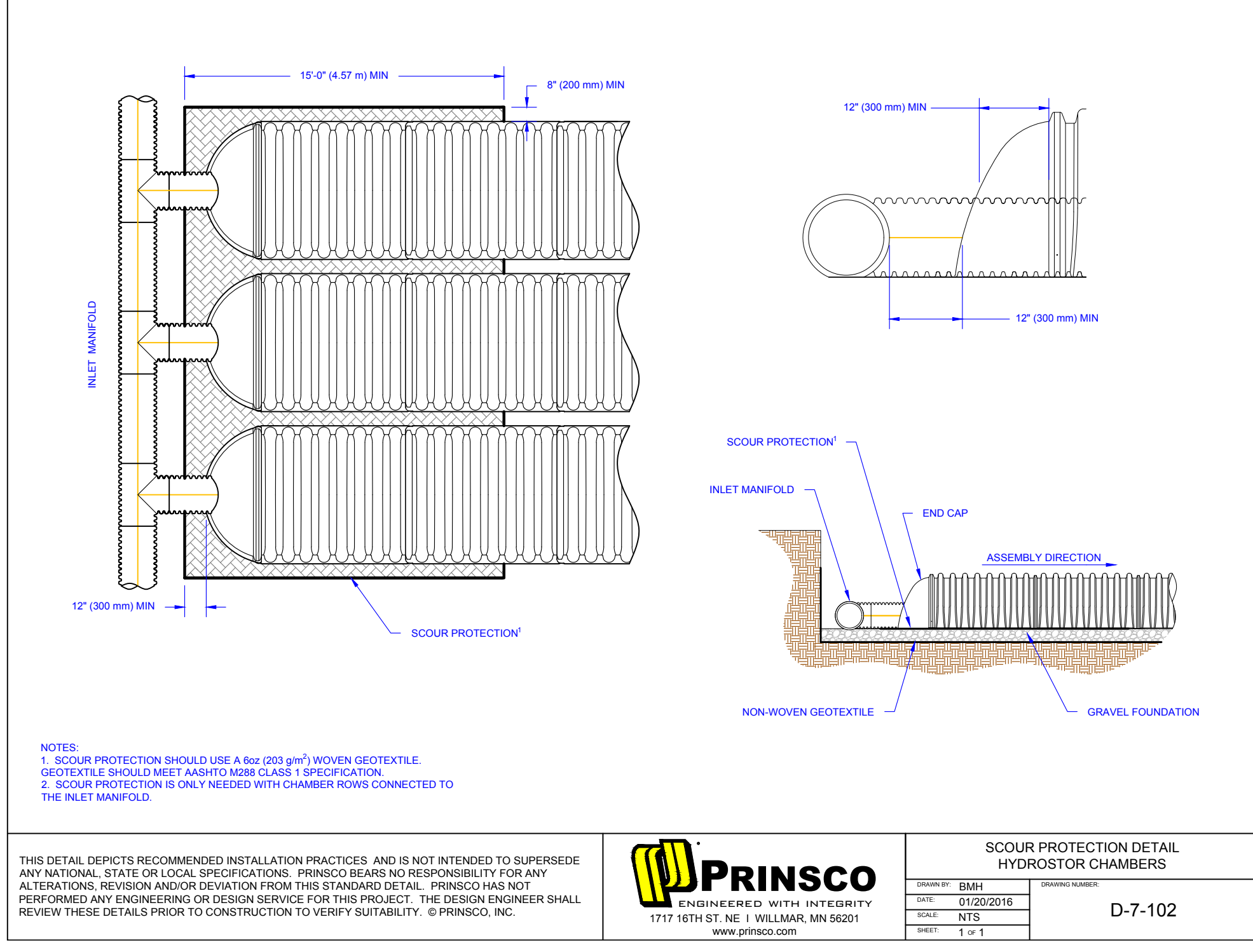
GENERAL NOTES:

- THE INSTALLATION FOR THE LATEST HYDROSTOR CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST HYDROSTOR INSTALLATION INSTRUCTIONS.
- THE CONTRACTORS ARE ADVISED TO REVIEW AND UNDERSTAND THE INSULATION INSTRUCTIONS BEFORE BEGINNING SYSTEM INSTALLATION. VISIT PRINSCO.COM OR CALL 800-892-1725 TO RECEIVE A COPY OF THE LATEST HYDROSTOR INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR IS REQUIRED TO CALL THEIR LOCAL SALES REPRESENTATIVE TO SCHEDULE A FREE PRE-CONSTRUCTION MEETING WITH THE MANUFACTURER.



GENERAL NOTES:

- HYDROSTOR HS180 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787-13 AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418-12. HS180 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION GUIDELINES.
- SUBGRADE: TRENCH BOTTOMS WITH UNSTABLE OR UNLEVELING MATERIAL SHALL BE EXCAVATED TO A DEPTH DIRECTED BY THE ENGINEER AND REPLACED WITH SUITABLE MATERIAL. FOR UNSTABLE MATERIALS, GEOTEXTILE MAY BE USED TO STABILIZE THE TRENCH BOTTOM, IF DIRECTED BY THE ENGINEER. THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING FOUNDATION SUITABILITY.
- GEOTEXTILE: A 4oz (136 g/m²) OR HEAVIER NON-WOVEN GEOTEXTILE FILTER FABRIC SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL. A 6oz (203 g/m²) NON-WOVEN GEOTEXTILE FILTER FABRIC SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL. GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE SYSTEM TO PREVENT NATIVE SOIL FROM MIGRATING INTO THE EMBEDMENT BACKFILL MATERIAL TO ENSURE FABRIC IS SUITABLE WITH IN-SITU SOILS. A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
- FOUNDATION: SUITABLE MATERIAL SHALL BE A 3/4 - 2 INCH (19 - 50 mm), WASHED, CRUSHED ANGULAR STONE, OR ASHTO M3 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #5 (ASHTO) M33 STONE. MINIMUM FOUNDATION THICKNESS TO BE DETERMINED BY DESIGN ENGINEER. MINIMUM OF 9" (225 mm) RECOMMENDED. REFER TO PRINSCO DESIGN MANUAL FOR ADDITIONAL GUIDANCE. COMPACTION SHOULD BE DONE IN LIFTS OF NO MORE THAN 8 INCHES (225 mm) TO A DENSITY OF 95% STANDARD PROCTOR DENSITY.
- EMBEDMENT BACKFILL: SUITABLE MATERIAL SHALL BE A 3/4 - 2 INCH (19 - 50 mm), WASHED, CRUSHED ANGULAR STONE, OR ASHTO M3 SIZES (3, 357, 4, 467, 5, 56, 57) WITH WASHED, CRUSHED ANGULAR STONE ADDED TO THE GRADATION, e.g., WASHED, CRUSHED, ANGULAR #5 (ASHTO) M33 STONE. EMBEDMENT BACKFILL SHALL EXTEND FROM TOP OF FOUNDATION TO NOT LESS THAN 12 INCHES (300 mm) ABOVE THE TOP OF THE CHAMBER. NO COMPACTION IS REQUIRED BUT AN EFFORT SHOULD BE MADE TO HAND KNIFE STONE IN BETWEEN ALL CORRUGATIONS.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE A GRANULAR, WELL GRADED SOIL WITH LESS THAN 35% FINES OR ASHTO M43 SIZES (3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10). MOST PAVEMENT SUBBASE MATERIALS FALL WITHIN THIS GRADING CRITERIA. INITIAL BACKFILL SHALL EXTEND FROM TOP OF EMBEDMENT BACKFILL TO NOT LESS THAN 23.5 INCHES (590 mm) ABOVE THE TOP OF THE CHAMBER. COMPACTION LEVELS SHOULD FOLLOW ENGINEER'S RECOMMENDATIONS.
- FINAL BACKFILL: SUITABLE MATERIALS SHALL BE ANY SOIL DIRECTED BY THE ENGINEER. FINAL BACKFILL SHALL EXTEND FROM TOP OF INITIAL BACKFILL TO NO MORE THAN 8 FEET (2.4 m) ABOVE THE TOP OF THE CHAMBER. COMPACTION LEVELS SHOULD FOLLOW ENGINEER'S RECOMMENDATIONS.
- MINIMUM COVER: FOR TRAFFIC APPLICATIONS A MINIMUM COVER OF 23.5 INCHES (590 mm) IS REQUIRED, MEASURED FROM THE TOP OF THE CHAMBER TO THE BOTTOM OF THE FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING MAY OCCUR, INCREASE COVER TO 30 INCHES (760 mm) FOR H-20 LOADING. ADDITIONAL COVER MAY BE REQUIRED FOR CONSTRUCTION LOADS.
- MAXIMUM COVER: A COVER HEIGHT OF OVER 8 FEET (2.44 m) IS NOT RECOMMENDED. COVER HEIGHT IS MEASURED FROM THE TOP OF THE CHAMBER TO THE TOP OF THE PAVEMENT.
- LOAD RATINGS: HS180 CHAMBERS ARE TRAFFIC RATED FOR H-20 VEHICLES WITH ADDITIONAL CONSIDERATION FOR LANE LOADING, COMMONLY REFERRED TO AS HL-93 LOAD RATING (ASHTO DESIGN TRUCK).
- PVC MAY BE EITHER SDR 35 or SCH 40.
- PVC PIPE FITTINGS TO BE SOLVENT CEMENTED.



GENERAL NOTES:

- HYDROSTOR HS180 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787-13 AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418-12. HS180 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION GUIDELINES.
- GEOTEXTILE: TWO DIFFERENT GEOTEXTILES WILL BE USED IN CREATING A FUNCTIONING SEDIMENT ROW. TO ENSURE FABRIC IS SUITABLE WITH IN-SITU SOILS, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED.
 - A NON-WOVEN GEOTEXTILE FILTER FABRIC 4oz (136 g/m²) OR HEAVIER SHOULD BE USED AROUND THE PERIMETER OF THE CHAMBER SYSTEM FOR EMBEDMENT BACKFILL MATERIAL. A 6oz (203 g/m²) NON-WOVEN GEOTEXTILE FILTER FABRIC SHOULD BE USED FOR EMBEDMENT BACKFILL MATERIAL. GEOTEXTILE FILTER FABRIC IS PLACED AROUND THE SYSTEM TO PREVENT NATIVE SOIL FROM MIGRATING INTO THE EMBEDMENT BACKFILL MATERIAL.
 - TWO LAYERS OF 6oz (150 mm) WOVEN FABRIC IS PLACED BETWEEN THE FOUNDATION AND THE CHAMBER FOR THE CREATION OF THE SEDIMENT ROW. THE TWO LAYERS PROVIDE A PROTECTIVE BARRIER FOR THE EMBEDMENT BACKFILL BUT STILL ALLOW WATER TO INFILTRATE INTO THE SYSTEM. THE WOVEN GEOTEXTILE IS DURABLE ENOUGH TO ALLOW JETTING TO CLEAN THE SEDIMENT ROW.
- INSPECTION AND MAINTENANCE: INSPECTION OF THE SYSTEM SHOULD OCCUR BIENNIALY TO ENSURE LARGE AMOUNTS OF SEDIMENT OR DEBRIS HAVE NOT BEEN DEPOSITED IN THE SEDIMENT ROW. DURING THE FIRST YEAR INSPECTION SHOULD OCCUR MORE FREQUENTLY DUE TO CONSTRUCTION SEDIMENT LOADING. TO CLEAN THE SYSTEM, A JET/AC PROCESS CAN BE USED TO REMOVE SEDIMENT AND DEBRIS FROM THE SEDIMENT ROW. FOR MORE INFORMATION, REFER TO PRINSCO'S "RETENTION/DETENTION CLEANING AND MAINTENANCE" TECHNICAL NOTE.