

NEW SHOREHAM SEWER DISTRICT

UTILITY STANDARDS

SEWER REQUIREMENTS



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1.0 PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS:

- A. The New Shoreham Board of Sewer Commissioners adopted the following priorities among the existing enactments which affect sewers in the Town of New Shoreham.
 - 1. Public Acts establishing and amending the Sewer District: P.A. Chapter 146 (1972 as amended).
 - 2. Current Management Agreement between the Town of New Shoreham Director of Public Works, the New Shoreham Board of Sewer Commissioners and New Shoreham Board of Water Commissioners.
 - 3. Regulations adopted by the Sewer Commissioners subsequent to the adoption by the Rhode Island General Assembly of P.A. Chapter 146 (1972).
 - 4. Remaining provisions of enactments by the Town of New Shoreham, which are not inconsistent or superseded by the above legal enactments and documents.
- B. Plans, specifications and design calculations for proposed sanitary sewage system(s), except for sanitary service connections, shall be submitted to the Sewer Superintendent for review. Design calculations shall conform to the Department of Environmental Management requirements.
- C. Plans, specifications and calculations for sanitary sewage system extensions shall be prepared and stamped by an Engineer currently registered in the State of Rhode Island.
- D. An Order of Approval shall be obtained from the Department of Environmental Management, when applicable.
- E. Definitions:
 - 1. New Shoreham Board of Sewer Commissioners (NSBSC): The NSBSC are appointed by the Town Council to oversee the operation of the wastewater treatment and collection system.
 - 2. Superintendent: Means the Superintendent of the wastewater treatment facility or his duly appointed representative.

1.02 UNDERGROUND UTILITY CONTRACTOR REQUIREMENTS:

- A. General:
 - 1. The licensed Underground Utility Contractor or Master Plumber shall perform his or her work in the Town of New Shoreham in accordance with all applicable

sections of the New Shoreham Town Ordinance, New Shoreham Sewer Ordinance and the Standard Sanitary Sewer Requirements.

2. The licensed Underground Utility Contractor or Master Plumber shall comply with the requirements of the State of Rhode Island.
- B. An accurate record of all Underground Utility Contractor's licenses shall be kept at the Superintendent's office. Notice must be given to the Superintendent at least 24 hours prior to the beginning of any work on a sewer. No inspections will be scheduled until the permit application has been duly signed and returned to the Superintendent. All sewer permits shall be posted in a visible manner at the site of any and all sewer work. Such information as the NSBSC has with regard to the existence or location of main or building sewers will be furnished to the Underground Utility Contractors upon request, but at their risk as to the accuracy of the information. No materials shall be used or work covered until inspected and approved by the Superintendent or his designee, and the Underground Utility Contractor's return portion of each building sewer connection permit shall be promptly returned to the Superintendent after the work has been thoroughly inspected and the return as been signed by the inspecting authority.
 - C. Failure to comply with any provisions of this article by the Underground Utility Contractor or Master Plumber may result in the forfeiture of the right, as determined by the Superintendent, or his designee, to perform building or main sewer work within the Town. The NSBSC also reserves the right to withhold the issuance of any sewer permits to any Underground Utility Contractor or Master Plumber found in violation of any provisions of this article.

1.03 PRIVATELY-OWNED WASTEWATER TREATMENT FACILITIES:

- A. Privately-owned and operated pump stations and collection systems connected to the NSBSC wastewater collection system must adhere to the following:
 1. Owners of Privately Owned Wastewater Treatment Facilities shall maintain the system in good working order. Proper operation and maintenance shall include, but not be limited to, effective performance based on facility design, adequate operator staffing and training, and adequate laboratory and process controls, including quality assurance procedures as determined to be appropriate by the Town and backup or auxiliary facilities or similar systems to assure compliance or effective performance. Proper operation and maintenance must include emergency procedures and reporting requirements in case of power outages, natural disaster, labor shortage (whether the result of intentional work stoppages or epidemic), equipment failure, acts of terrorism/vandalism or sanitary sewer overflow. Reporting requirements shall include verbal notification to the Superintendent and the Rhode Island Department of Environmental Management (RIDEM) as soon as possible, but not exceeding twenty-four (24) hours of discovery of the event; and a written report must be submitted to the Superintendent and RIDEM not more than five (5) business days of the event's ending.

2. The owner shall submit, for review and approval by the Superintendent, an Operations and Maintenance Manual describing standards and procedures by which the Wastewater Treatment Facilities, pump station(s) and/or collection system(s) will be staffed, operated and maintained during normal and emergency conditions. Should development of the Plan include the practice of engineering, the Plan must be prepared and certified by a Registered Professional Engineer (registered in the State of Rhode Island). The Operations and Maintenance Plan shall include, but not be limited to, the following elements:
 - a. Describe the detailed operating procedures for the pump station(s) and collection system;
 - b. Provide a Preventative Maintenance Plan for the pump station;
 - c. Provide staffing requirements;
 - d. Provide a list of material suppliers and essential spare parts necessary to be kept on site for normal and emergency conditions;
 - e. Provide operating procedures for the emergency generator and automatic transfer switch;
 - f. Provide a Spill Prevention Plan;
 - g. Provide a description of the auxiliary system, such as water, heating and ventilation, sump pump and dehumidifying;
 - h. Provide a description of the alarm system and response procedures;
 - i. Provide names, addresses and telephone numbers of all emergency contacts, facility owners and facility operators;
 - j. Provide a list of subcontractors that are on call for emergency equipment rental (i.e., septage hauler, portable pump or generator).
 - k. Provide emergency procedures and reporting requirements in case of power outages, natural disasters, equipment failure, acts of vandalism, or sanitary sewer overflow;
 - l. Provide a description of the means of recordkeeping (the records must be accessible for a three (3) year period);
 - m. Provide as-built plans for the pump station and/or collection system;
 - n. Provide a sewer map of the collection system, including but not limited to, the overall service area, diameter of pipes, distance between manholes, slope and direction of flow; and

- o. Provide all required easements that will allow the NSBSC access to the site for unannounced periodic inspections.

1.03 Sewer Extensions:

- A. Sewer extensions will be allowed only if the receiving interceptors and pumping stations are capable of adequately processing the added hydraulic load. Documentation assessing the existing interceptor(s) and pumping station(s) shall be submitted to the Board of Sewer Commissioners. The documentation shall be stamped by a professional engineer registered in the State of Rhode Island.
- B. The proposed sewer extension must be consistent with the most recent Wastewater Management Facilities Plan adopted by the New Shoreham Board of Sewer Commissioners and the Rhode Island Department of Environmental Management.

2.00 **DRAWINGS**

- 2.01 The applicant must furnish drawings showing the location of the premises together with the location of all underground piping, proposed connection points, applicable details, general notes, utility conflict corrections, and other appurtenances to be installed on the premises at the time of making the application.
- 2.02 Drawings shall be submitted on a maximum size of 22" by 34" prints. Two (2) sets shall be submitted at the initial submission for indication of comments during the review stage. If a project is to be implemented in stages or phases, a master plan showing the entire site development, including all future expansion areas, shall be submitted for review during the first submission.
- 2.03 Drawings shall not be at a scale less than 1-inch per 40-feet and no more than 1-inch per 20-feet.
- 2.04 All site plans shall contain contours at a minimum of 2-foot intervals based on National Geodetic Vertical Datum (N.G.V.D.) and not with assumed elevations. Site plans shall include a locus map at a scale of not less than 1 inch = 2,000 feet and a north arrow.
- 2.05 All drawings are to be signed and wet-stamped by a registered, professional engineer licensed in the State of Rhode Island under whose direction the design has been designed.

3.00 **AS-BUILT / RECORD DRAWINGS**

- 3.01 Upon completion of the project, the developer/owner shall provide a preliminary as-built drawing documenting the record of actual construction. The preliminary as-built drawing shall be on 22" x 34" sheets (plan scale 1" = 40') for review prior to acceptance of the new construction infrastructure.
- 3.02 The owner/developer shall provide a revised as-built drawing reflecting measurements from the building foundations and above grade permanent structures and/or visible accessible

permanent features. The final as-built drawing(s) set shall accurately mark the location of each infrastructure component or appurtenance as constructed including, but not limited to:

1. Measured horizontal and vertical locations of the above and below grade sewer main, sewer services and appurtenances referenced to permanent surface improvements, above grade permanent structures and/or permanent visible and accessible features of the installation.
 2. Information concurrent with the actual construction.
 3. Three point measured swing ties from permanent surface improvements, above grade permanent structures and/or visible and accessible features of the installation to identify all bends, services and end caps.
 4. Depth of main at maximum of 50-foot intervals. Ties at every 100-foot interval, each recorded service and at each bend.
 5. Total overall footage.
 6. Detail of sewer service connection to the main.
- 3.03 Upon approval of the “as-built” submission, a .pdf version and print of the final “as-built” record drawing(s) shall be submitted and will remain the property of the Sewer Commission upon its approval and acceptance.
- 3.04 Upon final approval, the contractor shall also provide the “as-built” in AutoCad, latest edition digital format acceptable to the Sewer Commission.

4.00 QUALIFICATIONS OF MATERIAL AND EQUIPMENT

- 4.01 Specific manufacturers’ names and catalog numbers are used herein to establish quality and design of a particular item.
- 4.02 Wherever in the Specifications any item of equipment or material is designated by reference to a particular brand, manufacturer, or trade name, it is understood that a reviewed equal product, acceptable to the New Shoreham Board of Sewer Commissioners (NSBSC), may be submitted by the Contractor.
- 4.03 If the Contractor proposes to use a material which, while suitable for the intended use, deviates in any way from the detailed requirements, he shall inform the NSBSC in writing of the nature of such deviations at the time the material is submitted for review, and shall request a review of the deviation from the requirements.
- 4.04 In requesting a review of deviations or substitutions, the Contractor shall provide evidence leading to a reasonable certainty that the proposed substitution or deviation shall provide a result at least equal in quality to that specified. If, in the opinion of the NSBSC, the evidence presented by the Contractor does not provide a sufficient basis for such reasonable certainty,

the NSBSC will reject such substitution or deviation without further investigation, in which case it shall be the responsibility of the Contractor to provide another product which is satisfactory to the NSBSC.

5.00 PRODUCT

5.01 Sanitary Sewer Information Required:

- A. All vertical and horizontal alignment (profile and plan).
- B. Size, slopes, and materials to be used.
- C. Invert and rim elevations.
- D. Location and details of manholes.
- E. Other existing and proposed utilities should be shown in order to avoid conflicts during construction.
- F. Design sanitary flow calculations with Professional Engineer's stamp, except for sanitary service connections. Calculations shall conform to the Department of Environmental Management (DEM) requirements.

6.00 SEWER CONSTRUCTION REQUIREMENTS

6.01 General Requirements: Sanitary sewer improvements shall conform to the requirements of the New Shoreham Board of Sewer Commissioners, Department of Environmental Management, and any other agencies having jurisdiction.

6.02 Sanitary Sewers:

- A. Depth: Sewers shall be designed deep enough to drain basement fixtures and to prevent freezing. The minimum depth of cover for street installation shall be 6-feet and for cross country installation it shall be 4-feet.
- B. Slope: The following minimum slopes may be used only if necessary because of grade restrictions.

<u>Sewer Size Inches</u>	<u>Minimum Slope Feet/Foot</u>
8	0.0040
10	0.0028
12	0.0022
14	0.0017
15	0.0015
16	0.0014
18	0.0012

21	0.0010
24	0.0008
27	0.0007
30	0.0006
36	0.0005

- C. Velocity: The minimum velocity for design purposes is two (2) feet per second and the maximum velocity is ten (10) feet per second.
- D. Alignment: Sewers shall be laid with a straight alignment between manholes.
- E. Increasing Pipe Size: When a smaller sewer joins one of a larger one, the invert of the larger sewer should be lowered sufficiently to maintain the same hydraulic gradient.
- F. Materials: Sewers shall be constructed of materials described in Section II. Sewers crossing streams or any body of water shall be ductile iron encased in concrete.
- G. Manhole Locations: Manholes shall be installed at the end of each sewer line, at changes in grade, size, or alignment and at all intersections. The maximum spacing of manholes shall not exceed 300 feet.
- H. Drop Manhole Type: A drop pipe should be provided for a sewer entering a manhole at an elevation of 24-inches or more above the manhole invert. The size of the drop pipe will be the same size as the sewer inlet pipe. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24-inches, the invert shall be so constructed so that there is a smooth transition of flow in the manhole.
- I. Manhole Diameter: The minimum internal diameter of manhole shall be 60-inches.
- J. Flow Channel: A drop of at least 0.1 feet shall be provided between incoming and outgoing sewers on all manholes.
- K. Elevation: In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by a grinder pump system as specified in Section A and discharged to the building sewer.
- L. Clean Outs: Clean-outs shall be installed at the property line, at every fitting over 22½ degrees and at 75-foot intervals.
- M. Backwater Valve: All connections are to be equipped with a backwater valve. Backwater valves must conform to the New Shoreham Board of Sewer Commission's standards.
- N. Pipe Size: All lateral sewer pipes shall have a minimum diameter of eight (8) inches. Sewer pipes for house connections from the sewer main to the property line shall have a minimum diameter of six (6) inches.

- O. Grease, Oil and Solids Interceptors: A user is required to install a grease removal system may install either an outdoor passive in-ground grease interceptor or an automatic electrical/ mechanical grease removal unit.
1. In-ground grease removal systems shall have a minimum capacity of 500 gallons and shall have a capacity to provide at least a 24-hour detention period for the process flow. The process flow shall be based on a minimum of 15 gallons per seat or chair per day or based upon actual water usage for existing facilities.
 2. The automatic electric/mechanical grease removal unit shall be the "Big Dripper" Automatic Grease Recovery System as manufactured by Thermaco, Inc., Asheboro, North Carolina, or equal. The unit shall be sized in accordance with the manufacturer's written recommendation. Influent to the unit with temperatures exceeding 150° F will not be permitted.
 3. A separate suitable sampling location as approved by the Superintendent shall be provided for sampling of the discharge from the ground grease removable systems. The automatic electrical mechanical grease removal systems shall have a sampling valve installed on the discharge piping with a minimum clearance of eight (8) inches to allow samples to be taken by representatives of the New Shoreham Board of Sewer Commissioners.
 4. Dishwasher wastewater shall not be discharged into the grease removal systems. The dishwasher wastewater shall bypass the grease removal system and discharge directly into the municipal sewer collection system except that the dishwasher wastewater from the pre-rinse station shall discharge to the grease removal system.
- P. Identification:
1. Underground-Type Line Markers for Non-Metallic Pipings: Manufacturer's standard permanent detection tape, bright colored, continuous-printed polyethylene tape with a metallic core for easy detection of non-metallic underground installations, intended for direct burial service; not less than 6-inch wide x 4 mils thick. Provide green detection tape with black printing reading "CAUTION SEWER LINE BURIED BELOW" as manufactured by Seton or equal.
 2. Underground-Type Line Markers for Metallic Pipelines: Manufacturer's standard permanent, bright colored, continuous-printed polyethylene tape, intended for direct-burial service; not less than six-inches wide by 4 mils thick. Provide green tape with black printing reading "CAUTION SEWER LINE BURIED BELOW" as manufactured by Seton or equal.
 3. Installation marker two (2) feet above top of pipe.

LOW PRESSURE SEWER GRINDER PUMP STATIONS SPECIFICATIONS

1.00 PART 1 - GENERAL

1.01 DESCRIPTION OF WORK:

- A. The work consists of furnishing and installing a grinder pump system including excavation and backfill, bedding material, grinder pump, pump chamber with accessway, piping and valves, electrical work, factory and on-site testing, and all other incidentals as specified and as shown on the contract drawings.
- B. All approvals and permits as set forth in the New Shoreham Sewer Ordinance and Regulations and the Department of Environmental Management requirements, when applicable, shall be obtained prior to the installation of the low pressure grinder pump station system.

1.02 SPECIAL REQUIREMENTS:

- A. Contractor shall obtain all required permits as set forth in the Town of New Shoreham Sewer Ordinance and the Regulations of the New Shoreham Board of Sewer Commissioners prior to undertaking construction of sanitary sewage service connection(s).
- B. The Superintendent shall be notified 24 hours in advance to inspect the installation.

1.03 SUBMITTALS:

- A. Contract Documents: Submit contract documents of proposed low pressure sewer grinder pump system including design calculations.
- B. Operation and Maintenance Service: Submit an operation and maintenance service contract for each grinder pump unit.
- C. Record Drawings: At completion of project, submit record drawings of installed system.

1.04 QUALIFICATIONS OF MATERIAL AND EQUIPMENT:

- A. Specific manufacturers' names and catalog numbers are used herein to establish quality and design of a particular item.
- B. Wherever in the Specifications any item of equipment or material is designated by reference to a particular brand, manufacturer, or trade name, it is understood that a reviewed equal product, acceptable to the New Shoreham Board of Sewer Commissioners (NSBSC), may be submitted by the Contractor.

- C. If the Contractor proposes to use a material which, while suitable for the intended use, deviates in any way from the detailed requirements, he shall inform the NSBSC in writing of the nature of such deviations at the time the material is submitted for review, and shall request a review of the deviation from the requirements.
- D. In requesting a review of deviations or substitutions, the Contractor shall provide evidence leading to a reasonable certainty that the proposed substitution or deviation shall provide a result at least equal in quality to that specified. If, in the opinion of the NSBSC, the evidence presented by the Contractor does not provide a sufficient basis for such reasonable certainty, the NSBSC will reject such substitution or deviation without further investigation, in which case it shall be the responsibility of the Contractor to provide another product which is satisfactory to the NSBSC.

2.00 PART 2 - PRODUCTS

2.01 LOW PRESSURE GRINDER PUMP UNIT:

- A. Low pressure grinder pumps shall be manufactured by Environment One, or equal. The unit shall consist of a grinder pump, level controls, siphon breaker, check valve and a minimum 70 gallon high density polyethylene tank for single residential units not greater than three units. Residential units greater than three units and commercial units shall be designed based on design flow and the pump units shall have redundant pumps. The unit shall be equipped with an electrical quick disconnect plug, a discharge line shut-off valve and a quick disconnect assembly. The alarm/disconnect panel shall contain circuit breakers, an audible and visual alarm transfer switch and generator receptacle. A second check valve shall be provided adjacent to the pump unit.
- B. Manual transfer switch shall be a double throw non-fuse, 3-pole square "D" 30 amp enclosed in a NEMA 3R enclosure.
- C. The generator hook-up shall be a single outlet (2P - 3 wire) twist lock with a weatherproof cover plate NEMA L6-30 or with a 12-2 with ground power supply cord connected to the transfer switch with a male plug.
- D. All materials shall be U.L. listed, PVC conduits, conduit wall seals and conductors-copper and shall be acceptable to the local electrical inspector

2.02 PIPING:

- A. Pipe and fittings for low pressure mains shall be polyvinylchloride (PVC) pipe Class 200 (SDR 21) with push-on joints. Bell shall be gasketed joint conforming to ASTM D3139 with gaskets conforming to ASTM F477.
- B. Pipe and fittings for low pressure services shall be polyvinylchloride (PVC) pipe Class 200 (SDR21) with push-on joints or high density polyethylene DR11 piping, PE3408, in accordance with ASTM D3350. The high density polyethylene piping shall be joined by the fusion welding process.

- C. Piping within the low pressure inline and end flushing manholes shall be Schedule 80 PVC pipe, and fittings shall be rigid, unplasticized, Type I, Grade I, polyvinylchloride conforming to ASTM D1784, NSF listed.

3.00 PART 3 - EXECUTION

3.01 INSTALLATION OF GRINDER PUMPING UNIT:

- A. Installation of grinder pumping unit shall be in accordance with the manufacturer's written instructions.
- B. Installation of piping and valves shall be in accordance to sanitary sewage system or sanitary sewage service connections specifications.

3.02 ELECTRICAL:

- A. Contractor shall obtain all required certificates of inspection of his work as required by state and local officials and deliver same to the New Shoreham Sewer Department (NSSD).
- B. All materials furnished and all work installed shall comply with the national fire codes of the National Fire Protection Association, with the requirements of all town, state and governmental departments having jurisdiction, including applicable requirements of the U.S. Department of Labor's occupational safety and health standards.
- C. Materials and workmanship shall be new and of current production and shall conform in all respects to, applicable requirements of national electrical code, rules, and regulations governing installation of electrical work in the applicable requirements of the utility company and other state and local authorities having jurisdiction.
- D. The high level indicator lamp assembly shall be installed in a standard device box in a visible location in the interior of dwelling.

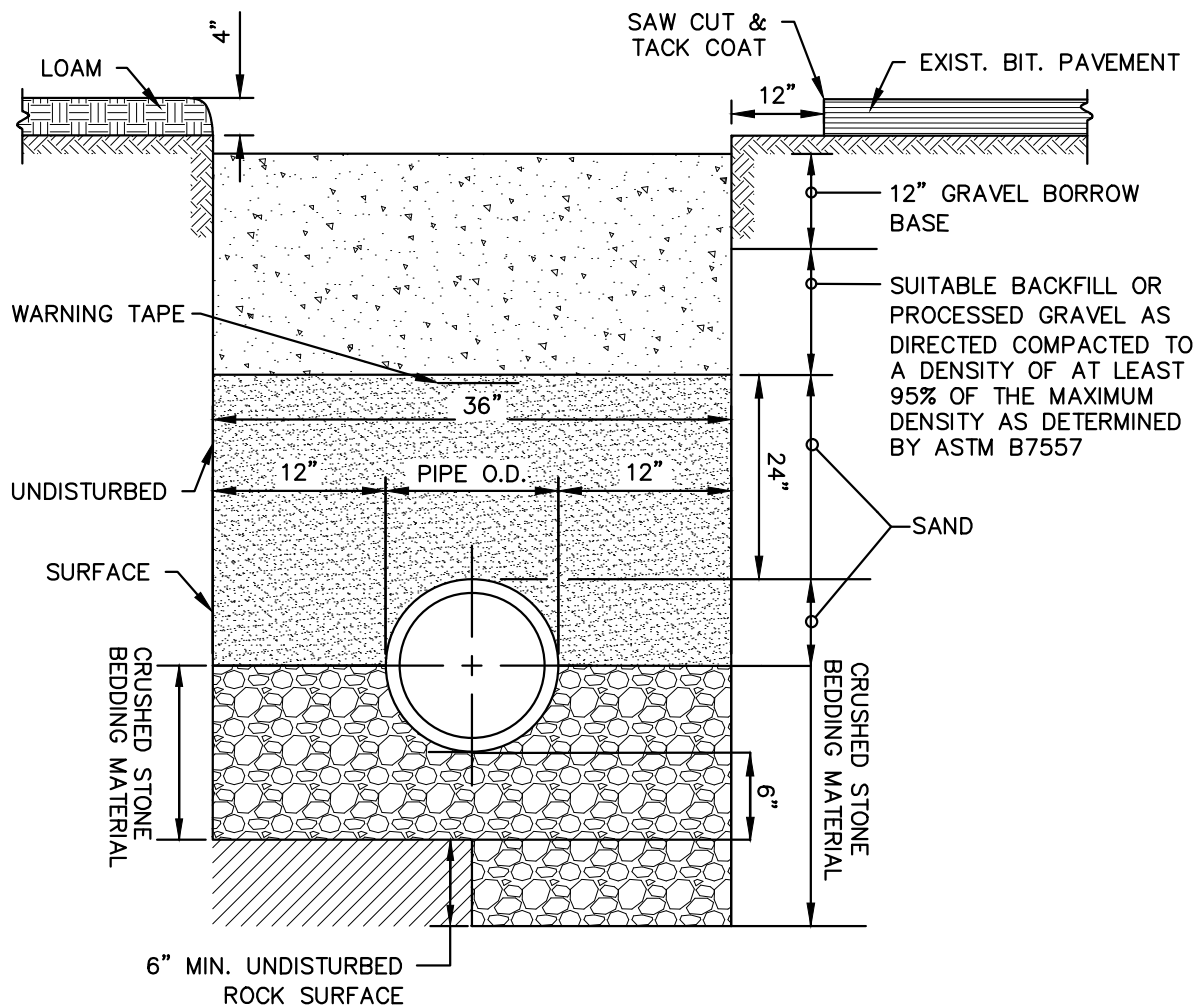
3.03 START-UP SERVICE:

- A. A factory-trained representative shall perform initial start-up of each unit and instruct dwelling owner in the operation and maintenance of the equipment, and to test for satisfactory performances of each unit in the presence of the Superintendent.

3.04 OPERATION AND MAINTENANCE SERVICE:

- A. A two (2) year operation and maintenance service contract for the pumping unit shall be obtained by the contractor or dwelling owner for each unit and submitted to the Superintendent prior to receiving a permit for installation.

END OF SECTION



NOTES:

1. MINIMUM DEPTH OF COVER SHALL BE 4'-0"
2. PAVEMENT RESTORATION SHALL CONFORM TO THE DEPARTMENT OF PUBLIC WORKS REQUIREMENTS



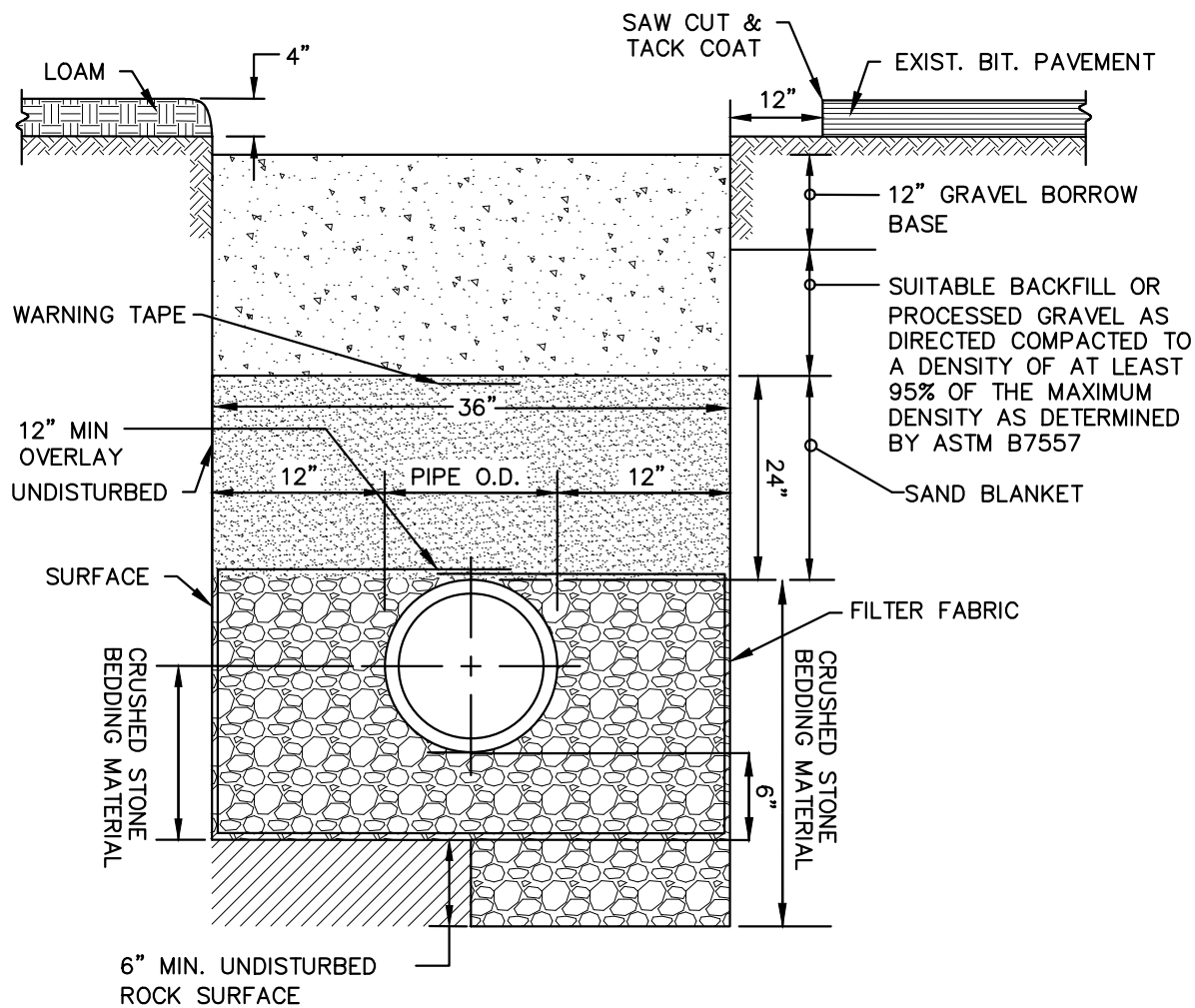
Town of New Shoreham
Rhode Island

Figure S-1
TRENCH DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:

1. MINIMUM DEPTH OF COVER SHALL BE 4'-0"
2. PAVEMENT RESTORATION SHALL CONFORM TO THE DEPARTMENT OF PUBLIC WORKS REQUIREMENTS



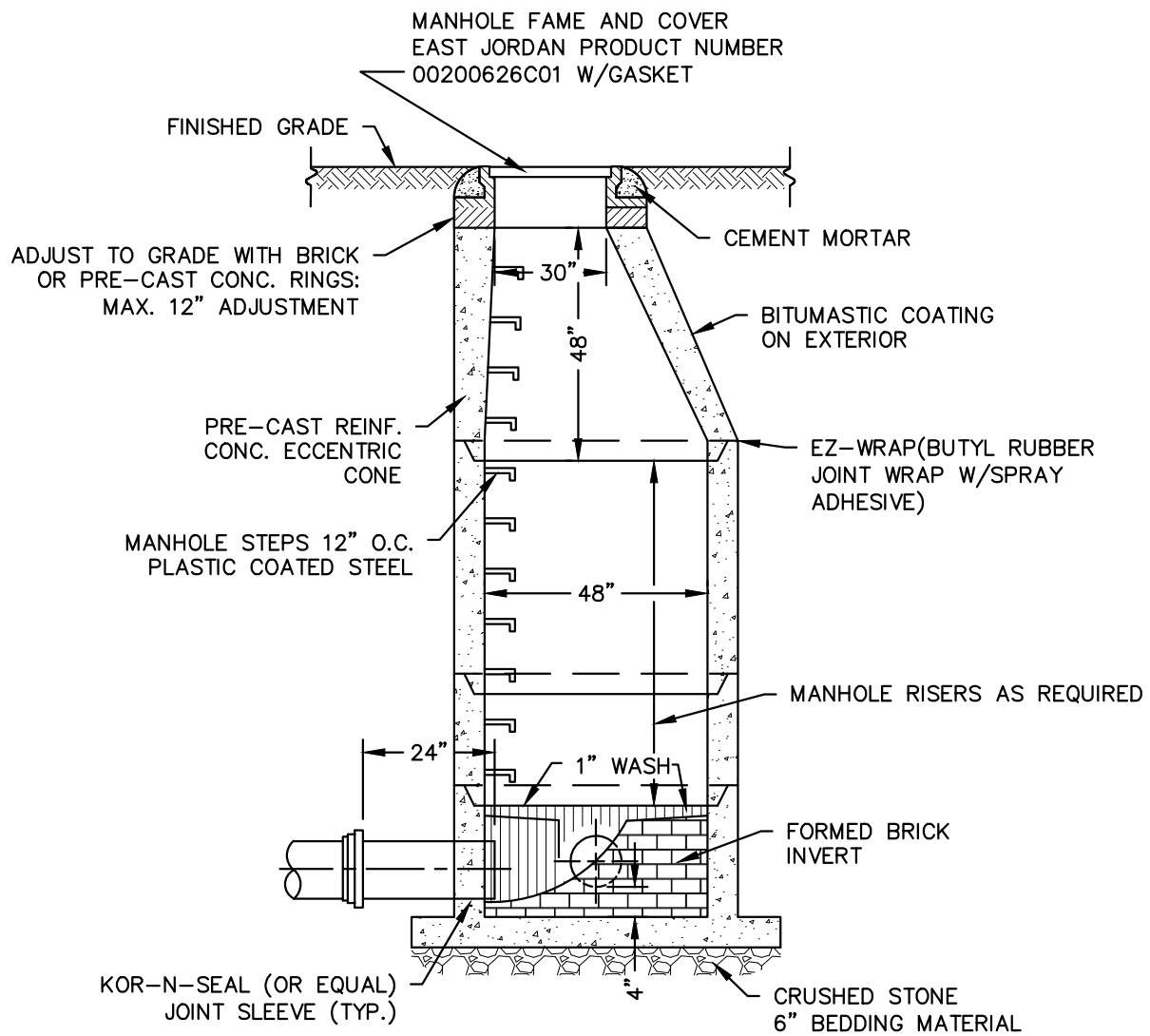
Town of New Shoreham
Rhode Island

Figure S-2
TRENCH DETAIL WET CONDITION

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:

1. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT



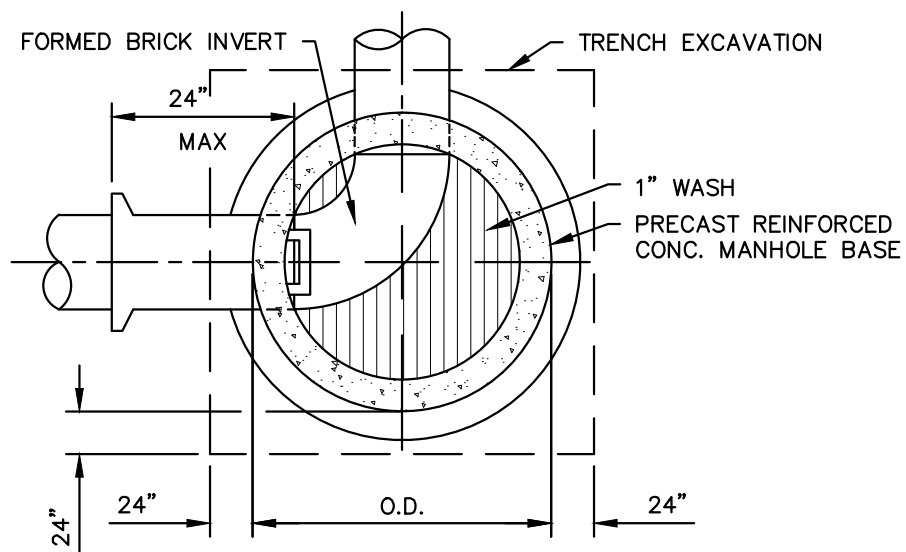
Town of New Shoreham
Rhode Island

Figure S-4
SEWER MANHOLE DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



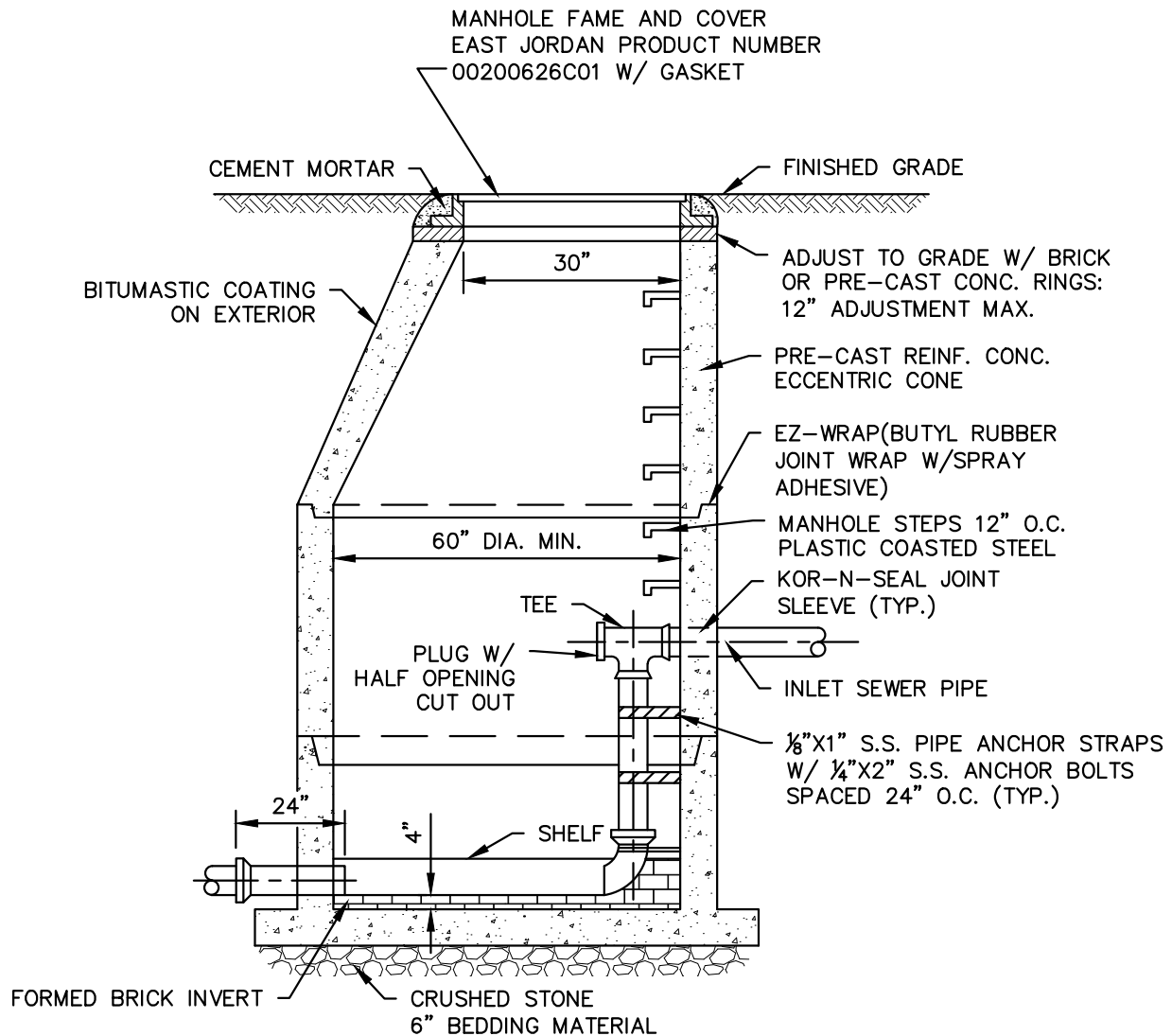
Town of New Shoreham
Rhode Island

Figure S-5
PRECAST MANHOLE DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:

1. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT
2. DROP PIPE SHALL BE PVC AND SAME SIZE AS INLET SEWER



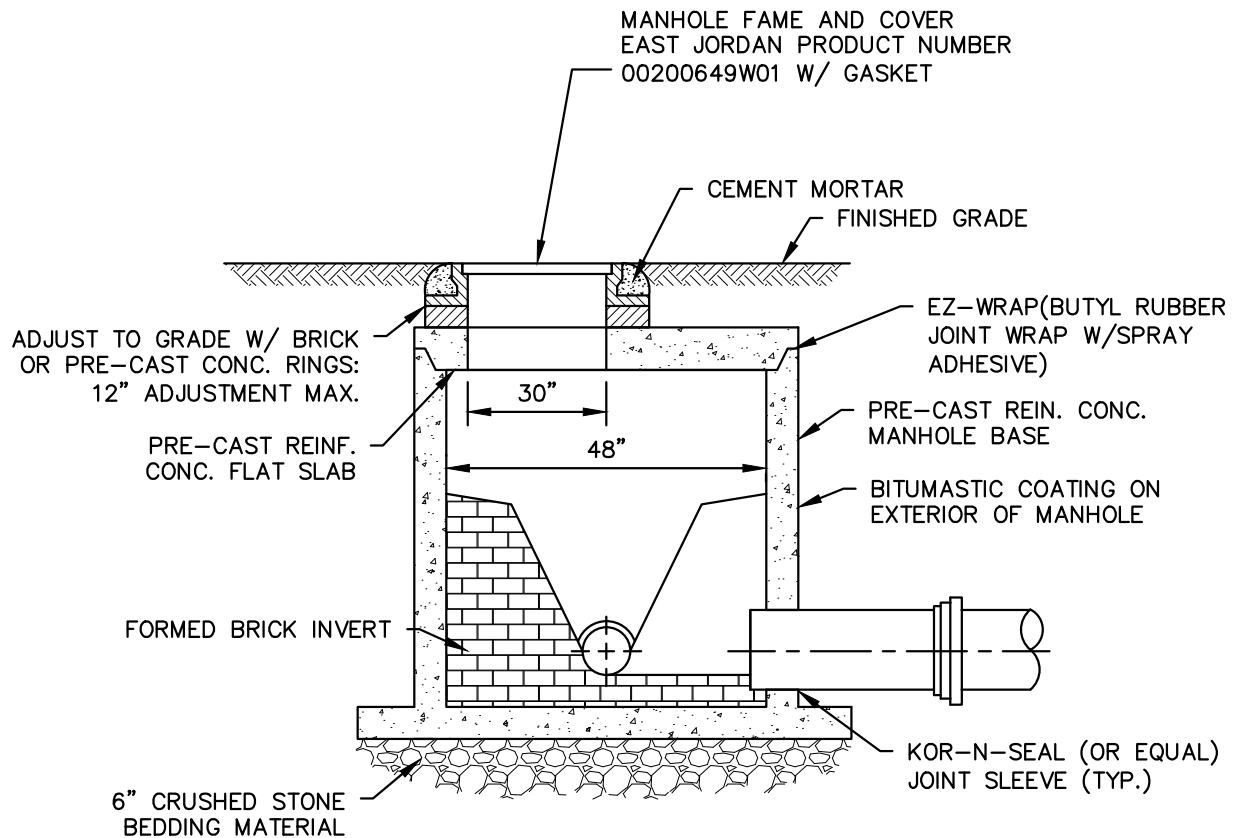
Town of New Shoreham
Rhode Island

Figure S-6
INSIDE DROP SANITARY MANHOLE DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:

1. SHALLOW MANHOLES SHALL BE PROVIDED ONLY WHERE THE VERTICAL HEIGHT OF THE MANHOLE IS LESS THAN 6'-0"
2. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT



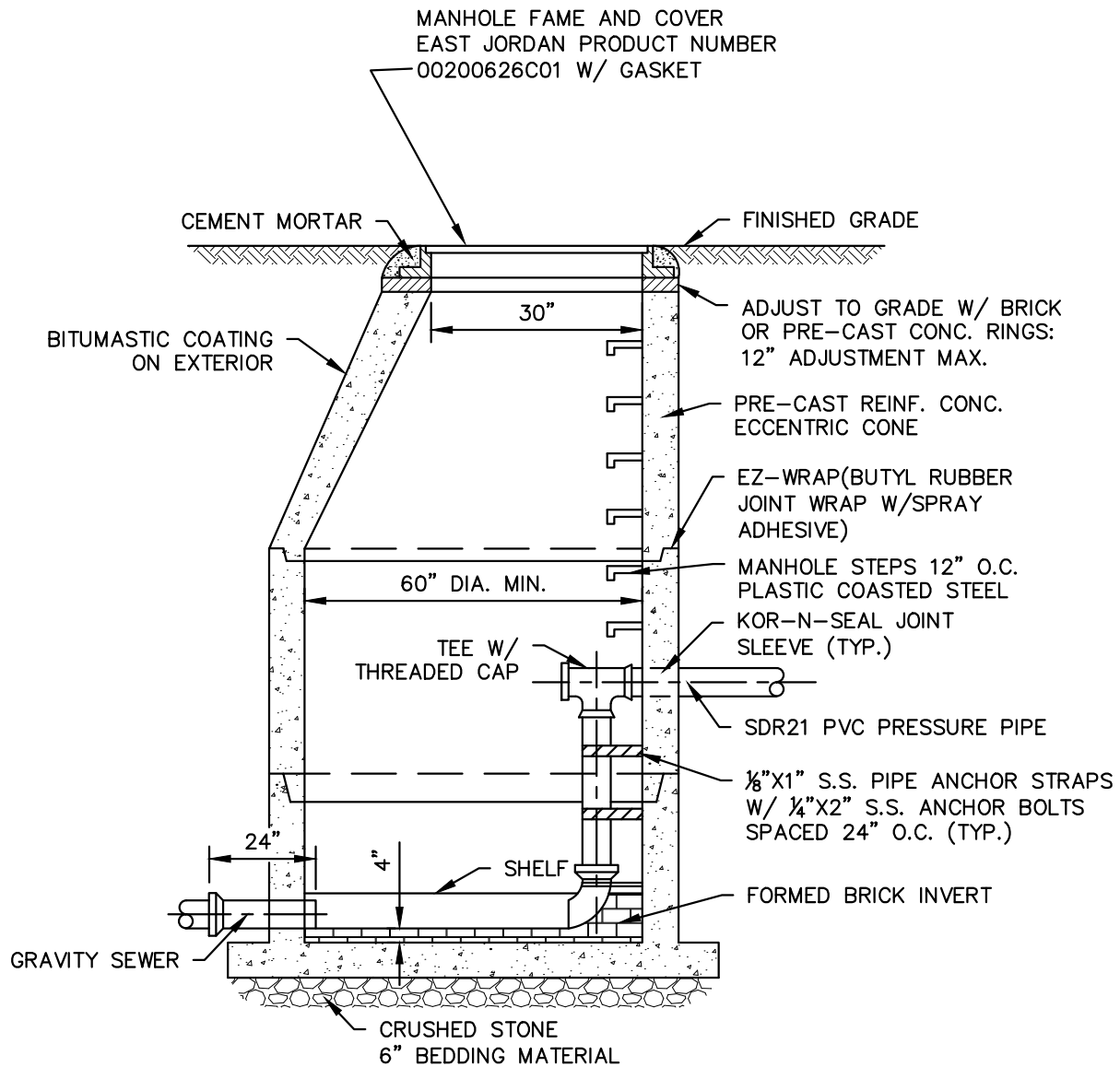
Town of New Shoreham
Rhode Island

Figure S-7
SANITARY SHALLOW MANHOLE DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



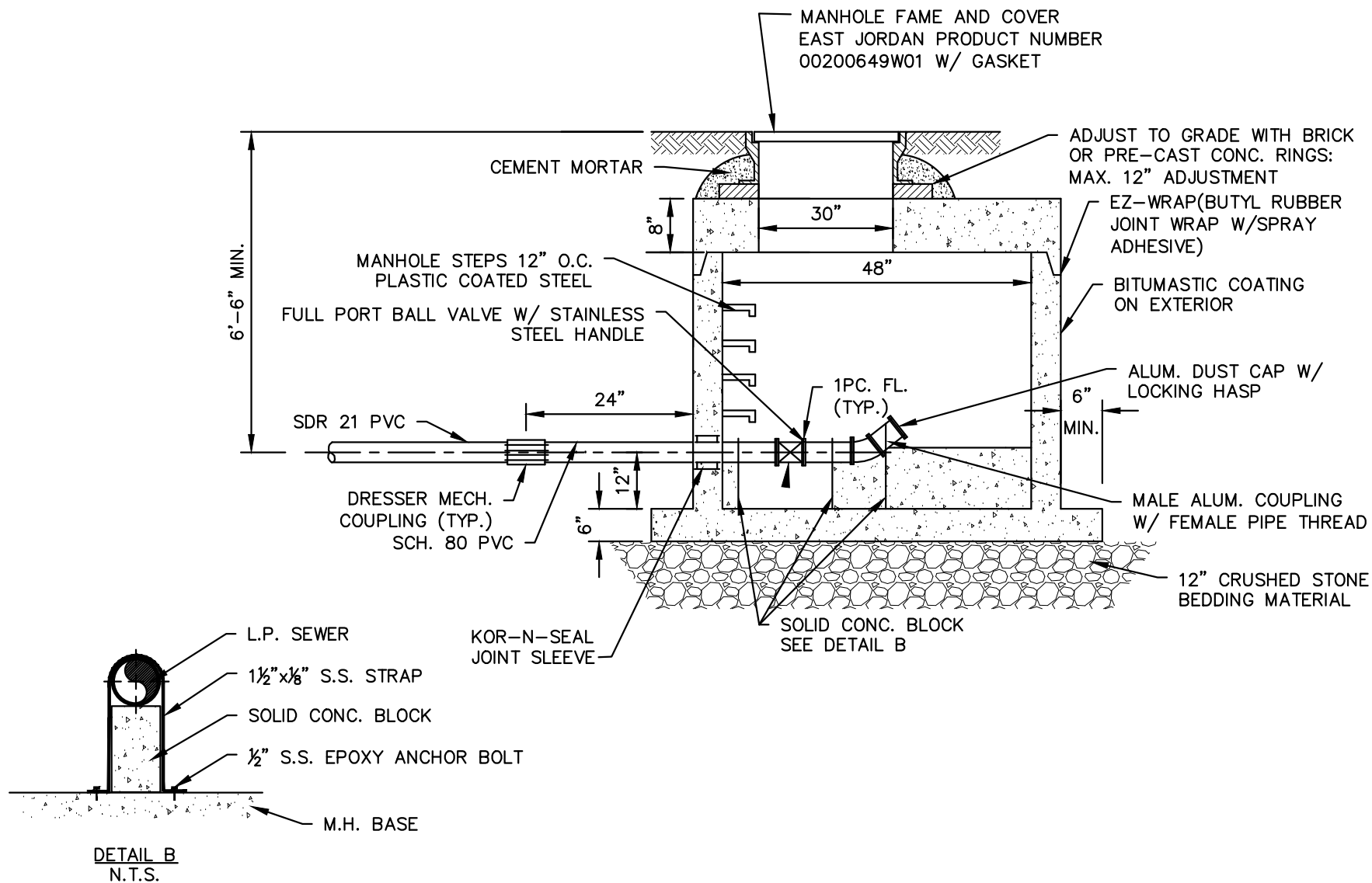
Town of New Shoreham
Rhode Island

Figure S-8
LOW PRESSURE SEWER INSIDE DROP MANHOLE

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



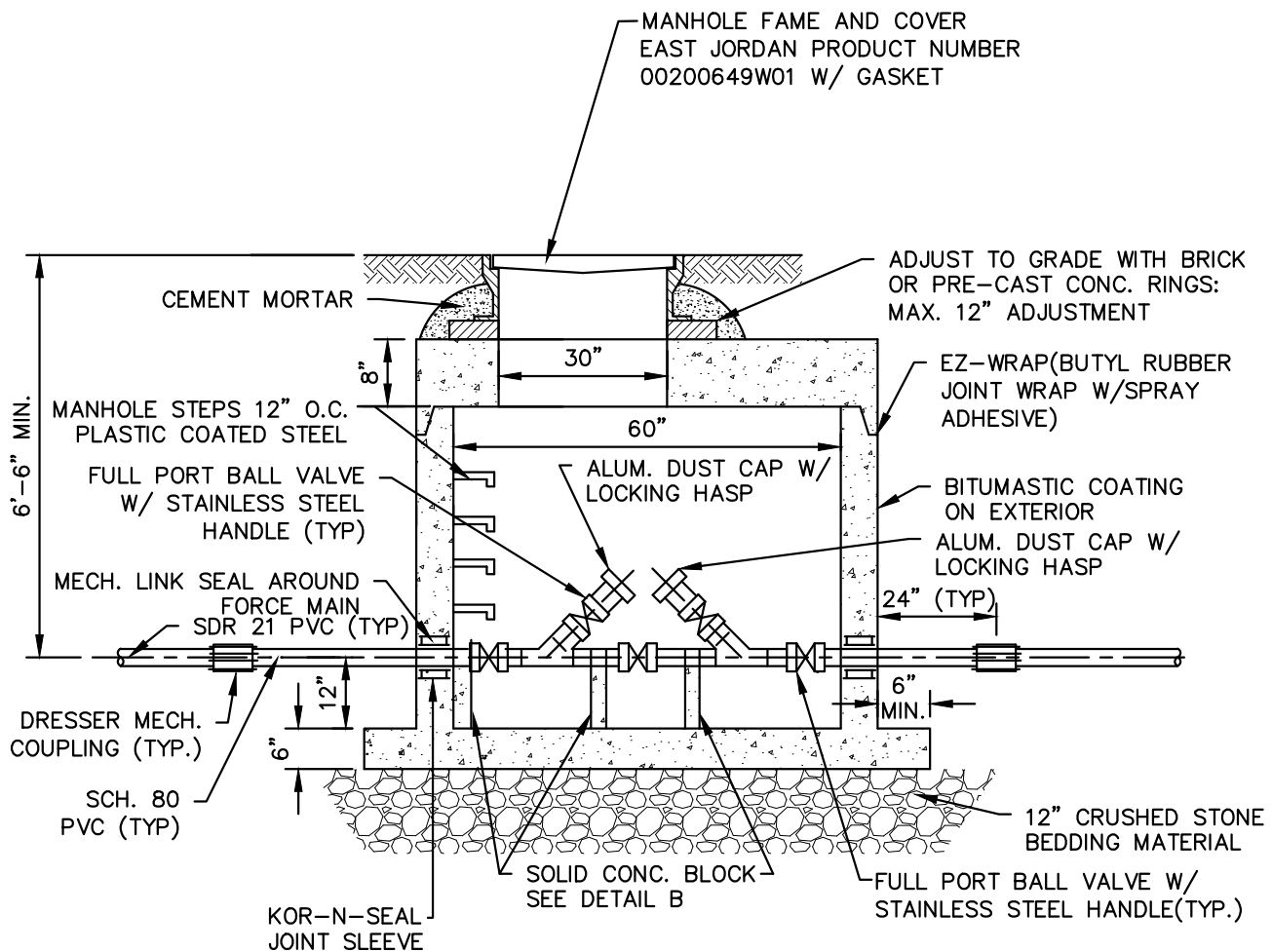
Town of New Shoreham
Rhode Island

Figure S-9
LOW PRESSURE TERMINAL END FLUSHING CONNECTION

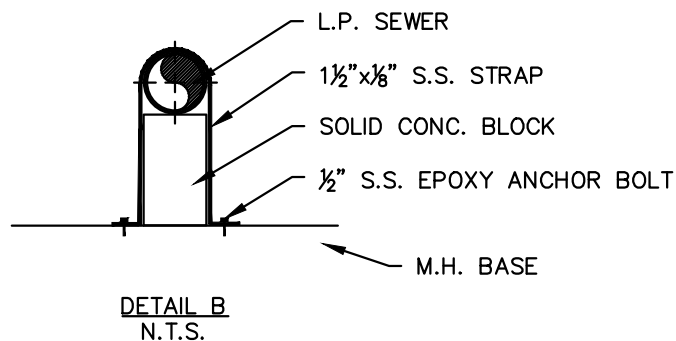
Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



SECTION - IN LINE FLUSHING CONNECTION
N.T.S.



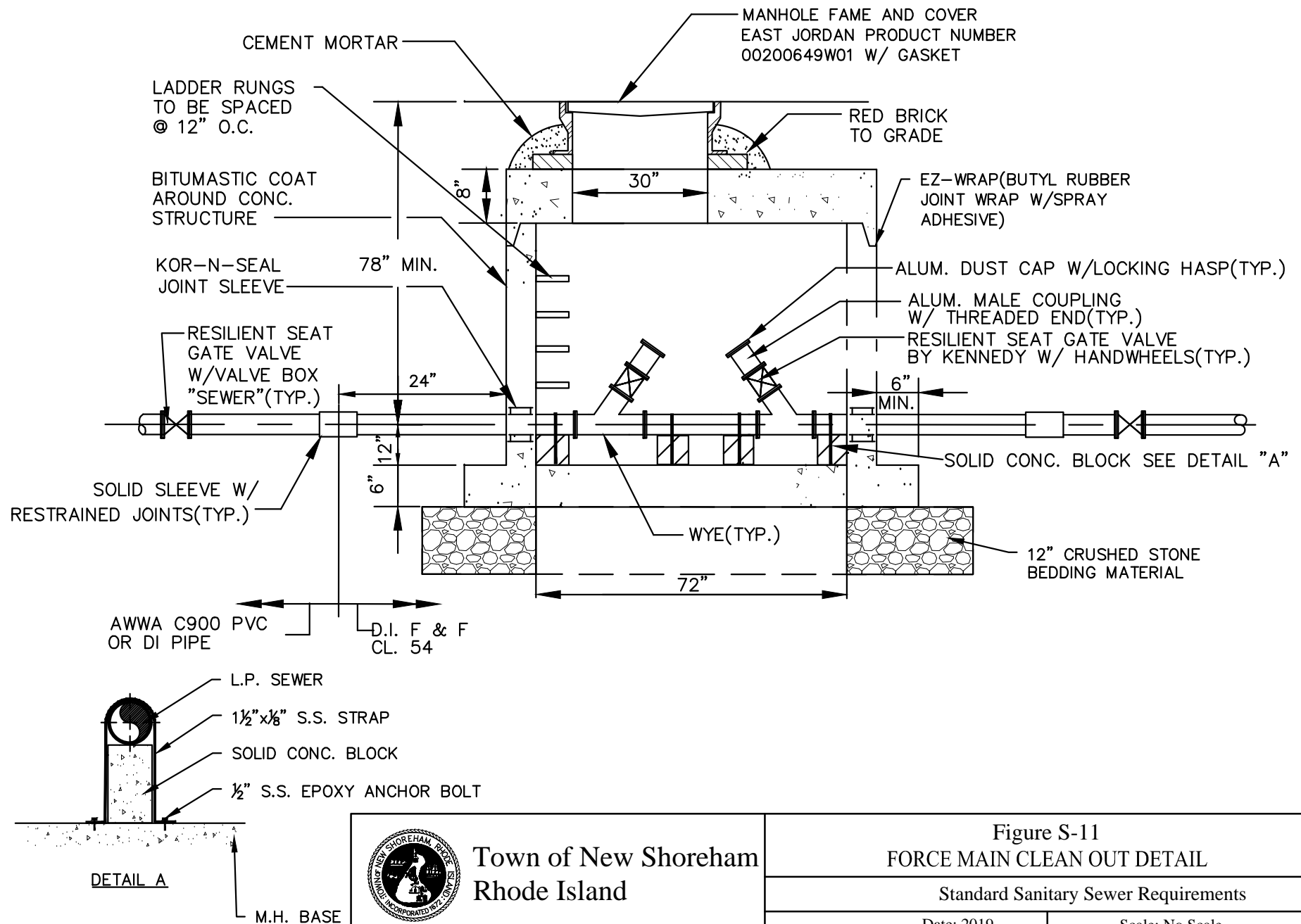
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Rhode Island

Figure S-10
LOW PRESSURE IN-LINE STRAIGHT
THROUGH FLUSHING CONNECTION DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



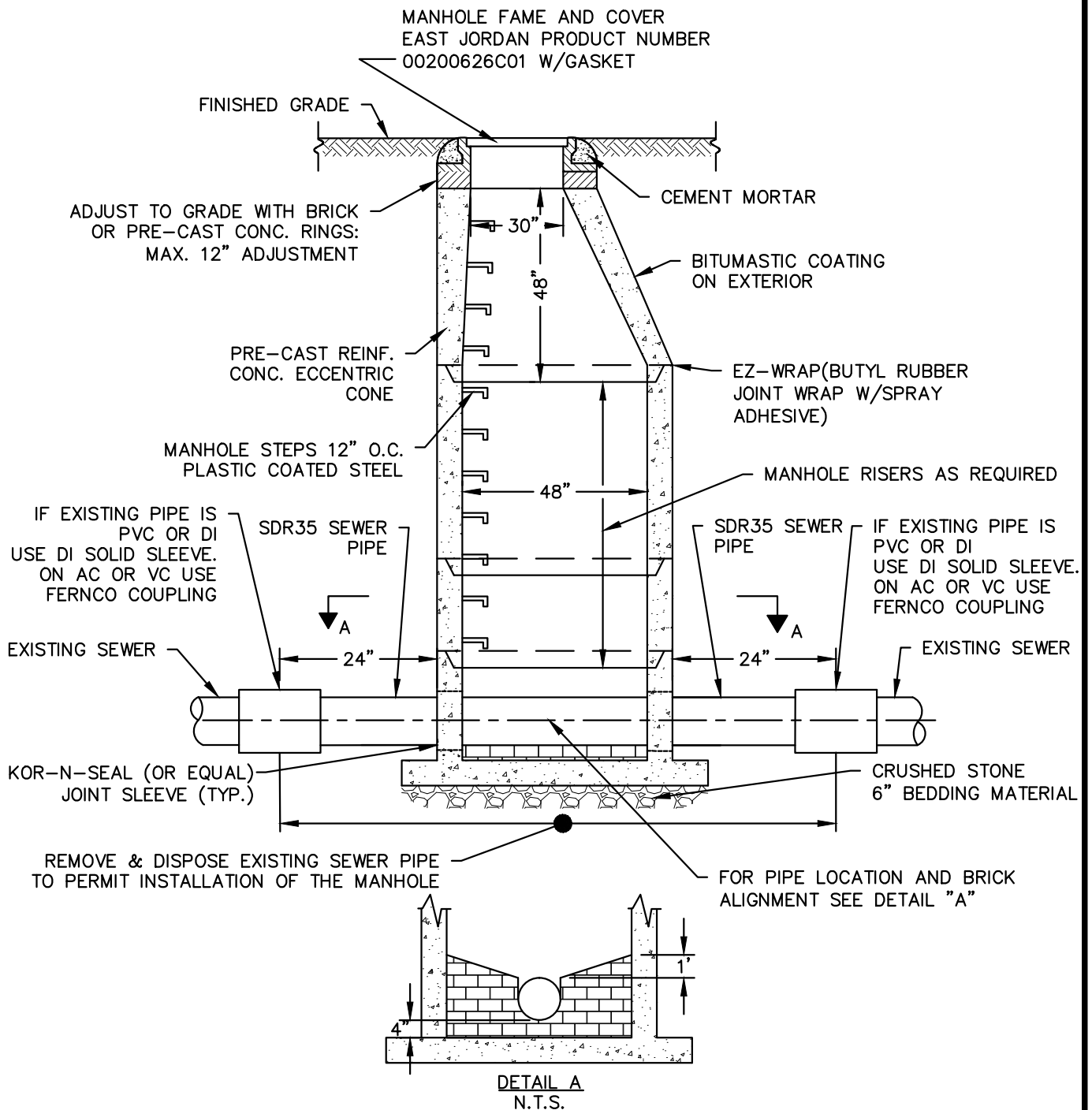
Town of New Shoreham
Rhode Island

Figure S-11
FORCE MAIN CLEAN OUT DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



- NOTES:
1. ALL LIFTING HOLES TO BE PLUGGED IN AND OUT WITH HYDRAULIC CEMENT



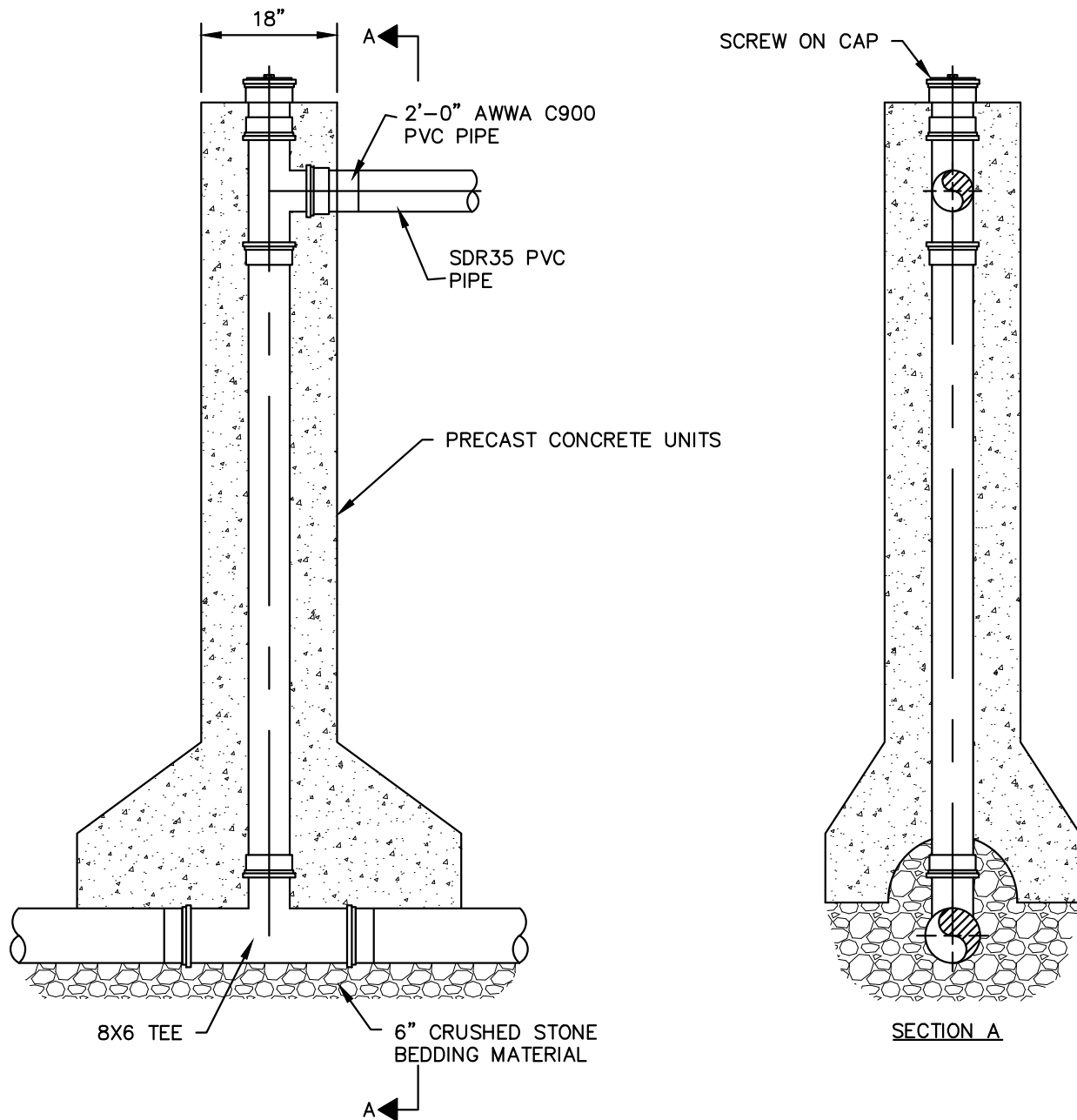
Town of New Shoreham
Rhode Island

Figure S-12
SEWER MANHOLE ON EXISTING SEWER MAIN

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:

1. FOR AN EXISTING SEWER MAIN THAT DOES NOT HAVE A TEE INSTALLED, THE CONTRACTOR SHALL INSTALL A TEE



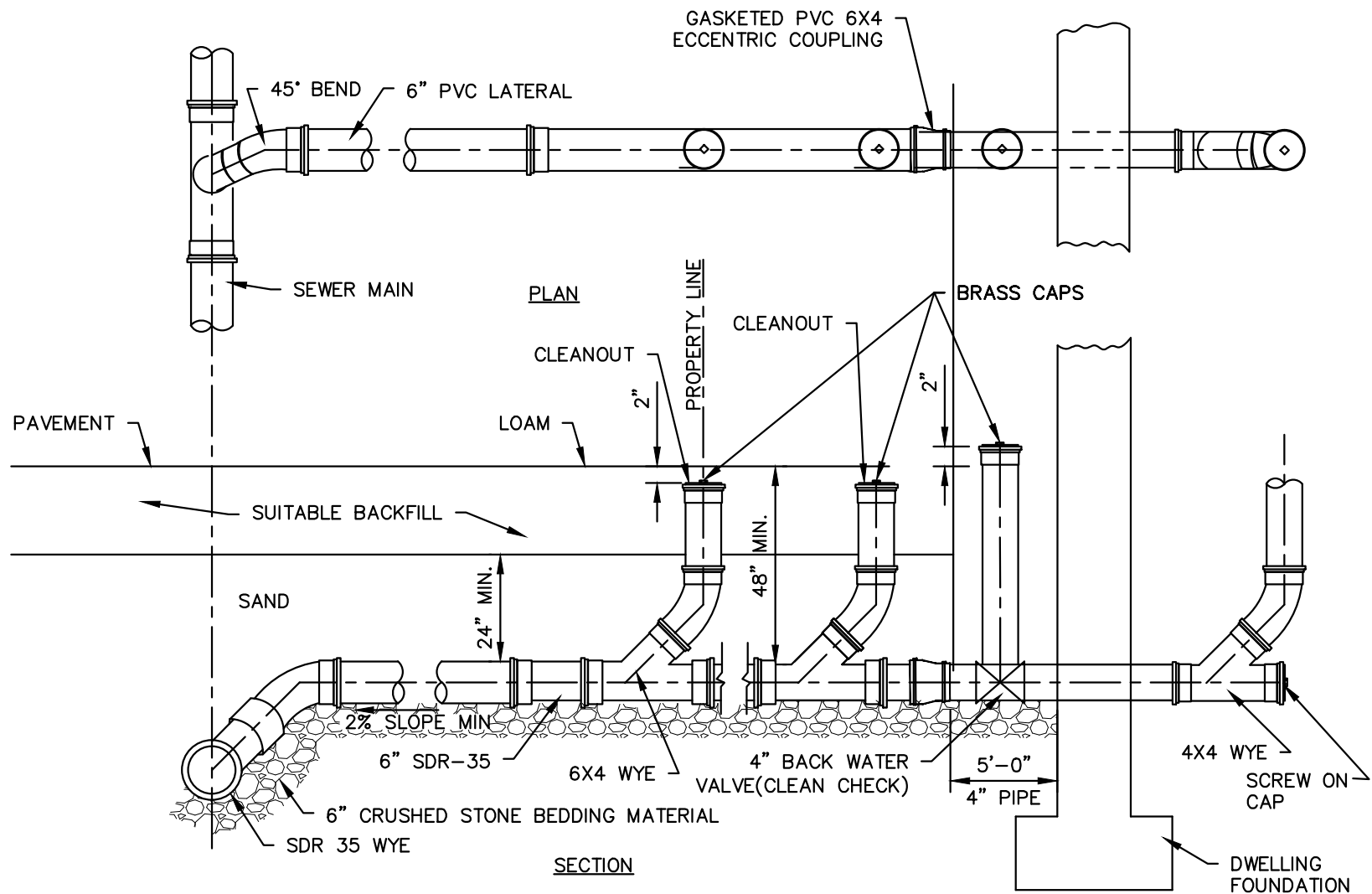
Town of New Shoreham
Rhode Island

Figure S-13
STANDARD DEEP HOUSE CONNECTION DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTES:
 1. BACK WATER VALVE AND CLEANOUT ON PAVEMENT SHALL HAVE HEAVY DUTY CLEANOUT COVERS



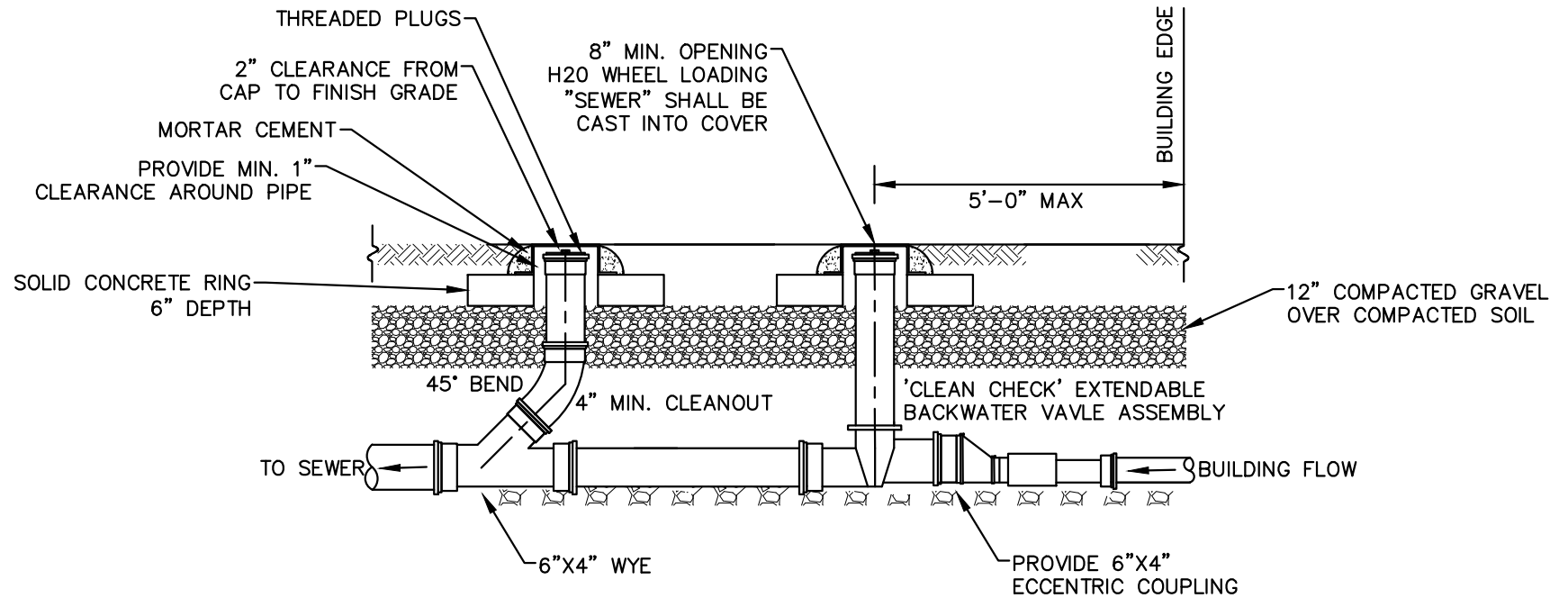
Town of New Shoreham
 Rhode Island

Figure S-14
 STANDARD HOUSE CONNECTION DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



Town of New Shoreham
Rhode Island

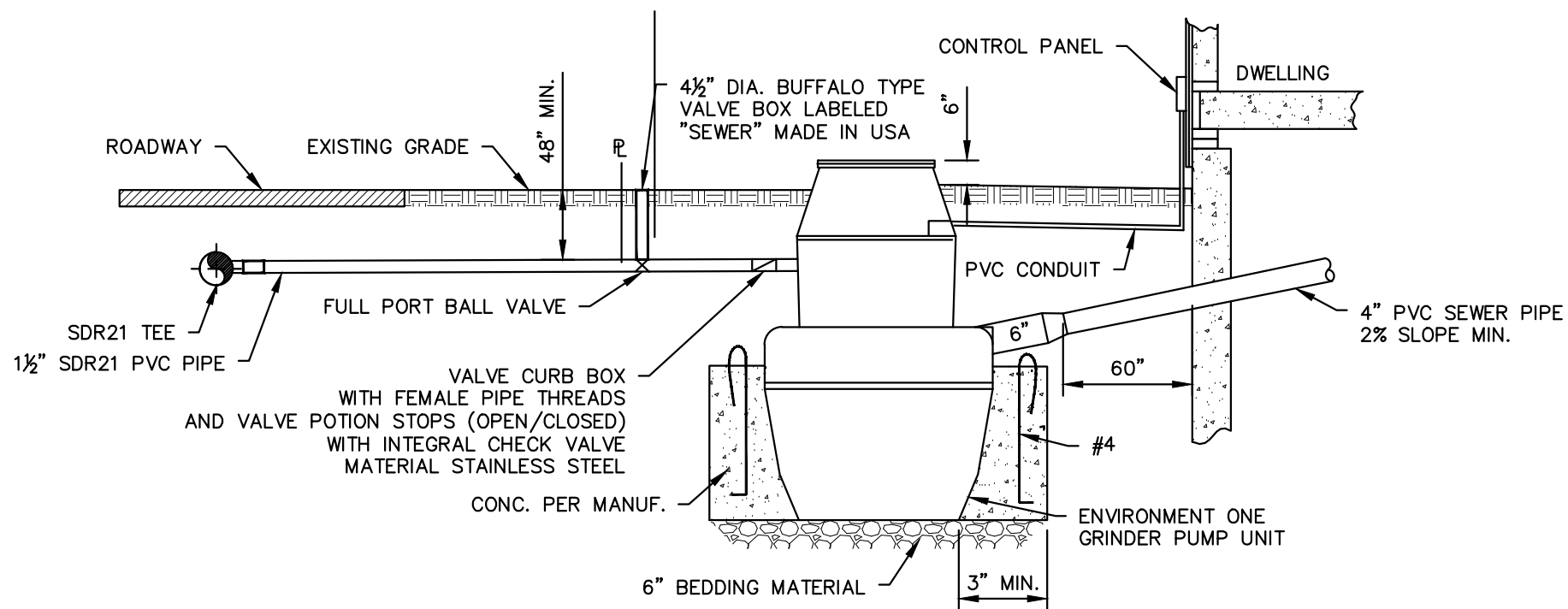
Figure S-15

CLEAN OUT & BACKWATER VALVE WITHIN PAVEMENT AREA

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



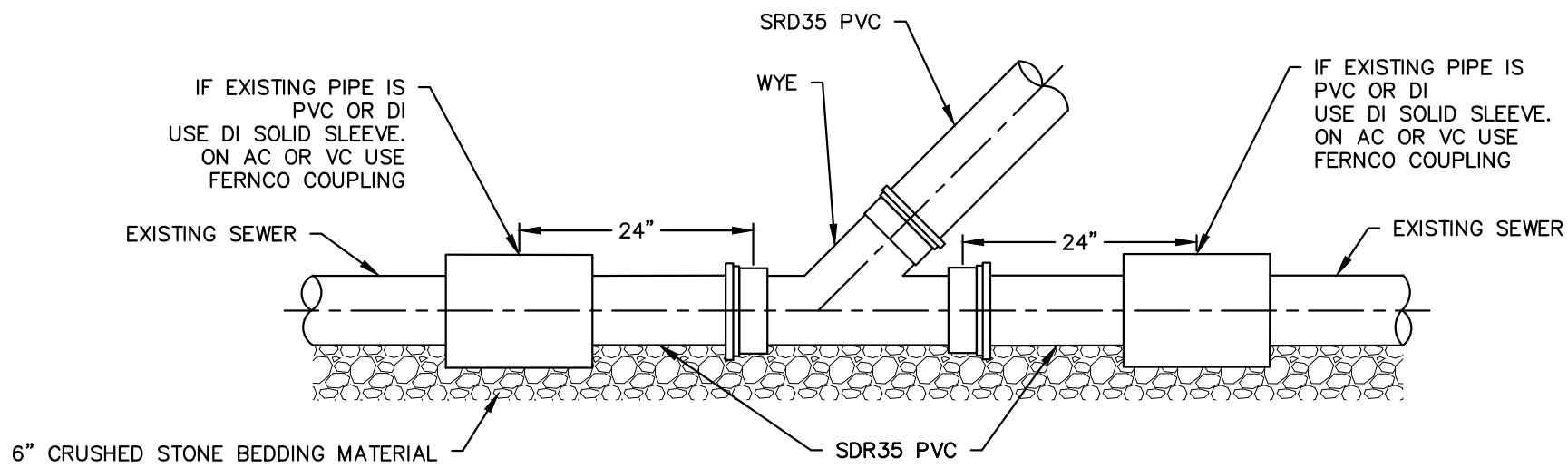
Town of New Shoreham
Rhode Island

Figure S-16
LOW PRESSURE SEWER SERVICE CONNECTION

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



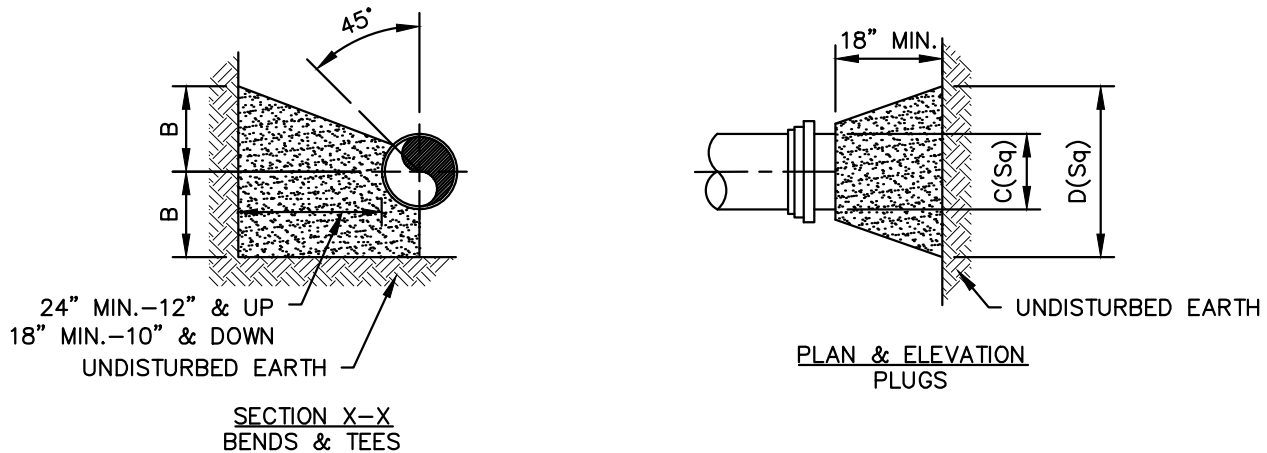
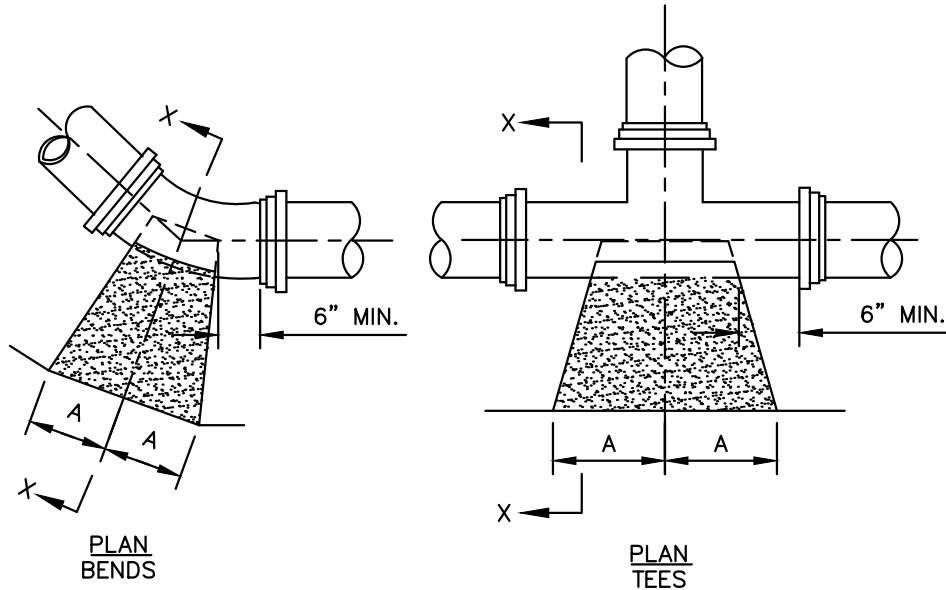
Town of New Shoreham
Rhode Island

Figure S-17
WYE CONNECTION TO EXISTING SEWER DETAIL

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



TYPE	SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
		A	B	A	B	A	B	A	B	C	D
TYPE 1 4000 PSF SOIL	6"	5"	10"	6"	8"	3"	8"	8"	8"	10"	15"
	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"
	10"	16"	14"	10"	12"	6"	10"	11"	14"	14"	25"
	12"	19"	16"	12"	14"	8"	11"	14"	16"	16"	30"
	14"	23"	18"	14"	16"	10"	12"	16"	18"	18"	34"
TYPE 2 2000 PSF SOIL	16"	26"	20"	16"	18"	11"	13"	18"	20"	20"	38"
	6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
	8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
	10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
	12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
	14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
	16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"



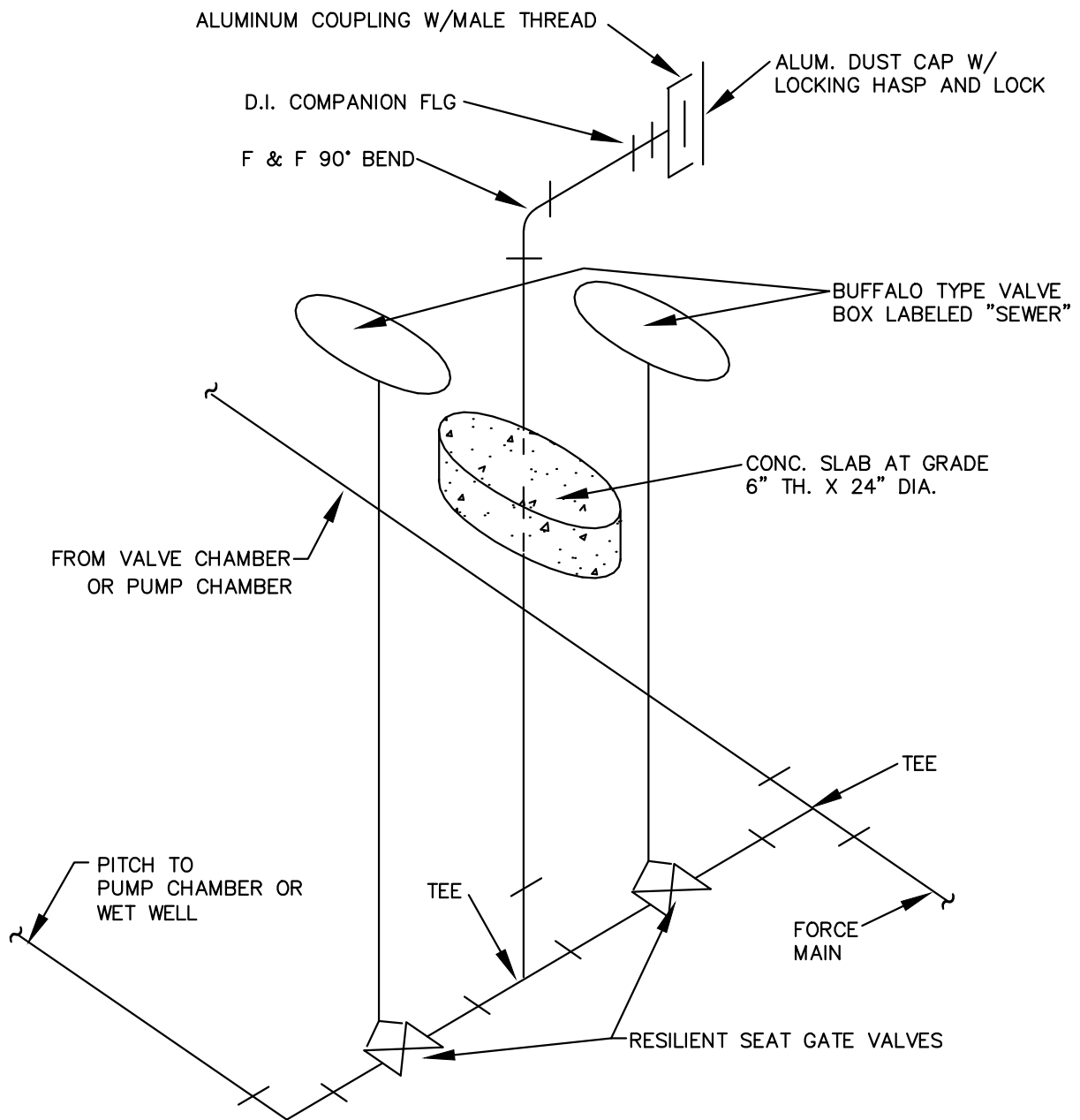
Town of New Shoreham
Rhode Island

Figure S-18
THRUST BLOCKS DETAILS

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



NOTE:
PROVIDE ONE VALVE KEY



Town of New Shoreham
Rhode Island

Figure S-19
BYPASS PUMPING CONNECTION AT PUMP STATION

Standard Sanitary Sewer Requirements

Date: 2019

Scale: No Scale



**TOWN OF NEW SHOREHAM
POLICY
PRIVATE SEWER / WATER LINES - INSTALLATION**

1. If your property **is not** already in the Water/Sewer District, a letter requesting to be added to the District needs to be sent to the New Shoreham Sewer Commission @ P.O. Box 774 or Board of Water Commissioners @ Box 998, Block Island, RI 02807 listing the property owner's name, address, telephone numbers on/off island, Plat and Lot of parcel to be included.
2. If your property **is** in the Water/Sewer District, call to make an appointment with Water Superintendent at 466-3232 or Sewer Superintendent at 466-3231 for instructions and a permit application to connect.
3. With approval by the District, separate Allocations must be purchased for water and sewer. All charges/fees outstanding or due for water/sewer service must be paid in full before any new allocation for service can be approved through the New Shoreham Sewer and Water District Office. No Building Permit will be issued unless all Allocations are paid for.
4. Once the Allocation has been approved and paid for, then the applicant shall submit two (2) sets of plans for review: 1 set to the Town Engineer (James J. Geremia & Associates, Inc., 272 West Exchange St., Suite 201, Providence, RI 02903) and 1 set submitted to the Water Superintendent and/or 1 set to the Sewer Superintendent for review and approval.
5. Upon receipt of approval for the plans, the Applicant can then apply for a permit to connect (water or sewer). The permit application must contain the signatures of the property owner and the Rhode Island licensed Underground Utility Contractor or Master Plumber.
6. The Applicant must obtain the necessary road opening permits from the Town's Public Works Department and/or RIDOT, as applicable. Note that a Town Road Opening Permit is required for any work in a Town right-of-way.
7. Prior to commencing the work, the Underground Utility Contractor/Master Plumber must provide the Water/Sewer Superintendent at least two (2) work days prior to starting the work. No work requiring inspection shall be performed on Saturdays or Sundays without approval of the Water/Sewer Superintendent.
8. The inspection shall be performed by the Water/Sewer Superintendent or his/her duly authorized representative.
9. The Applicant must strictly conform to all existing ordinances and to all ordinances, rules and regulations relating to the use of public water/sewer as presented in the Town's Utilities Standards.
10. All contractors must be Rhode Island licensed Underground Utility Contractors or Master Plumbers.
11. In any new construction, a Certificate of Occupancy (CO) will not be issued until the Building Official is notified that an inspection of lines by the Water/Sewer Department is complete, as-built plans are provided, and the Superintendent has approved the work.

Office of the New Shoreham Sewer and Water Districts
Box 774, Block Island, RI 02807
401-466-3231 Mon. – Fri. 8:00 AM-3:00 PM

New Shoreham Sewer Commission Adopted March 18, 2019

New Shoreham Board of Water Commissioners Adopted March 18, 2019

Date: _____
Permit #: _____

Official Use Only

Town of New Shoreham Sewer District
P.O. Box 774 Block Island, RI 02807



**Application to Connect to the New Shoreham Sewer District Sewer Lines
and/or private lines serviced by municipal sewer**

☐ Residential ☐ Commercial

1. Property Owner:

Name: _____ Company Name: _____

Billing Address: _____ City, State: _____

Zip: _____ Phone: _____ Email: _____

2. Connection Description: ☐ Gravity ☐ Low Pressure

Is the connection a part of a subdivision? ☐ YES ☐ NO

Plat: _____ Lot: _____ Sublot: _____ Fire #: _____ Street: _____

☐ New Construction ☐ Existing Building ☐ Private ☐ Public

3. Construction/Installation: ☐ District Engineer Approval (attach approval letter)

Does the installation require a road alteration permit? ☐ YES ☐ NO If YES, approvals required below

Does the installation affect a public right-of-way? ☐ YES ☐ NO If YES, approvals required below

Signature of Director of Public Works

Date

Signature of Superintendent of Roads

Date

Installer Information: ☐ Master Plumber or ☐ Underground Utility Contractor

Name: _____ Company Name: _____

RI License #: _____ Address: _____

City, State: _____ Zip: _____ Phone: _____

Email: _____ Construction Start Date: _____ End Date: _____

4. Fees: ☐ Account Fee ☐ Permit Fee ☐ Inspection Fee Fees Collected: \$ _____

☐ Engineer Plan Review Fee (if applicable): \$ _____ ☐ Allocation Purchased

The Owner's and Installer's signatures certifies that the "New Shoreham Sewer District's Policy for Private Sewer/Sewer Lines Installation" has been reviewed, that the application is complete and accurate, and Owner and Installer agree to fully comply with the New Shoreham Sewer District's Utility Standards and Rules and Regulations as a condition of the application approval.

Signature of Property Owner

Date

Signature of Installer

Date

This Application must be returned to the Sewer Superintendent in order to receive a permit to connect.

Signature of Sewer Superintendent

Date