

Part 1 General

1.1 SECTION INCLUDES

- .1 **SPEC NOTE:** This section specifies stainless-steel trench drain channels, associated catch basin grates, and accessories by Trench Drain Systems for residential and light commercial use. This section assumes that the Products specified will be compatible with the piping specified in a different section, as referenced in Related Requirements.
- .2 Stainless-steel trench drain channels.
- .3 Catch basin grates.
- .4 Accessories.

1.2 RELATED REQUIREMENTS

- .1 **SPEC NOTE:** In this article, indicate those sections that inter-rely on this section. The listing below is only partial and should be edited to include those sections specific to the project that describe subjects or products that affect this section directly.
- .2 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- .3 Section 03 20 00 - Concrete Reinforcing: Trench drain concrete encasement reinforcing.
- .4 Section 03 30 00 - Cast-in-Place Concrete: Trench drain concrete encasement.
- .5 Section 22 13 16 - Sanitary Waste and Vent Piping: Piping installation requirements.
- .6 Section 22 13 19 - Sanitary Waste Piping Specialties: Backwater valves, air admittance devices and miscellaneous sanitary drainage piping specialties.
- .7 Section 22 13 23 - Sanitary Waste Interceptors: Grease interceptors and removal devices, oil interceptors, sand interceptors, and solid interceptors.
- .8 Section [33 36 33 - Utility Drainage Field: Utility piping installation requirements.]

1.3 REFERENCE STANDARDS

- .1 **SPEC NOTE:** Edit this article after editing the rest of this section. Only list reference standards below that are actually referenced within the text of this section. When editing for a project specification, delete other references that do not apply. Comparable Canadian and US are listed for some products.
- .2 AASHTO M 306-10 (2023) - Standard Specification for Drainage, Sewer, Utility, and Related Castings.
- .3 ADA Standards for Accessible Design, 2020.
- .4 ASME A112.3.1-2007 (R2022) - Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above- and Below Ground.
- .5 ASTM A240/A240M-24b - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- .6 CSA B79:08 – Commercial and Residential Drains and Cleanouts.
- .7 CSA B651-18 - Accessible Design for the Built Environment.
- .8 NSF/ANSI/CAN 61-2023 - Drinking Water System Components - Health Effects.

1.4 DEFINITIONS

- .1 The following abbreviations and acronyms apply to the manufacturers proprietary model numbers referenced in this section:
 - .1 B: Bottom Outlet Channel.
 - .2 H: Half-Channel.
 - .3 HLC: High-Load Capacity.
 - .4 N: Neutral (Flat) Channel.

1.5 ADMINISTRATIVE REQUIREMENTS

- .1 Section 01 31 00: Project management and coordination procedures.
- .2 **SPEC NOTE:** Add or delete coordination clauses as required to suit the Project.
- .3 Coordination:
 - .1 Coordinate with Section 03 20 00 - Concrete Reinforcing for installation of trench drain concrete encasement reinforcing.
 - .2 Coordinate with Section 03 30 00 - Cast-in-Place Concrete for installation of trench drain concrete encasement.
 - .3 Coordinate with Section 22 13 16 - Sanitary Waste and Vent Piping for piping installation requirements.
 - .4 Coordinate with Section 22 13 19 - Sanitary Waste Piping Specialties for installation of backwater valves, air admittance devices and miscellaneous sanitary drainage piping specialties.
 - .5 Coordinate with Section 22 13 23 - Sanitary Waste Interceptors for installation of grease interceptors and removal devices, oil interceptors, sand interceptors, and solid interceptors.

1.6 ACTION SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Submit manufacturer's instructions, printed product literature and data sheets for proprietary materials used in sanitary drainage and include product characteristics, performance criteria, physical size, finish, and limitations.
- .3 Shop Drawings: Submit in accordance with the provisions specified in Section [03 11 00 - Concrete Forming].

1.7 INFORMATIONAL SUBMITTALS

- .1 Section 01 33 00: Submission procedures.
- .2 Certifications: Submit third party certificates indicating compliance with load class requirements.

1.8 CLOSEOUT SUBMITTALS

- .1 Section 01 78 00: Submission procedures.
- .2 Record Drawings: Submit drawings identifying locations of all sanitary drains and list their components and reordering instructions.

1.9 MAINTENANCE MATERIAL SUBMITTALS

- .1 Section 01 78 23: Maintenance and extra material requirements.

.2 Extra Materials:

- .1 Supply minimum a minimum of [2] spare grates, channels and accessories for each size provided.
- .2 Supply [3] grate removal tools.

1.10 QUALITY ASSURANCE

- .1 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three (3) years documented experience.
- .2 Installer Qualifications: Company specializing in performing the work of this section with minimum three (3) years documented experience and approved by the manufacturer.
- .3 Single Source Responsibility: Provide all materials, products, and equipment in this section sourced from one (1) manufacturer.

1.11 DELIVERY, STORAGE AND HANDLING

- .1 Section 01 61 00: Transport, handle, store, and protect products.
- .2 Deliver materials in manufacturer's packaging including application instructions.

Part 2 Products

2.1 MANUFACTURERS

- .1 Trench Drain Systems, P.O. Box 377, Fremont, OH 43420; P: (610) 638-1221, www.trenchdrain.com.
- .2 Substitutions: [Refer to Section 01 25 00] [Not permitted].

2.2 PERFORMANCE/DESIGN CRITERIA

- .1 Regulatory Requirements: Provide sanitary drains with label, stamp, or other markings of specified testing agency as required by local code.
- .2 Concrete Encasement and Reinforcing: Refer to Structural Drawings.
- .3 Load Ratings: Provide grates with Load Class Rating [[A] [B] [C] [D] [E] [F] [H20]] to [[CSA B79] [ASME 112.3.1]].
- .4 Comply with NSF/ANSI/CAN 61-2023 - Drinking Water System Components - Health Effects.

2.3 MATERIALS

- .1 Stainless-Steel Sheet: ASTM A240/A240M, [1.3 mm] [16-gauge], Type [304] [316] stainless-steel.
- .2 Piping and Connections: Refer to Division 22 - Plumbing.

2.4 TRENCH DRAIN CHANNELS

- .1 **SPEC NOTE:** Mechanical lockdown devices are required where ADA/CSA-B651 compliance is required.
- .2 Shallow Trench Drain Channels: ASTM A240/A240M, Type [304] [316] stainless-steel, U-shaped; 1.3 mm (16-gauge) with 158 mm (6-1/2-inch) outside channel width, [[1220 mm (48-inches)] [1829 mm (72-inches)] [2439 mm (96-inches)]] long, with 100 mm (4-inch) throat, complete with end or bottom outlet connections, bolted flange connection between channel sections, legs for securing trenches [and mechanical lockdown devices].

- .1 **SPEC NOTE:** SS500 Series Typical Applications: Breweries, Chemical Plants, Distilleries, Food Processing, Dairy Processing, Restaurants, Salt Water Pools, and Marine Applications.
- .2 Slope: [Neutral] [0.5% pre-slope].
- .3 **SPEC NOTE:** Refer to the manufacturers literature regarding inlet/outlet depths as they related to channel model numbers used in this section and select the appropriate depths to suit the product.
- .4 Inlet Depth: [[50 mm (2-inches)] [63.5 mm (2-1/2-inches)] [76 mm (3-inches)] [89 mm (3-1/2-inches)] [100 mm (4-inches)] [114 mm (4-1/2-inches)]].
- .5 Outlet Depth: [[50 mm (2-inches)] [63.5 mm (2-1/2-inches)] [76 mm (3-inches)] [89 mm (3-1/2-inches)] [100 mm (4-inches)] [114 mm (4-1/2-inches)] [127 mm (5-inches)]].
- .6 End/Bottom Outlet Diameter: 100 mm (4-inches).
- .7 [Provide transition channels for bridging shallow channels with standard trench drain channels specified in this section to an additional depth of [] and length of [].]
- .8 Product: SS500 Series, Model: [SS0500N] [SS0501] [SS0501N] [SS0502] [SS0502N] [SS0503] [SS0503N] [SS0504] [SS0504N] [SS0505] [SS0505B] [SS0505-4] [SS0505-6] [SS0505N] [SS0506] [SS0506B] by Trench Drain Systems.
 - .1 Installation Chair: DA0633S by Trench Drain Systems.
 - .2 Installation Hardware: HW PK SS500 by Trench Drain Systems.
 - .3 Solid End Cap: SS0500 EC by Trench Drain Systems.
 - .4 Catch Basin: [150 mm x 600 mm (6-inches x 24-inches)] [300 mm x 600 mm (12-inches x 24-inches)] [600 mm x 600 mm (24-inches x 24-inches)]. Product: [SS0650] [SS0651] [SS0653] by Trench Drain Systems.
 - .5 Angle and Tee Connections: SS0500 FAB by Trench Drain Systems.
 - .6 Locking Device: [Stainless steel] [Ductile iron] [Fibreglass] [Ductile iron and steel] [Mesh]. Product: [SS0542S] [SS0542B] [SS0542F] [SS651-HW FGS] [SS651-HW FGHD] [SS651-HW FGM] by Trench Drain Systems.
 - .7 Baskets: [150 mm x 600 mm (6-inches x 24-inches)] [300 mm x 600 mm (12-inches x 24-inches)]. Product: [SS0650TC] [SS0651TC] by Trench Drain Systems.
- .3 Standard Trench Drain Channels: ASTM A240/A240M, Type [304] [316] stainless-steel, V-shaped; 1.3 mm (16-gauge) with 158 mm (6-1/2-inch) outside channel width, [600 mm (24-inches)] [1220 mm (48-inches)] long, with 100 mm (4-inch) throat, complete with end or bottom outlet connections, bolted flange connection between channel sections, legs for securing trenches [and mechanical lockdown devices].
 - .1 **SPEC NOTE:** SS600 Series Typical Applications: Breweries, Distilleries, Wineries, Salt Water Pools, Restaurant, Food, Processing, Dairy Processing, and Marine Applications.
 - .2 Slope: [Neutral] [0.5% pre-slope].
 - .3 **SPEC NOTE:** Refer to the manufacturers literature regarding inlet/outlet depths as they related to channel model numbers used in this section and select the appropriate depths to suit the product.
 - .4 Inlet Depth: [89 mm (3-1/2-inches)] [100 mm (4-inches)] [114 mm (4-1/2-inches)] [127 mm (5-inches)] [139.7 mm (5-1/2-inches)] [152 mm (6-inches)] [165 mm (6-1/2-inches)] [178 mm (7-inches)] [190 mm (7-1/2-inches)] [200 mm (8-inches)] [216 mm (8-1/2-inches)] [228 mm (9-inches)] [241 mm (9-1/2-inches)] [254 mm (10-inches)] [267 mm (10-1/2-inches)] [279 mm (11-inches)] [292 mm (11-1/2-inches)] [300 mm (12-inches)] [317 mm (12-1/2-

- inches)] [330 mm (13-inches)] [343 mm (13-1/2-inches)] [355 mm (14-inches)] [368 mm (14-1/2-inches)] [381 mm (15-inches)] [394 mm (15-1/2-inches)] [406 mm (16-inches)].
- .5 Outlet Depth: [89 mm (3-1/2-inches)] [100 mm (4-inches)] [114 mm (4-1/2-inches)] [127 mm (5-inches)] [139.7 mm (5-1/2-inches)] [152 mm (6-inches)] [165 mm (6-1/2-inches)] [178 mm (7-inches)] [190 mm (7-1/2-inches)] [200 mm (8-inches)] [216 mm (8-1/2-inches)] [228 mm (9-inches)] [241 mm (9-1/2-inches)] [254 mm (10-inches)] [267 mm (10-1/2-inches)] [279 mm (11-inches)] [292 mm (11-1/2-inches)] [300 mm (12-inches)] [317 mm (12-1/2-inches)] [330 mm (13-inches)] [343 mm (13-1/2-inches)] [355 mm (14-inches)] [368 mm (14-1/2-inches)] [381 mm (15-inches)] [394 mm (15-1/2-inches)] [406 mm (16-inches)].
- .6 End/Bottom Outlet Diameter: [50 mm (2-inches)] [75 mm (3-inches)] [100 mm (4-inches)].
- .7 Maximum Flow Rate: 470 GPM.
- .8 [Provide transition channels for bridging standard channels with shallow trench drain channels specified in this section to an additional depth of [] and length of [].]
- .9 Product: SS600 Series, Model: [SS0600N] [SS0600NB] [SS0601] [SS0602] [SS0603] [SS0604] [SS0605] [SS0605B] [SS0605H] [SS0605HB] [SS0605N] [SS0606] [SS0607] [SS0608] [SS0609] [SS0610] [SS0610B] [SS0610H] [SS0610HB] [SS0610N] [SS0611] [SS0612] [SS0613] [SS0614] [SS0615] [SS0615B] [SS0615H] [SS0615HB] [SS0615N] [SS0616] [SS0617] [SS0618] [SS0619] [SS0620] [SS0621] [SS0622] [SS0623] [SS0624] [SS0625] [SS0625B] [SS0625HB] [SS0625N] by Trench Drain Systems.
- .1 Installation Chair: DA0633S by Trench Drain Systems.
- .2 Installation Hardware: HW PK SS600 by Trench Drain Systems.
- .3 Solid End Cap: SS0600 EC by Trench Drain Systems.
- .4 End Outlet: SS0600 EO Trench Drain Systems.
- .5 Catch Basin: [150 mm x 600 mm (6-inches x 24-inches)] [300 mm x 600 mm (12-inches x 24-inches)] [600 mm x 600 mm (24-inches x 24-inches)]. Product: [SS0650] [SS0651] [SS0652] by Trench Drain Systems.
- .6 Angle and Tee Connections: SS0600 FAB by Trench Drain Systems.
- .7 Locking Device: [Stainless steel] [Ductile iron] [Fibreglass] [Ductile iron and steel] [Mesh]. Product: [SS0642S] [SS0642B] [SS0642F] [SS651-HW FGS] [SS651-HW FGHD] [SS651-HW FGM] by Trench Drain Systems.
- .8 Baskets: [150 mm x 600 mm (6-inches x 24-inches)] [300 mm x 600 mm (12-inches x 24-inches)]. Product: [SS0650TC] [SS0651TC] by Trench Drain Systems.
- .4 High-Capacity Trench Drain Channels: ASTM A240/A240M, Type [304] [316] stainless-steel, V-shaped; 1.3 mm (16-gauge) with 400 mm (16-inch) outside channel width, [600 mm (24-inches)] [1220 mm (48-inches)] long, with 317 mm (12-1/2-inch) throat, complete with end or bottom outlet connections, bolted flange connection between channel sections, legs for securing trenches [and mechanical lockdown devices].
- .1 SPEC NOTE: SS1200 Series Typical Applications: Breweries, Distilleries, Wineries, Salt Water Pools, Medical Facilities, Restaurant, Food, Processing, Dairy Processing, and Marine Applications.
- .2 Slope: [Neutral] [1% pre-slope].
- .3 SPEC NOTE: Refer to the manufacturers literature regarding inlet/outlet depths as they related to channel model numbers used in this section and select the appropriate depths to suit the product.

- .4 Inlet Depth: [152 mm (6-inches)] [165 mm (6-1/2-inches)] [178 mm (7-inches)] [190 mm (7-1/2-inches)] [200 mm (8-inches)] [216 mm (8-1/2-inches)] [228 mm (9-inches)] [241 mm (9-1/2-inches)] [254 mm (10-inches)] [267 mm (10-1/2-inches)] [279 mm (11-inches)] [292 mm (11-1/2-inches)] [300 mm (12-inches)] [317 mm (12-1/2-inches)] [330 mm (13-inches)] [343 mm (13-1/2-inches)] [355 mm (14-inches)] [368 mm (14-1/2-inches)] [381 mm (15-inches)] [394 mm (15-1/2-inches)] [406 mm (16-inches)].
- .5 Outlet Depth: [152 mm (6-inches)] [165 mm (6-1/2-inches)] [178 mm (7-inches)] [190 mm (7-1/2-inches)] [200 mm (8-inches)] [216 mm (8-1/2-inches)] [228 mm (9-inches)] [241 mm (9-1/2-inches)] [254 mm (10-inches)] [267 mm (10-1/2-inches)] [279 mm (11-inches)] [292 mm (11-1/2-inches)] [300 mm (12-inches)] [317 mm (12-1/2-inches)] [330 mm (13-inches)] [343 mm (13-1/2-inches)] [355 mm (14-inches)] [368 mm (14-1/2-inches)] [381 mm (15-inches)] [394 mm (15-1/2-inches)] [406 mm (16-inches)].
- .6 End/Bottom Outlet Diameter: [100 mm (4-inches)] [152 mm (6-inches)] [200 mm (8-inches)].
- .7 Product: SS1200 Series, Model: [SS1200N] [SS1201] [SS1202] [SS1203] [SS1204] [SS1205] [SS1205B] [SS1205H] [SS1206] [SS1207] [SS1208] [SS1209] [SS1210] [SS1210B] [SS1210H] [SS1210N] [SS1211] [SS1212] [SS1213] [SS1214] [SS1215] [SS1215B] [SS1215H] [SS1216] [SS1217] [SS1218] [SS1219] [SS1220] [SS1220B] [SS1220H] [SS1220N] by Trench Drain Systems.
 - .1 Installation Chair: DA1233S by Trench Drain Systems.
 - .2 Installation Hardware: HW PK SS1200 by Trench Drain Systems.
 - .3 Solid End Cap: SS1200 EC by Trench Drain Systems.
 - .4 End Outlet: SS1200EO[4] [6] [8] by Trench Drain Systems.
 - .5 Catch Basin: [406 mm x 600 mm (16-inches x 24-inches)] [600 mm x 600 mm (24-inches x 24-inches)]. Product: [SS1251] [SS1253] by Trench Drain Systems.
 - .6 Angle and Tee Connections: SS1200 FAB by Trench Drain Systems.
 - .7 Locking Device: [Stainless steel] [Ductile iron] [Fibreglass] [Ductile iron and steel]. Product: [SS0542S] [SS0542B] [SS0542F] [SS651-HW FGS] [SS651-HW FGHD] [SS651-HW FGM] by Trench Drain Systems.
 - .8 Baskets: DA1251TC by Trench Drain Systems.

2.5 TRENCH DRAIN GRATES

- .1 Stainless Steel Grates: ASTM A240/A240M, for use with channels, with predrilled holes for installation.
 - .1 Performance: Class [A] [B] [C] [D].
 - .2 Pattern: [Cathedral] [Cathedral Reinforced] [Slotted] [Slotted Reinforced] [Perforated] [Perforated Reinforced] [Deco] [Wedge Wire] [Wedge Wire Reinforced] [Bar].
 - .3 Product: [DG0630/H Stainless Steel Cathedral – Class A] [DG0630R/RH Stainless Steel Cathedral Reinforced – Class C] [DG0631 Stainless Steel Slotted – Class A] [DG0631R/RH Stainless Steel Slotted Reinforced – Class C] [DG0632 Stainless Steel Perforated – Class A] [DG0632R/RH Stainless Steel Perforated Reinforced – Class C] [DG0633 Stainless Steel Deco – Class A] [DG0633R/RH Stainless Steel Deco – Class C] [DG0647/H Stainless Steel Slotted – Class A] [DG0647R/RH Stainless Steel Slotted Reinforced – Class C] [DG0657/H Stainless Steel Perforated – Class A] [DG0657R/RH Stainless Steel Perforated Reinforced – Class C] [DG0655 Stainless Steel Wedge Wire – Class B] [DG0655R/RH Stainless Steel

Wedge Wire Reinforced – Class C] [DG0669/H Stainless Steel Bar – Class D] by Trench Drain Systems.

- .2 Polyethylene Grates: High-density polyethylene, for use with channels, with predrilled holes for installation.
 - .1 Performance: Class A.
 - .2 Pattern: Slotted.
 - .3 Colour: [Black] [Grey].
 - .4 Product: [DG0670 Polyethylene Slotted, Black] [DG0670G Polyethylene Slotted, Grey] by Trench Drain Systems.
- .3 Ductile Iron: [[ADA] [CSA-B651]] compliant, for use with channels, with predrilled holes for installation.
 - .1 Performance: Class D.
 - .2 Pattern: [Transverse Slotted] [Slotted].
 - .3 Product: [DG0675HD Ductile Iron Transverse Slotted] [DG0641D Ductile Iron Slotted] by Trench Drain Systems.
- .4 Fibreglass Reinforced Plastic: [[ADA] [CSA-B651]] compliant gritted non-slip surface.
 - .1 Performance: Class [B] [C].
 - .2 Pattern: Bar.
 - .3 Spacing: [16 mm (5/8-inch)] [9.5 mm (3/8-inch)].
 - .4 Product: [DG0644/H Fiberglass Bar 5/8" Spacing – Class B] [DG0644SP/SPH Fiberglass Bar 3/8" Spacing – Class C] by Trench Drain Systems.

2.6 CATCH BASIN GRATES

- .1 Stainless Steel Grates: ASTM A240/A240M, for use with catch basins, with predrilled holes for installation.
 - .1 Performance: Class C.
 - .2 Pattern: Bar.
 - .3 Nominal Dimensions: [300 mm (12-inches)] [600 mm (24-inches)] x 600 mm (24-inches).
 - .4 Product: [DG2447R Stainless Steel Bar - Class C][FG1247R Stainless Steel Bar 12" x 24" – Class C] by Trench Drain Systems.
- .2 Ductile Iron: For use with catch basins, with predrilled holes for installation [and [ADA] [CSA-B651]] compliant].
 - .1 Performance: Class [C] [E] [F].
 - .2 Pattern: [Transverse Slotted] [Slotted].
 - .3 Nominal Dimensions: [300 mm (12-inches)] [600 mm (24-inches)] x 600 mm (24-inches).
 - .4 Product: [FG1241 Ductile Iron Slotted 12" x 24" – Class C] [FG1242 Ductile Iron Slotted 12" x 24" – Class E] [FG1275 Ductile Iron Transverse Slotted ADA 12" x 24" – Class E] [FG1246 Ductile Iron Slotted 12" x 24" – Class F] [DG0653D Ductile Iron Slotted 24" x 24" – Class F] by Trench Drain Systems.
- .3 Fibreglass: For use with catch basins, with predrilled holes for installation.
 - .1 Performance: Class [A] [C] [H20].

- .2 Pattern: [Mesh] [Bar].
- .3 Nominal Dimensions: [300 mm (12-inches)] [600 mm (24-inches)] x 600 mm (24-inches).
- .4 Product: [FG1245 Fiberglass Mesh 12" x 24" – Class A] [FG1244 Fiberglass HLC 12" x 24" – Class H20] [DG0659 Fiberglass Bar 24" x 24" – Class A] [DG2444 Fiberglass Bar 24" x 24" Class C] by Trench Drain Systems.

2.7 COVERS

- .1 Stainless Steel: ASTM A240/A240M, for use with catch basins, with predrilled holes for installation.
 - .1 Performance: Class [A] [C].
 - .2 [Pattern: Bar.]
 - .3 [Nominal Dimensions: 600 mm (24-inches) x 600 mm (24-inches).]
 - .4 Product: [DG0667/H Stainless Steel Cover – Class A] [DG0667R/RH Stainless Bar 24" x 24" – Class C] by Trench Drain Systems.
- .2 Ductile Iron: For use with catch basins, with predrilled holes for installation [and [ADA] [CSA-B651]] compliant].
 - .1 Performance: Class D.
 - .2 Product: DG0641S Ductile Iron – Class D by Trench Drain Systems.

Part 3 Execution

3.1 EXAMINATION

- .1 Section 01 71 00: Verify existing conditions before starting work.
- .2 Verify that field conditions are acceptable and are ready to receive work.
- .3 Verify dimensions, tolerances, and method of attachment with piping and connections specified in Division 22.
- .4 Correct unsatisfactory conditions.

3.2 INSTALLATION

- .1 **SPEC NOTE:** In this article, retain only those sanitary piping specialties that are specified in Part 2. Additional instructions may be required for special applications. Show locations of specialties in plans, details, and schematics on Drawings. Coordinate with Section 33 36 33 - Utility Drainage Fields.
- .2 **SPEC NOTE:** Coordinate installation requirements with data shown on all disciplines Drawings.
- .3 Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor, unless otherwise indicated on the Drawings.
 - .1 Position floor drains for easy access and maintenance.
 - .2 Set floor drains below elevation of surrounding finished floor to allow floor drainage.
 - .3 Set with grates depressed according to the following drainage area radii:
 - .1 Radius of 750 mm (30-inches) or Less: Equivalent to 1 percent slope, but not less than 6 mm (1/4-inch) total depression.
 - .2 Radius of 750 mm to 1500 mm (30 to 60-inches): Equivalent to 1% slope.

- .3 Radius of 1500 mm (60-inches) or Larger: Equivalent to 1% slope, but not greater than 25 mm (1-inch) total depression.
- .4 Install floor-drain flashing collar or flange, so no leakage occurs between drain and adjoining flooring. Maintain integrity of waterproof membranes where penetrated.
- .5 Install individual traps for floor drains connected to sanitary building drain, unless otherwise indicated.
- .4 Install trench drains at low points of surface areas to be drained.
- .5 Set grates of drains flush with finished surface, unless otherwise indicated.
- .6 **SPEC NOTE:** Retain the clause below if drains complying with ASME A112.3.1 (heel resistance) are required.
- .7 [Comply with ASME A112.3.1 for installation of drainage systems.]
- .8 Install drainage system components on support devices so that top is flush with adjacent surface.
- .9 Seal adjacent drain units with compatible sealant to prevent leaks at joints between modules.
- .10 Install open drain fittings with top of hub [25 mm (1-inch)] [50 mm (2-inches)] [] above floor.

3.3 PROTECTION

- .1 Section 01 78 23: Protecting installed work.
- .2 Protect drains during construction period to avoid clogging with dirt or debris and to prevent damage from traffic or construction work.
- .3 Place plugs in ends of uncompleted piping at end of each day or when work stops.

3.4 SCHEDULE

- .1 **SPEC NOTE:** Include a schedule of drain types and sizes here, using the same terminology used in Part 2 to distinguish the different products. If necessary, use project type codes in the article titles.

Edit the table provided to suit the products specified, or list them below.

.2

Location	Drain Type (Model)	Size	Grate Type	Load Class	Additional Notes
Restaurant/Kitchen	SS500	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 100 mm (4-inches)	Stainless Steel, Transverse, Slotted	A	0.5% slope
Restroom	SS500	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 50 mm (2-inches)	Stainless Steel, Cathedral	A	Neutral slope
Restaurant	SS600	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 100 mm (4-inch)	Stainless Steel, Perforated	C	0.5% slope
Distillery/Brewery	SS600	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 279 mm (4-inches)	Stainless Steel, Slotted	C	0.5% slope
Saltwater Pool	SS600	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 150 mm (6-inches)	Stainless Steel, Deco	A	0.5% slope
Food Processing	SS600	158 mm (6-1/2-inches) x [1220 mm (48-inches)] x 300 mm (12-inches)	Stainless Steel, Bar Grate	D	0.5% slope
Chemical Processing	SS1200	400 mm (16-inches) x [1220 mm (48-inches)] x 279 mm (4-inches)	Stainless Steel, Bar Grate	H20	0.5% slope

.3 []

END OF SECTION