SECTION 220576 -- FACILITY DRAINAGE PIPING CLEANOUTS

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PART 1 GENERAL

1. SUMMARY
2. General
3. Read this Section in conjunction with other related Sections, Division 01 General Requirements, the Design Drawings and the Contract Conditions.
4. Performance Specified Work
5. Refer to the Contractor's Responsibilities in Division 01 General Requirements, Section 011000

Summary for specific requirements.

1. Supply, deliver, install and warrant the work in strict compliance with the materials and workmanship requirements of the Specification.
2. Where required to prepare Shop Drawings, these shall be limited to final detailing of components, systems indicated on the Design Drawings, necessary to demonstrate their safe installation.
3. Where products are offered by the Contractor for acceptance by the Engineer, provide full supporting documentation in respect of the complete system or installation.
4. Included Systems/ Products
5. Cleanouts for plumbing piping.
   1. SUBMITTALS
6. General: Comply with the requirements of Division 01 General Requirements, Section 013300 Submittal Procedures and submit the following.
7. Post Contract Submittals
8. Shop Drawings: Indicate cleanout materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.
9. Product Data: Provide manufacturers catalog information.
10. Supplementary Product Literature: Include a statement from the manufacturer for the design life of the system.
11. List of tests included.
12. Certified test data.
13. Outline technical specifications reflecting proposed materials and systems.
14. A list of proposed suppliers and Subcontractors intended to be used.
15. Method Statement.
16. Quality Plan.
17. Summary of deviations from the Specification.
    1. CLOSEOUT SUBMITTALS

A. General: Comply with the requirements of Division 01 General Requirements, Section 017800 Closeout Submittals and submit the following.

1. Warranties.
2. Operation and Maintenance (O&M) Manuals: Include component list with manufacturer's reference numbers, descriptions of materials and procedures for repairing and cleaning of finishes and cleaning frequency. Include installation instructions and spare parts lists.
   1. QUALITY ASSURANCE
3. The manufacturer shall have at least 10 years of experience in the design and manufacture of specific equipment being supplied.
4. Cleanouts: Provide manufacturer's name, size and pressure rating marked on valve body.
5. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.
6. Standards: In addition to the requirements indicated on the Design Drawings, or specified in Division 01 General Requirements and Specification, the Work shall be in accordance with the following standards, codes and relevant statutory requirements.
7. Uniform Plumbing Code (UPC).
8. International Plumbing Code (IPC).
9. BSI Group, (BS) British Standards.
10. Provide testing and inspections in accordance with Division 01 General Requirements, Section 014000 Quality Requirements.
11. Preconstruction Testing/ Reports
12. Submit reports of independent tests demonstrating that the products and systems comply with the specified performance requirements.
13. Where test results for a material or product are not available, undertake testing to show compliance with the Specification at an independent testing laboratory acceptable to the Engineer.
14. The provision of testing data or the carrying-out of tests does not relieve the Contractor of his responsibilities regarding the performance requirements, durability or service life requirements.

PART 2 PRODUCTS

1. SYSTEMS/ PRODUCT

A. Cleanouts

1. Cleanouts are means of access to the interior of drainage pipes that close off a drain cleanout pipe for cleaning or unclogging the system. They shall be circular or square and be the same size as the pipe they are serving. Cleanouts shall be of various sizes and types to suit the requirements of the pipe.

1. DESIGN CRITERIA

A. Cleanouts for Plumbing Services

1. All concealed cleanouts shall have easy access for cleaning and inspection. Where concealed cleanouts have no direct access and installed in furred ceiling spaces, cleanouts shall extend up through floor slab above and the Engineer shall give specific acceptance to its location in the above floor space.
2. \*\*\*Cleanouts in terrazzo, tile or carpeted floors shall be complete with nickel bronze frame and square or round full opening nickel bronze access cover having terrazzo, tile or carpet recesses to permit in setting of the applicable flooring or floor covering material. Flat top cleanouts without recesses will not be acceptable.\*\*\*
3. Cleanouts in concrete floors shall be complete with polished bronze frame and scoriated nickel bronze tractor duty cover and internal brass or bronze plug.
4. Cleanouts in floors with a waterproof membrane shall be equal to the cleanouts specified above but with a flashing clamp device for attaching to the waterproof membrane below finished floor level.
5. Cleanouts at the base of each vertical stack and rain water leader shall be either Daisy-type or Barrett-type.
6. Cleanouts extending through walls in finished areas shall have stainless steel covering plates to permit access to cleanout plugs.
7. Cleanouts in ceiling spaces shall be proprietary screwed type as supplied by the HDPE piping manufacturer.
8. Where it is necessary to conceal a cleanout plug, a heavy duty stainless steel covering plate shall be provided, which shall permit ready access to the plug. Cleanout plugs shall be of heavy cast brass, of the screwed type.
9. Cleanouts shall be of the same nominal size as the pipes up to 100mm pipe diameter and not less than 100mm for larger piping.

EXECUTION

PART 3

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A.

EXAMINATION Verification of Conditions

1. Examine areas for compliance with requirements for installation and conditions affecting performance of the Work. Identify conditions detrimental to a proper and timely completion. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION

General

1. Remove scale and foreign material, from inside and outside, before assembly.
2. Prepare cleanout connections to pipes and equipment with flanges or unions. INSTALLATION General
3. Cleanouts shall be installed at each change of direction of drainage pipes inside the building and where indicated on the Design Drawings.
4. Cleanouts shall be not more than \*\*\*10m\*\*\* apart in horizontal lines. A cleanout shall be provided at or near the foot of each vertical waste or soil stack.
5. Cleanouts without direct access on concealed piping shall be extended through and terminate flush with finished wall or floor. Pits or chases may be left in the wall or floor, provided they are of sufficient size to permit removal of the cleanout plug and proper cleaning of the system.
6. Cleanouts shall be installed with a clearance of not less than 450mm for the purpose of rodding and cleaning.

END OF SECTION