Section 01.11.24

SCOPE OF WORK

The xyz Housing Authority Housing Authority (Owner) will be replacing xyz existing toilets with low flow models. The Contract shall remove and dismantle xyz existing toilets and provide and install new low flow toilets models identified in this specification.

The Owner will provide a dumpster for the dismantled toilets and will have them removed from the site by a separate vendor who has a bone fide method of recycling the old toilets. All packaging for the new toilets is the responsibility of the Contractor for removal and recycling off site.

Contractors must comply with the Supervision of Plumbing requirements of MGL c.142

§§3 & 3A. Contractors are prohibited from employing plumbers, apprentice plumbers, gas fitters, apprentice gas fitters or journeyman plumbers as 1099 - independent contractors.

PART 1 - GENERAL

* 1. GENERAL REQUIREMENTS
1. Work in this Section includes all labor, materials, equipment and services necessary to furnish completely and install the plumbing system specified herein, and in general as follows:
	1. Disconnect, make safe, cut and cap, and demolish existing equipment and appurtenances as may be required to accommodate the new work. The Contractor shall be responsible for removal and disposal of all debris generated by the demolition of the plumbing systems.
	2. Plumbing fixtures and associated trim and appurtenances.
	3. Testing.
	4. Operating instructions and maintenance manuals.
	5. Obtain and pay for all inspections, licenses, and approvals required by Governing Authorities and install all work in compliance thereof.
	6. SUBMITTALS AND PRODUCT DATA

A. Timeliness - The Contractor shall transmit each submittal to the Owner sufficiently in advance of performing related Work or other applicable activities so that the installation is not delayed by processing times, including disapproval and resubmittal (if required), coordination with other submittals, purchasing, delivery, and similar sequenced activities. No extension of time will be authorized because of the Contractor's failure to transmit submittals to the Owner in advance of the Work.

B. The Owner will review the Contractor's submittals and return them with one of the following actions recorded thereon by appropriate markings:

1. Final Unrestricted Release: Where marked "Approved" the Work covered by the submittal may proceed provided it complies with the requirements of the Contract Documents.
2. Returned for Resubmittal: When marked "Revise and Resubmit" or "Disapproved" the Work covered by the submittal (such as purchasing, delivery, or other activity) should not proceed. The submittal should be revised or a new submittal resubmitted without delay, in accordance with the Owner’s notations stating the reasons for returning the submittal.

C. See Article 15 of the General Provisions for “Or Equal” substitutions or submission.

1.3 DELIVERY

1. Coordinate delivery of toilets and other fixtures to be installed with the Owner.
2. The Contractor is responsible for storage of new toilets until toilet is installed.

1.4 SPECIAL WARRANTIES/GUARANTEES

A. Warranty all work (labor & materials) for a period of 1 year from the date of installation.

1.5 TIME OF COMPLETION

A. In accordance with the General Provision, the Work shall start as stated in the Notice to Proceed and shall be complete within 45 consecutive calendar days for the Base Bid.

PART 2 – MATERIALS

2.1 TOILETS AND ACCESSORIES

A. The Contractor shall provide and install replacement toilets and accessories. The toilet is will be a two piece, vitreous china, standard color white, fully glazed trap way having a minimum 2-1/8 inch trap dimension. The toilet is required to be a low flow model, with a maximum 1.28 gpf. All toilets will require new seats.

B. All toilets will be comfort height ADA toilet models.

C. Toilets will be identified as either floor or rear mount, and specified discharge location. They will also be specified as round or elongated and left or right handle via the attached matrix.

D. Toilet Models:

1. Floor mounted, floor discharge toilet models should be one of the following or approved equal:

1. American Standard Champion Pro (elongated or round )
2. Kohler Cimarron K-11451 (elongated) or K-3887 (round)
3. Toto Entrada (elongated or round versions)
4. Toto Drake II CST-454-CEFG (elongated or round)
5. Toto Eco Drake (elongated or round)
6. Niagara Flapperless EcoLogic HET

2. Floor mounted, rear discharge tank toilet models should be one of the following or approved equal:

1. American Standard Yorkville 2878.100 (elongated only) (1.1 gpf)
2. Kohler Barrington 3578-0 (elongated only) (1.0 gpf)
3. Mansfield Tank 155 & Bowl 151
4. Wall mounted, rear discharge with tank toilet models should be one of the following or approved equal:
	1. American Standard Glenwall 2093.100 (1.28 gpf)
	2. Gerber 0020021 Maxwell (1.28 gpf)
5. Floor mounted, floor discharge with manual flushometer toilet models should be one of the following or approved equal:
	1. Mansfield Adriatic – 1319
	2. American Standard Madera 3043.011
	3. Kohler Highline - 4405
6. Floor mounted, rear discharge with manual flushometer toilet models should be one of the following:
	1. American Standard Huron 3312.001
	2. Mansfield – 1313
	3. Kohler Anglesey - 4352

6. Wall mounted, rear discharge manual flushometer toilet models should be one of the following or approved equal:

1. American Standard Afwall 3351.101020 (elongated only)
2. Kohler Kingston 4325-0 (elongated only) (1.28 gpf)
3. Mansfield Erie - 1301

If wall mounted rear discharge toilets are specified, a manual flushometer is required, and should be one of the following or approved equal:

1. American Standard 6047.121.002 (1.28 gpf)
2. Kohler 13517-CP (1.28 gpf)
3. Sloan Crown 111-1.28
4. Mansfield Valve FM – T2

E. Installation accessories shall be indicated in the attached matrix, and may include any of the following:

1. Nuts, bolts, caps and wax ring (all toilets)
2. Flanges – cast iron pipe, unless existing conditions differ
3. Water stop ball valves and toilet tank supply
4. Floor cover plate – if removed, must match existing floor print

PART 3 – EXECUTION

3.1 INSTALLATION

A. Coordinate schedule of installations with the Owner, allowing for 48 hour notification to residents. All residents shall have operable toilets at the end of each day.

B. Move toilets from storage facility to each apartment/unit receiving a new toilet.

Identify any damage to the bathroom floor or wall that exists prior to new toilet installation.

C. Install new toilet (including new seat) according to manufacturer’s instruction including new water supply.

D. Install new 1/4 inch turn ball valve with flexible metal tank supply line with chrome escutcheon plate.

E. Provide gaskets or fillers as required to obtain a tight joint between the bottom of the new toilet and the existing floor.

F. Remove and properly dispose or recycle all packing materials, and other debris created by installation of new toilet.

3.2 SUBMISSION OF SAMPLES AND SAMPLE INSTALLATION

A. Unless otherwise specified in the individual section, the Contractor shall submit ONE specimens of each sample.

B. A transmittal notice with the Contractors stamp of approval shall be included with all sample submittals.

C. Samples that can be conveniently mailed shall be sent directly to the Owner accompanied by a transmittal notice. All transmittals shall be stamped with the Contractor's approval stamp of the material submitted.

D. Transmittal notice of samples so delivered with the Contractor's stamp of approval shall be mailed to the Owner.

E. If a sample is rejected a new sample shall be resubmitted in the specified manner. This procedure shall be repeated until the sample is approved.

F. Samples will not be returned unless return is requested at the time of submission. The right is reserved to require submission of samples whether or not particular mention is made in the specifications, at no additional cost to the Owner.

3.3 RECYCLING DISPOSAL

A. Remove existing, used toilets from the housing units to designated location on the Owner property where recycling contractor provides containers for collection of used toilets. Remove related materials including packaging materials for new products from the housing units to designated waste collection area for the property. See related section 01.74.19 Construction Waste Management and Disposal and 01.74.19.01 Pre-Construction Waste management Report.

3.4 CLEAN UP

A. Clean used toilets before placing in the dumpster, including separating flushing mechanism, toilet seat, remove tank/bowl gasket and old wax ring.

B. Clean apartment bathroom floor and repair any damage to walls, floors etc.

C. Do not dispose of any debris in the resident’s apartment.

* 1. TOILET SCHEDULE:
1. Toilet Matrix Attached, identifying:
	1. Location for installation,
	2. Number of toilets by mount (floor or rear), discharge (floor or rear), shape (round or elongated) and handle location (left or right side) requirements, and
	3. Accessories identified in Section E above.

END OF SECTION