
USACE / NAVFAC / AFCEC

UFGS-10 28 13 (August 2020)

Preparing Activity: USACE

Superseding UFGS-10 28 13 (August 2017)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated January 2024 *****************************

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SECTION 10 28 13

TOILET ACCESSORIES

08/20

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************************* USACE / NAVFAC / AFCEC UFGS-10 28 13 (August 2020) Preparing Activity: USACE Superseding UFGS-10 28 13 (August 2017) UNIFIED FACILITIES GUIDE SPECIFICATIONS References are in agreement with UMRL dated January 2024 **************************** SECTION 10 28 13 TOILET ACCESSORIES 08/20 ******************************* NOTE: This guide specification covers the requirements for toilet accessories suitable for a wide variety of applications. Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable item(s) or insert appropriate information. Remove information and requirements not required in respective project, whether or not brackets are present. Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR). ************************* PART 1 GENERAL

NOTE: For Army construction, buildings not excluded by the TI 800-01 Design Criteria will be accessible in accordance with 36 CFR, Part 1191, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

Drawings will indicate location, dimensions, elevations, schedules, details, and such other information as required to indicate the extent of the work.

Product selections will be based on aesthetic values and cost as related to project needs. *************************

1.1 REFERENCES

NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z535.4 (2011) Product Safety Signs and Labels

ASTM INTERNATIONAL (ASTM)

ASTM F2285 (2004; R 2016; E 2016) Standard Consumer

Safety Performance Specification for Diaper Changing Tables for Commercial Use

ASTM G21 (2015; R 2021; E 2021) Standard Practice

for Determining Resistance of Synthetic

Polymeric Materials to Fungi

U.S. DEPARTMENT OF DEFENSE (DOD)

MIL-STD-1691 (1994; Rev F) Construction and Material

Schedule for Military Medical and Dental

Facilities

1.2 SUBMITTALS

NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification technical editors have classified those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other

submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, if the submittal is sufficiently important or complex in context of the project.

For Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy and Air Force projects.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

Choose the first bracketed item for Navy and Air Force projects, or choose the second bracketed item for Army projects.

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are [for Contractor Quality Control approval.][for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

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Product Schedule; G[, [____]]
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Submit product Schedule indicating types, quantities, sizes, and installation locations by room for each toilet accessory item required. Identify locations using room designations indicated on the drawings.

SD-03 Product Data

[____]]

Recycled content for stainless steel toilet accessories; S

```
[ Item A4995 Table, Diaper Changing, Wall Mounted; G[, [____]]
][ Item A5030 Bench, Stall, Shower, Built In; G[, [____]]
][ Item A5047 Cabinet, Medicine; G[, [____]]
][ Item A5074 Soap Dish, Recessed, SS, Psychiatric; G[, [___]]
][ Item A5080 Dispenser, Paper Towel, SS, Surface Mounted; G[,
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][
          Item A5081 Dispenser, Paper Towel, SS, Recessed, Psychiatric; G[,
          [____]]
][
          Item A5082 Dispenser, Paper Towel, Sensor, Hands Free; G[, [____]]
          Item A5083 Dispenser, Paper Towel, Recessed; G[, [____]]
] [
][
          Item A5084 Dryer, Hands Free, Forced Air, Automatic; G[, [____]]
] [
          Item A5090 Disposal, Sanitary Napkin, SS, Surface Mounted; G[,
          Item A5109 Grab Bar, 32 mm 1-1/4 inch Dia., SS, 2 Wall, W/C
] [
          Accessible; G[, [____]]
          Item A5110 Grab Bar, 32 mm 1-1/4 inch Dia., SS, 2 Wall, Shower
] [
          Use; G[, [____]]
          Item A5112 Grab Bar, Psychiatric; G[, [____]]
] [
] [
          Item A5115 Grab Bar, Flip-Up, Heavy Duty; G[, [____]]
          Item A5135 Shelf, Utility W/ Mop/Broom Holders, SS, Surf Mntd; G[,
] [
][
          Item A5140 Hook, Garment, Security; G[, [____]]
          Item A5145 Hook, Garment, Double, SS, Surface Mounted; G[, [____]]
] [
] [
          Item A5150 Hook, Garment, Triple, Surface Mounted; G[, [____]]
][
          Item A5160 Shelf, 203 mm 8 inch Depth, SS, Surface Mounted; G[,
          [____]]
          Item A5162 Shelf, Fold Down, Stainless Steel; G[, [____]]
] [
          Item A5165 Shelf, 127 mm 5 inch Depth, SS, Surface Mounted; G[,
] [
          [____]]
] [
          Item A5166 Shelf, 305 mm 12 inch Depth, SS, Surface Mounted; G[,
          Item A5170 Rod, Shower Curtain, 25 mm 1 inch Diameter, W/Curtain &
] [
          Hooks; G[, [____]]
] [
          Item A5175 Soap Dish, With Bar, SS, Recessed; G[, [____]]
] [
          Item A5195 Dispenser, Toilet Tissue, SS, 1-Roll, Surface Mntd; G[,
          [____]]
][
          Item A5196 Dispenser, Toilet Tissue, Psychiatric; G[, [____]]
          Item A5200 Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd; G[,
] [
          [____]]
][
          Item A5202 Dispenser, Toilet Paper w/Utility Shelf, SS, 2-Roll; G
          [, [____]]
][
          Item A5205 Bar, Towel, 25 mm 1 inch Diameter, SS, Surface Mounted;
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G[, [____]]
][
          Item A5207 Bar, Towel, 25 mm 1 inch Diameter, SS, Surface Mntd,
          Psych; G[, [____]]
][
          Item L1200 Cabinet, Specimen, Pass Thru, CRS; G[, [____]]
1
          Submit catalog numbers, literature, data sheets, construction
          details, profiles, anchoring and mounting requirements [,including
          cutouts in other work and substrate preparation,] [,electrical
          characteristics,] and other pertinent data for each toilet
          accessory item to evaluate function, materials, dimensions and
          appearance.
     SD-07 Certificates
          Baby Changing Stations
      SD-10 Operation and Maintenance Data
[
          Item A4995 Table, Diaper Changing, Wall Mounted; G[, [____]]
][
          Item A5030 Bench, Stall, Shower, Built In; G[, [____]]
][
          Item A5047 Cabinet, Medicine; G[, [____]]
][
          Item A5074 Soap Dish, Recessed, SS, Psychiatric; G[, [____]]
][
          Item A5080 Dispenser, Paper Towel, SS, Surface Mounted; G[,
][
          Item A5081 Dispenser, Paper Towel, SS, Recessed, Psychiatric; G[,
          [____]]
][
          Item A5082 Dispenser, Paper Towel, Sensor, Hands Free; G[, [____]]
][
          Item A5083 Dispenser, Paper Towel, Recessed; G[, [____]]
][
          Item A5084 Dryer, Hands Free, Forced Air, Automatic; G[, [____]]
          Item A5090 Disposal, Sanitary Napkin, SS, Surface Mounted; G[,
][
               _]]
          Item A5109 Grab Bar, 32 mm 1-1/4 inch Dia., SS, 2 Wall, W/C
][
          Accessible; G[, [____]]
][
          Item A5110 Grab Bar, 32 mm 1-1/4 inch Dia., SS, 2 Wall, Shower
          Use; G[, [____]]
1 [
          Item A5112 Grab Bar, Psychiatric; G[, [____]]
          Item A5115 Grab Bar, Flip-Up, Heavy Duty; G[, [____]]
] [
] [
          Item A5135 Shelf, Utility W/ Mop/Broom Holders, SS, Surf Mntd; G[,
          [____]]
][
          Item A5140 Hook, Garment, Security; G[, [____]]
][
          Item A5145 Hook, Garment, Double, SS, Surface Mounted; G[, [____]]
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Item A5150 Hook, Garment, Triple, Surface Mounted; G[, [____]]
1 [
          Item A5160 Shelf, 203 mm 8 inch Depth, SS, Surface Mounted; G[,
] [
          [ ]]
][
          Item A5162 Shelf, Fold Down, Stainless Steel; G[, [____]]
] [
          Item A5165 Shelf, 127 mm 5 inch Depth, SS, Surface Mounted; G[,
          [____]]
] [
          Item A5166 Shelf, 305 mm 12 inch Depth, SS, Surface Mounted; G[,
             ]]
][
          Item A5170 Rod, Shower Curtain, 25 mm 1 inch Diameter, W/Curtain &
          Hooks; G[, [____
                          __]]
          Item A5175 Soap Dish, With Bar, SS, Recessed; G[, [____]]
] [
          Item A5195 Dispenser, Toilet Tissue, SS, 1-Roll, Surface Mntd; G[,
1 [
          [____]]
][
          Item A5196 Dispenser, Toilet Tissue, Psychiatric; G[, [____]]
][
          Item A5200 Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mntd; G[,
] [
          Item A5202 Dispenser, Toilet Paper w/Utility Shelf, SS, 2-Roll; G
          [, [ ]]
          Item A5205 Bar, Towel, 25 mm 1 inch Diameter, SS, Surface Mounted;
] [
          G[, [____]]
          Item A5207 Bar, Towel, 25 mm 1 inch Diameter, SS, Surface Mntd,
] [
          Psych; G[, [____]]
          Item L1200 Cabinet, Specimen, Pass Thru, CRS; G[, [____
][
]
          Submit Data Package 1 for each toilet accessory item [, and Data
          Package 2 for each electrical toilet accessory item,] in
          accordance with Section 01 78 23 OPERATIONS AND MAINTENANCE DATA.
[1.3
      CERTIFICATIONS
                  Insert the certification below for baby
            changing stations if baby changing stations are
            included in the project.
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1.3.1 Baby Changing Stations

Provide certification that baby changing stations meet the performance criteria of ${\tt ASTM}$ F2285.

Provide certification that baby changing stations meet the requirements of $\overline{\text{ANSI Z535.4}}$ Product Safety Signs and Labels.

Provide certification that baby changing stations meet the requirements of

ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.

]1.4 DELIVERY, STORAGE, AND HANDLING

Wrap toilet accessories for shipment and storage, then deliver to the jobsite in manufacturer's original packaging, and store in a clean, dry area protected from construction damage and vandalism.

1.5 WARRANTY

Provide manufacturer's warranty to repair or replace defective materials and workmanship for a period of [one year][____] [years] from date of final acceptance of the work..

PART 2 PRODUCTS

NOTE: Only those accessories and finishes normally suitable for military construction are included in this guide specification. When other accessories and finishes are required to meet the needs of the project, the specifier must add them. Maximum use should be made of recessed accessories in areas of hard usage.

2.1 ACCESSORY ITEMS

NOTE: Use materials with recycled content where appropriate for use. Verify suitability, availability within the region, cost effectiveness and adequate competition before specifying product

recycled content requirements.

Research shows these products are available among US national manufacturers above the minimum recycled content percentages shown below.

Provide toilet accessories where indicated in accordance with Contractor-provided product schedule. Conform to the requirements for accessory items specified herein which are based on MIL-STD-1691 Joint Schedule Numbers (JSN).[Porcelain type, tile-wall accessories are specified in Section 09 30 10 CERAMIC, QUARRY, AND GLASS TILING.] Provide each accessory item complete with the necessary mounting plates of sturdy construction with corrosion resistant surface.

Provide stainless steel products listed herein manufactured from materials containing a minimum of 50 percent recycled content. Provide data identifying percentage of recycled content for stainless steel toilet accessories.

2.1.1 Anchors and Fasteners

NOTE: Tamperproof fasteners will be specified for accessories which have exposed fasteners in areas

used by neuropsychiatric patients or prisoners and where theft or vandalism would be a problem. This guide specification places the responsibility with the Contractor for providing, subject to Government approval, fasteners and anchors of the type, size and number required to adequately secure the accessory items. Specific requirements for critical or unusual applications may refer to details on the drawings, or the specifications may be expanded to include the necessary requirements.

Provide corrosion-resistant anchors and fasteners capable of developing a restraining force commensurate with the strength of the accessory to be mounted and suited for use with the supporting construction. Provide [tamperproof design] [oval heads] exposed fasteners with finish to match the accessory. Provide fasteners proposed for use for each type of wall construction and mounting.

2.1.2 Finishes

Except where noted otherwise, provide the following finishes on metal:

Metal	Finish
Stainless steel	No. 4 satin finish
Carbon steel, copper alloy, and brass	Chromium plated, bright

[2.1.3 Item A4995 Table, Diaper Changing, Wall Mounted

Wall mounted diaper changing table. Construct unit of high density polyethylene plastic impervious to odors, mold and mildew; support a static load of minimum 136~kg~300~pounds. Provide unit to project out from wall approximately 114~mm~4-1/2 inches when in closed position. Provide contour shaped unit with safety strap. Mounting hardware included.

Approximate open dimensions: 508 mm 20 inches wide by 914 mm 36 inches long by 127 mm 5 inches deep. Approximate closed dimensions: 102 mm 4 inches deep by 914 mm 36 inches long by 533 mm 21 inches high.

][2.1.4 Item A5030 Bench, Stall, Shower, Built-In

Wall mounted shower seat. Frame made of 1.27~mm 18 gauge stainless steel with satin finish. Seat made of one piece of 13~mm 1/2 inch thick nonporous solid phenolic with slots to permit water to drain, secured to frame with stainless steel carriage bolts and acorn nuts. Mounting hardware included. Seat to support a minimum static load of 113~kg 250 pounds. Hinge seat to fold up when not in use. Seat complies with ADA guidelines.

Approximate size: 864 mm 34 inches wide by 559 mm 22 inches deep by 13 mm 1/2 inch thick.

Medicine cabinet constructed of heavy gauge stainless steel and have a

mirror mounted in swinging door, a minimum of three shelves, magnetic catch and full length piano hinge. Mirror is $6\ mm$ 1/4 inch thick first quality float glass electrolytically copper-plated and guaranteed against silver spoilage for 15 years. Cabinet door can be inverted to change from left to right hand swing. Unit has concealed mounting holes. Mounting hardware included.

Approximate size: 432 mm 17 inches wide by 635 mm 25 inches high by 102 mm 4 inches deep.

][2.1.6 Item A5074 Soap Dish, Recessed, SS, Psychiatric

Recessed mounted soap dish. Soap dish made of stainless steel with matte finish, drawn one-piece seamless construction. Back of unit has welded anchor nuts to receive threaded studs, which are provided with unit. Rim of unit beveled to insure tight fit to wall surface. Soap dish has raised dimples that allow water to drain away and provide a gripping surface to retain soap.

Approximate size: 178 mm 7 inches wide by 127 mm 5 inches high by 76 mm 3 inches deep.

][2.1.7 Item A5080 Dispenser, Paper Towel, SS, Surface Mounted

Surface mounted unit constructed of stainless steel with satin finish, welded construction, and have full length piano hinge, tumbler lock, refill indicator. Unit has smooth corners, free of burrs and sharp edges. Unit has a capacity of 400 single fold paper towels.

Approximate size: 279 mm 11 inches wide by 203 mm 8 inches high by 152 mm 6 inches deep.

Recessed paper towel dispenser made of stainless steel with brushed finish and satin interior. Unit has no loose or protruding parts and have concealed mounting, anchored to wall with welded anchor nuts. Edges of unit beveled to insure a tight fit to wall surface.

Approximate size: 457 mm 18 inches wide by 102 mm 4 inches deep by 203 mm 8 inches high.

][2.1.9 Item A5082 Dispenser, Paper Towel, Sensor, Hands Free

Surface mounted paper towel dispenser with hands free operation. Unit made of high impact plastic in a dark translucent color. Unit has the capacity of one standard 203 mm 8 inch wide by 203 mm 8 inch diameter 800 ft roll with optional paper length settings. Unit is battery operated by four "D" size alkaline batteries, and have low battery indicator light, or optional AC power adapter. Unit has keyed lock.

Approximate size: 305 mm 12 inches wide by 381 mm 15 inches high by 254 mm 10 inches deep.

][2.1.10 Item A5083 Dispenser, Paper Towel, Recessed

Recess mounted paper towel dispenser. Unit constructed of heavy gauge stainless steel with satin finish, all welded construction, have full length piano hinge and tumbler lock. Unit dispenses 300 C-fold or 400

multifold paper towels and be self-feeding until supply is depleted. Towel dispensing slot is snag-free. Unit is ADA compliant.

Approximate size: 305 mm 12 inches wide by 432 mm 17 inches high by 102 mm 4 inches deep.

][2.1.11 Item A5084 Dryer, Hands Free, Forced Air, Automatic

Surface mounted high speed automatic hand dryer. Unit made of stainless steel with satin finish. Electronic sensor automatically turns dryer on when hands are held under the air outlet opening and cuts off when hands are removed, or after approximately 1-1/2 minutes after dryer turns on. Motor is 5/8 HP. Heating element raises the air temperature to approximately 135 degrees and be vandal proof. Unit meets UL requirements.

Unit requires individual 15 amp circuit.

][2.1.12 Item A5090 Disposal, Sanitary Napkin, SS, Surface Mounted

Surface mounted sanitary napkin receptacle. Unit made of stainless steel with satin finish and all welded construction. Unit has piano hinge attached at the top and an integral finger depression for opening. For use with disposable paper liners, available separately. Unit may be attached to wall or toilet partition.

Approximate size: 178 mm 7 inches wide by 102 mm 4 inches deep by 254 mm 10 inches high.

Grab bar of 32 mm 1-1/4 inch diameter satin finish stainless steel with peened gripping surface for use in toilet stall/room. Snap-on flange covers for concealed mounting are stainless steel and equipped with two screw holes for attachment to wall. Grab bars designed to meet and exceed ADA requirements for structural strength. Grab bars designed to withstand loads of 408 kg 900 pounds when properly installed. Clearance from wall to grab bar is 38 mm 1-1/2 inches to meet ADA and ANSI codes.

][2.1.14 Item A5110 Grab Bar, 32 mm 1-1/4 Inch Diameter, SS, 2 Wall, Shower Use

Grab bar of 32 mm 1-1/4 inch diameter satin finish stainless steel with peened gripping surface. Snap-on flange covers for concealed mounting stainless steel. Bent ends of tubing pass through the flanges and are Heliarc welded for maximum strength. Grab bars designed to meet and exceed ADA requirements for structural strength. Grab bars designed to withstand loads of 408 kg 900 pounds when properly installed. Clearance from wall to grab bar is 38 mm 1-1/2 inches to meet ADA and ANSI codes.

Grab bar of $38 \text{ mm} \ 1\text{-}1/2$ inch diameter stainless steel with exposed surfaces in satin finish. Grab bar is $914 \text{ mm} \ 36$ inches long, with stainless steel closure plate welded on bottom to prevent an open tie-off gap between the bar and the wall. Flanges are completely Heliarc welded to tube end. Bent ends of tubing pass through the flanges and Heliarc welded for maximum strength.

][2.1.16 Item A5115 Grab Bar, Flip-Up, Heavy Duty

Flip up grab bar, 762 mm 30 inches long, made of 32 mm 1-1/4 inch diameter stainless steel with satin finish with peened or knurled grip. Hinge made from heavy duty cast alloy. All exposed surfaces to have satin finish. Grab bars designed to meet and exceed ADA requirements. Locking mechanism holds the grab bar in the vertical position when not in use. Bar operates with less than 2.27 kg 5 pounds of force. Bar designed to withstand more than 113 kg 250 pounds of downward force when properly installed.

][2.1.17 Item A5135 Shelf, Utility W/ Mop/Broom Holders, SS, Surf Mounted

Surface mounted mop/broom holder with shelf made of $1.27~\mathrm{mm}$ 18 gauge stainless steel with all exposed surfaces in satin finish. Unit has shelf 203 mm 8 inches deep with shelf support brackets of satin finish stainless steel welded to mounting base, and a minimum of 3 hooks/3 holders. Mop holders have spring-loaded rubber cams and hold mop or broom handle with a diameter between $16~\mathrm{mm}$ 5/8 inch and $25~\mathrm{mm}$ 1 inch.

Approximate size: 914 mm 36 inches wide by 203 mm 8 inches deep.

][2.1.18 Item A5140 Hook, Garment, Security

Surface mounted safety hook made of stainless steel and secured to wall with tamper resistant mounting screws, exposed mounting. Mounting hardware to be included. Hook designed to snap down when it exceeds load limit.

][2.1.19 Item A5145 Hook, Garment, Double, SS, Surface Mounted

Surface mounted double garment hook made of stainless steel with satin finish. For use on door back or wall. Hook comes with concealed mounting bracket secured to concealed wall plate. Mounting hardware included. Flange size is approximately $51\ mm\ 2$ inches by $51\ mm\ 2$ inches.

Surface mounted garment hook. Unit has three metal hooks with a backplate made of medium oak woodgrain or anodized or polished aluminum finished panel. For mounting directly on wall or to panel.

Approximate maximum weight capacity: 16 kg 35 pounds.

Approximate size: 457 mm 18 inches wide by 102 mm 4 inches high by 19 mm 3/4 inch deep.

][2.1.21 Item A5160 Shelf, 203 mm 8 Inch Depth, SS, Surface Mounted

Surface mounted shelf of 1.27 mm 18 gauge stainless steel with all exposed surfaces in satin finish. Shelf has minimum depth of 203 mm 8 inches. Center bracket and end brackets of stainless steel, welded to shelf. Shelf length [as indicated on drawings.][is][305 mm 12 inches.][406 mm 16 inches.][457 mm 18 inches.][610 mm 24 inches.][762 mm 30 inches.][914 mm 36 inches.][1219 mm 48 inches.][Shelves over 610 mm 24 inches long have center bracket for support.]

][2.1.22 Item A5162 Shelf, Fold Down, Stainless Steel

Fold down utility shelf of 1.27 mm 18 gauge stainless steel. Top surface

of shelf has raised rim. Equipped with heavy-duty internal spring. Edges and corners radiused and burr free. Shelf automatically returns to upright position when not in use. Shelf holds 45 kg 100 pounds. Mount on wall or toilet partition. Mounting hardware included.

][2.1.23 Item A5165 Shelf, 127 mm 5 Inch Depth, SS, Surface Mounted

Surface mounted shelf of 1.27 mm 18 gauge stainless steel with all exposed surfaces in satin finish. Shelf has minimum depth of 127 mm 5 inches. Center bracket and end brackets of stainless steel, welded to shelf. Shelf length [as indicated on drawings.][is][305 mm 12 inches.][406 mm 16 inches.][457 mm 18 inches.][610 mm 24 inches.][762 mm 30 inches.][914 mm 36 inches.][1219 mm 48 inches.][Shelves over 610 mm 24 inches long have center bracket for support.]

][2.1.24 Item A5166 Shelf, 305 mm 12 Inch Depth, SS, Surface Mounted

Surface mounted shelf of 1.27 mm 18 gauge stainless steel with all exposed surfaces in satin finish. Shelf has a minimum depth of 305 mm 12 inches. Shelf is available in various widths. Center bracket and end brackets of stainless steel, welded to shelf. Shelf length [as indicated on drawings.][is][305 mm 12 inches.][406 mm 16 inches.][457 mm 18 inches.][610 mm 24 inches.][762 mm 30 inches.][914 mm 36 inches.][1219 mm 48 inches.][Shelves over 610 mm 24 inches long have center bracket for support.]

Shower Curtain Rod with concealed mounting. Shower curtain rod made of satin finish stainless steel, 25 mm 1 inch diameter, with flanges included, and have white vinyl shower curtain, 1829 mm 72 inches high, and stainless steel curtain hooks. Shower curtain has corrosion resistant grommets, reinforced heading, and treated with antibacterial and flame retardant agents. Shower hooks are stainless steel. Length as indicated on drawings.

][2.1.26 Item A5175 Soap Dish, With Bar, SS, Recessed

Recessed mounted heavy duty stainless steel soap dish with soap lip and bar, of drawn one-piece seamless construction. Exposed surfaces to be satin finish. Soap dish has raised dimples on soap shelf to prevent soap from slipping. Unit includes dry wall clamp and mounting hardware.

Approximate size: 178 mm 7 inches wide by 127 mm 5 inches high by 70 mm 2-3/4 inches deep.

[[2.1.27] Item A5195 Dispenser, Toilet Tissue, SS, 1-Roll, Surface Mounted

Concealed surface mounted single roll toilet tissue dispenser of satin finish stainless steel. Spindle to be free-spinning for non-controlled delivery, chrome-plated high impact resistant plastic and equipped with heavy-duty internal spring. Unit accommodates standard core toilet paper roll up to $140\ mm\ 5-1/2$ inches diameter. Mounting hardware included.

Approximate size: 197 mm 7-3/4 inches wide by 51 mm 2 inches high by 102 mm 4 inches deep.

][2.1.28 Item A5196 Dispenser, Toilet Tissue, Psychiatric

Recessed toilet tissue roll holder. Unit constructed of stainless steel with satin finish. Rim of holder to be beveled to insure tight fit to wall surface. Back mounting plate of galvanized steel to have welded anchor nuts to receive threaded studs. All mounting hardware included.

][2.1.29 Item A5200 Dispenser, Toilet Tissue, SS, 2-Roll, Surface Mounted

Concealed surface mounted, double roll, toilet tissue dispenser of stainless steel. Unit holds and dispenses two standard 133~mm~5-1/4 inch diameter rolls of toilet tissue. Spindles are free-spinning for non-controlled delivery, chrome-plated plastic equipped with heavy-duty internal springs.

Approximate size: 178 mm 7 inches diameter by 102 mm 4 inches deep.

][2.1.30 Item A5202 Dispenser, Toilet Paper w/Utility Shelf, SS, 2-Roll

Concealed surface mounted, double roll, toilet tissue dispenser and utility shelf of satin finish stainless steel. Mounting brackets to be welded to shelf. Unit holds two standard 133~mm~5-1/4 inch diameter rolls of toilet tissue. Spindles are free-spinning for non-controlled delivery, high impact-resistant plastic equipped with internal springs. Edges of shelf is 13~mm~1/2 inch, with hemmed lip on front edge for safety.

Approximate size of shelf: 457 mm 18 inches wide by 127 mm 5 inches deep.

][2.1.31 Item A5205 Bar, Towel, 25 mm (1 inch) Diameter, SS, Surface Mounted

Surface mounted satin finish stainless steel towel bar of 25~mm 1 inch diameter. Support posts fabricated of heavy solid cast brass with satin finish. Stainless steel set screw keeps bar from rotating in posts. Clearance between towel bar and wall is 38~mm 1-1/2 inches.

Concealed surface mounted 25~mm 1 inch diameter satin finish stainless steel towel bar with peened gripping surface. Flanges for concealed mounting made of stainless steel. Bent ends of tubing pass through flanges and be Heliarc welded to tubing. Mounting kits and concealed anchoring devices are available from the manufacturers for different types of installations. Clearance between towel bar and wall is 38~mm 1-1/2 inches. Towel bar installed to meet or exceed ADA guidelines.

][2.1.33 Item L1200 Cabinet, Specimen, Pass-Through, CRS

Pass-through specimen cabinet of all welded stainless steel construction with burr-free edges and all exposed surfaces in satin finish. Flanges of one-piece seamless stainless steel in satin finish. Each door is spring-loaded and secured to cabinet with full-length stainless steel piano hinge. Doors equipped with pull knob, international decal identifying usage, and interlocking mechanism which prevents both doors from being open simultaneously. Unit has spill tray of stainless steel with welded seams.

Approximate size: 330 mm 13 inches wide by 305 mm 12 inches high by 152

mm 6 inches deep.

]PART 3 EXECUTION

3.1 INSTALLATION

Do not install items that show visual evidence of biological growth. Provide the same finish for the surfaces of fastening devices exposed after installation as the attached accessory. Provide oval exposed screw heads. Install accessories at the location and height indicated. Protect exposed surfaces of accessories with strippable plastic or by other means until the installation is accepted. After acceptance of accessories, remove and dispose of strippable plastic protection. Coordinate accessory manufacturer's mounting details with other trades as their work progresses. [Use sealants for brackets, plates, anchoring devices and similar items in showers (a silicone sealantsealant specified in Section 07 92 00 JOINT SEALANTS) as they are set to provide a watertight installation.] After installation, thoroughly clean exposed surfaces and restore damaged work to its original condition or replace with new work.

3.1.1 Recessed Accessories

Fasten accessories with wood screws to studs, blocking or rough frame in wood construction. Set anchors in mortar in masonry construction. Fasten to metal studs or framing with sheet metal screws in metal construction.

3.1.2 Surface Mounted Accessories

NOTE: Shelf support brackets and through-bolting of accessories should be required and indicated on the project drawings when rough usage of accessories is anticipated. Attachment by through-bolting should be indicated for shelf brackets and mirrors.

Mount on concealed backplates, unless specified otherwise. Conceal fasteners on accessories without backplates. Install accessories with corrosion-resistant fasteners as required by the construction. Install backplates in the same manner, or provide with lugs or anchors set in mortar, as required by the construction. Fasten accessories mounted on gypsum board and plaster walls without solid backing into the metal or wood studs, or to backplates secured to metal studs.

3.2 CLEANING

Clean material in accordance with manufacturer's recommendations. Do not use alkaline or abrasive agents. Take precautions to avoid scratching or marring exposed surfaces.

-- End of Section --