

- NOTES:**
- TYPE 1 JOINTS SHALL BE PLACED "W" CENTERS.
 - TYPE 2 JOINTS SHALL BE PLACED AT 250' CENTERS AND WHERE WALK ABUTS EXISTING CONCRETE.
 - ALL CONCRETE SHALL BE 4000-PSI.
 4. PROVIDE 1/2" MIN. MIN. PROTECTOR DENSITY.
 5. PROVIDE BROOM FINISH FOR ALL SURFACES WITH HAND TROWELED EDGES AND JOINTS.
 6. PROVIDE CURE AND SEAL COMPOUND TO CONCRETE SURFACE.

UNITED STATES DISTRICT COURT
DISTRICT OF KANSAS

UNITED STATES OF AMERICA,

Plaintiff,

v.

LNL ASSOCIATES/ARCHITECTS, P.A., *et al.*,

Defendants.

)
)
)
)
) Civil Action No.: 02-2167-JWL
)
)

) APPENDIX B TO CONSENT
) DECREE
)
)

ACCESSIBILITY RETROFITS TO
ALL GROUND FLOOR UNITS
AT INDIAN MEADOWS

CLARIFICATIONS REQUESTED AND ASSUMPTIONS TO BE VERIFIED

BOTH PROJECTS

1. 3'-0"x 6'8" doors were used as new accessible doors to comply with 32" clear width. In some cases, 2'-10" doors theoretically provide a 32" clear opening, but the installation tolerance is 1/8", and not always achievable.
2. Doors were specified as pre-hung flush panel, typical to apartment projects of this type.
3. Hardware was described as lever handled to "match existing", since no hardware schedule was shown on the project documents.
4. While 36" bathroom access clearance was requested in Ridgeview, the actual clearance is 42 3/4" in order to allow for a 3'-0" door and frame for the bathroom.
5. Where closet walls were relocated, new 3'-0" door were added for closets, for ease of use and ease of construction.
6. ~~Some floor covering may need to be replaced, but the documents used did not~~ specify the existing floor covering. Therefore it is to match existing to the satisfaction of the owner.
7. Cut sheets are attached to the construction documents as recommendations for new material.

RIDGEVIEW

1. Bathroom 1 in the two-bedroom unit requirements called for a shorter toilet to provide 30" clear space in front of it. However, a shorter toilet is not available which would provide the clearance, and therefore, the documents show the bathroom wall relocated to satisfy the requirement.

INDIAN MEADOWS

1. No thermostats need to be moved.
2. Both bathrooms in the three bedroom unit are to have their toilets relocated after verification on site.

INDIAN MEADOWS APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

ONE BEDROOM UNIT

Immediate Work

1. Description

- a. Widen access to bathroom and bedroom.
- b. Relocate one outlet in bedroom and one in living room to make accessible.

2. Demolition

- a. Pull back floor covering in bathroom and hallway to preserve for re-use.
- b. Remove door to bathroom and remove from site.
- c. Remove door to bedroom and retain for reuse. Door will be re-installed in existing frame with new hinges.
- d. Enlarge bathroom door opening to prepare for new 3'0"x6'8" door, as shown on drawings. Remove ceiling gypsum board where new opening is shown.
- e. Make new openings for new locations of electrical outlets.

3. New Construction

- a. Supply and install new pre-hung 3'0"x6'8" wood door and wood frame in enlarged bathroom opening. Door to have clear opening of 34".
- b. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
- c. Fill in wall and ceiling where wall was removed with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint.
- d. Install new "swing-clear" hinges on bedroom door and frame and re-hang bedroom door.

4. New Accessories

- a. No new accessories required.

5. New Finishes

- a. Paint walls where disturbed by work to match existing wall colors and paint.
- b. Re-lay and patch carpet in hallway and re-lay bathroom floor covering. Replace bathroom floor covering at owner's discretion.

6. New Electrical Work

- a. Raise one duplex outlet and box in bedroom and one in living room to 15" above finished floor level. Replace wiring with new at outlet to form single piece back to panel or to next appliance. Do not splice wire to extend outlet box. Patch existing hole, tape joints, sand smooth and paint to match existing wall.

INDIAN MEADOWS APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

TWO BEDROOM UNIT

Immediate Work

1. Description

- a. Widen access to bathroom and both bedrooms.
- b. Relocate one outlet in each bedroom and one in living room to make accessible.

2. Demolition

- a. Pull back floor covering in bathroom, bedroom 2 and hallway to preserve for re-use.
- b. Remove door to bathroom and bedroom 2 and remove from site.
- c. Remove door to bedroom 1 and retain for reuse. Door will be re-installed in existing frame with new hinges.
- d. Enlarge bathroom and bedroom 2 openings to prepare for new 3'0"x6'8" doors as shown on drawings. Remove ceiling gypsum board where new openings are shown.
- e. Make new openings for new locations of electrical outlets.

3. New Construction

- a. Supply and install new pre-hung 3'0"x6'8" wood doors and wood frames in enlarged bathroom and bedroom 2 openings. Doors to have clear opening of 34".
- b. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
- c. Fill in wall and ceiling where wall was removed with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint.
- d. Install new "swing-clear" hinges on bedroom 1 door and frame and re-hang bedroom 1 door.

4. New Accessories

- a. No new accessories required.

5. New Finishes

- a. Paint walls where disturbed by work to match existing wall colors and paint.
- b. Re-lay and patch carpet in hallway and bedroom 2 and re-lay bathroom floor covering. Replace bathroom floor covering at owner's discretion.

INDIAN MEADOWS APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

6. New Electrical Work

- a. Raise one duplex outlet and box in each bedroom and one in living room to 15" above finished floor level. Replace wiring with new at outlet to form single piece back to panel or to next appliance. Do not splice wire to extend outlet box. Patch existing hole, tape joints, sand smooth and paint to match existing wall.

THREE BEDROOM UNIT

Immediate Work

1. Description

- a. ~~Widen access to one bathroom and all bedrooms.~~
- b. Relocate one outlet in each bedroom and one in living room to make accessible.

2. Demolition

- a. Pull back floor covering in bathroom, bedrooms 2 and 3 and hallway, and preserve for re-use.
- b. Remove door to bathroom, bedroom 2, bedroom 3, and remove from site.
- c. Remove door to bedroom 1, bedroom 3 closet and linen closet and retain for re-use. Doors will be re-installed in existing frame with new hinges.
- d. Remove demising wall between bedroom 2 and 3 to form wider hallway.
- e. Enlarge bathroom and bedrooms 2 and 3 openings to prepare for new 3'0"x6'8" doors as shown on drawings. Move bedroom 3 closet opening to clear new bedroom door swing.
- f. Remove ceiling gypsum board where new openings are shown.
- g. Make new openings for new electrical outlets locations.

3. New Construction

- a. Build new demising wall and hallway wall in new location as shown on drawings with wood studs and ½" gypsum board. Tape joints, sand smooth ready for paint.
- b. Supply and install new pre-hung 3'0"x6'8" wood doors and wood frames in enlarged bathroom and bedroom openings. Doors to have clear openings of 34".

INDIAN MEADOWS APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

- c. Re-install bedroom 1 door into existing opening with new "swing-clear" hinges. Re-install bedroom 3 closet door and frame in re-positioned opening. Re-install linen closet door in existing frame in shifted opening.
 - d. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
 - e. Fill in wall and ceiling where wall was removed with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint.
4. New Accessories
- a. No new accessories required.
5. New Finishes
- a. ~~Paint walls where disturbed by work to match existing wall colors and paint.~~
 - b. Re-lay and patch carpet in bedroom and hallway and re-lay bathroom floor covering. Replace bathroom floor covering at owner's discretion.
6. New Electrical Work
- a. Raise one duplex outlet and box in each bedroom and one in living room to 15" above finished floor level. Replace wiring with new at outlet to form single piece back to panel or to next appliance. Do not splice wire to extend outlet box. Patch existing hole, tape joints, sand smooth and paint to match existing wall.

INDIAN MEADOWS APARTMENTS

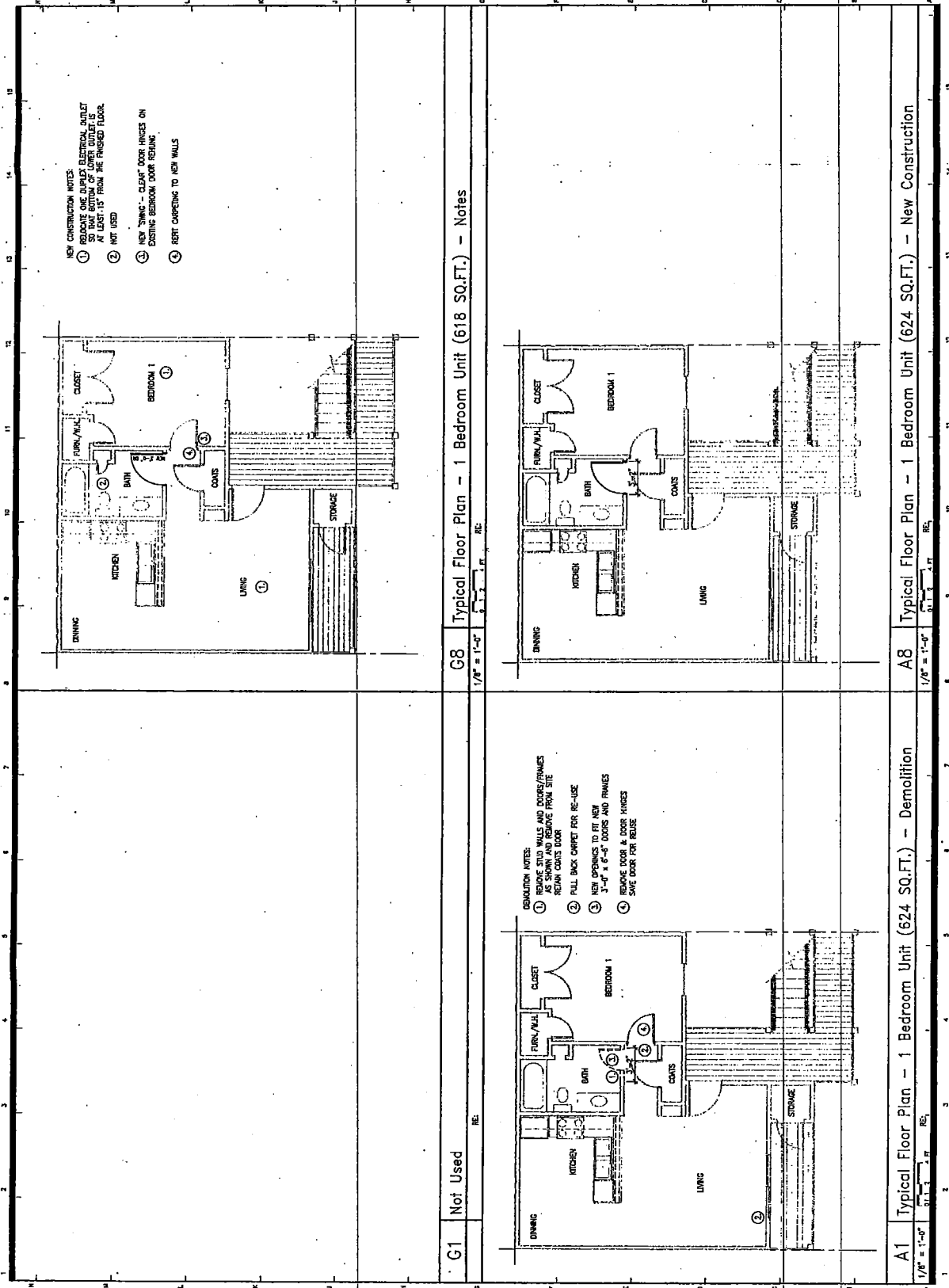
OLATHE KANSAS

Abstract

Google it with WebCrawler	GB VICTORIAN 2008	Project No. 001118
	Proj. Available XXX	Checked By
	Drawn By	Description
	Revision	

ONE BEDROOM TYPICAL UNIT FLOOR PLANS

1aA100



B N I M

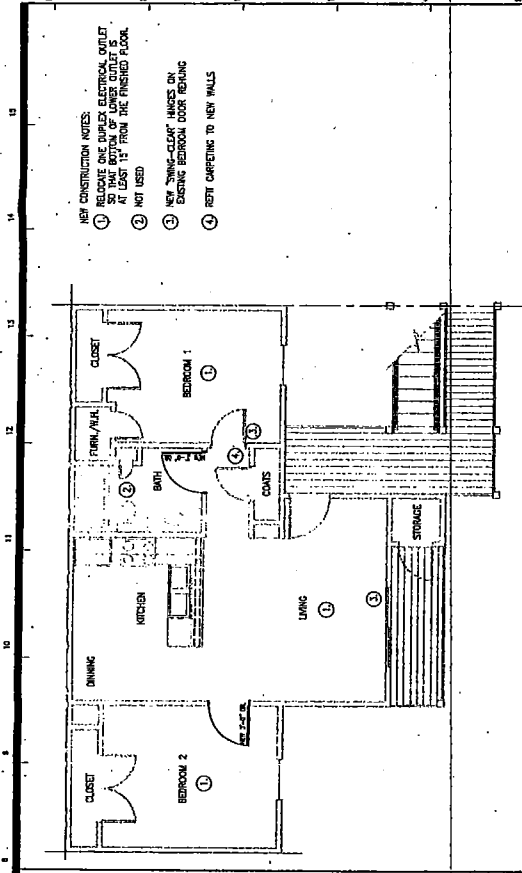
**INDIAN MEADOWS
APARTMENTS**

OLATHE, KANSAS

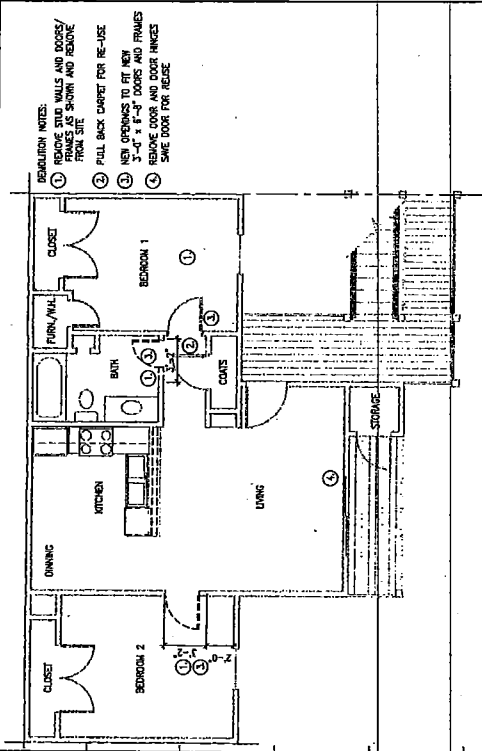
ARCHITECT
B.N.I.M. INC.
1000 WEST 10TH AVENUE, SUITE 200
OLATHE, KANSAS 66061
TEL: 781-763-1500 FAX: 781-763-1507

REVISION	DATE	BY	DESCRIPTION
1	08/01/00	BNM	ISSUED FOR PERMIT
2	08/01/00	BNM	ISSUED FOR CONSTRUCTION
3	08/01/00	BNM	ISSUED FOR CONSTRUCTION
4	08/01/00	BNM	ISSUED FOR CONSTRUCTION
5	08/01/00	BNM	ISSUED FOR CONSTRUCTION
6	08/01/00	BNM	ISSUED FOR CONSTRUCTION
7	08/01/00	BNM	ISSUED FOR CONSTRUCTION
8	08/01/00	BNM	ISSUED FOR CONSTRUCTION
9	08/01/00	BNM	ISSUED FOR CONSTRUCTION
10	08/01/00	BNM	ISSUED FOR CONSTRUCTION

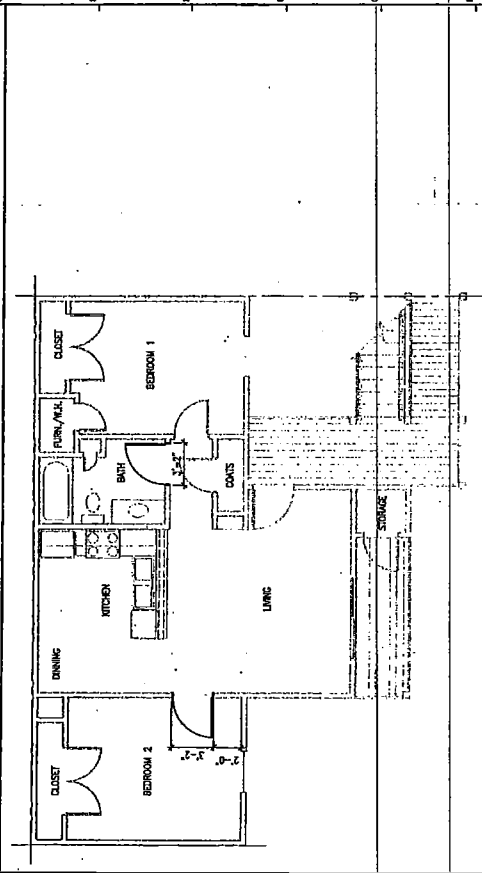
**TWO BEDROOM
TYPICAL UNIT
FLOOR PLANS
2aA100**



G8 Typical Floor Plan - 2 Bedroom Unit (800 SQ.FT.) - Notes



A1 Typical Floor Plan - 2 Bedroom Unit (800 SQ.FT.) - Demolition



A8 Typical Floor Plan - 2 Bedroom Unit (800 SQ.FT.) - New Construction

BNIM

100 West 10th Street, Suite 200, Omaha, NE 68102 (402) 442-1111

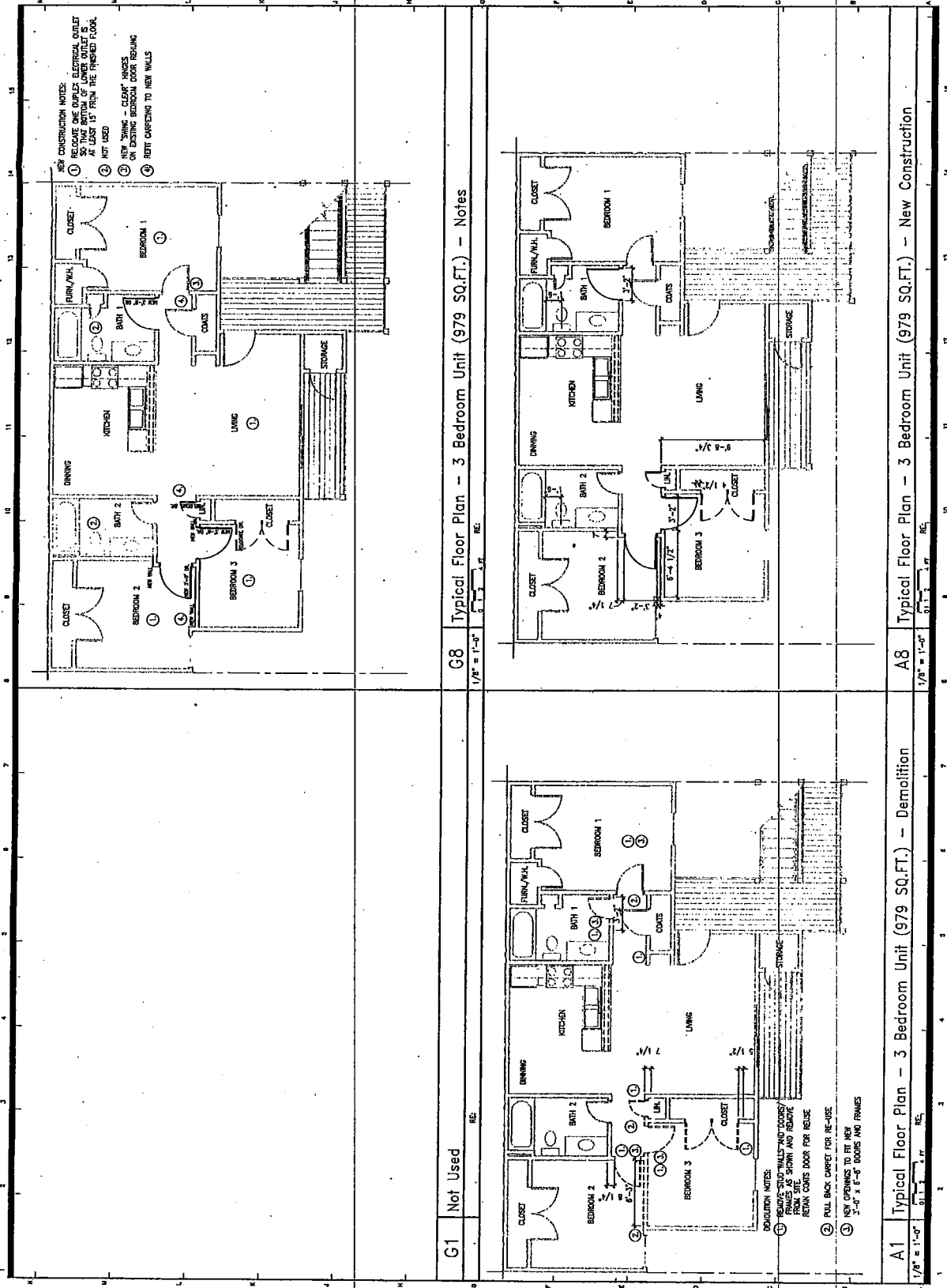
**INDIAN MEADOWS
APARTMENTS**

OLATHE, KANSAS

ARCHITECT
BRIAN N. MURPHY
BRIAN N. MURPHY ARCHITECTS
100 WEST 10TH STREET, SUITE 200
OMAHA, NE 68102
(402) 442-1111

Project No.	88104
Architect	Brian N. Murphy, AIA
Owner	Indian Meadows Apartments
Contract No.	
Revision	
Drawn By	
Checked By	
Construction	

**THREE BEDROOM
TYPICAL UNIT
FLOOR PLANS
3aA100**

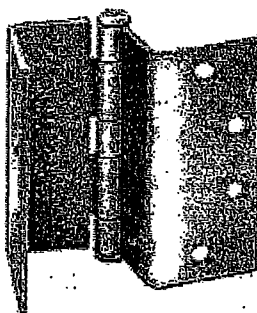



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[Hinge Information](#)
[Hinge History](#)
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store categories

DOOR HINGES

[Plain Bearing Butt Hinges](#)
[Ball Bearing Butt Hinges](#)
[Spring Hinges - Double Acting Hinges](#)
[Pivot Hinges - Pivot Sets](#)
[Screen Door Hinges](#)
[Wide Throw Hinges - Swing Clear Hinges](#)
[Special Purpose Hinges](#)
[Invisible Hinges - Soss Hinge](#)
[Door Hardware](#)



Description:

- Hinges are reversible for left or right swinging.
- Use swing clear hinges wherever doors are required to be completely clear of the openings (when opened).
- Improves clearance for wheelchairs, carts, etc.
- For medium weight doors of low frequency.
- Steel base material, full mortise hinge.
- For a 1-3/8" door use the 3-1/2" hinge and for a 4" door use the 4" hinge.
- Hinges come with wood screws and machine screws.

CABINET DOOR HINGES

[Semi-Concealed Cabinet Hinges](#)
[Surface Mounted Cabinet Hinges](#)
[Overlay Hinges - Inset Hinges](#)
[Demountable Hinges](#)
[European Hinges - Blum Hinges](#)
[Pivot Hinges for Cabinets](#)
[Pivot Door Slides - Flipper Door Slides](#)
[Entertainment Center Cabinet Hinges](#)
[Small Ball Tip Cabinet Hinge](#)
[Tray Hinges - Cabinet Catches](#)

Finishes:

- 633 (US4) satin brass plated
- 632 (US3) bright brass plated
- 600 (USP) primed for painting
- 652 (US26D) satin chrome plated
- 613 (US10B) oil rubbed bronze plated

[Click Here for Installation Diagram](#)

(This document will open in a new window)

FURNITURE HINGES

[Table Hinges - Shelf Hinges](#)
[Butler Tray Table Hinge](#)
[Finial Tipped Hinges](#)
[Desk Hinges - Sewing Machine Hinges](#)
[Concealed Hinges - Hidden Hinges](#)
[Special Purpose Furniture Hinges](#)
[Lift-off Hinges - Loose Joint Hinges](#)
[Glass Door Hinges](#)

GATE HINGES

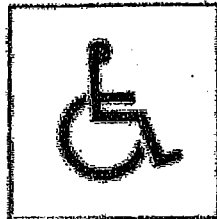
[Pivot Hinges](#)
[Spring Hinges](#)
[Strap Hinges](#)
[Tee Hinges](#)
[Bolt Hook & Strap Hinges](#)
[Swimming Pool Gate Hinges](#)
[Gate Latches & Handles](#)
[Other Gate Hardware](#)

OTHER HINGES

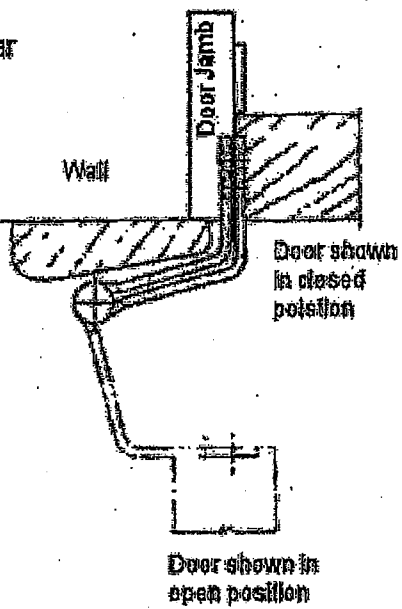
[Miniature Hinges - Craft Hinges](#)
[Small Butt Hinges - Small Brass Hinges](#)
[Piano Hinges - Continuous Hinges](#)
[Soss Hinges - Invisible Hinges](#)
[Strap Hinge - Dummy Strap Hinges](#)
[Non Mortise Hinges - Bi-Fold Door Hinges](#)
[Tee Hinges](#)
[Chest Hinges - Box Hinges](#)

Finish	Origin	Size	SKU	Unit	Price	Qty	
600 (USP)	Domestic	3 1/2	219338	Each	\$19.97	1	add to cart
632 (US3)	Domestic	3 1/2	219342	Each	\$29.97	1	add to cart
633 (US4)	Domestic	3 1/2	219343	Each	\$21.97	1	add to cart
652 (US26D)	Domestic	3-1/2	234080	Each	\$20.97	1	add to cart
613 (US10B)	Domestic	3-1/2	234084	Each	\$28.97	1	add to cart
600 (USP)	Domestic	4	219339	Each	\$20.97	1	add to cart
632 (US3)	Domestic	4	219341	Each	\$26.97	1	add to cart
633 (US4)	Domestic	4	219345	Each	\$22.97	1	add to cart
652 (US26D)	Domestic	4	234082	Each	\$19.97	1	add to cart
613 (US10B)	Domestic	4	234086	Each	\$29.97	1	add to cart

HardwareSource Install
Diagram for Swing Clear
Hinges



This hinge lets a door
swing clear of the door
opening to allow for
maximum access.



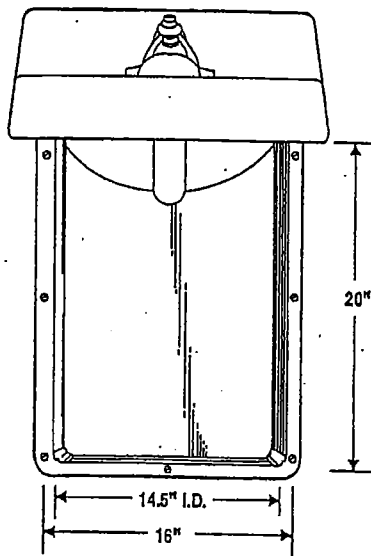
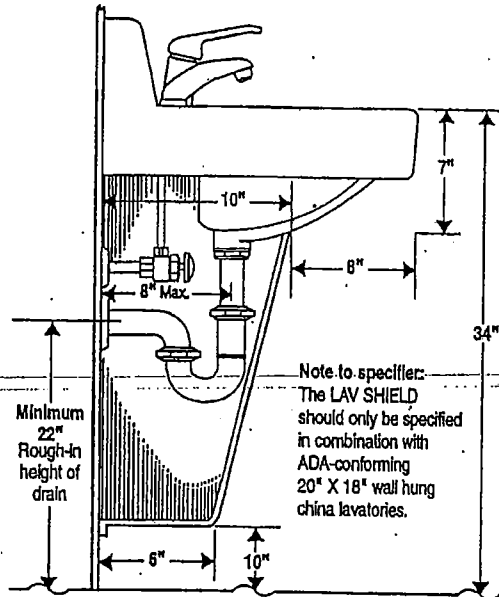
SINK PIPE PROTECTION

1 of 1



Submittal Sheet

ADA-compliant undersink protection



U.S. and Canadian patents:
D373,412, D372,077, D384,732,
D393,700, D390,843, 79,064, 79,063



TRUEBRO, Inc., 7 Main Street, Ellington, CT 06029
(860) 875-2868 • (800) 340-5969 • FAX: (860) 872-0300
e-mail: Info@truebro.com • Internet: <http://www.truebro.com>



Lav Shield Classified by
Underwriters Laboratories Inc.*
in accordance with
ADA article 4.19.4 22FF



General Description:

LAV SHIELD® rigid enclosure is dimensionally engineered to satisfy ADA requirements, design aesthetics and mechanical cooperation. LAV SHIELD conceals electronic faucet connections, mixing valves, trap primers and instantaneous hot water heaters*, while allowing wheelchair accessibility under lavatories and eliminating vandalism. Available in the standard model for field fit applications or may be ordered as a factory precut which closely follows the underside contours of the lavatory specified.

*Lavatory "rough in" should be considered to allow mounting room for water heater behind enclosure. Contact TRUEBRO for specifications.

Material	Rigid high-impact, stain-resistant, rigid PVC
Nominal Wall	.093"
Finish	Fine halrcell
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Fasteners	Seven (7) wall anchors provided
Color	China white
Compatibility	Fits all ADA-conforming 20"x18" wall hung lavatories
Paintability	Apply acrylic enamel or Latex
UL Listing	In accordance with ADA Article 4.19.4
Flammability	UL-94 V-0, 5VA ASTM D-635-91 4 (ATB) 2.1 (AEB)
Bacterial/Fungal Resistance	ASTM G21 and G22/Result 0

☐ LAV SHIELD Model #2018 — Standard (to be Field-Fit)

Lav Shield factory pre-cut available:

- | | |
|---|---|
| <input type="checkbox"/> Model #2018-AS-C — Am.Std. Comrade | <input type="checkbox"/> Model #2018-EL-M — Eljer Mayburne |
| <input type="checkbox"/> Model #2018-AS-D — Am.Std. Declyn | <input type="checkbox"/> Model #2018-EL-S — Eljer Signature |
| <input type="checkbox"/> Model #2018-AS-L — Am.Std. Lucerne | <input type="checkbox"/> Model #2018-EL-U — Eljer Bucknell |
| <input type="checkbox"/> Model #2018-AS-M — Am.Std. Muro | <input type="checkbox"/> Model #2018-GR-P — Gerber Plymouth |
| <input type="checkbox"/> Model #2018-AS-R — Am.Std. Roxalyn | <input type="checkbox"/> Model #2018-KO-C — Kohler Chesapeake |
| <input type="checkbox"/> Model #2018-BR-W — Briggs Whitman | <input type="checkbox"/> Model #2018-KO-G — Kohler Greenwich |
| <input type="checkbox"/> Model #2018-CR-H — Crane Harwich | <input type="checkbox"/> Model #2018-KO-H — Kohler Hudson |
| <input type="checkbox"/> Model #2018-CR-N — Crane Norwich | <input type="checkbox"/> Model #2018-KO-K — Kohler Kingston |
| <input type="checkbox"/> Model #2018-CR-W — Crane Westmont | <input type="checkbox"/> Model #2018-MA-H — Mansfield 2018 HB |
| <input type="checkbox"/> Model #2018-CR-Y — Crane Yorkshire | <input type="checkbox"/> Model #2018-MA-NS — Mansfield 2018 HB-NS |
| <input type="checkbox"/> Model #2018-EL-B — Eljer Blair | <input type="checkbox"/> Model #2018-TO-L — Toto LT307 |
| <input type="checkbox"/> Model #2018-EL-D — Eljer Delwyn | |

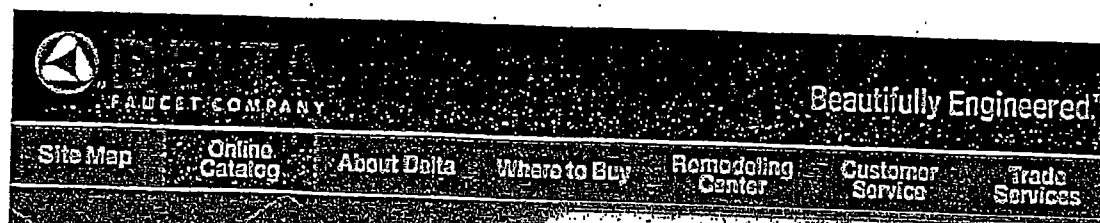
☐ Tamper-resistant Screws (Torx Head Screws)

☐ Special Pre-cut Request: _____

Job/Location _____

Designer _____

TRUEBRO reserves the right to make product and material changes at any time without notice.
3/03



Online Catalog

Your Results:

Here are the Delta® faucets that best meet your personal preferences.

The manufacturer's list price (U.S. dollars) is shown for comparison only. The actual retail price may be lower than the price shown.

Online Catalog

Build Your Own Faucet

Matching Accessories

Handle Options

Featured Products

New Products

Visit Build Your Own Faucet to put together just the right combination of faucet style, handle and finish options to complete your kitchen, bathroom or bar.

Model Number:

540-WFMPD
\$ 138.30

Price:



Chrome, single handle, Innovations® lavatory faucet with a chrome lever handle and a metal pop-up. Three hole installation required.

● Maintenance & Installation Sheets

● E-Mail Sheet to a Friend



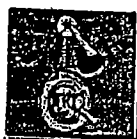
● Where to Buy

● Return to Search Results

● Build Your Own Faucet

Coordinating Faucets

At Delta, each faucet has its own match. The following are faucets that best complement the one you've selected above.



NEW FAUCET
1 1 1

CLEANING AND CARE

Care should be given to the cleaning of this product. Although the finish is extremely durable, it can be damaged by harsh abrasives or polish. To clean, simply wipe gently with a damp cloth and blot dry with a soft towel.

WARNING:

Scrubbing Bubbles® Bathroom Cleaner and Lysol® Bath Tub and Tile Cleaner are not intended for use on metal faucets and levers. Use of these cleaners can result in metal corrosion. To clean metal faucets and levers, use a mild detergent and a soft cloth.

LIFETIME FAUCET AND FINISH LIMITED WARRANTY

Delta Faucet Company warrants that the original purchaser of a Delta faucet and finish will receive a replacement faucet and finish at no charge if the faucet and finish are found to be defective within the lifetime of the product. This warranty is limited to the original purchaser and is not transferable. The warranty is void if the faucet and finish are found to be defective due to misuse, abuse, or neglect. The warranty is also void if the faucet and finish are found to be defective due to the use of any other product or material not recommended by Delta Faucet Company.

Delta Faucet Company
11111 Delta Drive
Evansville, IN 47610

LIMPIEZA Y CUIDADO DE SU LLAVE

Tratado cuidadoso al limpiar este producto. Aunque el acabado es extremadamente duradero, puede ser dañado por abrasivos o pulido. Para limpiar, simplemente frotar con un trapo húmedo y luego secarlo con una toalla suave.

GARANTÍA LIMITADA DE POR VIDA DE LA LLAVE Y SU ACABADO

Delta Faucet Company garantiza que el comprador original de una llave Delta y su acabado recibirá una llave y su acabado de reemplazo sin costo alguno si se encuentran defectuosos dentro de la vida útil del producto. Esta garantía está limitada al comprador original y no es transferible. La garantía es nula si el producto se daña debido al uso indebido, abuso o negligencia. La garantía también es nula si el producto se daña debido al uso de cualquier otro producto o material no recomendado por Delta Faucet Company.

Delta Faucet Company
11111 Delta Drive
Evansville, IN 47610

INSTRUCTIONS DE NETTOYAGE

Il faut le nettoyer avec soin. Même si son fini est extrêmement durable, il peut être endommagé par des produits abrasifs ou des produits de polissage. Pour nettoyer, simplement frotter avec un chiffon humide et essuyer avec un chiffon doux.

GARANTIE À VIE LIMITÉE DES ROBINETS ET DE LEURS FINIS

Delta Faucet Company garantit que l'acheteur original d'un robinet Delta et de ses finitions recevra un robinet et ses finitions de remplacement sans frais si le robinet et ses finitions sont trouvés défectueux pendant la durée de vie du produit. Cette garantie est limitée à l'acheteur original et n'est pas transférable. La garantie est nulle si le produit est endommagé en raison d'un usage abusif, d'une négligence ou d'un usage de produits ou de matériaux non recommandés par Delta Faucet Company.

Delta Faucet Company
11111 Delta Drive
Evansville, IN 47610

ADVERTENCIA

No se debe usar Scrubbing Bubbles® Bathroom Cleaner o Lysol® Bath Tub and Tile Cleaner en los grifos y manijas de metal. El uso de estos productos puede causar corrosión y dañar el acabado. Para limpiar los grifos y manijas de metal, use un detergente suave y una toalla suave.

Delta Faucet Company garantiza que el comprador original de una llave Delta y su acabado recibirá una llave y su acabado de reemplazo sin costo alguno si se encuentran defectuosos dentro de la vida útil del producto. Esta garantía está limitada al comprador original y no es transferible. La garantía es nula si el producto se daña debido al uso indebido, abuso o negligencia. La garantía también es nula si el producto se daña debido al uso de cualquier otro producto o material no recomendado por Delta Faucet Company.

© 2000 Masco Corporation de Indiana

AVERTISSEMENT:

N'utilisez pas Scrubbing Bubbles® Bathroom Cleaner ou Lysol® Bath Tub and Tile Cleaner sur les robinets et les poignées en métal. L'utilisation de ces produits peut entraîner la corrosion et endommager le fini. Pour nettoyer les robinets et les poignées en métal, utilisez un détergent doux et un chiffon doux.

© 2000 Masco Corporation de Indiana

28079 Rev.B



Models/Modelos/Modèles
540, 541, 542, 544
Series/Series/Seria

Write purchased model number here.
Escriba el número del modelo comprado.
Inscribir el número de modelo aquí.



SINGLE HANDLE LAVATORY
CENTERSET FAUCETS
LLAVES MONOCONTROL
DE MONTURA DE CENTRO
PARA LAVAMANOS
ROBINETS À ENTRAXE
COURT À UNE POIGNÉE

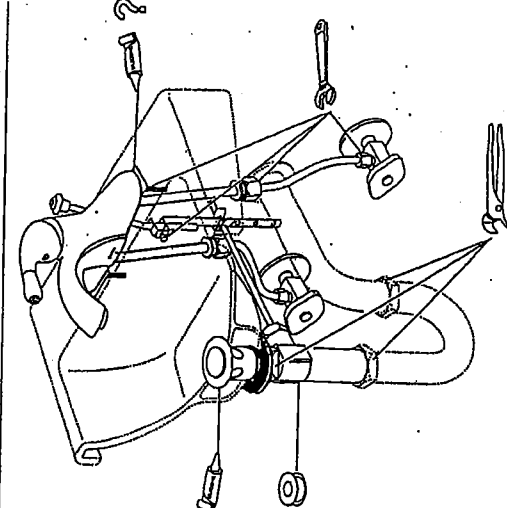
You may need/Usted puede necesitar/
Articles dont vous pouvez avoir besoin:



For easy installation of your Delta faucet you will need:
• To READ ALL the instructions completely before beginning.
• To READ ALL warnings, care, and maintenance information.
• To purchase the correct water supply hook-up.

Para instalación fácil de su llave Delta usted necesitará:
• LEER TODAS las instrucciones completamente antes de empezar.
• LEER TODOS los avisos, cuidados, e información de mantenimiento.
• Comprar las conexiones correctas para el suministro de agua.

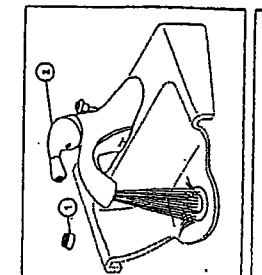
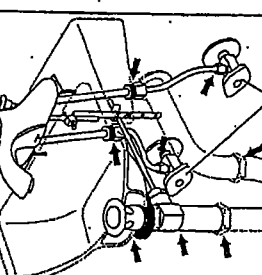
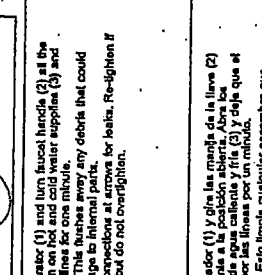
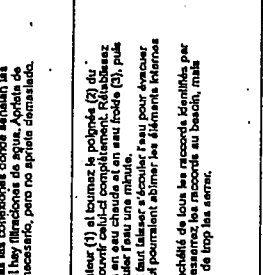
Pour installer votre robinet Delta facilement, vous devez:
• LIRE TOUTES les instructions avant de débiter.
• LIRE TOUS les avertissements ainsi que toutes les instructions de nettoyage et d'entretien.
• Acheter le bon nécessaire de raccordement.



US Pat. 4,043,398, 3,798,095, 4,562,960, 4,583,430, 4,088,347, 4,214,765, 4,765,365, 4,894,332

7/7/00 Rev.B

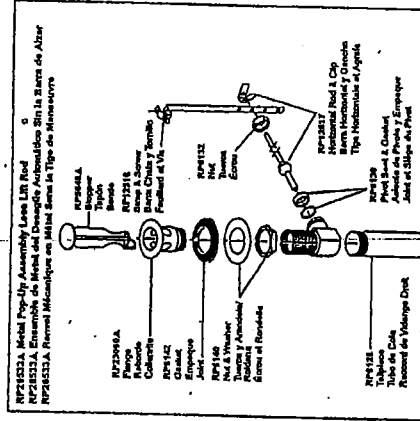
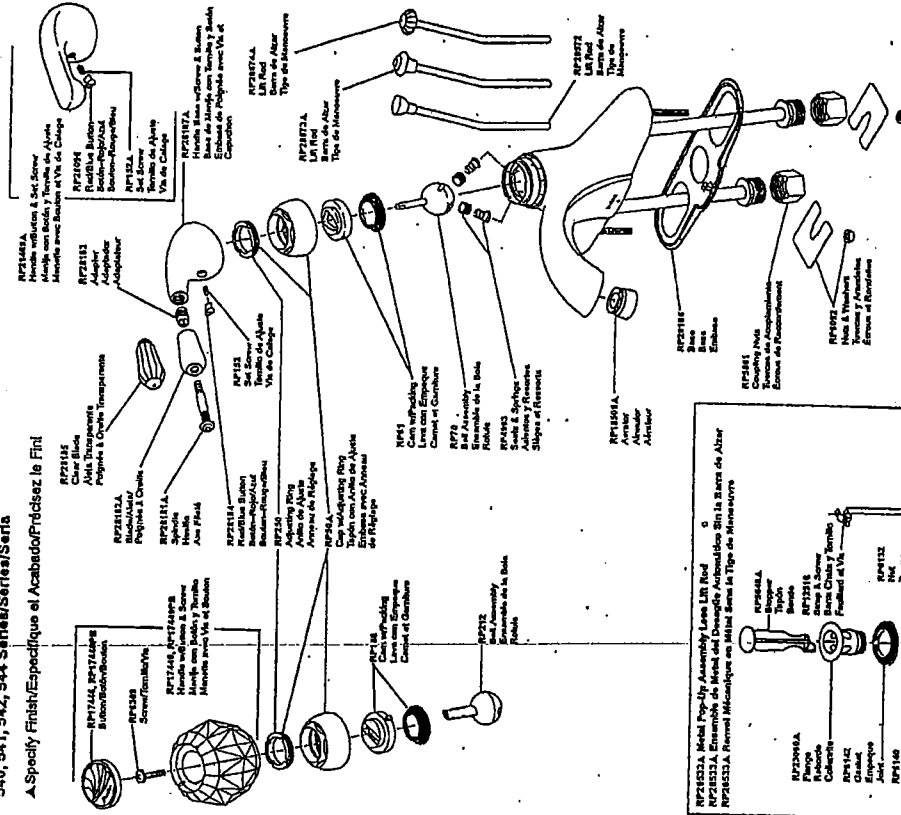
NEW FAUCET
2 of 4

<p>1</p> 	<p>2</p> 	<p>3</p> 	<p>4</p> 
<p>A Position Front (1) and Gasket (2) on Sink. Secure with screw (3). Option: If sink is uneven, use silicone under the gasket. B Make connections to water lines. Use 1/2" IPS faucet connections (1), or 3/8" IPS for 3/8" O.D. ball-valve connections. Do not overtighten. Note: Be careful when bending the copper tubing. Kinked tubing will void the warranty.</p>	<p>A Remove stopper (1) and flange (2). B Screw nut (1) all the way down. Push washer (2) and gasket (3) down. C Remove tailpiece (1) from body (2), add tailpiece (3), replace ballcock.</p>	<p>A Apply silicone to underside of flange (1). Insert body (2) into sink. Screw flange (1) into body (2). B Pivot (1) must face faucet. Pull assembly (2) down firmly and hold in place. DO NOT TWIST. C Tighten nut/washer/gasket (1), clean off excess silicone (2). DO NOT TWIST.</p>	<p>A Remove stopper (1) and flange (2). B Screw nut (1) all the way down. Push washer (2) and gasket (3) down. C Remove tailpiece (1) from body (2), add tailpiece (3), replace ballcock.</p>
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NEW FAUCET
3 1/2 A

540, 541, 542, 544 Series/Series/Serie

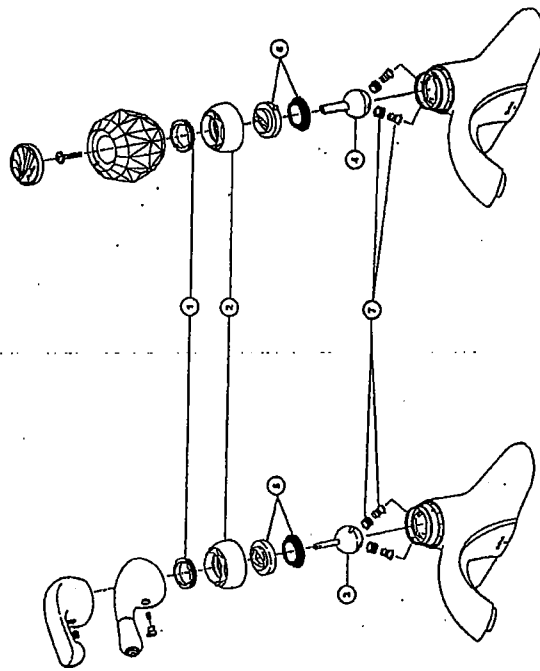
A Specify Finish/Especifique el Acabado/Spécifiez le Fini



26078 Rev.5

NEW FAUGET

4 of 4



Maintenance

Important: Never tighten cap assembly (2) too tight. If water supply and partially unknown parts, then remove cap assembly HAND TIGHT, then tighten adjusting ring.

Mantenimiento

Important: Nunca apriete el ensamble de la tapa (2) demasiado fuerte. Si el agua de suministro y partes desconocidas, quite la tapa de la mano y luego apriete el anillo de ajuste.

Entretien

Important: Ne serrez jamais l'ensemble de la capuche (2). Si l'eau de l'alimentation et des pièces inconnues, retirez le couvercle à la main, puis serrez le couvercle à la main, puis serrez le couvercle à la main.

26078 Rev.5

SEARCH
PRODUCT

by category

OR

by style

OR

by collection

OR

Go

American Standard

Dream and Create

Plan and Design

Buy

Customer Service

Pressroom

Trade

Product Details

Cadet Round Front Toilet

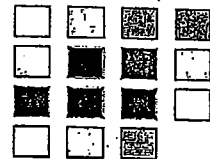
- » Vitreous china
- » 1.6 GPF
- » Round front siphon action jetted bowl
- » Fully glazed 2" trapway
- » Large 11" x 9" water surface area
- » Close coupled tank with raised lip detail on tank cover
- » Color matched trip lever
- » Speed connect tank/bowl coupling system
- » Sanitary bar on bowl
- » Two color matched bolt caps
- » 100% factory flush tested

[Add to My Wishlist](#)

[Click here to view toilet seats.](#)



Express Delivery Colors:



Other Available Colors:

None

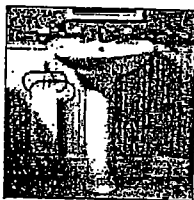
[Click here to learn more at American Standard colors note that colors shown on website will appear slightly than the actual product color](#)

[Click here to learn more at Express Delivery.](#)

TOILET OPTION A

AquaForce
PRESSURE SYSTEM

Complementary Products:



Cadet Pedestal Sink



Cadet 5' x 32" Bathtub



Colony Soft Two-Handle Bathroom Faucet with Lever Handles

Downloadable F



Spec Sheet



Installation Notes



Repair Parts

[Download pdf viewer: Adobe.com.](#)

Download CAD draw

» Cadet RF 10" Round

» Cadet RF 12" Round

» Cadet RF 14" Round

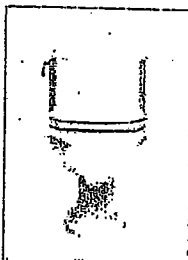
Similar Products:



Cadet One-Piece
Elongated Toilet



Repertoire Two-
Piece Elongated
Toilet



Antiquity One-
Piece Elongated
Toilet

Product Specifics:

Main Fixture

- **2798.010** Cadet RF 10" Rough
254mm (10") rough toilet complete, less seat.
List Price: \$232-313, based on color

- **2798.012** Cadet RF 12" Rough
305mm (12") rough toilet complete, less seat.
List Price: \$171-242, based on color

- **2798.014** Cadet RF 14" Rough
356mm (14") rough toilet complete, less seat.
List Price: \$248-340, based on color

Add. Fixture/Component Parts

- **047192-XXX0A** Trip Lever
List Price: \$11-19, based on color

- **3454.016** Ravenna Round Front Bowl
With bolt caps
List Price: \$98-138, based on color

- **4112.016** Tank
Complete with coupling components and tank trim.
List Price: \$73-104, based on color

- **4112.300** Tank
Complete with chrome all-metal trip lever.
List Price: \$83-113, based on color

- **4114.016** Tank
Complete with coupling components and tank trim.
List Price: \$150-202, based on color

- **735083-400** Tank Cover
List Price: \$40-55, based on color

- **738690-XXX0A** Enfield Front & Angle Mount Trip Lever (specify finish)
Available in Polished Chrome (002), Polished Nickel (008), Blackened Bronze (068), Polished Brass (099) and Satin (295).
List Price: \$40-60, based on finish

TOILET OPTION A

2.12

GERBER

VITREOUS CHINA

TOILET OPTION B

1 of 2

TOILET
21-700

AQUA SAVER™ Round Front Toilet

10" Rough-in

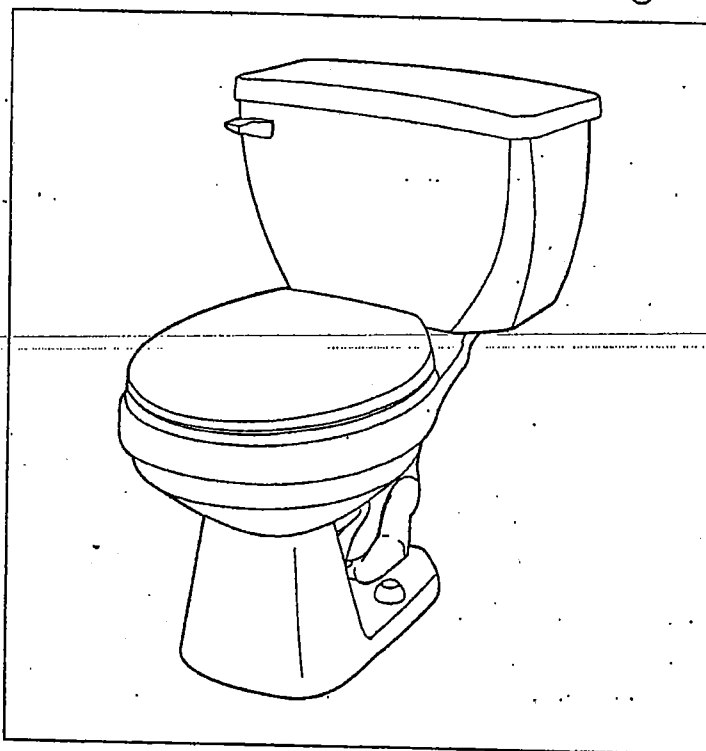


Features:

- Low Consumption 1.6 gpf (6.0 Lpf)
- Round Front Bowl
- Elite Tank
- Anti-Siphon Gerber Pilot Fill Valve
- Tamper-Resistant Volume Rated Flapper
- Reverse Trap
- Front Jet Flushing Action
- Front Tank Lever
- All Standard Colors
- 2 Bolt Caps

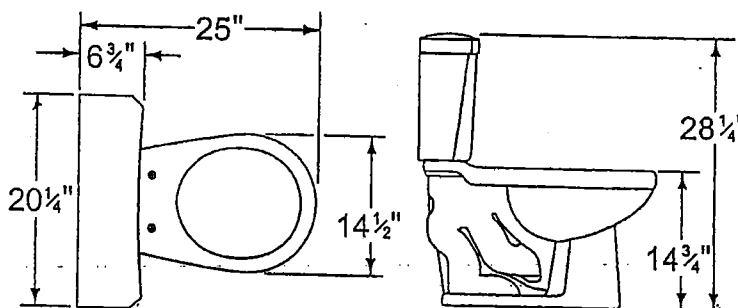
Dimensions:

Height	28 1/4"
Width	20 1/4"
Depth	25"
Rough-in	10"
Water Surface from Rim	5 3/4"
Trapway (min)	1 3/4"
Water Surface	9 1/2" x 8"
Water Seal	2 3/4"
Shipping Weight	86 lbs



Specifications: Bowl — #21-752 Round Front
Seat not included

Tank — #28-795



THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6Lpf) OR LESS.



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Because we are committed to continual product improvement, specifications are subject to change without notice.

Printed in the U.S.A. 3/03

TOILET OPTION B

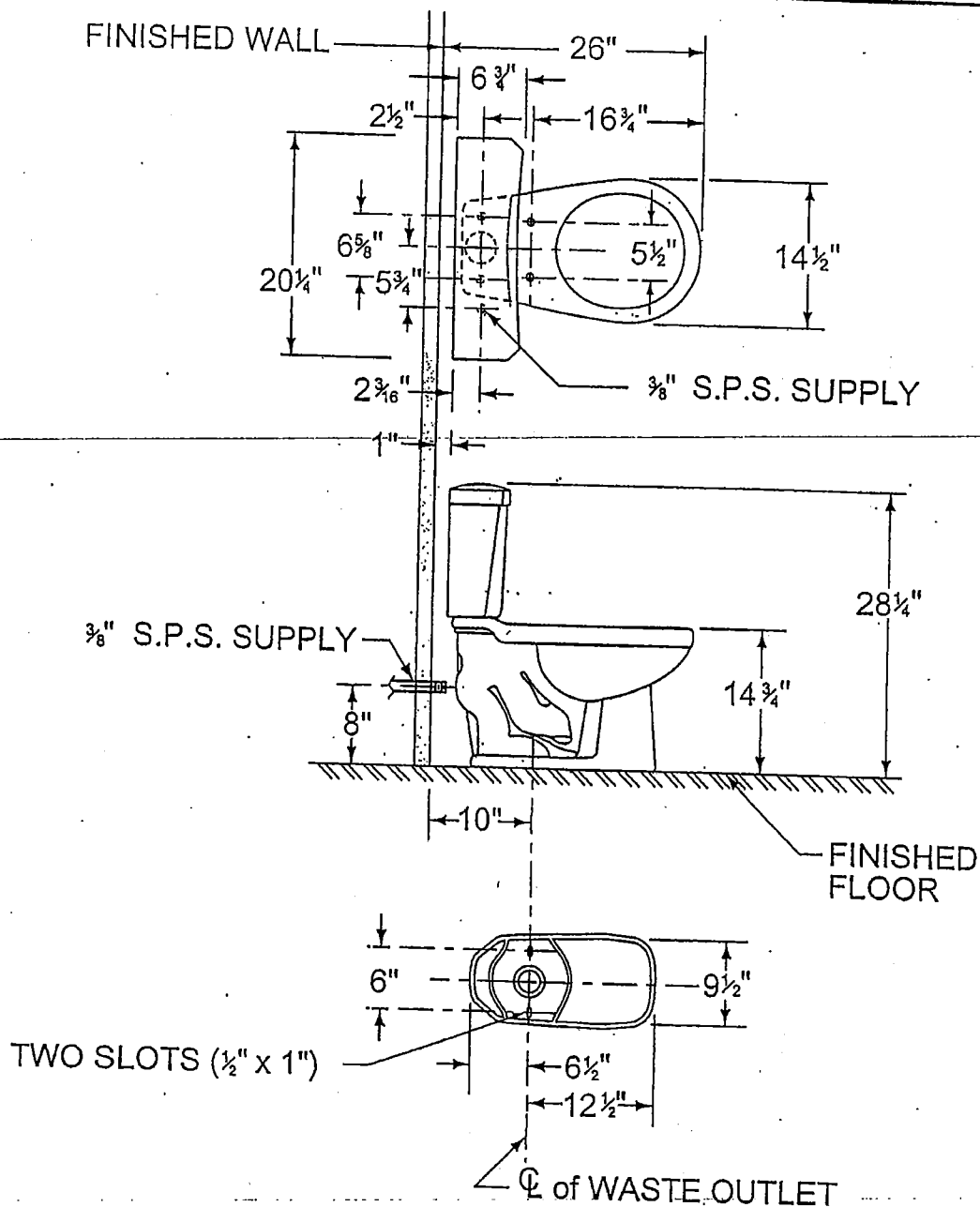
1.6 gpf (6 Lpf) LOW CONSUMPTION AQUA SAVER™ TOILET

2 of 2

21-700

Round Front, 10" Rough-in
(Bowl 21-752 with Tank 28-795)

GERBER



NOTES:

All dimensions are in inches.

Illustrations may not be drawn to scale.

IMPORTANT:

Dimensions of fixtures are nominal and may vary within the range of tolerances established by ASME Standard A 112.19.2.

THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6 Lpf) OR LESS.

GERBER.

VITREOUS CHINA

TOILET
21-702

AQUA SAVER™ Round Front Toilet

12" Rough-in

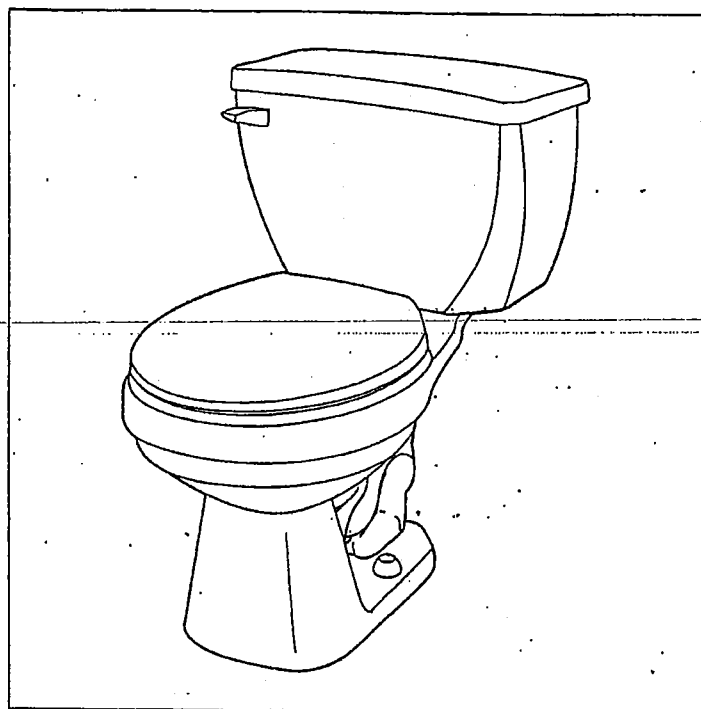


Features:

- Low Consumption 1.6 gpf (6.0 Lpf)
- Round Front Bowl
- Elite Tank
- Anti-Siphon Gerber Pilot Fill Valve
- Tamper-Resistant Volume Rated Flapper
- Reverse Trap
- Front Jet Flushing Action
- Front Tank Lever
- All Standard Colors
- 2 Bolt Caps

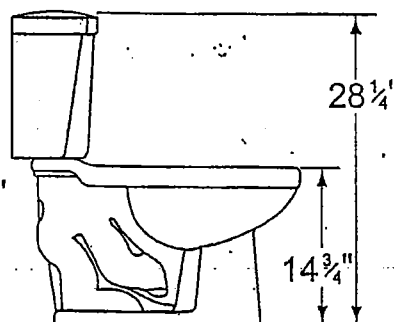
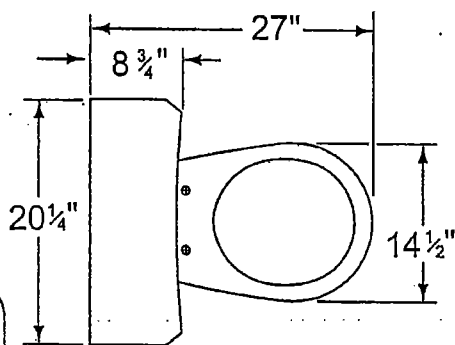
Dimensions:

Height	28 1/4"
Width	20 1/4"
Depth	27"
Rough-in	12"
Water Surface from Rim	5 3/4"
Trapway (min)	1 3/4"
Water Surface	9 1/2" x 8"
Water Seal	2 3/4"
Shipping Weight	90 lbs



Specifications: Bowl — #21-752 Round Front
Seat not included

Tank — #28-790



THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6 Lpf) OR LESS.



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TOILET 21-702 (1F2)

TOILETS

21-702

Round Front, 12" Rough-in
(Bowl 21-752 with Tank 28-790)



IMPORTANT:
Dimensions of fixtures are nominal and may vary within the range of tolerances established by ASME Standard A 112.19.2.

THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6 Lpf) OR LESS.

SECTION 02070 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes demolition and removal of the following:
 - 1. Demolition and removal of selected interior portions of a building.
 - 2. Repair procedures for selective demolition operations.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- C. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, all demolished materials shall be removed from Project site.

1.4 SUBMITTALS

- A. Proposed Control Measures: Submit statement or drawing that indicates the measures proposed for use, proposed locations, and proposed time frame for their operation. Identify options if proposed measures are later determined to be inadequate. Include measures for the following:
 - 1. Dust control.
 - 2. Noise control.
- B. Schedule of Selective Demolition Activities: Indicate detailed sequence of selective demolition and removal work, with starting and ending dates for each activity, interruption of utility services, use of elevator and stairs, and locations of temporary partitions and means of egress.
- C. Pre-demolition Photographs or Videotape: Show existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.
- D. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.5 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.
- D. Pre-demolition Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. Tenants will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Tenants will not be disrupted. Provide not less than 72 hours' notice to Landlord prior to commencement of work.
- B. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
 - 1. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from authorities having jurisdiction.
- C. Owner assumes no responsibility for condition of areas to be selectively demolished.
 - 1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Owner or Owner's Representative. Hazardous materials will be removed under a separate contract.
- E. Storage or sale of removed items or materials on-site will not be permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

PART 2 - PRODUCTS

2.1 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
 - 1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 - 2. Use materials whose installed performance equals or surpasses that of existing materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Owner.
- E. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.

3.2 UTILITY SERVICES

- A. Existing Utilities: Maintain services indicated to remain and protect them against damage during selective demolition operations.
- B. Do not interrupt existing utilities serving occupied or operating facilities unless authorized in writing by the Owner. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to authorities having jurisdiction.
 - 1. Provide at least 72 hours' notice to Owner if shutdown of service is required during changeover.

3.3 PREPARATION

- A. Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with selective demolition operations.
- B. Conduct demolition operations and remove debris to ensure minimum interference with walkways, corridors, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct walkways, corridors, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- C. Conduct demolition operations to prevent injury to people and damage to adjacent facilities to remain. Ensure safe passage of people around selective demolition area.
 - 1. Erect temporary protection, such as walks, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 2. Protect walls, ceilings, floors, and other existing finish work that are to remain and are exposed during selective demolition operations.
 - 3. Cover and protect furniture, furnishings, and equipment that have not been removed.
- D. Temporary Partitions: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.

3.4 POLLUTION CONTROLS

- A. Dust Control: Use temporary enclosures, and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.
 - 1. Wet mop floors to eliminate tracked dirt and wipe down walls and doors of demolition enclosure. Vacuum carpeted areas.
- B. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- C. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of the Government and governing regulations.
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.

3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- B. Existing Facilities: Comply with Owner's requirements for using and protecting stairs, walkways, building entries, and other building facilities during selective demolition operations.

3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.

- C. Finishes: Restore exposed finishes of patched areas and extend restoration into adjoining construction in a manner that eliminates evidence of patching and refinishing.
- D. Floors and Walls: Where walls or partitions that are demolished extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish color, texture, and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Government's property and legally dispose of them.

END OF SECTION 02070

SECTION 06100 -CARPENTRY WORK

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Rough carpentry, finish carpentry, and millwork. Refer to Schedule located at the end of this Section.

1.02 RELATED WORK

- A. Section 09900 - Painting: Site finishing of finish carpentry and millwork.

1.03 REFERENCES

- A. MIL-L-1914-C Lumber and Plywood, Fire Retardant Treated.
- B. PS 1 - Construction; and Industrial Plywood.
- C. PS 20 - American Softwood Lumber Standard.
- D. PS 51 - Hardwood and Decorative Plywood.
- E. PS 58 - Basic Hardwood.
- F. NFPA - National Design Specification for Wood Construction.

1.04 QUALITY ASSURANCE

- A. Rough Carpentry Lumber: Visible grade stamp, of agency certified by National Forest Products Association (NFPA).
- B. When applicable, fabricate millwork and site made finish carpentry items in accordance with recommendations of Quality Standards of Architectural Woodwork Institute (AWI).

1.05 SUBMITTALS

- A. Submit samples of standard colors and patterns of finishes for vanity casework and wood trim.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver shop fabricated carpentry items until site conditions are adequate to receive the work. Protect items from weather while in transit.
- B. Store indoors, in ventilated areas with a constant, minimum temperature of 60 degrees F (16 degrees C), maximum relative humidity of 25 to 55 percent.

PART 2 PRODUCTS

2.01 ROUGH CARPENTRY MATERIALS

- A. Lumber: PS 20; graded in accordance with established Grading rules; maximum moisture content of 19%; 15% for southern pine; of following grades:
 - 1. Bearing Wall Stud Framing: "Stud" grade, Douglas Fir-Larch or Southern Pine: or Construction Grade, Hem-Fir.
 - 2. Non-Bearing Wall Stud Framing: "Stud" Grade S.P.F. is allowed.
 - 3. Joist-Rafters and lintels: #2 grade Douglas Fir-Larch or Southern Pine.
 - 4. Light Framing: Standard Grade.
- B. Plywood & Oxboard:
 - 1. Grab Bar Reinforcing Sheathing: 3/4" thick plywood 48/24 CD INT-APA 5 ply.
- C. Screw Fasteners: Non-corrosive as described on drawings.
- D. Adhesive: Of type recommended for use with floor sheathing.
- E. Bolts, Nuts, Washers, Lags, Pins: plain finish for interior locations.

2.02 FINISH CARPENTRY AND MILLWORK MATERIALS

- A. Softwood Lumber: PS 20; graded in accordance with the requirements of AWI; maximum moisture content of 6 percent for interior work and 15% for exterior work; of following species and grades:
 - Item:
 - Interior base: To match existing.
 - Door Casing: To match existing.
- B. Closet Shelving: Cut down existing or replace with wood particle board 3/4" with hardwood edge band - painted.
- C. Counter tops to be reused or shall be post-formed grade with backsplash and front edge integral.
- D. Adhesive: For shop fabricated work, adhesive: of type recommended by millwork manufacturer to suit application.
- E. Nails: Size and type to suit application.

2.02 HARDWARE

- A. Reuse existing or match existing with same manufacturer.

2.03 FABRICATION

- A. Fabricate millwork and finish carpentry items in accordance with recommendations of AWI. Shop fabricate items where possible.
- B. Fit shelves, doors and exposed edges with 3/8 inch thick matching hardwood edging. Use full length pieces only.
- C. Apply plastic laminate finish in full sheets consistent with manufactured sizes. Corners and joints to be hairline. Locate counter butt joints at least 2 feet from sink cut-outs.
- D. Cap exposed plastic laminate edges with material of same finish and pattern.
- E. Use exposed fastening devices or nails only when unavoidable.
- F. Shop assemble millwork and finish carpentry items for delivery to site in sizes easily handled and to ensure passage through building openings.

2.04 PREPARATION OF FINISH CARPENTRY ITEMS AND MILLWORK FOR FINISHING

- A. Sand work smooth and set exposed fasteners. Apply wood filler in exposed fastener indentations and leave ready to receive site applied finishes. On items to receive transparent finishes, use wood filler which matches surrounding surfaces and of types recommended for applied finishes.
- B. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, and other fixtures and fitments. Verify locations of cutouts from site dimensions.

PART 3 EXECUTION

3.01 FRAMING, FURRING, AND STRIPPING

- A. Erect wood framing, furring, stripping and nailing members true to lines and levels. Do not deviate from true alignment more than 1/8 inch.
- B. Space members as shown on drawings.
- C. Construct members of continuous pieces of longest possible lengthss

3.02 INSTALLATION OF FINISH CARPENTRY ITEMS AND MILLWORK

- A. Set and secure millwork and finish carpentry items in place rigid, plumb, and square.
- B. Use purpose designed fixture attachments for mounted components.
- C. Use threaded steel concealed joint fasteners to align and secure adjoining counter tops.
- D. When necessary to cut and fit on site, make material with ample allowance for cutting. Provide trim for scribing and site cutting.
- E. Counter-sink semi-concealed anchorage devices used to wall mount components and conceal with solid plugs of species to match surrounding wood. Place flush with surrounding surfaces.

END OF SECTION 06100

SECTION 06220 - MILLWORK

PART 1 GENERAL

1.01 SHOP DRAWINGS

- A. Samples: Submit drawings, showing cabinetry layout, details of construction, dimensions, materials and hardware schedule. Furnish samples of plastic laminate for color selection.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Solid Stock: Select Red Oak uniform in appearance and free from defects.

~~B. Plywood~~

1. Lumber core with rotary cut veneer on exposed face, including back side of hinged doors.
Select for uniformity of grain and color appearance. Species: same select hardwood as solid stock.

2. PSI-66 Grade A Douglas Fir face veneer for shelves in cabinets. Oak edge-band on exposed edges.

- C. Cores: CS-236-66, Type 1, Grade B, Class 2, wood particle board for plastic laminate coverings, except B - D Interior grade plywood for vertical surfaces.

- D. Hardwood: Tempered, meeting Fed. Spec. LLL-H-35, Type II.

- F. Hardware: Reuse existing if acceptable to owner. If new is required, use Corbin, Ives, Stanley, Knappe & Vogt and as specified or same type of Amerock or Lawrence. Finish: US26D for hinges and pulls, unless indicated otherwise.

Shelf Standards: K & V 83 with 177 supports (for exposed shelving).

Shelf Standard: K & V 255 with 256 clips.

Cabinet Hinges: Stanley 1544.

Cabinet Pulls: Stanley 4478

Cabinet Catches: Stanley 35

Drawer Slides: K & V 1300

2.02 FABRICATION

- A. Fabricate to design and details indicated, and to AWI Custom Grade construction unless specified otherwise.

1. Cabinet Instructions: Full horizontal web-frame and vertical solid panel. Mill assemble as far as practicable, with surfaces smooth and free of machine marks. Make joints strong and free of shrinkage, opening or other deterioration. Miter outside and cope inside angles of rim. Back kerf trim 4" wide and wider. Glue joints under pressure where possible and glue-block concealed locations of shop assembled surfaces.
- B. Cabinet Ends, Bottoms, Partitions, Web-Frames and Shelves: 3/4" thick; concealed ends and bottom securely attached to adjoining cabinet walls or base and sleepers: 1/2" thick; backs: 1/4" plywood or hardboard.
- C. Cabinet Doors: Veneered 5-ply with hardboard or softwood block core or particle board core, and with matching edge strips, 3/4" thick.
- D. Shelves to be glued solid stock or plywood with solid edges. Mortise hinges for flush doors. Shelf standards surface mounted and of sufficient length to adjust shelves within 4" of top and bottom of cabinet.
- E. Install plastic laminate for counter tops and mounting boards according to manufacturer's directions with minimum of joints practicable. At edges extend face sheet over edge sheet before trimming.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install interior trim and millwork cabinets. Blind nail where possible, screw cabinets for ease of removal. Set finishing nails on exposed surfaces. Scribe, miter and join accurately and neatly. Filler and scribe strips to match species adjoining natural or stain finished wood. Shim counter-tops to be level within 1/16".

END OF SECTION 06220

SECTION 07900-JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preparing sealant substrate surfaces.
- B. Sealant and backing.

1.02 RELATED SECTIONS

- A. Section 06001: Sealants used in conjunction with Countertops and millwork.
- B. Section 15460: Sealants used in conjunction with plumbing fixtures.

1.03 REFERENCES

- A. ANSI/ASTM D1056 - Flexible Cellular Materials - Sponge or Expanded Rubber.
- B. ANSI/ASTM D1565 - Flexible Cellular Materials - Vinyl Chloride Polymers and Copolymers.
- C. ASTM C790 - Use of Latex Sealing Compounds.
- D. FS TT-S-00230 - Sealing Compound: Elastomeric Type Single Component.
- E. FS TT-S-001543 - Sealing Compound, Silicone Rubber Base.
- F. SWI (Sealing and Water-proofers Institute) - Sealant and Caulking Guide Specification.

1.04 SUBMITTALS

- A. Submit product data indicating sealant chemical characteristics, performance criteria, limitations, and color availability.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

PART 2 PRODUCTS

2.01 SEALANTS

- A. Silicone Sealant: FS TT-S01543, Class A, low modulus type; color; as selected; manufactured by Dow Corning, or General Electric.

2.02 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.

- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work.

3.02 PREPARATION

- A. Clean and prime joints in accordance with manufacturer's instructions.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Protect elements surrounding the work of this Section from damage or disfiguration.

3.03 INSTALLATION

- A. Install sealant in accordance with manufacturer's instructions.
- B. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- C. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- D. Tool joints concave.

3.04 CLEANING AND REPAIRING

- A. Clean adjacent soiled surfaces.
- B. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.05 PROTECTION OF FINISHED WORK

- A. Protect sealants until cured.

3.06 SCHEDULE

<u>Location</u>	<u>Type</u>
A. Bathtub/Countertops/ Plumbing Fixtures	Silicone, Fungus Resistant

END OF SECTION 0790

SECTION 8210 - WOOD DOORS & FRAMES

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Wood doors.

1.02 RELATED WORK

- A. Section 06100 - Carpentry.
- B. Section 09900 - Painting: Site finishing doors.

1.03 REFERENCES

- A. ANSI/NWMA I.S.1 - Industry Standard For Wood Flush Doors.
- B. ANSI A135.4 - Basic Hardboard.

- C. AWI - Quality Standards of Architectural Woodwork Institute.

1.04 QUALITY ASSURANCE

- A. Conform to requirements of ANSI/NWMA I.S.1.

1.05 SUBMITTALS

- A. Submit product data.

1.06 DELIVERY, STORAGE, AND PROTECTION

- A. Package, deliver, and store doors in accordance with ANSI/AWMA requirements.

PART 2 PRODUCTS

2.01 DOOR TYPES

- A. Flush Interior Doors: 1-3/8 inches thick; hollow core construction; hardboard veneer faces.

Doors equal to:

- Perma-Door by Steelcraft
- Rigi-Dor by Johnson Metal Products
- A-Core Series: Acorn
- Stanley

2.02 DOOR CONSTRUCTION (ANSI/AWMA - I.S.1 STANDARD)

- A. Hollow Core: ANSI/AWMA I.S.1; mesh or cellular core including solid lock blocks, vertical edge bands, top and bottom rails.

- B. All wood doors to have solid wood rails, stiles and lock blocks.

2.03 FRAME TYPES

A. Solid wood pre-hung for all doors 3'0" wide.

B. Reinforcements:

Hinges: As supplied by door manufacturer.

Surface-Mounted Hardware: for frames and doors.

2.05 ADHESIVES

A. Interior Doors: ANSI/NWMA, Type II.

2.06 FABRICATION

A. Fabricate non-rated doors in accordance with ANSI/NWMA I.S.1 requirements.

B. Pre-machine doors for finish hardware.

2.07 TRIM

A. Match existing trim.

2.08 DOOR FINISHING

A. Stain to match existing.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors in accordance with manufacturer's instructions.

B. Machine cut relief for hinges and coring for handsets and cylinders.

C. Pilot drill screw and bolt holes.

D. Prepare doors to receive finish hardware in accordance with ANSI/AWMA requirements.

E. Conform to ANSI/AWMA requirements for fit tolerances.

3.02 ADJUSTING AND CLEANING

A. Adjust for smooth and balanced door movement.

END OF SECTION 08210

SECTION 8712 DOOR HARDWARE

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Hardware for wood faced doors.
- B. Thresholds.

1.02 RELATED WORK

- A. Section 06001 Carpentry.
- B. Section 06220 Millwork.

1.03 REFERENCES

- A. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
- B. ANSI/NFPA 80 - Fire Doors and Windows.
- C. BHMA - Builders' Hardware Manufacturers Association.
- D. NFPA 101 - Life Safety Code.
- E. UFAS Standards.

1.04 COORDINATION

- A. Coordinate work of this Section with other directly affected Sections involving manufacturer of any internal reinforcement for door hardware.

1.05 SUBMITTALS

- A. Submit schedule, and product data.
- B. Indicate locations and mounting heights of each type of hardware.
- C. Provide product data on specified hardware.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. All hardware to match existing in the residential units. The following is to be used if matching is not possible.
- B. Hinges: Lawrence or Stanley.
- C. Latch Sets: Equal to Wieser, Stanley, Schlage. All with lever handles.
- D. Cylinder Locks: Same as Latch sets.

2.02 KEYING

- A. All doors of each unit to be keyed alike. Provide master key for all units for owner.
- B. Supply keys as directed by owner for each lock.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings instructed by the manufacturer.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of BHMA.
- B. Use the templates provided by hardware item manufacturer.

END OF SECTION 08712

SECTION 09260 GYPSUM BOARD SYSTEMS

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Gypsum board.
- B. Taped and sanded joint treatment.

1.02 RELATED WORK

- A. Section 06001 - Carpentry.
- B. Section 09900 - Painting.

1.03 REFERENCES

- A. ANSI/ASTM C36 - Gypsum Wallboard.
- B. ANSI/ASTM C79 - Gypsum Sheathing Board.
- C. ANSI/ASTM C442 - Gypsum Backing Board.
- D. ANSI/ASTM C475 - Joint Treatment Materials for Gypsum Wallboard Construction.
- E. ANSI/ASTM C514 - Nails for the Application of Gypsum Wallboard.
- F. ANSI/ASTM C630 - Water Resistant Gypsum Backing Boards
- H. ANSI/ASTM C754 - Installation of Framing Members to Receive Screw Attached Gypsum Wallboard, Backing Board, or Water Resistant Backing Board.
- I. GA-201 - Gypsum Board for Walls and Ceilings.
- J. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board.

PART 2 PRODUCTS

2.01 FRAMING MATERIALS

- A. Furring, Framing and Accessories GA 201 and GA 216.
- B. Fasteners: GA 201 and GA 216.

2.02 GYPSUM BOARD MATERIALS

- A. Standard Gypsum Board: ANSI/ASTM C36; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.
- B. Moisture Resistant Gypsum Board: ANSI/ASTM C630; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.

2.03 ACCESSORIES

- A. Corner Beads: Metal.
- B. Joint Materials: GA 201 and GA 216; reinforcing tape, joint compound, adhesive, water, and fasteners.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that site conditions are ready to receive work.
- B. Beginning of installation means acceptance of surfaces.

3.02 REINFORCEMENT

- A. Provide all necessary framing and blocking to support gypsum boards at openings, cutouts and drywall joints.
- B. Provide 2 x 4 wood nailers for installing ceiling drywall at ceiling/wall intersections. Begin nailing of ceiling drywall to roof truss chords at 18" from ceiling/wall intersections.

3.03 GYPSUM BOARD INSTALLATION

- A. Install gypsum board in accordance with GA 201 and GA 216. Full adhesive and nailing.
- B. Erect single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- C. Fastening shall be by one of the following methods:
 - 1. Single Nail Method: Nails at 7" o.c. for walls, 7" o.c. for ceilings, perimeter nails between 1/2" and 3/8" from edge of board. Begin nailing from center of board and work toward edges. Use a drywall hammer with a crowned head to seat nails in a shallow dimple without breaking the paper.
 - 2. Screw Method: Screws 6" o.c. for ceilings; screws 6" o.c. for walls. (Perimeter and field of board). Screws to be 1" USG Type S.

D. Treat cut edges and holes in moisture resistant gypsum board with sealant.

E. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

3.04 JOINT TREATMENT

A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.

B. Feather coats onto adjoining surfaces so that camber is maximum 1/16 inch.

3.05 TOLERANCES

A. Maximum Variation from True Flatness: 1/8 inch in 10 feet.

3.06 SCHEDULE

A. 5/8" thick gypsum wallboard on walls and ceilings.

B. 5/8" thick water resistant ("MR") type in bathrooms.

END OF SECTION 09260

SECTION 09900 - PAINTING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Surface preparation.
- B. Surface finish schedule.

1.02 REFERENCES

- A. ANSI/ASTM D16 - Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.

1.03 DEFINITIONS

- A. Conform to ANSI/ASTM D16 for interpretation of terms used in this Section.

1.04 QUALITY ASSURANCE

- A. Product Manufacturer: Company specializing in manufacturing quality paint and finish products with 5 years experience.
- B. Applicator: Company specializing in commercial painting and finishing with 3 years experience.

1.05 SUBMITTALS

- A. Provide product data on all finishing products.
- B. Submit samples of manufacturers standard colors for selection.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptance.
- B. Container labeling to include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, cleanup, color designation, and instructions for mixing and reducing.
- C. Take precautionary measures to prevent fire hazards and spontaneous combustion.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during, and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

Equal to:

A. Glidden

B. Pratt and Lambert

C. Iowa Paint

D. Diamond Vogel

E. Sherwin Williams

2.02 MATERIALS

A. Coatings: Ready mixed, except field catalysed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.

B. Coatings: Good flow and brushing properties; capable of drying or curing free of streaks or sags.

C. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.

2.03 FINISHES

A. Refer to schedule at end of Section for surface finish schedule.

PART 3 EXECUTION

3.01 INSPECTION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Beginning of installation means acceptance of existing surfaces.

3.02 PREPARATION

- A. Remove electrical plates, hardware, light fixture trim, and fittings prior to preparing surfaces or finishing.
- B. Correct minor defects and clean surfaces which affect work of this Section.
- C. Shellac and seal marks which may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Gypsum Board Surfaces: Latex fill minor defects. Spot prime defects after repair.
- F. Interior Wood Items Scheduled to Receive Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

G. Wood Doors Scheduled for Painting: Seal top and bottom edges with primer.

3.03 PROTECTION

- A. Protect elements surrounding the work of this Section from damage or disfiguration.
- B. Repair damage to other surfaces caused by work of this Section.
- C. Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces.
- D. Remove empty paint containers from site.

3.04 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry.
- C. Apply each coat to uniform finish.
- D. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- E. Sand lightly between coats to achieve required finish.
- F. Allow applied coat to dry before next coat is applied.
- G. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.

3.05 CLEANING

- A. As Work proceeds, promptly remove paint where spilled, splashed, or spattered.

B. During progress of Work maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris.

C. Collect cotton waste, cloths, and material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

3.07 SCHEDULE - SHOP PRIMED ITEMS FOR SITE FINISHING

A. Metal Fabrications Section 05500: from rails and fencing.

3.08 SCHEDULE - INTERIOR SURFACES

A. Wood - Painted

1. One coat alkyd prime sealer if unprimed.
2. Two coats alkyd enamel, semi-gloss.

B. Wood - Transparent

1. Filler coat (for open grained wood only).
2. One coat stain.
3. One coat sealer.
4. Two coats varnish, satin.
5. Produce finish on oak millwork items.

3. Product finish on walls in rooms scheduled to receive paint finish.

A. Gypsum Board

1. One coat alkyd primer sealer.
2. Two coats latex enamel, semi-gloss.
3. Produce finish on wall, ceilings and bulkheads.

END OF SECTION 09900

SECTION 15010 MECHANICAL WORK IN GENERAL

1. CODES, ORDINANCES, & PERMITS

All governmental codes and ordinances that are applicable and in effect at the time and location of this work are hereby referenced as an integral part of the specification to establish minimum standards of design detail, materials, and workmanship. Extra payment will not be allowed for work or changes required by local code enforcement authorities. This is not to preclude the establishment of non-conflicting higher standards as may be specified herein and/or indicated on the drawings. In case of conflict between any of the standards established herein and a governmental code or ordinance, refer to the Architect and obtain instructions before proceeding with the work involved.

Apply for, obtain, and pay for all required permits and inspection certificates.

Particular attention is directed to:

State and local plumbing codes

Underwriters', NFPA, and building code regulations governing the fuel burning appliances and equipment

Local regulations governing service taps for gas, water and sewer

NFPA and building code regulations governing the fuel piping systems

NFPA and building code regulations governing openings in fire resistive construction

NFPA and building code regulations governing clearances to combustible materials.

2. BUILDING CONSTRUCTION

Refer to the general construction drawings, which are bound with the drawings of this work, for construction details, elevations, etc.

3. INSTALLATION OF THE WORK

Examine the site and all drawings before proceeding with the layout and installation of this work.

Arrange the work essentially as shown, exact layout to be made on the job to suit actual conditions. Confer and cooperate with other trades on the job so all work will be installed in proper relationship. Precise location of parts to coordinate with other work is the responsibility of the Contractor. Arrangement of equipment and connections shall permit clear access for service, including component removal.

Arrange for required chases, slots, and openings. Contractor is liable for cutting or patching made necessary by his failure to make proper arrangements in this respect.

Indicated equipment connections are necessarily based on equipment of a given manufacture. Contractor assumes responsibility for proper arrangement of pipes, ducts, etc., and for other services to connect "approved equal" or "alternate" equipment in a proper and approved manner. Follow equipment manufacturer's detailed instructions and recommendations in the installation and connection of all equipment. Installation and/or connections that are contrary to manufacturer's instructions shall be reworked by the Contractor as directed by the Architect. Particular attention is directed to performance, safety, and manufacturer's warranty on the equipment involved. Contractor shall obtain from the equipment manufacturer(s) the necessary instructions and shall thoroughly familiarize himself with them before commencing any installation. In case of conflict between manufacturer's instructions and the contract documents, notify the Architect before proceeding.

Install all work in a neat and workmanlike manner, using only workmen thoroughly qualified in the trade or duties they are to perform. Rough work will be rejected.

Provide a full-time superintendent who shall oversee and coordinate the work with other trades, receive instructions from the Architect, and make proper layout of the work to suit job conditions and to satisfy the general requirements of the contract.

4. CLEANING & RUBBISH

At all times, keep the premises clear of undue accumulation of rubbish.

On completion of the work, remove all rubbish and debris resulting from this contract and subcontracts and dispose of same.

All equipment, pipe, fixtures, etc. shall be thoroughly cleaned and left in a satisfactory condition for use.

Equipment used for temporary heat and/or ventilation shall be protected to prevent unnecessary induction of dirt and shall be thoroughly cleaned of all dust, etc. that is allowed to accumulate.

Adequate filters shall be used and maintained in or for all fan coil equipment used for temporary heat and/or ventilation.

All air ducts shall be protected during construction. All openings shall be suitably closed to effectively prevent the entrance of dust and construction debris.

5. SHOP DRAWINGS

Submit shop drawings, descriptive literature, and connection diagrams on all equipment to be furnished under this contract. Submittals shall plainly show all features that are pertinent to the design and specifications including materials, weights, finishes, performance data, etc.

Contractor shall check and verify shop drawings for shape, dimensions, connections, and details of attachment to the construction before submittal. Submitted shop drawings will be presumed to have been so checked by the Contractor.

Make submittals as soon as practicable after the signing of the contract. Shipment shall not be released until shop drawings have been finally approved.

Shop drawing submittals shall include drawings of equipment bases.

Required number of copies of shop drawings will be the number required by the Contractor plus three (3).

6. OPERATION & MAINTENANCE MANUALS

Furnish to the Architect for delivery to the Owner, at least (3) three bound and indexed copies of an approved operation and maintenance instruction booklet covering each item of equipment installed under this contract. These booklets shall provide complete instructions on the proper operation and use, lubrication and periodic maintenance, together with the source of replacement parts and service for the item of equipment covered.

On completion of the job, the Contractor shall spend a reasonable amount of time with the Owner in instruction and demonstration of the operation of the system.

7. ELECTRICAL CONNECTIONS

All electrical work, including mounting starters, is specified in Division 16 (Electrical Work) unless specifically required herein.

Furnish detailed information to the Electrician on power and control wiring requirements for all mechanical equipment and the control system actually purchased, as soon as practicable.

Provide diagrams and instructions necessary for the Electrician to make connections properly.

Electrical work required under this contract shall be done in accordance with applicable provisions of the National Electrical Code and local ordinances.

8. ADJUSTING, BALANCING & TESTING

On completion of the installation, provide all necessary adjusting and balancing to obtain proper operation of all equipment and systems. Provide all facilities (except fuel and/or electrical energy) and make tests required for adjustments and balancing or to prove the performance of any piece of equipment if so ordered.

9. RECORD DRAWINGS

The Architect will furnish the Contractor one set of blue line prints of the mechanical drawings as issued for this contract. Use these prints to indicate accurately and neatly any deviation in the actual installation from the drawings as issued. At the completion of the job, the drawings shall be delivered to the Architect for a permanent record of the exact location of all equipment, pipe runs, etc., as incorporated in the job.

10. CONTRACTOR'S WARRANTY

Contractor shall warrant all equipment and the installation to function properly for a period of one year from the date of final acceptance as indicated on HUD Final Inspection Report HUD 5379.

Defects becoming apparent within the warranty period shall be repaired by the Contractor as directed by the Architect.

The warranty shall not obligate the Contractor to repair damage resulting from accident or improper operation or care on the part of the Owner, and not due to defective material or installation.

END OF SECTION 15010

BASIC MECHANICAL MATERIALS & METHODS

1. PIPE & FITTINGS

See technical specification headings for types of piping materials to be used for specific services and locations. Special requirements under individual headings take precedence over general requirements herein. General minimum requirements for pipe and fittings are:

Steel pipe: ASTM A-120 & A-53

Copper tube: (water, waste, etc.)ASTM B-88

Copper tube (refrigerant piping):ASTM B-280

Cast iron soil pipe: ASTM A-74-87, A-888

Clay tile sewer pipe: ASTM C-700

Ductile cast iron water main: USAS A-21:11

Cast iron screwed fittings: USAS B 16.4 - 1963

Malleable iron screwed fittings: USAS B 16.4 - 1963

Steel welding fittings: USAS B 16.9 - 1964

Cast iron drainage fittings: ASTM A-74-87

Steel socket weld fittings: USAS B 16.11 - 1966

Cast brass solder joint fittings: USAS B 16.18 - 1963

Wrought copper solder fittings: USAS B 16.22 - 1963

ABS DWV pipe and fittings: CS 270-65

PVC DWV pipe and fittings: CS 272-65

Corrugated polyethylene drainage tubing: ASTM D3350

2. PIPE ASSEMBLY

In general, assembly of piping shall be as specified herein. Special requirements under individual headings for specific purposes take precedence over the general requirements herein.

Threaded joints in steel pipe:

Cut pipe to accurate length and ream the ends. Use clean sharp dies; imperfectly formed or torn threads will be rejected. Use approved dope on male threads only and clean away excess dope.

Sweat joints in copper pipe:

Cut pipe squarely to accurate length for full penetration into fittings. Remove burrs from ends, clean soldering surfaces thoroughly, flux, assemble, and solder before surfaces oxidize. Use approved non-corrosive flux and ASTM B-32, 95TA 95/5 solder. Use sufficient heat for complete penetration of solder and wipe away excess flux and solder. Harris Stay Safe Bridgit with Stay Clean flux and Engelhard Silvabrite 100 are approved solders.

See Section 15650 for special requirements in assembling, cleaning, etc. of copper refrigerant piping.

Cast iron soil pipe:

Use pipe with ASTM C564-70(1982) push-on gaskets.

No hub pipe with stainless steel clamp joints may be used at Contractor's option. See pipe support specifications.

Clay tile sewer pipe:

Use pipe with ASTM Spec. C425-77(1982) prefabricated joints.

Welding steel pipe:

Use V butt welds, either arc or oxyacetylene. If electric arc is used, arrange for and pay for the electric energy. All fittings shall be shaped welding fittings. Use no miter joints or branches welded directly into the side of a pipe, except properly shaped branch pipe ends may be welded directly to the outside of 2" and larger mains. If the main is two or more pipe sizes larger than the branch.

Socket weld fittings in the sizes in which these are available shall be used.

Mechanical couplings:

Victaulic, Gustin-Bacon Gruvagrip 100, or approved equal with suitable gasket. Fittings shall be special grooved end type made for the couplings, of malleable iron. Pipe ends shall be grooved in accordance with the manufacturer's instructions. The system shall be rated for 1000 psi working pressure for pipes 3/4" to 6", 800 psi for 8" to 12" pipes. End pull rating at rated working pressure shall be 1150 lbs. per inch of nominal pipe diameter. Couplings shall permit angular deflection up to 2° for pipe up to and including 5", up to 1° for pipe 6" and larger.

Victaulic FIT plain end steel pipe couplings and fittings with proper gasket are acceptable in sizes 1" - 2".

Furnish -30° to 230°F gaskets for heating, -30° to 160°F gaskets for chilled water, etc. and Nitrile gaskets for petroleum services.

Schedule 40 ABS, PVC, or CPVC pipe:

Use tubing cutter or miter box and saw to cut pipe squarely to length. Taper end with an approved tapering tool. Remove all burrs inside and out. Break glaze on joint surfaces with fine sandpaper, apply solvent, apply cement, insert pipe end into fitting socket to full penetration, and turn 1/4 turn. Do not use thick or lumpy cement. Pipe and fittings must be of identical material, and the solvent and cement used must be proper for the material.

Adapters:

Use proper adapters when connecting pipe or fittings of different material.

Blocking and clamping:

Bell and spigot, mechanical joint, and similar joining methods that do not provide inherent resistance against axial separation shall be clamped and/or blocked at all ends and fittings where the pressure within the pipe (normal or surge) or thermal contraction or a combination would tend to separate the joint.

Corrugated polyethylene drainage tubing:

Use bands and fittings supplied by the tubing manufacturer. Installation shall be in accordance with ASTM D 2321, Class I, II, or III.

3. PIPE CLEANLINESS

Pipe assembly procedures shall keep the piping system as clean as possible. Each length of pipe and each fitting shall be ascertained free of foreign material that may have been introduced in storage and handling before it is assembled in the system. Assembly methods shall be such that the formation of and/or introduction of residues such as fluxes, oxides, cutting chips, oil, dope, joining materials, etc. is kept to a minimum. Open ends of pipe shall be suitably plugged or capped as the work progresses.

On completion of a piping system, or a section thereof, the system (section) shall be flushed as necessary to achieve cleanliness. Flushing fluid shall be non-deleterious to the piping and/or any of the components in the system. Flushing methods shall be such that foreign material is washed away from rather than into coils, valves, specialties, etc. Direction of flow of flushing fluid shall be opposite to normal direction of flow in the pipe wherever this is practicable.

All strainer screens, scale pockets, etc. shall be left thoroughly cleaned.

4. VALVES & COCKS

Provide valves and cocks as specified herein for general use, except where special requirements are given for specific services. Special requirements appearing under individual headings take precedence over the general requirements given herein.

Gate valves:

Screwed ends (or soldered ends to 2"), 125 lb. SP, 200 lbs. WOG, all bronze, solid wedge disc, rising stem.

Lunkenheimer 2151 screwed, 2132 soldered Jenkins 990 screwed, 991 soldered Crane 428 screwed, 1334 soldered Walworth 57 screwed, 57SJ soldered Stockham B100 screwed, B108 soldered Powell 500S screwed, 1821S soldered Hammond IB640 screwed, IB635 soldered Milwaukee 148 screwed, 149 soldered Nibco Scott T-111 screwed, S-111 soldered

Checks:

Screwed or soldered ends, 125 lb. SP, 200 lb. WOG, all bronze.

Lunkenheimer 2144 screwed, 2145 soldered Jenkins 996 screwed, N.A. Crane 37 screwed, 1342 soldered Walworth 3406 screwed, 3406SJ soldered Stockham B319 screwed, B309 soldered Powell 578 screwed, 1825 soldered Hammond IB940 screwed, IB912T soldered Milwaukee 509 screwed, 1509 soldered Nibco T413-B screwed, S-413-B soldered Metraflex 125 lb. rated silent check valves will be accepted.

Vertical lift "silent" checks as Milwaukee 1400, Nibco W-910, Stockham W970 are acceptable.

Victaulic checks and connectors are acceptable.

Cocks:

Screwed ends, all bronze, 150 lb. WOG straight way plug with square head and wrench, or Milwaukee UL; A.G.A. 175 lb. W.O.G. Butterball Butterfly.

Lunkenheimer 454
Crane 250
Powell 948
Wolverine 52599
Milwaukee Butterball BB-2-100

Ball valves:

Screwed or soldered ends, all bronze body, bronze or stainless steel ball, Teflon seats and O ring, lever handle, 150 lb. 600 W.O.G.

Lunkenheimer 707XLT screwed ;
Crane 9302 screwed, 9302S soldered
Stockham S216-BR-R-T screwed, S226-BR-R-S soldered
Watts B-6000 Series, screwed or soldered
Wolverine 52965 Series, screwed or soldered
Apollo 70-100 screwed, 70-200 soldered
Milwaukee BA100 screwed, BA150 soldered
Nibco T-585 screwed, S-585 soldered
Victaulic Series 721

Butterfly valves:

Milwaukee MW223E wafer or ML223E LUG, Keystone 228, Stockham, Lunkenheimer Regal, Jenkins 720-EL, Centerline Series A, Wolverine 52839 Series, Nibco NL-082 iron body aluminum bronze disc, stainless steel stem, EPDM seat, lubrized bronze or nylon bushings, positive shutoffs, 150 psi -20- to 250- service. 2" + down may be Milwaukee Butterball BB-2-100 screwed, Butterball BB-2-350 soldered. 2" up may be Victaulic VIC-300.

Butterfly valves shall be equipped with memory stop lever handles unless special operator is indicated.

If butterfly valves are used adjacent to any piece of equipment so they are the only means of isolating the equipment for service, there shall be separate flanged unions between the valve and the equipment arranged so the valve can remain in place to provide isolation while the pipe connection to the equipment is removed to service and/or replace the equipment. Tapped flanges may be used to accomplish the purpose. Requires butterfly to be full lug type.

5. PIPE HANGERS

Auto-Grip, Fee & Mason, Grinnell, steel clevis hangers, selected within manufacturer's published load ratings, accurately adjusted to maintain specified pipe grades and securely attached to the building by means of concrete inserts, expansion plugs, clamps, brackets, lag screws, etc. as applicable.

Hanger spacing for horizontal pipe shall not exceed:

Cast iron soil pipe/Each straight length of pipe
1" and smaller pipe (copper & steel)/6'-0"
1-1/4" to 2" pipe (copper & steel)/12'-0"
2-1/2" and larger pipe (copper & steel)/18'-0"
ABS, PVC, CPVC plastic, & other non-metallic, any size/4'-0"

Hanger rods shall be at least:
3/8" diameter for pipes to 2"

1/2" diameter for pipes 2-1/2" and 3"
5/8" diameter for pipes 4" and 5"

Rods for trapeze hangers supporting several pipes shall be sized for the load equivalent of the several pipes.

Hanger rods shall be attached to sufficiently rigid structural members of the building.

Provide additional hangers or anchoring devices necessary for proper support of piping at corners, tops of risers, etc.

Provide blocking at ends of runs and elbows as necessary to prevent movement from normal pressure and water hammer thrust forces.

Anchors shall consist of sufficiently rigid members properly clamped or welded to the pipe to positively prevent pipe movement at that point. Guides, as specified with expansion joints, shall be provided for piping connecting to expansion joints. Attach hangers and guides to sufficiently rigid structural members of the building.

Hangers for copper pipe shall be either copper plated type or there shall be a shield of 4 lb. sheet lead to completely surround the pipe and prevent direct contact to the hanger.

Supports for pipes with vapor barrier type covering shall not contact the pipe but shall surround the unbroken covering. Provide galvanized steel shields with mitered corners properly formed to the jacket O.D. between hanger clevises and the lower 1/3 of the circumference. Size shields as follows:

Pipe to 1"	18 ga. x 8" long
1-1/4" to 2"	16 ga. x 12" long
2-1/2" to 4"	14 ga. x 16" long

Use similar support to isolate vibration in refrigerant hot gas piping and other piping that is subject to vibration.

6. SLEEVES & ESCUTCHEONS

Provide sleeves around pipes and ducts passing through concrete or masonry. Use 18 ga. galvanized steel, "Sonopipe," or preformed plastic sleeves sized to allow approximately 1/8" gap around the pipe or its insulation. Sleeves around "cold" pipes and ducts with vapor barrier type insulation shall be sized to pass the uninterrupted insulation.

The Contractor is responsible for accurate location and setting of sleeves.

Steel sleeves will not be allowed in contact with copper pipe.

Where exposed pipes enter finished spaces, provide nickel plated escutcheon plates, set flush with finished surfaces.

Where more than one pipe is necessarily passed through a single sleeve as to a unit piping enclosure, or other conditions result in larger than 1/8" gap within the sleeve, the space shall be tightly packed with fiberglass to form a barrier against sound, vermin, fire, etc.

Provide properly fitted sheet metal flanges around sheet metal ducts entering exposed into finished spaces and/or to cover excessive gaps around ducts entering into non-finished spaces.

Use Carborundum Fiberfrax Fyr Putty or 3M Fire Barrier fire stop foam, sealant, or intumescent wrap. Install material suited for and in manner of proper UL listed assembly number for wall, ceiling, or floor and type of assembly penetrating. Follow all manufacturer's installation requirements to provide a rating at least equal to the construction penetrated.

All methods and products used for sealing fire wall or floor penetrations are to be approved by Architect/Engineer and local code authorities before installation.

7. INTERNAL WIRING

Equipment which is specified to be internally wired shall be furnished with complete internal power and control wiring ready for field connection of power supply and external controls, if any.

Internal wiring shall comply with applicable NEMA, NEC, and local code requirements. Complete and certified correct wiring diagrams shall be furnished with all factory wired equipment before it is finally accepted.

Power circuit(s) will be energized through molded case thermal magnetic circuit breakers with trip ratings as scheduled. Equipment-motor-starter characteristics shall be such that the equipment will start and operate satisfactorily when connected to the power supply as scheduled.

ENDO OF SECTION 15100

SECTION 15460 PLUMBING FIXTURES

1. SCOPE OF THE WORK

Furnish and install plumbing fixtures and trim as shown on the drawings and/ or specified herein.

Setting shall be absolutely tight and rigid on proper grounds. Rawl plugs are not acceptable anchor. Use Miracle Adhesives Corp. Tub-Caulk, pointing material under all setting surfaces.

Provide required trim including supplies, wastes, traps, and floor and wall plates. Coordinate sizes, locations, and configurations of openings with specified trim. Traps shall be adjustable type drawn brass, at least 17 ga. Exposed brass shall be chrome plated. Provide each fixture supply with an approved compression service stop. Exposed stops shall be either loose key or screwdriver type. Supply valves shall be interchangeable cartridge type with replaceable seats, discs, and O ring stem packing located below stem threads.

Protect fixtures after they are set. Thoroughly clean them at the completion of the job.

Enamel and porcelain shall be white.

See mechanical drawings for fixture schedule and specific model numbers.

Installation of all fixtures shall be in strict accordance with manufacturer's instructions and shall include all guarantees and warranties that they provide.

END OF SECTION 15460

SECTION 16010 ELECTRICAL WORK IN GENERAL

1. CODES, ORDINANCES AND PERMITS

All governmental codes and ordinances that are applicable and in effect at the time and location of this work are hereby referenced as an integral part of the specification to establish minimum standards of design detail, materials, and workmanship. Extra payment will not be allowed for work or changes required by local code enforcement authorities. This is not to preclude the establishment of non-conflicting higher standards as may be specified herein and/or indicated on the drawings. In case of conflict between any of the standards established herein and a governmental code or ordinance, refer to the Architect and obtain instructions before proceeding with the work involved.

Apply for, obtain, and pay for required permits and certificates of inspection. Particular attention is directed to:

National Electrical Code
Local electric wiring ordinances
Requirements of the electric utility company
Requirements of the telephone company

2. BUILDING CONSTRUCTION

Refer to the general construction drawings, which are bound with the drawings of this work, for construction details, elevations, etc.

3. INSTALLATION OF THE WORK

Examine the site and all the drawings before proceeding with the layout and installation of this work. Verify all door swings and clearances to cabinets, etc. before locating switch and outlet boxes. Locate conduits, boxes, etc., essentially as shown on the drawings, but in exact layout determined on the job to suit actual conditions. Locate work so it does not interfere with access to service for any equipment. Confer and cooperate with other trades on the job so all parts will be installed in proper relationship. Precise location of parts to coordinate with other work is the responsibility of the Contractor.

The Contractor is responsible for correct size and location of chases, slots, and openings required by him and will be liable for any cutting or patching made necessary by his failure to make proper arrangements in this respect.

Install all work in a neat and workmanlike manner by workmen thoroughly qualified in the trade or duties they are to perform. Rough work will be rejected.

Maintain a competent full-time superintendent on the job to oversee and coordinate work with other trades, receive instructions from the Architect/Engineer, make layout of work to suit actual conditions, and to satisfy requirements of the drawings, specifications, and good workmanship.

4. SHOP DRAWINGS

Submit shop drawings, wiring diagrams, and descriptive literature on all equipment furnished in this contract.

Make submittals as soon as practicable after the signing of the contract. Shipment shall not be released until drawings and literature have been finally approved.

Shop drawings shall be checked by the Contractor for shape, dimensions, and details of attachment to the construction before submittal. Submitted shop drawings will be presumed to have been so checked by the Contractor.

The literature shall be complete, giving materials, gauges, weights, finishes, etc., and in case of lighting fixtures, shall include ETL photometric curves.

5. CLEANING & RUBBISH

During the work, keep the premises clear of unnecessary accumulation of debris.

6. CONTRACTOR'S WARRANTY

All work shall be warrantied to be free of defects and to function properly for one year from the date of HUD 100% final inspection and report HUD 5379. Defects appearing within the warranty period shall be repaired to the satisfaction of the Architect.

The warranty shall not obligate the Contractor for failure resulting from accident or from improper operation or care on the part of the Owner.

Plug or cap open ends of conduits to prevent the entrance of dirt and/or moisture during construction. Protect boxes, panel enclosures, etc. against the entrance of mortar, plaster, moisture, and other foreign material during construction, and thoroughly clean these spaces before pulling wires, and again, if necessary, before installing covers of fronts.

On completion of the work, remove all rubbish and debris resulting from the work or the work of subcontractors and dispose of same.

ENDO OF SECTION 16010

SECTION 16100 BASIC ELECTRICAL MATERIALS & METHODS

1. UL LABEL

All materials, devices, etc. installed under this contract shall bear the UL label, or be UL listed as applicable except those specified items not covered by existing UL Standards.

2. OUTLET BOXES

Provide an NEC construction galvanized steel or plastic box securely anchored to the structure at each outlet. Minimum sizes shall be 4" octagon for fixtures, 4 x 2-1/8 x 1-7/8 for single devices. Outlet box sizing shall comply with NEC volume and conductor bending radius requirements.

Provide fixture studs, plaster, and extension rings, etc. as required.
Set boxes squarely with faces flush to finished surfaces.
Remove knockouts only as required.

3. WIRE & WIRING

Use NEC Type TW, THW, THWN, or THHN, 600V thermoplastic covered solid copper wire except as otherwise noted. Size wires as noted or as required by code for current protective device rating, except no wire smaller than #12 may be used in lighting and power circuits. #8 and larger wire shall be stranded. Stranded conductors shall be used for control wiring and for special system wiring as specified. Non-metallic sheathed cable may be used without conduits and with plastic boxes for branch circuit wiring in stud walls or attic areas where not exposed to view. Non-metallic sheathed cable shall have continuous ground.

Conductors that extend into fixture housings, motor terminal boxes, and similar locations shall be of a type that is code approved for the temperature and other conditions at the location.

Color code all wires for phase identification per NEC Section 210-5. Use white neutrals of same size as phase wires and green ground wires sized per NEC Sections 250-94 and 250-95. Use colored bands of tape on exposed ends of conductor insulation to code feeders.

4. WIRING DEVICES (S)

Circle F, General Electric, Leviton, Pass & Seymour, or Slater specification grade as listed herein.

Listing is by basic number only. Prefixes, suffixes, etc. to indicate color and special features called for are not included. Binding screws or wire lock terminals are optional. Unless necessarily otherwise, switch handles and receptacle bodies shall be ivory.

Equivalent interchangeable unit devices may be used only where construction space limitations preclude the use of standard devices.

Special devices noted on the drawings shall conform to this schedule of grade and style.

	F	GE	L	P&S	SL
Switches					
SP toggle	3421	5961	5521	5021	720
3W toggle	3423	5963	5523	5023	723
4W toggle	3424	5964	5524	5024	724

SP glow 1281 57501 15AC1 720

Receptacles

Duplex convenience* 2515 4090 5014 5250 3200

30A 125/250V grnd. 3632 4132 5371 3853 3864

50A 125/250V grnd. 3652 4152 5206 3855 3894

*Convenience outlets shall be 15A duplex unless noted otherwise.

5. WIRING DEVICES - POWER & CONTROL WIRING (S)

Devices listed are based on Square D Standard Duty catalog numbers. Equivalent Allen Bradley, Cutler-Hammer, Clark, Furnas, General Electric or Westinghouse devices may be used.

END OF SECTION 16100

UNITED STATES OF AMERICA,

V.

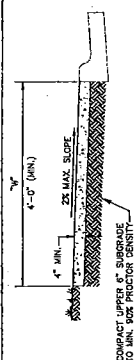
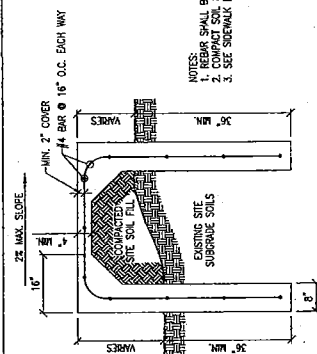
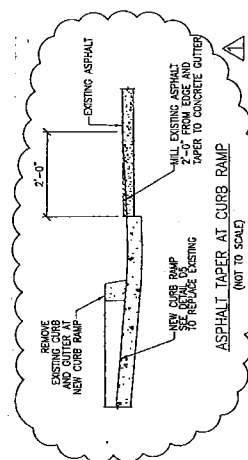
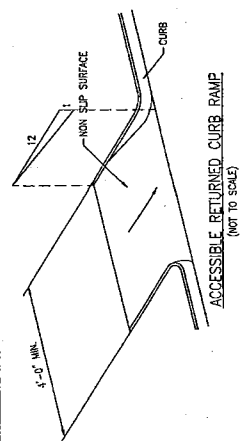
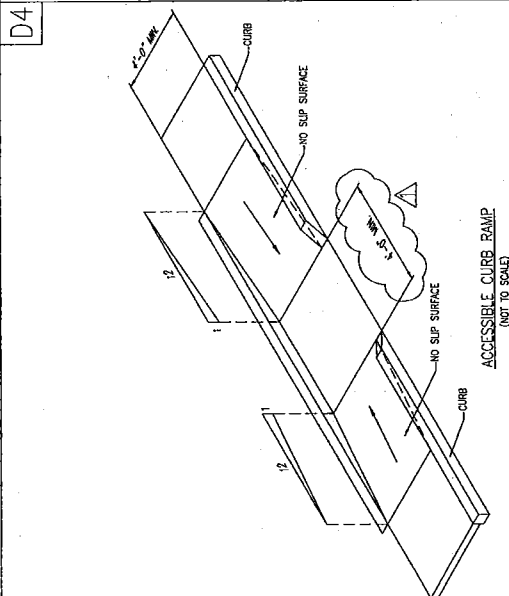
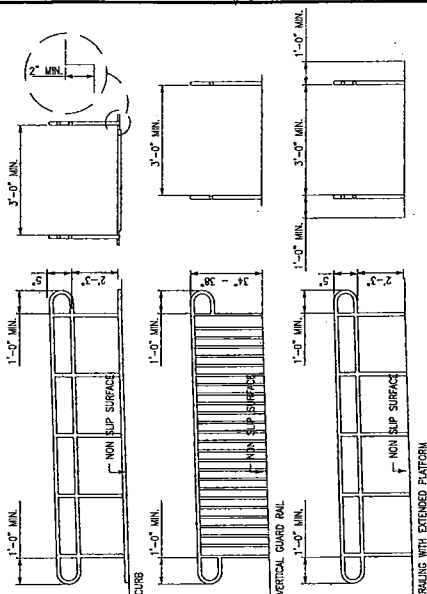
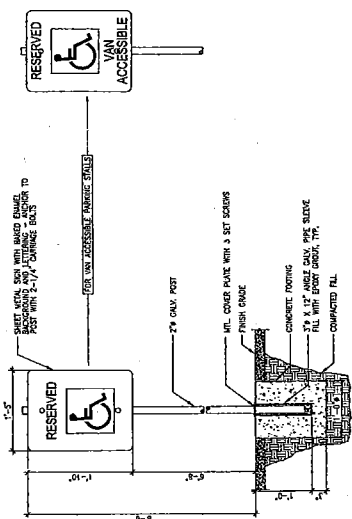
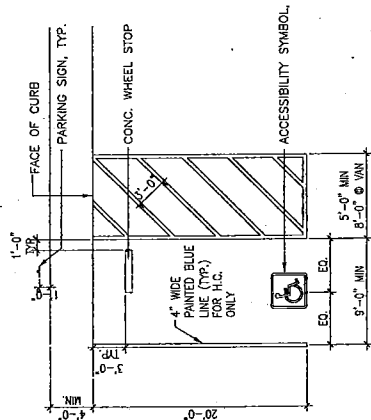
LNL ASSOCIATES/ARCHITECTS, P.A., et al.,

Defendants.

Civil Action No.: 02-2167-JWL

**APPENDIX C TO CONSENT
DECREE**

ACCESSIBILITY RETROFITS TO PUBLIC AND COMMON USE AREAS AT RIDGEVIEW



TYPICAL SIDEWALK

NOTES:

1. TYPE 1 JOINTS SHALL BE PLACED "N" CENTERS.
2. TYPE THREE JOINTS SHALL BE PLACED AT 250' CENTERS AND WHERE WALK ABUTS EXISTING CONCRETE.
3. ALL CONCRETE SHALL BE FC-4046-4K.
4. NO UTILITY SERVICE BOXES, WATER BOXES, CLEANOUTS ETC. TO BE PLACED IN THE SIDEWALK.
5. PROVIDE BROKEN FINISH FOR ALL SURFACES WITH HAND TROWELED EDGES AND JOINTS.
6. PROVIDE CURE AND SEAL COMPOUND TO CONCRETE SURFACE.

UNITED STATES DISTRICT COURT
DISTRICT OF KANSAS

UNITED STATES OF AMERICA,

Plaintiff,

v.

LNL ASSOCIATES/ARCHITECTS, P.A., *et al.*,

Defendants.

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Civil Action No.: 02-2167-JWL

APPENDIX D TO CONSENT
DECREE

ACCESSIBILITY RETROFITS TO
ALL GROUND FLOOR UNITS
AT RIDGEVIEW

CLARIFICATIONS REQUESTED AND ASSUMPTIONS TO BE VERIFIED

BOTH PROJECTS

1. 3'-0"x 6'8" doors were used as new accessible doors to comply with 32" clear width. In some cases, 2'-10" doors theoretically provide a 32" clear opening, but the installation tolerance is 1/8", and not always achievable.
2. Doors were specified as pre-hung flush panel, typical to apartment projects of this type.
3. Hardware was described as lever handled to "match existing", since no hardware schedule was shown on the project documents.
4. While 36" bathroom access clearance was requested in Ridgeview, the actual clearance is 42 3/4" in order to allow for a 3'-0" door and frame for the bathroom.
5. Where closet walls were relocated, new 3'-0" door were added for closets, for ease of use and ease of construction.
6. Some floor covering may need to be replaced, but the documents used did not specify the existing floor covering. Therefore it is to match existing to the satisfaction of the owner.
7. Cut sheets are attached to the construction documents as recommendations for new material.

RIDGEVIEW

1. Bathroom 1 in the two-bedroom unit requirements called for a shorter toilet to provide 30" clear space in front of it. However, a shorter toilet is not available which would provide the clearance, and therefore, the documents show the bathroom wall relocated to satisfy the requirement.

INDIAN MEADOWS

1. No thermostats need to be moved.
2. Both bathrooms in the three bedroom unit are to have their toilets relocated after verification on site.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

ONE BEDROOM UNIT

Immediate Work

1. Description

- a. Widen access to bathroom, bedroom and bedroom closet.
- b. Add vanity knee space in bathroom.
- c. Relocate one outlet in bedroom and one in living room to make accessible.
- d. Relocate thermostat to make it accessible.

2. Demolition

- a. Pull back floor covering in bathroom, bedroom and living room to preserve for re-use.
- b. Remove doors to bedroom and bathroom (2 doors) and remove from site.
- c. Enlarge openings to prepare for new 3'0"x6'8" doors, and remove diagonal wall in bathroom to form a wider hallway as shown on drawings. Remove ceiling gypsum board where new wall is shown.
- d. Make new openings for new locations of thermostat and electrical outlets.
- e. Remove bathroom vanity, basin and top to allow for new accessible sink cabinet.

3. New Construction

- a. Supply and install new pre-hung 3'0"x6'8" wood doors and wood frames in enlarged openings. Doors to have clear opening of 34".
- b. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
- c. Fill in wall and ceiling where second bathroom door was removed with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint. New hallway to be 3'-6 3/4" clear finished width.
- d. Supply and install removable vanity/counter top in bathroom. Re-use existing basin and countertop and re-install to wall surface and plumbing. Add 3/4" veneer plywood bracket supports and plinth on blocking and ledger boards under counter top, attached to wall. Supply and install removable vanity in 3/4" veneer plywood, finished to match existing wood trim and constructed as shown on drawings. Supply and install pipes protection shield between bracket supports.
- e. Replace gypsum board over new reinforcing areas with 5/8" moisture-resistant gypsum board, secured with non-corrosive screws at 6" centers. Tape joints and sand smooth ready for paint.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

4. New Accessories

- a. Replace vanity sink faucet with new lever-handled mixer faucet.

5. New Finishes

- a. Paint walls where disturbed by work to match existing wall colors and paint.
- b. Re-lay carpet in bedroom and living room and re-lay bathroom floor covering. Replace bathroom floor covering at owner's discretion. The bathroom floor covering is to continue to under sink cabinet in order that a finished floor surface exists when vanity cabinet is removed.

6. New Electrical Work

- a. Raise one duplex outlet and box in bedroom and one in living room to 15" above finished floor level. Replace wiring with new at outlet to form single piece back to panel or to next appliance. Do not splice wire to extend outlet box. Patch existing hole, tape joints, sand smooth and paint to match existing wall.
- b. Lower thermostat in living room to 54" above finished floor level. Provide new wire to new location back to panel and furnace equipment. Do not splice wire. Patch existing hole, tape joints, sand smooth and paint to match existing wall.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

TWO BEDROOM UNIT

Immediate Work

1. Description

- a. Widen access to one bathroom, bedrooms and one bedroom closet.
- b. Relocate one outlet in bedrooms and one in living room to make accessible.
- c. Relocate thermostat to make it accessible.

2. Demolition

- a. Pull back floor covering in bathroom, bedrooms and living room to preserve for re-use.
- b. Remove doors to closets, bedrooms and bathroom and remove from site.
- c. Remove linen door and retain for reuse. Re-install in revised wall.
- d. Enlarge openings to prepare for new 3'0"x6'8" doors, and remove wall in linen closet and bathroom 1 to form a wider hallway and wider bathroom as shown on drawings. (Note: Changing out the toilet fixture will not provide adequate clearance for wheel chair access.) Remove ceiling gypsum board where new wall is shown.
- e. Make new openings for new locations of thermostat and electrical outlets.

3. New Construction

- a. Supply and install new pre-hung 3'0"x6'8" wood doors and wood frames in enlarged openings. Doors to have clear opening of 34".
- b. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
- c. Construct new walls and fill in ceilings where walls were removed, with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint. New hallway to be 3'-6 3/4" clear finished width.

4. New Finishes

- a. Paint walls where disturbed by work to match existing wall colors and paint.
- b. Re-lay carpet in bedroom and living room and re-lay and patch bathroom floor covering. Replace bathroom floor covering at owner's discretion.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

5. New Electrical Work

- a. Raise one duplex outlet and box in each bedroom and one in living room to 15" above finished floor level. Replace wiring with new at outlet to form single piece back to panel or to next appliance. Do not splice wire to extend outlet box. Patch existing hole, tape joints, sand smooth and paint to match existing wall.
- b. Lower thermostat in living room to 54" above finished floor level. Provide new wire to new location back to panel and furnace equipment. Do not splice wire. Patch existing hole, tape joints, sand smooth and paint to match existing wall.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

TWO BEDROOM H/C UNIT

Immediate Work

1 Description

- a. Widen access to bedroom and bedroom closet.
- b. Add vanity knee space in bathrooms.

2 Demolition

- a. Pull back floor covering in bedroom and hallway to preserve for re-use.
- b. Remove doors to closet and bedroom and remove from site.
- c. Remove door to linen closet and retain for reuse. Re-install in revised wall.
- d. Enlarge openings to prepare for new 3'0"x6'8" doors, and remove wall in linen closet to form a wider hallway as shown on drawings. Remove ceiling gypsum board where new wall is shown.
- e. Remove bathroom vanity, basin and top to allow for new accessible sink cabinet.

3 New Construction

- a. Supply and install new pre-hung 3'0"x6'8" wood doors and wood frames in enlarged openings. Doors to have clear opening of 34".
- b. Door hardware to match existing but to be lever handles in lieu of knobs. Privacy latches to be push-button type which release with opening action of lever handle.
- c. Construct new wall and fill in ceiling where linen door was removed with wood studs and 5/8" gypsum board to match existing. Tape joints and sand smooth ready for paint. New hallway to be 3'-6 3/4" clear finished width.
- d. Supply and install removable vanity/counter top in bathrooms. Re-use existing basin and countertop and re-install to wall surface and plumbing. Add 3/4" veneer plywood bracket supports and plinth on blocking and ledger boards under counter top, attached to wall. Supply and install removable vanity in 3/4" veneer plywood, finished to match existing wood trim and constructed as shown on drawings. Supply and install pipes protection shield between bracket supports.

4 New Accessories

- a. Replace vanity sink faucet with new lever-handled mixer faucet.

RIDGEVIEW APARTMENTS INTERIOR RETROFIT

DESCRIPTION OF WORK

5 New Finishes

- a. Paint walls where disturbed by work to match existing wall colors and paint.
- b. Re-lay and patch carpet in bedroom and hallway and re-lay and patch bathroom floor covering. Replace bathroom floor covering at owner's discretion. The bathroom floor covering is to continue to under sink cabinet in order that a finished floor surface exists when vanity cabinet is removed.

B N I M
BIRMINGHAM
100 WALL STREET, SUITE 2000
NEW YORK, NY 10038
212 512 1000

**RIDGEVIEW
APARTMENTS**
197TH STREET AND LENOX
OLATHE, KANSAS

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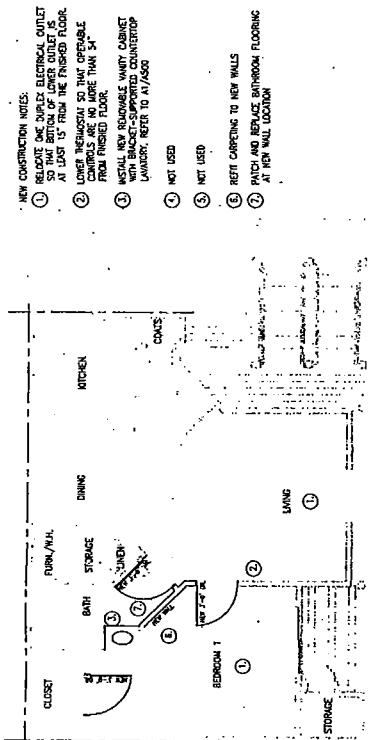
**BRIDGEVIEW
APARTMENTS**
1119TH STREET AND LENNOX

DOLATHE, KANSAS

[illegible][illegible]

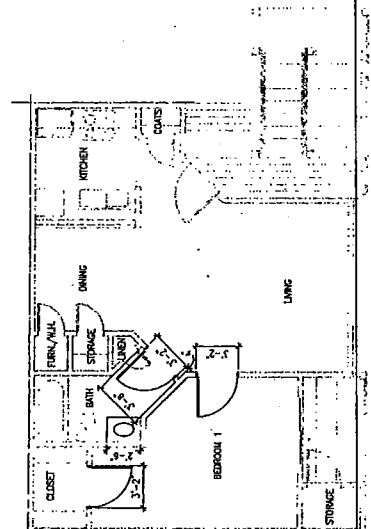
ONE BEDROOM
TYPICAL UNIT
FLOOR PLANS

1aA100

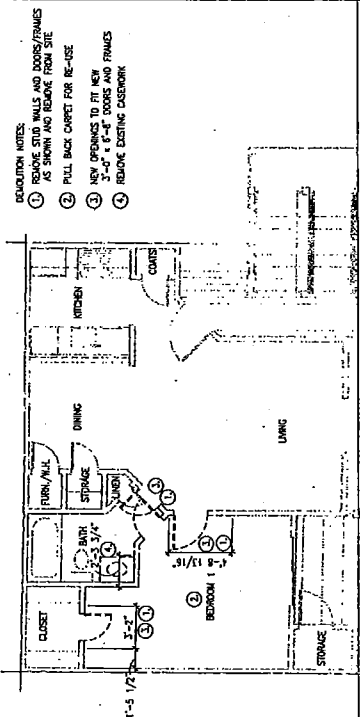


- NEW CONSTRUCTION NOTES:**
1. **RELIEVE ONE DUPLEX ELECTRICAL OUTLET TO TOP OF OTHER OUTLET IS AT LEAST 1" FROM THE FINISHED FLOOR.**
 2. **LOWER THERMOSTAT SO THAT OPERABLE CONTROLS ARE NO MORE THAN 54" FROM FINISHED FLOOR.**
 3. **INSTALL NEW REMOVABLE WARMY CABINET WITH BRACKET-SUPPORTED COUNTERTOP LAUNDRY. REFER TO A1/500**
 4. **NOT USED**
 5. **NOT USED**
 6. **REFIT CARPETING TO NEW WALLS**
 7. **PATCH AND REPLACE BATHROOM FLOORING AT NEW WALL LOCATION**

G8 Typical Floor Plan - 1 Bedroom Unit (618 SQ.FT.) - New Construction Notes



Typical Floor Plan - 1 Bedroom Unit (618 SQ.FT.) - New Construction



- DEMOLITION NOTES:**
1. REMOVE STUD WALLS AND DOORS/FRAMES AS SHOWN AND REMOVE FROM SITE
 2. PULL BACK CARPET FOR RE-USE
 3. NEW OPENINGS TO FIT NEW 3'-0" x 6'-8" DOORS AND FRAMES
 4. REMOVE EXISTING CASEWORK

A1	Typical Floor Plan - 1 Bedroom Unit (618 SQ.FT.) - Demolition
----	---

100 WEST 10TH STREET, SUITE 200, CHICAGO, ILL. 60605 (312) 329-1000

B N I M

**RIDGEVIEW
APARTMENTS**

110TH STREET AND LENOX

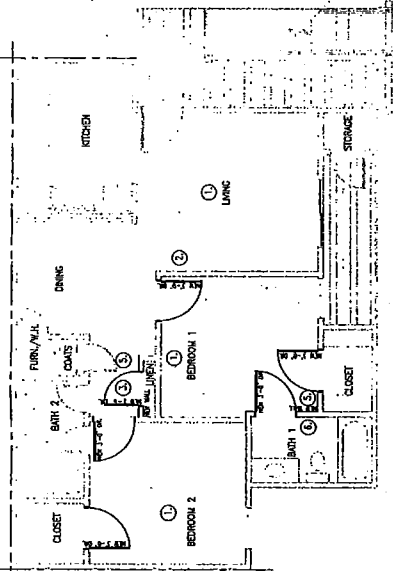
CHICAGO, ILL. 60643

PROJECT NO.	11 DECEMBER 1988	PROJECT NO.	11 DECEMBER 1988
PREPARED BY	BNIM	DATE	11 DECEMBER 1988
CHECKED BY	BNIM	DATE	11 DECEMBER 1988
DESIGNED BY	BNIM	DATE	11 DECEMBER 1988
CONSTRUCTED BY	BNIM	DATE	11 DECEMBER 1988

**TWO BEDROOM
TYPICAL UNIT
FLOOR PLANS**

2aA100

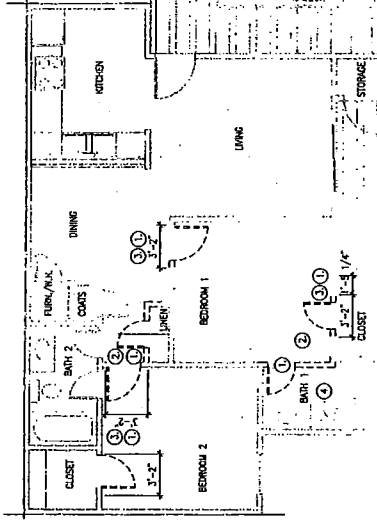
- NEW CONSTRUCTION NOTES:
1. RELOCATE ONE DUPLEX ELECTRICAL OUTLET TO THE BOTTOM OF LOWER OUTLET IS AT LEAST 15" FROM THE FINISHED FLOOR.
 2. PROVIDE REMAINING SO THAT OPPOSITE CORNER OF LOWER OUTLET IS AT LEAST 15" FROM FINISHED FLOOR.
 3. REUSE EXISTING LINEN CLOSET DOOR.
 4. NOT USED.
 5. SET CARPETING TO NEW WALLS.
 6. PATCH AND REPLACE BEDROOM FLOORING AT NEW WALL LOCATION.



G8 Typical Floor Plan - 2 Bedroom Unit (804 SQ.FT.) - New Construction Notes

1/8" = 1'-0"

- DEMOLITION NOTES:
1. REMOVE WALLS AND DOORS/FRAMES AS SHOWN AND RELocate FROM SITE.
 2. RETAIN LINEN CLOSET FOR RE-USE.
 3. PULL BACK CARPET FOR RE-USE.
 4. NEW OPENINGS TO FIT NEW 3'-0" x 6'-6" DOORS AND FRAMES.
 5. REMOVE EXISTING OUTLET FROM WALLS WHERE LOCATED ONLY FROM FRONT OF BUILDING TO OPPOSITE WALL.



G1 Not Used

RE

1/8" = 1'-0"

A1 Typical Plan - 2 Bedroom Unit (804 SQ.FT.) - Demolition

1/8" = 1'-0"

A8 Typical Floor Plan - 2 Bedroom Unit (804 SQ.FT.) - New Construction

1/8" = 1'-0"

150 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

B N I M

**RIDGEVIEW
APARTMENTS**

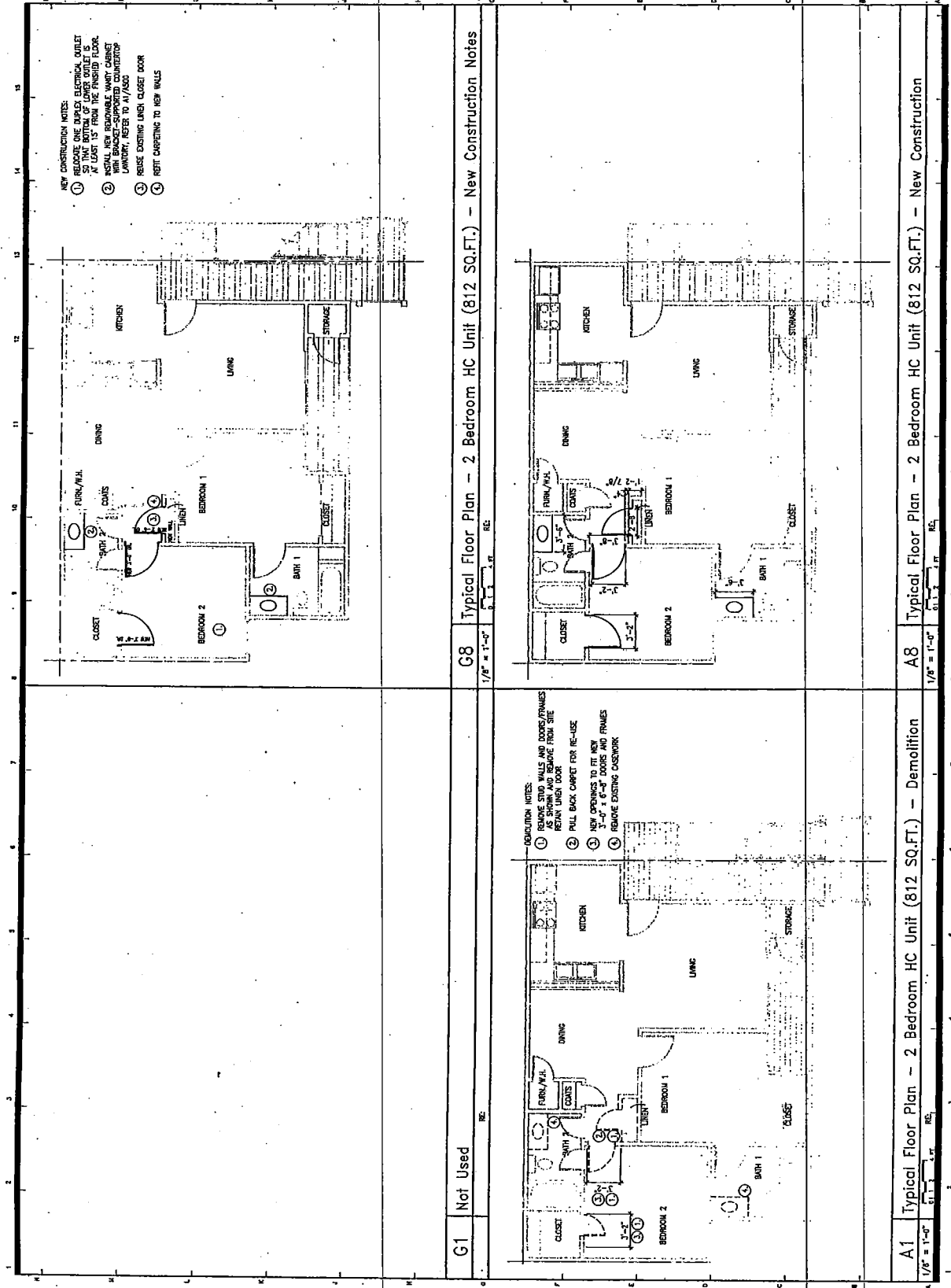
CLAYTON, MISSISSIPPI

ARCHITECT
1501 17TH AVE. S.W.
ALBUQUERQUE, NM 87104
505-263-1111

Project No.	1318
Project Name	1318 Ridgeview
Client	1318 Ridgeview
Architect	1318 Ridgeview
Engineer	1318 Ridgeview
Interior Designer	1318 Ridgeview
Contractor	1318 Ridgeview
Construction Manager	1318 Ridgeview
General Contractor	1318 Ridgeview
Subcontractor	1318 Ridgeview
Supplier	1318 Ridgeview
Manufacturer	1318 Ridgeview
Distributor	1318 Ridgeview
Installer	1318 Ridgeview
Maintainer	1318 Ridgeview
Operator	1318 Ridgeview
Owner	1318 Ridgeview

**TWO BEDROOM HC
TYPICAL UNIT
FLOOR PLANS**

2bA100



C8 Typical Floor Plan - 2 Bedroom HC Unit (812 SQ.FT.) - New Construction

A8 Typical Floor Plan - 2 Bedroom HC Unit (812 SQ.FT.) - New Construction

G1 Not Used

A1 Typical Floor Plan - 2 Bedroom HC Unit (812 SQ.FT.) - Demolition

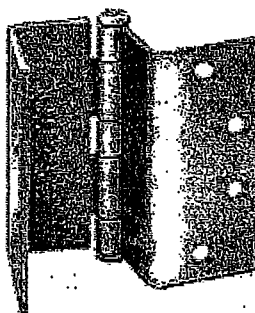

[Policies & Information](#)
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[Hinge Information](#)
[Hinge History](#)
[About](#)

store categories

Swing Clear Butt Hinge, Steel

DOOR HINGES

[Plain Bearing Butt Hinges](#)
[Ball Bearing Butt Hinges](#)
[Spring Hinges - Double Acting Hinges](#)
[Pivot Hinges - Pivot Sets](#)
[Screen Door Hinges](#)
[Wide Throw Hinges - Swing Clear Hinges](#)
[Special Purpose Hinges](#)
[Invisible Hinges - Soss Hinge](#)
[Door Hardware](#)



Description:

- Hinges are reversible for left or right swinging doors.
- Use swing clear hinges wherever doors are required to be completely clear of the openings (when opened).
- Improves clearance for wheelchairs, carts, etc.
- For medium weight doors of low frequency.
- Steel base material, full mortise hinge.
- For a 1-3/8" door use the 3-1/2" hinge and for a 4" door use the 4" hinge.
- Hinges come with wood screws and machine screws.

CABINET DOOR HINGES

[Semi-Concealed Cabinet Hinges](#)
[Surface Mounted Cabinet Hinges](#)
[Overlay Hinges - Inset Hinges](#)
[Demountable Hinges](#)
[European Hinges - Blum Hinges](#)
[Pivot Hinges for Cabinets](#)
[Pivot Door Slides - Flipper Door Slides](#)
[Entertainment Center Cabinet Hinges](#)
[Small Ball Tip Cabinet Hinge](#)
[Tray Hinges - Cabinet Catches](#)

Finishes:

- 633 (US4) satin brass plated
- 632 (US3) bright brass plated
- 600 (USP) primed for painting
- 652 (US26D) satin chrome plated
- 613 (US10B) oil rubbed bronze plated

[Click Here for Installation Diagram](#)

(This document will open in a new window)

FURNITURE HINGES

[Table Hinges - Shelf Hinges](#)
[Butler Tray Table Hinge](#)
[Finial Tipped Hinges](#)
[Desk Hinges - Sewing Machine Hinges](#)
[Concealed Hinges - Hidden Hinges](#)
[Special Purpose Furniture Hinges](#)
[Lift-off Hinges - Loose Joint Hinges](#)
[Glass Door Hinges](#)

GATE HINGES

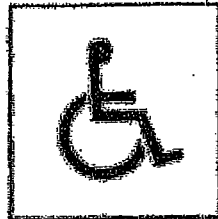
[Pivot Hinges](#)
[Spring Hinges](#)
[Strap Hinges](#)
[Tee Hinges](#)
[Bolt Hook & Strap Hinges](#)
[Swimming Pool Gate Hinges](#)
[Gate Latches & Handles](#)
[Other Gate Hardware](#)

OTHER HINGES

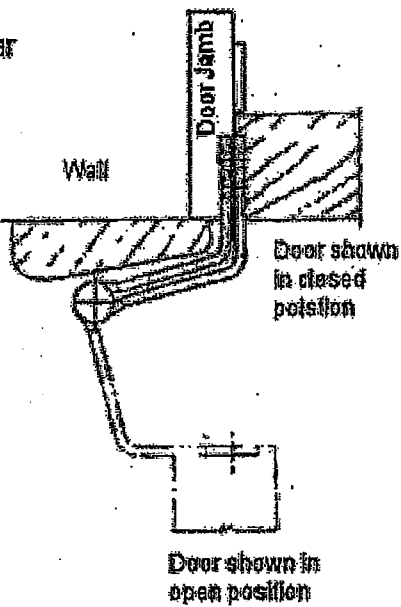
[Miniature Hinges - Craft Hinges](#)
[Small Butt Hinges - Small Brass Hinges](#)
[Piano Hinges - Continuous Hinges](#)
[Soss Hinges - Invisible Hinges](#)
[Strap Hinge - Dummy Strap Hinges](#)
[Non Mortise Hinges - Bi-Fold Door Hinges](#)
[Tee Hinges](#)
[Chest Hinges - Box Hinges](#)

Finish	Origin	Size	SKU	Unit	Price	Qty	
600 (USP)	Domestic	3 1/2	219338	Each	\$19.97	1	add to cart
632 (US3)	Domestic	3 1/2	219342	Each	\$29.97	1	add to cart
633 (US4)	Domestic	3 1/2	219343	Each	\$21.97	1	add to cart
652 (US26D)	Domestic	3-1/2	234080	Each	\$20.97	1	add to cart
613 (US10B)	Domestic	3-1/2	234084	Each	\$28.97	1	add to cart
600 (USP)	Domestic	4	219339	Each	\$20.97	1	add to cart
632 (US3)	Domestic	4	219341	Each	\$26.97	1	add to cart
633 (US4)	Domestic	4	219345	Each	\$22.97	1	add to cart
652 (US26D)	Domestic	4	234082	Each	\$19.97	1	add to cart
613 (US10B)	Domestic	4	234086	Each	\$29.97	1	add to cart

HardwareSource Install
Diagram for Swing Clear
Hinges



This hinge lets a door
swing clear of the door
opening to allow for
maximum access.





LAV SHIELD®
LAVATORY PROTECTIVE ENCLOSURES

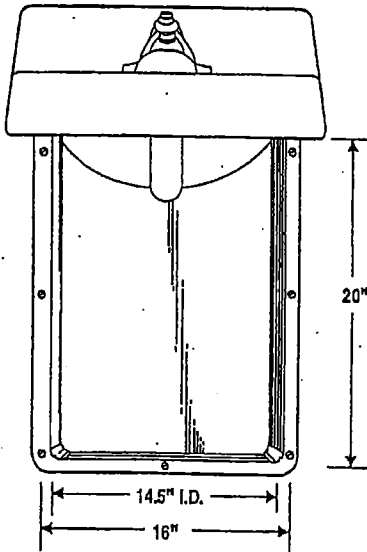
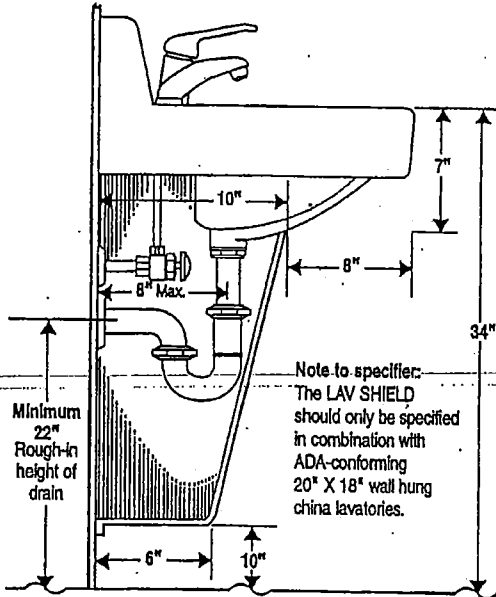
Submittal Sheet

SINK PIPE PROTECTION

1 of 1

ADA-compliant undersink protection

TRUEBRO®
MAKING AMERICA ACCESSIBLE



U.S. and Canadian patents:
D373,412, D372,077, D384,732,
D393,700, D390,643, 79,064, 79,063

TRUEBRO®
MAKING AMERICA ACCESSIBLE

TRUEBRO, Inc., 7 Main Street, Ellington, CT 06029
(860) 875-2868 • (800) 340-5969 • FAX: (860) 872-0300
e-mail: info@truebro.com • Internet: http://www.truebro.com



Lav Shield Classified by
Underwriters Laboratories Inc.®
In accordance with
ADA article 4.19.4 22FF



General Description:

LAV SHIELD® rigid enclosure is dimensionally engineered to satisfy ADA requirements, design aesthetics and mechanical cooperation. LAV SHIELD conceals electronic faucet connections, mixing valves, trap primers and instantaneous hot water heaters, while allowing wheelchair accessibility under lavatories and eliminating vandalism. Available in the standard model for field fit applications or may be ordered as a factory pre-cut which closely follows the underside contours of the lavatory specified.

*Lavatory "tough in" should be considered to allow mounting room for water heater behind enclosure. Contact TRUEBRO for specifications.

Material	Rigid high-impact, stain-resistant, rigid PVC
Nominal Wall	.093"
Finish	Fine halrcell
UV Protection	Will not fade or discolor
Durability	Virtually indestructible
Fasteners	Seven (7) wall anchors provided
Color	China white
Compatibility	Fits all ADA-conforming 20"x18" wall hung lavatories
Paintability	Apply acrylic enamel or Latex
UL Listing	In accordance with ADA Article 4.19.4
Flammability	UL-94 V-0, 5VA ASTM D-635-91 4 (ATB) 2.1 (AEB)
Bacterial/Fungal Resistance	ASTM G21 and G22/Result 0

☐ LAV SHIELD Model #2018 — Standard (to be Field-Fit)

Lav Shield factory pre-cut available:

- | | |
|---|---|
| <input type="checkbox"/> Model #2018-AS-C — Am.Std. Comrade | <input type="checkbox"/> Model #2018-EL-M — Eljer Mayburne |
| <input type="checkbox"/> Model #2018-AS-D — Am.Std. Declyn | <input type="checkbox"/> Model #2018-EL-S — Eljer Signature |
| <input type="checkbox"/> Model #2018-AS-L — Am.Std. Lucerne | <input type="checkbox"/> Model #2018-EL-U — Eljer Bucknell |
| <input type="checkbox"/> Model #2018-AS-M — Am.Std. Muro | <input type="checkbox"/> Model #2018-GR-P — Gerber Plymouth |
| <input type="checkbox"/> Model #2018-AS-R — Am.Std. Roxalyn | <input type="checkbox"/> Model #2018-KO-C — Kohler Chesapeake |
| <input type="checkbox"/> Model #2018-BR-W — Briggs Whitman | <input type="checkbox"/> Model #2018-KO-G — Kohler Greenwich |
| <input type="checkbox"/> Model #2018-CR-H — Crane Harwich | <input type="checkbox"/> Model #2018-KO-H — Kohler Hudson |
| <input type="checkbox"/> Model #2018-CR-N — Crane Norwich | <input type="checkbox"/> Model #2018-KO-K — Kohler Kingston |
| <input type="checkbox"/> Model #2018-CR-W — Crane Westmont | <input type="checkbox"/> Model #2018-MA-H — Mansfield 2018 HB |
| <input type="checkbox"/> Model #2018-CR-Y — Crane Yorkshire | <input type="checkbox"/> Model #2018-MA-NS — Mansfield 2018 HB-NS |
| <input type="checkbox"/> Model #2018-EL-B — Eljer Blair | <input type="checkbox"/> Model #2018-TO-L — Toto LT307 |
| <input type="checkbox"/> Model #2018-EL-D — Eljer Delwyn | |


☐ Tamper-resistant Screws (Torx Head Screws)

☐ Special Pre-cut Request:

Job/Location _____

Designer _____

TRUEBRO reserves the right to make product and material changes at any time without notice.
3/03




DELTA

FAUCET COMPANY

Beautifully Engineered.™

[Site Map](#)
[Online Catalog](#)
[About Delta](#)
[Where to Buy](#)
[Remodeling Center](#)
[Customer Service](#)
[Trade Services](#)



Online Catalog

Your Results:

Here are the Delta® faucets that best meet your personal preferences.

The manufacturer's list price (U.S. dollars) is shown for comparison only. The actual retail price may be lower than the price shown.

Online Catalog

Build Your Own Faucet

Matching Accessories

Handle Options

Featured Products

New Products

Visit Build Your Own Faucet to put together just the right combination of faucet style, handle and finish options to complete your kitchen, bathroom or bar.

Model Number:

540-WFMPD
\$ 138.30

Price:



Chrome, single handle, Innovations® lavatory faucet with a chrome lever handle and a metal pop-up. Three hole installation required.

• Maintenance & Installation Sheets

• E-Mail Sheet to a Friend



• Where to Buy

• Return to Search Results

• Build Your Own Faucet

Coordinating Faucets

At Delta, each faucet has its own match. The following are faucets that best complement the one you've selected above.



NEW FAUCET 151

CLEANING AND CARE

Care should be given to the cleaning of this product. Although it finish is self-cleaning, it can be damaged by harsh abrasives or polish. To clean, simply wipe gently with a damp cloth and buff dry with a soft towel.

WARNING:

Scrubbing Bubbles® Bathroom Cleaner and Lysol® Bath Tub and Tile Cleaner must not be used on the clear knob handles and levers. Use of these cleaners can result in cracked or severely damaged handles. If scrubbing paste gets onto the handles, immediately wipe them dry with a soft cloth.

LIFETIME FAUCET AND FINISH LIMITED WARRANTY

All parts and finishes of the Delta faucet are warranted by Delta Faucet Company for the life of the faucet. This warranty is limited to the faucet and its finish. It does not cover the handle, handle screws, or any other parts or finishes. Delta Faucet Company's warranty is limited to the faucet and its finish. It does not cover the handle, handle screws, or any other parts or finishes. Delta Faucet Company's warranty is limited to the faucet and its finish. It does not cover the handle, handle screws, or any other parts or finishes.

This warranty is void if the faucet is used for commercial purposes and is not installed in a residential home. Delta Faucet Company's warranty is limited to the faucet and its finish. It does not cover the handle, handle screws, or any other parts or finishes.

LIQUIDAZION E CUIDADO DE SU LLAVE

El agua y la humedad de la llave de la Delta pueden dañar el acabado de la llave. Aunque el acabado es auto-limpiable, puede ser dañado por abrasivos duros o pulido. Para limpiar, simplemente frotar con un trapo húmedo y luego secarlo con un trapo suave.

ADVERTENCIA

No se puede usar Scrubbing Bubbles® Bathroom Cleaner o Lysol® Bath Tub and Tile Cleaner en las manijas transparentes reducidas y de palanca. El uso de estas productos pueden resultar en manijas rajadas o seriamente dañadas. Si estos productos caen sobre la manija, séquela inmediatamente con una toalla suave.

GARANZIA LIMITATA DI POR VIDA DE LA LLAVE SU ACABADO

Todos los acabados de la llave de la Delta están garantizados por la vida de la llave. Esta garantía es limitada a la llave y su acabado. No cubre el manillar, los tornillos del manillar, u otros componentes. La garantía de Delta Faucet Company es limitada a la llave y su acabado. No cubre el manillar, los tornillos del manillar, u otros componentes.

Esta garantía es nula si la llave se utiliza para fines comerciales y no está instalada en un hogar residencial. La garantía de Delta Faucet Company es limitada a la llave y su acabado. No cubre el manillar, los tornillos del manillar, u otros componentes.

INSTRUCTIONS DE NETTOYAGE

Il est recommandé de nettoyer régulièrement ce produit. Bien qu'il soit auto-nettoyant, il peut être endommagé par des abrasifs agressifs ou du polissage. Pour nettoyer, frottez simplement avec un chiffon humide et séchez à l'aide d'un chiffon doux.

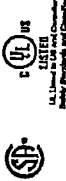
AVERTISSEMENT:

N'employez pas le nettoyant pour salle de bain Scrubbing Bubbles® et le nettoyant pour baignoire et douche Lysol® sur les poignées transparentes et les leviers à bascule. L'utilisation de ces produits peut provoquer des fissures ou des dommages graves. Si ces produits tombent sur la poignée, essuyez immédiatement avec un chiffon doux.

GARANZIA A VITA LIMITATA DEI ROBINETTI E DI LEI FINI

Tutti i finimenti dei rubinetti Delta sono garantiti per tutta la vita del rubinetto. Questa garanzia è limitata al rubinetto e ai suoi finimenti. Non copre il maniglia, i viti del maniglia, o altri componenti. La garanzia di Delta Faucet Company è limitata al rubinetto e ai suoi finimenti. Non copre il maniglia, i viti del maniglia, o altri componenti.

Questa garanzia è nulla se il rubinetto viene utilizzato per scopi commerciali e non è installato in una casa residenziale. La garanzia di Delta Faucet Company è limitata al rubinetto e ai suoi finimenti. Non copre il maniglia, i viti del maniglia, o altri componenti.



Models/Modelos/Modelos
540, 541, 542, 544
Series/Series/Seria

Write purchased model number here.
Escriba aquí el número del modelo comprado.
Écrivez le numéro de modèle ici.

You may need/usted puede necesitar/
Articles dont vous pouvez avoir besoin:



For easy installation of your Delta faucet you will need:

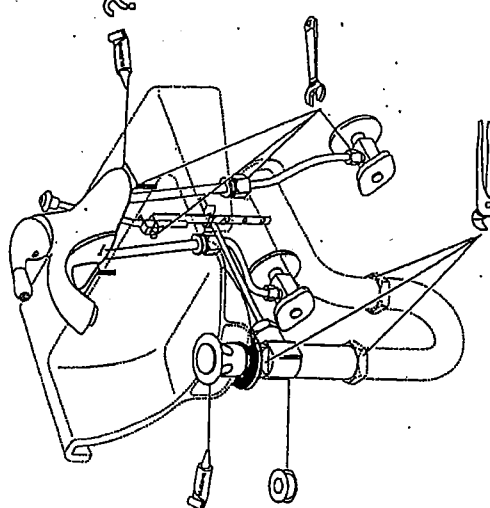
- To READ ALL the instructions completely before beginning.
- To READ ALL warnings, care, and maintenance information.
- To purchase the correct water supply hook-up.

Para instalación fácil de su llave Delta usted necesitará:

- LEER TODAS las instrucciones completamente antes de empezar.
- LEER TODOS los avisos, cuidados, e información de mantenimiento.
- Comprar las conexiones correctas para el suministro de agua.

Pour installer votre robinet Delta facilement, vous devez:

- LIRE TOUTES les instructions avant de débiter.
- LIRE TOUS les avertissements ainsi que toutes les instructions de nettoyage et d'entretien.
- Acheter le bon nécessaire de raccordement.

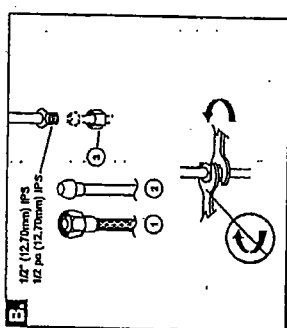
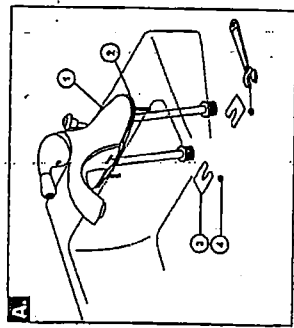


US Pat. 4,043,359, 3,788,895, 4,502,900, 4,583,430, 4,008,347, 4,210,715, 4,765,365, 4,894,332

7/1/00 Rev.B

NEW FAUCET
2 of 4

1

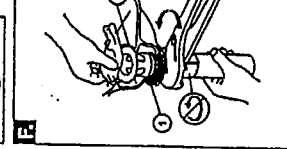
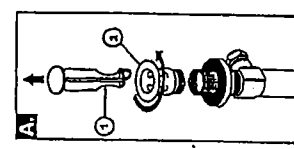


A. Position faucet (1) and gasket (2) on sink. Secure with washers (3) and nuts (4).
B. Make connections to water lines. Use 1/2 inch IPS tubing connections (1), or use the supplied coupling nut (2) with 3/8" O.D. tubing. Note: Be careful when bending the copper tubing. Kinked tubes will void the warranty.

A. Coloque la llave (1) y el anillo (2) en el lavamanos. Cíelos con arandelas (3) y tuercas (4).
B. Haga las conexiones a las líneas de agua. Use conexiones IPS de 1/2" (12.7mm) IPS. Use el acople de uniones (2) con tuberías de 3/8" O.D. (9.5mm) O.D. Use las tuberías de cobre cuando se doblan. No aplastar las tuberías. Las tuberías dobladas anularán la garantía.

A. Place the rubber (1) at the joint (2) on the sink. Fix the rubber (1) with the screws (4).
B. Reconnect the rubber (1) to the water lines. Use the supplied 1/2 inch IPS tubing connections (1), or use the supplied coupling nut (2) with 3/8" O.D. tubing. Note: Be careful when bending the copper tubing. Kinked tubes will void the warranty.

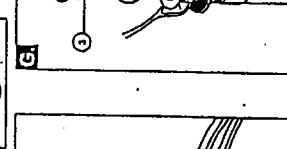
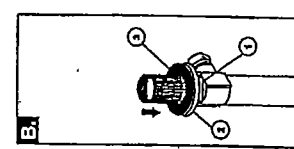
2



A. Remove stopper (1) and flange (2).
B. Screw nut (1) all the way down. Push washer (2) and gasket (3) down.
C. Remove tailpiece (1) from body (2), add tailpiece (3), replace tailpiece.

A. Quite el tapón (1) y el rebordo (2).
B. Atornille la tuerca (1) completamente hasta abajo. Empuje la arandela (2) y el anillo (3) hacia abajo.
C. Quite el tubo de caña (1) del cuerpo (2), añada el tubo de caña (3), coloque otra vez el tubo de caña.

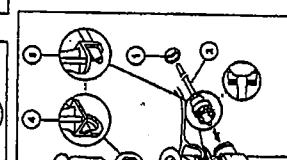
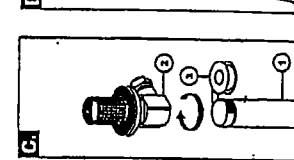
A. Enlevez le bordon (1) et le collette (2).
B. Serrez l'écrou (1) pour le faire descendre complètement. Pousser la rondelle (2) et le joint (3) vers le bas.
C. Enlevez le raccord droit de vidange (1) du corps (2), appliquez le raccord droit de vidange (3), puis remettez le raccord droit en place.



A. Apply silicone to underside of flange (1). Insert body (2) into sink. Screw flange (1) into body (2).
B. Tighten nut/washer/gasket (1), dress off excess silicone (2). DO NOT TWIST.

A. Apliquez l' silicone à la partie inférieure du rebordo (1). Insérez le corps (2) en el lavamanos. Atornille el rebordo (1) en el cuerpo (2).
B. Hágalo el anillo (1) debe de estar de frente a la tuerca. Hágalo el anillo (2) hacia abajo firmemente y sujételo en alto. NO LO GIRE.

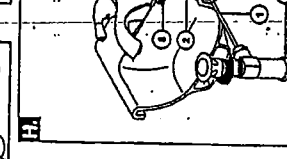
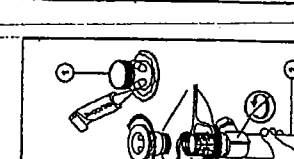
A. Appliquez du composé à la silicone sous la flange (1). Introduisez le corps (2) dans le lavamanos. Serrez la rondelle (1) contre le corps (2).
B. Le joint (1) doit être devant la tuerca. Serrez l'écrou (2) vers le bas fermement et maintenez-le en place. PRENEZ GARDE DE LE TORDRE.



A. Remove plastic nut (1). Install horizontal rod (2) and stopper (3) as removable (4) or non-removable (5). Head lighter photo nut (1).
B. Attach horizontal rod (1) to stop (2) using clip (3). Insert nut (4), tighten screw (5). Connect assembly to drain (6).

A. Quite la tuerca del pivote (1). Instale la barra horizontal (2) y el tapón (3) como desmontable (4) o fijo (5). Apriete a mano el tuca del pivote (1).
B. Una la barra horizontal (1) a la barra chata (2) utilizando el gancho (3). Instale la tuerca de anillo (4), apriete el tornillo (5). Conecte el ensamblaje al desagüe (6).

A. Enlevez l'écrou du pivot (1). Installez la barre horizontale (2) et le bouchon (3) de démontable (4) ou non démontable (5). Serrez l'écrou (1) du pivot à la main.
B. Fixez la barre horizontale (1) au battant plat (2) utilisant le crochet (3). Installez la bague de anillo (4) et serrez la vis (5). Fixez l'ensemble au drain (6).

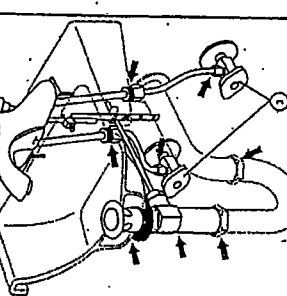
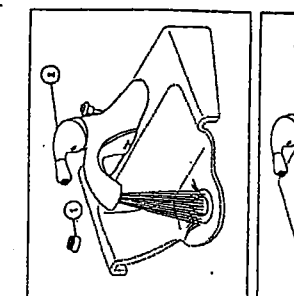


A. Remove faucet (1) and turn faucet handle (2) all the way on. Turn on hot and cold water supplies (3) and flush water lines for one minute. Important: This flushes away any debris that could damage the internal parts. Check for leaks. Re-lighten if necessary, but do not over-tighten.

A. Quite el alfiler (1) y gire la manija de la llave (2) hacia arriba. Abra los suministros de agua caliente y fría (3) y deje que el agua corra por las líneas por un minuto. Importante: Esto limpia cualquier escombros que pudieran causar daño a las partes internas. Examine todas las conexiones donde se unen las flechas por si hay filtraciones de agua. Apriete de nuevo si es necesario, pero no apriete demasiado.

A. Retirez l'écrou (1) et tournez le poignée (2) du haut vers le bas. Ouvrez les robinets d'eau chaude et froide (3), puis laissez l'eau couler une minute. Important: Il faut laisser s'écouler l'eau pour éliminer les débris qui pourraient abîmer les éléments internes du robinet. Vérifiez toutes les connexions où les tuyaux se rejoignent. Serrer les raccords si nécessaire, mais ne pas serrer trop fort.

3

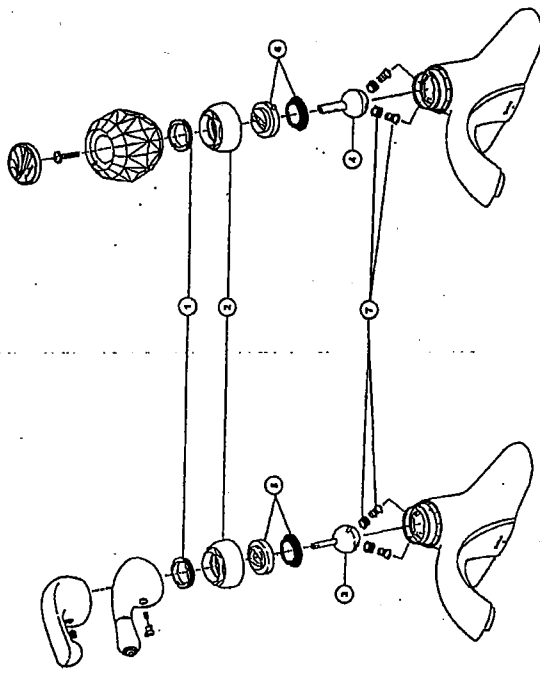


A. Retire faucet (1) and turn faucet handle (2) all the way on. Turn on hot and cold water supplies (3) and flush water lines for one minute. Important: This flushes away any debris that could damage the internal parts. Check for leaks. Re-lighten if necessary, but do not over-tighten.

A. Quite el alfiler (1) y gire la manija de la llave (2) hacia arriba. Abra los suministros de agua caliente y fría (3) y deje que el agua corra por las líneas por un minuto. Importante: Esto limpia cualquier escombros que pudieran causar daño a las partes internas. Examine todas las conexiones donde se unen las flechas por si hay filtraciones de agua. Apriete de nuevo si es necesario, pero no apriete demasiado.

A. Retirez l'écrou (1) et tournez le poignée (2) du haut vers le bas. Ouvrez les robinets d'eau chaude et froide (3), puis laissez l'eau couler une minute. Important: Il faut laisser s'écouler l'eau pour éliminer les débris qui pourraient abîmer les éléments internes du robinet. Vérifiez toutes les connexions où les tuyaux se rejoignent. Serrer les raccords si nécessaire, mais ne pas serrer trop fort.

NEW FAUCET
 2 x 1 A



Maintenance

Important: Never tighten cap assembly (2) to stop a leak, always adjust ring (1). Always shut off water supplies and partially increase adjusting ring before attempting to tighten cap assembly. Always inspect cap assembly HAND TIGHT, then tighten adjusting ring.

If faucet leaks from under handle—Remove handle and tighten adjusting ring (1).

If leak persists—SHUT OFF WATER SUPPLIES—Replace Ball Assembly—Repair Kit (3) RP70 or (4) RP212 and Cam Assembly—Repair Kit (5) RP81 or (6) RP188.

If faucet leaks from spout outlet—SHUT OFF WATER SUPPLIES—Replace Ball Assembly—Repair Kit (3) RP70 or (4) RP212 and Seats and Springs—Repair Kit (7) RP488.

Monteinstalación

Importante: Nunca apriete el ensamblaje de la tapa (2) para parar una filtración de agua, siempre ajuste el anillo de ajuste (1). Siempre cierre las suministros de agua y parcialmente incremente el anillo de ajuste antes de intentar de quitar el ensamblaje de la tapa. Siempre inspeccione el ensamblaje de la tapa APRETIANDO A MANO, y luego apriete el anillo de ajuste.

Si la filtración persiste—CIERRE LOS SUMINISTROS DE AGUA—Reemplazo el Ensamblaje de la Bola—Equipo de Reparación (3) RP70 o (4) RP212 y el Ensamblaje de la Llave—Equipo de Reparación (5) RP81 o (6) RP188.

Si la filtración persiste desde la salida del tubo—CIERRE LOS SUMINISTROS DE AGUA—Reemplazo el Ensamblaje de la Bola—Equipo de Reparación (3) RP70 o (4) RP212 y Asientos y Resortes—Equipo de Reparación (7) RP488.

Entretien

Important: Ne serrez jamais l'ensemble de la capuche (2) pour arrêter une fuite, toujours ajustez l'anneau d'ajustage (1). Coupez toujours l'eau, puis augmentez partiellement l'anneau d'ajustage avant d'essayer de retirer l'ensemble de la capuche. Toujours serrer l'ensemble à LA MAIN, puis serrez l'anneau d'ajustage.

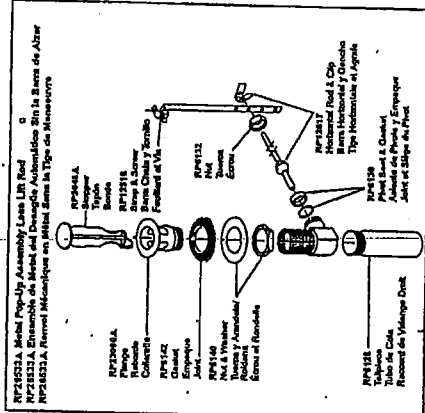
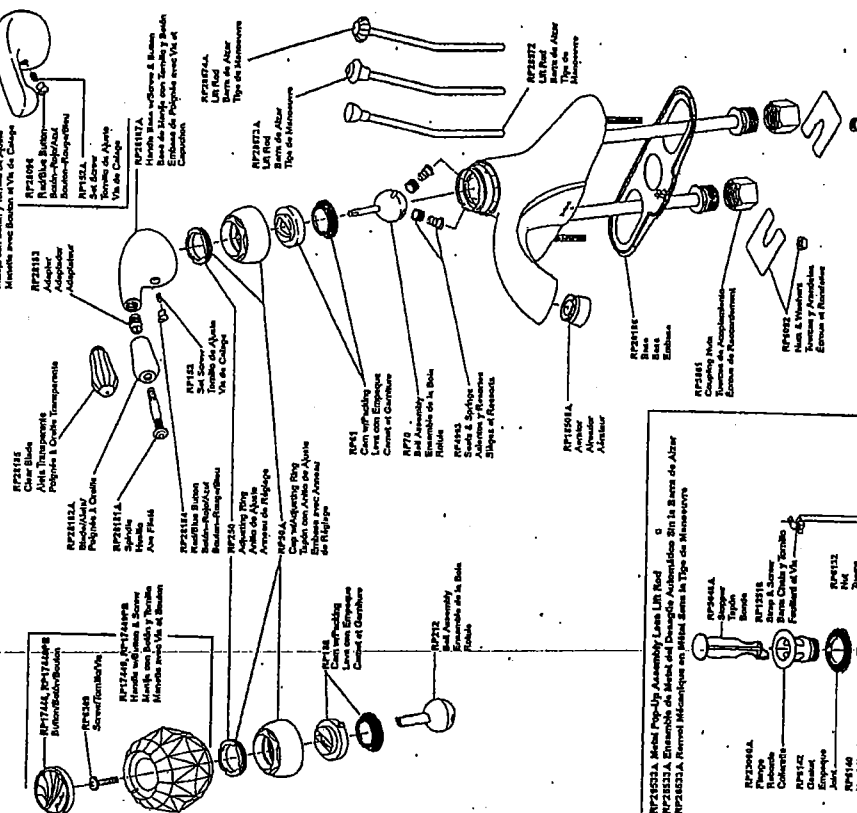
Le robinet fuit par le dessous de la poignée—Retirez la poignée et serrez l'anneau d'ajustage (1).

Si la fuite persiste—COUPEZ L'EAU—Remplacez la balle (3) de réparation (3) RP70 ou (4) RP212 et la came (5) de réparation (5) RP81 ou (6) RP188.

Le robinet fuit par la sortie du bec—COUPEZ L'EAU—Remplacez la balle (3) de réparation (3) RP70 ou (4) RP212, ainsi que les sièges et les ressorts (7) de réparation (7) RP488.

540, 541, 542, 544 Series/Series/Serie

A Specify Finish/Especifique el Acabado/Précisez le Fini



NEW FAUCET
4 of 4

SEARCH
PRODUCT

by category

OR by style

OR by collection

OR

AGOS

AGOS

American Standard

Dream and Create

Plan and Design

Buy

Customer Service

Pressroom

Trade

Product Details

Cadet Round Front Toilet

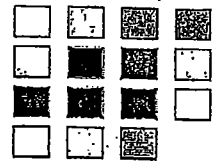
- » Vitreous china
- » 1.6 GPF
- » Round front siphon action jetted bowl
- » Fully glazed 2" trapway
- » Large 11" x 9" water surface area
- » Close coupled tank with raised lip detail on tank cover
- » Color matched trip lever
- » Speed connect tank/bowl coupling system
- » Sanitary bar on bowl
- » Two color matched bolt caps
- » 100% factory flush tested

■ Add to My Wishlist

[Click here to view toilet seats.](#)



Express Delivery Colors:



Other Available Colors:

None

[Click here to learn more at American Standard colors](#) note that colors shown on website will appear slightly than the actual product color

[Click here to learn more at Express Delivery.](#)

TOILET OPTION A

AquaForce
PERFORMANCE

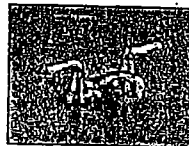
Complementary Products:



Cadet Pedestal Sink



Cadet 5' x 32" Bathtub



Colony Soft Two-Handle Bathroom Faucet with Lever Handles

Downloadable F



Spec Sheet



Installation Notes



Repair Parts

[Download .pdf viewer: Adobe.com.](#)

[Download CAD draw](#)

- » Cadet RF 10" Round
- » Cadet RF 12" Round
- » Cadet RF 14" Round

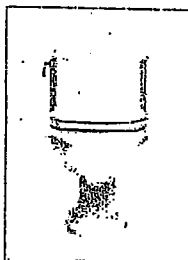
Similar Products:



Cadet One-Piece
Elongated Toilet



Repertoire Two-
Piece Elongated
Toilet



Antiquity One-
Piece Elongated
Toilet

Product Specifics:

Main Fixture

■ **2798.010** Cadet RF 10" Rough
254mm (10") rough toilet complete, less seat.
List Price: \$232-313, based on color

■ **2798.012** Cadet RF 12" Rough
305mm (12") rough toilet complete, less seat.
List Price: \$171-242, based on color

■ **2798.014** Cadet RF 14" Rough
356mm (14") rough toilet complete, less seat.
List Price: \$248-340, based on color

Add. Fixture/Component Parts

■ **047192-XXX0A** Trip Lever
List Price: \$11-19, based on color

■ **3454.016** Ravenna Round Front Bowl
With bolt caps
List Price: \$98-138, based on color

■ **4112.016** Tank
Complete with coupling components and tank trim.
List Price: \$73-104, based on color

■ **4112.300** Tank
Complete with chrome all-metal trip lever.
List Price: \$83-113, based on color

■ **4114.016** Tank
Complete with coupling components and tank trim.
List Price: \$150-202, based on color

■ **735083-400** Tank Cover
List Price: \$40-55, based on color

■ **738690-XXX0A** Enfield Front & Angle Mount Trip Lever (specify finish)
Available in Polished Chrome (002), Polished Nickel (008), Blackened Bronze (068), Polished Brass (099) and Satin (295).
List Price: \$40-60, based on finish

TOILET OPTION A
2.12

GERBER.

VITREOUS CHINA

TOILET OPTION B

1 of 2

TOILET
21-700

AQUA SAVER™ Round Front Toilet

10" Rough-in

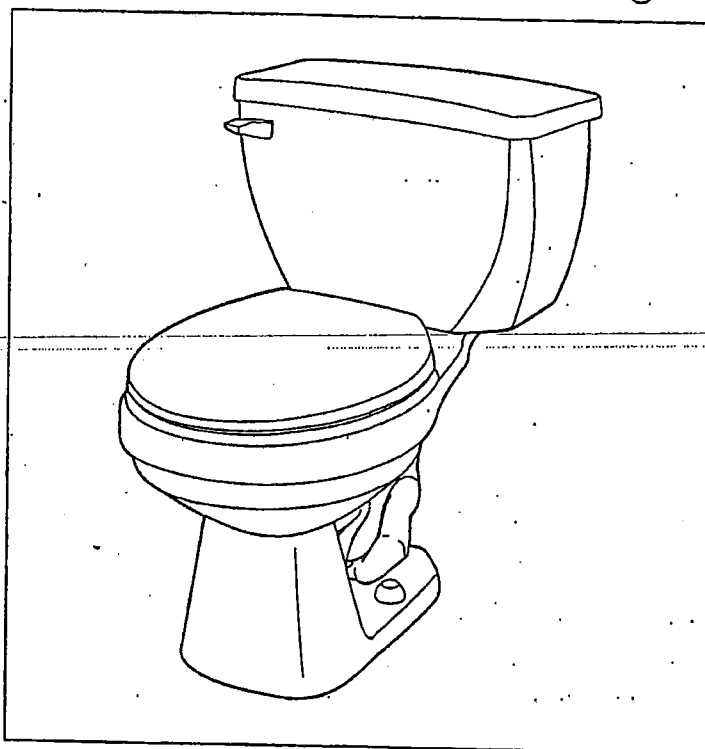


Features:

- Low Consumption 1.6 gpf (6.0 Lpf)
- Round Front Bowl
- Elite Tank
- Anti-Siphon Gerber Pilot Fill Valve
- Tamper-Resistant Volume Rated Flapper
- Reverse Trap
- Front Jet Flushing Action
- Front Tank Lever
- All Standard Colors
- 2 Bolt Caps

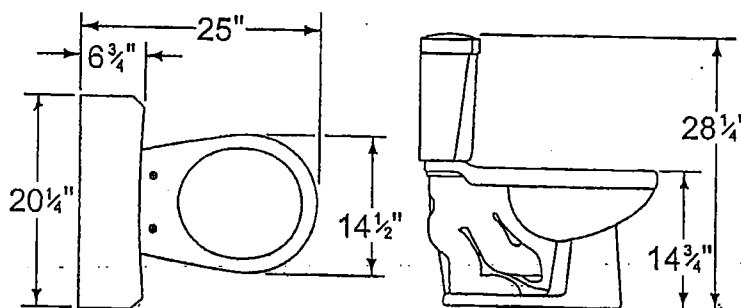
Dimensions:

Height	28 1/4"
Width	20 1/4"
Depth	25"
Rough-in	10"
Water Surface from Rim	5 3/4"
Trapway (min)	1 3/4"
Water Surface	9 1/2" x 8"
Water Seal	2 3/4"
Shipping Weight	86 lbs



Specifications: Bowl — #21-752 Round Front
Seat not included

Tank — #28-795



THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6Lpf) OR LESS.



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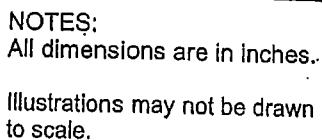
Because we are committed to continual product improvement, specifications are subject to change without notice.

Printed in the U.S.A. 3/03

2 of 2

21-700

Round Front, 10" Rough-in
(Bowl 21-752 with Tank 28-795)



Dimensions of fixtures are nominal and may vary within the range of tolerances established by ASME Standard A 112.19.2.

THIS FIXTURE QUALIFIES ACCORDING TO ASME
TEST PROCEDURES AS A LOW CONSUMPTION
WATER CLOSET WITH AN AVERAGE CONSUMP-
TION OF 1.6 gpf (6 Lpf) OR LESS.

GERBER.

VITREOUS CHINA

TOILET
21-702

AQUA SAVER™ Round Front Toilet

12" Rough-in

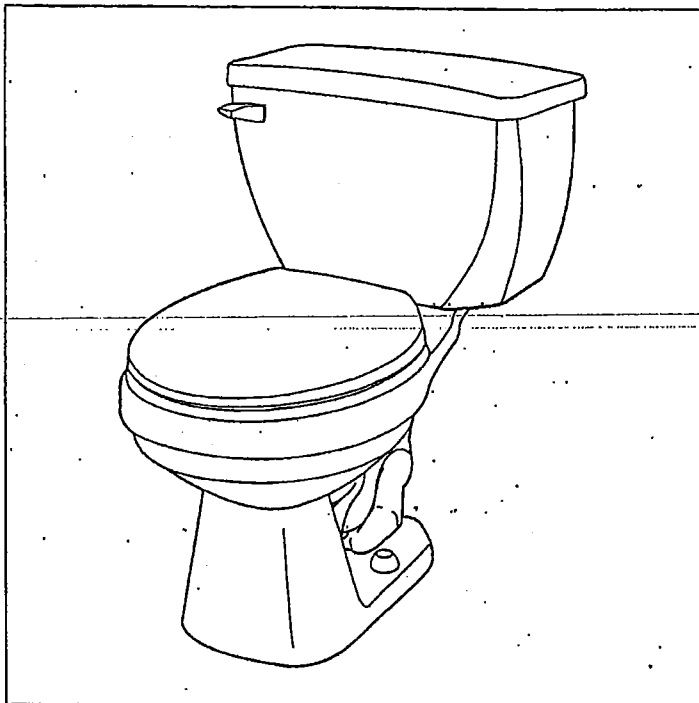


Features:

- Low Consumption 1.6 gpf (6.0 Lpf)
- Round Front Bowl
- Elite Tank
- Anti-Siphon Gerber Pilot Fill Valve
- Tamper-Resistant Volume Rated Flapper
- Reverse Trap
- Front Jet Flushing Action
- Front Tank Lever
- All Standard Colors
- 2 Bolt Caps

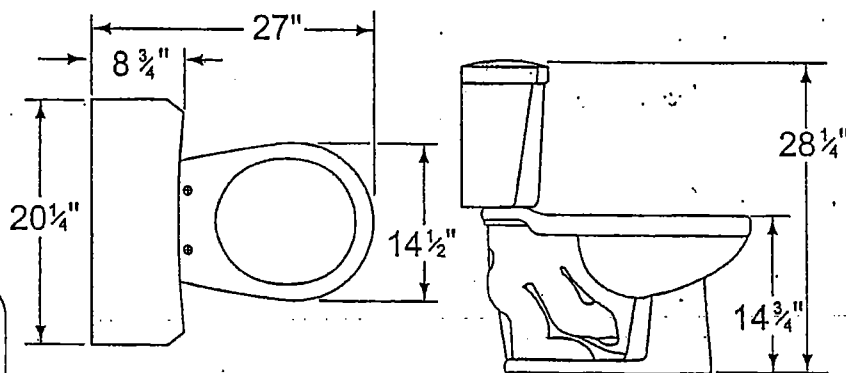
Dimensions:

Height	28 1/4"
Width	20 1/4"
Depth	27"
Rough-in	12"
Water Surface from Rim	5 3/4"
Trapway (min)	1 3/4"
Water Surface	9 1/2" x 8"
Water Seal	2 3/4"
Shipping Weight	90 lbs



Specifications: Bowl — #21-752 Round Front
Seat not included

Tank — #28-790



THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6 Lpf) OR LESS.



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21-702

Round Front, 12" Rough-in
(Bowl 21-752 with Tank 28-790)



IMPORTANT:
Dimensions of fixtures are nominal and may vary within the range of tolerances established by ASME Standard A 112.19.2.

THIS FIXTURE QUALIFIES ACCORDING TO ASME TEST PROCEDURES AS A LOW CONSUMPTION WATER CLOSET WITH AN AVERAGE CONSUMPTION OF 1.6 gpf (6 Lpf) OR LESS.

SECTION 02070 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes demolition and removal of the following:
 - 1. Demolition and removal of selected interior portions of a building.
 - 2. Repair procedures for selective demolition operations.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- C. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, all demolished materials shall be removed from Project site.

1.4 SUBMITTALS

- A. Proposed Control Measures: Submit statement or drawing that indicates the measures proposed for use, proposed locations, and proposed time frame for their operation. Identify options if proposed measures are later determined to be inadequate. Include measures for the following:
 - 1. Dust control.
 - 2. Noise control.
- B. Schedule of Selective Demolition Activities: Indicate detailed sequence of selective demolition and removal work, with starting and ending dates for each activity, interruption of utility services, use of elevator and stairs, and locations of temporary partitions and means of egress.
- C. Pre-demolition Photographs or Videotape: Show existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.
- D. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.5 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.
- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.
- D. Pre-demolition Conference: Conduct conference at Project site.

1.6 PROJECT CONDITIONS

- A. Tenants will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Tenants will not be disrupted. Provide not less than 72 hours' notice to Landlord prior to commencement of work.
- B. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
 - 1. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from authorities having jurisdiction.
- C. Owner assumes no responsibility for condition of areas to be selectively demolished.
 - 1. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Owner or Owner's Representative. Hazardous materials will be removed under a separate contract.
- E. Storage or sale of removed items or materials on-site will not be permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

PART 2 - PRODUCTS

2.1 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
 - 1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 - 2. Use materials whose installed performance equals or surpasses that of existing materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.
- D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Owner.
- E. Engage a professional engineer to survey condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective demolition operations.

3.2 UTILITY SERVICES

- A. Existing Utilities: Maintain services indicated to remain and protect them against damage during selective demolition operations.
- B. Do not interrupt existing utilities serving occupied or operating facilities unless authorized in writing by the Owner. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to authorities having jurisdiction.
 - 1. Provide at least 72 hours' notice to Owner if shutdown of service is required during changeover.

3.3 PREPARATION

- A. Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with selective demolition operations.
- B. Conduct demolition operations and remove debris to ensure minimum interference with walkways, corridors, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct walkways, corridors, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- C. Conduct demolition operations to prevent injury to people and damage to adjacent facilities to remain. Ensure safe passage of people around selective demolition area.
 - 1. Erect temporary protection, such as walks, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 2. Protect walls, ceilings, floors, and other existing finish work that are to remain and are exposed during selective demolition operations.
 - 3. Cover and protect furniture, furnishings, and equipment that have not been removed.
- D. Temporary Partitions: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.

3.4 POLLUTION CONTROLS

- A. Dust Control: Use temporary enclosures, and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.
 - 1. Wet mop floors to eliminate tracked dirt and wipe down walls and doors of demolition enclosure. Vacuum carpeted areas.
- B. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- C. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of the Government and governing regulations.
 - 1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
 - 2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.

3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
- B. Existing Facilities: Comply with Owner's requirements for using and protecting stairs, walkways, building entries, and other building facilities during selective demolition operations.

3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
-
- C. Finishes: Restore exposed finishes of patched areas and extend restoration into adjoining construction in a manner that eliminates evidence of patching and refinishing.
- D. Floors and Walls: Where walls or partitions that are demolished extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish color, texture, and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Government's property and legally dispose of them.

END OF SECTION 02070

SECTION 06100 -CARPENTRY WORK

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Rough carpentry, finish carpentry, and millwork. Refer to Schedule located at the end of this Section.

1.02 RELATED WORK

- A. Section 09900 - Painting: Site finishing of finish carpentry and millwork.

1.03 REFERENCES

- A. MIL-L-1914-C Lumber and Plywood, Fire Retardant Treated.
- B. PS 1 - Construction; and Industrial Plywood.
- C. PS 20 - American Softwood Lumber Standard.
- D. PS 51 - Hardwood and Decorative Plywood.
- E. PS 58 - Basic Hardwood.
- F. NFPA - National Design Specification for Wood Construction.

1.04 QUALITY ASSURANCE

- A. Rough Carpentry Lumber: Visible grade stamp, of agency certified by National Forest Products Association (NFPA).
- B. When applicable, fabricate millwork and site made finish carpentry items in accordance with recommendations of Quality Standards of Architectural Woodwork Institute (AWI).

1.05 SUBMITTALS

- A. Submit samples of standard colors and patterns of finishes for vanity casework and wood trim.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver shop fabricated carpentry items until site conditions are adequate to receive the work. Protect items from weather while in transit.
- B. Store indoors, in ventilated areas with a constant, minimum temperature of 60 degrees F (16 degrees C), maximum relative humidity of 25 to 55 percent.

PART 2 PRODUCTS

2.01 ROUGH CARPENTRY MATERIALS

- A. Lumber: PS 20; graded in accordance with established Grading rules; maximum moisture content of 19%; 15% for southern pine; of following grades:
 - 1. Bearing Wall Stud Framing: "Stud" grade, Douglas Fir-Larch or Southern Pine: or Construction Grade, Hem-Fir.
 - 2. Non-Bearing Wall Stud Framing: "Stud" Grade S.P.F. is allowed.
 - 3. Joist-Rafters and lintels: #2 grade Douglas Fir-Larch or Southern Pine.
 - 4. Light Framing: Standard Grade.
- B. Plywood & Oxboard:
 - 1. Grab Bar Reinforcing Sheathing: 3/4" thick plywood 48/24 CD INT-APA 5 ply.
- C. Screw Fasteners: Non-corrosive as described on drawings.
- D. Adhesive: Of type recommended for use with floor sheathing.
- E. Bolts, Nuts, Washers, Lags, Pins: plain finish for interior locations.

2.02 FINISH CARPENTRY AND MILLWORK MATERIALS

- A. Softwood Lumber: PS 20; graded in accordance with the requirements of AWI; maximum moisture content of 6 percent for interior work and 15% for exterior work; of following species and grades:
 - Item:
 - Interior base: To match existing.
 - Door Casing: To match existing.
- B. Closet Shelving: Cut down existing or replace with wood particle board 3/4" with hardwood edge band - painted.
- C. Counter tops to be reused or shall be post-formed grade with backsplash and front edge integral.
- D. Adhesive: For shop fabricated work, adhesive: of type recommended by millwork manufacturer to suit application.
- E. Nails: Size and type to suit application.

2.02 HARDWARE

- A. Reuse existing or match existing with same manufacturer.

2.03 FABRICATION

- A. Fabricate millwork and finish carpentry items in accordance with recommendations of AWI. Shop fabricate items where possible.
- B. Fit shelves, doors and exposed edges with 3/8 inch thick matching hardwood edging. Use full length pieces only.
- C. Apply plastic laminate finish in full sheets consistent with manufactured sizes. Corners and joints to be hairline. Locate counter butt joints at least 2 feet from sink cut-outs.
- D. Cap exposed plastic laminate edges with material of same finish and pattern.
- E. Use exposed fastening devices or nails only when unavoidable.
- F. Shop assemble millwork and finish carpentry items for delivery to site in sizes easily handled and to ensure passage through building openings.

2.04 PREPARATION OF FINISH CARPENTRY ITEMS AND MILLWORK FOR FINISHING

- A. Sand work smooth and set exposed fasteners. Apply wood filler in exposed fastener indentations and leave ready to receive site applied finishes. On items to receive transparent finishes, use wood filler which matches surrounding surfaces and of types recommended for applied finishes.
- B. Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes, and other fixtures and fittings. Verify locations of cutouts from site dimensions.

PART 3 EXECUTION

3.01 FRAMING, FURRING, AND STRIPPING

- A. Erect wood framing, furring, stripping and nailing members true to lines and levels. Do not deviate from true alignment more than 1/8 inch.
- B. Space members as shown on drawings.
- C. Construct members of continuous pieces of longest possible lengths

3.02 INSTALLATION OF FINISH CARPENTRY ITEMS AND MILLWORK

- A. Set and secure millwork and finish carpentry items in place rigid, plumb, and square.
- B. Use purpose designed fixture attachments for mounted components.
- C. Use threaded steel concealed joint fasteners to align and secure adjoining counter tops.
- D. When necessary to cut and fit on site, make material with ample allowance for cutting. Provide trim for scribing and site cutting.
- E. Counter-sink semi-concealed anchorage devices used to wall mount components and conceal with solid plugs of species to match surrounding wood. Place flush with surrounding surfaces.

END OF SECTION 06100

SECTION 06220 - MILLWORK

PART 1 GENERAL

1.01 SHOP DRAWINGS

A. Samples: Submit drawings, showing cabinetry layout, details of construction, dimensions, materials and hardware schedule. Furnish samples of plastic laminate for color selection.

PART 2 PRODUCTS

2.01 MATERIALS

A. Solid Stock: Select Red Oak uniform in appearance and free from defects.

B. Plywood

1. Lumber core with rotary cut veneer on exposed face, including back side of hinged doors. Select for uniformity of grain and color appearance. Species: same select hardwood as solid stock.

2. PSI-66 Grade A Douglas Fir face veneer for shelves in cabinets. Oak edge-band on exposed edges.

C. Cores: CS-236-66, Type 1, Grade B, Class 2, wood particle board for plastic laminate coverings, except B - D interior grade plywood for vertical surfaces.

D. Hardwood: Tempered, meeting Fed. Spec. LLL-H-35, Type II.

F. Hardware: Reuse existing if acceptable to owner. If new is required, use Corbin, Ives, Stanley, Knape & Vogt and as specified or same type of Amerock or Lawrence. Finish: US26D for hinges and pulls, unless indicated otherwise.

Shelf Standards: K & V 83 with 177 supports (for exposed shelving).

Shelf Standard: K & V 255 with 256 clips.

Cabinet Hinges: Stanley 1544.

Cabinet Pulls: Stanley 4478

Cabinet Catches: Stanley 35

Drawer Slides: K & V 1300

2.02 FABRICATION

A. Fabricate to design and details indicated, and to AWI Custom Grade construction unless specified otherwise.

1. Cabinet Instructions: Full horizontal web-frame and vertical solid panel. Mill assemble as far as practicable, with surfaces smooth and free of machine marks. Make joints strong and free of shrinkage, opening or other deterioration. Miter outside and cope inside angles of rim. Back kerf trim 4" wide and wider. Glue joints under pressure where possible and glue-block concealed locations of shop assembled surfaces.
- B. Cabinet Ends, Bottoms, Partitions, Web-Frames and Shelves: 3/4" thick; concealed ends and bottom securely attached to adjoining cabinet walls or base and sleepers: 1/2" thick; backs: 1/4" plywood or hardboard.
- C. Cabinet Doors: Veneered 5-ply with hardboard or softwood block core or particle board core, and with matching edge strips, 3/4" thick.
- D. Shelves to be glued solid stock or plywood with solid edges. Mortise hinges for flush doors. Shelf standards surface mounted and of sufficient length to adjust shelves within 4" of top and bottom of cabinet.
- E. Install plastic laminate for counter tops and mounting boards according to manufacturer's directions with minimum of joints practicable. At edges extend face sheet over edge sheet before trimming.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install interior trim and millwork cabinets. Blind nail where possible, screw cabinets for ease of removal. Set finishing nails on exposed surfaces. Scribe, miter and join accurately and neatly. Filler and scribe strips to match species adjoining natural or stain finished wood. Shim counter-tops to be level within 1/16".

END OF SECTION 06220

SECTION 07900-JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preparing sealant substrate surfaces.
- B. Sealant and backing.

1.02 RELATED SECTIONS

- A. Section 06001: Sealants used in conjunction with Countertops and millwork.
- B. Section 15460: Sealants used in conjunction with plumbing fixtures.

1.03 REFERENCES

- A. ANSI/ASTM D1056 - Flexible Cellular Materials - Sponge or Expanded Rubber.
- B. ANSI/ASTM D1565 - Flexible Cellular Materials - Vinyl Chloride Polymers and Copolymers.
- C. ASTM C790 - Use of Latex Sealing Compounds.
- D. FS TT-S-00230 - Sealing Compound: Elastomeric Type Single Component.
- E. FS TT-S-001543 - Sealing Compound, Silicone Rubber Base.
- F. SWI (Sealing and Water-proofers Institute) - Sealant and Caulking Guide Specification.

1.04 SUBMITTALS

- A. Submit product data indicating sealant chemical characteristics, performance criteria, limitations, and color availability.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Maintain temperature and humidity recommended by the sealant manufacturer during and after installation.

PART 2 PRODUCTS

2.01 SEALANTS

- A. Silicone Sealant: FS TT-S01543, Class A, low modulus type; color; as selected; manufactured by Dow Corning, or General Electric.

2.02 ACCESSORIES

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.

- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work.

3.02 PREPARATION

- A. Clean and prime joints in accordance with manufacturer's instructions.
- B. Remove loose materials and foreign matter which might impair adhesion of sealant.
- C. Protect elements surrounding the work of this Section from damage or disfiguration.

3.03 INSTALLATION

- A. Install sealant in accordance with manufacturer's instructions.
- B. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- C. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- D. Tool joints concave.

3.04 CLEANING AND REPAIRING

- A. Clean adjacent soiled surfaces.
- B. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.05 PROTECTION OF FINISHED WORK

- A. Protect sealants until cured.

3.06 SCHEDULE

<u>Location</u>	<u>Type</u>
A. Bathtub/Countertops/ Plumbing Fixtures	Silicone, Fungus Resistant

END OF SECTION 0790

SECTION 8210 - WOOD DOORS & FRAMES

PART 1 GENERAL

1.01 WORK INCLUDED

A. Wood doors.

1.02 RELATED WORK

A. Section 06100 - Carpentry.

B. Section 09900 - Painting: Site finishing doors.

1.03 REFERENCES

A. ANSI/NWMA I.S.1 - Industry Standard For Wood Flush Doors.

B. ANSI A135.4 - Basic Hardboard.

C. AWI - Quality Standards of Architectural Woodwork Institute.

1.04 QUALITY ASSURANCE

A. Conform to requirements of ANSI/NWMA I.S.1.

1.05 SUBMITTALS

A. Submit product data.

1.06 DELIVERY, STORAGE, AND PROTECTION

A. Package, deliver, and store doors in accordance with ANSI/AWMA requirements.

PART 2 PRODUCTS

2.01 DOOR TYPES

A. Flush Interior Doors: 1-3/8 inches thick; hollow core construction; hardboard veneer faces.

Doors equal to: Perma-Door by Steelcraft
Rigi-Dor by Johnson Metal Products
A-Core Series: Acorn
Stanley

2.02 DOOR CONSTRUCTION (ANSI/AWMA - I.S.1 STANDARD)

A. Hollow Core: ANSI/AWMA I.S.1; mesh or cellular core including solid lock blocks, vertical edge bands, top and bottom rails.

B. All wood doors to have solid wood rails, stiles and lock blocks.

2.03 FRAME TYPES

A. Solid wood pre-hung for all doors 3'0" wide.

B. Reinforcements:

Hinges: As supplied by door manufacturer.

Surface-Mounted Hardware: for frames and doors.

2.05 ADHESIVES

A. Interior Doors: ANSI/NWMA, Type II.

2.06 FABRICATION

A. Fabricate non-rated doors in accordance with ANSI/NWMA I.S.1 requirements.

B. Pre-machine doors for finish hardware.

2.07 TRIM

A. Match existing trim.

2.08 DOOR FINISHING

A. Stain to match existing.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors in accordance with manufacturer's instructions.

B. Machine cut relief for hinges and coring for handsets and cylinders.

C. Pilot drill screw and bolt holes.

D. Prepare doors to receive finish hardware in accordance with ANSI/AWMA requirements.

E. Conform to ANSI/AWMA requirements for fit tolerances.

3.02 ADJUSTING AND CLEANING

A. Adjust for smooth and balanced door movement.

END OF SECTION 08210

SECTION 8712 DOOR HARDWARE

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Hardware for wood faced doors.
- B. Thresholds.

1.02 RELATED WORK

- A. Section 06001 Carpentry.
- B. Section 06220 Millwork.

1.03 REFERENCES

- A. ANSI A117.1 - Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.
- B. ANSI/NFPA 80 - Fire Doors and Windows.
- C. BHMA - Builders' Hardware Manufacturers Association.
- D. NFPA 101 - Life Safety Code.
- E. UFAS Standards.

1.04 COORDINATION

- A. Coordinate work of this Section with other directly affected Sections involving manufacturer of any internal reinforcement for door hardware.

1.05 SUBMITTALS

- A. Submit schedule, and product data.
- B. Indicate locations and mounting heights of each type of hardware.
- C. Provide product data on specified hardware.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. All hardware to match existing in the residential units. The following is to be used if matching is not possible.
- B. Hinges: Lawrence or Stanley.
- C. Latch Sets: Equal to Wieser, Stanley, Schlage. All with lever handles.
- D. Cylinder Locks: Same as Latch sets.

2.02 KEYING

- A. All doors of each unit to be keyed alike. Provide master key for all units for owner.
- B. Supply keys as directed by owner for each lock.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings instructed by the manufacturer.

3.02 INSTALLATION

- A. Install hardware in accordance with manufacturer's instructions and requirements of BHMA.
- B. Use the templates provided by hardware item manufacturer.

END OF SECTION 08712

SECTION 09260 GYPSUM BOARD SYSTEMS

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Gypsum board.
- B. Taped and sanded joint treatment.

1.02 RELATED WORK

- A. Section 06001 - Carpentry.
- B. Section 09900 - Painting.

1.03 REFERENCES

- A. ANSI/ASTM C36 - Gypsum Wallboard.
- B. ANSI/ASTM C79 - Gypsum Sheathing Board.
- C. ANSI/ASTM C442 - Gypsum Backing Board.
- D. ANSI/ASTM C475 - Joint Treatment Materials for Gypsum Wallboard Construction.
- E. ANSI/ASTM C514 - Nails for the Application of Gypsum Wallboard.
- F. ANSI/ASTM C630 - Water Resistant Gypsum Backing Boards
- H. ANSI/ASTM C754 - Installation of Framing Members to Receive Screw Attached Gypsum Wallboard, Backing Board, or Water Resistant Backing Board.
- I. GA-201 - Gypsum Board for Walls and Ceilings.
- J. GA-216 - Recommended Specifications for the Application and Finishing of Gypsum Board.

PART 2 PRODUCTS

2.01 FRAMING MATERIALS

- A. Furring, Framing and Accessories GA 201 and GA 216.
- B. Fasteners: GA 201 and GA 216.

2.02 GYPSUM BOARD MATERIALS

- A. Standard Gypsum Board: ANSI/ASTM C36; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.
- B. Moisture Resistant Gypsum Board: ANSI/ASTM C630; 5/8 inch thick, maximum permissible length; ends square cut, tapered edges.

2.03 ACCESSORIES

- A. Corner Beads: Metal.
- B. Joint Materials: GA 201 and GA 216; reinforcing tape, joint compound, adhesive, water, and fasteners.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that site conditions are ready to receive work.
- B. Beginning of installation means acceptance of surfaces.

3.02 REINFORCEMENT

- A. Provide all necessary framing and blocking to support gypsum boards at openings, cutouts and drywall joints.
- B. Provide 2 x 4 wood nailers for installing ceiling drywall at ceiling/wall intersections. Begin nailing of ceiling drywall to roof truss chords at 18" from ceiling/wall intersections.

3.03 GYPSUM BOARD INSTALLATION

- A. Install gypsum board in accordance with GA 201 and GA 216. Full adhesive and nailing.
- B. Erect single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- C. Fastening shall be by one of the following methods:
 - 1. Single Nail Method: Nails at 7" o.c. for walls, 7" o.c. for ceilings, perimeter nails between 1/2" and 3/8" from edge of board. Begin nailing from center of board and work toward edges. Use a drywall hammer with a crowned head to seat nails in a shallow dimple without breaking the paper.
 - 2. Screw Method: Screws 6" o.c. for ceilings; screws 6" o.c. for walls. (Perimeter and field of board). Screws to be 1" USG Type S.

- D. Treat cut edges and holes in moisture resistant gypsum board with sealant.
- E. Place corner beads at external corners. Use longest practical length. Place edge trim where gypsum board abuts dissimilar materials.

3.04 JOINT TREATMENT

- A. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
- B. Feather coats onto adjoining surfaces so that camber is maximum 1/16 inch.

3.05 TOLERANCES

- A. Maximum Variation from True Flatness: 1/8 inch in 10 feet.

3.06 SCHEDULE

- A. 5/8" thick gypsum wallboard on walls and ceilings.
- B. 5/8" thick water resistant ("MR") type in bathrooms.

END OF SECTION 09260

SECTION 09900 - PAINTING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Surface preparation.
- B. Surface finish schedule.

1.02 REFERENCES

- A. ANSI/ASTM D16 - Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.

1.03 DEFINITIONS

- A. Conform to ANSI/ASTM D16 for interpretation of terms used in this Section.

1.04 QUALITY ASSURANCE

- A. Product Manufacturer: Company specializing in manufacturing quality paint and finish products with 5 years experience.
- B. Applicator: Company specializing in commercial painting and finishing with 3 years experience.

1.05 SUBMITTALS

- A. Provide product data on all finishing products.
- B. Submit samples of manufacturers standard colors for selection.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptance.
- B. Container labeling to include manufacturer's name, type of paint, brand name, brand code, coverage, surface preparation, drying time, cleanup, color designation, and instructions for mixing and reducing.
- C. Take precautionary measures to prevent fire hazards and spontaneous combustion.

1.07 ENVIRONMENTAL REQUIREMENTS

- A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during, and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

Equal to:

A. Glidden

B. Pratt and Lambert

C. Iowa Paint

D. Diamond Vogel

E. Sherwin Williams

2.02 MATERIALS

A. Coatings: Ready mixed, except field catalysed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.

B. Coatings: Good flow and brushing properties; capable of drying or curing free of streaks or sags.

C. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.

2.03 FINISHES

A. Refer to schedule at end of Section for surface finish schedule.

PART 3 EXECUTION

3.01 INSPECTION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

C. Beginning of installation means acceptance of existing surfaces.

3.02 PREPARATION

- A. Remove electrical plates, hardware, light fixture trim, and fittings prior to preparing surfaces or finishing.
- B. Correct minor defects and clean surfaces which affect work of this Section.
- C. Shellac and seal marks which may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Gypsum Board Surfaces: Latex fill minor defects. Spot prime defects after repair.
- F. Interior Wood Items Scheduled to Receive Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.

G. Wood Doors Scheduled for Painting: Seal top and bottom edges with primer.

3.03 PROTECTION

- A. Protect elements surrounding the work of this Section from damage or disfiguration.
- B. Repair damage to other surfaces caused by work of this Section.
- C. Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces:
- D. Remove empty paint containers from site.

3.04 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry.
- C. Apply each coat to uniform finish.
- D. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- E. Sand lightly between coats to achieve required finish.
- F. Allow applied coat to dry before next coat is applied.
- G. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.

3.05 CLEANING

- A. As Work proceeds, promptly remove paint where spilled, splashed, or spattered.

B. During progress of Work maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris.

C. Collect cotton waste, cloths, and material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

3.07 SCHEDULE - SHOP PRIMED ITEMS FOR SITE FINISHING

A. Metal Fabrications Section 05500: from rails and fencing.

3.08 SCHEDULE - INTERIOR SURFACES

A. Wood - Painted

1. One coat alkyd prime sealer if unprimed.
2. Two coats alkyd enamel, semi-gloss.

B. Wood - Transparent

1. Filler coat (for open grained wood only).
2. One coat stain.
3. One coat sealer.
4. Two coats varnish, satin.
5. Produce finish on oak millwork items.

3. Product finish on walls in rooms scheduled to receive paint finish.

A. Gypsum Board

1. One coat alkyd primer sealer.
2. Two coats latex enamel, semi-gloss.
3. Produce finish on wall, ceilings and bulkheads.

END OF SECTION 09900

SECTION 15010 MECHANICAL WORK IN GENERAL

1. CODES, ORDINANCES, & PERMITS

All governmental codes and ordinances that are applicable and in effect at the time and location of this work are hereby referenced as an integral part of the specification to establish minimum standards of design detail, materials, and workmanship. Extra payment will not be allowed for work or changes required by local code enforcement authorities. This is not to preclude the establishment of non-conflicting higher standards as may be specified herein and/or indicated on the drawings. In case of conflict between any of the standards established herein and a governmental code or ordinance, refer to the Architect and obtain instructions before proceeding with the work involved.

Apply for, obtain, and pay for all required permits and inspection certificates.

Particular attention is directed to:

State and local plumbing codes

Underwriters', NFPA, and building code regulations governing the fuel burning appliances and equipment

Local regulations governing service taps for gas, water and sewer

NFPA and building code regulations governing the fuel piping systems

NFPA and building code regulations governing openings in fire resistive construction

NFPA and building code regulations governing clearances to combustible materials.

2. BUILDING CONSTRUCTION

Refer to the general construction drawings, which are bound with the drawings of this work, for construction details, elevations, etc.

3. INSTALLATION OF THE WORK

Examine the site and all drawings before proceeding with the layout and installation of this work.

Arrange the work essentially as shown, exact layout to be made on the job to suit actual conditions. Confer and cooperate with other trades on the job so all work will be installed in proper relationship. Precise location of parts to coordinate with other work is the responsibility of the Contractor. Arrangement of equipment and connections shall permit clear access for service, including component removal.

Arrange for required chases, slots, and openings. Contractor is liable for cutting or patching made necessary by his failure to make proper arrangements in this respect.

Indicated equipment connections are necessarily based on equipment of a given manufacture. Contractor assumes responsibility for proper arrangement of pipes, ducts, etc., and for other services to connect "approved equal" or "alternate" equipment in a proper and approved manner. Follow equipment manufacturer's detailed instructions and recommendations in the installation and connection of all equipment. Installation and/or connections that are contrary to manufacturer's instructions shall be reworked by the Contractor as directed by the Architect. Particular attention is directed to performance, safety, and manufacturer's warranty on the equipment involved. Contractor shall obtain from the equipment manufacturer(s) the necessary instructions and shall thoroughly familiarize himself with them before commencing any installation. In case of conflict between manufacturer's instructions and the contract documents, notify the Architect before proceeding.

Install all work in a neat and workmanlike manner, using only workmen thoroughly qualified in the trade or duties they are to perform. Rough work will be rejected.

Provide a full-time superintendent who shall oversee and coordinate the work with other trades, receive instructions from the Architect, and make proper layout of the work to suit job conditions and to satisfy the general requirements of the contract.

4. CLEANING & RUBBISH

At all times, keep the premises clear of undue accumulation of rubbish.

On completion of the work, remove all rubbish and debris resulting from this contract and subcontracts and dispose of same.

All equipment, pipe, fixtures, etc. shall be thoroughly cleaned and left in a satisfactory condition for use.

Equipment used for temporary heat and/or ventilation shall be protected to prevent unnecessary induction of dirt and shall be thoroughly cleaned of all dust, etc. that is allowed to accumulate.

Adequate filters shall be used and maintained in or for all fan coil equipment used for temporary heat and/or ventilation.

All air ducts shall be protected during construction. All openings shall be suitably closed to effectively prevent the entrance of dust and construction debris.

5. SHOP DRAWINGS

Submit shop drawings, descriptive literature, and connection diagrams on all equipment to be furnished under this contract. Submittals shall plainly show all features that are pertinent to the design and specifications including materials, weights, finishes, performance data, etc.

Contractor shall check and verify shop drawings for shape, dimensions, connections, and details of attachment to the construction before submittal. Submitted shop drawings will be presumed to have been so checked by the Contractor.

Make submittals as soon as practicable after the signing of the contract. Shipment shall not be released until shop drawings have been finally approved.

Shop drawing submittals shall include drawings of equipment bases.

Required number of copies of shop drawings will be the number required by the Contractor plus three (3).

6. OPERATION & MAINTENANCE MANUALS

Furnish to the Architect for delivery to the Owner, at least (3) three bound and indexed copies of an approved operation and maintenance instruction booklet covering each item of equipment installed under this contract. These booklets shall provide complete instructions on the proper operation and use, lubrication and periodic maintenance, together with the source of replacement parts and service for the item of equipment covered.

On completion of the job, the Contractor shall spend a reasonable amount of time with the Owner in instruction and demonstration of the operation of the system.

7. ELECTRICAL CONNECTIONS

All electrical work, including mounting starters, is specified in Division 16 (Electrical Work) unless specifically required herein.

Furnish detailed information to the Electrician on power and control wiring requirements for all mechanical equipment and the control system actually purchased, as soon as practicable.

Provide diagrams and instructions necessary for the Electrician to make connections properly.

Electrical work required under this contract shall be done in accordance with applicable provisions of the National Electrical Code and local ordinances.

8. ADJUSTING, BALANCING & TESTING

On completion of the installation, provide all necessary adjusting and balancing to obtain proper operation of all equipment and systems. Provide all facilities (except fuel and/or electrical energy) and make tests required for adjustments and balancing or to prove the performance of any piece of equipment if so ordered.

9. RECORD DRAWINGS

The Architect will furnish the Contractor one set of blue line prints of the mechanical drawings as issued for this contract. Use these prints to indicate accurately and neatly any deviation in the actual installation from the drawings as issued. At the completion of the job, the drawings shall be delivered to the Architect for a permanent record of the exact location of all equipment, pipe runs, etc., as incorporated in the job.

10. CONTRACTOR'S WARRANTY

Contractor shall warrant all equipment and the installation to function properly for a period of one year from the date of final acceptance as indicated on HUD Final Inspection Report HUD 5379.

Defects becoming apparent within the warranty period shall be repaired by the Contractor as directed by the Architect.

The warranty shall not obligate the Contractor to repair damage resulting from accident or improper operation or care on the part of the Owner, and not due to defective material or installation.

END OF SECTION 15010

BASIC MECHANICAL MATERIALS & METHODS

1. PIPE & FITTINGS

See technical specification headings for types of piping materials to be used for specific services and locations. Special requirements under individual headings take precedence over general requirements herein. General minimum requirements for pipe and fittings are:

Steel pipe: ASTM A-120 & A-53

Copper tube: (water, waste, etc.)ASTM B-88

Copper tube (refrigerant piping):ASTM B-280

Cast iron soil pipe: ASTM A-74-87, A-888

Clay tile sewer pipe: ASTM C-700

Ductile cast iron water main: USAS A-21:11

Cast iron screwed fittings: USAS B 16.4 - 1963

Malleable iron screwed fittings: USAS B 16.4 - 1963

Steel welding fittings: USAS B 16.9 - 1964

Cast iron drainage fittings: ASTM A-74-87

Steel socket weld fittings: USAS B 16.11 - 1966

Cast brass solder joint fittings: USAS B 16.18 - 1963

Wrought copper solder fittings: USAS B 16.22 - 1963

ABS DWV pipe and fittings: CS 270-65

PVC DWV pipe and fittings: CS 272-65

Corrugated polyethylene drainage tubing: ASTM D3350

2. PIPE ASSEMBLY

In general, assembly of piping shall be as specified herein. Special requirements under individual headings for specific purposes take precedence over the general requirements herein.

Threaded joints in steel pipe:

Cut pipe to accurate length and ream the ends. Use clean sharp dies; imperfectly formed or torn threads will be rejected. Use approved dope on male threads only and clean away excess dope.

Sweat joints in copper pipe:

Cut pipe squarely to accurate length for full penetration into fittings. Remove burrs from ends, clean soldering surfaces thoroughly, flux, assemble, and solder before surfaces oxidize. Use approved non-corrosive flux and ASTM B-32, 95TA 95/5 solder. Use sufficient heat for complete penetration of solder and wipe away excess flux and solder. Harris Stay Safe Bridgit with Stay Clean flux and Engelhard Silvacrite 100 are approved solders.

See Section 15650 for special requirements in assembling, cleaning, etc. of copper refrigerant piping.

Cast iron soil pipe:

Use pipe with ASTM C564-70(1982) push-on gaskets.

No hub pipe with stainless steel clamp joints may be used at Contractor's option. See pipe support specifications.

Clay tile sewer pipe:

Use pipe with ASTM Spec. C425-77(1982) prefabricated joints.

Welding steel pipe:

Use V butt welds, either arc or oxyacetylene. If electric arc is used, arrange for and pay for the electric energy. All fittings shall be shaped welding fittings. Use no miter joints or branches welded directly into the side of a pipe, except properly shaped branch pipe ends may be welded directly to the outside of 2" and larger mains if the main is two or more pipe sizes larger than the branch.

Socket weld fittings in the sizes in which these are available shall be used.

Mechanical couplings:

Victaulic, Gustin-Bacon Gruvagrip 100, or approved equal with suitable gasket. Fittings shall be special grooved end type made for the couplings, of malleable iron. Pipe ends shall be grooved in accordance with the manufacturer's instructions. The system shall be rated for 1000 psi working pressure for pipes 3/4" to 6", 800 psi for 8" to 12" pipes. End pull rating at rated working pressure shall be 1150 lbs. per inch of nominal pipe diameter. Couplings shall permit angular deflection up 2° for pipe up to and including 5", up to 1° for pipe 6" and larger.

Victaulic FIT plain end steel pipe couplings and fittings with proper gasket are acceptable in sizes 1" - 2".

Furnish -30° to 230°F gaskets for heating, -30° to 160°F gaskets for chilled water, etc. and Nitrite gaskets for petroleum services.

Schedule 40 ABS, PVC, or CPVC pipe:

Use tubing cutter or miter box and saw to cut pipe squarely to length. Taper end with an approved tapering tool. Remove all burrs inside and out. Break glaze on joint surfaces with fine sandpaper, apply solvent, apply cement, insert pipe end into fitting socket to full penetration, and turn 1/4 turn. Do not use thick or lumpy cement. Pipe and fittings must be of identical material, and the solvent and cement used must be proper for the material.

Adapters:

Use proper adapters when connecting pipe or fittings of different material.

Blocking and clamping:

Bell and spigot, mechanical joint, and similar joining methods that do not provide inherent resistance against axial separation shall be clamped and/or blocked at all ends and fittings where the pressure within the pipe (normal or surge) or thermal contraction or a combination would tend to separate the joint.

Corrugated polyethylene drainage tubing:

Use bands and fittings supplied by the tubing manufacturer. Installation shall be in accordance with ASTM D 2321, Class I, II, or III.

3. PIPE CLEANLINESS

Pipe assembly procedures shall keep the piping system as clean as possible. Each length of pipe and each fitting shall be ascertained free of foreign material that may have been introduced in storage and handling before it is assembled in the system. Assembly methods shall be such that the formation of and/or introduction of residues such as fluxes, oxides, cutting chips, oil, dope, joining materials, etc. is kept to a minimum. Open ends of pipe shall be suitably plugged or capped as the work progresses.

On completion of a piping system, or a section thereof, the system (section) shall be flushed as necessary to achieve cleanliness. Flushing fluid shall be non-deleterious to the piping and/or any of the components in the system. Flushing methods shall be such that foreign material is washed away from rather than into coils, valves, specialties, etc. Direction of flow of flushing fluid shall be opposite to normal direction of flow in the pipe wherever this is practicable.

All strainer screens, scale pockets, etc. shall be left thoroughly cleaned.

4. VALVES & COCKS

Provide valves and cocks as specified herein for general use, except where special requirements are given for specific services. Special requirements appearing under individual headings take precedence over the general requirements given herein.

Gate valves:

Screwed ends (or soldered ends to 2"), 125 lb. SP, 200 lbs. WOG, all bronze, solid wedge disc, rising stem.

Lunkenheimer 2151 screwed, 2132 soldered Jenkins 990 screwed, 991 soldered Crane 428 screwed, 1334 soldered Walworth 57 screwed, 57SJ soldered Stockham B100 screwed, B108 soldered Powell 500S screwed, 1821S soldered Hammond IB640 screwed, IB635 soldered Milwaukee 148 screwed, 149 soldered Nibco Scott T-111 screwed, S-111 soldered

Checks:

Screwed or soldered ends, 125 lb. SP, 200 lb. WOG, all bronze.

Lunkenheimer 2144 screwed, 2145 soldered Jenkins 996 screwed, N.A. Crane 37 screwed, 1342 soldered Walworth 3406 screwed, 3406SJ soldered Stockham B319 screwed, B309 soldered Powell 578 screwed, 1825 soldered Hammond IB940 screwed, IB912T soldered Milwaukee 509 screwed, 1509 soldered Nibco T413-B screwed, S-413-B soldered Metraflex 125 lb. rated silent check valves will be accepted.

Vertical lift "silent" checks as Milwaukee 1400, Nibco W-910, Stockham W970 are acceptable.

Victaulic checks and connectors are acceptable.

Cocks:

Screwed ends, all bronze, 150 lb. WOG straight way plug with square head and wrench, or Milwaukee UL; A.G.A. 175 lb. W.O.G. Butterball Butterfly.

Lunkenheimer 454
Crane 250
Powell 948
Wolverine 52599
Milwaukee Butterball BB-2-100

Ball valves:

Screwed or soldered ends, all bronze body, bronze or stainless steel ball, Teflon seats and O ring, lever handle, 150 lb. 600 W.O.G.

Lunkenheimer 707XLT screwed ;
Crane 9302 screwed, 9302S soldered
Stockham S216-BR-R-T screwed, S226-BR-R-S soldered
Watts B-6000 Series, screwed or soldered
Wolverine 52965 Series, screwed or soldered
Apollo 70-100 screwed, 70-200 soldered
Milwaukee BA100 screwed, BA150 soldered
Nibco T-585 screwed, S-585 soldered
Victaulic Series 721

Butterfly valves:

Milwaukee MW223E wafer or ML223E LUG, Keystone 228, Stockham, Lunkenheimer Regal, Jenkins 720-EL, Centerline Series A, Wolverine 52839 Series, Nibco NL-082 iron body aluminum bronze disc, stainless steel stem, EPDM seat, lubrized bronze or nylon bushings, positive shutoffs, 150 psi -20- to 250- service. 2" + down may be Milwaukee Butterball BB-2-100 screwed, Butterball BB-2-350 soldered. 2" up may be Victaulic VIC-300.

Butterfly valves shall be equipped with memory stop lever handles unless special operator is indicated.

If butterfly valves are used adjacent to any piece of equipment so they are the only means of isolating the equipment for service, there shall be separate flanged unions between the valve and the equipment arranged so the valve can remain in place to provide isolation while the pipe connection to the equipment is removed to service and/or replace the equipment. Tapped flanges may be used to accomplish the purpose. Requires butterfly to be full lug type.

5. PIPE HANGERS

Auto-Grip, Fee & Mason, Grinnell, steel clevis hangers, selected within manufacturer's published load ratings, accurately adjusted to maintain specified pipe grades and securely attached to the building by means of concrete inserts, expansion plugs, clamps, brackets, lag screws, etc. as applicable.

Hanger spacing for horizontal pipe shall not exceed:

Cast iron soil pipe/Each straight length of pipe
1" and smaller pipe (copper & steel)/6'-0"
1-1/4" to 2" pipe (copper & steel)/12'-0"
2-1/2" and larger pipe (copper & steel)/18'-0"
ABS, PVC, CPVC plastic, & other non-metallic, any size/4'-0"

Hanger rods shall be at least:
3/8" diameter for pipes to 2"

1/2" diameter for pipes 2-1/2" and 3"
5/8" diameter for pipes 4" and 5"

Rods for trapeze hangers supporting several pipes shall be sized for the load equivalent of the several pipes.

Hanger rods shall be attached to sufficiently rigid structural members of the building.

Provide additional hangers or anchoring devices necessary for proper support of piping at corners, tops of risers, etc.

Provide blocking at ends of runs and elbows as necessary to prevent movement from normal pressure and water hammer thrust forces.

Anchors shall consist of sufficiently rigid members properly clamped or welded to the pipe to positively prevent pipe movement at that point. Guides, as specified with expansion joints, shall be provided for piping connecting to expansion joints. Attach hangers and guides to sufficiently rigid structural members of the building.

Hangers for copper pipe shall be either copper plated type or there shall be a shield of 4 lb. sheet lead to completely surround the pipe and prevent direct contact to the hanger.

Supports for pipes with vapor barrier type covering shall not contact the pipe but shall surround the unbroken covering. Provide galvanized steel shields with mitered corners properly formed to the jacket O.D. between hanger clevises and the lower 1/3 of the circumference. Size shields as follows:

Pipe to 1"	18 ga. x 8" long
1-1/4" to 2"	16 ga. x 12" long
2-1/2" to 4"	14 ga. x 16" long

Use similar support to isolate vibration in refrigerant hot gas piping and other piping that is subject to vibration.

6. SLEEVES & ESCUTCHEONS

Provide sleeves around pipes and ducts passing through concrete or masonry. Use 18 ga. galvanized steel, "Sonopipe," or preformed plastic sleeves sized to allow approximately 1/8" gap around the pipe or its insulation. Sleeves around "cold" pipes and ducts with vapor barrier type insulation shall be sized to pass the uninterrupted insulation.

The Contractor is responsible for accurate location and setting of sleeves.

Steel sleeves will not be allowed in contact with copper pipe.

Where exposed pipes enter finished spaces, provide nickel plated escutcheon plates, set flush with finished surfaces.

Where more than one pipe is necessarily passed through a single sleeve as to a unit piping enclosure, or other conditions result in larger than 1/8" gap within the sleeve, the space shall be tightly packed with fiberglass to form a barrier against sound, vermin, fire, etc.

Provide properly fitted sheet metal flanges around sheet metal ducts entering exposed into finished spaces and/or to cover excessive gaps around ducts entering into non-finished spaces.

Use Carborundum Fiberfrax Fyr Putty or 3M Fire Barrier fire stop foam, sealant, or intumescent wrap. Install material suited for and in manner of proper UL listed assembly number for wall, ceiling, or floor and type of assembly penetrating. Follow all manufacturer's installation requirements to provide a rating at least equal to the construction penetrated.

All methods and products used for sealing fire wall or floor penetrations are to be approved by Architect/Engineer and local code authorities before installation.

7. INTERNAL WIRING

Equipment which is specified to be internally wired shall be furnished with complete internal power and control wiring ready for field connection of power supply and external controls, if any.

Internal wiring shall comply with applicable NEMA, NEC, and local code requirements. Complete and certified correct wiring diagrams shall be furnished with all factory wired equipment before it is finally accepted.

Power circuit(s) will be energized through molded case thermal magnetic circuit breakers with trip ratings as scheduled. Equipment-motor-starter characteristics shall be such that the equipment will start and operate satisfactorily when connected to the power supply as scheduled.

ENDO OF SECTION 15100

SECTION 15460 PLUMBING FIXTURES

1. SCOPE OF THE WORK

Furnish and install plumbing fixtures and trim as shown on the drawings and/ or specified herein.

Setting shall be absolutely tight and rigid on proper grounds. Rawl plugs are not acceptable anchor. Use Miracle Adhesives Corp. Tub-Caulk, pointing material under all setting surfaces.

Provide required trim including supplies, wastes, traps, and floor and wall plates. Coordinate sizes, locations, and configurations of openings with specified trim. Traps shall be adjustable type drawn brass, at least 17 ga. Exposed brass shall be chrome plated. Provide each fixture supply with an approved compression service stop. Exposed stops shall be either loose key or screwdriver type. Supply valves shall be interchangeable cartridge type with replaceable seats, discs, and O ring stem packing located below stem threads.

~~Protect fixtures after they are set. Thoroughly clean them at the completion of the job.~~

Enamel and porcelain shall be white.

See mechanical drawings for fixture schedule and specific model numbers.

Installation of all fixtures shall be in strict accordance with manufacturer's instructions and shall include all guarantees and warranties that they provide.

END OF SECTION 15460

SECTION 16010 ELECTRICAL WORK IN GENERAL

1. CODES, ORDINANCES AND PERMITS

All governmental codes and ordinances that are applicable and in effect at the time and location of this work are hereby referenced as an integral part of the specification to establish minimum standards of design detail, materials, and workmanship. Extra payment will not be allowed for work or changes required by local code enforcement authorities. This is not to preclude the establishment of non-conflicting higher standards as may be specified herein and/or indicated on the drawings. In case of conflict between any of the standards established herein and a governmental code or ordinance, refer to the Architect and obtain instructions before proceeding with the work involved.

Apply for, obtain, and pay for required permits and certificates of inspection Particular attention is directed to:

- National Electrical Code
- Local electric wiring ordinances
- Requirements of the electric utility company
- Requirements of the telephone company

2. BUILDING CONSTRUCTION

Refer to the general construction drawings, which are bound with the drawings of this work, for construction details, elevations, etc.

3. INSTALLATION OF THE WORK

Examine the site and all the drawings before proceeding with the layout and installation of this work. Verify all door swings and clearances to cabinets, etc. before locating switch and outlet boxes. Locate conduits, boxes, etc., essentially as shown on the drawings, but in exact layout determined on the job to suit actual conditions. Locate work so it does not interfere with access to service for any equipment. Confer and cooperate with other trades on the job so all parts will be installed in proper relationship. Precise location of parts to coordinate with other work is the responsibility of the Contractor.

The Contractor is responsible for correct size and location of chases, slots, and openings required by him and will be liable for any cutting or patching made necessary by his failure to make proper arrangements in this respect

Install all work in a neat and workmanlike manner by workmen thoroughly qualified in the trade or duties they are to perform. Rough work will be rejected.

Maintain a competent full-time superintendent on the job to oversee and coordinate work with other trades, receive instructions from the Architect/Engineer, make layout of work to suit actual conditions, and to satisfy requirements of the drawings, specifications, and good workmanship.

4. SHOP DRAWINGS

Submit shop drawings, wiring diagrams, and descriptive literature on all equipment furnished in this contract.

Make submittals as soon as practicable after the signing of the contract. Shipment shall not be released until drawings and literature have been finally approved.

Shop drawings shall be checked by the Contractor for shape, dimensions, and details of attachment to the construction before submittal. Submitted shop drawings will be presumed to have been so checked by the Contractor.

The literature shall be complete, giving materials, gauges, weights, finishes, etc., and in case of lighting fixtures, shall include ETL photometric curves.

5. CLEANING & RUBBISH

During the work, keep the premises clear of unnecessary accumulation of debris.

6. CONTRACTOR'S WARRANTY

All work shall be warrantied to be free of defects and to function properly for one year from the date of HUD 100% final inspection and report HUD 5379. Defects appearing within the warranty period shall be repaired to the satisfaction of the Architect.

The warranty shall not obligate the Contractor for failure resulting from accident or from improper operation or care on the part of the Owner.

Plug or cap open ends of conduits to prevent the entrance of dirt and/or moisture during construction. Protect boxes, panel enclosures, etc. against the entrance of mortar, plaster, moisture, and other foreign material during construction, and thoroughly clean these spaces before pulling wires, and again, if necessary, before installing covers of fronts.

On completion of the work, remove all rubbish and debris resulting from the work or the work of subcontractors and dispose of same.

ENDO OF SECTION 16010

SECTION 16100 BASIC ELECTRICAL MATERIALS & METHODS

1. UL LABEL

All materials, devices, etc. installed under this contract shall bear the UL label, or be UL listed as applicable except those specified items not covered by existing UL Standards.

2. OUTLET BOXES

Provide an NEC construction galvanized steel or plastic box securely anchored to the structure at each outlet. Minimum sizes shall be 4" octagon for fixtures, 4 x 2-1/8 x 1-7/8 for single devices. Outlet box sizing shall comply with NEC volume and conductor bending radius requirements.

Provide fixture studs, plaster, and extension rings, etc. as required.
Set boxes squarely with faces flush to finished surfaces.
Remove knockouts only as required.

3. WIRE & WIRING

Use NEC Type TW, THW, THWN, or THHN, 600V thermoplastic covered solid copper wire except as otherwise noted. Size wires as noted or as required by code for current protective device rating, except no wire smaller than #12 may be used in lighting and power circuits. #8 and larger wire shall be stranded. Stranded conductors shall be used for control wiring and for special system wiring as specified. Non-metallic sheathed cable may be used without conduits and with plastic boxes for branch circuit wiring in stud walls or attic areas where not exposed to view. Non-metallic sheathed cable shall have continuous ground.

Conductors that extend into fixture housings, motor terminal boxes, and similar locations shall be of a type that is code approved for the temperature and other conditions at the location.

Color code all wires for phase identification per NEC Section 210-5. Use white neutrals of same size as phase wires and green ground wires sized per NEC Sections 250-94 and 250-95. Use colored bands of tape on exposed ends of conductor insulation to code feeders.

4. WIRING DEVICES (S)

Circle F, General Electric, Leviton, Pass & Seymour, or Slater specification grade as listed herein.

Listing is by basic number only. Prefixes, suffixes, etc. to indicate color and special features called for are not included. Binding screws or wire lock terminals are optional. Unless necessarily otherwise, switch handles and receptacle bodies shall be ivory.

Equivalent interchangeable unit devices may be used only where construction space limitations preclude the use of standard devices.

Special devices noted on the drawings shall conform to this schedule of grade and style.

	F	GE	L	P&S	SL
Switches					
SP toggle	3421	5961	5521	5021	720
3W toggle	3423	5963	5523	5023	723
4W toggle	3424	5964	5524	5024	724

SP glow 1281 57501 15AC1 720

Receptacles

Duplex convenience* 2515 4090 5014 5250 3200

30A 125/250V grnd. 3632 4132 5371 3853 3864

50A 125/250V grnd. 3652 4152 5206 3855 3894

*Convenience outlets shall be 15A duplex unless noted otherwise.

5. WIRING DEVICES - POWER & CONTROL WIRING (S)

Devices listed are based on Square D Standard Duty catalog numbers. Equivalent Allen Bradley, Cutler-Hammer, Clark, Furnas, General Electric or Westinghouse devices may be used.

END OF SECTION 16100

UNITED STATES OF AMERICA,

v.

Defendants.

Civil Action No.: 02-2167-JWL

APPENDIX E TO CONSENT DECREE

Dear Tenant,

This is to advise you that, as a result of a settlement in a case brought by the United States against the owners of this apartment complex, we have agreed to modify the ground floor units at _____ (Indian Meadows or Ridgeview) to provide greater accessibility for people with disabilities. Your unit is one of those that does not meet the accessible and adaptive design requirements of the Fair Housing Act.

Although your apartment unit will be retrofitted automatically after your tenancy ends, we want you to know that you may request to have your apartment modified now at no cost to you. The actual work will take no longer than _____ days and we will provide you with comparable alternative living arrangements during that time. In scheduling when the repairs will take place, we will take into account your preferences and convenience.

You should be aware that this work must be completed within the next forty-five months, regardless of your intention to stay in your apartment for a longer duration. Please let us know if you are interested in having the work done now and we will provide you with additional information.

The Management

**UNITED STATES DISTRICT COURT
DISTRICT OF KANSAS**

UNITED STATES OF AMERICA,)	
)	
Plaintiff,)	
)	
v.)	Civil Action No.: 02-2167-JWL
)	
LNL ASSOCIATES/ARCHITECTS, P.A., et al.,)	APPENDIX F TO CONSENT
)	DECREE
Defendants.)	
)	

RELEASE OF CLAIMS

I, _____, on behalf of myself and family members, agents, heirs, executors, administrators, successors and assigns, pursuant to the terms, provisions, and conditions of the Consent Order approved by the United States District Court for the District of Kansas on _____, 2004 in the case of United States v. LNL Associates/Architects, et al., Civ. No. 02-2167-JWL ("lawsuit") and in consideration of the payment of _____ do fully, finally and forever release, discharge, and hold harmless LNL Associates/Architects, P.A., Allenbrand-Drews and Associates, Loren Drews and Gary Allenbrand, Randall L. Davis, R.L. Davis Company, LLC; Ridgeview Apartments, LP; Olathe Leased Housing Associates I, L.P.; Dominion Olathe Partners, L.P. (a.k.a. NHG Olathe Partners); Olathe Leased Housing Associates II, L.P.; Dominion Kansas One, L.P. (a.k.a. NHG KANSAS ONE L.P.), Porta-McCurdy Development Co., L.L.C., Summit Contractors, Inc., The Holland Corp., and Standard Electric Co., Inc. (hereinafter "Defendants"), along with their insurers, attorneys, related companies, principals, predecessors, successors, assigns, affiliates, partners, directors, officers, agents, employers, shareholders, subsidiaries, employees, former employees, heirs, executors, and administrators and any persons acting under their respective direction or control (hereinafter "Releasees"), from any and all fair housing claims set forth, or which could have been set forth, in the Complaint in this lawsuit that I may have against Defendants or any of the Releasees for any of Defendants' actions or statements related to those claims through the date of this Consent Order, including claims for damages (both compensatory and punitive), costs, fines and attorneys' fees.

I affirm that the only consideration for signing this Full and Final Release of Claims are the terms stated in the Consent Order signed by the parties, and the monetary payment referenced above. I have accepted the terms of this Release and the Consent Order because I believe them to be a fair and reasonable settlement and for no other reason. This Release and the Consent Order contain and constitute the entire understanding and agreement between the parties.

NAME (PRINT)

SIGNATURE

DATE

If you believe you have been discriminated against

at _____ Apartments because of your disability,
and if you believe you are consequently entitled to a share of the Settlement Fund,
please contact the United States Department of Justice at:

1-800-896-7743
leave message in mailbox 92

You may also write to:
United States Department of Justice
Civil Rights Division
Housing and Civil Enforcement Section
950 Pennsylvania Ave. N.W. -G St
Washington, DC 20530

You **must** call or write on or before [no more than 150 days after _____, 2006,]
and your message or letter **must** include your name, address, and, if possible, at least TWO
telephone numbers where you may be reached.

UNITED STATES OF AMERICA,)
)
 Plaintiff,)
)
 v.) Civil Action No.: 02-2167-JWL
)
 LNL ASSOCIATES/ARCHITECTS, P.A., *et al.*,) APPENDIX H TO CONSENT
) DECREE
 Defendants.)
)

I have received a copy of the Consent Decree entered in *United States v. LNL Associates/Architects, P.A., et al.* This Consent Decree was explained to me by my employer and all my questions were answered concerning it. I have read and understand the Consent Decree.

Printed Name _____

Date _____

UNITED STATES DISTRICT COURT
DISTRICT OF KANSAS

UNITED STATES OF AMERICA,

Plaintiff,

v.

LNL ASSOCIATES/ARCHITECTS, P.A., *et al.*,

Defendants.

Civil Action No.: 02-2167-JWL

APPENDIX I TO CONSENT
DECREE

CERTIFICATION OF FAIR HOUSING TRAINING

On _____, 200__, I, attended training on the federal Fair Housing Act, including its requirements concerning physical accessibility for people with disabilities. I have had all my questions concerning the Fair Housing Act answered to my satisfaction.

Signature

Print Name

Job Title

**UNITED STATES DISTRICT COURT
DISTRICT OF KANSAS**

UNITED STATES OF AMERICA,)	
)	
Plaintiff,)	
)	
v.)	Civil Action No.: 02-2167-JWL
)	
LNL ASSOCIATES/ARCHITECTS, P.A., et al.,)	APPENDIX J TO CONSENT
)	DECREE
Defendants.)	
<hr style="width: 40%; margin-left: 0;"/>)	

NOTICE OF ADDITIONAL ACCESSIBILITY MODIFICATIONS

Dear tenant or prospective tenant,

This is to advise you that, as a result of a settlement in a case brought by the United States against the owners of this apartment complex, we have agreed to modify the ground floor units at _____ (Indian Meadows or Ridgeview) to provide greater accessibility for people with disabilities. These units can receive these modifications -- AT NO COST TO YOU.

If you move into an apartment and you are interested, any or all of the modifications on the attached list can be made to your unit. You can choose which modifications you would like, and we will make them as soon as possible, while attempting to schedule the work at a time that will take into account your preferences and convenience. These modifications will be made free of charge and will not result in any increase in the rent for your apartment.

After looking at the attached list, please let us know if you are interested in having any work done and we will provide you with additional information. Neither you nor anyone living in your apartment needs to be disabled to ask for one or more of these modifications.

The Management

List of Accessibility Modifications That A Tenant Can Request

- Removal of cabinetry under the kitchen sink and/or bathroom lavatory so that a person using a wheelchair can make a full forward approach to the sink and, where cabinetry is removed, installation of additional cabinets (including, if requested, wall-mounted cabinets in the bathrooms) to make up for the loss of storage;
- Either the removal of the oven unit so that a person using a wheelchair can make a full forward approach to the cook top, plus the provision of a separate oven appliance (i.e., convection oven) **or** the alternative removal of the necessary cabinetry to allow a full parallel approach to the oven;
- Installation of controls on ovens/ranges that are located on the front of the range, or on the side or in the middle of the range;
- Installation of accessible bathrooms with roll-in showers;
- Installation of taller accessible toilets through the provision of toilet seat extenders;
- Installation of grab bars surrounding the bathroom and toilet areas;
- Installation of lever door hardware throughout the unit;
- Installation of a security system with panic button(s) options at the control pad;
- Installation of lever controls on faucets, tubs, kitchens, baths, and all other fixtures;
- Installation of a wand shower head on a flexible tube or a shower head on a height-adjustable rod;
- Installation of U-shaped pulls near hinges on the exterior of the front door that permit the door to be closed more easily;
- Installation of either a ramp over the level drop on the exterior side of the patio door **or**, in the alternative, installation of a wooden deck built over the exterior patio so that wheelchairs can re-enter the living room with less difficulty;
- Repair or replacement of the sliding glass door that leads to the patio so wheelchairs can exist and re-enter with less difficulty;
- Installation of a beveled threshold that leads from the interior of the unit to the sliding glass door to the patio, so that wheelchairs can exit the living room with less difficulty;
- Relocation of hanging rods and shelves in the closets to make them easier to use by wheelchair users;
- Installation of automatic door openers on the exterior doors;

- Installation of cabinets in the kitchen that are more easily accessible to wheelchair users, including, but not limited to, the removal of some cabinets and the replacement with more accessible storage space;
- Installation of an oven mounted high in cabinet (wall mount);
- Installation of lower kitchen counters (lower cabinets or decrease in toe area height);
- Installation of anti-scald valves in shower;
- Installation of electronic thermostats with large numbers and push buttons to adjust and/or remote thermostat control;
- Installation of a fish-eye peep hole or wide view peephole at tenant's preferred height (possibly combined with a periscope peep hole so that if the tenant looks out at 48", he or she can see out at 60");
- Installation of offset or swing-clear hinges on one or more doors in the units to allow more width for the passage of wide wheelchairs;
- Replacement of electric flip switches with rocker switches operable with a push;
- Installation of strobe light alarms for fire and/or light (visual) door bell indicator;
- Installation of full-height mirror in bathroom so a person seated in a wheelchair can view him or herself;
- Installation of pull-out shelves in kitchen and/or bathroom cabinets;
- Installation of a smooth kick plate on the push side of the unit entry door so wheelchair footrests may be used to push open the door without damaging the surface of the door;
- Installation of a side-by-side or freezer-under style refrigerator, allowing wheelchair users easier access to both freezer and fridge areas;
- Installation of accessible larger cabinet hardware that allows you to loop a hand or fingers into a u-shaped pull;
- Installation of full extension drawer slides in kitchen and bath cabinets to allow use of all of the drawer space;
- Widening of the door leading to the bedroom behind the kitchen (at Indian Meadows only) including, if necessary, widening of the hallway leading to the door.