

DIVISION NO. 8, DOORS AND WINDOWS.  
009800 ENTRANCES, STOREFRONT AND WINDOWS.

- A. DESIGN REQUIREMENTS:
  1. DESIGN COMPLETED STOREFRONT SYSTEM TO WITHSTAND WIND LOADS
  2. NORMAL WALL PLANE INDICATED. MINIMUM - MEET LOCAL CODE REQS.
  3. NEGATIVE PRESSURE - 13 PSF MINIMUM - MEET LOCAL CODE REQS.
- B. INTERIOR WALLS:
  1. 10 PSF - ACTING IN EITHER DIRECTION.
- C. PROVISIONS FOR THERMAL MOVEMENT TO HANDLE 180° F. SURFACE TEMPERATURE RANGE AND/OR CHANGE WITHOUT CAUSING BUCKLING STRESSES ON GLASS, JOINT SEAL FAILURE, UNDEE REDUCTION ON STRUCTURAL ELEMENTS, DAMAGING LOADS ON FASTENERS, REDUCTION OF PERFORMANCE OR DETRIMENTAL EFFECTS.
- D. PERFORMANCE REQUIREMENTS:
  1. STATIC PRESSURE AIR INFILTRATION - 0.06 CFM MAXIMUM @ DIFFERENTIAL STATIC PRESSURE OF 1.57 PSF PER ASTM E 283-84.
  2. STATIC PRESSURE WATER INFILTRATION (CONDENSATION ON INDOOR FACE OF AND COMPONENT ONLY) @ TEST PRESSURE EQUAL TO 10% POSITIVE WIND PRESSURE DESIGN BUT NOT LESS THAN 6.24 PSF PER ASTM E331-86. NO UNCONTROLLED WATER WILL BE USED FOR TEST PURPOSES.
  3. ON-THE-WATER PENETRATING STOREFRONT SYSTEM WITHIN SYSTEM BY GUTTERS, DRAIN TO EXTERIOR THROUGH WEIR HOLES. NO UNCONTROLLED WATER INFILTRATION IS ALLOWABLE.
- E. WARRANTY:
  1. DOOR HARDWARE - ONE YEAR EXCEPT FIVE YEARS ON CLOSERS.
  2. WATER TIGHTNESS OF SYSTEM - TWO YEARS.
  3. FINISH - MANUFACTURER'S STANDARD FINISH WARRANTY.
- F. ACCEPTABLE MANUFACTURERS:
  1. YKK CORP.
  2. KAWNEER CORP.
  3. PPG INDUSTRIES, INC.
  4. TISBELL MCH. PRODUCTS, INC.
  5. TIBBELT, INC.
- G. MATERIALS:
  1. DOORS, DOOR FRAME AND TRIM MOLDINGS SHALL BE EXTRUDED FROM 6063-T5 ALUMINUM ALLOY & TEMPER. ASTM B 221 ALLOY HA, 10K-15.
  2. STOREFRONT SYSTEMS SHALL BE ALUMINUM OR ALUMINUM/STEEL JOINTS. EXTRUDED GLAZERS ALL SIZES AND MISC. FASTENERS SHALL BE OF ALUMINUM, STAINLESS OR ZINC PER ASTM A164.
  3. FINISH: ELECTROLYTICALLY DEPOSITED COLOR - AA-M12C22A42/44 - STATUARY BRONZE #40 OR CLEAR ANODIZED #17 FINISH.
- H. COMPONENTS:
  1. ENTRANCE DOORS - WIDE STILES - BOT RAIL, 6 1/2" & SIDG/TOP 5".
  2. STOREFRONT - EQUAL TO TRFAB 451 (KAWNEER) - 1 3/4" x 4 1/2".
  3. ALUMINUM ENTRANCE HARDWARE:
    - a. 1 1/2" PR HEAVY DUTY PINNED HINGES (SAME FIN AS DOOR)
    - b. 1 EA. EXIT DEVICE VON DUPRIN 99N-OP
    - c. 1 EA. PUSH/PULL - P2 (KAWNEER)
    - d. 1 EA. THRESHOLD - N8P
    - e. 1 EA. CYLINDER - LCN 4400 WITH 4040 RA ADAPTER PLATE - US 28
    - f. 1 EA. CYLINDER - LCN 720 KEY OPERATED @ EXTERIOR AND THUMBTURN OPERATION ON INSIDE. FINISH TO MATCH DOORS.

DIVISION NO. 8, DOORS AND WINDOWS.  
008700 FINISH HARDWARE.

- A. ALLOWANCE:
 

AN ALLOWANCE IN THE AMOUNT OF \$10,000.00 HAS BEEN ESTABLISHED THE PURCHASE OF ALL ITEMS KNOWN COMMERCIALY AS BUILDERS HARDWARE INCLUDES REQUIRED FOR THE PROPER OPERATION OF ALL DOORS. THE ALLOWANCE INCLUDES BOND, FIELD STAIN, JAMB COSTS @ BOB SELLER METAL COSTS AND OTHER & P., EXPENSES INCURRED AS THE RESULT OF THE SELECTION UNDER ALLOWANCE SHALL BE INCLUDED IN THE BASE BID FOR PROJECT COSTS. ANY DIFFERENCE IN THE ACTUAL PURCHASE COSTS INCURRED AND THE ALLOWANCE AMOUNT WILL BE ADJUSTED LATER BY CHANGE ORDER IN THE GENERAL CONTRACT AMOUNT.

DIVISION NO. 8, DOORS AND WINDOWS.  
008900 GLASS AND GLAZING.

- A. INDUSTRY STANDARDS:
  1. ANSI SAFETY PERFORMANCE STANDARDS AND METHODS OF TESTS FOR SAFETY GLAZING MATERIALS USED IN BUILDINGS. 297.1 1984.
  2. AUI DIRECTORY, MARCH 1981 EDITION
  3. GPGC SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS, 16 CFR PART 1201, JANUARY 1986 EDITION.
  4. FOWA; GLAZING MANUAL, 1986 EDITION AND SEALANT MANUAL, 1983 EDITION.
  5. ICC ENGINEERING STANDARDS MANUAL.
  6. ICC CERTIFIED PRODUCTS DIRECTORY.
- B. WARRANTY: MANUFACTURER'S STANDARD WARRANTY, TO START @ DATE OF SUBSTANTIAL COMPLETION.
- C. MATERIALS:
  1. CLEAR TEMPERED GLASS - INTERIOR:
    - a. THICKNESS 1/2" SINGLE GLAZE; AND, 1" DOUBLE GLAZE, TINTED ASTM C104-85, KIND HT, TYPE I, CLASS 1, QUALITY G3, CONDITION A, B OR C FOR FINAL USE.
    - b. CORNER FINISH: POLYURETHANE LABEL OR BUC, LOCATED IN LOWER RIGHT HAND CORNER OF PARALLEL TO FLOOR IN INCONSPICUOUS LOCATION.
  2. DIAMOND OR MISCO MESH, ASTM C1038-85, TYPE II, CLASS 1, FORM 1, QUALITY 98, MESH M, ANSI 297.1 1984.
  3. THERMAL INSULATING UNITS:
    - a. TEMPERED UNITS W/ THERMAL BARRIER:
      - (1) INBOARD LITE: 1/4", CLEAR TEMPERED GLASS.
      - (2) OUTBOARD LITE: 1/2" TINTED, TEMPERED GLASS.
      - (3) TOTAL UNIT THICKNESS: 1"
      - (4) TINT WILL BE MFR'S STANDARD BRONZE OR GREY.
    - b. SPACER: METAL COMPLETE WITH DESICCANT; SIZE TO PRODUCE INDICATED AIR SPACE.
    - c. PRIMER SEAL: POLYISOBUTYLENE; CONTINUOUSLY APPLIED EACH SIDE OF SPACER TO BOND SPACER TO EACH LITE.
    - d. SECONDARY SEAL: SILICONE, SIMILAR TO GE SILICONE SCS 3211, SILICONE CONSTRUCTION SEALANT, BONDS TO BOTH METAL SPACER & GLASS LITE TO FORM A 3-SIDE BOND.
  4. ASSEMBLED UNIT PERFORMANCE VALUES:
    - a. CLEAR AND TINTED UNITS:
      - (1) DAYLIGHT TRANSMITTANCE: 40%
      - (2) U-VALUE:
        - (a) WINTER, NIGHT - 0.48
        - (b) SUMMER, DAY - 0.58
        - (c) SHADING COEFFICIENT - 0.58
      - (3) COMPLY WITH ASTM E774.
- D. ACCESSORIES:
  - a. SETTING BLOCKS: NEOPRENE, 70-90 DUREMETER HARDNESS, ASTM D1056-78.
  - b. GLAZING SEALANT: DOW CHEMICAL - NO. 999 SILICONE RUBBER SEALANT.
  - c. POLYURETHANE SEALANT: TREKCO INC. PROGRADE PREFORMED BUTYL OR BUTYLSOBUTYLENE TAPE, 100% SOLIDS, COLOR TO MATCH GLASS TINT.
  - d. POLYVINYL CHLORIDE FOAM TAPE - CLOSED CELL, SELF-ADHESIVE TAPE, ASTM D1667-76

DIVISION NO. 9, FINISHES.  
009280 GYPSUM BOARD SYSTEM.

- A. MATERIALS:
  1. REGULAR GYPSUM BOARD:
    - a. ASTM C-36-85
    - b. FED. SPEC. SS-1-30 D
    - c. TYPE III, GRADE R, CLASS 1, FORMS A & C.
    - d. 1/2" AND 5/8" THICKNESS, TAPERED EDGES.
  2. FIRE RESISTANT GYPSUM BOARD:
    - a. FED. SPEC. SS-1-30D
    - b. TYPE III, GRADE X, CLASS 1, FORM C.
    - c. 5/8" THICKNESS, TAPERED EDGES.
  3. WATER RESISTANT GYPSUM BOARD:
    - a. ASTM C820-85
    - b. TYPE III, GRADE W OR X, CLASS 2, 3/8" THICKNESS
    - c. REGULAR AND/OR FIRE RESISTANT GYPSUM BOARD.
  4. MANUFACTURERS:
    - a. DOWTAR GYPSUM
    - b. GEORGIA PACIFIC CORP.
    - c. GOLD BOND/NATIONAL GYPSUM CO.
    - d. US GYPSUM
  5. CONTROL JOINT:
    - a. ASTM C 1047
    - b. E-Z STRIP EXPANSION JOINT OR APPROVED EQUAL.
    - c. MAX. OF 30" BETWEEN CONTROL JOINTS.
    - d. LOCATE ABOVE IN LINE W/DOOR JAMB WHEN POSSIBLE

DIVISION NO. 9, FINISHES.  
009310 TILE:

- A. STANDARDS:
  1. ANSI - SPECS
  2. TCA - HANDBOOK
- B. MATERIALS:
  1. PRE-SELECTED BY OWNER
  2. DTL TILE - PORCELAIN PATTERN AS INDICATED IN INTERIOR COLOR SCHEDULE
- C. SCHEDULE:
  1. INTERIOR:
    - a. WOOD AND PLYWOOD: PRIME COAT & 2 GLOSS FINISH COATS OF HOUSE PAINT, W/EACH COAT @ 1.5 MILS DFT.
    - b. FERROUS METALS: METAL PRIMER @ 0.5 MILS DFT, TWO COATS INDUSTRIAL ENAMEL B54 SERIES @ 2.0 MILS DFT EACH.
    - c. GALVANIZED METAL: ACRYLIC PRIMER & TWO COATS EXTERIOR FLAT LATEX PAINT @ 1.4 MILS DFT, EACH.
  2. INTERIOR:
    - a. WOOD AND PLYWOOD: ONE COAT OF ALKID ENAMEL UNDERCOATER @ 2.0 MILS DFT AND TWO COATS OF ALKID SEMI-GLOSS ENAMEL @ 2.0 MILS DFT.
    - b. OPEN GRAINED WOOD AND PLYWOOD STAIN AND VARNISH: ONE COAT OF INTERIOR WOOD STAIN AND TWO COATS OF OIL BASE GLOSS VARNISH.
    - c. ONE COAT OF PRIMER/SEALER @ 1.4 MILS DFT AND TWO COATS OF LATEX FLAT PAINT @ 1.4 MILS DFT.
    - d. FERROUS METAL - ALKID SEMI-GLOSS PAINT: ONE COAT OF METAL PRIMER @ 3.0 MILS DFT AND TWO COATS SEMI-GLOSS ALKID PAINT @ 2.0 MILS DFT.
    - e. GALVANIZED METAL: FLAT PAINT: ONE COAT GALYTE @ 2.0 MILS DFT AND TWO COATS ALKID SEMI-GLOSS PAINT @ 2.0 MILS DFT.

DIVISION NO. 9, FINISHES.  
009680 CARPET:

- A. STANDARDS:
  1. ASTM
  2. NFPA
- B. MATERIALS:
  1. PRE-SELECTED BY OWNER
  2. MOHAWK PATTERNS AS INDICATED IN INTERIOR COLOR SCHEDULE
- C. SCHEDULE:
  1. INTERIOR:
    - a. WOOD AND PLYWOOD: PRIME COAT & 2 GLOSS FINISH COATS OF HOUSE PAINT, W/EACH COAT @ 1.5 MILS DFT.
    - b. FERROUS METALS: METAL PRIMER @ 0.5 MILS DFT, TWO COATS INDUSTRIAL ENAMEL B54 SERIES @ 2.0 MILS DFT EACH.
    - c. GALVANIZED METAL: ACRYLIC PRIMER & TWO COATS EXTERIOR FLAT LATEX PAINT @ 1.4 MILS DFT, EACH.
  2. INTERIOR:
    - a. WOOD AND PLYWOOD: ONE COAT OF ALKID ENAMEL UNDERCOATER @ 2.0 MILS DFT AND TWO COATS OF ALKID SEMI-GLOSS ENAMEL @ 2.0 MILS DFT.
    - b. OPEN GRAINED WOOD AND PLYWOOD STAIN AND VARNISH: ONE COAT OF INTERIOR WOOD STAIN AND TWO COATS OF OIL BASE GLOSS VARNISH.
    - c. ONE COAT OF PRIMER/SEALER @ 1.4 MILS DFT AND TWO COATS OF LATEX FLAT PAINT @ 1.4 MILS DFT.
    - d. FERROUS METAL - ALKID SEMI-GLOSS PAINT: ONE COAT OF METAL PRIMER @ 3.0 MILS DFT AND TWO COATS SEMI-GLOSS ALKID PAINT @ 2.0 MILS DFT.
    - e. GALVANIZED METAL: FLAT PAINT: ONE COAT GALYTE @ 2.0 MILS DFT AND TWO COATS ALKID SEMI-GLOSS PAINT @ 2.0 MILS DFT.

POWER ASSISTED ACCESSIBLE DOOR OPERATION NOTES:

DOOR NO. 01& 02 VESTIBULE AND WAITING ROOMS:  
PROVIDE THE FOLLOWING SWINGING DOOR OPERATOR AND CONTROLS WITH VISUAL, TACTILE AND AUDIO FEEDBACK. PROVIDE VISUAL FEEDBACK THROUGH LED INDICATORS, HEEDER, CONNECTING HARDWARE, ACTUATING CONTROLS. ALUMINUM OPERATOR AND CONTROLS. ALL COMPONENTS SHALL BE FACTORY ASSEMBLED, TESTED AND VERIFIED.  
THE OPERATOR SHALL OPEN THE DOOR WITH A 3/8" HP, DC MOTOR/HIGH TORQUE GEAR & ROLLER MECHANISM SHALL PROVIDE FOR A NON-SHOCK-LOAD POSITIVE OPEN & SHUT OFF. THE DRIVE SYSTEM SHALL HAVE POSITIVE CONTACT ROCKET & ELECTRICALLY REDUCING THE MOTOR VOLTAGE AND STALLING AGAINST A FIELD ADJUSTABLE 80 TO 135 DEGREE POSITIVE STOP.

THE MICROPROCESSOR CONTROLS SHALL BE FIELD ADJUSTABLE TO OPEN THE DOOR WITH A 10% OVER TORQUE. PROVIDE POSITIVE STOP, RETURNING TO FIELD ADJUSTABLE STOP. DOOR-CLOSING FORCE SHALL BE PROVIDED WITHOUT ADDING ADDITIONAL COMPONENTS. THE OPERATOR SHALL HAVE THE ABILITY TO CONVERT FROM RIGHT HAND TO LEFT HAND OPERATION WITH SIMPLE FIELD MODIFICATIONS. THE OPERATOR SHALL BE DESIGNED TO ACCOMMODATE RIGHT HAND, LEFT HAND AND CENTER POSITION. THE OPERATOR SHALL BE FIELD ADJUSTABLE TO PROVIDE A NON-HANDLED, EASILY ADJUSTABLE, OPEN STOP TO PERMIT ADJUSTABLE OPENING ANGLES FROM 80° TO 135° OF CONSTANT CYCLE UTILIZING CAM & ROLLER. THE OPERATOR SHALL BE FIELD ADJUSTABLE TO CONSISTENT OPEN AND CLOSE FROM EITHER POSITION. THE OPERATOR PROVIDES FOR FULLY CLOSED AND FULLY OPENED POSITIONS. AUXILIARY SWITCH PERMITS MONITORING THE DOOR POSITIONING.

THE OPERATOR SHALL CLOSE THE DOOR BY SPRING ENERGY. THIS USING THE MOTOR AS A BRAKE TO AID THE CLOSING SPEED. THE CLOSING SPRING SHALL BE A HELICAL COMPRESSION SPRING. THE ADJUSTABLE FOR POSITIVE CLOSING ACTION AT A LOW MATERIAL STRESS LEVEL FOR LONG SPRING LIFE. THE HELICAL COMPRESSION SPRING SHALL BE EASILY ADJUSTABLE TO ACCOMMODATE A WIDE RANGE OF DOOR WEIGHTS. SOLENOIDS OF COILS ALLOWS FOR EASY INDEPENDENT TO DOOR WEIGHTS. THE OPERATOR SHALL PROVIDE A NON-HANDLED, EASILY ADJUSTABLE, OPEN STOP TO PERMIT ADJUSTABLE OPENING ANGLES FROM 80° TO 135° OF CONSTANT CYCLE UTILIZING CAM & ROLLER. THE OPERATOR SHALL BE FIELD ADJUSTABLE TO CONSISTENT OPEN AND CLOSE FROM EITHER POSITION. THE OPERATOR PROVIDES FOR FULLY CLOSED AND FULLY OPENED POSITIONS. AUXILIARY SWITCH PERMITS MONITORING THE DOOR POSITIONING.

THE OPERATOR MAY FUNCTION AS A MANUAL DOOR CLOSER IN THE DIRECTION OF SWING WITH OR WITHOUT POWER. A CAM AND ROLLER MECHANISM SHALL ALLOW THE OPERATOR TO DELIVER AN EVEN, CONSISTENT OPEN FORCE ACROSS THE ENTIRE TRANSITION FROM DOOR FULLY CLOSED TO DOOR FULLY OPEN.  
EMERGENCY RELEASE FOR CENTER PIVOT DOORS) - NORMAL IN SITUATION THE OPERATOR SHALL BE FIELD ADJUSTABLE TO PROVIDE A POSITIVE STOP, RETURNING TO FIELD ADJUSTABLE STOP. POSITION WITHOUT MANUAL RESETTING. WHILE THE DOOR IS IN THE EMERGENCY RELEASE MODE, A DISCONNECT SWITCH SHALL PREVENT POWERED OPERATION. NO HEADER OR JAMB MOUNTED STOPS OR CAMS SHALL BE REQUIRED FOR EMERGENCY FUNCTION. NOT MORE THAN 10% OF THE DOOR WEIGHT SHALL BE REQUIRED FOR EMERGENCY USE PER ANSI A156.10.

**GENERAL NOTE:**  
TENANT IMPROVEMENTS WILL REQUIRE A VARYING AMOUNT OF IMPROVEMENTS UNDER THIS PROJECT SCOPE OF WORK. THEREFORE, SOME OF THESE EXTERIOR WORK SPECIFICATIONS MAY ONLY RELATE TO A SMALL PORTION OF THE WORK, OR IN SOME CASES NONE AT ALL.

**IMPORTANT**  
Contractor is to verify all dimensions and conditions before executing any work.

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ADPH B-07-129  
DRAWN BY:  
DATE: 12/07/07  
PROJECT NO. 0768  
REVISIONS  
REV. -  
REV. -  
Sheet No.  
**T-6**