

SECTION 074213 - METAL WALL PANELS (BRAKE METAL)

A. GENERAL: PROVIDE SHOP FORMED BRAKE METAL PANEL SYSTEM WITH ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.

B. CODES: COMPLY WITH APPLICABLE CODE LOADING REQUIREMENTS

C. SYSTEM DESIGN: DESIGN METAL PANEL SYSTEM TO PROVIDE FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS ON FASTENERS, OR OTHER DETRIMENTAL EFFECTS.

D. MANUFACTURERS: FIRM WITH MINIMUM FIVE YEARS SUCCESSFUL EXPERIENCE FABRICATING METAL PANEL SYSTEM AS INDICATED ON DRAWINGS.

E. METAL PANELS: FORMED BRAKE METAL PANELS AS INDICATED ON DRAWINGS.

1. EXTERIOR METAL: 1/4 GA. FORMED STEEL PANELS
2. INTERIOR METAL: .060 THICK, W/ CRISP BAKES
3. PLYWOOD BACKING: MINIMUM APA C-C PLUGGED EXTERIOR GRADE PLYWOOD, 3/4" THICK UNLESS OTHERWISE NOTED
4. ADHESIVE: GEI200 TO BE APPLIED IN AN "S" PATTERN
5. PANEL FINISH: THERMOSETTING ACRYLIC (BAKED ENAMEL), OR FACTORY FORMULATED POLYESTER TIG POWDER COATING MATERIALS INSTALLED FOR POWDER COATING APPLICATION
6. COLOR: AS INDICATED ON DRAWINGS, AS DIRECTED BY ARCHITECT WHERE NOT OTHERWISE INDICATED

F. SUPPORTS: CONCEALED IN FINISHED CONSTRUCTION, ASTM A36 SHAPES AND ASTM A570 AND A501 SHEET STEEL, MINIMUM 1/4 GAGE FURRING STRIPS, MINIMUM ASTM A193 OR A555 G40 GALVANIZED FINISH

G. ACCESSORIES: PROVIDE CONCEALED ANCHORS, CONCEALED FASTENERS, TRIM, AND CUSTOM PIECES AS REQUIRED FOR COMPLETE, FINISHED INSTALLATION, FREE OF RATTLES AND NOISE DUE TO THERMAL MOVEMENT AND AIR MOVEMENT.

H. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS.

SECTION 075900 - ROOF REPAIRS

A. GENERAL: REPAIR EXISTING ROOFING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION, WITH COMPONENTS AND ACCESSORIES AS REQUIRED FOR COMPLETE WEATHERTIGHT INSTALLATION.

B. STANDARDS: CONFORM TO NATIONAL ROOFING CONTRACTORS' ASSOCIATION ROOFING AND WATERPROOFING MANUAL, 4TH OR 5TH EDITION

C. WARRANTY: MAINTAIN ALL EXISTING WARRANTIES. PROVIDE FOR CORRECTING FAILURE OF ROOF REPAIRS TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD OF TWO YEARS

D. ROOFING SYSTEM: MATCH EXISTING ROOFING, NO SUBSTITUTIONS PERMITTED; PROVIDE MATERIALS CAPABLE OF MAINTAINING EXISTING WARRANTIES; CONFORM TO REQUIREMENTS OF NRCA ROOFING MANUAL.

1. SYSTEM: PROVIDE COMPLETE SYSTEM WITH ACCESSORIES AS REQUIRED FOR REPAIRS, INCLUDING INSULATION WHERE EXISTING ROOFING IS INSULATED.

E. ROOF SYSTEM REPAIRS: COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND NRCA RECOMMENDATIONS FOR ROOF TYPE SPECIFIED.

1. REMOVE EXISTING ROOFING AS REQUIRED FOR PROJECT; REMOVE ONLY AS MUCH ROOFING AS CAN BE REPLACED IN SAME DAY UNLESS OTHERWISE APPROVED IN ADVANCE BY OWNER'S PROJECT MANAGER
2. INSPECT SUBSTRATE AND ROOF DECK TO ENSURE SUBSTRATES AND DECK ARE CLEAN AND SMOOTH, FREE OF DEPRESSIONS, WAVES OR PROJECTIONS, AND ARE PROPERLY SLOPED TO DRAINS, VALLEYS, OR EAVES
3. INSULATION APPLICATION: ATTACH INSULATION IN ACCORDANCE WITH INSULATION MANUFACTURER'S INSTRUCTIONS AND NRCA RECOMMENDATIONS FOR INSTALLATION OF INSULATION ON DECK INCLUDING
4. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF COMPOSITION TYPE BASE, HALL AND FIELD FLASHINGS
5. COORDINATE METAL FLASHINGS AND COUNTERFLASHING
6. COORDINATE INSTALLATION OF ROOF DRAINS AND RELATED FLASHINGS
7. TOP IN AND SEAL FLASHINGS AND FLANGES OF ITEMS PROJECTING THROUGH MEMBERS

SECTION 076000 - FLASHING AND SHEET METAL

A. GENERAL: PROVIDE FLASHING AND SHEET METAL, REGLETS, AND ACCESSORIES AS REQUIRED FOR ROOF REPAIRS AS REQUIRED FOR COMPLETE, WEATHERTIGHT INSTALLATION.

B. STANDARDS: CONFORM TO SMACNA "ARCHITECTURAL SHEET METAL MANUAL" REQUIREMENTS FOR FLASHING AND SHEET METAL

C. DESIGN REQUIREMENTS: ALLOW FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS ON FASTENERS OR OTHER DETRIMENTAL EFFECTS, WHEN SUBJECT TO 100 YEAR SEASONAL TEMPERATURE RANGES.

D. SUBMITTALS: FURNISH PRODUCT DATA FOR MANUFACTURED PRODUCTS.

E. WARRANTY: MAINTAIN ALL EXISTING WARRANTIES. CORRECT FAILURE OF METAL FLASHING SYSTEM TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD TWO YEARS.

F. FLASHING AND SHEET METAL: MATCH EXISTING, BUT NOT LESS THAN FOLLOWING.

1. GALVANIZED METAL FLASHING: ASTM A526 GALVANIZED STEEL WITH MINIMUM 0.02 AND WITH MINIMUM G40 GALVANIZED COATING; MINIMUM 24 GAGE
2. PREFINISHED METAL FLASHING: 24 GAGE GALVANIZED STEEL WITH FACTORY FINISHED KYNAR 500 TYPE FLUOROPOLYMER COATING AND STRIPPABLE PROTECTIVE FILM; COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS
3. ALUMINUM FLASHING: ASTM B209, ALLOY AS REQUIRED TO MATCH FINISH SPECIFIED FOR OTHER ALUMINUM COMPONENTS; THICKNESS MINIMUM 0.050" AT FLASHINGS
4. STAINLESS STEEL SHEET METAL: ASTM A666, 2D ANNEALED FINISH, SOFT TEMPER EXCEPT WHERE HARDER TEMPER IS REQUIRED FOR FORMING OR PERFORMANCE, 0.015" (28 GAGE) TYPICAL
5. COPPER SHEET METAL: ASTM B370, COLD ROLLED 16 OZ. (0.0216") THICK; SOFT TEMPER WHERE REQUIRED FOR FORMING

G. REGLETS: FRY/SRINGLOK OR PM SYSTEMS/SNAP-TITE REGLETS; FABRICATE OF SAME METAL AS ADJACENT FLASHING AND SHEET METAL

H. METAL TO METAL SEALANT: BUTYL TYPE; NON-STAINING, NON-CORROSIVE, NON-SHRINKING, NON-SAGGING, AND NON-RESET AND NON-ELASTIC

I. INSTALLATION: COMPLY WITH SMACNA MANUAL.

1. INSTALL METAL FLASHING AND SHEET METAL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL; TIGHT IN PLACE, WITH CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES AS INDICATED ON DRAWINGS
2. INSTALL SEALANTS WHERE REQUIRED TO PREVENT DIRECT WEATHER PENETRATION
3. COMPLETED INSTALLATION SHALL BE FREE OF RATTLES, NOISE DUE TO THERMAL AND AIR MOVEMENT, AND WIND WHISTLES

SECTION 078100 - APPLIED FIREPROOFING

A. GENERAL: PATCH EXISTING FIREPROOFING AS REQUIRED BY APPLICABLE CODES FOR CONSTRUCTION TYPE; NO ASBESTOS PERMITTED

B. DESIGN REQUIREMENTS: PROVIDE MATERIALS CAPABLE OF ATTAINING FIRE RATINGS AS REQUIRED FOR TYPE I, FIRE RESISTIVE CONSTRUCTION

C. PERFORMANCE REQUIREMENTS: PROVIDE MATERIALS LISTED BY UL OR INDEPENDENT TESTING AND INSPECTION AGENCY ACCEPTABLE TO APPLICABLE AUTHORITIES.

1. FIRE RESISTANCE RATINGS: COMPLY WITH REQUIRED RATINGS BASED ON TESTS IN ACCORDANCE WITH ASTM E119
2. SURFACE BURNING CHARACTERISTICS: MAXIMUM 25 FLAME SPREAD AND 25 SMOKE DENSITY WHEN TESTED IN ACCORDANCE WITH ASTM E84

D. CERTIFICATE: SUBMIT MANUFACTURER CERTIFICATION INDICATING APPLICATOR ACCEPTABILITY AND MATERIAL COMPLIANCE WITH APPLICABLE CODES AND CONTRACT DOCUMENTS.

1. CERTIFICATION SHALL INDICATE NEW MATERIALS USED TO PATCH EXISTING FIREPROOFED MEMBERS AT NEW AND EXISTING WORK ARE COMPATIBLE WITH EXISTING FIREPROOFING MATERIALS AND MEET ALL PERFORMANCE REQUIREMENTS

E. QUALIFICATION OF APPLICATOR: FIRM ACCEPTABLE TO MANUFACTURER OF FIREPROOFING MATERIALS, WITH MINIMUM FIVE YEARS SUCCESSFUL EXPERIENCE ON PROJECTS OF SIMILAR SCOPE

F. MANUFACTURERS/PRODUCTS: MATCH EXISTING BUT NOT LESS THAN W.R. GRACE/ MONOKOTE OR ALUMI MANUFACTURING DIVISION STANCH/VERASPRAY

G. INSTALLATION: INSTALL IN ACCORDANCE MANUFACTURER RECOMMENDATIONS AND FIRE TEST RESULTS AS REQUIRED TO PROVIDE REQUIRED FIRE RATINGS.

1. PROTECT ADJACENT SURFACES AND EQUIPMENT FROM DAMAGE BY OVERSPRAY, FALLOUT, AND DUSTING; MASK ADJACENT WORK AS REQUIRED. CLOSE OFF AND SEAL DUCT WORK IN AREAS WHERE FIREPROOFING IS BEING APPLIED
2. CLEAN SUBSTRATE OF DIRT, DUST, GREASE, OIL, LOOSE MATERIAL, PAINTS, PRIMER, AND OTHER MATTER WHICH AFFECTS BOND OF SPRAYED FIREPROOFING
3. APPLY FIREPROOFING ON SUFFICIENT THICKNESS AND DENSITY TO ACHIEVE REQUIRED FIRE RATINGS
4. APPLY FIREPROOFING OVER SUBSTRATE, BUILDING TO REQUIRED THICKNESS WITH AS MANY PASSES OR STAGES NECESSARY TO COVER WITH MONOLITHIC BLANKET OF UNIFORM DENSITY AND TEXTURE

SECTION 078400 - FIRESTOPPING

A. GENERAL: PROVIDE PENETRATION-TYPE FIRESTOPPING FOR TIME-RATED FLOOR, WALL, AND PARTITION ASSEMBLIES CAPABLE OF PREVENTING PASSAGE OF FLAME, SMOKE AND HOT GASES.

B. CODES: CONFORM TO APPLICABLE CODE REQUIREMENTS FOR BOTH F AND T RATINGS.

C. STANDARDS: PASS ASTM E814 THROUGH-PENETRATION FIRE STOPS, ASTM E181 FIRE TESTS AND ASTM E84 FLAME SPREAD/SMOKE CONTRIBUTION MAXIMUM 25/25.

D. SUBMITTALS: FURNISH SHOP DRAWINGS, PRODUCT DATA, AND CERTIFICATES OF COMPLIANCE WITH CONTRACT DOCUMENTS AND APPLICABLE CODES.

E. MANUFACTURERS: 3M/FIRE BARRIER, STUPECESEAL OR PENSLI, OR HILTI/FIRESTOP SYSTEMS.

F. GENERAL: CHOOSE PRODUCTS AND METHODS MEETING APPLICABLE CODES AND SPECIFICATION REQUIREMENTS FOR EACH FIRESTOPPING APPLICATION, SUBJECT TO OWNER'S PROJECT MANAGER'S ACCEPTANCE

G. FIRESTOPPING MATERIALS: FURNISH MATERIALS FOR PENETRATIONS IN TIME-RATED FLOOR, WALL, AND PARTITION ASSEMBLIES CAPABLE OF PREVENTING PASSAGE OF FLAME, SMOKE, AND HOT GASES.

1. PENETRATION TEST: FURNISH MATERIALS PASSING ASTM E814 FOR PENETRATION FIRE STOPPING INDICATING MAINTENANCE OF TIME-RATED ADJACENT ASSEMBLIES.
2. FIRESTOPPING MAINTAIN FIRE RATING OF ASSEMBLY IN WHICH FIRESTOPPING IS INSTALLED, SUCH AS FLOOR, PARTITION, OR WALL, IN ACCORDANCE WITH ASTM E119 TESTS

H. INSTALLATION: INSTALL IN ACCORDANCE MANUFACTURER RECOMMENDATIONS AND FIRE TEST RESULTS AS REQUIRED TO PROVIDE REQUIRED FIRE RATINGS.

1. FIELD INSPECTIONS: MAINTAIN COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS AT EACH WORK AREA

SECTION 079200 - JOINT SEALANTS

A. GENERAL: PROVIDE EXTERIOR AND INTERIOR JOINT SEALERS NOT PROVIDED ELSEWHERE; TYPE SUITABLE FOR APPLICATION INDICATED WITH ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.

B. INSTALLER QUALIFICATIONS: FIRM WITH MINIMUM FIVE YEAR'S SUCCESSFUL EXPERIENCE ON PROJECTS OF SIMILAR TYPE AND SIZE, USING SPECIFIED PRODUCTS.

C. WARRANTY: REPAIR OR REPLACE JOINT SEALERS WHICH FAIL TO PERFORM AS INTENDED, BECAUSE OF LEAKING, CRACKING, HARDENING, SINKING, BLEEDING, SAGGING, STAINING AND LOSS OF ADHESION; WARRANTY PERIOD TWO YEARS.

D. EXTERIOR NON-TRAFFIC JOINTS: GE/SILPRUF SC52700, DOW/740 OR 796; OR PECORA/B64, LOW MODULUS SILICONE SEALANT.

E. TRAFFIC BEARING JOINTS: HANCOCK/VULKEM 245, OR PECORA/NR-200 UREXPAH, MULTI-COMPONENT POLYURETHANE, SELF-LEVELING JOINT SEALER.

F. MILDEW-RESISTANT SANITARY SEALANTS: GE/SANITARY SEALANT, DOW/BATHTUB CAULK, OR PECORA/B48 TRU-WHITE; PROVIDE AT INTERIOR AREAS WHERE SEALANT WILL BE EXPOSED TO WATER.

G. GENERAL: INTERIOR LATEX OR ACRYLIC EMULSION JOINT SEALER: PECORA/AC-20; SONNEBORN/SONOLAC

H. MISCELLANEOUS MATERIALS: PRIMERS, SEALERS, JOINT CLEANERS, BOND BREAKER TAPE, AND SEALANT BACKER RODS AS RECOMMENDED BY SEALANT MANUFACTURER FOR APPLICATION INDICATED

1. OVERSIZE BACKER ROD MINIMUM 30% TO 50% OF JOINT OPENING

COLORS: AS INDICATED OR AS SELECTED BY OWNER'S PROJECT MANAGER FROM

J. PREPARATION: CLEAN JOINT SURFACES IMMEDIATELY BEFORE INSTALLATION OF JOINT SEALER, AND PRIME OR SEAL JOINT SURFACES AS RECOMMENDED BY MANUFACTURER.

K. INSTALLATION: COMPLY WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND ASTM C1193

1. EMPLOY INSTALLATION TECHNIQUES WHICH WILL ENSURE JOINT SEALERS ARE DEPOSITED IN UNIFORM, CONTINUOUS RIBBONS WITHOUT GAPS OR AIR POCKETS, WITH COMPLETE "WETTING" OF BOND SURFACES

SECTION 079513 - EXPANSION JOINT COVER ASSEMBLIES

A. GENERAL:

1. JOINT COVER SYSTEMS SHALL ALLOW UNRESTRAINED MOVEMENT OF JOINT WITHOUT DISENGAGEMENT OF COVER
2. JOINT SIZES SHALL BE AS INDICATED ON DRAWINGS
3. FIRE RATING CHARACTERISTICS
4. PREFABRICATED FIRE BARRIER ASSEMBLIES SHALL HAVE FIRE RATING NOT LESS THAN THE RATING OF ADJACENT CONSTRUCTION WHICH IS TESTED IN ACCORDANCE WITH UL 243, ANSI A21.1, NFPA 901, OR ASTM E1363, AND ASTM E819
5. SYSTEM SHALL BE CAPABLE OF ANTICIPATED MOVEMENT WHILE MAINTAINING FIRE RATING
6. PROVIDE MANUFACTURERS STANDARD ONE YEAR WORKMANSHIP WARRANTY

B. PRODUCTS:

1. FIRM'S SYSTEMS CORPORATION TWO PM SYSTEMS, BOX 98, PANDERGRASS, GEORGIA 30671, 1.800.241.3460 OR 1.800.241.3460, OR EQUAL AS APPROVED BY LSJMC PROJECT MANAGER AND ARCHITECT; SUBMIT FOR REVIEW OF EQUAL PRODUCT
2. PRODUCTS JOINT SIZES AS INDICATED ON DRAWINGS. REFER TO MANUFACTURER FOR CORRESPONDING MODEL NUMBER:
 - a. GYPSUM BOARD CEILING CONDITION - FLEXIBLE WALL & CEILING VSM CEILING
 - b. ACT CEILING CONDITION - FLEXIBLE WALL & CEILING VSG SERIES
 - c. FLOOR TO WALL CONDITION - FLUSHLINE FSE SERIES
 - d. FLOOR TO FLOOR CONDITION - FLUSHLINE FFS SERIES
 - e. FLOOR TO FLOOR CONDITION - FLUSHLINE FFS SERIES
 - f. FLOOR TO WALL CONDITION - FLUSHLINE FFWL SERIES
 - g. FLOOR TO WALL CONDITION - FLUSHLINE FFS2E SERIES
 - h. CARPET TO CARPET CONDITION - FLUSHLINE FFS2E SERIES
3. FINISH: ALL FINISH ALUMINUM FRAMES WITH COLORS AS INDICATED ON DRAWINGS; ALUMINUM HALL COVERS TO BE CLEAR ANODIZED ALUMINUM

C. EXECUTION

1. STAFFE SURFACE TO RECEIVE EXPANSION JOINT SYSTEM IN ACCORD WITH MANUFACTURER'S PRODUCT DATA AND WITH SHOP DRAWINGS
2. INSTALL EXPANSION JOINT ASSEMBLIES IN ACCORDANCE WITH MANUFACTURER'S PRODUCT DATA AND APPROVED SHOP DRAWINGS
3. CLEAN AND PROTECT EXPANSION JOINT COVER ASSEMBLIES FROM CONSTRUCTION TRAFFIC

DIVISION 08: DOORS AND WINDOWS

SECTION 08100 - METAL DOORS AND FRAMES

A. GENERAL: PROVIDE STEEL DOORS AND FRAMES AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION; COORDINATE WITH SECTION 08700 - DOOR HARDWARE.

B. STANDARDS: COMPLY WITH STEEL DOOR INSTITUTE "STANDARD STEEL DOORS AND FRAMES OR NAAMM HOLLOW METAL MANUFACTURERS ASSOCIATION HOLLOW METAL MANUAL."

1. FIRE RATED STANDARDS: FURNISH MATERIALS TESTED, LABELED AND INSPECTED BY UL, HARNOK HERSEY, OR TESTING AGENCY ACCEPTABLE TO APPLICABLE AUTHORITIES
2. SUBMITTALS: SUBMIT PRODUCT DATA
3. MANUFACTURERS: AMPELCO, CECO, PIONEER, OR APPROVED EQUAL
4. HOLLOW METAL DOORS: FLUSH HOLLOW METAL DOORS FULL FLUSH TYPE; SDI MODEL 1, NAAMM TYPE B FULL FLUSH WITH UNFILLED EDGE; CLOSE TOP AT EXTERIOR DOORS

1. CORE: PROVIDE STEEL STIFFENED CORE; INSULATED AT EXTERIOR DOORS
2. GAGE: PROVIDE MINIMUM 18 GAGE AT INTERIOR DOORS, MINIMUM 16 GAGE AT EXTERIOR DOORS
3. PRESSED STEEL (HOLLOW METAL) FRAMES: MINIMUM 16 GAGE KNOCK-DOWN (FIELD-ASSEMBLED) FRAMES
4. FIRE RATED UNITS: CONFORM TO NFPA 80; PROVIDE UL OR HARNOK HERSEY LABELED DOORS AND FRAMES AS REQUIRED
5. ACCESSORIES: PROVIDE DOOR SILENCERS, ANCHORS, AND ACCESSORIES
6. INSTALLATION: CONFORM TO REQUIREMENTS OF UL OR NAAMM
7. DOOR SILENCERS: PLACE MINIMUM THREE SINGLE BUMPERS ON SINGLE DOOR FRAMES; SPACE EQUALLY ALONG STRIKE JAMBS; PLACE TWO SINGLE BUMPERS ON DOUBLE DOOR FRAME HEADS
8. FINISH: PRIME PAINT INTERIOR UNITS; GALVANIZE AND PRIME PAINT EXTERIOR UNITS; MINIMUM A60 GALVANIZING; CLEAN, DEGREASE AND FACTORY PRIME PAINT

K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND EITHER SDI OR NAAMM STANDARDS.

1. INSTALL FIRE RATED UNITS IN CONFORMANCE WITH FIRE LABEL, REQUIREMENTS AND NFPA 80
2. INSTALL DOORS AND FRAMES PLUMB AND SQUARE, AND WITH MAXIMUM DIAGONAL DISTORTION OF 1/16"

SECTION 081400 - WOOD DOORS

A. GENERAL: INSTALL WOOD DOORS AND WOOD DOOR FRAMES AS REQUIRED FOR COMPLETE INSTALLATION; COORDINATE WITH HARDWARE IN SECTION 08700.

B. STANDARDS: COMPLY WITH NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWDA) INDUSTRY STANDARDS FOR WOOD DOORS

C. PROJECT CONDITIONS: DO NOT DELIVER OR INSTALL DOORS UNTIL CONDITIONS FOR TEMPERATURE AND RELATIVE HUMIDITY HAVE BEEN ESTABLISHED IN ACCORDANCE WITH REFERENCED STANDARDS REQUIREMENTS APPLICABLE TO PROJECT LOCATION

D. WARRANTY: PROVIDE FOR REBANDING WOOD DOORS EXHIBITING DEFECTS IN WORKMANSHIP; WARRANTY PERIOD TWO YEARS

E. INSTALLATION: INSTALL WOOD DOORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS, AND REFERENCE STANDARDS, PLUMB AND SQUARE, AND WITH MAXIMUM DIAGONAL DISTORTION OF 1/16"

F. PROTECTION: PROTECT DOORS AS RECOMMENDED BY DOOR MANUFACTURER TO ENSURE DOORS ARE WITHOUT DAMAGE AT TIME OF SUBSTANTIAL COMPLETION.

SECTION 083100 - ACCESS DOORS AND PANELS

A. GENERAL: PROVIDE ACCESS DOORS AS REQUIRED FOR ACCESS TO VALVES AND CONTROLS LOCATED BEHIND FINISHED WALLS AND CEILINGS NOT OTHERWISE ACCESSIBLE, WITH ACCESSORIES FOR COMPLETE INSTALLATION.

B. SUBMITTALS: FURNISH PRODUCT DATA FOR EACH TYPE OF ACCESS DOOR AND PANEL.

1. COORDINATE WITH VARIOUS TRADES FOR CONTROLS AND VALVES WHICH MAY BE CONCEALED

C. MANUFACTURERS: MILCOR, J.I. INDUSTRIES, OR KARP

D. TYPE: FLUSH TYPE AT NON FIRE RATED CONSTRUCTION, STANDARD UL APPROVED FRAMED TYPE AT FIRE RATED CONSTRUCTION; KEY OPERATED

1. FRAMES: FABRICATE FROM MINIMUM 1/4 GAGE
2. DOORS: FLUSH PANEL TYPE, FABRICATE FROM MINIMUM 1/4 GAGE STEEL

E. HINGE: PROVIDE CONTINUOUS PIANO TYPE HINGE

F. FINISH: FINISH WITH MANUFACTURER'S FACTORY-APPLIED ENAMEL PRIME COAT APPLIED OVER PHOSPHATE COATING ON STEEL

G. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS

1. SET FRAMES ACCURATELY IN POSITION AND SECURELY ATTACH TO SUPPORTS WITH FACE PANELS PLUMB OR LEVEL IN RELATION TO ADJACENT FINISH SURFACES
2. ADJUST HARDWARE AND DOORS AFTER INSTALLATION FOR PROPER OPERATION
3. REMOVE AND REPLACE DOORS OR FRAMES WHICH ARE WARPED, BOWED OR OTHERWISE DAMAGED

SECTION 083326 - OVERHEAD COILING GRILLES

A. GENERAL: INSTALL OWNER FURNISHED OVERHEAD COILING GRILLES WITH ACCESSORIES AS REQUIRED FOR COMPLETE OPERATIONAL INSTALLATION

B. ACCESSORIES: COORDINATE EXTENT OF ACCESSORIES FURNISHED WITH OVERHEAD COILING GRILLES; PROVIDE ADDITIONAL MATERIALS AS REQUIRED FOR COMPLETE OPERATIONAL INSTALLATION

C. INSTALLATION: COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS

1. FIT ALGIN, LUBRICATE, AND ADJUST GRILLE ASSEMBLIES LEVEL AND PLUMB, AND TO PROVIDE SMOOTH OPERATION

SECTION 084113 - ALUMINUM FRAMED ENTRANCES AND STOREFRONTS (EXTERIOR)

A. GENERAL: PROVIDE EXTRUDED ALUMINUM ENTRANCE SYSTEM WITH DOORS, FRAMES, HARDWARE, AND ACCESSORIES AS REQUIRED FOR COMPLETE WEATHERTIGHT INSTALLATION

B. STANDARDS: COMPLY WITH ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA) "ALUMINUM STORE FRONT AND ENTRANCE MANUAL"

C. CODES AND REGULATIONS: COMPLY WITH APPLICABLE CODES AND REGULATIONS

D. SUBMITTALS: FURNISH MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND SAMPLES FOR APPROVED EQUALS

E. STRUCTURAL CERTIFICATES: PROVIDE CERTIFICATION BY STATE REGISTERED ENGINEER INDICATING SYSTEM COMPLIES WITH CONTRACT DOCUMENTS AND APPLICABLE CODES

F. SPECIAL PROJECT WARRANTY: PROVIDE FOR CORRECTING FAILURES INCLUDING WIND DAMAGE AND WATER PENETRATION TO INTERIOR SURFACES, EXCESSIVE DEFLECTIONS, AND DETEIORATION OF FINISHES, WEATHERSTRIPPING AND ACCESSORIES; SPECIAL WARRANTY PERIOD TWO YEARS

G. MANUFACTURER: SEE ARCHITECTURAL DRAWINGS

H. STOREFRONT: EXTRUDED ALUMINUM ENTRANCE SYSTEM AS INDICATED ON DRAWINGS

1. ALUMINUM TYPE: AS RECOMMENDED BY MANUFACTURER FOR APPLICATION INDICATED, BUT NOT LESS THAN EXTRUDED ALUMINUM, ASTM B221, 6061 OR 6063 ALLOY, 1024 OR 16 TEMPER
2. STOREFRONT FINISH: MANUFACTURER'S FINISH AS INDICATED ON DRAWINGS

I. GLAZING: SEE SECTION 084100

J. GLAZING ACCESSORIES: SEE SECTION 084100

K. MISCELLANEOUS MATERIALS:

1. STEEL REINFORCEMENT AND BRACKETS: MANUFACTURER'S STANDARD WITH MINIMUM 2 OZ. NOT-DIP ZINC COATING, APPLYING TO ALL EXPOSED SURFACES
2. BITUMINOUS PAINT: COLD-APPLIED ELASTIC, 55PC PAINT 12, COMPOUNDED FOR 30 MIL THICKNESS PER COAT
3. FLASHING: PROVIDE SUB-FLASHING MEMBERS; MINIMUM 22 GAGE SHEET ALUMINUM OF SIZES AND SHAPES REQUIRED AND AS REQUIRED TO DRAIN WATER TO EXTERIOR; MATCH ADJACENT ALUMINUM MEMBER FINISH
4. ANCHORING DEVICES: DESIGN RESISTANT TYPE CAPABLE OF SUPPORTING ENTRANCE SYSTEM AND SUPERSEDES DESIGN LOADS; DESIGN TO ALLOW ADJUSTMENTS OF SYSTEM PRIOR TO WORK PERMANENTLY FASTENED IN PLACE
5. JOINT SEALANTS: SEE SECTION 079200

L. FABRICATION: FABRICATE ALUMINUM ENTRANCE AND STOREFRONT SYSTEM TO ALLOW FOR CLEARANCES AND SPACINGS AROUND PERIMETER OF ASSEMBLIES TO ENABLE INSTALLATION FOR PROPER THERMAL MOVEMENT

1. ACCURATELY FIT TOGETHER JOINTS AND CORNERS; MATCH COMPONENTS ENSURING CONTINUITY OF LINE AND DESIGN; ENSURE JOINTS AND CONNECTIONS ARE FLUSH, MAINTAIN WEATHERPROOF
2. SEPARATE MISSIMILAR MATERIALS WITH BITUMINOUS PAINT OR PREFORMED SEPARATORS WHICH WILL PREVENT CORROSION

M. INSTALLATION: INSTALL ALUMINUM FRAMED STOREFRONT ASSEMBLIES, INCLUDING EXTERIOR GLAZING WITH FRAMES WITH MANUFACTURER'S RECOMMENDATIONS AND TO MEET DESIGN REQUIREMENTS INDICATED, FOR WEATHERTIGHT INSTALLATION.

1. ENSURE ASSEMBLIES ARE PLUMB, LEVEL AND FREE OF WARP OR THIRT; MAINTAIN DIMENSIONAL TOLERANCES AND ALIGNMENT WITH ADJACENT WORK
2. USE SUFFICIENT ANCHORAGE DEVICES TO SECURELY AND RIGIDLY FASTEN ASSEMBLIES TO BUILDING
3. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, USING PROPER TEMPLATES. COORDINATE INSTALLATION OF CYLINDERS WITH SECTION 08700
4. INSTALL SILL MEMBERS AND THRESHOLDS IN BED OF COMPOUND, JOINT FILLERS OR GASKETS TO PROVIDE WEATHERTIGHT CONSTRUCTION
5. GLASS INSTALLATION: COMPLY WITH GANA GLAZING MANUAL AND GLAZING MANUFACTURER INSTRUCTIONS; DO NOT ALLOW GLASS TO TOUCH METAL SURFACES

SECTION 084126 - ALL-GLASS ENTRANCES AND STOREFRONTS

A. GENERAL: SECTION INCLUDES: PROVIDE SAFETY FRAMELESS ALL-GLASS ENTRANCES AND STOREFRONTS, INCLUDING SAFETY GLASS DOORS, RELATED HARDWARE, ADJACENT GLAZING AND ACCESSORIES AS REQUIRED FOR COMPLETE, OPERATIONAL INSTALLATION. RELATED WORK: SECTION 08700: CYLINDERS FOR DOOR LOCKS

B. REFERENCES

1. GLASS ASSOCIATION OF NORTH AMERICA (GANA): GLAZING MANUAL
2. BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA): BHMA 1301/ ANSI A56.18, STANDARDS FOR MATERIALS AND FINISHES

C. SYSTEM DESCRIPTION

1. PERFORMANCE REQUIREMENTS: PROVIDE ASSEMBLIES CAPABLE OF WITHSTANDING MINIMUM UNIFORM TEST PRESSURE OF 20 PSF INWARD AND OUTWARD PRESSURE WHEN TESTED IN ACCORDANCE WITH ASTM E530

D. SUBMITTALS

1. PRODUCT DATA: FURNISH MANUFACTURER'S LITERATURE
2. SHOP DRAWINGS: INDICATE COMPONENT DETAILS, MATERIALS, FINISHES, DIMENSIONS, HARDWARE AND FITTINGS, AND METHOD OF ANCHORAGE
3. SAMPLES: FURNISH SAMPLES OF METAL FINISH

E. QUALITY ASSURANCE

1. INSTALLER QUALIFICATIONS: FIRM WITH MINIMUM FIVE YEARS SUCCESSFUL EXPERIENCE IN INSTALLATION OF ENTRANCES SIMILAR TO THOSE SPECIFIED; APPROVED BY SYSTEM MANUFACTURER
2. REGULATORY REQUIREMENTS: COMPLY WITH REQUIREMENTS OF APPLICABLE BUILDING CODES AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) TO ENSURE ACCESS TO PERSONS WITH DISABILITIES

F. PROJECT CONDITIONS

1. CHECK OPENINGS BY FIELD MEASUREMENTS BEFORE FABRICATION TO ENSURE PROPER FITTING AND TIGHT JOINTS
2. COORDINATE FABRICATION WITH SHOP DRAWINGS OF ADJACENT CONSTRUCTION WHERE NECESSARY TO AVOID DELAYS

G. MANUFACTURERS

1. SEE ARCHITECTURAL DRAWINGS
2. SUBSTITUTIONS: REFER TO SECTION 016200

H. MATERIALS:

1. ALL-GLASS ENTRANCE SYSTEMS: PROVIDE COMPLETE SYSTEM.
 - a. GLASS: NOT LESS THAN NOMINAL 1/2" THICK OR AS INDICATED ON DRAWINGS, CLEAR TEMPERED, SELECT GLAZING QUALITY CLEAR TEMPERED GLASS COMPLYING WITH ASTM C1048, KIND FT.
 1. SAFETY GLASS: CONFORM TO ANSI Z97.1 AND APPLICABLE CODES AND REGULATIONS
 2. PROVIDE HORIZONTALLY TEMPERED GLASS WITHOUT TONG MARKS, VERTICAL TEMPERING PERMITTED ONLY WHERE TONG MARKS CAN BE TOTALLY CONCEALED IN FINISHED INSTALLATION
 3. POLISH SIDE EDGES TO BE EXPOSED OR TO RECEIVE SEALANT; CUT GLASS TO FIT RATES NECESSARY TO PROVIDE EVEN, 1/8" JOINTS WITHIN PLUS OR MINUS 1/16"
 4. DOOR FITTINGS: PROVIDE CUSTOM "PATCH" TYPE FITTINGS AS INDICATED ON DRAWINGS AND AS REQUIRED TO SUPPORT DOORS
1. FINISH: REFER TO DOOR SCHEDULE
2. FRAMES: GLASS DOOR HARDWARE: MANUFACTURER'S STANDARD METAL AND FINISH TO MATCH DOOR SALLS, UNLESS OTHERWISE INDICATED. REFER TO ARCHITECTURAL DRAWINGS
3. ANCHORAGES AND FASTENINGS: MANUFACTURER'S STANDARD TYPES, CONCEALED EXCEPT AS OTHERWISE REQUIRED; FINISH EXPOSED FASTENERS TO MATCH ADJACENT METAL SURFACES
4. SEALANT: HIGH MODULUS STRUCTURAL SILICONE DESIGNED FOR STRUCTURAL GLAZING.
 1. SEALANT COLOR: CLEAR
 2. MANUFACTURERS:
 - a. DOW CORNING/SILICONE RUBBER SEALANT 999
 - b. CECORA/663 GLAZING SILICONE
 - c. TREK/CYPROGLAZE SILICONE
 3. SUBSTITUTIONS: REFER TO SECTION 01630
1. SIDELIGHT GLAZING CHANNELS: FINISH TO MATCH DOOR PATCHES, SIZED AS REQUIRED TO SUPPORT GLASS;
 1. EXPOSED FINISH: MATCH FINISH FOR DOOR SYSTEM

J. FABRICATION

1. LOCATE AND PROVIDE HOLES AND CUTOUTS TO RECEIVE HARDWARE BEFORE TEMPERING GLASS; DO NOT PERMIT CUTTING, DRILLING OR OTHER GLASS ALTERATIONS AFTER TEMPERING
2. POLISH EXPOSED ENDS OF GLASS; ROUND EDGES SLIGHTLY
3. FABRICATE ALL-GLASS ENTRANCE SYSTEM TO ACCOMMODATE REQUIRED HARDWARE AND ACCESSORY ITEMS
4. INSTALL HARDWARE AT FABRICATION PLANT; REMOVE ONLY AS REQUIRED FOR FINAL FINISHING OPERATIONS, AND FOR DELIVERY AND INSTALLATION OF WORK AT PROJECT SITE

K. EXAMINATION

1. EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE INSTALLED
2. BEGINNING INSTALLATION SIGNIFIES ACCEPTANCE OF CONDITIONS

L. INSTALLATION

1. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS
 - a. INSTALL GLAZING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND GANA GLAZING MANUAL
2. SET UNITS PLUMB, LEVEL AND TRUE TO LINE, WITHOUT WARP OR RACK; ANCHOR SECURELY IN PLACE
3. SEPARATE ALUMINUM AND OTHER CORRODIBLE METAL SURFACES FROM SOURCES OF CORROSION OR ELECTROLYTIC ACTION AT POINTS OF CONTACT WITH OTHER MATERIALS

M. ADJUSTING: ADJUST OPERATING HARDWARE TO ENSURE PROPER OPERATION

N. CLEANING: CLEAN SURFACES USING MANUFACTURER'S RECOMMENDED CLEANING METHODS

SECTION 08700 - DOOR HARDWARE

A. GENERAL: PROVIDE DOOR HARDWARE FOR HOLLOW METAL DOORS AND FOR WOOD DOORS, AND PROVIDE CYLINDERS FOR DOORS PROVIDED WITH HARDWARE, AND ACCESSORIES AS REQUIRED FOR COMPLETE OPERATIONAL DOOR INSTALLATIONS.

B. STANDARDS: COMPLY WITH BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA) ANSI/BHMA 166 SERIES STANDARDS

C. CODES AND REGULATIONS: COMPLY WITH STATE AND FEDERAL REQUIREMENTS FOR ENSURING ACCESS FOR PERSONS WITH DISABILITIES.

1. FIRE RATED DOORS: COMPLY WITH REQUIREMENTS OF NFPA 80 AND APPLICABLE CODES FOR FIRE RATED DOOR HARDWARE; PROVIDE HARDWARE BEARING UNDERWRITERS LABORATORY (UL) LABELS
2. SUBMITTALS: FURNISH SHOP DRAWINGS, PRODUCT DATA INCLUDING KEYING SCHEDULE, AND SAMPLES OF EACH REQUIRED STYLE AND FINISH
1. SUPPLY TEMPLATES TO DOOR AND FRAME MANUFACTURERS FOR PROPER AND ACCURATE SIZING AND LOCATIONS OF CUT-OUTS FOR HARDWARE

E. GENERAL MATERIALS: PROVIDE COMPLETE HARDWARE WITH ACCESSORIES AS REQUIRED FOR DOORS AND APPLICATIONS INDICATED AND NOT PROVIDED UNDER OTHER SECTIONS.

F. HINGES: HAGER, LAWRENCE, KIMMNEY, OR STANLEY; FULL MORTISED BUTT HINGES; SIZE AND NUMBER AS RECOMMENDED BY MANUFACTURER; NONREMOVABLE PINS AT EXTERIOR OUTSWINGING DOORS; BALL-BEARING HINGES AT FIRE RATED DOORS AND DOORS WITH CLOSERS

G. LOCKSETS/LATCHSETS: SCHLAGE, SARGENT, YALE, SIMPLEX OR U-CHARGE; FULL MORTISE LOCKSETS TYPICAL AT DOORS TO PUBLIC AREAS, CYLINDRICAL LOCKSETS AND LATCHSETS TYPICAL AT OTHER LOCATIONS; SOLID LEVER TYPE WITH ROSE, KEYING AS DIRECTED BY OWNER; PROVIDE CYLINDERS FOR DOORS FURNISHED WITH LOCKS. (U CHANGE / SECURITY SYSTEMS CUSTOMER SERVICE: 1-800-293-5625).

H. PUSHBUTTON ACCESS CONTROL LOCKSET MANUFACTURER: SIMPLEX 11071 AT SPECIAL PUBLIC DOOR ROOM ONLY; KEY OVERRIDE, PRIVACY FUNCTION, HANDLE STYLE M LEVER, FINISH 26 SATIN CHROME, PACKAGING 41 - 1 PER BOX. USE ONLY IF DWGS. SPECIFY.

OVERHEAD CLOSERS: LCN/4000 SERIES OR NORTON/7500 FULLY ADJUSTABLE; MODERN TYPE WITH COVER

J. ACCESSORIES: PROVIDE DOOR STOPS, THRESHOLDS, WEATHERSTRIPPING, TRIM, COORDINATORS AND ACCESSORIES AS REQUIRED FOR COMPLETE OPERATIONAL DOOR INSTALLATION

1. THRESHOLDS, STOPS, TRIM, AND MISCELLANEOUS HARDWARE: PROVIDE AS INDICATED, AS SPECIFIED, AS INCLUDED IN HARDWARE SCHEDULE, AND AS REQUIRED FOR PROPER OPERATION
2. WEATHERSTRIPPING: PROVIDE CONTINUOUS WEATHERSTRIPPING AT TOP AND SIDES OF EXTERIOR DOORS
3. FIRE RATED GASKETS: PROVIDE CONTINUOUS FIRE RATED GASKETS AT TOP AND SIDES OF FIRE RATED DOORS
4. THROUGH BOLTS: THROUGH BOLTS AND GROMMET NUTS SHALL BE AVOIDED ON DOOR FACES IN HIGHLY VISIBLE AREAS, UNLESS NO ALTERNATIVE IS POSSIBLE, AS DIRECTED AND APPROVED, AND SHALL NOT BE USED FOR SOLID WOOD CORE DOORS

K. FINISH: BHMA 626 (US26D), SATIN FINISHED CHROMIUM PLATED UNLESS OTHERWISE INDICATED

L. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS, BHMA, AND APPLICABLE REQUIREMENTS FOR ACCESS AND FOR FIRE RATINGS

1. FIT HARDWARE PRIOR TO PAINTING, THEN REMOVE FOR PAINTING OF DOORS AND FRAMES BEFORE FINAL INSTALLATION OF HARDWARE
2. HEIGHTS TO COMPLY WITH APPLICABLE CODES AND BHMA RECOMMENDATIONS

3. HARDWARE GROUPS: REFER TO DRAWINGS

SECTION 088100 - GLASS GLAZING

A. GENERAL: PROVIDE FULLY TEMPERED GLASS AND G.C. FURNISHED FILM ON GLASS (AS REQUIRED); GLASS THICKNESS SHALL BE PER ARCHITECTURAL DRAWINGS. PROVIDE GLAZING ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION

B. STANDARDS: COMPLY WITH GLASS ASSOCIATION OF NORTH AMERICA (GANA) "GLAZING MANUAL"

C. CODES: SAFETY GLAZING SHALL COMPLY WITH CONSUMER PRODUCT STANDARD 16 CFR 1201, CATEGORY II, AND SHALL HAVE PASSED ANSI Z97.1, CLASS A

D. MANUFACTURERS: PILKINGTON LOF, GUARDIAN, OR PPG

E. GLAZING: ASTM C1048, KIND FT, FULLY TEMPERED SELECT GLAZING QUALITY CLEAR FLOAT GLASS; NOMINAL 1/2" SAFETY GLASS OR 3/4" THICK TEMPERED INDICATED

1. INTERIOR: 1/2" OR 5/8" OR 3/4" THICK TEMPERED GLAZING, AS INDICATED ON DRAWINGS
2. EXTERIOR: 1" TEMPERED INSULATED WITH DUAL SEAL (MAKEUP: 1/4" CLEAR TEMPERED, 1/2" SPACER, 1/4" CLEAR TEMPERED)
3. EXPOSED AND BUTT EDGES: SAND POLISHED EDGE
4. CORNER EDGES: LAP-JOINT CORNERS WITH EXPOSED EDGES POLISHED

F. GLAZING SEALANT: ONE COMPONENT SILICONE GLAZING SEALANT; PROVIDE AS RECOMMENDED BY SEALANT MANUFACTURER; COORDINATE CHANNELS WITH SHOP DRAWINGS OF ADJACENT CONSTRUCTION WHERE NECESSARY TO AVOID DELAYS

G. SETTING BLOCKS AND SPACERS: NEOPRENE OR EPDM, SILICONE COMPATIBLE WHERE IN CONTACT WITH SILICONE SEALANT

H. PREPARATION: CLEAN GLAZING CHANNELS AND FRAMING MEMBERS TO RECEIVE GLASS IMMEDIATELY BEFORE GLAZING; REMOVE COATINGS NOT FIRMLY BONDED TO SUBSTRATE

INSTALLATION: COMPLY WITH GANA GLAZING MANUAL AND SEALANT MANUAL AND GLAZING MANUFACTURER INSTRUCTIONS

1. DO NOT ALLOW GLASS TO TOUCH METAL SURFACES
2. COMPLY WITH NFPA 80 FOR GLASS IN FIRE RATED OPENINGS
3. PLACE SETTING BLOCKS AT QUARTER POINTS IN THIN COUSE OF SEALANT

4. INSTALL REMOVABLE STOPS WITH GLASS CENTERED IN SPACE WITH SPACER SHIMS AT 2'-0" INTERVALS ON BOTH SIDES OF GLASS, 1/4" BELOW SIGHTLINE

5. SEALANT GLAZING: FILL GAP BETWEEN GLASS AND STOPS WITH SEALANT TO DEPTH EQUAL TO BITE OF FRAME ON GLASS BUT NOT MORE THAN 3/8" BELOW SIGHTLINE

SECTION 088300 - MIRRORS

PART 1 - GENERAL

1. SUMMARY:
 - a. THIS SECTION INCLUDES NEW WALL MOUNTED GLASS MIRRORS.
2. QUALITY ASSURANCE:
 - a. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED MIRROR GLAZING SIMILAR IN MATERIAL DESIGN AND EXTENT TO THAT INDICATED; WHOSE WORK HAS RESULTED IN MATERIAL INSTALLATIONS WITH A RECORD OF NOT MORE THAN 5 YEARS OF SUCCESSFUL IN-SERVICE PERFORMANCE
 - b. SOURCE LIMITATIONS FOR GLAZING ACCESSORIES: OBTAIN GLAZING ACCESSORIES FROM ONE SOURCE FOR EACH TYPE OF ACCESSORY INDICATED
 - c. GLAZING PUBLICATIONS: COMPLY WITH THE APPLICABLE RECOMMENDATIONS OF THE FOLLOWING, WHERE RECOMMENDATIONS CONFLICT THE MORE STRINGENT SHALL APPLY:
 1. GLASS ASSOCIATION OF NORTH AMERICA (GANA): "GLAZING MANUAL" AND THE MIRROR DIVISIONS "MIRRORS" MANUAL, HANDLE WITH EXTREME CARE. TIPS FOR THE PROFESSIONAL ON THE CARE AND HANDLING OF MIRRORS
 2. NATIONAL GLASS ASSOCIATION (NGA): "CUSTOM MIRRORS, FABRICATION AND INSTALLATION"
 3. DELIVERY, STORAGE, AND HANDLING
 4. PROTECT MIRRORS ACCORDING TO MIRROR MANUFACTURER'S WRITTEN INSTRUCTIONS AND AS NEEDED TO PREVENT DAMAGE TO MIRRORS FROM CONDENSATION, TEMPERATURE CHANGES, DIRECT EXPOSURE TO SUN, OR OTHER CAUSES
 5. COMPLY WITH MIRROR MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SHIPPING, STORING, AND HANDLING MIRRORS AS NEEDED TO PREVENT DETEIORATION OF SILVERING, DAMAGE TO EDGES, AND ABRASION OF GLASS SURFACES AND APPLIED COATINGS. STORE INDOORS, PROTECTED FROM MOISTURE INCLUDING CONDENSATION
4. PROJECT CONDITIONS:
 - a. ENVIRONMENTAL CONDITIONS: DO NOT INSTALL MIRRORRED GLASS UNTIL AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE MAINTAINED AT LEVELS INDICATED FOR FINAL OCCUPANCY

PART 2 - PRODUCTS

1. SILVERED FLAT GLASS MIRROR MATERIALS
2. CLEAR GLASS MIRRORS: 6.0 MM THICK AND COMPLYING WITH ASTM C 1503, MIRROR SELECT QUALITY FOR USE IN INTERIOR AND EXTERIOR AREAS REQUIRING MINIMAL DISTORTION AND BLEMISHES; REFLECTIVITY IS SIMILAR IN APPEARANCE TO THE MAJOR SURFACE OF THE GLASS
3. FABRICATION:
 - a. CUTOUTS: FABRICATE CUTOUTS FOR NOTCHES AND HOLES IN MIRRORS WITHOUT MARKING VISIBLE SURFACES, LOCATE AND SIZE CUTOUTS SO THEY FIT CLOSELY AROUND PENETRATIONS IN MIRRORS
 - b. MIRROR EDGE TREATMENT:
 1. CUTTING AND POLISHING:
 - a. TYPICAL MIRRORS: FLAT EDGES WHERE THE CLEAN CUT "SQUARE" EDGE OF THE GLASS IS TO BE EXPOSED AFTER GRINDING. AFTER GRINDING, THE EDGES SHALL BE POLISHED TO A HIGH GLOSS SURFACE WHERE THE SURFACE REFLECTIVITY IS SIMILAR IN APPEARANCE TO THE MAJOR SURFACE OF THE GLASS
 - b. BEVELED EDGED MIRRORS: PROVIDE BEVELED EDGED MIRRORS WHERE THE SURFACE EDGE OF THE GLASS IS BEVELED AND INDICATED ON THE OWNER'S FURNISHED DRAWINGS. THE ANGLE FORMED BY THE INTERSECTION OF THE PLANE OF THE BEVEL WITH THE MAJOR SURFACE FACE OF THE GLASS SHALL BE BETWEEN 3 TO 10 DEGREES. THE BEVEL SHALL BE POLISHED TO A HIGH GLOSS SURFACE WHERE THE SURFACE REFLECTIVITY IS SIMILAR IN APPEARANCE TO THE MAJOR SURFACE OF THE GLASS
 2. EDGE SEALING: IMMEDIATELY AFTER CUTTING TO FINAL SIZES, AND APPLYING EDGE TREATMENT, FACTORY SEAL EDGES OF MIRRORS WITH EDGE SEALANT TO PREVENT CHEMICAL OR ATMOSPHERIC PENETRATION OF GLASS COATING

- 2.3 MISCELLANEOUS MATERIALS
- 2.4 MIRROR SAFETY BACKING: RCL 24" CATEGORY II SHATTERPROOF SAFETY TAPE #2MT24, C.R. LAURENCE CO., INC., 2503 S. VERNON AVE., LOS ANGELES, CA 90058, (800-421-6144). APPLY SAFETY BACKING ONLY WHEN REQUIRED
- 2.5 SETTING BLOCKS: NON-BURRER OR NON-NEOPRENE BASED ELASTOMERIC MATERIAL MANUFACTURED FOR SETTING SILVERED FLAT GLASS MIRRORS, COMPATIBLE WITH ADHESIVE USED FOR PLACEMENT, WITH A TYPE A SHORE DUROMETER HARDNESS OF 85, PLUS OR MINUS 5, 1/8" WIDE X 1/4" HIGH X 4" LONG
- 2.6 EDGE