



FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS I AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION NO REINFORCED OUTER PROTECTION COVER,VAPOR BARRIER, FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25. SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR 2" W.G. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. PROVIDE METAL ADJUSTABLE CLAMPING DEVICES, SCREW OPERATED. USE TWIST LOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. DO NOT EXCEED 2 FEET IN LENGTH FOR ANY FLEX DUCT.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

AUTOMATIC TEMPERATURE CONTROL: LOW VOLTAGE TEMPERATURE CONTROL WITH A 24 VOLT ENERGY SAVING, SEVEN DAY SETBACK TYPE THERMOSTAT. PROVIDE SOLID STATE ELECTRONICS, TWO STAGE HEAT/COOL WITH AN AUTO CHANGEOVER FEATURE. WIRING SHALL COMPLY WITH SECTION 16400 REQUIREMENTS.

ROOF PENETRATIONS SHALL COMPLY WITH SMACNA AND NRCA STANDARDS.

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. FOLLOW NEBB AND ASHRAE STANDARDS. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS, MAINTENANCE OF TEMPERATURE, AND OPERATION. BALANCE MECHANICAL SYSTEM, AND SUBMIT COMPLETED TEST REPORT TO CONSTRUCTION MANAGER, PRIOR TO REQUEST FOR FINAL PAYMENT.

ELECTRICAL SYSTEM SECTION 16400

THE WORK IS THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SHOWN AND SPECIFIED ON THE DRAWINGS.

ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS, AND MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. REFER TO ARCHITECTURAL EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT AND CASEWORK, AND ELECTRICAL CONNECTIONS REQUIRED THEREIN.

SPECIFICATIONS, THE SPECIFICATIONS, NOTES, AND SCHEDULES ON THE ELECTRICAL DRAWINGS ARE THE SPECIFICATIONS FOR THE PROJECT.

RECEPTACLES: ALL SHALL BE MOUNTED HORIZONTALLY. MOUNT CENTERLINE OF 9 1/2" A.F.F. RECEPTACLES, SWITCHES AND CONTROLS: ALL COVER PLATES SHALL HAVE CONCEALED FASTENERS.

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PHASE

Project Status

FILE NAME:
M:\2405 Casa Pn Fernanda_COMODEUARCH\Casa on 63rd and 67th.dwg

PROJECT NO:
MA 2405

DRAWN BY:
DY

CHECKED BY:
RJM

ISSUE DATE:
11/14/24

REVISIONS

SHEET TITLE

SPECIFICATIONS

SHEET: OF:

A-006

FASTENERS: PROVIDE NECESSARY SCREWS, BOLTS AND OTHER FASTENERS OF SUITABLE SIZE AND TYPE TO ANCHOR HARDWARE IN POSITION FOR LONG LIFE UNDER HARD USE. PROVIDE CONCEALED FASTENERS FOR HARDWARE UNITS WHICH ARE EXPOSED WHEN DOOR IS CLOSED.

THRESHOLD SEAL: PROVIDE BUTYL RUBBER SEALANT MEETING FS TT-S-00 1687 FOR INSTALLATION OF THRESHOLDS, AS MANUFACTURED BY PECORA, SONOBORN, OR TREMCO.

INSTALL HARDWARE ITEMS AT HEIGHTS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE, EXCEPT AS SPECIFICALLY REQUIRED TO COMPLY WITH LOCAL CODES. INSTALL HARDWARE IN COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SET UNITS LEVEL, PLUMB AND TRUE.

ADJUST AND CHECK OPERATION OF EVERY UNIT. REPLACE UNITS WHICH CANNOT BE ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

HARDWARE SCHEDULE: AS INDICATED ON THE DRAWINGS.

MOUNTING HEIGHTS FOR HARDWARE FROM FINISHED FLOOR TO CENTER LINE OF HARDWARE ITEM:
LOCKSETS: 38 INCH
PUSH/PULLS: 42 INCH
DEAD LOCKS: 48 INCH
EXIT DEVICES: 38 INCH

ACCEPTABLE MANUFACTURERS

A. TO THE GREATEST EXTENT POSSIBLE, OBTAIN EACH KIND OF HARDWARE FROM ONLY ONE MANUFACTURER.

B. IF MATERIAL MANUFACTURED BY OTHER THAN THAT SPECIFIED OR LISTED HEREWITH AS AN EQUAL, IS TO BE BID UPON, PERMISSION MUST BE REQUESTED FROM THE ARCHITECT SEVEN (7) DAYS PRIOR TO BIDDING. IF SUBSTITUTION IS ALLOWED, IT WILL BE SO NOTED BY ADDENDUM.

FINISH HARDWARE SECTION 08710

WORK INCLUDED: THE WORK IN THIS SECTION SHALL INCLUDE FURNISHING OF ALL ITEMS OF FINISH HARDWARE AS HEREINAFTER SPECIFIED OR OBVIOUSLY NECESSARY TO COMPLETE THE BUILDING, EXCEPT THOSE ITEMS THAT ARE SPECIFICALLY EXCLUDED FROM THIS SECTION OF THE SPECIFICATION.

RELATED WORK SPECIFIED ELSEWHERE: HOLLOW METAL DOORS AND FRAMES, ALUMINUM DOORS AND FRAMES, WOOD DOORS AND FRAMES

FURNISH LABOR AND MATERIAL TO COMPLETE HARDWARE WORK INDICATED, AS SPECIFIED HEREIN, OR AS MAY BE REQUIRED BY ACTUAL CONDITIONS AT BUILDING, INCLUDE ALL NECESSARY SCREWS, BOLTS, EXPANSION SHIELDS, OTHER DEVICES, IF NECESSARY, AS REQUIRED FOR PROPER HARDWARE APPLICATION. THE HARDWARE SUPPLIER SHALL ASSUME ALL RESPONSIBILITY FOR CORRECT QUANTITIES. ALL HARDWARE SHALL MEET THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION OVER THIS PROJECT, NOTWITHSTANDING ANY REAL OR APPARENT CONFLICT THEREWITH IN THESE SPECIFICATIONS.

FASTENERS-

HARDWARE AS FURNISHED SHALL CONFORM TO PUBLISHED TEMPLATES GENERALLY PREPARED FOR MACHINE SCREW INSTALLATION. FURNISH EACH ITEM COMPLETE WITH ALL SCREWS REQUIRED FOR INSTALLATION. TYPICALLY, ALL EXPOSED SCREWS INSTALLATION. INSOFAR AS PRACTICAL, FURNISHED CONCEALED TYPE FASTENERS FOR HARDWARE UNITS THAT HAVE EXPOSED SCREWS SHALL BE FURNISHED WITH PHILLIPS FLAT HEAD SCREWS, FINISHED TO MATCH ADJACENT HARDWARE. DOOR CLOSERS AND EXIT DEVICES TO BE INSTALLED WITH CLOSED HEAD THROUGH BOLTS (HEX BOLTS).

QUALITY ASSURANCE

A. THE SUPPLIER TO BE A DIRECTLY FRANCHISED DISTRIBUTOR OF THE PRODUCTS TO BE FURNISHED AND HAVE IN THEIR EMPLOY AN AHC (ARCHITECTURAL HARDWARE CONSULTANT). THIS PERSON IS TO BE AVAILABLE FOR CONSULTATION TO THE ARCHITECT, OWNER AND THE GENERAL CONTRACTOR AT REASONABLE TIMES DURING THE COURSE OF WORK.

B. THE FINISH HARDWARE SUPPLIER SHALL PREPARE AND SUBMIT TO THE ARCHITECT SIX (6) COPIES OF A COMPLIANCE IDENTIFYING EACH DOOR AND EACH SET NUMBER. FOLLOWING THE NUMBERING SYSTEM AND NOT CREATING ANY SEPARATE SYSTEM HIMSELF. HE SHALL SUBMIT THE SCHEDULE FOR REVIEW, MAKE CORRECTIONS AS DIRECTED AND RESUBMIT THE CORRECTED SCHEDULE FOR FINAL APPROVAL. APPROVAL OF SCHEDULE WILL NOT RELIEVE CONTRACTOR OF THE RESPONSIBILITY FOR FURNISHING ALL NECESSARY HARDWARE, INCLUDING THE RESPONSIBILITY FOR FURNISHING CORRECT QUANTITIES.

C. NO MANUFACTURING ORDERS SHALL BE PLACED UNTIL DETAILED SCHEDULE HAS BEEN SUBMITTED TO THE ARCHITECT AND WRITTEN APPROVAL RECEIVED.

D. AFTER HARDWARE SCHEDULE HAS BEEN APPROVED, FURNISH TEMPLATES REQUIRED BY MANUFACTURER CONTRACTOR MAKING SURE PROVISIONS IN THEIR WORK FOR ACCURATE FITTING. FINISHING HARDWARE SETTING. FURNISH TEMPLATES IN AMPLE TIME TO FACILITATE PROGRESS OF WORK.

E. HARDWARE SUPPLIER SHALL HAVE AN OFFICE AND WAREHOUSE FACILITIES TO ACCOMMODATE THE MATERIALS USED ON THIS PROJECT. THE SUPPLIER MUST BE AN AUTHORIZED DISTRIBUTOR OF THE PRODUCTS SPECIFIED.

F. THE HARDWARE MANUFACTURES ARE TO SUPPLY BOTH A PRE-INSTALLATION CLASS AS WELL AS A POST-INSTALLATION WALK-THRU. THIS IS TO INSURE PROPER INSTALLATION AND PROVIDE FOR ANY ADJUSTMENTS OR REPLACEMENTS OF HARDWARE AS REQUIRED.

DELIVERY, STORAGE, AND HANDLING

WRAP. PROTECT FINISHING HARDWARE ITEMS FOR SHIPMENT. DELIVER TO MANUFACTURING CONTRACTORS HARDWARE ITEMS REQUIRED BY THEM FOR THEIR APPLICATION. DELIVER BALANCE OF HARDWARE TO JOB. STORE IN DESIGNATED LOCATION. EACH ITEM SHALL BE CLEARLY MARKED WITH ITS INTENDED LOCATION.

WARRANTY

THE MATERIAL FURNISHED SHALL BE WARRANTED FOR ONE YEAR AFTER INSTALLATION OR LONGER AS THE INDIVIDUAL MANUFACTURER'S WARRANTY PERMITS.

2.05 LOCKS, LATCHES AND BOLTS

A. LOCKS SHALL MEET THESE CERTIFICATIONS:
1. CYLINDRICAL LOCKS -PROVIDE SEVEN YEAR WARRANTY.

2.06 DOOR STOPS

DOORSTOPS SHALL BE FURNISHED FOR ALL DOORS TO PREVENT DAMAGE TO DOORS OR HARDWARE FROM STRIKING ADJACENT WALLS OR FIXTURES.

2.07 THRESHOLDS AND WEATHERSTRIP

PROVIDE THRESHOLDS FOR ALL EXTERIOR SWING DOORS AND WEATHERSTRIP ALL DOORS TO PROHIBIT AIR INFILTRATION AND MOISTURE FROM ENTERING THROUGH EDGES OF DOORS AND FRAMES.

PART III - EXECUTION

3.01 INSTALLATION:

ALL HARDWARE SHALL BE APPLIED AND INSTALLED IN ACCORDANCE WITH THE FINISH HARDWARE SCHEDULE. CARE SHALL BE EXERCISED NOT TO MAR OR DAMAGE ADJACENT WORK.

CONTRACTOR TO PROVIDE A SECURE LOCK-UP FOR HARDWARE DELIVERED TO THE PROJECT BUT NOT YET INSTALLED. CONTROL THE HANDLING AND INSTALLATION OF HARDWARE ITEMS THAT ARE NOT IMMEDIATELY REPLACEABLE, SO THAT THE COMPLETION OF THE WORK WILL NOT BE DELAYED BY HARDWARE LOSSES BOTH BEFORE AND AFTER INSTALLATION.

NO HARDWARE IS TO BE INSTALLED UNTIL THE HARDWARE MANUFACTURES HAVE PROVIDED A PRE-INSTALLATION CLASS. THIS IS TO INSURE PROPER INSTALLATION OF THE SPECIFIED PRODUCTS.

3.02 ADJUSTING AND CLEANING:

CONTRACTOR SHALL ADJUST ALL HARDWARE IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS. PRIOR TO TURNING PROJECT TO OWNER, CONTRACTOR SHALL CLEAN AND MAKE ANY FINAL ADJUSTMENTS TO THE FINISH HARDWARE.

3.03 PROTECTION:

CONTRACTOR SHALL PROTECT THE HARDWARE, AS IT IS STORED ON CONSTRUCTION SITE IN A COVERED AND DRY PLACE. CONTRACTOR SHALL PROTECT EXPOSED HARDWARE INSTALLED ON DOORS DURING THE CONSTRUCTION PHASE.

3.04 HARDWARE SCHEDULE:

THE FOLLOWING SCHEDULE IS FURNISHED FOR WHATEVER ASSISTANCE IT MAY AFFORD THE CONTRACTOR, DO NOT CONSIDER IT AS ENTIRELY INCLUSIVE. SHOULD ANY PARTICULAR DOOR OR ITEM BE OMITTED IN ANY SCHEDULED HARDWARE GROUP, PROVIDE DOOR OR ITEM WITH HARDWARE SAME AS REQUIRED FOR SIMILAR PURPOSES. QUANTITIES LISTED ARE FOR EACH PAIR OF DOORS OR FOR EACH SINGLE DOOR.

GLASS AND GLAZING SECTION 08800

WORK INCLUDED: PROVIDE AND INSTALL GLASS AND GLAZING AS SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION.

GLAZING STANDARDS: COMPLY WITH RECOMMENDATIONS OF FLAT GLASS MARKETING ASSOCIATION (FGMA) "GLAZING MANUAL" AND "SEALANT MANUAL" AND SIGMA EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE INDICATED. REFER TO THOSE PUBLICATIONS FOR DEFINITIONS OF GLASS AND GLAZING TERMS NOT OTHERWISE DEFINED IN THIS SECTION OR OTHER REFERENCED STANDARDS

SAFETY GLAZING STANDARDS: WHERE SAFETY GLASS IS INDICATED OR REQUIRED BY AUTHORITIES HAVING JURISDICTION PROVIDE TYPE OF PRODUCTS INDICATED WHICH COMPLY WITH ANSI Z97.1 AND TESTING REQUIREMENTS OF 1 6 CFR PART 1201 FOR CATEGORY II MATERIALS.

FLOAT GLASS: TYPE FG-A 1/4 INCH THICK MINIMUM, CLEAR UNLESS OTHERWISE INDICATED.

TEMPERED GLASS: PROVIDE CLEAR PRIME GLASS 1/4 INCH THICK MINIMUM, WHICH HAS BEEN TREATED TO STRENGTHEN GLASS IN BENDING TO NOT LESS THEN 4.5 TIMES ANNEALED STRENGTH, CONFORMING TO ANSI Z97.1 AND CPSPG 16 CFR 1201.

CLEAN GLAZING CHANNEL AND OTHER FRAMING MEMBERS TO RECEIVE GLASS. IMMEDIATELY BEFORE GLAZING, REMOVE COATINGS WHICH ARE NOT FIRMLY BONDED TO SUBSTRATE. REMOVE LACQUER FROM METAL SURFACES WHERE ELASTOMERIC SEALANTS ARE USED.

COMPLY WITH FGMA "GLAZING MANUAL" AND MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. USE MANUFACTURER'S RECOMMENDED SPACERS, BLOCKS, PRIMERS, SEALERS, GASKETS ND ACCESSORIES.

INSTALL GLAZING WITH UNIFORMITY OF PATTERN, DRAW, BOW AND ROLLER MARKS. INSTALL SEALANTS TO PROVIDE COMPLETE WETTING AND BOND AND TO CREATE A SUBSTANTIAL WASH AWAY FROM GLASS. INSTALL PRESSURIZED TAPES AND GASKETS TO PROTRUDE SLIGHTLY OUT OF CHANNEL, SO AS TO ELIMINATE DIRT AND MOISTURE POCKETS.

REMOVE AND REPLACE DAMAGED GLASS AND GLAZING. WASH AND POLISH GLASS ON BOTH FACES NOT MORE THAN 4 DAYS SCHEDULED FOR INSPECTIONS INTENDED TO ESTABLISH DATE OF SUBSTANTIAL COMPLETION. COMPLY WITH GLASS MANUFACTURER'S RECOMMENDATIONS FOR CLEANING.

ALL EXTERIOR WINDOWS AND GLAZING MUST HAVE A NOTICE OF ACCEPTANCE AS PER THE GOVERNING JURISDICTION. REFER TO BUILDING ELEVATIONS FOR WIND PRESSURE CALCULATIONS.

GYPSUM DRYWALL SECTION 09250

PROVIDE AND INSTALL SCREW-TYPE METAL SUPPORT SYSTEM, GYPSUM WALLBOARD, AND DRYWALL FINISHING OF PARTITIONS, FURRING, CEILING AND SOFFIT DROPS WHERE SHOWN OR NOTED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

METAL FURRING: ASTM A625, G90, 26 GAGE MINIMUM, 1 1/2" DEPTH UNLESS NOTED OTHERWISE. SCREW-TYPE ZEE-SHAPED FURRING MEMBERS DESIGNED FOR MECHANICAL ATTACHMENT OF INSULATION BOARDS TO MONOLITHIC CONCRETE AND MASONRY WALLS.

GYPSUM WALLBOARD: ASTM C36, TYPE X TAPERED EDGE, 5/8" THICKNESS UNLESS OTHERWISE INDICATED, IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE JOINTS. GYPSUM BACKING BOARD MAY BE UTILIZED FOR MULTI-LAYER APPLICATIONS. (REFER TO WALL TYPES FOR LOCATIONS)

MOISTURE-RESISTANT GYPSUM WALLBOARD: 5/8" THICK SQUARE CUT ENDS, TAPED EDGES.

TRIM ACCESSORIES: ASTM C475, PAPER REINFORCING JOINT TAPE, WITH READY MIXED VINYL-TYPE JOINT COMPOUND, MULTI-PURPOSE GRADE.

COMPLY WITH "GYPSUM CONSTRUCTION HANDBOOK" BY UNITED STATES GYPSUM CO. GYPSUM ASSOCIATION GA-216 "RECOMMENDED SPECIFICATIONS FOR APPLICATION AND FINISHING OF GYPSUM BOARD" AND ASTM C754 "INSTALLATION OF FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM WALLBOARD, BACKING BOARD, OR WATER RESISTANT BACKING BOARD" FOR ALL INSTALLATION WORK.

INSTALL GYPSUM BOARD VERTICALLY TO AVOID END-BUT JOINTS WHERE POSSIBLE.. IF NECESSARY, LOCATE END BUTT JOINTS AS FAR FROM CENTER OF WALLS AND CEILINGS AS POSSIBLE, AND STAGGER NOT LESS THAN 1'-0". DO NOT INSTALL IMPERFECT, DAMAGED OR DAMP BOARDS. DO NOT FORCE IN PLACE. LOCATE JOINTS OVER SUPPORTS, WITH LINE-EDGES (TAPERED OR CUT) BUTTING. FORM CONTROL JOINTS WITH SPACE BETWEEN EDGES OF BOARDS, PREPARED TO RECEIVE TRIM ACCESSORIES.

BASE OF MOISTURE RESISTANT GYPSUM BOARD: PROVIDE 1/2" GAP BETWEEN BOTTOM OF WATER RESISTANT GYPSUM BOARD AND FLOOR SURFACE FOR INSTALLATION OF CONTINUOUS SILICONE SEALANT.

INSTALL CORNER BEADS AT ALL EXTERNAL CORNERS OF DRYWALL WORK. INSTALL EDGE TRIM AT ALL EDGES WHERE GYPSUM BOARD IS EXPOSED OR SEMI-EXPOSED. INSTALL CONTROL JOINTS ABOVE ALL DOOR JAMBS, AND AS INDICATED ON THE DRAWINGS.

APPLY JOINT TREATMENT AT ALL JOINTS (BOTH DIRECTIONS), METAL TRIM FLANGES, PENETRATIONS, FASTENERS HEADS, SURFACE DEFECTS AND ELSEWHERE AS REQUIRED TO PREPARE WORK FOR FINAL FINISH. APPLY JOINT COMPOUND IN THREE (3) COATS AND SAND SMOOTH BETWEEN LAST TWO (2) COATS AND AFTER LAST COAT.

INSTALL ACOUSTICAL INSULATION IN PARTITIONS INDICATED ON DRAWINGS TO ACHIEVE STC RATINGS NOTED. INSTALL ACOUSTICAL INSULATION IN PARTITIONS TIGHT WITHIN SPACES, AROUND CUT OPENINGS, BEHIND AROUND AND TIGHT TO PENETRATION ITEMS INSTALL ACOUSTICAL SEALANT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

TILE FLOORING SECTION 09631

MATERIALS: SEE FINISH LEGEND FOR FLOOR BASE AND WALL MATERIALS.

COMPLY WITH MANUFACTURE'S INSTRUCTIONS FOR MIXING AND INSTALLATION OF MATERIALS.

EXTEND TILE WORK INTO RECESSES AND UNDER OR BEHIND EQUIPMENT AND FIXTURES, TO FORM A COMPLETE COVERING WITHOUT INTERRUPTIONS, EXCEPT AS OTHERWISE SHOWN. TERMINATE WORK NEATLY AT OBSTRUCTIONS, EDGES AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.

ACCURATELY FORM INTERSECTIONS AND RETURNS. PERFORM CUTTING AND DRILLING OF TILE WITHOUT MARRING VISIBLE SURFACES. CAREFULLY GRIND CUT EDGES OF TILE ABUTTING TRIM, FINISH OR BUILT-IN ITEMS FOR STRAIGHT ALIGNED JOINTS. FIT TILE CLOSELY TO ELECTRICAL OUTLETS, PIPING, FIXTURES AND OTHER PENETRATIONS SO THAT PLATES, COLORS, OR COVERS OVERLAP TILE.

JOINTING PATTERN: UNLESS OTHERWISE SHOWN, LAY TILE IN GRID PATTERN. ALIGN JOINTS WHEN ADJOINING TILES ON FLOOR, BASE, WALLS AND TRIM ARE SAME SIZE. LAYOUT TILE WORK AND CENTER TILE FIELDS IN BOTH DIRECTIONS IN EACH SPACE OR ON EACH WALL AREA. ADJUST TO MINIMIZE TILE CUTTING. PROVIDE UNIFORM JOINT WIDTHS, UNLESS OTHERWISE SHOWN.

CLEANING: UPON COMPLETION OF PLACEMENT AND GROUTING, CLEAN ALL TILE SURFACES SO THEY ARE FREE OF FOREIGN MATTER. UNGLAZED TILE MAY BE CLEANED WITH ACID SOLUTIONS ONLY WHEN PERMITTED BY TILE AND GROUT MANUFACTURERS, PRINTED INSTRUCTIONS, BUT NOT SOONER THAN 14 DAYS AFTER INSTALLATION. PROTECT METAL SURFACES. CAST

IRON AND VITREOUS PLUMBING FIXTURES FROM EFFECTS OF ACID CLEANING. FLUSH SURFACE WITH CLEAN WATER BEFORE AND AFTER CLEANING.

FINISHED TILE WORK: LEAVE FINISHED INSTALLATION CLEAN AND FREE OF CRACKED, CHIPPED, BROKEN UNBONDED, OR OTHERWISE DEFECTIVE TILE WORK.

PROTECTION: WHEN RECOMMENDED BY TILE MANUFACTURER, APPLY A PROTECTIVE COAT OF NEUTRAL PROTECTIVE CLEANER TO COMPLETED TILE WALLS AND FLOORS. PROTECT INSTALLED TILE WORK FROM OTHER HEAVY COVERING DURING CONSTRUCTION PERIOD TO PREVENT DAMAGE AND WEAR.

PROHIBIT FOOT AND WHEEL TRAFFIC FROM USING TILED FLOORS FOR AT LEAST THREE (3) DAYS AFTER GROUTING IS COMPLETED.

BEFORE FINAL INSPECTION REMOVE PROTECTIVE COVERINGS AND RINSE NEUTRAL CLEANER FROM TILE SURFACES. CONTRACTOR TO SUBMIT TILE SAMPLES FOR ARCHITECT'S APPROVAL.

PAINTING SECTION 09900

PART 1 - GENERAL

1.01 SUBMITTALS

A. PRODUCT DATA. SUBMIT A COMPLETE LIST OF PAINT MATERIALS PROPOSED FOR USE, TOGETHER WITH THE MANUFACTURER'S TECHNICAL INFORMATION, INCLUDING PAINT LABEL ANALYSIS, VOC CONTENT, AND MATERIAL SAFETY DATA SHEETS (MSDS).

PART 2 - PRODUCTS

2.01 MATERIALS

A. WATERBORNE LATEX (ACRYLIC) EMULSION PAINT.

- ZERO-VOC PAINT: FLAT AND EGGSHELL, VOC CONTENT LESS THAN 5 GRAMS/LITER
- LOW-VOC PAINT: SEMI-GLOSS AND GLOSS, VOC CONTENT LESS THAN 100 GRAMS/LITER

B. OIL-BASED: LOW-VOC PAINT (MAXIMUM VOC CONTENT LESS THAN 5 GRAMS/LITER); MAXIMUM 1 0% AROMATIC HYDROCARBONS CONTENT.

C. EPOXY: WATERBORNE: MAXIMUM VOC CONTENT: 200 GRAMS/LITER

D. MINERAL SILICATE PAINT: FOR MINERAL SURFACES INCLUDING CONCRETE AND STONE; CONSISTS OF INORGANIC FILLERS AND PIGMENTS SUSPENDED IN POTASSIUM SILICATE.

E. TRANSPARENT FINISHES:

- POLYURETHANE, WATER-BASED: MAXIMUM VOC CONTENT:170 GRAMS/LITER
- PENETRATING OIL- BASED, WATER-REDUCIBLE EXTERIOR FINISH

F. PAINT STRIPPERS: LOW-EMITTING: SHALL NOT CONTAIN METHYLENE CHLORIDE. AVOID PRODUCTS CONTAINING METHANOL AND TRICHLOROETHANE.

PART 3 - EXECUTION

3.01 INDOOR AIR QUALITY

A. WEAR PROTECTIVE CLOTHING AND RESPIRATORS WHEN APPLYING OIL-BASED PAINTS OR USING SPRAY EQUIPMENT WITH ANY PAINTS.

B. MAXIMIZE VENTILATION DURING APPLICATION AND DRYING.

C. ISOLATE AREA OF APPLICATION FROM REST OF BUILDING.

D. VACATE SPACE FOR AS LONG AS POSSIBLE AFTER APPLICATION. WAIT A MINIMUM OF 48 HRS BEFORE OCCUPYING FRESHLY PAINTED ROOMS.

3.02 WASTE MANAGEMENT

A. SEPARATE WASTE IN ACCORDANCE WITH THE WASTE MANAGEMENT PLAN. SET ASIDE EXTRA PAINT FOR FUTURE COLOR MATCHES, OR REUSE BY OWNER, HABITAT FOR HUMANITY, ETC. WHERE LOCAL OPTIONS EXIST FOR LEFTOVER PAINT RECYCLING, COLLECT ALL WASTE PAINT BY TYPE AND PROVIDE FOR DELIVERY TO RECYCLING OR COLLECTION FACILITY.

B. CLOSE AND TIGHTLY SEAL ALL, PARTLY USED PAINT AND FINISH CONTAINERS AND STORE PROTECTED IN WELL-VENTILATED, FIRE SAFE AREA AT MODERATE TEMPERATURE.

C. PLACE EMPTY CONTAINERS OF SOLVENT-BASED PAINTS IN AREAS DESIGNATED FOR HAZARDOUS MATERIALS.

D. DO NOT DISPOSE OF PAINTS OR SOLVENTS BY POURING ON THE GROUND. PLACE IN DESIGNATED CONTAINERS FOR PROPER DISPOSAL.

WORK INCLUDES SURFACE PREPARATION AND PAINTING OF INTERIOR AND EXTERIOR SURFACES FOR THE TOTAL PROJECT, WHERE ITEMS OR SURFACES ARE NOT SPECIFICALLY MENTIONED, POINT THE SAME AS SIMILAR ADJACENT MATERIALS OR AREAS.

PAINTING NOT REQUIRED: UNLESS OTHERWISE INDICATED, PAINTING IS NOT REQUIRED ON CASEWORK, PLASTIC LAMINATE, MECHANICAL EQUIPMENT, PLUMBING FIXTURES, ELECTRICAL EQUIPMENT (EXCLUDING EXPOSED DISTRIBUTION CABINET(S) ELECTRICAL DEVICES. PAINTING IS NOT REQUIRED ON SURFACES SUCH AS WALLS OR CEILINGS IN CONCEALED OR INACCESSIBLE AREAS. METAL SURFACES OF ANODIZED ALUMINUM, STAINLESS STEEL, CHROMIUM PLATE AND SIMILAR FINISHED MATERIALS DO NOT REQUIRE FINISH PAINTING. DO NOT PAINT OVER CODE-REQUIRED LABELS OR EQUIPMENT IDENTIFICATION LABELS.

JOB CONDITIONS: APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND SURROUNDING AIR TEMPERATURES ARE WITHIN RECOMMENDED RANGE PERMITTED BY THE PAINT MANUFACTURER'S PRINTED INSTRUCTIONS.

MATERIALS: PAINT AND STAIN MATERIALS AS LISTED IN THE FINISH LEGEND UNLESS OTHERWISE INDICATED IN CONTRACT DOCUMENTS

SURFACE PREPARATION: CLEAN SURFACES OF DIRT, RUST, SCALE, GREASE, MOISTURE, OR OTHER CONDITIONS OTHERWISE DETRIMENTAL TO FORMATION OF A DURABLE PAINT FILM. PERFORM PREPARATION AND CLEANING PROCEDURES IN ACCORDANCE WITH PAINT MANUFACTURER'S PRINTED INSTRUCTIONS FOR EACH PARTICULAR SUBSTRATE CONDITION.

REMOVE HARDWARE, ACCESSORIES, PLATES, LIGHTING FIXTURES, AND SIMILAR ITEMS IN PLACE AND NOT TO BE FINISH-PAINTED, OR PROVIDE PROTECTION PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. REMOVE, IF NECESSARY, FOR COMPLETE PAINTING OF ITEMS AND ADJACENT SURFACES. FOLLOWING COMPLETION OF PAINTING OF EACH SPACE OR AREA, REINSTALL REMOVED ITEMS.

COMPLY WITH MANUFACTURER'S PRINTED DIRECTIONS IN APPLYING PAINT MATERIALS. USE APPLICATORS AND TECHNIQUES BEST SUITED FOR SUBSTRATE AND TYPE OF MATERIAL BEING APPLIED.

SCHEDULING: APPLY FIRST-COAT MATERIAL TO SURFACES THAT HAVE BEEN CLEANED, PRE-TREATED OR OTHER PREPARATION. PREPARED FOR PAINTING AS SOON AS PRACTICAL. AFTER PREPARATION AND BEFORE SUBSEQUENT SURFACE DETEIORATION, ALLOW SUFFICIENT TIME BETWEEN SUCCESSIVE COATINGS TO PERMIT PROPER DRYING. DO NOT RE-COAT UNTIL PAINT HAS DRIED TO MANUFACTURER'S SPECIFICATIONS

FORMULATE COLOR OF PRIME COAT TO MATCH COLOR OF FINISH COATS.

APPLY PAINT TO PROVIDE AN OPAQUE SMOOTH, SURFACE OF UNIFORM FINISH COLOR, APPEARANCE AND COVERAGE. CLOUDINESS, SPOTTING, HOLIDAYS, LAP MARKS, BRUSH MARKS, RUNS, SAGS, RAPIDNESS OR OTHER SURFACE IMPERFECTIONS WILL NOT BE ACCEPTABLE AND WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.

APPLY ADDITIONAL PAINT COATS WHEN UNDERCOATS, STAINS OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT. UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE, GIVE SPECIAL ATTENTION TO INSURE THAT SURFACES, INCLUDING EDGES, CORNERS, CREVICES, AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES. REMOVE, REFINISH OR REPAINT WORK NOT IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.

CLEAN UP: UPON COMPLETION OF PAINTING WORK, CLEAN WINDOW GLASS AND OTHER DAMAGED PAINT -SPATTERED SURFACES. REMOVE SPATTER PAINT AND CLEAN DAMAGED FINISH SURFACES. TOUCH-UP AND RESTORE ALL DAMAGED OR DEFACED PAINTED SURFACES AFTER COMPLETION OF WORK OF OTHER TRADES.

SCHEDULE - SHOP PRIMED ITEMS FOR SITE FINISHING

METAL FABRICATION (SECTION 05500): EXPOSED SURFACES OF STAIRS

MANUFACTURED ROOF SPECIALTIES (SECTION 07710): EXPOSED SURFACES OF METAL COPINGS AND TRIM.

STEEL DOORS & FRAMES (SECTION 08111): INTERIOR AND EXTERIOR FACES OF STEEL DOORS AND FRAMES.

ROOF VENTILATORS, EXPOSED SURFACES OF ROOF VENTILATORS TO MATCH ROOFING.

FINISH LEGEND SCHEDULE - EXTERIOR SURFACES

STUCCO - ONE COAT PRIMER, 2 COATS LATEX, FLAT

WOOD - PAINTED: ONE COAT ALKYD PRIMER SEALER. TWO COATS ALKYD ENAMEL, SURFACE AS SCHEDULED.