

ARCHITECTURAL GENERAL SPECIFICATIONS:

8.1 FINISHES - GYPSUM BOARD ASSEMBLIES:

PART 1 - GENERAL

1.01 SUMMARY

- A. PROVIDE GYPSUM BOARD ASSEMBLIES WHERE INDICATED.
- 1. INTERIOR WALLS, PARTITIONS, AND CEILING
- 2. EXTERIOR WALL, CEILING AND SOFFIT SUBSTRATES FOR EXTERIOR FINISH MATERIALS.
- 3. FIRE RATED ASSEMBLIES.
- 4. REMODELING AT EXISTING GYPSUM BOARD CONSTRUCTION.

1.02 SUBMITTALS

- A. NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.

1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. STANDARDS. COMPLY WITH THE PROVISIONS OF THE FOLLOWING SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE NOTED OR SPECIFIED.
 - 1. ASTM C442- STANDARD SPECIFICATION FOR GYPSUM BACKING BOARD, GYPSUM COREBOARD, AND GYPSUM SHAFTLINER BOARD.
 - 2. ASTM C475/C475M-12, STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD.
 - 3. ASTM C840-11, STANDARD SPECIFICATION FOR APPLICATION AND FINISHING OF GYPSUM BOARD.
 - 4. ASTM C1002-07, STANDARD SPECIFICATIONS FOR STEEL SELF PIERCING TAPPING SCREWS FOR THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD STUDS OR STEEL STUDS.
 - 5. ASTM C1047-10A, STANDARD SPECIFICATION FOR ACCESSORIES FOR GYPSUM WALL BOARD AND GYPSUM VENEER BASE.
 - 6. ASTM C1177/C1177M-08, STANDARD SPECIFICATION FOR GLASS MATT GYPSUM SUBSTRATE USED FOR SHEATHING.
 - 7. ASTM C1285-13, STANDARD SPECIFICATION FOR APPLICATION OF EXTERIOR GYPSUM PANEL PRODUCTS FOR USE AS SHEATHING.
 - 8. ASTM C1396/C1396M-13, STANDARD SPECIFICATION FOR GYPSUM BOARD.
 - 9. ASTM D3273-12, STANDARD TEST METHOD FOR RESISTANCE TO GROWTH OF MOLD ON THE SURFACE OF INTERIOR COATINGS IN AN ENVIRONMENTAL CHAMBER.
 - 10. ASTM E90-09, STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS AND ELEMENTS.
 - 11. ASTM E119-12A, STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS.
- C. FIRE RESISTANT FOR FIRE RATED ASSEMBLIES. WHERE WORK IS INDICATED FOR FIRE-RESISTANCE RATINGS, PROVIDE MATERIALS AND INSTALLATIONS IDENTICAL WITH ASSEMBLIES WHOSE FIRE RESISTANCE RATING HAS BEEN DETERMINED PER ASTM E119-12A BY A TESTING AND INSPECTION ORGANIZATION ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- D. MOISTURE AND MOLD-RESISTANT ASSEMBLIES. PROVIDE MOISTURE AND MOLD-RESISTANT GYPSUM BOARD PRODUCTS WITH SURFACES COMPLYING WITH ASTM C1396/C1396M-13 AND ASTM C1177/C1177M-08 IN ALL LOCATIONS SUBJECT TO MOISTURE EXPOSURE.
- E. PERFORMANCE, STRUCTURAL AND SEISMIC PERFORMANCE MEETING REQUIREMENTS OF BUILDING CODE AND LOCAL AUTHORITIES.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. MANUFACTURERS OF GYPSUM BOARD: CERTANTEED GYPSUM, INC., GEORGIA/PACIFIC CORP. NATIONAL GYPSUM CO., TEMPLE-INLAND, UNITED STATES GYPSUM CO., OR APPROVED EQUAL B. GYPSUM BOARD.
- 1. GYPSUM WALLBOARD: ASTM C1396/C1396M-13, TYPE X FIRE-RATED TYPE, TAPERED EDGES.
- 2. MOISTURE RESISTANT GYPSUM BACKING BOARD: ASTM C1396/C1396M-13, TYPE X FIRE-RATED TYPE.
- 3. FIBERGLASS-MATT FACED GYPSUM SHEATHING: ASTM C1177/C1177M-08, TYPE X FIRE RATED, ASTM D3273-12, MOLD RESISTANT TYPE, FIBERGLASS MATT FACED GYPSUM CORE, SQUARE EDGES.
- 4. SHAFTWALL: ASTM C442, TYPE SLX, TYPE X BEVELED EDGES, WIDTH REQUIRED FOR BLIND INSTALLATION IN FRAMING SPACING AND TYPE INDICATED.
- C. JOINT TREATMENT MATERIALS: ASTM C475/C475M-12 AND ASTM C840-11, 2-COAT JOINT COMPOUND, AND OTHER MATERIALS, PAPER, OR FIBERGLASS TAPE.
- D. TRIM ACCESSORIES: PROVIDE MANUFACTURER'S STANDARD TRIM ACCESSORIES OF TYPES INDICATED FOR DRYWALL WORK. FORMED OF GALVANIZED STEEL, UNLESS OTHERWISE INDICATED, WITH EITHER KNURLED AND PERFORATED OR EXPANDED FLANGES FOR ATTACHMENT, AND BEADED FOR CONCEALMENT OF FLANGES IN JOINT COMPOUND. PROVIDE ALL CORNER BEADS, EDGE TRIM-BEADS, AND ONE-PIECE CONTROL JOINT BEADS. PROVIDE DECORATIVE PROFILES FACTORY PRIMED OF TYPES INDICATED.
- E. FASTENERS: ASTM C1002-07, SELF-DRILLING, SELF TAPPING SCREWS FOR POWER DRIVING WITH SPECIAL HEAD DESIGN FOR GYPSUM BOARD ATTACHMENT (TYPE S), PRODUCING SURFACE DEPRESSION FOR PROPER CONCEALMENT; 1-INCH LONG FOR SINGLE PLY, 1.58-INCH LONG FOR DOUBLE PLY, 2-INCH LONG FOR MULTIPLE PLIES. USE OTHER FASTENERS AS REQUIRED.
- F. TEXTURES: ALL EXPOSED TO VIEW SURFACES TO BE SMOOTH SANDED FINISH, UNLESS OTHERWISE INDICATED. WHERE SPRAY APPLICATION FOR SPLATTER, KNOCK-DOWN AND ORANGE PEEL TYPE TEXTURES SPECIFIED, SUBMIT SAMPLES FOR OWNER'S REVIEW AND APPROVAL.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. INSPECTION: COORDINATE WITH CARPENTER AND INSULATOR IN PLACING OF BACKING, BLOCKING, BRACING, AND INSULATION WHERE REQUIRED IN WALLS FOR ACOUSTICAL TREATMENT, MILLWORK, FIXTURES, FITTINGS, AND ACCESSORIES. EXAMINE SUBSTRATES FOR PROPER APPLICATION OF GYPSUM BOARD SYSTEMS. BEGINNING WORK MEANS ACCEPTANCE OF CONDITIONS.
- B. GENERAL. INSTALL GYPSUM BOARD ASSEMBLIES IN COMPLIANCE WITH ASTM C840-11. INSTALL GYPSUM BOARD ASSEMBLIES TRUE, PLUMB, LEVEL, AND IN PROPER RELATION TO ADJACENT SURFACES.
- C. TOLERANCES. NOT MORE THAN 1/16-INCH DIFFERENCE IN TRUE PLANE AT JOINTS BETWEEN ADJACENT BOARDS BEFORE FINISHING. AFTER FINISHING, JOINTS SHALL NOT BE VISIBLE. NOT MORE THAN 1/8-INCH IN 10 FEET DEVIATION FROM TRUE PLANE, PLUMB, LEVEL, AND PROPER RELATION TO ADJACENT SURFACES IN FINISHED WORK.
- D. PARTITIONS. INSTALL BOARDS VERTICALLY PARALLEL TO STUDS. DO NOT ALLOW BUTT-TO-BUTT JOINTS AND JOINTS THAT DO NOT FALL OVER FRAMING MEMBERS. ARRANGE GYPSUM BOARD JOINTS OPPOSITE SIDES OF PARTITIONS TO OCCUR ON DIFFERENT STUDS.
- E. CEILING AND SOFFITS. INSTALL BOARDS ACROSS FRAMING MEMBERS IN MANUALLY MINIMUM NUMBER OF END-BUTT JOINTS AND WHICH AVOIDS END JOINTS IN CENTRAL AREA OF CEILING AND SOFFIT. STAGGER END JOINTS AT LEAST 24-INCHES.
- F. FASTENING. FASTEN GYPSUM BOARD TO METAL STUDS WITH SPECIFIED SPACING: 8-INCHES ON CENTER FOR WALLS AND 12-INCHES ON CENTER FOR CEILING OF SINGLE LAYER APPLICATION. 24-INCHES ON CENTER FOR WALL AND 18-INCHES ON CENTER FOR BASE LAYER. 12-INCHES ON CENTER FOR WALL AND 12-INCHES ON CENTER FOR CEILING OF DOUBLE LAYER APPLICATIONS.
- G. EXPANSION/CONTROL JOINTS. INSTALL EXPANSION/CONTROL JOINTS IN CEILING AREAS EXCEEDING 2500 SQ. FT. IN AREA AND IN PARTITION AND WALL RUNS EXCEEDING 30- FEET UNLESS OTHERWISE INDICATED. DO NOT EXCEED A DISTANCE OF 50- FEET IN EITHER DIRECTION BETWEEN CONTROL JOINTS. AND INSTALL A CONTROL JOINT WHERE CEILING FRAMING IS TURNING CHANGES DIRECTION. DO NOT EXCEED A DISTANCE OF 30- FEET BETWEEN CONTROL JOINTS IN WALLS UNLESS OTHERWISE INDICATED.
- H. TRANSITIONS, TRIM, AND CORNERS:
 - 1. PROVIDE CASING BEADS WHERE EDGES OF TYPES OR COATINGS MEET DISSIMILAR MATERIALS.
 - 2. TREAT ALL INTERNAL ANGLES FORMED BY THE INTERSECTION OF EITHER WALLBOARD SURFACES WITH METAL TRIM AND/OR A TRIM JOINT AS INDICATED ON DRAWINGS.
 - 3. TREAT ALL VERTICAL AND HORIZONTAL INTERNAL CORNERS WITH METAL BEAD CORNER REINFORCEMENT APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 4. WHERE NEW PARTITIONS MEET EXISTING CONSTRUCTION, REMOVE EXISTING CORNER BEADS TO PROVIDE A SMOOTH TRANSITION.
- I. FIRE RATED SYSTEMS:
 - A. PROVIDE FIRE RATED SYSTEMS WHERE INDICATED OR WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH ASTM E119-12A.
 - B. PROVIDE FIRE RATED CONSTRUCTION MATERIALS AND INSTALLATIONS IDENTICAL WITH REQUIREMENTS OF LISTED AND RECOGNIZED INDEPENDENT TESTING AGENCY REFERENCED ASSEMBLY.
 - C. COORDINATE INSPECTION REQUIREMENTS WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING WORK. UPON REQUEST, PROVIDE DOCUMENTATIONS OF FIRE-RATED CONSTRUCTION MATERIALS, MEANS, AND METHODS.
 - D. FINISHING

3.02 FIRE RATED SYSTEMS

- A. PROVIDE FIRE RATED SYSTEMS WHERE INDICATED OR WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH ASTM E119-12A.
- B. PROVIDE FIRE RATED CONSTRUCTION MATERIALS AND INSTALLATIONS IDENTICAL WITH REQUIREMENTS OF LISTED AND RECOGNIZED INDEPENDENT TESTING AGENCY REFERENCED ASSEMBLY.
- C. COORDINATE INSPECTION REQUIREMENTS WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING WORK. UPON REQUEST, PROVIDE DOCUMENTATIONS OF FIRE-RATED CONSTRUCTION MATERIALS, MEANS, AND METHODS.
- D. FINISHING

8.1 FINISHES - GYPSUM BOARD ASSEMBLIES (CONT.):

PART 1 - GENERAL

1.01 SUMMARY

- A. FINISHING: COMPLY WITH ASTM C840-11, REFER TO DRAWINGS FOR FINISH TYPES AND LOCATIONS.
 - 1. LEVEL 1. CONCEALED AREAS, PLENUMS, SERVICE CORRIDORS, ABOVE CEILINGS, EXCEPT PROVIDE HIGHER LEVEL OF FINISH AS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS AND ACOUSTICAL RATINGS.
 - 2. LEVEL 2. AREAS OF WATER RESISTANT GYPSUM BACKING BOARD UNDER TILE, EXPOSED AREAS WHERE APPEARANCE IS NOT CRITICAL.
 - 3. LEVEL 3. AREAS TO RECEIVE HEAVY OR MEDIUM TEXTURED COATINGS, HEAVY-GRADE WALL COVERINGS.
 - 4. LEVEL 4. AREAS TO RECEIVE FLAT SHEEN PAINT FINISH, LIGHT TEXTURED COATINGS, LIGHTWEIGHT WALL COVERINGS.
 - 5. LEVEL 5. AREAS TO RECEIVE GLOSS, SEMI-GLOSS SHEEN PAINTS, CRITICAL LIGHTING CONDITIONS.

8.2 FINISHES - ACOUSTICAL TILE CEILING:

PART 1 - GENERAL

1.01 SUMMARY

- A. PROVIDE THE FOLLOWING:
 - 1. ACOUSTICAL TILE CEILINGS, TRIM, AND CONCEALED METAL SUSPENSION SYSTEM, REFER TO INTERIOR FINISH SCHEDULE.
- 1.02 SUBMITTALS
 - A. NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.
 - B. PROVIDE 2% OF EXTRA REPLACEMENT TILE MATCHING EACH TYPE OF MATERIAL PROVIDED TO OWNER AT SUBSTANTIAL COMPLETION.
- 1.03 QUALITY ASSURANCE

PART 2 - PRODUCTS

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. PERFORMANCE, FIRE, STRUCTURAL, AND SEISMIC PERFORMANCE MEETING REQUIREMENTS OF BUILDING CODE AND LOCAL AUTHORITIES. ACOUSTICAL PERFORMANCE BASED ON PROJECT REQUIREMENTS.
- C. ACQUISITION OF MATERIALS:
 - 1. TYPE: ARMSTRONG "PRELUDE" 15/16 EXPOSED TEE SYSTEM.
 - 2. TYPE: EXPOSED GRID SYSTEM, DIRECT-HUNG DOUBLE-WEB INTERMEDIATE-DUTY SYSTEM. ASTM C 636. NON-FIRE-RESISTANCE RATED.
 - 3. FINISH: STEEL MEMBERS, TREATED AND PROTECTED AGAINST RUST AND CORROSION AND FACTOR FINISHED WITH BAKED ON VINYL ENAMEL OR POLYESTER OR ANODIZED.
 - 4. COLOR: WHITE.
 - 5. WALL MOLDING: PROVIDE WALL MOLDING, OF TYPES AND PROFILES INDICATED ON DRAWINGS AND FINISH AS SUSPENSION SYSTEM.
 - 6. ATTACHMENT: TYPE RECOMMENDED BY SUSPENSION SYSTEM MANUFACTURER FOR ATTACHMENT OR ANCHORAGE OF CEILING HANGERS TO STRUCTURE ABOVE CEILING. PROVIDE FOR NOT LESS THAN 5 TIMES THE HANGER DESIGN LOAD FOR THE STRUCTURAL CLASSIFICATION INDICATED.
 - 7. HANGER WIRE: MINIMUM NO. 12 GAGE, GALVANIZED ANNEALED STEEL WIRE. PROVIDE SEISMIC REINFORCING AS RECOMMENDED BY SUSPENSION SYSTEM MANUFACTURER FOR COMPLIANCE WITH LOCAL BUILDING CODES.
- D. HANGER WIRE: MINIMUM NO. 12 GAGE, GALVANIZED ANNEALED STEEL WIRE. PROVIDE SEISMIC REINFORCING AS RECOMMENDED BY SUSPENSION SYSTEM MANUFACTURER FOR COMPLIANCE WITH LOCAL BUILDING CODES.

PART 3 - EXECUTION

- A. MANUFACTURERS: ARMSTRONG IS SPECIFIED; EQUIVALENT PRODUCTS OF CHICAGO METALLIC, DOWN, AND NATIONAL ROLLING MILLS ARE ACCEPTABLE, OR APPROVED EQUAL.
- B. TYPE CG-1:
 - 1. STYLE: ARMSTRONG "PRELUDE" 15/16 EXPOSED TEE SYSTEM.
 - 2. TYPE: EXPOSED GRID SYSTEM, DIRECT-HUNG DOUBLE-WEB INTERMEDIATE-DUTY SYSTEM. ASTM C 636. NON-FIRE-RESISTANCE RATED.
 - 3. FINISH: STEEL MEMBERS, TREATED AND PROTECTED AGAINST RUST AND CORROSION AND FACTOR FINISHED WITH BAKED ON VINYL ENAMEL OR POLYESTER OR ANODIZED.
 - 4. COLOR: WHITE.
 - 5. WALL MOLDING: PROVIDE WALL MOLDING, OF TYPES AND PROFILES INDICATED ON DRAWINGS AND FINISH AS SUSPENSION SYSTEM.
 - 6. ATTACHMENT: TYPE RECOMMENDED BY SUSPENSION SYSTEM MANUFACTURER FOR ATTACHMENT OR ANCHORAGE OF CEILING HANGERS TO STRUCTURE ABOVE CEILING. PROVIDE FOR NOT LESS THAN 5 TIMES THE HANGER DESIGN LOAD FOR THE STRUCTURAL CLASSIFICATION INDICATED.
 - 7. HANGER WIRE: MINIMUM NO. 12 GAGE, GALVANIZED ANNEALED STEEL WIRE. PROVIDE SEISMIC REINFORCING AS RECOMMENDED BY SUSPENSION SYSTEM MANUFACTURER FOR COMPLIANCE WITH LOCAL BUILDING CODES.
- C. MISCELLANEOUS MATERIALS:
 - A. TILE ADHESIVE, STAPLES, AND SEALANT: PROVIDE TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC PROJECT CONDITIONS.
 - B. HOLD-DOWN CLIPS, IMPACT CLIPS, AND SEISMIC COMPRESSOR BRACING: PROVIDE TYPE RECOMMENDED BY MANUFACTURER FOR COMPLIANCE WITH LOCAL BUILDING CODES.

PART 3 - EXECUTION

- A. INSPECTION: COORDINATE WITH CARPENTER AND INSULATOR IN PLACING OF BACKING, BLOCKING, BRACING, AND INSULATION WHERE REQUIRED IN WALLS FOR ACOUSTICAL TREATMENT, MILLWORK, FIXTURES, FITTINGS, AND ACCESSORIES. EXAMINE SUBSTRATES FOR PROPER APPLICATION OF GYPSUM BOARD SYSTEMS. BEGINNING WORK MEANS ACCEPTANCE OF CONDITIONS.
- B. GENERAL. INSTALL GYPSUM BOARD ASSEMBLIES IN COMPLIANCE WITH ASTM C840-11. INSTALL GYPSUM BOARD ASSEMBLIES TRUE, PLUMB, LEVEL, AND IN PROPER RELATION TO ADJACENT SURFACES.
- C. TOLERANCES. NOT MORE THAN 1/16-INCH DIFFERENCE IN TRUE PLANE AT JOINTS BETWEEN ADJACENT BOARDS BEFORE FINISHING. AFTER FINISHING, JOINTS SHALL NOT BE VISIBLE. NOT MORE THAN 1/8-INCH IN 10 FEET DEVIATION FROM TRUE PLANE, PLUMB, LEVEL, AND PROPER RELATION TO ADJACENT SURFACES IN FINISHED WORK.
- D. PARTITIONS. INSTALL BOARDS VERTICALLY PARALLEL TO STUDS. DO NOT ALLOW BUTT-TO-BUTT JOINTS AND JOINTS THAT DO NOT FALL OVER FRAMING MEMBERS. ARRANGE GYPSUM BOARD JOINTS OPPOSITE SIDES OF PARTITIONS TO OCCUR ON DIFFERENT STUDS.
- E. CEILING AND SOFFITS. INSTALL BOARDS ACROSS FRAMING MEMBERS IN MANUALLY MINIMUM NUMBER OF END-BUTT JOINTS AND WHICH AVOIDS END JOINTS IN CENTRAL AREA OF CEILING AND SOFFIT. STAGGER END JOINTS AT LEAST 24-INCHES.
- F. FASTENING. FASTEN GYPSUM BOARD TO METAL STUDS WITH SPECIFIED SPACING: 8-INCHES ON CENTER FOR WALLS AND 12-INCHES ON CENTER FOR CEILING OF SINGLE LAYER APPLICATION. 24-INCHES ON CENTER FOR WALL AND 18-INCHES ON CENTER FOR BASE LAYER. 12-INCHES ON CENTER FOR WALL AND 12-INCHES ON CENTER FOR CEILING OF DOUBLE LAYER APPLICATIONS.
- G. EXPANSION/CONTROL JOINTS. INSTALL EXPANSION/CONTROL JOINTS IN CEILING AREAS EXCEEDING 2500 SQ. FT. IN AREA AND IN PARTITION AND WALL RUNS EXCEEDING 30- FEET UNLESS OTHERWISE INDICATED. DO NOT EXCEED A DISTANCE OF 50- FEET IN EITHER DIRECTION BETWEEN CONTROL JOINTS. AND INSTALL A CONTROL JOINT WHERE CEILING FRAMING IS TURNING CHANGES DIRECTION. DO NOT EXCEED A DISTANCE OF 30- FEET BETWEEN CONTROL JOINTS IN WALLS UNLESS OTHERWISE INDICATED.
- H. TRANSITIONS, TRIM, AND CORNERS:
 - 1. PROVIDE CASING BEADS WHERE EDGES OF TYPES OR COATINGS MEET DISSIMILAR MATERIALS.
 - 2. TREAT ALL INTERNAL ANGLES FORMED BY THE INTERSECTION OF EITHER WALLBOARD SURFACES WITH METAL TRIM AND/OR A TRIM JOINT AS INDICATED ON DRAWINGS.
 - 3. TREAT ALL VERTICAL AND HORIZONTAL INTERNAL CORNERS WITH METAL BEAD CORNER REINFORCEMENT APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 4. WHERE NEW PARTITIONS MEET EXISTING CONSTRUCTION, REMOVE EXISTING CORNER BEADS TO PROVIDE A SMOOTH TRANSITION.
- I. FIRE RATED SYSTEMS:
 - A. PROVIDE FIRE RATED SYSTEMS WHERE INDICATED OR WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH ASTM E119-12A.
 - B. PROVIDE FIRE RATED CONSTRUCTION MATERIALS AND INSTALLATIONS IDENTICAL WITH REQUIREMENTS OF LISTED AND RECOGNIZED INDEPENDENT TESTING AGENCY REFERENCED ASSEMBLY.
 - C. COORDINATE INSPECTION REQUIREMENTS WITH AUTHORITIES HAVING JURISDICTION PRIOR TO BEGINNING WORK. UPON REQUEST, PROVIDE DOCUMENTATIONS OF FIRE-RATED CONSTRUCTION MATERIALS, MEANS, AND METHODS.
 - D. FINISHING

8.3 FINISHES - SANITARY WALL PANELS:

PART 1 - GENERAL

1.01 SUMMARY

- A. PROVIDE SANITARY WALL PANELS AND SURFACE PREPARATION WHERE INDICATED.
- 1.02 SUBMITTALS
 - A. UPON REQUEST SUBMIT FOR APPROVAL SAMPLES, PRODUCT DATA, AND MAINTENANCE
- 1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

8.3 FINISHES - SANITARY WALL PANELS (CONT.):

PART 2 - PRODUCTS

- B. PERFORMANCE: FIRE PERFORMANCE MEETING REQUIREMENTS OF BUILDING CODE AND LOCAL AUTHORITIES.

PART 2 - PRODUCTS

- A. FIBERGLASS REINFORCED PANEL (FRP) WALL COVERING:
 - 1. MANUFACTURERS: NUDDO PRODUCTS, INC. SPECIFIED; EQUIVALENT BY CRANE COMPOSITES, INC., MARLITE, SEQUENTIA OR APPROVED EQUAL.
 - 2. PANEL TYPE: "FIBER-LITE" BY NUDDO.
 - 3. MODEL NO.: "LP-FR"
 - 4. SURFACE BURNING CHARACTERISTICS: FIRE RATING CLASS A (ASTM E-84-81A), FLAME SPREAD INDEX 25, SMOKE DEVELOPMENT VALUE 335.
 - 5. THICKNESS: 0.90 INCH MINIMUM, 9000 PSI FLEX STRENGTH (ASTM D790), 660,000 PSI TENSILE STRENGTH (ASTM D638).
 - 6. FINISH: "PEBBLE TEXTURE", EMBOSSED, TABOR ABRASION RESISTANCE 0.038.
 - 7. WATER ABSORPTION PERCENTAGE: 0.16 (ASTM D570).
 - 8. PANEL SIZES: MANUFACTURER'S STANDARD SIZES. HORIZONTAL SEAMS ARE NOT PERMITTED.
 - 9. COLOR: REFER TO DRAWINGS, UNLESS OTHERWISE INDICATED, TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD SAMPLES.
 - 10. CERTIFICATION: ICBO, USDA/FASIS.
 - 11. TRIM, EDGES, MOLDINGS, FLASHING, AND COUNTERFLASHING: PVC, VINYL OR ALUMINUM AS REQUIRED FOR MOISTURE RESISTANT ASSEMBLY. COLOR TO MATCH PANEL.
 - 12. FASTENERS: NON-CORRODING TYPE AS REQUIRED FOR SUBSTRATE ATTACHMENT. STAINLESS NAILS OR SCREWS, NYLON, CHROME, OR PLASTIC, ONE-PIECE RIVETS, FOR SANITARY MAINTENANCE. COLORS TO MATCH PANEL.
 - 13. ADHESIVE: AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATE ATTACHMENT CONDITIONS.
 - 14. SEALANT: (TO COMPLY WITH O'REILLY AUTO PARTS REQUIREMENTS).

PART 3 - EXECUTION

- 3.01 INSTALLATION
 - A. ACCLIMATE MATERIALS. PRIME AND SEAL SUBSTRATES: TEST SUBSTRATES FOR MOISTURE CONTENT AND PREPARE SURFACES IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS. SUBSTRATES MUST BE FLAT, CLEAN, DRY AND FREE OF ALL DIRT, DUST, OR GREASE.
 - B. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. APPLY ADHESIVE AND INSTALL WITH SEAMS PLUMB TO ENSURE TIGHT CLOSURE EXCEPT WHERE PATTERN WOULD NOT MATCH. DO NOT PLACE SEAMS WITHIN 6" OF CORNERS.
 - C. ADHESIVE: WALL PANELS TO BE INSTALLED WITH 100% ADHESIVE COVERAGE. FASTENERS APPLIED IN CONJUNCTION WITH ADHESIVES IN CERTAIN APPLICATIONS, WHERE NOTED IN HIGH MOISTURE CONDITIONS, UNEVEN SUBSTRATE, HIGH ABUSE AND LARGE PANELS.
 - D. EXPANSION: LEAVE NOT LESS THAN 1/4" GAP AT CEILING AND FLOOR. NOT GAP BETWEEN WALL PANELS FOR NORMAL EXPANSION AND CONTRACTION. ALLOW NOT LESS THAN 1/4" GAP AROUND PIPE, ELECTRICAL FITTINGS AND OTHER PROJECTIONS. FILLS GAPS WITH FLEXIBLE, POLYURETHANE-BASED SEALANT TO COMPLETE MOISTURE SEAL.
 - E. FASTENER POSITION: INSTALL FASTENERS NOT FARTHER THAN 8" APART AND ON OUTSIDE EDGES AND 12" APART ON INTERMEDIATE 16" CENTERS. STAGGER FASTENERS ON OPPOSITE PANEL EDGES.
 - F. SEALANT: SEAL ALL CORNER SEAMS AND BACE JUNCTIONS AND FASTENER HOLES.
 - G. REMOVE AIR BUBBLES, BLISTERS, WRINKLES AND OTHER DEFECTS. HORIZONTAL SEAMS ARE NOT PERMITTED. REMOVE EXCESS ADHESIVE IMMEDIATELY. CLEAN WALLS AND PROTECT SURFACES.

8.4 FINISHES - PAINTING:

PART 1 - GENERAL

- 1.01 SUMMARY
 - A. PROVIDE THE FOLLOWING WHERE INDICATED:
 - 1. PAINTING AND SURFACE PREPARATION FOR INTERIOR AND EXTERIOR SURFACES AS SCHEDULED.
 - 2. PAINTING AND SURFACE PREPARATION AT AREAS OF REMODELING.
- 1.02 SUBMITTALS
 - A. NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.
- 1.03 QUALITY ASSURANCE

PART 2 - PRODUCTS

- A. MANUFACTURERS: ICI-DEVCO & RAYNOLDS, BENJAMIN MOORE, PRATT AND LAMBERT, PPG INDUSTRIES, SHERWIN WILLIAMS OR APPROVED EQUAL. FIRST-LINE COMMERCIAL-QUALITY PRODUCTS FOR ALL COATING SYSTEMS.
- B. COATINGS: READY MIXED EXCEPT FIELD CATALYZED COATINGS OF 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 REQUIRED TO ACHIEVE THE FINISHES SPECIFIED.

PART 3 - EXECUTION

- 3.01 EXAMINATION AND PREPARATION
 - A. EXAMINE THE AREAS AND CONDITIONS UNDER WHICH PAINTING WORK IS TO BE PERFORMED. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. STARTING OF PAINTING WORK WILL BE CONSTRUED AS ACCEPTANCE OF THE SURFACES WITHIN ANY PARTICULAR AREAS.
 - B. PERFORM ALL PREPARATION AND CLEANING PROCEDURES IN STRICT ACCORDANCE WITH THE COATING MANUFACTURER'S INSTRUCTIONS AND AS HEREIN SPECIFIED. REMOVE ALL HARDWARE, 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 THE COMPLETE PAINTING OF THE ITEMS AND ADJACENT SURFACES. RE-INSTALL THE REMOVED ITEMS BY WORKMEN SKILLED IN THE TRADES INVOLVED, AFTER PAINTING IS COMPLETE.
 - C. CEMENTITIOUS MATERIALS: PREPARE CEMENTITIOUS SURFACES TO BE PAINTED BY REMOVING ALL CHALK, DUST, DIRT, GREASE, OILS, AND BY ROUGHENING AS REQUIRED TO REMOVE GLAZE. DETERMINE THE ALKALINITY AND MOISTURE CONTENT OF THE SURFACES TO BE PAINTED BY PERFORMING APPROPRIATE TEST. IF THE SURFACES ARE FOUND TO BE SUFFICIENTLY ALKALINE TO CAUSE BLISTERING AND BURNING OF THE FINISH PAINT, CORRECT THIS CONDITION BEFORE APPLICATION OF PAINT.
 - D. WOOD: CLEAN WOOD SURFACES TO BE PAINTED OF ALL DIRT, OIL, OR OTHER FOREIGN SUBSTANCES WITH SCRAPERS, MINERAL SPIRITS, AND SANDPAPER, AS REQUIRED. SANDPAPER SMOOTH THOSE SURFACES EXPOSED TO VIEW AND DUST OFF. PRIME, STAIN, OR SEAL WOOD REQUIRED TO BE JOB PAINTED IMMEDIATELY UPON DELIVERY TO JOB. PRIME EDGES, ENDS, FACES, UNDERSIDES, AND BACKSIDES OF SUCH WOOD, INCLUDING CABINETS, COUNTERS, CASES, ETC. SCRAPE AND CLEAN SMALL, DRY SEASONED KNOTS, AND APPLY A THIN COAT OF WHITE SHELLAC OR OTHER RECOMMENDED KNOT SEALER BEFORE APPLICATION OF THE PRIMING COAT. AFTER PRIMING, FILL HOLES AND IMPERFECTIONS IN FINISH SURFACES WITH PUTTY OR PLASTIC WOOD FILLER. SANDPAPER SMOOTH WHEN DRIED.
 - E. GYPSUM WALLBOARD: DO NOT PAINT OVER GYPSUM WALLBOARD WORK UNTIL TAPED JOINTS ARE THOROUGHLY DRY.
 - F. FERROUS METALS: TOUCH-UP SHOP APPLIED PRIME COATS WHICH HAVE DAMAGED OR BARE AREAS. WIRE-BRUSH, SOLVENT CLEAN, AND TOUCH UP WITH THE SAME PRIMER AS THE SHOP COAT.

8.4 FINISHES - PAINTING (CONT.):

- G. GALVANIZED SURFACES: CLEAN FREE OF OIL AND SURFACE CONTAMINATES WITH AN ACCEPTABLE NON-PETROLEUM BASED SOLVENT.
- H. ALUMINUM: REMOVE FILM OF OIL AND GREASE BEFORE PAINTING BY WASHING WITH MINERAL SPIRITS.
- I. EXISTING MATERIALS TO REMAIN: AT EXISTING AREAS TO BE RE-PAINTED, REMOVE BLISTERED OR PEELING PAINT TO SOUND SUBSTRATES. REMOVE CHALK DEPOSITS AND MILDEW AND WASH ALL SURFACES WITH MILD DETERGENT. PERFORM RELATED MINOR PREPARATION INCLUDING CAULK AND GLAZING COMPOUNDS. SPOT-PRIME DARE AREAS BEFORE PRIMING AND PAINTING AS SPECIFIED.
- J. "SPLIT FACE AND SMOOTH FACE APPLICATIONS: INDIVIDUAL JOB APPLICATIONS WILL REQUIRE THAT THE CONTRACTOR PAY PARTICULAR ATTENTION TO THE WEATHER CONDITIONS PRIOR TO AND DURING APPLICATIONS OF PRODUCTS. A COLD WEATHER APPLICATION IS GIVEN IF THE TEMPERATURES ARE SUCH THAT IT IS NECESSARY FOR INSTALLATION. ALL MANUFACTURERS' APPLICATION DATA SHOULD BE FOLLOWED ON TEMPERATURE AND HUMIDITY INSTALLATION.
- K. SPLIT FACE AND SMOOTH FACE APPLICATIONS: INDIVIDUAL JOB APPLICATIONS WILL REQUIRE THAT THE CONTRACTOR PAY PARTICULAR ATTENTION TO THE WEATHER CONDITIONS PRIOR TO AND DURING APPLICATIONS OF PRODUCTS. A COLD WEATHER APPLICATION IS GIVEN IF THE TEMPERATURES ARE SUCH THAT IT IS NECESSARY FOR INSTALLATION. ALL MANUFACTURERS' APPLICATION DATA SHOULD BE FOLLOWED ON TEMPERATURE AND HUMIDITY INSTALLATION.
- L. UPON INSTALLATION, THE CONTRACTOR SHALL CONFIRM A PIN HOLE FREE SURFACE. IN EVENT OF THE COATING SYSTEM. AFTER APPLICATION, THE CONTRACTOR SHALL PEER DOWN ON THE WALL FROM THE TOP OF THE BUILDING TO MAKE SURE ALL OF THE LEDGES ARE COVERED AND ARE PIN HOLE FREE. IT IS RECOMMENDED THAT THE PRODUCTS ARE SPRAYED UP, DOWN AND SIDE-TO-SIDE. IT IS ALSO RECOMMENDED THAT THE APPLICATION BE BACK ROLLED AS WELL FOR PROPER COVERAGE. CONTRACTOR MUST ALSO VERIFY MIL THICKNESS AT EACH COATING PRIOR TO APPLYING SUCCESSFUL COATINGS.

3.02 APPLICATION

- A. APPLY PAINT BY BRUSH, ROLLER, SPRAY, OR OTHER ACCEPTABLE PRACTICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. USE BRUSHES SPECIALLY SUITED FOR THE TYPE OF MATERIAL BEING APPLIED. USE ROLLERS OR CARPET KNEEVEY BACK AND SHELLAC RECOMMENDED BY THE MANUFACTURER FOR MATERIAL AND TYPE OF SURFACE TO BE PAINTED.
- B. THE NUMBER OF COATS AND PAINT FILM THICKNESS REQUIRED IS THE SAME REGARDLESS OF THE APPLICATION METHOD. DO NOT APPLY SUCCEEDING COATS UNTIL PREVIOUS COAT HAS COMPLETELY DRIED. SAND BETWEEN EACH ENAMEL OR FINISH COAT APPLICATION WITH FINE SAND PAPER, OR RUB SURFACES WITH FINE STONE WHERE REQUIRED TO PROVIDE AN EVEN SMOOTH SURFACE IN ACCORDANCE WITH COATING MANUFACTURER'S DIRECTIONS.
- C. APPLY ADDITIONAL COATS WHEN OVERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH THE FINAL COAT. PAINT, UNTIL THE PAINT IS UNIFORM FINISH, COLOR AND APPEARANCE. GIVE SPECIAL ATTENTION TO INSURE THAT ALL SURFACES, INCLUDING EDGES, CORNERS, CREVICES, MOULDINGS, AND EXPANDED FASTENERS RECEIVE A FILM THICKNESS EQUIVALENT OF THAT OF FLAT SURFACES.

3.03 SCHEDULE OF TREATMENTS

- A. INTERIOR GYPSUM BOARD OR PLASTER WALLS AND CEILING:
 - 1. ONE COAT OF LATEX PRIMER SEALER.
 - 2. TWO COATS OF ACRYLIC LATEX PAINT.
 - 3. INTERIOR WOOD: TRANSPARENT.
 - 4. FILLER COAT (FOR OPEN GRAINED WOOD ONLY).
 - 5. ONE COAT OF STAIN.
 - 6. ONE COAT OF SEALER.
 - 7. TWO COATS OF VARNISH, SATIN.
- C. EXTERIOR AND INTERIOR WOOD- PAINTED:
 - 1. ONE COAT OF ACRYLIC PRIMER SEALER.
 - 2. TWO COATS OF EXTERIOR ACRYLIC PAINT.
- D. EXTERIOR AND INTERIOR FERROUS METAL:
 - 1. ONE COAT OF RUST-INHIBITING PRIMER.
 - 2. TWO COATS EXTERIOR ALKYD PAINT.
- E. EXTERIOR AND INTERIOR GALVANIZED METAL:
 - 1. CHEMICAL WASH.
 - 2. GALVANIZED IRON PRIMER.
 - 3. TWO COATS EXTERIOR ALKYD PAINT.
- F. EXTERIOR AND INTERIOR CONCRETE, CONCRETE BLOCK:
 - a. GENERAL APPLICATION
 - 1. ONE COAT INTERIOR/EXTERIOR LATEX BLOCK FILLER. EQUAL TO SHERWIN WILLIAMS "PREPRITE"
 - 2. BLOCK FILLER B25W25" NOT LESS THAN 8 MILS THICK.
 - 3. TWO COATS ELASTOMERIC COATING. EQUAL TO SHERWIN WILLIAMS "CONFLEX XL SMOOTH ELASTOMERIC A5-400". NOT LESS THAN 5.7 MILS THICK EACH COAT.
 - b. COLD WEATHER APPLICATION
 - 1. ONE COAT ACRYLIC RESIN BLOCK SURFACER. EQUAL TO SHERWIN WILLIAMS "LOXON BLOCK SURFACER". NOT LESS THAN 8 MILS THICK.
 - 2. TWO COATS SOLVENT BORNE MASONRY COATING (WATERPROOF SEALER). EQUAL TO SHERWIN WILLIAMS "ULTRACRETE SOLVENT BORNE SMOOTH B46". NOT LESS THAN 8 MILS EACH COAT OR 16 MILS TOTAL.

9.0 SPECIALTIES - TOILET ACCESSORIES:

PART 1 - GENERAL

1.01 SUMMARY

- A. PROVIDE TOILET ACCESSORIES AND METAL FRAMED MIRRORS.

1.02 SUBMITTALS

- A. NONE REQUIRED UNLESS SUBMITTING FOR APPROVED EQUALS.

1.03 QUALITY ASSURANCE

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. REGULATIONS: ADAAG AND LOCAL ACCESSIBILITY REQUIREMENTS.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. MANUFACTURERS: BOBRICK SPECIFIED; EQUIVALENT BY AMERICAN SPECIALTIES INC., BRADLEY CORP., GAMOO, FORT HOWARD, ACCESSORY SPECIALTIES, SEACHROME CORPORATION, OR APPROVED EQUAL B. SCHEDULE: REFER DRAWING TOILET ACCESSORIES SCHEDULE FOR TYPES AND MODEL NUMBERS.
- C. MATERIALS AND FINISHES:
 - 1. STAINLESS STEEL: ASTM A 167, AISI TYPE 302 OR 304. NO. 4 POLISHED FINISH; 22 GAGE MINIMUM.
 - 2. CHROMIUM PLATED BRASS OR STEEL: ASTM B 456, TYPE SC 2.
 - 3. BAKED ENAMEL ON STEEL. FACTORY-APPLIED GLOSS WHITE.
 - 4. SHEET STEEL: ASTM A368.
 - 5. TUBING: ASTM A328 STAINLESS STEEL.
 - 6. ADHESIVE: CONTACT, WATERPROOF, AS RECOMMENDED BY ACCESSORY MANUFACTURER.
 - 7. FASTENERS, SCREWS, AND BOLTS: HOT DIP GALVANIZED STEEL, TAMPER-PROOF. SIZES AND SPACING AS RECOMMENDED BY ACCESSORY MANUFACTURER.
 - 8. GLAZING: MIRROR GLASS, 1/4-INCH THICK, ASTM C 1038.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS.
- B. INSTALL UNITS PLUMB AND LEVEL, FIRMLY ANCHORED IN LOCATION AND AT HEIGHTS INDICATED OR DIRECTED BY ARCHITECT.
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