PART 0 A/E INSTRUCTIONS

0.01 GENERAL DESIGN REQUIREMENTS

A. Use only fire rated Type- X gypsum board throughout to avoid using non-rated in fire rated assemblies

B. Use only 5/8” thick gypsum board. All other sizes will require approval by the DPS Project Manager.

C. Architect shall coordinate sound and vibration issues

D. Provide fiber reinforced gypsum board only in areas where heavy abuse may occur. Coordinate with the DPS Project Manager those locations, but shall include:

1. Ceilings and soffits within ten feet from the floor.
2. Corridor walls within four feet of the floor.

E. Architect shall provide ample control joints to avoid cracking, provide location and detail on the drawings.

F. Control joints shall not carry over structural systems.

G. Architect shall coordinate the requirements where fire rated ceiling and wall assemblies occur, where required. Provide details for walls meeting underside of deck.

H. Architect shall verify with the DPS Project Manager any sound special acoustical or vibration separation requirements, i.e. music rooms.

I. Architect shall coordinate fire treated blocking for all corner guard locations, and all other items requiring mounting support, if used as a wall material.

J. Architect to coordinate metal framing requirements and those of this section.

K. All corner beads shall be screw attached, not just crimped.

L. Do not use gypsum board in exterior applications as an exterior finish material.

M. Architect to specify water-resistant gypsum board in areas with exposure to humidity and water.

N. Hold gypsum a minimum of 1/8”, maximum 1/2" above the floor to allow for caulking.

O. Provide cementitious backer board for shower rooms, toilet rooms, kitchens, and any other areas to receive tile finishes, coordinate with DPS Project Manager.

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Provide assembly ratings and numbers as designated by UL, Warnock Hersey or other testing agenices accepted by the Denver Building Department.

B. Provide all Gypsum board from a single souce .

C. Impact resistance for Abuse Resistant- no failure after 100 impacts when tested with ASTM E 69 modified.

1.02 SUBMITTALS

A. Shop Drawings showing layout of control joints.

B. Installation Instructions and product data.

C. Samples of each face materials, texture and accessory to be utilized

D. Manufacturer’s certification that gypsum is free of asbestos.

PART 2 PRODUCTS

2.01 MATERIALS

A. Gypsum Board –beveled tapered edge.

1. 5/8” Type ' X '
2. 5/8” Abusive Resistive type ' X '.
3. Exterior sheathing shall be water resistant material only.
4. Tile backer board: Fiber reinforced cement boards, ½” minimum thickness. Comply with fire rating requirements where required.

B. Trim –including but not limited to:

1. Expansion joints
2. Reveals
3. Corner Beads
4. Acoustical

C. Joint Treatment

1. Joint Tape
2. Joint Compound
3. Wet area- use fiberglass mesh joint tape and chemically cured joint compound.
4. Provide casing beads at joints of dissimilar materials and recessed items such as cover plates.- provide detail.

D. Acoustical sealants

1. Caulk
2. Closed cell foam tape

E. Sound Insulation

1. Un-faced fiberglass 2" minimum sound batts.

2.02 FINISHES

A. Trim

1. Painted
2. Zinc Alloy
3. Galvanized

B. Gypsum

1. Smooth, skim coat
2. Sprayed on Texture
   a. walls
   b. ceiling

PART 3 EXECUTION

3.01 INSTALLATION

A. Install all gypsum board and trim accessories in strict conformance to manufacturer’s installation instructions and meeting finishing standards ASTM C 840 and GA-216 and as specified herein.

B. Finishing of assemblies

1. General: Apply joint treatment at gypsum board joints (both directions); flanges of corner bead, edge trim, and control joints; penetrations; fastener heads, surface defects; and elsewhere as required to prepare gypsum board surfaces for decoration and levels of finish indicated.

2. Pre-fill open joints, rounded or beveled edges, and damaged areas using setting type joint compound.
3. Apply joint tape over gypsum board joints except those with trim accessories having concealed face flanges not requiring taping to prevent cracks from developing in joint treatment at flange edges.
4. Provide one of the following levels of finish.

C. Levels of finish (GA-216)

1. Level 1: Plenums and service corridors
2. Level 2: Water resistant gypsum backing board scheduled to receive tile.
3. Level 3: Gypsum board scheduled to receive heavy or medium textured coatings and heavy-grade wall coverings.
4. Level 4: Gypsum board scheduled to receive light textured coatings and light-grade wall coverings.
5. Level 5: All other gypsum board.
   a. For level 5 finish, embed tape in joint compound and apply three separate coats of joint compound over joints, angles, fasteners heads, and accessories. Touch up and sand between coats and after last coat as needed to produce a surface free of visual defects and ready for decoration. Use the following joint compound combinations:
      1) Embedding and first coat: Ready-mixed, drying type, all purpose or taping compound
      2) Fill (Second coat)L Ready-mixed, drying type, all purpose or topping compound.
      3) Finish (Third coat): Ready-mixed, drying type, all purpose or topping compound.

END OF SECTION 09250