



## Addendum #2

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and/or prior Addenda as noted below. All conditions, requirements, materials, and workmanship are to be as described in the Contract Documents unless specifically stated otherwise. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of (9) 8 1/2" x 11" sheets, (0) 11" x 17" sheets, and (0) 24" x 36" sheets.

Date	Owner Property Number	Owner Building Number	BHDA Project Number
Fri, 28 Apr 2017	510-1409	1	1621

Project Designation	Project Address
Lakeridge 1, 4, 7 Remodel Orem UT Lakeridge Stake	158 East 1100 South Orem, Utah 84058

**Copies To**

Milan Malkovich, Church Project Manager  
Lynn Adams, Church Facilities Manager  
Invited Bidders  
Plan Rooms  
Architect's Consultants

Bid Opening Time	Bid Opening Location
Tue, 2 May 2017, at 2:00 pm	UT American Fork Project Management Office 110 East Main Street American Fork, UT 84003

### 1. Changes to Prior Addenda

1.01. None.

### 2. Changes to Procurement and Contracting Requirements

2.01. None.

### 3. Changes to Specifications

#### 3.01. Section 09 2900 Gypsum Board

A. Add the attached new Section 09 2900 to the project Manual.

### 4. Changes to Drawings

#### 4.01. Sheet A101 Enlarged Demolition Plans and Enlarged Plans

A. Add following note "H" to the General Notes:

"H. Patch brick walls disturbed by construction with brick to match existing. At the contractor's option, the entire brick wall (not just a portion) at the plumbing chases may be removed and replaced with a 2x4 wood stud wall at 16" on center with 5/8" tile backer system."

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**4.02. Sheet C101 Site Plan and Details**

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- A. Remove and reinstall Mitsubishi unit and pad outside of Family Restroom 184.
- B. Change Keynote 4 to read as follows:
  - "4. Remove existing tee, stump, and roots within 12" of finished grade. Regrade area and install new sod."
- C. Add the following note "2" to the General Notes:
  - "2. At all landscaped areas disturbed by new construction, repair irrigation and landscaping as necessary."

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**4.03. Sheet P101 Enlarged Plumbing Plans**

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- A. Keyed Note 11:
  - 1. For clarification, the estimated depth at the bottom of the existing 18" air duct is 34" below finished floor elevation.

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**End of Addendum #2**

**SECTION 09 2900****GYPSUM BOARD****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
  - 1. Furnish and install gypsum board as described in Contract Documents, except behind ceramic tile.
- B. Related Requirements:
  - 1. Section 09 3013: 'Ceramic Tile' for installation of backerboard joint reinforcing.
  - 2. Section 09 9413: 'Interior Textured Finishing'.

**1.2 REFERENCES**

- A. Definitions:
  - 1. Accessories: Metal or plastic beads, trim, or moulding used to protect or conceal corners, edges, or abutments of the gypsum board construction.
  - 2. Drywall Primer: Paint material specifically formulated to fill the pores and equalize the suction difference between gypsum board surface paper and the compound used on finished joints, angles, fastener heads, and accessories and over skim coatings.
  - 3. Skim Coat: Either a thin coat of joint compound trowel applied, or a material manufactured especially for this purpose and applied in accordance with manufacturer's recommendations, over the entire surface.
  - 4. Texturing: Regular or irregular patterns typically produced by applying a mixture of joint compound and water, or proprietary texture materials including latex base texture paint, to a gypsum board surface previously coated with drywall primer.
- B. Reference Standards:
  - 1. ASTM International:
    - a. ASTM C11-15, 'Standard Terminology Relating to Gypsum and Related Building Materials and Systems'.
    - b. ASTM C475/C475M-15, 'Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board'.
    - c. ASTM C840-13, 'Standard Specification for Application and Finishing of Gypsum Board'.
    - d. ASTM C1002-14, 'Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs'.
    - e. ASTM C1047-14a, 'Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base'.
    - f. ASTM C1178/C1178M-13, 'Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel'.
    - g. ASTM C1396/C1396M-14, 'Standard Specification for Gypsum Board'.
    - h. ASTM E84-15, 'Standard Test Method for Surface Burning Characteristics of Building Materials'.
    - i. ASTM E119-15, 'Standard Test Method for Fire Tests of Building Construction and Materials'.
  - 2. Gypsum Association:
    - a. GA-214-15, 'Recommended Levels of Gypsum Board Finish'.
    - b. GA-216-10: 'Application and Finishing of Gypsum Panel Products'.
    - c. GA-600-15, 'Fire Reference Design Manual'.

- d. GA-801-07, 'Handling and Storage of Gypsum Panel Products: A Guide for Distributors, Retailers, and Contractors'.
3. International Building Code (IBC) (2015 or latest approved version):
  - a. Chapter 25, 'Gypsum Board And Plaster'.
4. Underwriters Laboratories, Inc.
  - a. UL 263: 'Test Method for Fire Tests of Building Construction and Materials' (14th Edition).
  - b. UL 723: 'Test for Surface Burning Characteristics of Building Materials; (10th Edition).

### 1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
  1. Schedule pre-installation conference immediately before installation of gypsum wallboard.
  2. In addition to agenda items specified in Section 01 3100, review following:
    - a. Finish requirements necessary for installation of finish materials over gypsum wallboard, and location and installation of ceramic tile backerboard.

### 1.4 SUBMITTALS

- A. Informational Submittals:
  1. Test And Evaluation Reports:
    - a. Fire test results or assembly diagrams and numbers confirming products used will provide required fire ratings with installation configurations used.

### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. General:
  1. Following recommendations of GA-801 Guide for Handling and Storage of Gypsum Panel Products unless local, state or federal laws or agency rules differing from the recommendations shall take precedence.
- B. Delivery And Acceptance Requirements:
  1. Deliver materials in original packages, containers, or bundles bearing brand name, applicable standard designation, and Manufacturer's name.
- C. Storage And Handling Requirements:
  1. Store material under roof and keep dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack gypsum board flat to prevent sagging.

### 1.6 FIELD CONDITIONS

- A. Ambient Conditions:
  1. Comply with ASTM C840 or GA-216 requirements, whichever are more stringent:
    - a. Do not install interior products until installation areas are enclosed and conditioned.
      - 1) Temperature shall be 50 deg F (10 deg C) and 95 deg F (35 deg C) maximum day and night during entire joint operation and until execution of Certificate of Substantial Completion.
      - 2) Provide ventilation to eliminate excessive moisture.
      - 3) Avoid hot air drafts that will cause too rapid drying.
    - b. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

#### A. Manufacturers:

1. Manufacturer Contact List:
  - a. American Gypsum, Dallas, TX [www.americangypsum.com](http://www.americangypsum.com).
  - b. CertainTeed Gypsum, Inc; Tampa, FL [www.certainteed.com](http://www.certainteed.com).
  - c. Georgia Pacific, Atlanta, GA [www.gp.com](http://www.gp.com).
  - d. National Gypsum, Charlotte, NC [www.nationalgypsum.com](http://www.nationalgypsum.com).
  - e. Pabco Gypsum, Newark, CA [www.pabco gypsum.com](http://www.pabco gypsum.com).
  - f. United States Gypsum Co, Chicago, IL [www.usg.com](http://www.usg.com).

#### B. Materials:

1. Interior Gypsum Board:
  - a. General:
    - 1) Size:
      - a) Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
    - 2) Class Two Quality Standard:
      - a) Core: Fire-resistant rated gypsum core.
      - b) Complies with Type X requirements of ASTM C1396/C1396M (Section 5).
      - c) Surface paper: Face paper suitable for painting.
      - d) Long edges: Tapered edge.
      - e) Overall thickness: **5/8 inch (15.9 mm)**.
2. Glass Mat Gypsum Tile Backer:
  - a. Product meeting requirements of ASTM C1178/C1178M.
  - b. **5/8 inch (15.9 mm)**.
  - c. Square edges.
  - d. Category Four Approved Manufacturer. See Section 01 6200 for definitions of Categories:
    - 1) DensShield Tile Backer by Georgia Pacific.
    - 2) GlasRoc Tilebacker by CertainTeed.

### 2.2 ACCESSORIES

#### A. Manufacturers:

1. Manufacturer Contact List:
  - a. Kinetics Noise Control, Dublin, OH [www.kineticsnoise.com](http://www.kineticsnoise.com).
  - b. Magnum Products, Lenaxa, KS [www.levelcoat.com](http://www.levelcoat.com).
  - c. National Gypsum, Charlotte, NC [www.nationalgypsum.com](http://www.nationalgypsum.com).
  - d. Soundproofing Co, San Marcos, CA [www.soundproofing.org](http://www.soundproofing.org).
  - e. United States Gypsum Co, Chicago, IL [www.usg.com](http://www.usg.com).
  - f. Westpac Materials Inc, Orange, CA [www.westpacmaterials.com](http://www.westpacmaterials.com).
  - g. Wm. Zinsser & Co, Somerset, NJ [www.zinsser.com](http://www.zinsser.com).
2. Gypsum Board Mounting Accessories:
  - a. Furring Channels:
    - 1) Class Two Quality Standards. See Section 01 6200 for definitions:
      - a) Walls: Galvanized DWFC-25.
    - 2) Accessories as required by Manufacturer's fire tests to provide necessary fire ratings.
  - b. Corner And Edge Trim:
    - 1) Metal, paper-faced metal, paper-faced plastic, or solid vinyl meeting requirements of ASTM C1047. Surfaces to receive bedding cement treated for maximum bonding.
  - c. Control Joint:
    - 1) Bent zinc sheet with V-shaped slot, perforated flanges, covered with plastic tape meeting requirements of ASTM C1047.
3. Joint Compound:

- a. Best grade or type recommended by Board Manufacturer and meeting requirements of ASTM C475/C475M.
  - 1) Use Taping Compound for first coat to embed tape and accessories.
  - 2) Use Taping Compound or All-Purpose Compound for subsequent coats except final coat.
  - 3) Use Finishing Compound for final coat and for skim coat.
4. Joint Reinforcing:
  - a. Paper reinforcing tape acceptable to Gypsum Board Manufacturer.
5. Fasteners:
  - a. Bugle head screws meeting requirements of ASTM C1002:
    - 1) Gypsum Board:
      - a) Type W: For fastening gypsum board to wood members, of length to penetrate wood framing **5/8 inch (15.9 mm)** minimum.
      - b) Type S: For fastening gypsum board to steel framing and ceiling suspension members, of length to penetrate steel framing **3/8 inch (9.5 mm)** minimum.
    - 2) Glass Mat Gypsum Tile Backer:
      - a) Wood Framing: **11 ga (0.1233 in) (3.1318 mm)**, galvanized with **7/16 inch (11 mm)** head, hot dipped. Screws: Type W or Type S Hi-Lo, bugle head, rust resistant.
      - b) Metal Framing:
        - (1) Light-gauge metal framing: Type S Hi-Lo, bugle or wafer head, self-tapping, rust resistant. Hi-Lo screws.
        - (2) Heavy-gauge metal framing: Type S-12 Hi-Lo, bugle or wafer head, rust resistant.
- B. Primer / Surfacer On Surfaces To Receive Texturing:
  1. Type Two Acceptable Products:
    - a. Sheetrock First Coat by USG.
    - b. Prep Coat by Westpac Materials.
    - c. Level Coat by Magnum Products.
    - d. Equal as approved by Architect before bidding. See Section 01 6200.
- C. Primer On Surfaces To Receive Wallcovering:
  1. White, self-sizing, water based, all purpose wallcovering primer.
  2. Type Two Acceptable Products:
    - a. Shieldz Universal Pre-Wallcovering Primer by Wm. Zinsser and Company.
    - b. Equal as approved by Architect before application. See Section 01 6200.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verification Of Conditions:
  1. Examine substrate and verify framing is suitable for installation of gypsum board.
  2. Examine gypsum board before installation. Reject panels that are wet, moisture damaged, and mold damaged.
  3. Notify Architect of unsuitable conditions in writing.
    - a. Do not install board over unsuitable conditions.
  4. Commencement of Work by installer is considered acceptance of substrate.

### 3.2 INSTALLATION

- A. Interface With Other Work:
  1. Coordinate with Division 06 for location of backblocking for edges and ends of gypsum board and for blocking required for installation of equipment and building specialties.
  2. Do not install gypsum board until required blocking is in place.

- B. General: Install and finish as recommended in ASTM C840 or GA-216 unless specified otherwise in this Section.
- C. Interior Gypsum Board:
1. General:
    - a. Install so trim and reinforcing tape are fully backed by gypsum board. No hollow spaces between pieces of gypsum board over **1/8 inch (3 mm)** wide before taping are acceptable.
    - b. Rout out backside of gypsum board to accommodate items that extend beyond face of framing, but do not penetrate face of gypsum board, such as metal door frame mounting brackets, etc.
    - c. On walls over **108 inches (2 700 mm)** high, apply board perpendicular to support
    - d. Butt edges in moderate contact. Do not force in place. Shim to level.
    - e. Leave facings true with joint, finishing flush. Vertical work shall be plumb and ceiling surfaces level.
    - f. Scribe work closely:
      - 1) Keep joints as far from openings as possible.
      - 2) If joints occur near an opening, apply board so vertical joints are centered over openings.
      - 3) No vertical joints shall occur within **8 inches (200 mm)** of external corners or openings.
    - g. Install board tight against support with joints even and true. Tighten loose screws.
    - h. Caulk perimeter joints in sound insulated rooms with specified acoustical sealant.
  2. Ceilings:
    - a. Apply ceilings first using minimum of two (2) men.
    - b. Use board of length to give minimum number of joints.
    - c. Apply board perpendicular to support.
    - d. Chapel and Cultural Hall:
      - 1) Double Layer Application:
        - a) Apply base layer:
          - (1) End and edge joints of board applied on ceilings do not need to be back blocked in field area of ceiling.
          - (2) **2x4 (38 mm by 89 mm)** blocking is required at wall to ceiling transitions and at top of ceiling vault transitions.
        - b) Apply face layer with joints staggered in relationship to base and occurring over supports:
          - (1) Use combination of adhesive and screws if required to meet Manufacturer's specifications for fire-rated assembly.
          - (2) Apply screws attaching face layer through base layer into support for specified penetration.
  3. Fastening:
    - a. Apply from center of board towards ends and edges.
    - b. Apply screws **3/8 inch (9.5 mm)** minimum from ends and edges, **one inch (25 mm)** maximum from edges, and **1/2 inch (13 mm)** maximum from ends.
    - c. Spacing:
      - 1) Ends: Screws not over **7 inches (175 mm)** on center at edges where blocking or framing occurs.
      - 2) Wood Framed Walls And Ceilings: Screws **7 inches (175 mm)** on center in panel field.
      - 3) Metal Framed Walls: Screws **12 inches (300 mm)** on center in panel field.
    - d. Set screw heads **1/32 inch (0.8 mm)** below plane of board, but do not break face paper. If face is accidentally broken, apply additional screw **2 inches (50 mm)** away.
    - e. Screws on adjacent ends or edges shall be opposite each other.
    - f. Drive screws with shank perpendicular to face of board.
  4. Trim:
    - a. Corner Beads:
      - 1) Attach corner beads to outside corners.
        - a) Attach metal corner bead with staples spaced **4 inches (100 mm)** on center maximum and flat taped over edges of corner bead. Also, apply screw through edge of corner bead where wood trim will overlay corner bead.
        - b) Set paper-faced trim in solid bed of taping compound.

- b. Edge Trim: Apply where gypsum board abuts dissimilar material. Hold channel and 'L' trim back from exterior window and door frames **1/8 inch (3 mm)** to allow for caulking.
5. Finishing:
- a. General:
    - 1) Tape and finish joints and corners throughout building as specified below to correspond with final finish material to be applied to gypsum board. When sanding, do not raise nap of gypsum board face paper or paper-faced trim.
    - 2) First Coat:
      - a) Apply tape over center of joint in complete, uniform bed of specified taping compound and wipe with a joint knife leaving a thin coating of joint compound. If metal corner bead is used, apply reinforcing tape over flange of metal corner bead and trim so half of tape width is on flange and half is on gypsum board.
      - b) Completely fill gouges, dents, and fastener dimples.
      - c) Allow to dry and sand lightly if necessary to eliminate high spots or excessive compound.
    - 3) Second Coat:
      - a) Apply coat of specified joint compound over embedded tape extending **3-1/2 inches (88 mm)** on both sides of joint center. Use finishing compound only if applied coat is intended as final coat.
      - b) Re-coat gouges, dents, and fastener dimples.
      - c) Allow to dry and sand lightly to eliminate high spots or excessive compound.
    - 4) Third Coat: Apply same as second coat except extend application **6 inches (150 mm)** on both sides of joint center. Allow to dry and sand with fine sandpaper or wipe with damp sponge.
    - 5) Fourth Coat: Apply same as second coat except extend application **9 inches (425 mm)** on both sides of joint center. Allow to dry and sand with fine sandpaper or wipe with damp sponge.
  - a. Finishing Levels: Finish panels to levels indicated below and according to ASTM C840, GA-214 and GA-216:
    - 1) Gypsum Board Surfaces not painted or finished:
      - a) GA-214 Level 1: 'All joints and interior angles shall have tape set in joint compound. Surface shall be free of excess joint compound. Tool marks and ridges are acceptable'.
    - 2) Gypsum Board Surfaces Under Acoustical Tile:
      - a) GA-214 Level 2: 'All joints and interior angles shall have tape embedded in joint compound and wiped with a joint knife leaving a thin coating of joint compound over all joints and interior angles. Fastener heads and accessories shall be covered with a coat of joint compound. Surface shall be free of excess joint compound. Tool marks and ridges are acceptable. Joint compound applied over the body of the tape at the time of tape embedment shall be considered a separate coat of joint compound and shall satisfy the conditions of this level.
      - b) Note: It is critical that gypsum board ceiling be smooth before installing ceiling tile. Drywall joints must be as specified in paragraph above.
    - 3) Gypsum Board Surfaces to Receive: Wall Covering Type A - Section 09 7226: 'Sisal Wall Covering':
      - a) GA-214 Level 3: 'All joints and interior angles shall have tape embedded in joint compound and one additional coat of joint compound applied over all joints and interior angles. Fastener heads and accessories shall be covered with two separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified wall covering primer'.
    - 4) Gypsum Board Surfaces to Receive: Acoustic Wall Fabric Type B - Section 09 7216, 'Vinyl-Coated Fabric Wall Covering':
      - a) GA-214 Level 4: 'All and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over all flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be covered with three separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.



- 5) Gypsum Board Surfaces to Receive: Painted Texturing - Section 09 9413: 'Interior Textured Finishing':
    - a) GA-214 Level 4: 'All and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over all flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be covered with three separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.
  - 6) Gypsum Board Surfaces to Receive: Smooth Gypsum Board Surfaces:
    - a) GA-214 Level 4: 'All and interior angles shall have tape embedded in joint compound and two separate coats of joint compound applied over all flat joints and one separate coat of joint compound applied over interior angles. Fastener heads and accessories shall be covered with three separate coats of joint compound. All joint compound shall be smooth and free of tool marks and ridges. Coat prepared surface with specified primer'.
- D. Glass Mat Gypsum Tile Backer:
1. Apply glass mat gypsum tile backer to framing. Attach using specified fasteners spaced **6 inches (150 mm)** on center on edges and into all framing members. Drive screws flush with surface of board.
  2. Shim board to be plumb and flat or level and flat, depending on location.
  3. Apply reinforcing only at joints where abutting different materials.

### 3.3 FIELD QUALITY CONTROL

- A. Non-Conforming Work:
1. Remove and replace panels that are wet, moisture damaged, and mold damaged.
    - a. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
    - b. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

### 3.4 CLEANING

- A. Remove from site debris resulting from work of this Section including taping compound spills.

**END OF SECTION**