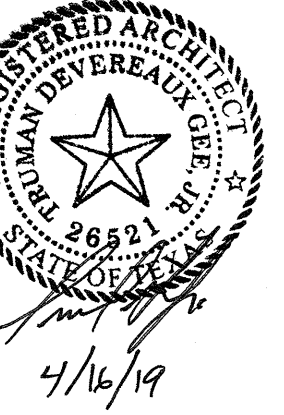


SEAL:



3.03 INSTALLING FRAMED ASSEMBLIES

A. WHERE STUDS ARE INSTALLED DIRECTLY AGAINST EXTERIOR MASONRY WALLS OR DISSIMILAR METALS AT EXTERIOR WALLS, INSTALL ISOLATION STRIP BETWEEN STUDS AND EXTERIOR WALL.  
B. INSTALL TRACKS (RUNNERS) AT FLOORS AND OVERHEAD SUPPORTS. EXTEND FRAMING FULL HEIGHT TO STRUCTURAL SUPPORTS OR SUBSTRATES ABOVE SUSPENDED CEILINGS, EXCEPT WHERE PARTITIONS ARE INDICATED TO TERMINATE AT SUSPENDED CEILINGS. CONTINUE FRAMING AROUND DUCTS PENETRATING PARTITIONS ABOVE CEILING.  
1. SLIP-TYPE HEAD JOINTS: WHERE FRAMING EXTENDS TO OVERHEAD STRUCTURAL SUPPORTS, INSTALL TO PRODUCE JOINTS AT TOPS OF FRAMING SYSTEMS THAT PREVENT AXIAL LOADING OF FINISHED ASSEMBLIES.  
2. DOOR OPENINGS: SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAMES. INSTALL RUNNER TRACK SECTION (FOR CRIPPLE STUDS) AT HEAD AND SECURE TO JAMB STUDS.  
a. INSTALL TWO STUDS AT EACH JAMB, UNLESS OTHERWISE INDICATED.  
b. INSTALL CRIPPLE STUDS AT HEAD ADJACENT TO EACH JAMB STUD, WITH A MINIMUM 1/2 INCH CLEARANCE FROM JAMB STUD TO ALLOW FOR INSTALLATION OF CONTROL JOINT IN FINISHED ASSEMBLY.  
3. OTHER FRAMED OPENINGS: FRAME OPENINGS OTHER THAN DOOR OPENINGS THE SAME AS REQUIRED FOR DOOR OPENINGS, UNLESS OTHERWISE INDICATED. INSTALL FRAMING BELOW SILLS OF OPENINGS TO MATCH FRAMING REQUIRED ABOVE DOOR HEADS.  
4. SOUND-RATED PARTITIONS: INSTALL FRAMING TO COMPLY WITH SOUND-RATED ASSEMBLY INDICATED.  
C. INSTALLATION TOLERANCE: INSTALL EACH FRAMING MEMBER SO FASTENING SURFACES VARY NOT MORE THAN 1/8 INCH FROM THE PLAN FORMED BY FACES OF ADJACENT FRAMING.  
END OF SECTION 092216

SECTION 092900

GYPSSUM BOARD

PART 1 GENERAL

1.01 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. INTERIOR GYPSSUM BOARD

2. TILE BACKING PANELS

3. CEMENT BOARD

PART 2 PRODUCTS

2.01 INTERIOR GYPSSUM BOARD

A. GENERAL: COMPLY WITH ASTM C 36/C 36M OR ASTM C 1396/C 1396M, AS APPLICABLE TO TYPE OF GYPSSUM BOARD INDICATED AND WHICHEVER IS MORE STRINGENT.

1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

a. NATIONAL GYPSSUM COMPANY

USG CORPORATION

B. REGULAR TYPE:

1. THICKNESS: 5/8 INCH OR AS INDICATED ON DRAWINGS

C. TYPE X:

1. THICKNESS: 5/8 INCH OR AS INDICATED ON DRAWINGS

D. MOISTURE- AND MOLD-RESISTANT TYPE: WITH MOISTURE- AND MOLD-RESISTANT CORE SURFACES.

1. CORE: 5/8 INCH OR AS INDICATED ON DRAWINGS

2.02 TILE BACKING PANELS

A. WATER-RESISTANT GYPSSUM BACKING BOARD: ASTM C 630/C 630M OR ASTM C 1396/C 1396M.

1. AVAILABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

a. NATIONAL GYPSSUM COMPANY

USG CORPORATION

2. CORE: 5/8 INCH OR AS INDICATED ON DRAWINGS

B. GLASS-MAT, WATER-RESISTANT BACKING BOARD:

a. COMPLYING WITH ASTM C 1178/C 1178M

a. PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE DENS-SHIELD TILE BACKER BY GEORGIA PACIFIC GYPSSUM

2. CORE: 5/8 INCH OR AS INDICATED ON DRAWINGS

C. CEMENTITIOUS BACKER UNITS: ANSI A108.1

1. AVAILABLE PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

a. CUSTOM BUILDING PRODUCTS, WONDERBOARD

b. FINSPAN, INC., UTI-A-CRETE CONCRETE BACKER BOARD

c. USG CORPORATION, DUROCK CEMENT BOARD

2. THICKNESS: 5/8 INCH OR AS INDICATED ON DRAWINGS

2.03 TRIM ACCESSORIES

A. INTERIOR TRIM: ASTM C 1047

1. MATERIAL: GALVANIZED OR ALUMINUM-COATED STEEL SHEET, ROLLED ZINC, PLASTIC, OR PAPER-FACED GALVANIZED STEEL SHEET

2. SHAPES:

a. CORNERBEAD

b. U-BEAD: J-SHAPED, EXPOSED SHORT FLANGE DOES NOT RECEIVE JOINT COMPOUND.

c. EXPANSION (CONTROL) JOINT

2.04 JOINT TREATMENT MATERIALS

A. GENERAL: COMPLY WITH ASTM C 475/C 475M.

B. JOINT TAPE:

1. INTERIOR GYPSSUM WALLBOARD: PAPER

2. GLASS-MAT GYPSSUM SHEATHING BOARD: 10-BY-10 GLASS MESH

3. TILE BACKING PANELS: AS RECOMMENDED BY PANEL MANUFACTURER

4. CEMENT BOARD: ALKALI RESISTANT GLASS MESH TAPE

C. JOINT COMPOUND FOR INTERIOR GYPSSUM WALLBOARD: FOR EACH COAT USE FORMULATION THAT IS COMPATIBLE WITH OTHER COMPOUNDS APPLIED ON PREVIOUS OR FOR SUCCESSIVE COATS

1. PRE-FILLING: AT OPEN JOINTS, ROUNDED OR BEVELED PANEL EDGES, AND DAMAGED SURFACE AREAS, USE SETTING-TYPE TAPING COMPOUND

2. EMBEDDING AND FIRST COAT: FOR EMBEDDING TAPE AND FIRST COAT ON JOINTS, FASTENERS, AND TRIM FLANGES, USE SETTING-TYPE TAPING COMPOUND

a. USE SETTING-TYPE COMPOUND FOR INSTALLING PAPER-FACED METAL TRIM ACCESSORIES

3. FILL COAT: FOR SECOND COAT, USE SETTING-TYPE, SANDABLE TOPPING COMPOUND

4. FINISH COAT: FOR THIRD COAT, USE SETTING-TYPE, SANDABLE TOPPING COMPOUND

5. SKIM COAT: FOR FINAL COAT OF LEVEL 5 FINISH, USE SETTING-TYPE, SANDABLE TOPPING COMPOUND

D. JOINT COMPOUND FOR TILE BACKING PANELS:

1. WATER-RESISTANT GYPSSUM BACKING BOARD: USE SETTING-TYPE TAPING COMPOUND AND SETTING-TYPE, SANDABLE TOPPING COMPOUND

2. GLASS-MAT, WATER-RESISTANT BACKING PANEL: AS RECOMMENDED BY BACKING PANEL MANUFACTURER

3. CEMENTITIOUS BACKER UNITS: AS RECOMMENDED BY BACKER UNIT MANUFACTURER, LATEX PORTLAND CEMENT

2.05 AUXILIARY MATERIALS

A. GENERAL: PROVIDE AUXILIARY MATERIALS THAT COMPLY WITH REFERENCED INSTALLATION STANDARDS AND MANUFACTURERS WRITTEN RECOMMENDATIONS.

B. STEEL DRILL SCREWS: ASTM C 1002, UNLESS OTHERWISE INDICATED

1. USE SCREWS COMPLYING WITH ASTM C 954 FOR FASTENING PANELS TO STEEL MEMBERS FROM 0.035 TO 0.112 INCH THICK

2. FOR FASTENING CEMENTITIOUS BACKER UNITS, USE SCREWS OF TYPE AND SIZE RECOMMENDED BY PANEL MANUFACTURER

C. SOUND ATTENUATION BLANKETS: ASTM C 855, TYPE 1 (BLANKETS WITHOUT MEMBRANE FACING) PRODUCED BY COMBINING THERMOSETTING RESINS WITH MINERAL FIBERS MANUFACTURED FROM GLASS, SLAG WOOL, OR ROCK WOOL

1. FIRE-RESISTANCE-RATED ASSEMBLIES: COMPLY WITH MINERAL-FIBER REQUIREMENTS OF ASSEMBLY

D. ACOUSTICAL SEALANT: AS SPECIFIED IN DIVISION 07 SECTION "JOINT SEALANTS"

E. THERMAL INSULATION: AS SPECIFIED IN DIVISION 07 SECTION "THERMAL INSULATION"

F. VAPOR RETARDER: AS SPECIFIED IN DIVISION 07 SECTION "THERMAL INSULATION"

PART 3 EXECUTION

3.01 APPLYING AND FINISHING PANELS, GENERAL

A. COMPLY WITH ASTM C 940

B. EXAMINE PANELS BEFORE INSTALLATION. REJECT PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED

C. ISOLATE PERIMETER OF GYPSSUM BOARD APPLIED TO NON-LOAD-BEARING PARTITIONS AT STRUCTURAL ABUTMENTS, EXCEPT FLOORS. PROVIDE 1/4- TO 1/2-INCH WIDE SPACES AT THESE LOCATIONS, AND TRIM EDGES WITH EDGE TRIM WHERE EDGES OF PANELS ARE EXPOSED. SEAL JOINTS BETWEEN EDGES AND ABUTTING STRUCTURAL SURFACES WITH ACOUSTICAL SEALANT

3.02 APPLYING INTERIOR GYPSSUM BOARD

A. INSTALL APPLICATIONS, GYPSSUM BOARD IN THE FOLLOWING LOCATIONS:

1. REGULAR TYPE: AS INDICATED ON DRAWINGS VERTICAL SURFACES, UNLESS OTHERWISE INDICATED

2. TYPE X: AS INDICATED ON DRAWINGS WHERE REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLY VERTICAL SURFACES, UNLESS OTHERWISE INDICATED

3. MOISTURE- AND MOLD-RESISTANT TYPE: AS INDICATED ON DRAWINGS

3.03 APPLYING GYPSSUM PANELS FOR CEILINGS AND SOFFITS

A. APPLY PANELS PERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED AND LOCATED OVER SUPPORTS

1. INSTALL WITH 1/4-INCH OPEN SPACE WHERE PANELS ABUT OTHER CONSTRUCTION OR STRUCTURAL PENETRATIONS

2. FASTEN WITH CORROSION-RESISTANT SCREWS

3.04 APPLYING TILE BACKING PANELS

A. WATER-RESISTANT GYPSSUM BACKING BOARD: INSTALL AT BATHROOMS, AND WHERE INDICATED, INSTALL WITH 1/4-INCH GAP WHERE PANELS ABUT OTHER CONSTRUCTION OR PENETRATIONS

B. AREAS NOT SUBJECT TO WETTING: INSTALL REGULAR-TYPE GYPSSUM WALLBOARD PANELS TO PRODUCE A FLAT SURFACE EXCEPT AT LOCATIONS INDICATED TO RECEIVE WATER-RESISTANT PANELS, WHERE TILE BACKING PANELS ABUT OTHER TYPES OF PANELS IN SAME PLANE, SHIM SURFACES TO PRODUCE A UNIFORM PLANE ACROSS PANEL SURFACES

3.05 INSTALLING TRIM ACCESSORIES

A. GENERAL: FOR TRIM WITH BACK FLANGES INTENDED FOR FASTENERS, ATTACH TO FRAMING WITH SAME FASTENERS USED FOR PANELS. OTHERWISE, ATTACH TRIM ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS

B. CONTROL JOINTS: INSTALL CONTROL JOINTS AT LOCATIONS INDICATED ON DRAWINGS ACCORDING TO ASTM C 840 AND IN SPECIFIC LOCATIONS APPROVED BY ARCHITECT FOR VISUAL EFFECT

C. INTERIOR TRIM: INSTALL IN FOLLOWING LOCATIONS

1. CORNERBEAD: USE AT OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED

2. LC-BEAD: USE AT EXPOSED PANEL EDGES

3. L-BEAD: USE WHERE INDICATED

4. U-BEAD: USE AT EXPOSED PANEL EDGES WHERE INDICATED

3.06 FINISHING GYPSSUM BOARD

A. GENERAL: TREAT GYPSSUM BOARD JOINTS, INTERIOR ANGLES, EDGE TRIM, CONTROL JOINTS, PENETRATIONS, FASTENER HEADS, SURFACE DEFECTS, AND ELSEWHERE AS REQUIRED TO PREPARE GYPSSUM BOARD SURFACES FOR DECORATION. PROMPTLY REMOVE RESIDUAL JOINT COMPOUND FROM ADJACENT SURFACES

B. PRE-FILL OPEN JOINTS, ROUNDED OR BEVELED EDGES, AND DAMAGED SURFACE AREAS

C. APPLY JOINT TAPE OVER GYPSSUM BOARD JOINTS, EXCEPT THOSE WITH TRIM HAVING FLANGES NOT INTENDED FOR TAPE

D. GYPSSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW:

1. LEVEL 1: CEILING PLENUM AREAS, CONCEALED AREAS, AND WHERE INDICATED

2. LEVEL 2: PANELS THAT ARE SUBSTRATE FOR TILE PANELS THAT ARE SUBSTRATE FOR ACOUSTICAL TILE WHERE INDICATED ON DRAWINGS INSERT LOCATIONS

3. LEVEL 3: WHERE INDICATED ON DRAWINGS INSERT LOCATIONS

4. LEVEL 4: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED INSERT LOCATIONS

a. PRIMER AND ITS APPLICATION TO SURFACES ARE SPECIFIED IN OTHER DIVISION 09 SECTIONS

E. CEMENTITIOUS BACKER UNITS: FINISH ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS AND TCNA INSTALLATION METHOD

3.07 PROTECTION

A. PROTECT INSTALLED PRODUCTS FROM DAMAGE FROM WEATHER, CONDENSATION, DIRECT SUNLIGHT, CONSTRUCTION, AND OTHER CAUSES DURING REMAINDER OF THE CONSTRUCTION PERIOD

B. REMOVE AND REPLACE PANELS THAT ARE WET, MOISTURE DAMAGED, AND MOLD DAMAGED

1. INDICATIONS THAT PANELS ARE WET OR MOISTURE DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, DISCOLORATION, SAGGING, OR IRREGULAR SHAPE

2. INDICATIONS THAT PANELS ARE MOLD DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION

END OF SECTION 092900

SECTION 093000

TILING

PART 1 GENERAL

1.01 SUMMARY

A. THIS SECTION INCLUDES THE FOLLOWING:

1. PORCELAIN CERAMIC TILE

2. GLAZED WALL TILE

3. WATERPROOF MEMBRANE FOR THIN-SET TILE INSTALLATION

4. CRACK-SUPPRESSION MEMBRANE FOR THIN-SET TILE INSTALLATIONS

5. METAL EDGE STRIPS INSTALLED AS PART OF TILE INSTALLATIONS

1.02 SUBMITTALS

A. PRODUCT DATA: FOR EACH PRODUCT INDICATED

1.04 EXTRA MATERIALS

A. FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS, TILE AND TRIM UNITS: FURNISH QUANTITY OF FULL-SIZE UNITS EQUAL TO 5 PERCENT OF AMOUNT INSTALLED, FOR EACH TYPE, COMPOSITION, COLOR, PATTERN, AND SIZE INDICATED

PART 2 PRODUCTS

2.02 TILE PRODUCTS

A. PROVIDE TILE PRODUCTS AS SPECIFIED ON DRAWING FINISH AND MATERIAL SCHEDULE

2.03 ACCESSORY MATERIALS

A. UNREINFORCED, FLUID-APPLIED PRODUCT: LIQUID-LATEX RUBBER, WITH A VOC CONTENT OF 550L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24)

1. PRODUCTS: LATICRETE HYDRO BARRIER OR ANY OF THE FOLLOWING PRODUCTS:

a. BOIARDI PRODUCTS CORPORATION, ELASTIMAX 324 644

b. CUSTOM BUILDING PRODUCTS, LEVELQUICK WATERPROOFING AND ANTI-FRACTURE MEMBRANE

c. JAMO INC., WATERPROOF

2.04 SETTING AND GROUTING MATERIALS

A. MANUFACTURERS

1. BONSAL, W. R. COMPANY

2. BOSTIK

3. CUSTOM BUILDING PRODUCTS

4. LATICRETE INTERNATIONAL, INC.

5. MAPEI CORPORATION

6. SUMMITVILLE TILES, INC.

7. TEC SPECIALTY PRODUCTS, INC.

B. DRY-SET PORTLAND CEMENT MORTAR (THIN SET): APPROPRIATE TO TCNA APPLICATION METHOD NOTED

1. FOR WALL APPLICATIONS, PROVIDE NON-SAGGING MORTAR

C. LATEX-PORTLAND CEMENT MORTAR (THIN SET): APPROPRIATE TO TCNA APPLICATION METHOD NOTED

1. PREPACKAGED DRY-MORTAR MIX CONTAINING DRY ADDITIVE TO WHICH ONLY WATER MUST BE ADDED

2. PREPACKAGED DRY-MORTAR MIX COMBINED WITH LIQUID-LATEX ADDITIVE

3. FOR WALL APPLICATIONS, PROVIDE NON-SAGGING MORTAR

POLYMER-MODIFIED TILE SANDED GROUT: ANSI A118.1, COLOR AS INDICATED ON DRAWINGS

1. POLYMER TYPE: DRY, RE-DISPERSIBLE FORM, PREPACKAGED WITH OTHER DRY INGREDIENTS

2. POLYMER TYPE: LIQUID-LATEX FORM FOR ADDITION TO PREPACKAGED DRY-GROUT MIX

3. USE SANDED GROUT FOR JOINTS 1/8" OR GREATER IN WIDTH; USE UN-SANDED GROUT FOR JOINTS 1/8" OR LESS IN WIDTH

2.05 MISCELLANEOUS MATERIALS

A. ELASTOMERIC SEALANTS: ELASTOMERIC SEALANTS OF BASE POLYMER AND CHARACTERISTICS INDICATED THAT COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 07 SECTION "JOINT SEALANTS"

1. ONE-PART, MILDEW-RESISTANT SILICONE: ASTM C 920, TYPE S; GRADE NS, CLASS 25; USES NT, G, A, AND AS APPLICABLE TO NONPOROUS JOINT SUBSTRATES INDICATED, OR FORMULATED WITH FUNGICIDE, INTENDED FOR IN-SERVICE EXPOSURES OF HIGH HUMIDITY AND EXTREME TEMPERATURES

a. PRODUCTS:

1) DOW CORNING CORPORATION, DOWN CORNING 786

2) GE SILICONES, SANITARY 1700

3) PECORA CORPORATION, PECORA 888 SANITARY SILICONE SEALANT

4) TREMO, INC., TREMSIL 600 WHITE

2. MULTIPART, POURABLE URETHANE SEALANT FOR USE T, ASTM C 920; TYPE M, GRADE P, CLASS 25; USES T, M, A, AND AS APPLICABLE TO JOINT SUBSTRATES INDICATED, O

a. PRODUCTS:

1) BOSTIK, CHEM-CALK 550

2) MANECO INTERNATIONAL, INC., VULKEM 345

3) PECORA CORPORATION, NR-2000 UREXPAN

A. TROWELABLE UNDERLAYMENTS AND PATCHING COMPOUNDS: LATEX-MODIFIED, PORTLAND CEMENT-BASED FORMULATION PROVIDED OR APPROVED BY MANUFACTURER OF TILE SETTING MATERIALS

B. METAL TRIMS AND EDGE STRIPS: AS SPECIFIED ON THE DRAWINGS

C. GROUT SEALER: MANUFACTURER'S STANDARD SILICONE PRODUCT FOR SEALING GROUT JOINTS THAT DOES NOT CHANGE COLOR OR APPEARANCE OF GROUT

PART 3 EXECUTION

3.01 PREPARATION

A. REMOVE COATINGS, INCLUDING CURING COMPOUNDS AND OTHER SUBSTANCES THAT CONTAIN SOAP, WAX, OIL, OR SILICONE, THAT ARE INCOMPATIBLE WITH TILE-SETTING MATERIALS

B. FILL CRACKS, HOLES, AND DEPRESSIONS WITH TROWELABLE LEVELING AND PATCHING COMPOUND ACCORDING TO TILE-SETTING MATERIAL MANUFACTURERS WRITTEN INSTRUCTIONS

C. REMOVE PROTRUSIONS, BUMPS, AND RIDGES BY SANDING OR GRINDING

D. BLENDING: FOR TILE EXHIBITING COLOR VARIATIONS, USE FACTORY BLENDED TILE OR BLEND TILES AT PROJECT SITE BEFORE INSTALLING

E. FIELD-APPLIED TEMPORARY PROTECTIVE COATING: WHERE INDICATED UNDER TILE TYPE OR NEEDED TO PREVENT GROUT FROM STAINING OR ADHERING TO EXPOSED TILE SURFACES, PRE-COAT THEM WITH CONTINUOUS FILM OF TEMPORARY PROTECTIVE COATING, TAKING CARE NOT TO COAT UNEXPOSED TILE SURFACES

3.02 INSTALLATION, GENERAL

A. ANSI TILE INSTALLATION STANDARDS: COMPLY WITH PARTS OF ANSI A108 SERIES "SPECIFICATIONS FOR INSTALLATION OF CERAMIC TILE" THAT APPLY TO TYPES OF SETTING AND GROUTING MATERIALS AND TO METHODS INDICATED IN CERAMIC TILE INSTALLATION SCHEDULES

B. TCNA INSTALLATION GUIDELINES: TCNA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" COMPLY WITH TCNA INSTALLATION METHODS INDICATED IN CERAMIC TILE INSTALLATION SCHEDULES

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

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

E. JOINTING PATTERN: LAY TILE IN GRID PATTERN, UNLESS OTHERWISE INDICATED. ALIGN JOINTS WHEN ADJOINING TILES ON FLOOR, BASE, WALLS, AND TRIM ARE SAME SIZE. LAY OUT 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 INDICATED. LAY OUT TO AVOID/CANCEL TILE FACE OF LESS THAN ONE (1) INCH AT CUT TILES

F. LAY OUT TILE WAINSCOTS TO NEXT FULL TILE BEYOND DIMENSIONS INDICATED

G. EXPANSION JOINTS: LOCATE EXPANSION JOINTS AND OTHER SEALANT-FILLED JOINTS DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS, AND TILE. DO NOT SAW-CUT JOINTS AFTER INSTALLING TILES

1. LOCATE JOINTS IN TILE SURFACES DIRECTLY ABOVE JOINTS IN CONCRETE SUBSTRATES

2. PREPARE JOINTS AND APPLY SEALANTS TO COMPLY WITH REQUIREMENTS IN DIVISION 07 SECTION "JOINT SEALANTS"

H. GROUT TILE TO COMPLY WITH REQUIREMENTS OF ANSI A108.10, UNLESS OTHERWISE INDICATED

I. INSTALL WATERPROOFING TO COMPLY WITH ANSI A108.13 AND WATERPROOFING MANUFACTURERS WRITTEN INSTRUCTIONS TO PRODUCE WATERPROOF MEMBRANE OF UNIFORM THICKNESS BONDED SECURELY TO SUBSTRATE

1. DO NOT INSTALL TILE OVER WATERPROOFING UNTIL WATERPROOFING HAS CURED AND BEEN TESTED TO DETER