

COLLETON COUNTY RECREATION CENTER ADDITION AND RENOVATION



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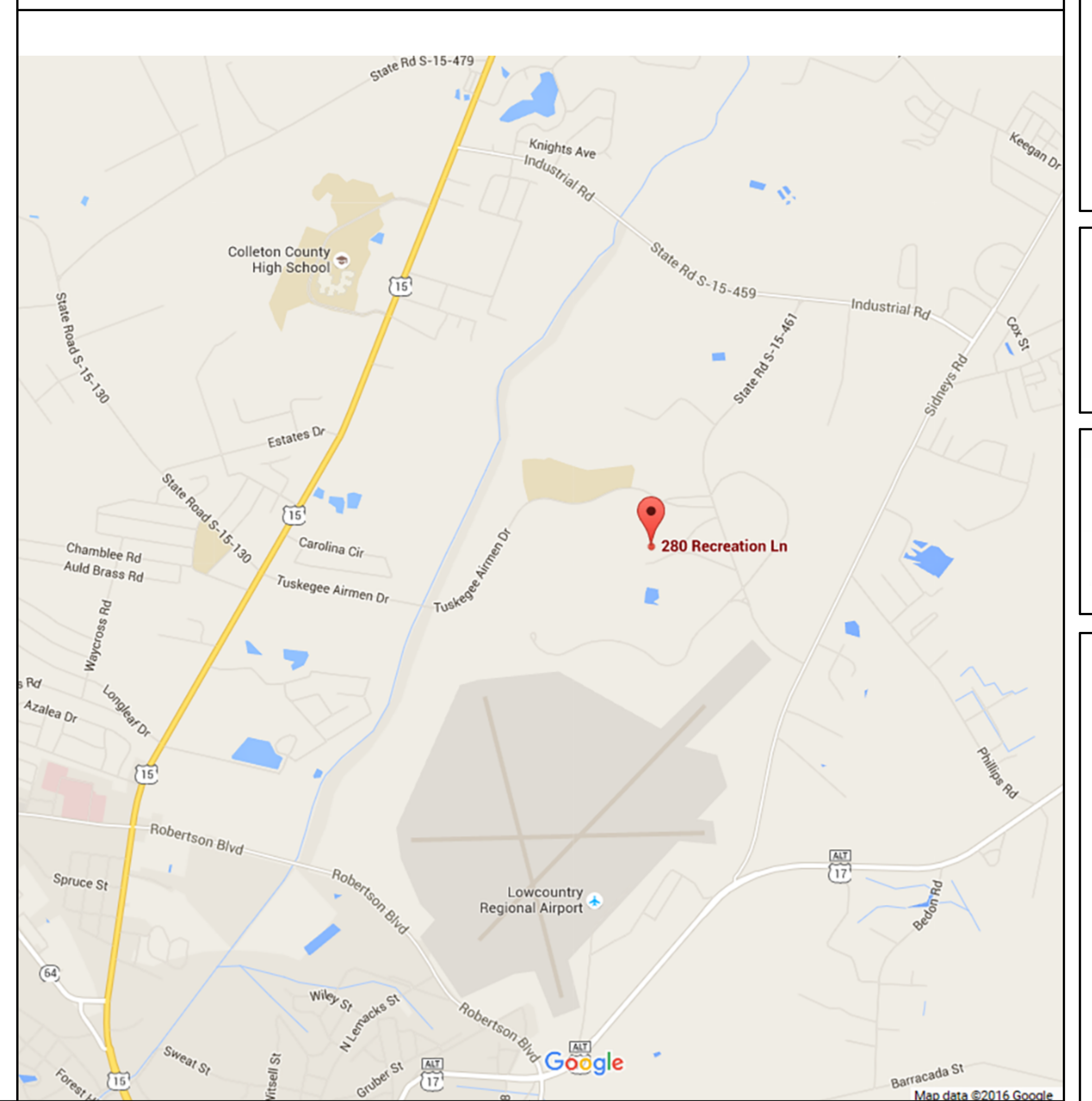
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LIST OF DRAWINGS

GENERAL	CIVIL	STRUCTURAL	ARCHITECTURAL	INTERIORS
G001 COVER G002 UL ASSEMBLIES G003 UL ASSEMBLIES G004 UL ASSEMBLIES G005 UL ASSEMBLIES G006 UL ASSEMBLIES G007 PARTITION DETAILS	C0.0 COVER SHEET C2.0 EXISTING CONDITIONS & DEMOLITION PLAN C3.0 SITE PLAN C4.0 GRADING & DRAINAGE PLAN C5.0 EROSION CONTROL PLAN C5.1 EROSION CONTROL DETAILS C6.0 UTILITY PLAN C6.1 UTILITY DETAILS	S001 GENERAL NOTES S002 BASIS OF DESIGN S101 FOUNDATION/SLAB PLAN S201 ROOF FRAMING PLAN S301 SECTIONS AND DETAILS S302 SECTIONS AND DETAILS S401 SECTIONS AND DETAILS S402 SECTIONS AND DETAILS S501 MASONRY SECTIONS AND DETAILS	A001 LIFE SAFETY PLAN A002 ARCHITECTURAL SITE PLAN A100 DEMOLITION FLOOR PLAN A200A GROUND FLOOR PLAN A200B GROUND FLOOR FURNITURE PLAN A201 ROOF PLAN A300 BUILDING ELEVATIONS A400 WALL TYPES A401 BUILDING SECTIONS A402 WALL SECTIONS A403 WALL SECTIONS A404 WALL SECTIONS A400 REFLECTED CEILING PLAN A700 TYP. FIXTURE AND ACCESS. HEIGHTS AND LEGENDS A701 ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS A702 INTERIOR ELEVATIONS A800 TYPICAL DETAILS A801 ROOF DETAILS A802 ROOF DETAILS A810 PLAN DETAILS A811 PLAN DETAILS A820 TYPICAL CEILING AND MILLWORK DETAILS A900 DOOR SCHEDULE, DOOR FRAMES, AND WINDOW TYPES	I200 FIRST FLOOR FINISH PLAN I900 FINISH SPECIFICATIONS
HVAC H000 HVAC SYMBOLS LEGEND, NOTES & SYSTEM DIAGRAMS H100 HVAC - GROUND FLOOR DEMOLITION PLAN H200 GROUND FLOOR DUCTWORK PLAN H201 HVAC ROOF NEW WORK PLAN H500 HVAC CONTROL DIAGRAMS AND SEQUENCES OF OPERATION H800 HVAC DETAILS H901 HVAC DETAILS H900 SCHEDULES	FIRE PROTECTION FF200 FIRE PROTECTION - GROUND FLOOR WORK PLAN	PLUMBING P000 PLUMBING SCHEDULES, LEGEND, & GENERAL NOTES P100 PLUMBING - GROUND FLOOR DEMOLITION WORK PLAN P200 PLUMBING - GROUND FLOOR NEW WORK PLAN - SANITARY P201 PLUMBING - ROOF NEW WORK PLAN - SANITARY P300 PLUMBING - GROUND FLOOR NEW WORK PLAN - DOMESTIC WATER P800 PLUMBING DETAILS	ELECTRICAL E000 ELECTRICAL SYMBOLS LEGEND, NOTES & ONE-LINE DIAGRAMS E001 ELECTRICAL SITE PLAN E100 ELECTRICAL GROUND FLOOR DEMOLITION PLAN E200 ELECTRICAL GROUND FLOOR POWER AND SYSTEMS PLAN E201 ELECTRICAL ROOF POWER PLAN E300 ELECTRICAL GROUND FLOOR LIGHTING PLAN E700 ENLARGED PLANS AND FIRE ALARM RISER DIAGRAM SECTIONS. E800 ELECTRICAL DETAILS E900 ELECTRICAL SCHEDULE	SPLASH PAD SP-1 SPLASH PAD COVER SHEET SP-2 EQUIPMENT VAK PAK SP-3 VAK PAK WATER CONTAINMENT TANK SP-4 VAK PAK PLUMBING EQUIPMENT TO CONTAINMENT TANK SP-5 VAK PAK ISOMETRIC PLUMBING LAYOUT SP-6 VAK PAK WATER LEVEL CONTROL AND CHEMICAL CROCKS SP-7 VAK PAK ELECTRICAL SP-8 SPLASH PAD ISOMETRIC LAYOUT SP-9 SPLASH PAD FEATURE LAYOUT SP-10 SPLASH PAD DIMENSION LAYOUT SP-11 SPLASH PAD PLUMBING LAYOUT SP-12 SPLASH PAD MAIN DRAIN PLUMBING LAYOUT SP-13 SPLASH PAD ACTIVATOR LAYOUT SP-14 SPLASH PAD DETAILS SP-15 SPLASH PAD ELECTRICAL & STRUCTURAL NOTES

LOCATION MAP



LIST OF ABBREVIATIONS

AFP ABOVE FINISH FLOOR	CJT CONSTRUCTION JOINT	FF FINISH FLOOR	JAN JANITOR	OC ON CENTER	SECT SECTION
AP ACCESS PANEL	CONT CONTINUOUS	FEC FIRE EXTINGUISHER CABINET	JS JANITOR SINK	OPN OPENING	SIM SOUND TRANSMISSION COEFFICIENT
ACU ACoustical	CONTR CONTRACTOR	FH FIRE HOSE	JT JOINT	OD OUTSIDE DIAMETER	STC SPEC SQUARE
AD ADJACENT	CJ CONTROL JOINT	FLR FLOOR	KT KITCHEN	OH OVERHEAD	SS STAINLESS STEEL
ACT ACoustical CEILING TILE	DF DAMP PROOFING	FD FLOOR DRAIN	LAB LABORATORY	PT PAINTED	STD STANDARD
AHP ACoustical WALL PANEL	DEM DEMOLISH	FOU FLOOR JOINT	LAM LAMINATED	PR PAPER TOWEL RECEPTOR	STL STEEL
A/C AIR CONDITIONING	DIA DIAMETER	FOU FOUNDATION	LAV LAVATORY	PKG PARKING	STOR STORAGE
ALT ALTERNATE	DEPT DEPARTMENT	FUT FUTURE	LVR LAYER	PRT PART	STR STRUCTURE, STRUCTURAL
ALUM ALUMINUM	DET DETAIL	GAL GALVANIZED	LDR LEADER	PL PARTITION	STL STRUCTURAL STEEL
AB ANCHOR BOLT	DIA DIAMETER	GA GAUGE	LH LEFT HAND	PL PLASTIC LAMINATE	SUSP SUSPENDED
ANOD ANODIZED	DIM DIMENSION	GEN GENERAL	LIB LIBRARY	PLG PLUMBING	SAT SUSPENDED ACOUSTICAL TILE
APPROX APPROXIMATE	DISP DISPOSAL	GC GENERAL CONTRACTOR	LT LIGHT	PWY PLYWOOD	TEL TELEPHONE
ARCH ARCHITECT, ARCHITECTURAL	DR DRAIN	GL GLASS, GLAZING	LW LIGHT WEIGHT	PRE FAB PRE FABRICATED	TEMP TEMPERATURE
AREA AREA DRAIN	DBL DOUBLE	GR GRADE, GRADING	MACH MACHINE	PT PAINT	THK THICKNESS
AUT AUTOMATIC	DN DOWN	GRS GROSS SQUARE FOOT	MCH MACHINE	PVC POLYVINYL CHLORIDE	TOW TOP OF WALL
BEAM BEARING PLATE	DS DOWNSPOUT	GWB GYPSUM WALL BOARD	MFR MANUFACTURER	PVMT PRECAST CONCRETE PAVEMENT	TYP TYPICAL
BP BEARING PLATE	DWR DRAWER	GYP GYPSUM	MFR MANUFACTURER	QTY QUANTITY	UNFN UNFINISHED
BTM BOTTOM	DWC DRAWING	GYP GYPSUM	MFR MANUFACTURER	QT QUARRY TILE	UNO UNLESS OTHERWISE NOTED
BTUM BUTYRUS	DRW DRAWING	GYP BD GYPSUM BOARD	MFR MANUFACTURER	QTB QUARRY TILE BASE	VEN VENEER
BLKG BLOCKING	DF DRINKING FOUNTAIN	HDWR HARDWARE	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
BLK BLOCK	EA EACH	HWDR HARDWOOD	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
BD BOTTOM	EAC EACH FACE	HVAC HEATING, VENTILATING & AIR CONDITIONING	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
BRK BRICK	EAS EAST	HT, HGT HEIGHT	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
BLDG BUILDING	ELEC ELECTRICAL	HEX HEXAGONAL	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
BN BULLNOSE	ELEV ELEVATION	HM HIGHWAY	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CAB CABINET	EMER EMERGENCY	HRZ HORIZONTAL	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CI CAST IRON	ENCL ENCLOSURE	ENTR ENTRANCE	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CPT CARPET(T)	EQ EQ	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CB CATCH BASIN	ENTR ENTRANCE	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
C/C CEILING	EQ EQ	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CLG HT CEILING HEIGHT	EQUI EQUIPMENT	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CL CENTER LINE	EST ESTIMATE(D)	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CER CERAMIC TILE	EXH EXHAUST	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CT CHALK BOARD	EXIST EXISTING	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CIRC CIRCUMFERENCE	EXP EXPANSION	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CO CLEAN OUT	EXPJ EXPANSION JOINT	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CLR CLEAR	F FABRIC	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
COL COLUMN	FAB FABRICATE	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CONC CONCRETE	FIG FIGURE	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CMU CONCRETE MASONRY UNIT	FIN FINISH	EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE
CONSTR CONSTRUCTION		EQ EQ	MFR MANUFACTURER	QTY QUANTITY	VER VESTIBULE

MATERIAL SYMBOLS

EARTH	BRICK	RIGID INSULATION	1 HR RATING
GYPSUM BOARD	STEEL	BATT OR LOOSE INSULATION	2 HR RATING
GRAVEL TYPE 1 (ENGINEERED FILL)	GROUT	CAVITY DRAINAGE MAT	SMOKE RATING
PRECAST CONCRETE	ROUGH WOOD BLOCKING	ALUMINUM	EXISTING BUILDING MATERIALS
CRUSHED STONE	ROUGH WOOD BLOCKING, NON-CONTINUOUS	STANDING SEAM ROOF	
CONCRETE MASONRY UNIT (CMU)	WOOD, FINISHED WOODWORK	CONCRETE	
METAL STUD PARTITION	PLYWOOD (LARGE SCALE)	TERRAZZO	

GRAPHIC SYMBOLS

A COLUMN CENTERLINE A	REVISION NO. 1	PROPERTY LINE	CASEWORK TAG
DETAIL #3 ON SHEET A201	EXISTING SPOT ELEVATION	FENCE	ACCESSORY TAG
BUILDING SECTION (NO.) or WALL SECTION (LETTER) on SHEET A101	EXISTING SPOT ELEVATION	EXISTING TREE TO REMAIN	WINDOW TAG (TYPE LETTER)
ROOM NUMBER	EXISTING SPOT ELEVATION	EXISTING TREE TO BE REMOVED	EQUIPMENT SYMBOL (NUMBER)
INTERIOR ELEVATIONS # 2 and #3 on SHEET A501	EXISTING CONTOURS	BENCHMARKS: FLOOR ELEV. or OTHER VERTICAL ELEV.	DOOR TAG
EXTERIOR ELEVATIONS #3 ON SHEET A501	FINISHED CONTOURS	KEYNOTE SYMBOL: DEMOLITION and NEW CONSTRUCTION	VIEW NAME, PLAN VIEW TITLE WITH NORTH ARROW

SET NO.

COLLETON COUNTY
RECREATION CENTER ADDITION AND RENOVATION
280 RECREATION LN., WALTERBORO SC 29488

DATE	DRAWN	CHECKED
5/30/2017	DMS	RFG
SCALE	As indicated	
SHEET TITLE	COVER	
PROJECT NUMBER	13674.00	
CC	G001	
DRAWING NUMBER		

Fire-resistance Ratings - ANSI/UL 263

Design No. U419

August 15, 2013

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5)

1. Framing Members* - Floor and Ceiling Runners — (Not shown) — An alternate to Item 1) — For use with Items 2), 4), 5) and 8), channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs — (As an alternate to Item 2), For use with Items 5B, 5C, 5F and 5I) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Floor and Ceiling Runner — (As an alternate to Item 2), For use with Items 5C or 5I) Proprietary channel shaped runners, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

2C. Framing Members* - Steel Studs — Not shown - In lieu of Item 1) — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

2D. Framing Members* - Steel Studs — In lieu of Item 2) — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

3. Floor and Ceiling Runners — (Not shown) — For use with Item 2) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC, max.

4. Framing Members* - Floor and Ceiling Runner — (Not shown) — In lieu of Item 1) — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

1B. Framing Members* - Floor and Ceiling Runner — (Not shown) — In lieu of Item 1) — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

PHILLIPS MFG CO L L C — Viper25™

1C. Framing Members* - Floor and Ceiling Runners — (Not shown) — In lieu of Item 1) — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC, max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

1D. Floor and Ceiling Runners — (Not shown) — For use with Item 2A) — Channel shaped, fabricated from min 25 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members* - Floor and Ceiling Runners — (Not shown) — As an alternate to Item 1) — For use with Items 2E, 5F or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC, max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

CLARKDIETRICH BUILDING SYSTEMS — CD ProStud

DMFCWS L L C — ProStud

MBA BUILDING SUPPLIES — ProStud

RAM SALES L L C — Ram ProStud

SOUTHEASTERN STUD & COMPONENTS INC — ProStud

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProStud

2F. Framing Members* - Steel Studs — Not shown - In lieu of Item 2) — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. Framing Members* - Steel Studs — Not shown - In lieu of Item 2) — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than the assembly height.

STUCCO BUILDING SYSTEMS — CROSTUD

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P21 or P22, or APA Standard PPR-109, manufactured with exterior glue, applied horizontally or vertically to studs. Vertical joints centered over studs, and staggered one stud space from wallboard joints. Attached to studs with flat-headed self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC in the perimeter and 12 in. OC in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min non classified as indicated under Item 5. See **Batts and Blankets (BKNV or BZ22)** Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as its Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZ22)** Categories for names of Classified companies.

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall				
Rating, Hr	Min Stud Depth, In. (Item 2)	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)	Optional
1	3-1/2	1 layer, 5/8 in. thick		
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.	
1	1-5/8	1 layer, 3/4 in. thick		1/2 in.
2	1-5/8	2 layers, 1/2 in. thick		
2	1-5/8	2 layers, 5/8 in. thick		Optional
2	3-1/2	4 layers, 3/4 in. thick	3 in.	
3	1-5/8	3 layers, 1/2 in. thick		Optional
3	1-5/8	3 layers, 5/8 in. thick		Optional
3	1-5/8	3 layers, 5/8 in. thick		Optional
4	1-5/8	4 layers, 1/2 in. thick		Optional
4	1-5/8	4 layers, 3/4 in. thick	2 in.	

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, 5GX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE CV — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC or 3/4 in. thick Types IP-X3 or ULTRACODE

4B. Fasteners — (Not shown) — For use with Items 2 and 2F) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels or 1-1/4 in. long for 24 in. thick panels or 3 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. With screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 3/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board.

5. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with min. long Type S-12 steel screws. Not for use with Items 5A and 5E.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC, perpendicular to studs. Channels secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips, RSLC-1 and RSLC-2 clips for use with 2-23/32 in. wide furring channels. RSLC-1 (2-7/32) and RSLC-2 (2-7/32) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC — Type RSLC-1, RSLC-V, RSLC-1 (2-7/32), RSLC-V (2-7/32).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item 5.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. RSLC-1 (2-7/32) clips secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSLC-V (2-7/32) clips secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips, RSLC-1 and RSLC-V clips for use with 2-9/16 in. wide furring channels. RSLC-1 (2-7/32) and RSLC-V (2-7/32) clips for use with 2-23/32 in. wide furring channels are friction fitted into clips.

7C. Joint Tape and Compound — Vinyl or caasin, dry or premixed joint compound applied in two coats to joints and screw heads of upper layers. Paper tape, nom 2 in. wide, embossed in grid pattern of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

7D. Sliding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel sliding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with cutupated metal ties attached to each stud with steel screws, not more than each sixth course of brick.

7E. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

3D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 5. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

3E. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DHA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, 5GX.

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DHA NELCO — Nelco

5H. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE CV — Type ULX

5J. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

5K. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

6. Fasteners — (Not shown) — For use with Items 2 and 2F) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels or 1-1/4 in. long for 24 in. thick panels or 3 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. With screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 3/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board.

7. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with min. long Type S-12 steel screws. Not for use with Items 5A and 5E.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC, perpendicular to studs. Channels secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips, RSLC-1 and RSLC-2 clips for use with 2-23/32 in. wide furring channels. RSLC-1 (2-7/32) and RSLC-2 (2-7/32) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC — Type RSLC-1, RSLC-V, RSLC-1 (2-7/32), RSLC-V (2-7/32).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item 5.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. RSLC-1 (2-7/32) clips secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSLC-V (2-7/32) clips secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips, RSLC-1 and RSLC-V clips for use with 2-9/16 in. wide furring channels. RSLC-1 (2-7/32) and RSLC-V (2-7/32) clips for use with 2-23/32 in. wide furring channels are friction fitted into clips.

7C. Joint Tape and Compound — Vinyl or caasin, dry or premixed joint compound applied in two coats to joints and screw heads of upper layers. Paper tape, nom 2 in. wide, embossed in grid pattern of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

7D. Sliding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel sliding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with cutupated metal ties attached to each stud with steel screws, not more than each sixth course of brick.

7E. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.

UNITED STATES GYPSUM CO — Type AS

3D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 5. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

3E. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DHA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only. Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, 5GX.

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DHA NELCO — Nelco

5H. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE CV — Type ULX

5J. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

5K. Gypsum Board* — (Not shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick, lead backed gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 5. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6) or 1-1/4 in. long double head fire (dry) steel screws spaced 16 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 6 ft long with a max thickness of 0.142 in. placed on the face of studs and attached to the stud with construction adhesive and one 1 in. long Type S-12 pan head steel screw, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201F, 201G, Grade "C".

6. Fasteners — (Not shown) — For use with Items 2 and 2F) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels or 1-1/4 in. long for 24 in. thick panels or 3 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. With screws offset 8 in. from first layer. **Three-layer systems:** First layer: 1 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board. **Four-layer systems:** First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 3/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from lower board.

7. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with min. long Type S-12 steel screws. Not for use with Items 5A and 5E.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC, perpendicular to studs. Channels secured to studs with min. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips, RSLC-1 and RSLC-2 clips for use with 2-23/32 in. wide furring channels. RSLC-1 (2-7/32) and RSLC-2 (2-7/32) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL INC — Type RSLC-1, RSLC-V, RSLC-1 (2-7/32), RSLC-V (2-7/32).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item 5.

b.