NATIONAL GUARD ARMORY REMODEL

LOCKER ROOM CONVERSION

7602 AIRPORT ROAD
WEST JORDAN, UTAH 84084

DFCM # 71184-09081480

LEGENDS

ABBREVIATIONS

ABBREVIATIONS	TERM	ABBREVIATION	TERM	ABBREVIATION	TERM
AFF	ABOVE FINISHED FLOOR	FP	FIRE PLACE	POLY.	POLYETHYLENE
ABBREV.	ABBREVIATIONS	F.O.C.	FACE OF CONCRETE	PREFAB.	PREFABRICATED
ALUM. /AL.	ALUMINUM	F.O.S.	FACE OF STUD	PRE-FIN.	PREFINISHED
ANOD.	ANODIZED	FR	FROM/ FIRE RATING	PRELIM.	PRELIMINARY
APPROX.	APPROXIMATE	FRR	FIRE RESISTING RATING	PT	PAINT
AVE.	AVENUE	FT	FEET/FOOT	Q.BED.	QUEEN BED
BALC.	BALCONY	GALV.	GALVANIZED	R	RISER
BC	BROOM CLOSET	GAL.	GALLONS	R.D.	ROFF DRAIN
BET.	BETWEEN	G.I.	GALVANIZED IRON	REF.	REFERENCE
BLDG.	BUILDING	GIS	GOOD ONE SIDE	REV.	REVERSED/REVISED
BLK.	BLOCK	GL	GRID LINE	RM.	ROOM
BOTT.	BOTTOM	GWB	GYPSUM WALL BOARD	R.W.L.	RAIN WATER LEADER
BR	BEDROOM	H.	HIGH	R/W OR ROW	RIGHT OF WAY
BRD.	BOARD	H.C.	HANDICAPPED	S	SINK
B&P	BENCH & PEGS	H.M.	HOLLOW METAL	S.B.	SIDE BOARD
B.S.	BOTH SIDES	HOR.	HORIZONTAL	SCHED.	SCHEDULE
C	CABINET	HR.	HOUR	SECT.	SECTION
CB	CATCH BASIN	HT.	HEIGHT	S.F.	SQUARE FEET
CEM.	CEMENT	H.S.S.	HOLLOW STEEL SECTION (TUBULAR STEEL SECTION)	SH.	SHOWER
C.I.P.	CAST IN PLACE	ID	INTERIOR DESIGN	SHT.	SHEET
CLG.	CEILING	ID	INSIDE DIAMETER	SL.	SLOPE
CL	CENTER LINE	INC.	INCLUDING	ST	STAIN
CLOS.	CLOSET	INSUL	INSULATION/INSULATED	STL.	STEEL
CMU	CONCRETE MASONRY UNIT	INT	INTERIOR	SIM.	SIMILAR
CONC.	CONCRETE	JET	JETTED TUB	SPECS	SPECIFICATIONS
CONT.	CONTINUOUS	KBED	KING BED	SPECD.	SPECIFIED
CONST.	CONSTRUCTION	LIN	LINEAR	SQ.	SQUARE
COL.	COLUMN	LT. WT.	LIGHTWEIGHT	ST.	STOVE, STAINLESS
CORR.	CORRIDOR	MAX.	MAXIMUM	STC	SOUND TRANSMISSION COEFFICENT
C/W	COMPLETE WITH	MECH.	MECHANICAL	STL.	STEEL
DBED	DOUBLE BED	MEZZ.	MEZZANINE	STOR.	STORAGE
DET.	DETAIL	MGR.	MANAGER	STRUCT.	STRUCTURAL
DIM.	DIMENSION	MDF	MEDIUM DENSITY FIBERBOARD	SUSP.	SUSPENDED
DN	DOWN	MIN.	MINIMUM	T	TREAD
DW	DISHWASHER	MISC.	MISCELLANEOUS	T&G	TONGUE AND GROOVE
DWG.	DRAWING	MTD.	MOUNTED	TBED	TWIN BED
EIFS	EXTERIOR INSULATION & FINISH SYSTEMS	MTL.	METAL	TEL.	TELEPHONE
ELEV.	ELEVATOR	NIC	NOT IN CONTRACT	TEMP.	TEMPERATURE
EL.	ELEVATION	NTS	NOT TO SCALE	T/O	TOP OF
ELECT.	ELECTRICAL	NO. OR #	NUMBER	T.O.S.	TOP OF SLAB
EQ.	EQUAL	O.C.	ON CENTER	T.S.	TUBE SECTION
EXIST.	EXISTING	O.D.	OUTSIDE DIAMETER	T.V.	TELEVISION
EXP.	EXPANDED/EXPANSION	O.S.	OWNER STORAGE	TYP.	TYPICAL
EXT.	EXTERIOR	O.S.F.	OUTSIDE FACE OF	ULC	UNDERWRITERS' LABORATORIES OF CANADA
F	FRIDGE	P	PANTRY	U/S	UNDERSIDE OF
FFE	FINISHED FLOOR ELEVATION	P.K.	PULLMAN KITCHEN	V.B.	VAPOUR BARRIER
FLR.	FLOOR	P.LAM.	PLASTIC LAMINATE	VEST.	VESTIBULE
FD	FLOOR DRAIN	PLUMB.	PLUMBING	W/	WITH
FIN.	FINISH/FINISHED	PLYWD.	PLYWOOD	W.B.	WET BAR
F.O.	FACE OF			WR	WASHROOM
				W.C.	WATER CLOSET
				W.C.	WINE COOLER
				WD.	WOOD
				W/D	WASHER/DRYER
				WP	WORK POINT

SYMBOLS

EXISTING CONF. ROOM ROM E426	ROOM NAME AND NUMBER
5:12	ROOF SLOPE
EL.	FINISHED FLOOR ELEVATION
9'-0"	CEILING HEIGHT
MB	MILLWORK ITEM
E427A	DOOR NUMBER
FP	FIXTURE
W0	WALL TYPE REFERENCE
W25	WINDOW NUMBER
2	REFERENCE NOTES
2	DEMOLITION NOTES
D	GRID LINE
A3.02 F DETAIL NUMBER / SHEET NUMBER WHERE SHOWN	DETAIL
2 A3.02 SECTION NUMBER / SHEET NUMBER WHERE SHOWN	BUILDING SECTION
2 A3.02 SECTION NUMBER / SHEET NUMBER WHERE SHOWN	WALL/PARTIAL SECTION
2 A3.02 ELEVATION NUMBER / SHEET NUMBER WHERE SHOWN	BUILDING ELEVATION
82.00'	BUILDING LEVEL ELEVATION
A B C D 1 A6.02 ELEVATION VIEW / ROOM ELEVATION NUMBERS / SHEET NUMBER WHERE SHOWN	INTERIOR ELEVATION
	ACCESSIBLE UNIT
	HEARING IMPAIRED UNIT
	HEAT TRACE
20.00'	FLOOR ELEVATION

CODE ANALYSIS

FIRE SPRINKLERS:
REMODELED SPACES TO REMAIN FULLY SPRINKLED AS REQUIRED BY FIRE CODE

CORRIDOR WIDTHS:
CORRIDOR WIDTHS REMAIN UNCHANGED. EXISTING WIDTH = 80"
MAXIMUM OCCUPANT LOAD IN ANY CORRIDOR AFFECTED BY THE NEW ROOM LAYOUT CHANGES: 207

207 OCC X .15 INCHES/OCC = 31.05 INCH MINIMUM

NOTES:

1. CODE REVIEW FOR OCCUPANT LOADS WERE COMPLETED ON THE PORTIONS OF THE BUILDING THAT ARE AFFECTED BY THE NEW DESIGN, (REFER TO PLAN FOR SPECIFIC OCCUPANT LOAD LOCATIONS). ALSO NOTE OCCUPANT LOAD UNDER NEW DESING HAS DECREASED FROM EXISTING LOAD.
2. NO ADDITIONAL S.F. WAS ADDED TO THE BUILDING FOOTPRINT
3. BUILDING FUNCTION REMAINED UNCHANGED (CLASSROOMS ADDED)
4. BUILDING FULLY SPRINKLED, HEAD LOCATIONS TO BE MODIFIED AS REQUIRED FOR NEW DESIGN LAYOUT
5. ALL NEW DOORS OPENING INTO EXISTING CORRIDOR WILL BE 20 MIN. RATED; FRAMES TO MATCH

NO CHANGES MADE TO EXISTING STRUCTURE AFFECTING THE ORIGINAL CODE INFO BELOW

ORIGINAL BUILDING CODE REVIEW CRITERIA

OCCUPANCY GROUP(S)	A-2-1	B-2
TYPE(S) OF CONSTRUCTION	II-1 HR	II-N
GROSS SQUARE FOOTAGE	8,100	67,575
ALLOWABLE SQUARE FOOTAGE	13,500	12,000
ALLOWABLE INCREASES:		
LOCATION ON PROPERTY	0	100%
FIRE SPRINKLERS	300%	300%
TOTAL ALLOWABLE SQUARE FOOTAGE	40,500	72,000
MIXED OCCUPANCY RATIO	N/A	
HEIGHT OF BUILDING	26'-0"	
NUMBER OF STORIES	1 STORY	

OCCUPANT LOAD ANALYSIS

IBI GROUP

Utah National Guard Armory-West Jordan

Project Description: Interior Remodel

Project Location: 7602 Airport Road, West Jordan, Utah 84084
Project Number: IBI #25946, DFCM #:71184-09081480
Contractor: To be Determined

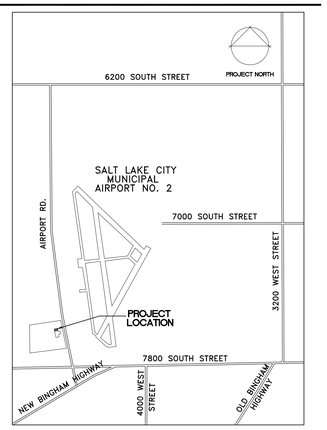
Room Number (Existing)	Existing Occupant Load	Room Numbers (New Design)	New Occupant Load
E400	50	**E400**	**50**
E401	2	**E401**	**2**
E401A	1	**E401A**	**1**
E407	47	**407**	**5**
		407A	**23**
405	1	**405**	**2**
406	1	**406**	**2**
410	3	**410**	**3**
411	4	**411**	**4**
412	21	**412**	**21**
414	19	**411A**	**3**
		414	**6**
		414A	**1**
415	3	**415**	**3**
418	47	**418**	**5**
		418A	**23**
E420	50	**E420**	**50**
421	100	**421**	**72**
		425	**11**
		428	**2**
		429	**2**
		430	**18**
		431	**18**
E426	86	**E426**	**86**
427	1	**427**	**3**
TOTAL (Occupants)	436	**TOTAL (Occupants)**	**416**

SHEET INDEX

ARCHITECTURE
G-001 COVER SHEET
G-002 SPECIFICATIONS
A-101 FLOOR PLAN
A-102 REFLECTED CEILING PLAN
A-501 DETAILS

MECHANICAL AND ELECTRICAL
EM-001 SYMBOLS AND LEGENDS
M-101 MECHANICAL REMODEL PLAN
E-101 ELECTRICAL POWER PLAN
E-102 ELECTRICAL LIGHTING PLAN
E-601 ELECTRICAL PANEL SCHEDULES

VICINITY MAP (N.T.S.)



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Project Title
UTAH NATIONAL GUARD ARMORY INTERIOR REMODEL
7602 AIRPORT ROAD, WEST JORDAN, UTAH

Sheet Title
COVER SHEET
CODE ANALYSIS
SHEET SET INDEX

Scale: N.T.S.	Date: 20 MAY, 2009
Drawn: C.S.	Checked: J.G.
Cad File: G001-COVERSHEET.DWG	Sheet No. G-001
Project No. IBI-25946	

PLOTTED DATE: Thursday, 21 May,2009 - 7:52am

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SECTION 05400

COLD FORMED STEEL FRAMING

PART 1 GENERAL

1.1 SYSTEM DESCRIPTION

Design, construct and install non-structural cold formed framing in conformance with applicable building codes and with AISA Standards for Cold-Formed Steel Framing. The design is to provide for movement of components without damage, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

1.2 SUBMITTALS (Submittals shall be for informational purposes only.)

Provide manufacturer's standard catalog data for specified products demonstrating compliance with referenced standards. Describe method for securing studs and other members to tracks and for bolted, welded and clipped framing connections. Provide manufacturer's printed installation instructions.

1.3 QUALIFICATIONS

Installer shall be experienced in performing work of this section with a minimum of three years documented experience in the installation of work similar to that required for this project.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS (Provide all steel framing from a single manufacturer)

Nuconsteel, Dietrich Metal Framing, Allied Studco, AllSteel Products, Inc., United Metal Products, Inc.

2.2 FRAMING MATERIALS

Non-load bearing (non-structural) cold-formed steel members shall be 25 gauge and shall have a minimum protective coating equal to G-40 galvanized finish and shall conform to ASTM C-645. Provide wall framing materials, such as studs, tracks, bracing, clip angles, straps, headers and other related accessories. Fastening shall be accomplished by screws, power actuated fasteners, clinching, or a combination of those. The type, size, number, and spacing of fasteners shall be as required by the approved connection detail. Screws shall penetrate the last ply in the connection, including gussets as applicable and with at least three threads visible beyond the last ply.

PART 3 EXECUTION

3.1 INSTALLATION

Prepare attachment surfaces so that they are plum, level, and in proper alignment for accepting cold-formed structural framing system. Set framing system plumb, square, aligned, without twist at correct elevation. Members shall be level, and true to line of 1/8 inch in 10 feet. Fabricate walls to a maximum out-of-square tolerance of 1/8 inch.

END OF SECTION

SECTION 08110

STEEL DOORS AND FRAMES TITLE

PART 1 GENERAL

1.1 SUBMITTALS (Submittals shall be for informational purposes only.)

Submit manufacturer's data sheets on each product to be used, including installation methods and manufacturer's certification that products comply with referenced standards.

1.2 QUALITY ASSURANCE

Doors and frames shall conform to the requirements of ANSI A250.8-1998 (SDI-100) and other specifications herein named. Fire Rated Doors and Frames shall be labeled by UL, WH, or other agency acceptable to the authorities having jurisdiction.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

1. Amweld Building Products, LLC.
2. Ceco Door Products.
3. Steelcraft.

2.2 MATERIALS

Doors, frames, frame anchors, and hardware reinforcing material shall comply with ANSI/SDI A250.8. Hardware reinforcing on doors and frames shall comply with ANSI/SDI A250.6. The physical performance levels shall be in accordance with ANSI/SDI A250.4. All steels used to manufacturer frames, anchors, and accessories shall meet the requirements of cold rolled steel and conform to ASTM A1008 and A568.

2.3 FRAMES

Provide Levels and Models in accordance with ANSI/SDI A250. The minimum steel frame thickness for Level 1 Standard duty interior door frames shall be 0.042 inch. Provide frames, other than slip-on drywall type with a minimum of three anchors per jamb suitable for the adjoining wall construction. Provide anchors of not less than 0.042 inch (1.0 mm) in thickness or 0.167 inch (4.2 mm) diameter wire. Slip-on drywall frame anchors shall be as provided by the manufacturer to assure performance specified. For existing masonry wall conditions that do not allow for the use of a floor anchor, an additional jamb anchor shall be provided. Prepare all frames for all mortise template hardware and reinforced only for surface mounted hardware. Drilling and/or tapping shall be completed by others. Minimum hardware reinforcing gages shall comply with Table 4 of ANSI/SDI A250.8.

2.4 DOORS

Solid core wood doors are to match existing doors and shall be a minimum of 1-3/4 inches. Provide vision lites in accordance with ANSI/SDI A250.8.

2.5 FABRICATION

Fabricate frames in accordance with ANSI/SDI A250.8. All surfaces of the frame exposed to view shall receive a factory applied coat of rust inhibiting primer, either air-dried or baked-on. The finish shall meet the requirements for acceptance stated in ANSI/SDI A250.10

PART 3 EXECUTION

3.1 INSTALLATION

Install frames plumb, level, rigid, and in true alignment in accordance with ANSI A250.11 and DHI A115.1G. Install fire rated doors and frames in accordance with NFPA 80.

END OF SECTION

SECTION 09260

GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.1 PERFORMANCE REQUIREMENTS

Provide materials and construction identical to those tested in fire-endurance rated assemblies by an independent testing agency acceptable to the authorities having jurisdiction. The material and construction shall comply with ASTM E 119 or UL 263.

1.2 SUBMITTALS

Provide manufacturer's data sheets on each product to be used, including preparation instructions and recommendations, storage and handling requirements and recommendations, and installation methods.

1.3 QUALITY ASSURANCE

Company specializing in performing Work shall have a minimum of three years experience.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Georgia Pacific, US Gypsum Corp., National Gypsum.

2.2 INTERIOR GYPSUM MATERIALS

Type X Fire Rated Gypsum Board complying with ASTM C 1396 and ASTM C 36. 5/8 inch thickness, 48 inches wide, and in the longest length available.

2.3 GYPSUM JOINT TREATMENT AND FINISH PRODUCTS

Joint Treatment Tape shall comply with ASTM C 475 and GA-216. Joint Compound shall be all purpose white vinyl type pre-mixed compound complying with ASTM C 475.

2.4 ACCESSORY MATERIALS

Corner Bead shall be formed galvanized steel angle, min. base steel 0.014 in. thick, and complying with ASTM C 1047. Screws shall comply with ASTM C 954 or ASTM C 1002 or both with heads, threads, points, and finish as recommended by panel manufacturer. Insulation shall comply with ASTM C 665, Type I, mineral fiber (either glass, rock, or slag) insulation blankets without membrane facing.

PART 3 EXECUTION

3.1 PREPARATION

Clean and prepare surfaces thoroughly prior to installation using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.2 INSTALLATION

Apply and maintain conditions during installation in accordance with GA-216 and GA-238. Tape, fill, sand and finish joints in accordance with ASTM C840 and GA-214 for Level 5 gypsum board finishes.

END OF SECTION

SECTION 09910

PAINT

PART 1 GENERAL

1.1 SUBMITTALS (Submittals shall be for informational purposes only.)

Provide product data on all products to be used, with the manufacturer's name, product name and/or catalog number, and general product category. Provide maintenance data on cleaning, touch-up, and repair of painted and coated surfaces.

1.2 QUALITY ASSURANCE

All primary products specified in this section will be supplied by a single manufacturer with a minimum of ten (10) years experience. All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

Benjamin Moore & Co, Kwall Paints, PP&G, Pratt & Lambert.

2.2 MATERIALS - GENERAL

Volatile Organic Compound (VOC) Content: Provide coatings that comply with the most stringent requirements specified in 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.

2.3 MIXING AND TINTING

Except where specifically noted in this section, all paint shall be ready-mixed and pre-tinted. Agitate all paint prior to and during application to ensure uniform color, gloss, and consistency. Where paint is to be sprayed, thin according to manufacturer's current guidelines.

2.4 INTERIOR PRIMERS - NEW CONSTRUCTION

Gypsum Board: Latex: One (1) Coat - All Purpose 100% Acrylic Primer (MPI Listed Product Categories 6, 17, 39 and 137).

2.5 INTERIOR PRIMERS - PREVIOUSLY PAINTED SURFACES

Previously Painted Masonry: Latex: One (1) Coat - Fresh Start All Purpose 100% Acrylic Primer #023 (MPI Listed Product Categories 6, 17, 39 and 137).

2.6 INTERIOR FINISH COATS

Satin/Semi-Gloss Finish: Latex: Two (2) Coats - Premium Interior Satin Finish

PART 3 EXECUTION

3.1 PREPARATION

Clean surfaces thoroughly prior to coating application. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance. Remove or protect adjacent hardware, electrical equipment plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings. Move or protect equipment and fixtures adjacent to surfaces indicated to receive coatings to allow application of coatings. Protect adjacent surfaces not indicated to receive coatings.

3.2 APPLICATION

Apply each coat to uniform coating thickness in accordance with manufacturer's instructions, not exceeding manufacturer's specified maximum spread rate for indicated surface; thins, brush marks, roller marks, orange-peel, or other application imperfections are not permitted. Allow manufacturer's specified drying time, and ensure correct coating adhesion, for each coat before applying next coat.

END OF SECTION

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7602 AIRPORT ROAD, WEST JORDAN, UTAH

Sheet Title

SPECIFICATIONS

Scale: N.T.S.	Date: 20 MAY, 2009
Drawn: T.C.	Checked: J.G.
Cad File: G002-SPEC_1.DWG	Sheet No. G-002
Project No.: IBI-25946	

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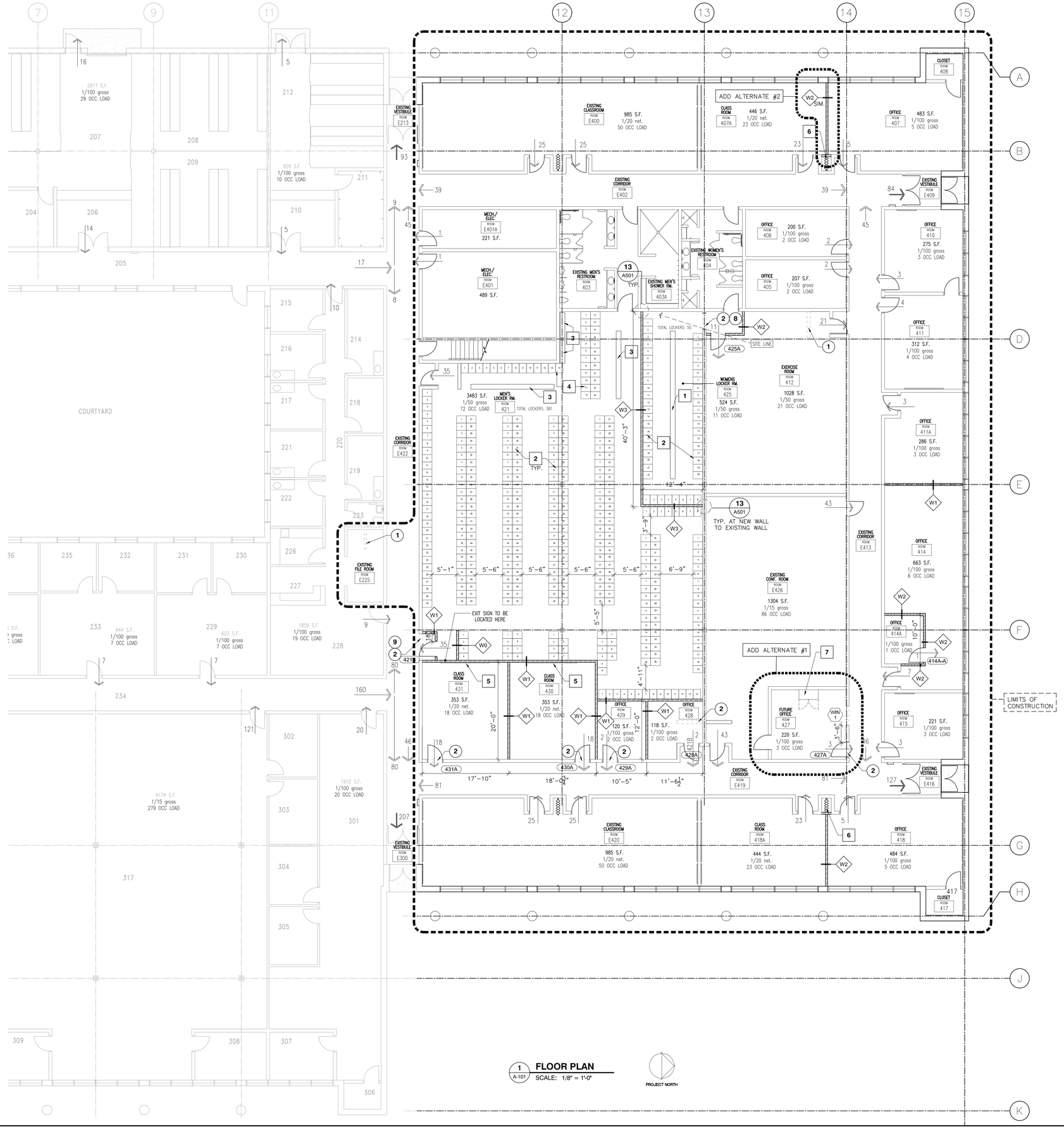

1 A-101 **FLOOR PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. EXISTING FIRE SPRINKLER SYSTEM HEAD LOCATIONS TO BE MODIFIED TO MEET THE CITY OF WEST JORDAN'S REQUIRED FIRE SPRINKLER HEAD LOCATIONS.
2. UNLESS OTHERWISE NOTED , ALL WALLS ARE EXISTING & SHALL REMAIN UNDISTURBED.
3. UNLESS OTHERWISE NOTED ALL DOORS & FRAMES TO REMAIN UNDISTURBED.
4. CONTRACTOR TO REPAIR AND/OR REPLACE ANY ITEMS IN OR ON THE BUILDING THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING THE CONSTRUCTION PROCESS

ADD ALTERNATE NOTES

#1. PROVIDE COST TO UPDATE THIS ROOM TO AN OFFICE AS SHOWN INCLUDING THE ADDITION OF A WINDOW, DOOR & A CABINET.

#2. ADD WALL PARTITIONS IN LOCATION SHOWN, AS SHOWN. INCLUDE COST TO ADD ELECTRICAL OUTLET IN WALL & REPLACEMENT OF CEILING TILES AFFECTED BY NEW WALL.

REFRENCE NOTES

1. RELOCATED & INSTALLED WOOD BENCH FROM MENS LOCKER ROOM
2. EXISTING 18" W X 24" D X 6' TALL LOCKERS RELOCATED BY CONTRACTOR TO LOCATIONS SHOWN.
3. EXISTING WOOD BENCH TO REMAIN UNDISTURBED
4. EXISTING BANK OF LOCKERS TO REMAIN UNDISTURBED
5. NEW 4' X 10' WHITE BD. (TO BE INSTALLED AT LOCATION DETERMINED BY CLIENT) PROVIDE BACKING IN NEW WALL FOR WHITE BD. INSTALLATION
6. EXISTING ACCORDION DOOR TO BE ENCAPSULATED IN WALL CAVITY
7. PRE-BUILT CABINET INSTALLED AT LOCATION SHOWN TO ACCOMMODATE EXISTING A/V EQUIPMENT
8. INSTALL HOLLOW METAL DOOR FRAME TYPE 3 AT SAWCUT OPENING; SOLID GROUT FRAME IN PLACE
9. INSTALL HOLLOW METAL DOOR FRAME TYPE 4 AT SAWCUT OPENING; SOLID GROUT FRAME IN PLACE

DEMOLITION NOTES

1. EXISTING CMU WALL TO BE REMOVED; PATCH FLOOR & ADJACENT WALL AS REQUIRED AFTER REMOVAL
2. SAWCUT EXISTING CMU BLOCK WALL TO ACCEPT HOLLOW METAL FRAME: REFER TO DOOR AND WINDOW TYPES

LEGEND

XX — OCCUPANT LOAD

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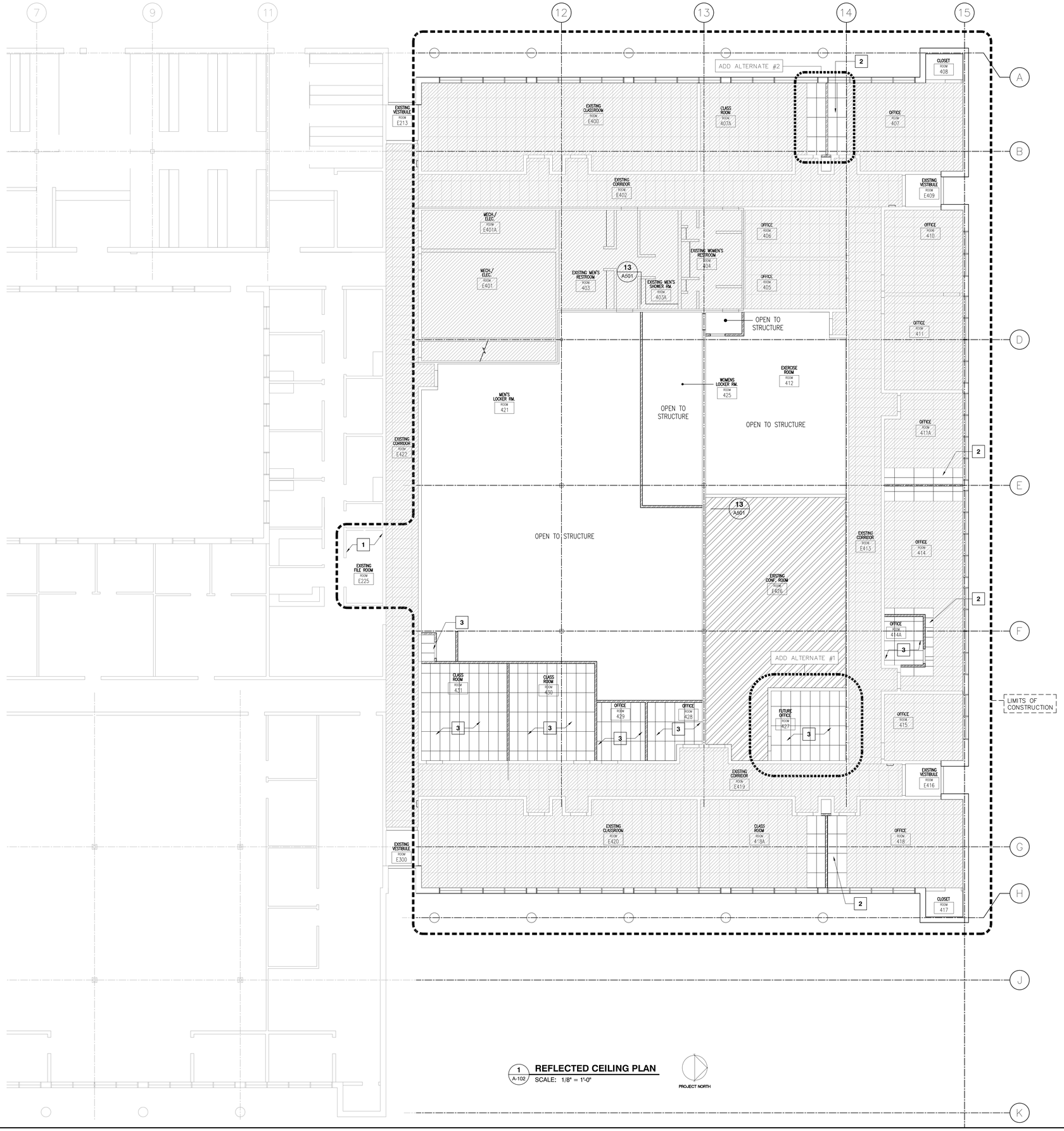
Scale: 1/8" = 1'-0"	Date: 20 MAY, 2009
Drawn: C.S.	Checked: J.G.
Cad File: A101.DWG	Sheet No. A-101
Project No. IBI-25946	

PLOTTED DATE: Thursday, 21 May 2009 - 7:04am

ARCH E1 - ADT 2007



1 A-102 **REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. EXISTING FIRE SPRINKLER SYSTEM HEAD LOCATIONS TO BE MODIFIED TO MEET THE CITY OF WEST JORDAN'S REQUIRED FIRE SPRINKLER HEAD LOCATIONS.
2. REFER TO SHEET A101 FOR ADD ALTERNATE INFORMATION
3. REFER TO 14/A501 FOR CEILING HEIGHT INFORMATION

REFERENCE NOTES

1. CEILING TO REMAIN UNDISTURBED IN THIS AREA
2. MODIFIED CEILING GRID TO ACCOMMODATE NEW WALL RE: FLOOR PLAN & DETAILS FOR WALL INFO
3. NEW CEILING TILE & SUSPENDED SYSTEM

LEGEND

NEW CEILING GRID SYSTEM AND TILE REFER TO DETAILS ON SHEET A501

EXISTING CEILING TILE AND GRID SYSTEM, OR LACK THERE OF TO REMAIN UNCHANGED

EXISTING CEILING TILE AND GRID SYSTEM TO REMAIN. EXISTING MECHANICAL DUCT, DIFFUSERS & RETURN AIR GRILLES, CURRENTLY LOCATED ABOVE CEILING SYSTEM, TO BE BROUGHT DOWN FLUSH AND INCORPORATED INTO EXISTING CEILING

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Issues

No.	Date	Apprd.	Description

No.	Date	Apprd.	Description

Revision

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Project Title

UTAH NATIONAL GUARD ARMORY INTERIOR REMODEL

7602 AIRPORT ROAD, WEST JORDAN, UTAH

Sheet Title

REFLECTED CEILING PLAN

Scale 1/8" = 1'-0"	Date 20 MAY, 2009
Drawn C.S.	Checked J.G.
Cad File A102.DWG	Sheet No. A-102
Project No. IBI-25946	

PLOTTED DATE: Thursday, 21 May 2009 - 7:55am

ARCH E1 - ADT 2007

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	MILLWORK	NOTES
E213	EXST. VESTIBULE	SPACE TO REMAIN UNCHANGED								
E225	EXST. FILE RM.	–	–	–	–	–	W2	–	–	
E300	EXST. VESTIBULE	SPACES TO REMAIN UNCHANGED								
E400	EXST. CLASSROOM									
E401	EXST. MECH/ELEC.									
E401A	EXST. MECH/ELEC.									
E402	EXST. CORRIDOR									
403	EXST. MENS RM.									
403A	EXST. MENS SHW.									
404	EXST. WOM. SHW.									
405	OFFICE	F2	–	W3	W3	W3	W3	C2	–	
406	OFFICE	F2	–	W3	W3	W3	W3	C2	–	
407	OFFICE	F3	B1	–	–	W1	–	C3	–	
407A	CLASS ROOM	F3	B1	W1	–	–	–	C3	–	
E409	EXST. VESTIBULE	SPACES TO REMAIN UNCHANGED								
410	OFFICE									
411	OFFICE									
411A	OFFICE	F3	B1	–	W1	–	–	C3	–	
412	EXERCISE ROOM	F5/F4	B1	–	–	–	W1	C4	–	
413	EXST. CORRIDOR	–	–	–	–	W2	–	C2	–	
414	OFFICE	F2	B1	W1	–	–	W1	C3	–	
414A	OFFICE	F2	B1	W1	W1	W1	W1	C1	–	
415	OFFICE	SPACES TO REMAIN UNCHANGED								
E416	EXST. VESTIBULE									
418	OFFICE	F3	B1	–	–	W1	–	C3	–	
418A	CLASS ROOM	F3	B1	W1	–	–	–	C3	–	
E419	EXST. CORRIDOR	F3	–	–	–	–	W2	C2	–	
E420	EXST. CLASSROOM	SPACE TO REMAIN UNCHANGED							–	
421	MEN'S LOCKER	F5	B1	W1	W1	–	–	C4	–	
E422	EXST. CORRIDOR	F3	B1	W2	–	–	–	C2	–	ADD ALTERNATE #1
425	WOMEN'S LOCKER	F5	B1	W2	W1	W1	–	C4	–	
E426	CONF. ROOM	F3	–	–	–	–	–	C5	–	
427	OFFICE	F2	–	W2	–	–	–	C1	M1	
428	OFFICE	F2	B1	W1	–	W1	W1	C1	–	
429	OFFICE	F2	B1	W1	–	W1	W1	C1	–	
430	CLASS ROOM	F2	B1	W1	–	W1	W1	C1	–	
431	CLASS ROOM	F2	B1	W1	–	W1	W1	C1	–	

NOTE: REPAIR AND REPLACE EXISTING BUILDING COMPONENTS DAMAGED BY CONSTRUCTINO ACTIVITIES

FLOOR

F1 PATCH DAMAGED FLOOR FROM DEMOLITION

F2 NEW CARPET TILES TO MATCH EXISTING

F3 EXISTING FLOOR TILES TO REMAIN

F4 RUBBER SPORTS MAT (TILES) INSTALLED ON CONCRETE FLOOR – ALLOW FOR 300 S.F. OF TILES

F5 NEW CARPET TILES TO MATCH EXISTING

BASE

B1 4" RUBBER BASE (ROPPE OR EQ.)

CEILING

C1 NEW CEILING TILES TO MATCH EXISTING

C2 EXISTING CEILING TO REMAIN

C3 EXISTING CEILING TO REMAIN; REPAIR AND REPLACE CEILING SYSTEM AND TILES AS REQUIRED FOR NEW WALL.

C4 OPEN TO STRUCTURE

C5 EXISTING CEILING TO BE MODIFIED AS REQUIRED TO MEET MECHANICAL DIFFUSER REQUIREMENTS

WALL

W1 NEW WALL TO BE PAINTED

W2 PATCH REPAIR AND PAINT AREA OF DEMOLITINO AS REQUIRED FOR FINISHED APPEARANCE

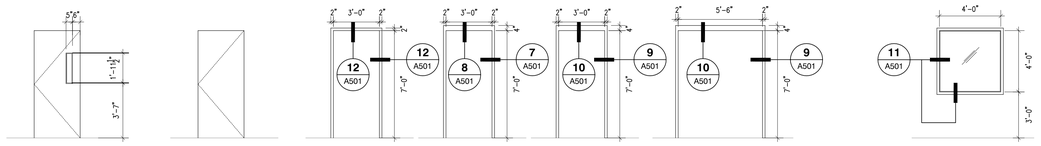
W3 PATCH EXISTING WALL AS REQUIRED AND PAINT

MILLWORK

M1 PRE-MANUFACTERED SOLID WOOD CABINET 36"W X 16"D X 72"H TO HOUSE EXISTING A/V EQUIPMENT

DOOR SCHEDULE

DOOR NO.	INT EXT	DOOR TYPE	DOOR SIZE WIDTH	HEIGHT	THICK	FIRE RATING	GL	DOOR FINISH MAT	INT	EXT	DETAILS HEAD	JAMB	THRESH	FRAME MAT	INT	EXT	FIRE R.	TYP.	HARDWARE GROUP	REMARKS
414A–A	INT	B	3–0	7–0	1 3/4"	NR	–	HM	PT	PT	12/A501	12/A501	–	H.M.	PT.	PT.	NR	F1		HARDWARE GROUP 1 HARDWARE GROUP 1
427A	INT	A	3–0	7–0	1 3/4"	20 MIN.	FR	WD	ST	ST	8/A501	7/A501	–	H.M.	PT.	PT.	20 MIN.	F2		HARDWARE GROUP 2 HARDWARE GROUP 1 — ADD ALTERNATE #1
428A	INT	A	3–0	7–0	1 3/4"	20 MIN.	FR	WD	PT	PT	EXISTING DOOR FRAME TO REMAIN								USE EXISTING	VERIFY SMOKE SEAL IS INSTALLED
429A	INT	A	3–0	7–0	1 3/4"	20 MIN.	FR	WD	PT	PT	8/A501	7/A501	–	H.M.	PT.	PT.	20 MIN.	F2		
430A	INT	A	3–0	7–0	1 3/4"	20 MIN.	FR	WD	PT	PT	8/A501	7/A501	–	H.M.	PT.	PT.	20 MIN.	F2		
431A	INT	A	3–0	7–0	1 3/4"	20 MIN.	FR	WD	PT	PT	8/A501	7/A501	–	H.M.	PT.	PT.	20 MIN.	F2		
421B	EXISTING DOOR AND HARDWARE TO BE RELOCATED TO NEW LOCATION IN LOCKER ROOM										8/A501	7/A501	–	H.M.	PT.	PT.	20 MIN.	F2		HARDWARE GROUP 3 HARDWARE GROUP 1
425A	INT	B	3–0	7–0	1 3/4"	NR	–	HM	PT	PT	12/A501	12/A501	–	H.M.	PT.	PT.	NR	F1		



DOOR TYPE: A — 20 MIN. FIRE RATING, SOLID CORE WOOD, FIRE RATED GLAZING

DOOR TYPE: B — H.M.

FRAME TYPE: F1 — H.M., SOLID GROUT FRAME

FRAME TYPE: F2 — H.M., SOLID GROUT FRAME

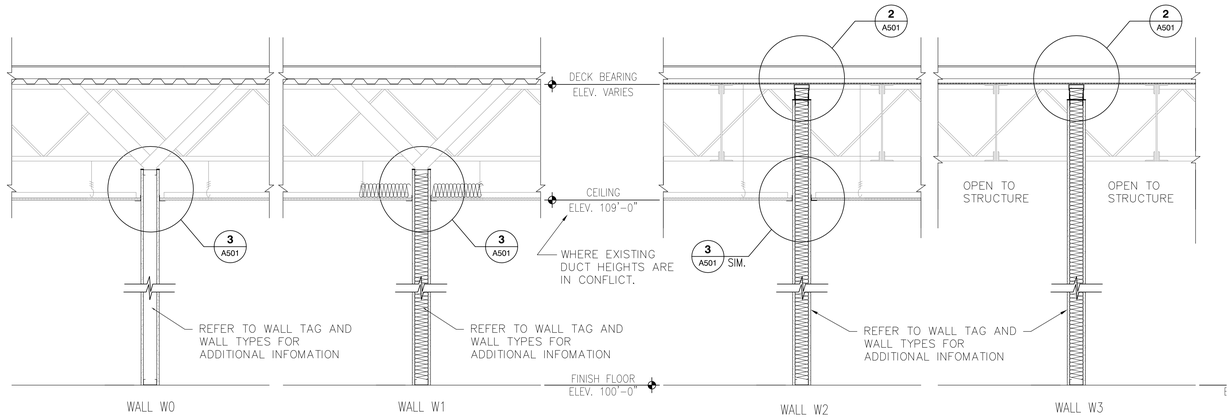
FRAME TYPE: F3 — H.M., SOLID GROUT FRAME

FRAME TYPE: F4 — H.M., SOLID GROUT FRAME

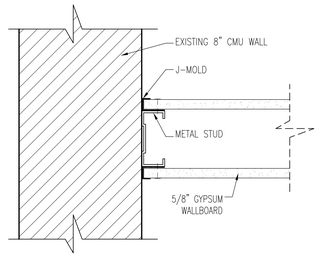
WINDOW TYPE: W1 — H.M., FIRE RESISTIVE GLAZING, SOLID GROUT FRAME

16/A501 **DOOR & FRAME TYPES** SCALE: 1/4" = 1'-0"

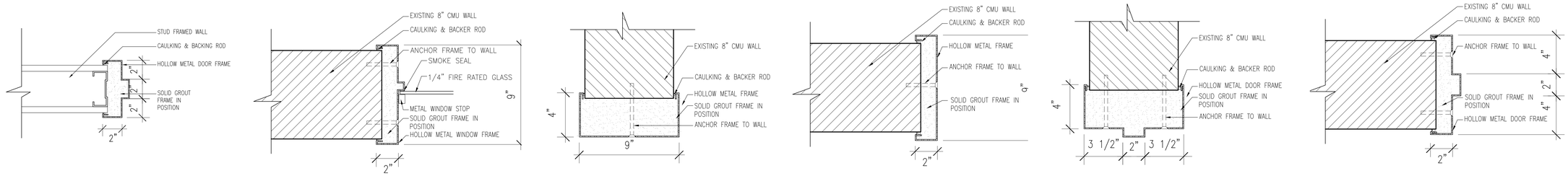
15/A501 **WINDOW TYPE** SCALE: 1/4" = 1'-0"



14/A501 **WALL SECTIONS/TYPES** SCALE: 3/4" = 1'-0"



13/A501 **NEW WALL TO EXISTING WALL DETAIL** SCALE: 3" = 1'-0"



12/A501 **DOOR JAMB/HEAD DETAIL** SCALE: 3" = 1'-0"

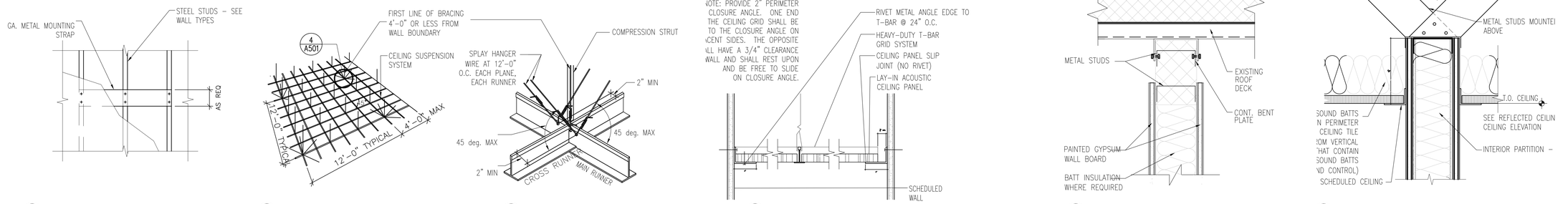
11/A501 **WINDOW HEAD/JAMB DETAIL** SCALE: 3" = 1'-0"

10/A501 **METAL FRAME HEAD DETAIL** SCALE: 3" = 1'-0"

9/A501 **METAL FRAME JAMB DETAIL** SCALE: 3" = 1'-0"

8/A501 **DOOR FRAME HEAD DETAIL** SCALE: 3" = 1'-0"

7/A501 **DOOR FRAME JAMB DETAIL** SCALE: 3" = 1'-0"



6/A501 **BACKING DETAIL** SCALE: N.T.S.

5/A501 **SIESMIC BRACING DETAIL** SCALE: N.T.S.

4/A501 **SIESMIC BRACING DETAIL** SCALE: N.T.S.

3/A501 **CEILING ATTACHEMENT/HANGING DETAIL** SCALE: N.T.S.

2/A501 **WALL TO ROOF DECK DETAIL** SCALE: 3" = 1'-0"

1/A501 **WALL TO CEILING DETAIL** SCALE: 3" = 1'-0"

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Project Title

UTAH NATIONAL GUARD ARMORY INTERIOR REMODEL

7602 AIRPORT ROAD, WEST JORDAN, UTAH

Sheet Title

SCHEDULES
WALL TYPES
WALL SECTIONS
DETAILS

Scale N.T.S.	Date 20 MAY, 2009
Drawn C.S.	Checked J.G.
Cad File A501.DWG	Sheet No. A-501
Project No. IBI-25946	

PLOTTED DATE: Thursday, 21 May 2009 - 7:57am

ARCH E1 - ADT 2003

ELECTRICAL SYMBOLS

LP2A–1,3 — HOME RUN TO PANELBOARD, ARROWS DENOTE NUMBER OF PHASE CONDUCTORS. LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. CIRCUITS SHALL INCLUDE ALL CONDUCTORS (PHASE, NEUTRAL & GROUND).

CONDUIT RUN EXPOSED

CONDUIT RUN CONCEALED IN OR UNDER FLOOR SLAB

CONDUIT CONCEALED IN WALL OR CEILING SPACE

A / 2A–2b — LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. '2A' DENOTES PANELBOARD, '2' DENOTES CIRCUIT NUMBER, 'b' DENOTES SWITCH LETTER, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.

A / 2A–2b — LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. '2A' DENOTES PANELBOARD, '2' DENOTES CIRCUIT NUMBER, 'b' DENOTES SWITCH LETTER, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. SHADING DENOTES A FIXTURE WITH A BATTERY BACKUP SYSTEM.

A — STRIP LIGHTING FIXTURE, ENCLOSED, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL) SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.

A — STRIP LIGHTING FIXTURE, ENCLOSED, 'A' DENOTES FIXTURE TYPE LETTER (NOTATIONS TYPICAL), WITH EMERGENCY BATTERY PACK, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.

LIGHTING FIXTURE, 2X4', FLUORESCENT, EXISTING

STRIP LIGHTING FIXTURE, ENCLOSED, EXISTING

EXIT SIGN, WITH DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.

S_2 — SINGLE POLE TOGGLE SWITCH, 15 AMPERE, 120/277 VOLT. MOUNTED 44 IN. ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.

- 2 DENOTES DOUBLE POLE TOGGLE SWITCH.
- 3 DENOTES THREE WAY TOGGLE SWITCH.
- 4 DENOTES FOUR WAY TOGGLE SWITCH.
- D DENOTES LOCAL WALL DIMMER.
- TS DENOTES TIME SWITCH.
- P DENOTES PILOT LIGHT.
- WP DENOTES WEATHERPROOF.

DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5–20R, MOUNTED 18 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5–20R, MOUNTED 18 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

SINGLE RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5–20R. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT INSTALLER.

QUAD RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5–20R. FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.

DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN RJ45, ONE (1) VOICE, ONE (1) DATA. MOUNTED 18 IN. AFF(TYP)

20A 3P — SINGLE LINE DIAGRAM THERMAL–MAGNETIC CIRCUIT BREAKER.

100/3 3R (MC) — NON–FUSIBLE DISCONNECT SWITCH, SIZE AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. '100/3' DENOTES 100 AMPERE, 3 POLE. '3R' DENOTES NEMA 3R ENCLOSURE. (MC) INDICATES FURNISHED BY MECHANICAL CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR. WHERE SHOWN WITHOUT (MC) INDICATES FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (NOTATION TYPICAL)

PANELBOARD, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP OF CABINET UNLESS OTHERWISE NOTED. SEE 'PANELBOARD SCHEDULE' FOR NUMBER AND SIZE OF OVERCURRENT DEVICES.

(S) — SMOKE DETECTOR, 120VAC, SURFACE MOUNTED, WITH BATTERY BACKUP

EMERGENCY LIGHT PACK WITH DUAL BEAM HEADS AND BATTERY BACKUP

(2) — KEYNOTE NUMBER REFERENCE, DENOTES "SEE KEYNOTE 2 THIS DRAWING".

T — TRANSFORMER, EXISTING

MECHANICAL SYMBOLS

	CTE	CONNECT TO EXISTING
		DUCTWORK SUPPLY DOWN
		DUCTWORK SUPPLY UP
		DUCTWORK EXHAUST OR RETURN DOWN
		DUCTWORK EXHAUST OR RETURN UP
	EAR	EXHAUST AIR REGISTER
	MOD	MOTOR OPERATED DAMPER
	RAR	RETURN AIR REGISTER
	SW	SWITCH
(T)	T'STAT	THERMOSTAT (MAY HAVE ARROW POINTING TO CONTROLLED DEVICE)
		TURNING VANES
	VD	VOLUME DAMPER

GENERAL NOTES:

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
2. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
3. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
4. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., AS SHOWN ON/IN OTHER CONTRACT DOCUMENTS.
5. MAINTAIN A MINIMUM OF 6'–8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
6. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
7. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE OR DUCT UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY.
8. WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
9. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITIVELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE CONTRACTING OFFICER BEFORE BEING FIELD INSTALLED. DO NOT SCALE DRAWINGS.
10. ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.
11. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN AND EXHAUST) CONNECTED TO AIR HANDLING UNITS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
12. PROPERLY SECURE/PROTECT/BRACE MECHANICAL WORK AND EQUIPMENT TO MEET PROJECT SEISMIC REQUIREMENTS; DESIGN CATEGORY–C, IMPORTANCE FACTOR–1.0, SITE CLASS–D.

LICENSED PROFESSIONAL ENGINEER No. 256084–2202 RAY K. THOM 5/20/09 STATE of UTAH

Client

PROJECT NORTH

Prime Consultant

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Project Title

UTAH NATIONAL GUARD
ARMORY INTERIOR REMODE

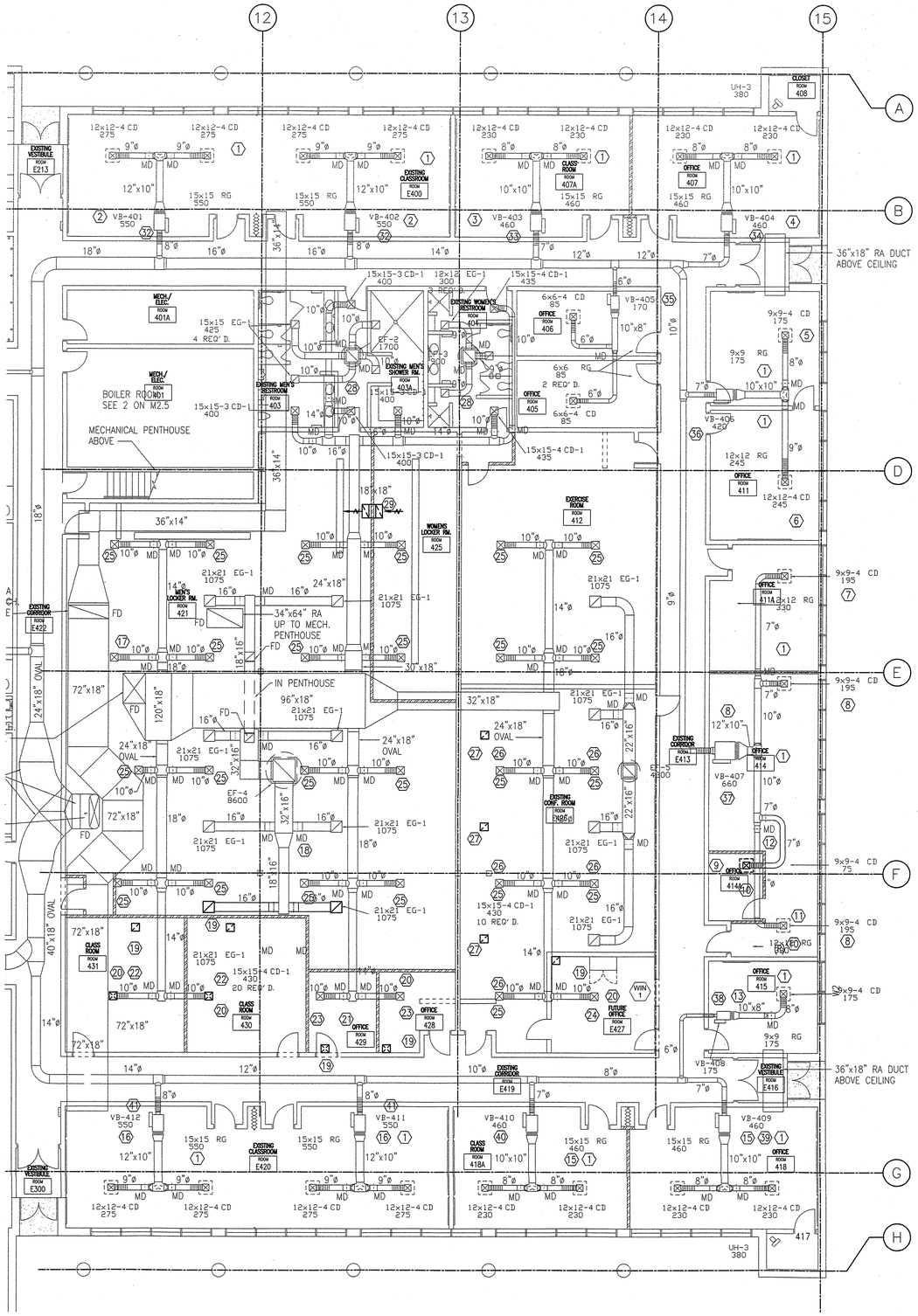
7600 AIRPORT RD. WEST JORDAN UT

Sheet Title

ELECTRICAL & MECHANICAL
SYMBOLS AND LEGENDS

Scale: AS NOTED	Date: 05-20-09
Drawn: RBM	Checked: RKT/TD
Cad File: EM001.DWG	Sheet No.
Project No.	EM001

PLOTTED DATE: Wednesday, 20 May 2009 - 3:46pm



1 M101 **MECHANICAL PLAN**

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1) THE EXISTING HVAC SYSTEM IS BEING REUSED AND SLIGHTLY MODIFIED. IN MOST CASES, THE EXISTING IS INADEQUATE FOR THE NEW OCCUPANCY (MOSTLY COOLING).

2) EXISTING EQUIPMENT UNMODIFIED OR KEEPING THE SAME AIR BALANCE IS NOT NOTED THOUGH EACH DIFFUSER SHALL BE REBALANCED.

3) VAV MINIMUMS REPRESENT THE REQUIRED VENTILATION PER ASHRAE 62.1

KEYNOTES:

1. EXISTING AIR SYSTEMS TO REMAIN. CONFIRM AND REPORT CONDITIONS WITH TEST AND BALANCE REPORT. CORRECT AIRFLOWS TO LISTED QUANTITIES WHERE NECESSARY.
2. ROOM HALF IS 1160 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
3. ROOM IS 880 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
4. ROOM IS 620 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
5. ROOM IS 55 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
6. ROOM IS 85 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
7. ROOM IS 120 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM. REBALANCE THE AIR TO THE NEW VALUE SHOWN.
8. ROOM IS 230 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM. REBALANCE THE AIR TO THE NEW VALUE SHOWN.
9. ROOM HAS ADEQUATE AIR WITH THE REMODEL.
10. RELOCATE EXISTING RETURN GRILLE OUT OF ROOM 414A INTO ROOM 414 AS SHOWN.
11. UNDERCUT DOOR BY 1" FOR RETURN
12. CONNECT NEW DUCT TO EXISTING TAKEOFF AND RELOCATE EXISTING DIFFUSER AS SHOWN. REBALANCE AIR AS INDICATED.
13. ROOM IS 40 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
14. ROOM IS 440 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
15. ROOM IS 800 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
16. ROOM HALF IS 850 CFM SHORT AT 47 DEG. F SUPPLY AIR TEMP. REUSING THE EXISTING SYSTEM.
17. EXISTING SYSTEM IS HEATING ONLY. SO AIRFLOW NUMBERS SHOWN REPRESENT COOLING NUMBERS FOR FUTURE MODIFICATION.
18. REMOVE SECTION OF RETURN DUCT AS SHOWN AND RELOCATE RETURN TAKEOFFS TO NEW LOCATION.
19. NEW 12 x 12 RETURN GRILLE TO MATCH EXISTING IN OFFICE 414 OPEN TO PLENUM ABOVE.
20. DIFFUSER AND BOX TO BE RELOCATED TO SPACE IN CEILING GRID. MODIFY FLEX DUCT AS NECESSARY LIMITING LENGTH TO 5'-0 MAX. DO NOT ALLOW KINKS.
21. DIFFUSER AND BOX TO BE RELOCATED INTO SPACE AND IN CEILING GRID. MODIFY FLEX DUCT AS NECESSARY LIMITING LENGTH TO 5'-0 MAX. DO NOT ALLOW KINKS.
22. REBALANCE AIR TO 375 CFM ON DIFFUSER.
23. REBALANCE AIR TO 100 CFM ON DIFFUSER.
24. REBALANCE AIR TO 200 CFM ON DIFFUSER.
25. REBALANCE EXISTING DIFFUSER TO 470 CFM.
26. EXISTING SYSTEM IS ABOVE LAY-IN CEILING. RELOCATE DIFFUSER TO CEILING GRID PER KEYNOTE 20.
27. NEW 24" x 24" RETURN GRILLES TO MATCH ROOM 414 STYLE. OPEN TO PLENUM ABOVE.
28. EXISTING EXHAUST SYSTEM TO REMAIN. REBALANCE TO ORIGINAL NUMBERS.
29. NEW 24 x 12 TRANSFER DUCT NEAR ROOF ABOVE CEILING FOR AIR TRANSFER.
30. EXISTING AH-1 SHALL REBALANCE FOR A VENTILATION (OUTSIDE AIR) MINIMUM OF 3565 CFM.
31. EXISTING AH-2 SHALL REBALANCE FOR A VENTILATION (OUTSIDE AIR) MINIMUM OF 2200 CFM.
32. EXISTING VAV BOX VB-401 AND VB-402 SHALL HAVE A MINIMUM FLOW OF 310 CFM EACH.
33. EXISTING VAV BOX VB-403 SHALL HAVE A MINIMUM FLOW OF 285 CFM.
34. EXISTING VAV BOX VB-404 SHALL HAVE A MINIMUM FLOW OF 60 CFM.
35. EXISTING VAV BOX VB-405 SHALL HAVE A MINIMUM FLOW OF 50 CFM.
36. EXISTING VAV BOX VB-406 SHALL HAVE A MINIMUM FLOW OF 75 CFM.
37. EXISTING VAV BOX VB-407 SHALL HAVE A MINIMUM FLOW OF 120 CFM.
38. EXISTING VAV BOX VB-408 SHALL HAVE A MINIMUM FLOW OF 30 CFM.
39. EXISTING VAV BOX VB-409 SHALL HAVE A MINIMUM FLOW OF 65 CFM.
40. EXISTING VAV BOX VB-410 SHALL HAVE A MINIMUM FLOW OF 285 CFM.
41. EXISTING VAV BOX VB-401 AND VB-402 SHALL HAVE A MINIMUM FLOW OF 310 CFM EACH.

LEGEND:

AIR DISTRIBUTION — RG / A — CD — CD=CEILING DIFFUSER, RG=RETURN GRILL, A=AIR FLOW

VAV BOX — T / A — T=TAG NUMBER, AIR FLOW

(E)= EXISTING EQUIPMENT TO REMAIN

(R)= EXISTING EQUIPMENT FOR RELOCATION

LICENSED PROFESSIONAL ENGINEER
NO. 189171-2202
TODD L. DORIUS
STATE OF UTAH

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Issues

No.	Date	Apprd.	Description

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Project Title

UTAH NATIONAL GAURD ARMORY INTERIOR REMOD

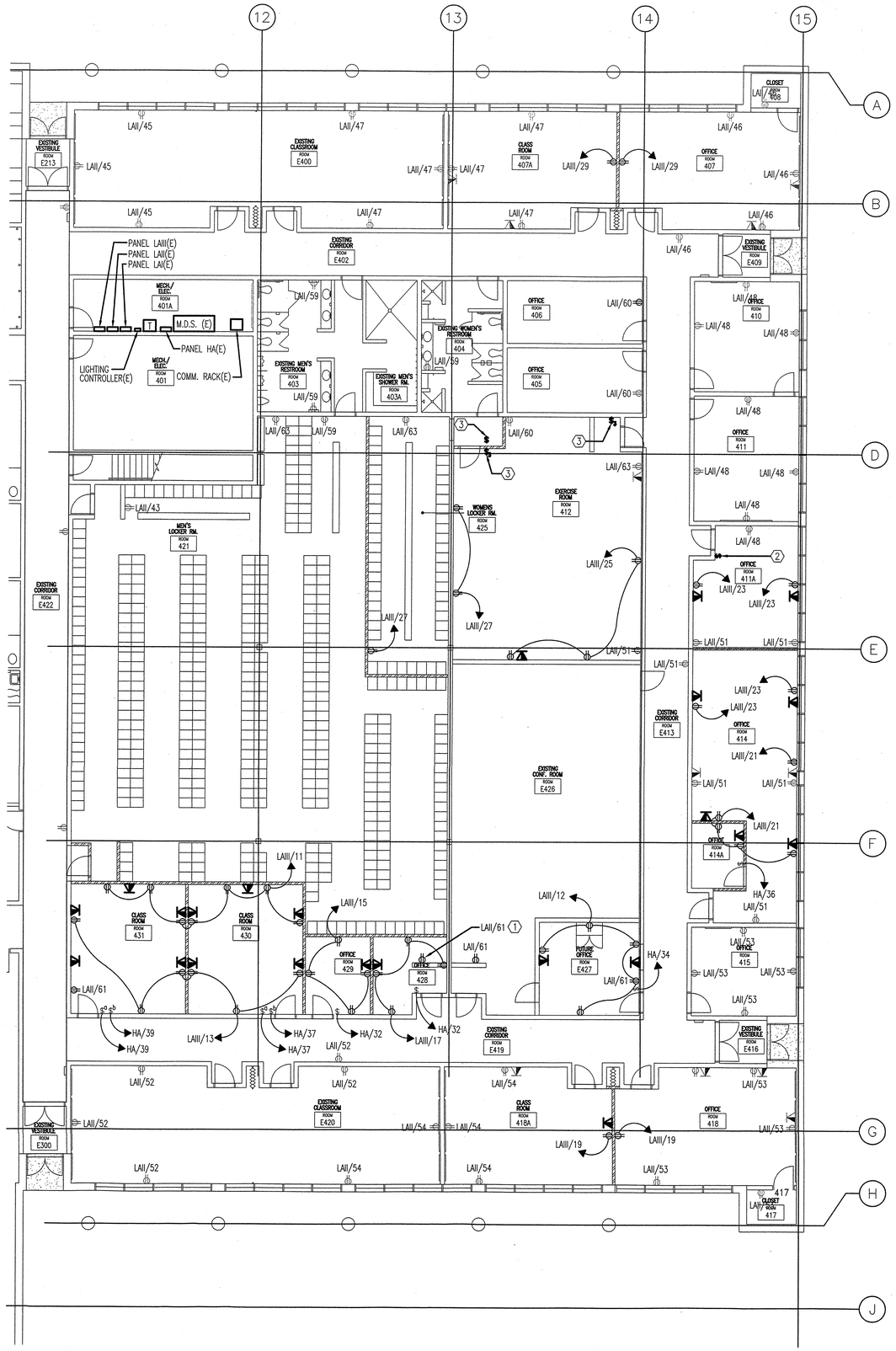
7600 AIRPORT RD. WEST JORDAN UT

Sheet Title

MECHANICAL REMODEL PLAN

Scale: AS NOTED	Date: 05-20-09
Drawn: RBM	Checked: TD
Cad File: M101.DWG	Sheet No.
Project No.	M101

PLOTTED DATE: Wednesday, 20 May 2009 - 3:43pm



1 E101 ELEC. POWER PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1) PANEL AND CIRCUIT NUMBER DESIGNATIONS ARE FOR GENERAL REFERENCE ONLY AND WERE NOT FIELD VERIFIED. ANY EXISTING CIRCUIT MODIFICATIONS SHOULD BE FIELD VERIFIED BEFORE BEGINNING WORK.

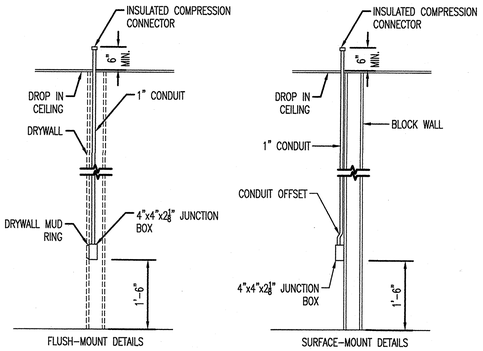
2) ALL POWER CONDUIT TO BE A MINIMUM 3/4" EMT WITH TYPE THHN, STRANDED COPPER CONDUCTORS

3) THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 120 VOLT CIRCUIT BREAKER MOUNTED IN A PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS:

NO. 12 AWG WIRE – UP TO 100 FEET RUN
NO. 10 AWG WIRE – 101 FEET RUN TO 200 FEET RUN
NO. 8 AWG WIRE – 201 FEET RUN TO 300 FEET RUN

KEYNOTES:

1. EXISTING OUTLET TO BE DISCONNECTED AND REMOVED. A JUNCTION IS TO BE INSTALLED IN THE ATTIC TO ACCOMMODATE THE CONTINUATION OF THE CIRCUIT TO OTHER EXISTING OUTLETS
2. REPLACE EXISTING 3-WAY TOGGLE SWITCH WITH A SINGLE-POLE TOGGLE SWITCH. UTILIZE THE EXISTING LIGHTING CIRCUIT IN THE ROOM TO CONTROL EXISTING LIGHT FIXTURES.
3. NEW TOGGLE SWITCH TO CONTROL NEW AND EXISTING LIGHT FIXTURES IN EACH AREA. UTILIZE THE EXISTING LIGHT CIRCUIT IN EACH ROOM LOCATION.



2 E101 COMM. DROP DETAIL - TYPICAL

SCALE: 1/8" = 1'-0"

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Project Title

UTAH NATIONAL GUARD
ARMORY INTERIOR REMODEL

7600 AIRPORT RD. WEST JORDAN UT

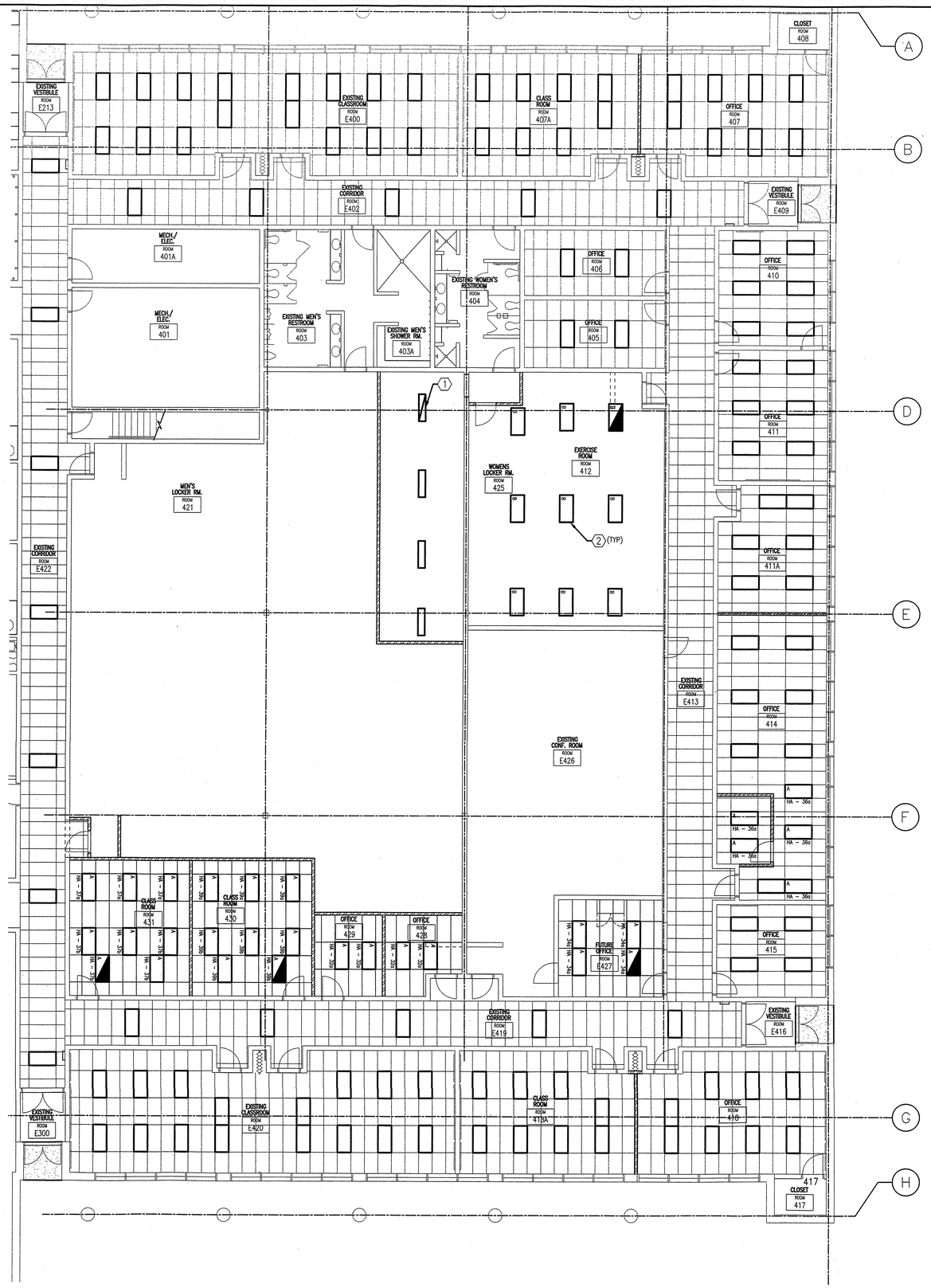
Sheet Title

ELECTRICAL POWER PLAN

LICENSED PROFESSIONAL ENGINEER
No. 7256084-2202
RAY K. THOM
STATE of UTAH

Scale	Date
AS NOTED	05-20-09
Drawn: RBM	Checked: RKT
Cad File: E101.DWG	Sheet No. E101
Project No.	

PLOTTED DATE: Wednesday, 20 May 2009 - 3:53pm



1 E102 **ELEC. LIGHTING PLAN**

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1) PANEL AND CIRCUIT NUMBER DESIGNATIONS ARE FOR GENERAL REFERENCE ONLY AND WERE NOT FIELD VERIFIED. ANY EXISTING CIRCUIT MODIFICATIONS SHOULD BE FIELD VERIFIED BEFORE BEGINNING WORK.

2) ALL POWER CONDUIT TO BE A MINIMUM 3/4" EMT WITH TYPE THHN, STRANDED COPPER CONDUCTORS

3) THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 277 VOLT CIRCUIT BREAKER MOUNTED IN A PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS:

NO. 12 AWG WIRE – UP TO 100 FEET RUN
NO. 10 AWG WIRE – 101 FEET RUN TO 200 FEET RUN
NO. 8 AWG WIRE – 201 FEET RUN TO 300 FEET RUN

KEYNOTES:

1. EXISTING LIGHT FIXTURE TO HAVE AN EMERGENCY BATTERY PACK INSTALLED IN IT
2. NEW LIGHT FIXTURE TO BE MOUNTED IN THE PLACE OF THE EXISTING LIGHT FIXTURES. UTILIZE THE EXISTING CIRCUIT FEED.

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Project Title

UTAH NATIONAL GUARD
ARMORY INTERIOR REMODE

7600 AIRPORT RD. WEST JORDAN UT

Sheet Title

ELECTRICAL LIGHTING PLAN

LICENSED PROFESSIONAL ENGINEER
No. 256084-2202
RAY K. THOM
STATE OF UTAH

Scale	Date
AS NOTED	05-20-09
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Cad File: E102.DWG	Sheet No.
Project No.	E102

PLOTTED DATE: Wednesday, 20 May 2009 - 3:44pm

VOLTAGE:		120	/208	PHASE: 3 WIRE: 4	→									PANELBOARD :	→	HA			
BUS AMPERES:			225		→	MAIN LUGS (ONLY) ON:								TYPE MOUNTING:	→	SURFACE			
K.A.I.C. RATING:			65		→									LOCATION:	→	ELECTRICAL ROOM			
MAIN BKR. AMPS:			NA		→	MAIN BREAKER MOUNTED ON:						NA		FED FROM:	→	TRANSFORMER			
CKT. NO.	POLE	BKR AMPS	WIRE SIZE	CIRCUIT DESCRIPTION	TYPE OF LOAD	KVA PHASE A	B	C	CKT. NO.	POLE	BKR AMPS	WIRE SIZE	CIRCUIT DESCRIPTION	TYPE OF LOAD	KVA PHASE A	B	C		
1	1	20	12	LIGHTING	1	1.4			2	1	20	12	LIGHTING	1	3.2				
3	1	20	12	LIGHTING	1		4.0		4	1	20	12	LIGHTING	1		1.9			
5	1	20	12	LIGHTING	1			3.3	6	1	20	12	LIGHTING	1			3.2		
7	1	20	12	LIGHTING	1	2.7			8	1	20	12	LIGHTING	1	2.5				
9	1	20	12	LIGHTING	1		3.2		10	1	20	12	LIGHTING	1		3.8			
11	1	20	12	LIGHTING	1			2.6	12			—	SPARE	1			0.0		
13	1	20	12	LIGHTING	1	3.8			14			—	SPARE	1	0.0				
15	1	20	12	LIGHTING	1		2.7		16			—	SPARE	1		0.0			
17	1	20	12	VAV	1			1.4	18	1	20	12	LIGHT STORAGE BLDG	1			2.8		
19	1	20	12	VAV	1	1.4			20	1	20	12	VAV	1	1.4				
21			—	SPARE	1		0.0		22	1	20	12	VAV	1		1.4			
23			—	SPARE	1			0.0	24	1	20	12	VAV	1			1.4		
25			—	SPARE	1	0.0			26	1	20	12	LIGHT POLES	1	UNK				
27			—	SPARE	1		0.0		28	1	20	12	OUTSIDE LIGHTS	1		UNK			
29	3	20	12	BOILER	1			UNK	30	1	20	12	OUTSIDE LIGHTS STOR	1			UNK		
31			—	BOILER	1	UNK			32	1	20	12	LIGHTING (RM 428,429)	1	0.4				
33			—	BOILER	1		UNK		34	1	20	12	LIGHING (RM 427)	1		0.4			
35	1	20	12	SURGE PROTECTION	1			UNK	36	1	20	12	LIGHTING (414A, 414, 411	1			0.9		
37	1	20	12	LIGHTING (RM 430)	1	0.8			38			—		1					
39	1	20	12	LIGHTING (RM 431)	1		0.8		40			—		1					
41			—		1				42			—		1					
							PHASE												
				PANELBOARD LOAD SUMMARY:		A	B	C						TOTAL					
				TOTALS (KVA):		17.6	18.2	15.6						51.5					
				TOTALS (AMPS):		146.8	151.9	130.3						143.0					

VOLTAGE:		120	/208	PHASE: 3 WIRE: 4	→									PANELBOARD :	→	LAIII			
BUS AMPERES:			225		→	MAIN LUGS (ONLY) ON:								TYPE MOUNTING:	→	SURFACE			
K.A.I.C. RATING:			65		→									LOCATION:	→	ELECTRICAL ROOM			
MAIN BKR. AMPS:			NA		→	MAIN BREAKER MOUNTED ON:						NA		FED FROM:	→	TRANSFORMER			
CKT. NO.	POLE	BKR AMPS	WIRE SIZE	CIRCUIT DESCRIPTION	TYPE OF LOAD	KVA PHASE A	B	C	CKT. NO.	POLE	BKR AMPS	WIRE SIZE	CIRCUIT DESCRIPTION	TYPE OF LOAD	KVA PHASE A	B	C		
1			—	SPACE	1	UNK			2	1	20	12	UNKNOWN	1	UNK				
3			—	SPACE	1		UNK		4	1	20	12	UNKNOWN	1		UNK			
5	1	20	12	UNKNOWN	1			UNK	6	1	20	12	UNKNOWN	1			UNK		
7	1	20	12	UNKNOWN	1	UNK			8	1	20	12	UNKNOWN	1	UNK				
9	1	20	12	UNKNOWN	1		UNK		10	1	20	12	UNKNOWN	1		UNK			
11	1	20	12	ROOMS 431, 430	1			1.3	12	1	20	12	ROOM 427	1			0.7		
13	1	20	12	ROOMS 431, 430	1	1.1			14			—		1					
15	1	20	12	ROOM 429	1		0.7		16			—		1					
17	1	20	12	ROOM 428	1			0.7	18			—		1					
19	1	20	12	ROOMS 418A, 418	1	0.4			20			—		1					
21	1	20	12	ROOMS 414A, 414	1		0.9		22			—		1					
23	1	20	12	ROOMS 411A, 414	1			0.7	24			—		1					
25	1	20	12	ROOM 412	1	0.5			26			—		1					
27	1	20	12	ROOM 412	1		0.5		28			—		1					
29	1	20	12	ROOM 407A, 407	1			0.4	30			—		1					
31			—		1				32			—		1					
33			—		1				34			—		1					
35			—		1				36			—		1					
37			—		1				38			—		1					
39			—		1				40			—		3					
41			—		1				42			—		2					
							PHASE												
				PANELBOARD LOAD SUMMARY:		A	B	C						TOTAL					
				TOTALS (KVA):		2.0	2.1	3.8						8.0					
				TOTALS (AMPS):		17.0	17.8	31.7						22.2					

LIGHTING FIXTURE SCHEDULE

LTR	LOCATION	STYLE	MOUNTING	MANUFACTURER/CATALOG NO.	LAMP	VOLTS	NOTES
A	OFFICE AREAS	2' X 4'	RECESSED	LITHONIA	FLUORESCENT	277VAC	EMERGENCY BALLASTS TO BE
	CLASSROOMS			CAT.NO. 2PMO G B 3 32 27LS	3-32W T8(48")		INSTALLED WHERE INDICATED
				MVOLT GEB10IS OR			
				ENG. APPROVED EQUAL			
B	EXERCISE	2' X 4'	SUFACE	LITHONIA	FLUORESCENT	277VAC	EMERGENCY BALLASTS TO BE
	ROOM			CAT.NO. 2VRS 4 32 AR12	4-32W T8(48")		INSTALLED WHERE INDICATED
				MVOLT GEB10IS OR			
				ENG. APPROVED EQUAL			

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UTAH NATIONAL GUARD
ARMORY INTERIOR REMODE

7600 AIRPORT RD. WEST JORDAN UT

Sheet Title

ELECTRICAL PANEL SCHEDULES

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