PROJECT:

FILLMORE ARMORY REMODEL

35 WEST CENTER STREET - FILLMORE, UTAH

State of Utah–Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 State Office Building/Salt Lake City, Utah 84114/538–3018

DFCM PROJECT NO. 09242470

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-
-
-

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GENERAL CONTRACTOR
TBD
-
-
-

APPROVALS

PRIME AGENCY ____ DATE ____

DFCM ____ DATE ____

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

PRIME AGENCY ____ DATE ____

DFCM ____ DATE ____

APPROVAL DOES NOT RELIEVE A/E OF DESIGN LIABILITY

ABBREVIATIONS

#	NUMBER	EF.	EACH FACE	HVAC	HEATING/VENTILATION/ AIR CONDITIONING	RAD.	RADIUS
@	AT	EJ.	EXPANSION JOINT			REINF.	REINFORCED
L	ANGLE	EL./ELEV.	ELEVATION	HYD	HYDRANT	REQ'D	REQUIRED
A.B.	ANCHOR BOLT	EQ.	EQUAL	ID.	INSIDE DIAMETER	RM.	ROOM
ABV.	ABOVE	EW.	EACH WAY	IF.	INSIDE FACE	R.O.	ROUGH OPENING
ADJ.	ADJUSTABLE	EXIST.	EXISTING	INFO.	INFORMATION	SCHED.	SCHEDULE
A.F.F.	ABOVE FINISH FLOOR	EXP.	EXPANSION	INSUL.	INSULATION	SHT.	SHEET
ALUM.	ALUMINUM	EXT.	EXTERIOR	LAV.	LAVATORY	SIM.	SIMILAR
D.B.A.	DEFORMED BAR ANCHOR	E.W.C.	ELECTRIC WATER COOLER	LT.	LIGHT	SPEC.	SPECIFICATION
BD.	BOARD	F.D.	FLOOR DRAIN	LT. WT.	LIGHT WEIGHT	STC	SOUND TRANSMISSION COEFFICIENT
BLDG.	BUILDING	FDN./FDTN.	FOUNDATION	MAINT.	MAINTENANCE	STD.	STANDARD
BM.	BENCHMARK	F.E.	FIRE EXTINGUISHER	MANUF.	MANUFACTURER	STIFF.	STIFFENER
B.O.	BOTTOM OF	F.E.C.	FIRE EXTINGUISHER CABINET	MAX.	MAXIMUM	STRUCT.	STRUCTURAL
BOT.	BOTTOM	F.F.	FINISH FLOOR	MAT.	MATERIAL	SUSP.	SUSPENDED
B.P.	BASE PLATE	FIN.	FINISH	M.C.J.	MASONRY CONTROL JOINT	T.O.	TOP OF
BRG.	BEARING	FLR.	FLOOR	MECH.	MECHANICAL	T.O.C.	TOP OF CURB
BTWN.	BETWEEN	FT.	FEET	MIN.	MINIMUM	T.O.F.	TOP OF FOOTING
C.J.	CONSTRUCTION JOINT	FTG.	FOOTING	MISC.	MISCELLANEOUS	T.O.S.	TOP OF SLAB OR SIDEWALK
CLG.	CEILING	GA.	GAGE/GAUGE	M.O.	MASONRY OPENING		
CLR.	CLEAR	GALV.	GALVANIZED	MTL.	METAL	T.O.W.	TOP OF WALL
CMU	CONCRETE MASONRY UNIT	GPM	GALLONS PER MINUTE	N.I.C.	NOT IN CONTRACT	TYP.	TYPICAL
COL.	COLUMN	GND.	GROUND	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
CONC.	CONCRETE	GOVT.	GOVERNMENT	O.C.	ON CENTER		
CONT.	CONTINUOUS	GYP. BD.	GYPSUM WALL BOARD	O.D.	OUTSIDE DIAMETER	VERT.	VERTICAL
CONST.	CONSTRUCTION	HC.	HANDICAPPED	OF.	OUTSIDE FACE	VNR.	VENEER
C.T.J.	CONTRACTION JOINT	HDW.	HARDWARE	PERP.	PERPENDICULAR	W/	WITH
DBL.	DOUBLE	HM	HOLLOW METAL	PL.	PLATE	WD.	WOOD
DET./DTL.	DETAIL	HORIZ.	HORIZONTAL	PTD.	PAINTED	W.W.F.	WELDED WIRE FABRIC
DIA.	DIAMETER	H.S.A.	HEADED STUD ANCHOR	QTY.	QUANTITY		
DWGS.	DRAWINGS	HT.	HEIGHT	RD.	ROOF DRAIN		

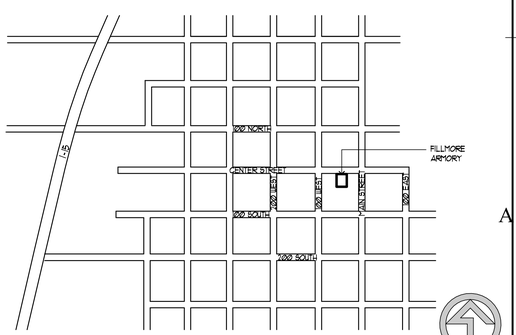
GRAPHIC SYMBOLS

- FLOOR OR POINT ELEVATION
- CENTER LINE
- DIAMETER
- KEY NOTE
- WALL TYPE
- DOOR NUMBER
- WINDOW NUMBER
- FIXTURE TAG
- REVISION TAG
- DETAIL
- INTERIOR ELEVATION
- ENTRY 101 — ROOM NAME & NUMBER
- BUILDING OR WALL ELEVATION
- WALL SECTION
- BUILDING SECTION
- A / 1 — MASTER GRID LINES
- A / 1 — PARKING GRID LINES
- A / 1 — BUILDING GRID LINES

MATERIALS / LEGEND

- CONCRETE MASONRY UNIT
- BRICK VENEER
- STONE VENEER
- CONCRETE
- GYPSUM BOARD OR GROUT MORTAR
- BATT INSULATION
- RIGID INSULATION
- PLYWOOD
- ROUGH WOOD-CONTINUOUS
- ROUGH WOOD-BLOCKING
- WOOD TRIM
- STEEL
- GRAVEL
- EARTH
- TILE

VICINITY MAP



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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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SHEET TITLE
COVER SHEET

SHEET NUMBER
G-001

SPECIAL REQUIREMENTS

1. THE FILLMORE ARMORY IS CLASSIFIED AS AN HISTORIC BUILDING. ALL ADDITIONS AND MODIFICATIONS SHOULD BE COMPLETED AS PER THESE CONSTRUCTION DRAWINGS AND PROJECT MANUAL. ALL CONDITIONS DIFFERENT TO THOSE DETAILED HERE-IN NEED TO BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO CONSTRUCTION.

DEFERRED SUBMITTALS BY CONTRACTOR

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DOOR AND WINDOW DETAILS		
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■	E-401	ELECTRICAL RISERS
■	E-501	ELECTRICAL DETAILS
■	E-502	ELECTRICAL DETAILS

PROJECT KEYNOTES

01415 - SELECTIVE STRUCTURE DEMOLITION
01415-01 DEMOLITION AND REMOVAL OF SELECTED PORTIONS OF BUILDING OR STRUCTURE
01415-02 DEMOLITION AND REMOVAL OF SELECTED SITE ELEMENTS
01415-03 SALVAGE OF EXISTING ITEMS TO BE REUSED OR RECYCLED
01415-05 DISPOSAL OF DEMOLISHED MATERIALS

CONCRETE

03300 - CAST- IN- PLACE CONCRETE
03300-05 CONCRETE PAVING
03300-09 CAST IN PLACE CONCRETE CURB- SEE DETAILS

METALS
05400 - Cold formed metal framing
05400-04 Interior metal stud bearing wall - see wall types
05400-05 Interior metal stud non-bearing wall - see wall types

05500 - METAL FABRICATIONS
05500-01 MISCELLANEOUS STEEL FRAMING AND SUPPORTS.

WOOD, PLASTICS, AND COMPOSITES
06100 - Rough carpentry
06100-05 2 X 6 D.F. stud wall - see wall types
06100-06 2 X 4 D.F. stud wall - see wall types
06100-07 1 X solid blocking
06100-08 3 X solid solid blocking
06100-13 wood blocking, cants, and nailers
06100-14 Wood furring and grounds
06100-17 Plywood backing panels

THERMAL AND MOISTURE PROTECTION

07190 - WATER REPELLENTS
07190-01 PENETRATING WATER-REPELLENT COATINGS

07210 - THERMAL INSULATION
07210-01 PERIMETER INSULATION UNDER SLABS-ON-GRADE.
07210-02 PERIMETER WALL INSULATION (SUPPORTING BACKFILL)
07210-03 CAVITY-WALL INSULATION
07210-04 CONCEALED BUILDING INSULATION
07210-10 VAPOR RETARDERS

07513 - BUILT-UP ASPHALT ROOFING
07513-01 Asphalt Roof Coating: Type II, Class 1, mineral-colloid-emulsified, fibered asphalt emulsion, asbestos free.
07513-02 Asphalt Roof Coating: Type II, Class 2, chemically emulsified, filled or fibered asphalt emulsion, asbestos free.
07513-03 Asphalt Roof Coating: Type III, Class 1, mineral-colloid-emulsified asphalt emulsion, nonfibered.
07513-04 Asphalt Roof Coating: Type III, Class 2, chemically emulsified asphalt emulsion, nonfibered.
07513-05 Asphalt Roof Coating: Type I, nonfibered aluminum-pigmented asphaltic coating.
07513-06 Asphalt Roof Coating: Type III, fibered, asbestos-free aluminum-pigmented asphaltic coating.
07513-07 Asphalt Roof Coating: acrylic elastomer emulsion coating, formulated for use on bituminous roof surfaces.
07513-08 Walkway Pads: Mineral-granule-surfaced, reinforced asphaltic composition
07513-09 Walkway Pads: Polymer-modified, reconstituted solid-rubber, surface-textured
07513-10 Cap Sheet Strips: polyester-reinforced, SBS-modified, asphalt-impregnated and -coated walkway sheet.
07513-11 Cap Sheet Strips: glass-fiber-reinforced, SBS-modified, asphalt-impregnated and -coated walkway sheet.
07513-12 Walkway Roof Pavers:

07110 - ROOF SPECIALTIES
07110-07 COUNTERFLASHINGS AND REGLETS.

07813 - PENETRATION FIRESTOPPING
07813-01 penetrations through fire-resistance-rated constructions, empty openings.
07813-02 penetrations through fire-resistance-rated constructions, openings containing penetrating items

07846 - FIRE-RESISTIVE JOINT SYSTEMS - see drawings and specs

07920 - JOINT SEALANTS- see drawings and specs
07920-01 ELASTOMERIC JOINT SEALANT SYSTEM - SEE SPECIFICATIONS
07920-02 SOLVENT-RELEASE JOINT SEALANT SYSTEM - see specifications
07920-03 LATEX JOINT SEALANT SYSTEM - see specifications
07920-04 ACOUSTICAL JOINT SEALANT SYSTEM - see specifications
07920-05 PREFORMED JOINT SEALANT SYSTEM - see specifications
07920-06 PREFORMED TAPE SEALANT SYTEM - see specifications
07920-07 JOINT-SEALANT BACKING SYSTEM - see specifications

07950 - EXPANSION CONTROL
07950-05 INTERIOR WALL-TO-CEILING JOINT SYSTEM - SEE SPECIFICATIONS
07950-06 INTERIOR CEILING-TO-CEILING JOINT SYSTEM - SEE SPECIFICATIONS
07950-07 SLAB-TO-SLAB JOINT SYSTEMS
07950-08 SLAB-TO-WALL JOINT SYSTEMS
07950-09 WALL-TO-WALL JOINT SYSTEMS

OPENINGS

08113 - HOLLOW METAL DOORS AND FRAMES
08113-01 INTERIOR HOLLOW METAL FIRE CORE DOOR
08113-03 INTERIOR STANDARD HOLLOW METAL FRAMES
08113-05 Exterior HOLLOW METAL Frames - THERMAL-RATED (INSULATED).
08113-07 Jamb Anchors FOR Stud-Wall.

08146 - FLUSH WOOD DOORS
08146-01 Particleboard-Core Doors
08146-03 Fire-Protection-Rated Doors
08146-04 Mineral-Core Doors

08313 - ACCESS DOORS AND FRAMES
08313-01 ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS
08313-01 FIRE-RATED ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS

08413 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08413-01 EXTERIOR AND INTERIOR STOREFRONT FRAMING.

08513 - ALUMINUM WINDOWS

08111 - DOOR HARDWARE (SCHEDULED BY DESCRIBING PRODUCTS)
08111-01 COMMERCIAL DOOR HARDWARE FOR SWINGING DOORS

08800 - GLAZING - SHOWN ON WINDOW SCHEDULE AND DOOR SCHEDULES

FINISHES
09290 - GYPSUM BOARD
09290-03 TILE BACKING PANELS.

09300 - TILING
09300-01 CERAMIC MOSAIC TILE.
09300-04 GLAZED WALL TILE.
09300-06 STONE THRESHOLDS
09300-08 WATERPROOF MEMBRANE FOR THIN-SET TILE INSTALLATIONS.
09300-09 CRACK-SUPPRESSION MEMBRANE FOR THIN-SET TILE INSTALLATIONS.
09300-10 CEMENTITIOUS BACKER UNITS
09300-11 METAL EDGE STRIPS

09513 - ACOUSTICAL PANEL CEILINGS
09513-01 NARROW-FACE, CAPPED, DOUBLE-WEB, STEEL SUSPENSION SYSTEM
09513-11 METAL EDGE MOLDINGS AND TRIM

09646 - WOOD ATHLETIC FLOORING
09646-01 STRIP FLOORING: NORTHERN HARD MAPLE

09653 - RESILIENT BASE AND ACCESSORIES
09653-01 Resilient base

09656 - RESILIENT ATHLETIC FLOORING
09656-05 RUBBER FLOOR TILE

09683 - TILE CARPETING
09683-01 modular, fusion-bonded carpet tile
09683-02 modular, tufted carpet tile.

09900 - PAINTING

09923 - INTERIOR PAINTING
09923-02 primer / sealer
09923-05 INTERIOR LATEX PAINTS

SPECIALTIES
10400 - SIGNAGE
10400-04 Panel signs.

10213 - TOILET COMPARTMENTS
10213-02 stainless-steel Toilet Enclosures
10213-13 stainless-steel Urinal Screens

10800 - TOILET, BATH, AND LAUNDRY ACCESSORIES - THESE ITEMS ARE SHOWN ON A SCHEDULE AND IN THE SPEC

10413 - FIRE EXTINGUISHER CABINETS - THESE ITEMS ARE SHOWN ON A SCHEDULE
10413-01 Portable fire extinguishers

10416 - FIRE EXTINGUISHERS
10416-01 FIRE EXTINGUISHERS: portable, hand-carried
10416-03 mounting brackets FOR FIRE EXTINGUISHERS

10500 - FLAGPOLES
10500-01 flagpole: ground-mounted

EQUIPMENT

FURNISHINGS

DIVISION 22 PLUMBING

DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING

DIVISION 26 ELECTRICAL

DIVISION 27 COMMUNICATIONS

DIVISION 32 EXTERIOR IMPROVEMENTS

32116 - ASPHALT PAVING
32840 - PLANTING IRRIGATION
32920 - TURF AND GRASSES
32930 - PLANTS

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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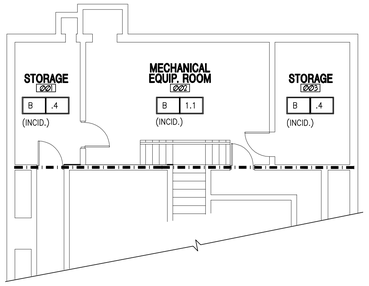
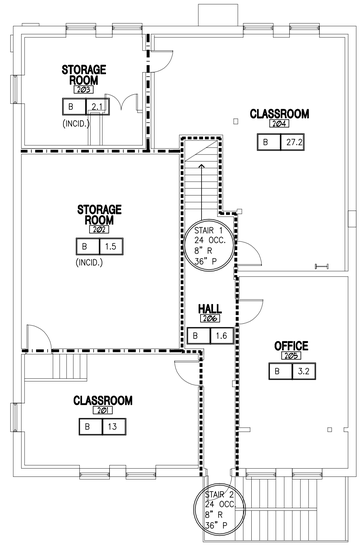
SHEET TITLE
SHEET INDEX & PROJECT KEYNOTES

SHEET NUMBER
G-002

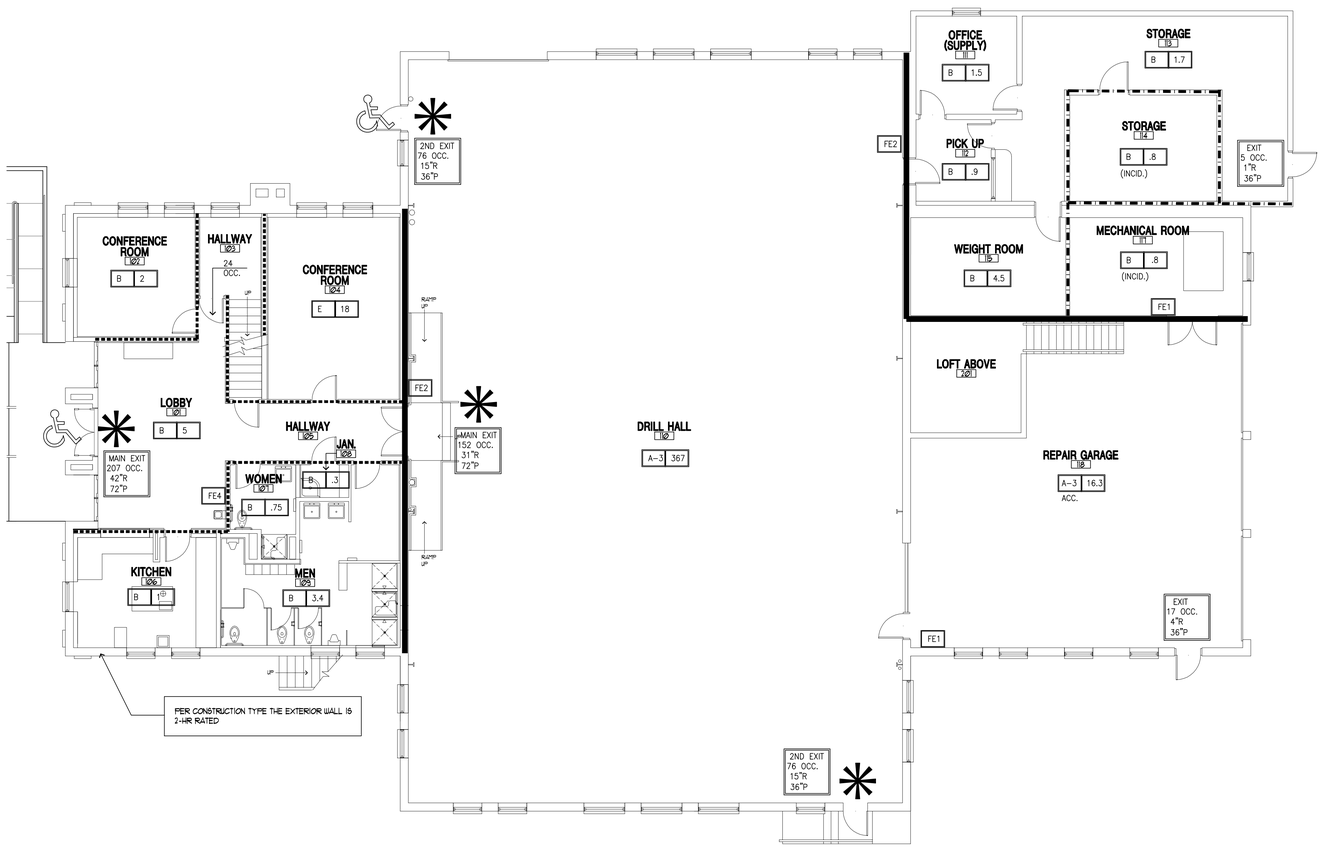
CODE COMPLIANCE AND EXITING DIAGRAMS



BASEMENT CODE ANALYSIS
SCALE: 3/4"= 1'-0"
D3 G003



UPPER LEVEL CODE ANALYSIS
SCALE: 3/4"= 1'-0"
D5 G003



MAIN LEVEL CODE ANALYSIS
SCALE: 3/4"= 1'-0"
A5 G003

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	1997 UCBC
International Fire Code	2006	ADA Accessibility	
International Energy		Guildelines	ANSI A117.1-2003
Conservation Code	2006		

A. Occupancy and Group: A-3 B S-1

Change in Use: Yes ___ No X Mixed Occupancy: Yes X No ___

Special Use and Occupancy (e.g. High Rise, Covered Mall): -

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I/A I/B II/A II/B III/A (III/B) IV/HT V/A V/B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: Ø HR South: Ø HR East: Ø HR West: Ø HR

E. Mixed Occupancies: Y Nonseparated Uses: N

F: Sprinklers:

Required: Y Provided: N Type of Sprinkler System: -

G: Number of Stories: 2 Building Height: 21'-0"

H: Actual Area per Floor (square feet): 10,765

I: Tabular Area: A-3: (9,500), B: (19,000)

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t\, I_f}{100}\right] + \left[\frac{A_t\, I_s}{100}\right]$ $\quad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

A-3: A_a= 12,052 I_f= 26.9

B: A_a= 23,395 I_f= 23.1

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$ $\quad \frac{7,131}{12,052} + \frac{3,634}{23,395} = 0.74 \leq 1$

c) Total Allowable Area for:

1) One Story: 35,447
2) Two Story: $A_a(2)$ 23,395
3) Three Story: $A_a(3)$ N/A

d) Unlimited Area Building: Yes ___ No X Code Section: ___

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	2	TBL. 720	Floors - Ceiling Floors	Ø	
Interior Bearing Walls	Ø		Roofs - Ceiling Roofs	Ø	
Exterior Non-Bearing Walls	Ø		Exterior Doors and Windows	N/A	
Structural Frame	Ø		Shaft Enclosures	N/A	
Partitions - Permanent	Ø		Fire Walls	N/A	
Fire Barriers	Ø		Fire Partitions	1	U419
			Smoke Partitions	N/A	

L. Design Occupant Load: A-3: (367), B: (89)

Exit Width Required: 92" Exit Width Provided: 144"

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) 5 (f) 2 Provided (m) 5 (f) 1
b) Lavatories - Required (m) 4 (f) 2 Provided (m) 2 (f) 1
c) Bath Tubs or Showers: 3m, 1f
d) Drinking Fountains: 1 Service Sinks: 1

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through II - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.

CODE ANALYSIS LEGEND

EXIT 166 OCC. 3'-0"R 4'-0"P — (LOCATION SHOWN BY LARGE ARROW) MAXIMUM OCCUPANT LOAD THRU EXIT; MINIMUM REQUIRED EXIT WIDTH; EXIT WIDTH PROVIDED

ONE-HOUR RATED CORRIDOR (FIRE PARTITION)

ONE-HOUR RATED WALL (FIRE BARRIER)

TWO-HOUR OCCUPANCY SEPARATION (FIRE BARRIER)

GENERAL PATH OF EGRESS

ACCESSIBLE PATH TO SAFE DISPERSAL AREA OR PUBLIC WAY

ACCESSIBLE ELEMENT

FE1 — NON-RATED, BRACKET MOUNTED FIRE EXTINGUISHER

FE2 — NON-RATED, SURFACE MOUNTED FIRE EXTINGUISHER

FE3 — NON-RATED, SEMI-RECESSED FIRE EXTINGUISHER

FE4 — FIRE RATED, SEMI-RECESSED FIRE EXTINGUISHER

* — ROOMS WITH AN OCCUPANT LOAD OF 100 OR MORE SHALL HAVE TWO EXITS AND ARE REQUIRED TO HAVE PANIC HARDWARE (IBC 2006 SECTION 1008.1.9)

E 19 — OCCUPANCY LOAD; OCCUPANCY GROUP

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
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CHK'D BY: CDJ
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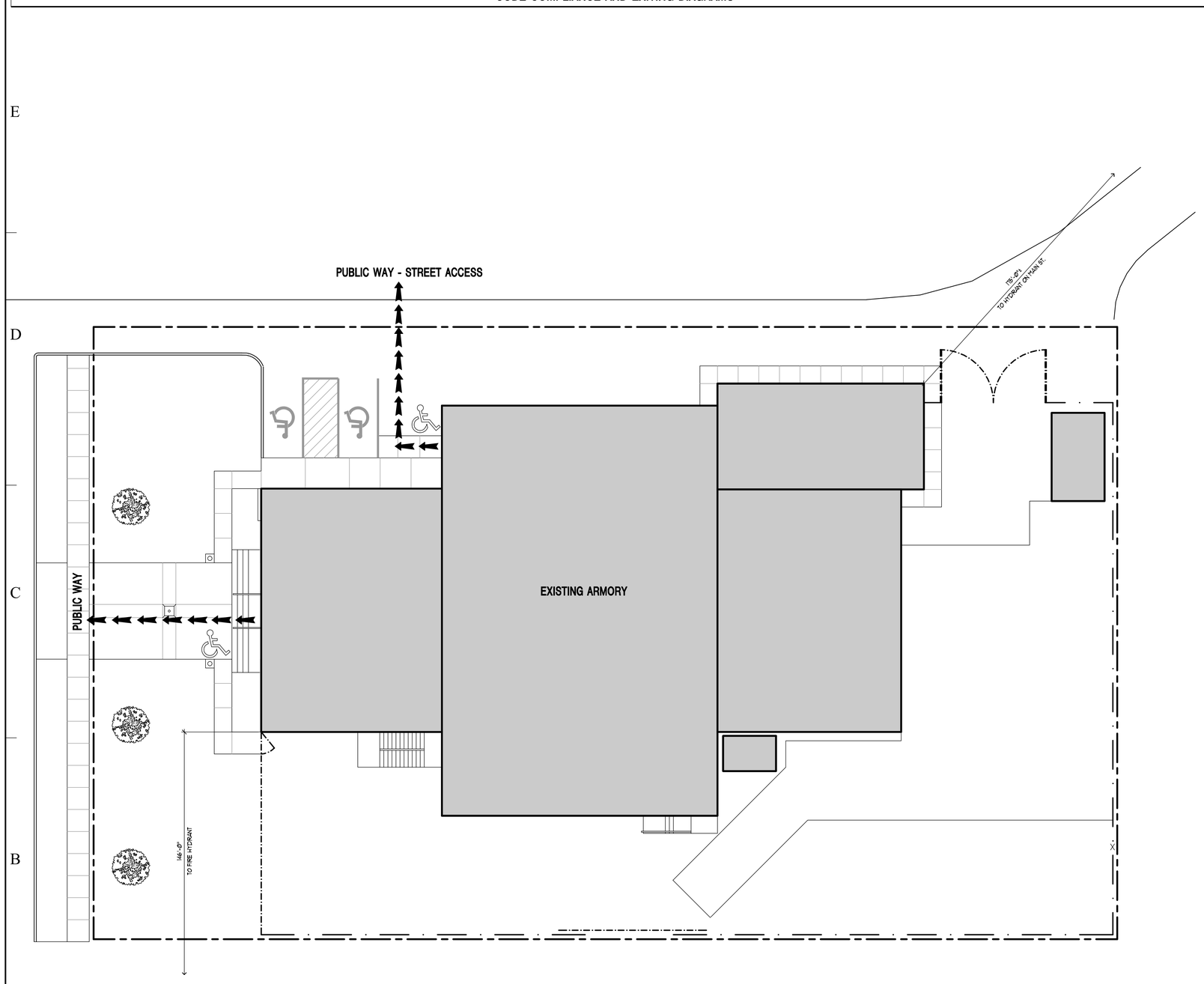
SHEET TITLE
CODE ANALYSIS

SHEET NUMBER
G-003

CODE COMPLIANCE AND EXITING DIAGRAMS



SITE PLAN - CODE ANALYSIS

SCALE: NTS

EXIT 166 OCC. 3'-0"R 4'-0"P	(LOCATION SHOWN BY LARGE ARROW) MAXIMUM OCCUPANT LOAD THRU EXIT; MINIMUM REQUIRED EXIT WIDTH; EXIT WIDTH PROVIDED
	ONE-HOUR RATED CORRIDOR (FIRE PARTITION)
	ONE-HOUR RATED WALL (FIRE BARRIER)
	TWO-HOUR OCCUPANCY SEPARATION (FIRE BARRIER)
	GENERAL PATH OF EGRESS
	ACCESSIBLE PATH TO SAFE DISPERSAL AREA OR PUBLIC WAY
	ACCESSIBLE ELEMENT
FE1	NON-RATED, BRACKET MOUNTED FIRE EXTINGUISHER
FE2	NON-RATED, SURFACE MOUNTED FIRE EXTINGUISHER
FE3	NON-RATED, SEMI-RECESSED FIRE EXTINGUISHER
FE4	FIRE RATED, SEMI-RECESSED FIRE EXTINGUISHER
*	ROOMS WITH AN OCCUPANT LOAD OF 100 OR MORE SHALL HAVE TWO EXITS AND ARE REQUIRED TO HAVE PANIC HARDWARE (IBC 2006 SECTION 1008.1.9)
E 19	OCCUPANCY LOAD; OCCUPANCY GROUP

OPT. #2 - MIX OCCUPANCY, SEPARATE USES

Summary Sheet - Table 3410.7 (2006 IBC)

Existing Occupancy: A-3 — Proposed Occupancy: NO CHANGE
Year Building was constructed: 1937 — Number of stories: 1 — Height (ft.): 21
Type of construction: III-B — Area per floor: 7,131
Percentage of open perimeter: 26.9 % — Percentage of height reduction: N/A %
Completely suppressed: Yes X No — Corridor wall rating: 1-HR.
Compartmentation: Yes X No — Required door closers: Yes X No
Fire-resistance rating of vertical opening enclosures
Type of HVAC system: G.A.S. FORCED AIR, SERVING NUMBER OF FLOORS - 1
Automatic fire detection: Yes X No — Type and location: Y - SEE ELEC.
Fire alarm system: Yes X No — Type: Y - SEE ELEC.
Smoke control: Yes No X — Type: Y - SEE ELEC.
Automatic fire detection: Yes No X — Type: N/A
Adequate exit routes: Yes X No — Dead ends: Yes No X
Maximum exit access travel distance: 87' — Elevator controls: Yes No X
Means of egress emergency lighting: Yes X No — Mixed occupancies: Yes X No

SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)
3410.6.1 Building Height	2.72	2.72	2.72
3410.6.2 Building Area	4.1	4.1	4.1
3410.6.3 Compartmentation	9.5	9.5	9.5
3410.6.4 Tenant and Dwelling Unit Separations	Ø	Ø	Ø
3410.6.5 Corridor Walls	Ø	Ø	Ø
3410.6.6 Vertical Openings	Ø	Ø	Ø
3410.6.7 HVAC Systems	5	5	5
3410.6.8 Auto. Fire Detection	Ø	Ø	Ø
3410.6.9 Fire Alarm System	Ø	Ø	Ø
3410.6.10 Smoke control	****	Ø	Ø
3410.6.11 Means of Egress	****	10	10
3410.6.12 Dead Ends	****	2	2
3410.6.13 Max. Exit Access Travel Distance	****	14.5	14.5
3410.6.14 Elevator Control	Ø	Ø	Ø
3410.6.15 Means of Egress Emergency Lighting	****	Ø	Ø
3410.6.16 Mixed Occupancies	Ø	****	Ø
3410.6.17 Automatic Sprinklers	-3	÷2 = -1.5	-3
3410.6.18 Incidental Use	Ø	Ø	Ø
Building Score - Total Value	18.3		

**** No applicable value to be inserted.

Evaluation Formulas - Table 3410.9 (2006 IBC)

FORMULA	T.3410.7		T.3410.8		SCORE	PASS	FAIL
FS-MFS ≥ 0	18.3	(FS) -	18	(MFS) =	3	X	
ME-MME ≥ 0	51.28	(ME) -	29	(MME) =	22.3	X	
GS-MGS ≥ 0	49.78	(GS) -	29	(MGS) =	20.8	X	

a.FS = Fire Safety; ME = Means of Egress; GS = General Safety
MFS = Mandatory Fire Safety; MME = Mandatory Means of Egress; MGS = Mandatory General Safety

Existing Occupancy: B (MAIN FLR.) — Proposed Occupancy: NO CHANGE
Year Building was constructed: 1937, 1981 — Number of stories: 2 — Height (ft.): 18
Type of construction: III-B — Area per floor: 3,634
Percentage of open perimeter: 23.1 % — Percentage of height reduction: N/A %
Completely suppressed: Yes X No — Corridor wall rating: 1-HR.
Compartmentation: Yes X No — Required door closers: Yes X No
Fire-resistance rating of vertical opening enclosures
Type of HVAC system: G.A.S. FORCED AIR, SERVING NUMBER OF FLOORS - 1
Automatic fire detection: Yes X No — Type and location: Y - SEE ELEC.
Fire alarm system: Yes X No — Type: Y - SEE ELEC.
Smoke control: Yes No X — Type: Y - SEE ELEC.
Automatic fire detection: Yes No X — Type: N/A
Adequate exit routes: Yes X No — Dead ends: Yes No X
Maximum exit access travel distance: 87' — Elevator controls: Yes No X
Means of egress emergency lighting: Yes X No — Mixed occupancies: Yes X No

SAFETY PARAMETERS	FIRE SAFETY (FS)	MEANS OF EGRESS (ME)	GENERAL SAFETY (GS)
3410.6.1 Building Height	2.96	2.96	2.96
3410.6.2 Building Area	12	12	12
3410.6.3 Compartmentation	18	18	18
3410.6.4 Tenant and Dwelling Unit Separations	Ø	Ø	Ø
3410.6.5 Corridor Walls	Ø	Ø	Ø
3410.6.6 Vertical Openings	Ø	Ø	Ø
3410.6.7 HVAC Systems	Ø	Ø	Ø
3410.6.8 Auto. Fire Detection	Ø	Ø	Ø
3410.6.9 Fire Alarm System	Ø	Ø	Ø
3410.6.10 Smoke control	****	Ø	Ø
3410.6.11 Means of Egress	****	Ø	Ø
3410.6.12 Dead Ends	****	2	2
3410.6.13 Max. Exit Access Travel Distance	****	11.6	11.6
3410.6.14 Elevator Control	-2	-2	-2
3410.6.15 Means of Egress Emergency Lighting	****	Ø	Ø
3410.6.16 Mixed Occupancies	Ø	****	Ø
3410.6.17 Automatic Sprinklers	Ø	÷2 = Ø	Ø
3410.6.18 Incidental Use	Ø	Ø	Ø
Building Score - Total Value	30.9	44.6	44.6

**** No applicable value to be inserted.

Evaluation Formulas - Table 3410.9 (2006 IBC)

FORMULA	T.3410.7		T.3410.8		SCORE	PASS	FAIL
FS-MFS ≥ 0	30.9	(FS) -	24	(MFS) =	6.9	X	
ME-MME ≥ 0	44.6	(ME) -	34	(MME) =	10.6	X	
GS-MGS ≥ 0	44.6	(GS) -	34	(MGS) =	10.6	X	

a.FS = Fire Safety; ME = Means of Egress; GS = General Safety
MFS = Mandatory Fire Safety; MME = Mandatory Means of Egress; MGS = Mandatory General Safety

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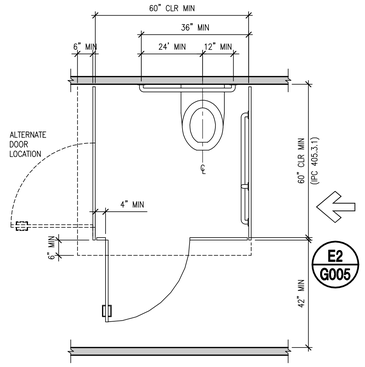
SHEET TITLE
CODE ANALYSIS

SHEET NUMBER
G-004

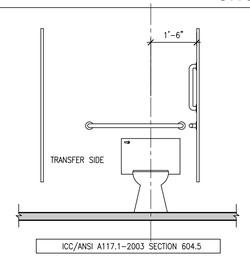
SHOWER/BATH DETAILS



TOE CLEARANCE. THE FRONT AND ONE SIDE OF THE COMPARTMENT SHALL HAVE A TOE CLEARANCE THAT EXTENDS AT LEAST 6" BEYOND THE TOILET PARTITION. THE FRONT CLEARANCE IS NOT REQUIRED FOR COMPARTMENTS THAT ARE GREATER THAN 62" IN DEPTH. THE SIDE CLEARANCE IS NOT REQUIRED FOR COMPARTMENTS THAT ARE GREATER THAN 65 " IN WIDTH.

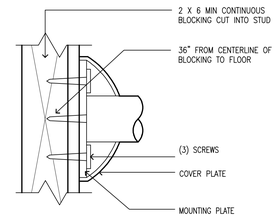
NOT USED — E1 G005
SCALE: NTS + 1'-0"

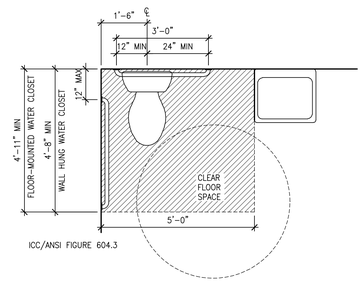
ACCESSIBLE COMPARTMENTS — E2 G005
SCALE: 1/2" + 1'-0" DA-AC-5@



ICC/ANSI A117.1-2003 SECTION 604.5

ACCESSIBLE COMPARTMENTS — E3 G005
SCALE: 1/2" + 1'-0" DA-AC-5@





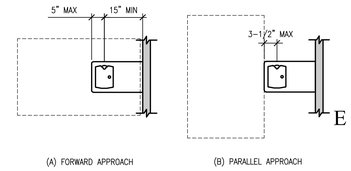
ICC/ANSI FIGURE 604.3

604.3.2 OVERLAP. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COST HOOKS, SHELVES ACCESSIB;E ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

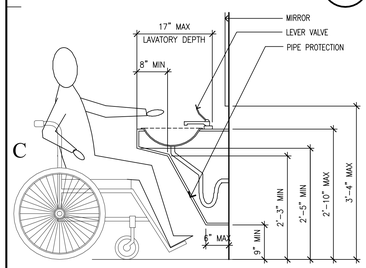
ICC/ANSI A117.1-2003 SECTION 604

WATER CLOSET - CLEAR FLOOR SPACE — D5 G005
SCALE: 1/2" + 1'-0"



ICC/ANSI A117.1-2003 SECTION 602.5

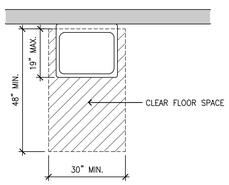
DRINKING FOUNTAIN - SPOUT LOCATION — E6 G005
SCALE: 1/2" + 1'-0" DA-AC-4@



ICC/ANSI A117.1-2003 SECTION 606.2

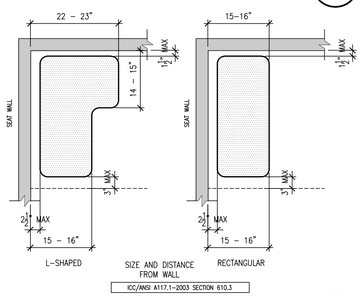
NOT USED — D1 G005
SCALE: NTS + 1'-0"

ACCESSIBLE COMPARTMENTS — D2 G005
SCALE: 1/2" + 1'-0" DA-AC-5@



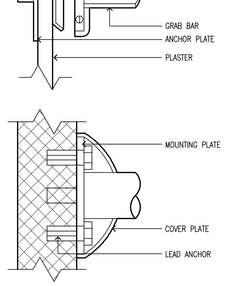
ADAAG SECTION 4.19.3
ICC/ANSI A117.1-2003 SECTION 606.2

LAVATORY - CLEAR FLOOR SPACE — C2 G005
SCALE: 1/2" + 1'-0" DA-AC-27

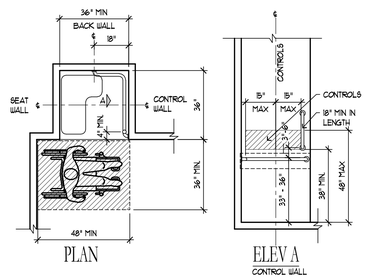


ICC/ANSI A117.1-2003 SECTION 610.3

ACCESSIBLE SHOWER BENCH — C3 G005
SCALE: 3/4" + 1'-0" DA-AC-29



BATH ACCESSORY MOUNTING DETAIL — C4 G005
SCALE: 1-1/2" 1'-0" DA-AC-B



ADA TRANSFER SHOWER
SCALE: NTS + 1'-0" (TYPICAL NOTES) **C5 G005**

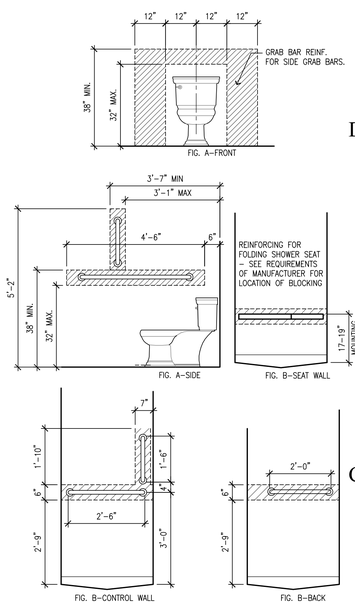
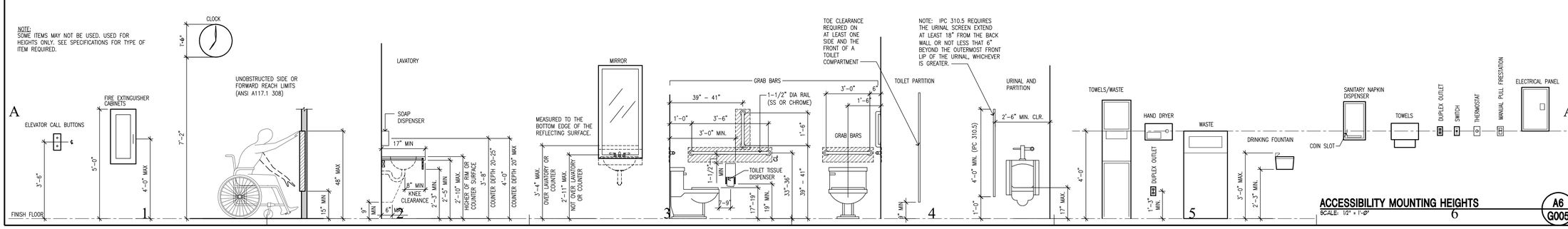


FIG. A- LOCATION OF GRAB BAR REINFORCEMENTS FOR WATER CLOSET
FIG. B- LOCATION OF GRAB BAR REINFORCEMENTS FOR TRANSFER SHOWER

TYP. REINF WALL FOR GRAB BARS — B6 G005
SCALE: 1/2" + 1'-0" DA-AC-21

NOTE:
SOME ITEMS MAY NOT BE USED, USED FOR HEIGHTS ONLY. SEE SPECIFICATIONS FOR TYPE OF ITEM REQUIRED.



ACCESSIBILITY MOUNTING HEIGHTS — A6 G005
SCALE: 1/2" + 1'-0"

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CAD PROJECT NO: 09067
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CHK'D BY: CDJ
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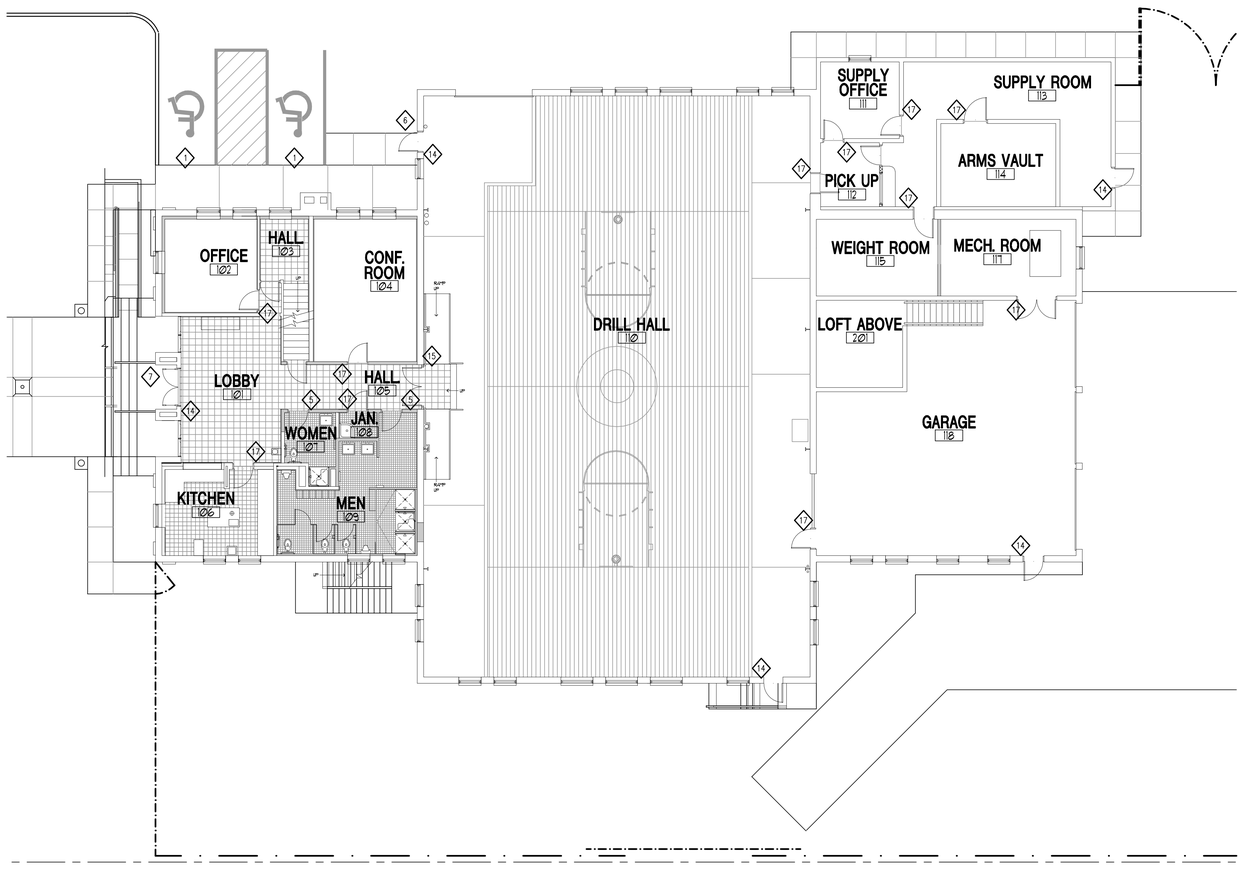
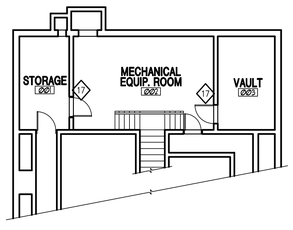
SHEET TITLE
ACCESSIBLE BATHROOM DETAILS

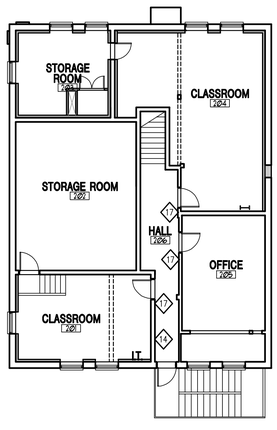
SHEET NUMBER
G-005



MAIN LEVEL SIGNAGE PLAN
SCALE: NTS



LOWER LEVEL SIGNAGE PLAN
SCALE: NTS



UPPER LEVEL SIGNAGE PLAN
SCALE: NTS

SIGNAGE PLAN GENERAL NOTES

1. PROVIDE SIGNAGE TYPE AND TEXT AS SHOWN ON SIGNAGE SCHEDULE AND IN SPECIFICATIONS. SEE SHEET G-001.
2. PROVIDE SHOP DRAWINGS SHOWING EACH SIGN TYPE, TEXT, AND MOUNTING LOCATION.
3. SIGNAGE DESIGN, MATERIALS, COLORS, ETC. TO BE SELECTED BY ARCHITECT.

1 SIGN SYMBOL - NUMBER INDICATES SIGN TYPE, SEE SIGN TYPES ON SHEET G-001.

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CAD DWG FILE:
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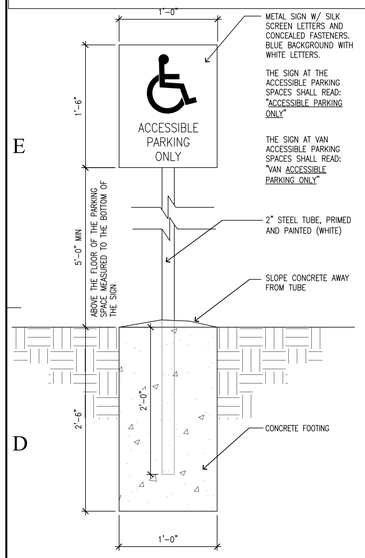
SHEET TITLE
SIGNAGE PLANS

SHEET NUMBER
G-006

SIGNAGE



METAL SIGN W/ SILK SCREEN LETTERS AND CONCEALED FASTENERS. BLUE BACKGROUND WITH WHITE LETTERS.

THE SIGN AT THE ACCESSIBLE PARKING SPACES SHALL READ: "ACCESSIBLE PARKING ONLY"

THE SIGN AT VAN ACCESSIBLE PARKING SPACES SHALL READ: "VAN ACCESSIBLE PARKING ONLY"

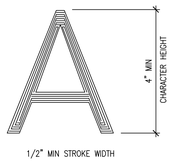
2" STEEL TUBE, PRIMED AND PAINTED (WHITE)

SLOPE CONCRETE AWAY FROM TUBE

CONCRETE FOOTING

POST MOUNTED

TYPE 1
ACCESSIBLE PARKING SIGN
SCALE: 1-1/2" = 1'-0"
D1 G007



IBC 2006 501.2 ADDRESS NUMBERS. BUILDING SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERALS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH.

NO TACTILE OR BRAILLE CHARACTERS REQUIRED

TYPE 4
BUILDING ADDRESS
SCALE: 3" = 1'-0"
E2 G007

ELEVATION

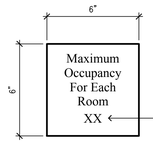
IBC 2006 1110.1 SIGNS. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

SEE THE TABLE 5/A8.4 FOR ELEMENTS REQUIRING THIS SYMBOL.

1110.2 DIRECTIONAL SIGNAGE. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE LOCATIONS LISTED IN TABLE 5/A8.4. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

NO TACTILE OR BRAILLE CHARACTERS ARE REQUIRED.

TYPE 7
NON-ACCESSIBLE ELEMENTS PLAQUE
SCALE: 3" = 1'-0"
E3 G007



ELEVATION

IBC 2006 1004.3 POSTING OF OCCUPANT LOAD. EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT.

NO TACTILE OR BRAILLE CHARACTERS REQUIRED.

SEE SIGNAGE SCHEDULE FOR OCCUPANCY NUMBER

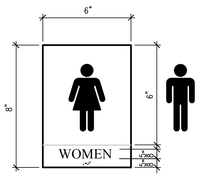
TYPE 15
OCCUPANCY PLAQUE
SCALE: 3" = 1'-0"
E4 G007

	SIGN DESCRIPTION
X	BUILDING ADDRESS NUMBERS (IBC 501.2)
X	EXIT SIGNS (IBC: 1011)
–	STAIRWAY FLOOR NUMBERS (IBC 1020.1.6)
X	TOILET ROOMS (IBC 2902.5)
X	ACCESSIBLE PARKING SPACES (IBC 1110.1)
–	ACCESSIBLE PASSENGER LOADING ZONES (IBC 1110.1)
–	AREAS OF REFUGE AND AREAS OF RESCUE ASSISTANCE (IBC 1110.1 AND 1110.3)
–	ACCESSIBLE MULTIPLE SINGLE-USER TOILET OR BATHING ROOMS CLUSTERED (IBC 1110.1)
X	ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE (IBC 1110.1)
–	ACCESSIBLE CHECKOUT AISLES WHERE NOT ALL ARE ACCESSIBLE (IBC 1110.1)
X	UNISEX TOILET AND BATHING ROOMS (IBC 1110)
–	ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS (IBC 1110.1)
X	INACCESSIBLE BUILDING ENTRANCES – DIRECTIONAL SIGNAGE (IBC 1110.2)
X	INACCESSIBLE PUBLIC TOILET / BATHING FACITILITIES – DIRECTIONAL SIGNAGE (IBC 1110.2)
X	ELEVATORS NOT SERVING AN ACCESSIBLE ROUTE (IBC 1110.2)
–	AT TOILET AND BATHING ROOM DIRECTIONAL SIGNS TO UNISEX ROOMS (IBC 1110.2)

	SIGN DESCRIPTION
–	EXITS AND ELEVATORS SERVING A REQUIRED ACCESSIBLE SPACE BUT NOT PROVIDING AN APPROVED ACCESSIBLE MEANS OF EGRESS (IBC 1110.2)
–	SIGNAGE FOR ASSISTIVE LISTENING DEVICES IN ASSEMBLY AREAS (IBC 1110.3)
X	AT DOORS TO EGRESS STAIRWAYS, EXIT PASSAGEWAY AND EXIT DISCHARGE (IBC 1110.3)
–	AT AREAS OF REFUGE (IBC 1007.6.3 / 1007.6.5)
–	AT AREAS OF ASSISTED RESCUE (IBC 1007.8.3)
X	* DIRECTIONAL SIGN ON DISCHARGE IDENTIFICATION BARRIERS (IBC: 1020.1.5)
X	POSTING OF OCCUPANCY LOAD IN ASSEMBLY OCCUPANCY (IBC: 1004.3)
X	IDENTIFICATION OF FIRE ALARM PANEL (BUILDING DEPARTMENT REQUIREMENT)
X	IDENTIFICATION OF FIRE RISER ROOM (BUILDING DEPARTMENT REQUIREMENT)
X	IDENTIFICATION OF ELECTRICAL CONTROL PANEL ROOMS (IFC 605.3.1)
–	IDENTIFICATION OF FIRE DOORS AND SMOKE DOORS (IFC 703.2.1)
–	IDENTIFICATION OF FLAMMABLE LIQUIDS OR HAZARDOUS STORAGE (IFC 3403.5)
–	IDENTIFICATION OF STORAGE TANKS OF HAZARDOUS MATERIALS (IFC 3404.2.3)

REFER TO SIGNAGE SCHEDULE IN THE APPENDIX OF THE SPECIFICATIONS FOR THE SPECIFIC TEXT, QUANTITY, LOCATION, AND NUMBERING OF SIGNS.
* NOT IN SIGNAGE PACKAGE

CODE REQUIRED SIGNAGE CHECKLIST
SCALE: FULL 1'-0" DT-SG-05
E6 G007



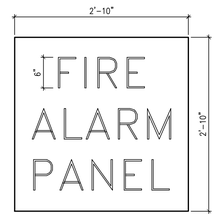
ELEVATION

IBC 2006 2902.5 SIGNAGE. A LEGIBLE SIGN DESIGNATING THE SEX SHALL BE PROVIDED IN A READILY VISIBLE LOCATION NEAR THE ENTRANCE TO EACH TOILET FACILITY. SIGNS FOR ACCESSIBLE TOILET FACILITIES SHALL COMPLY WITH ICC/ANSI A117.1.

TACTILE AND BRAILLE CHARACTERS REQUIRED (ADAAG 4.1.3 (16))

NOTE: IF NOT ALL TOILET ROOMS ARE ACCESSIBLE, THE INTERNATIONAL SYMBOL OF ACCESSIBILITY MUST BE PROVIDED AT THE ACCESSIBLE TOILET ROOMS AND THOSE TOILET ROOMS THAT ARE NOT ACCESSIBLE WILL REQUIRE DIRECTIONAL SIGNAGE INDICATING THE LOCATION OF THE NEAREST ACCESSIBLE TOILET ROOMS.

TYPE 5
RESTROOM PLAQUES
SCALE: 3" = 1'-0"
D2 G007



ELEVATION

PROVIDE A SIGN ON THE DOOR TO THE ROOM LEADING TO THE MAIN FIRE ALARM PANEL WITH THE TEXT "FIRE ALARM PANEL."

THE LETTERS SHALL BE 6 INCHES HIGH AND SHALL BE COLORED BRIGHT RED AND ON CONTRASTING BACKGROUND

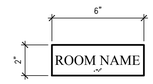
3/4" MIN STROKE WIDTH

NO TACTILE OR BRAILLE CHARACTERS REQUIRED

(REQUIREMENT OF SALT LAKE CITY BUILDING DEPARTMENT – FIRE MARSHAL, VERIFY REQUIREMENT WITH REGULATING JURISDICTION OF PROJECT)

NO TACTILE CHARACTERS REQUIRED
NO BRAILLE REQUIRED

TYPE 11
FIRE ALARM PANEL PLAQUE
SCALE: 1" = 1'-0"
D3 G007



ELEVATION

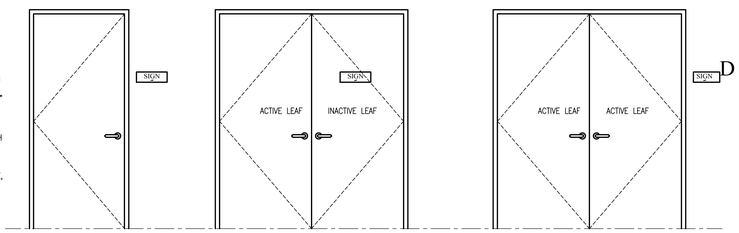
ADAAG 4.30 TACTILE SIGNAGE. RAISED AND BRAILLE CHARACTERS ARE REQUIRED ON SIGNS THAT "DESIGNATE PERMANENT ROOMS AND SPACES" INCLUDING RESTROOMS, EXITS, ROOMS BY NUMBER.

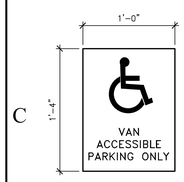
TACTILE CHARACTERS REQUIRED
BRAILLE REQUIRED.

IFC 2006 605.3.1 LABELING. DOORS INTO ELECTRICAL PANEL ROOM S SHALL BE MARKED WITH A PLAINLY VISIBLE AND LEGIBLE SIGN STATING "ELECTRICAL ROOM" OR SIMILAR APPROVED WORDING.

NOTE:
ADAAG: TEMPORARY SIGNS, WHICH ARE EXEMPT INCLUDE IDENTIFICATION OF TENANCIES, NAMES AND TITLES OF ROOM OCCUPANTS, NON-FIXED SIGNAGE, AND TEMPORARY POSTINGS. TEMPORARY SIGNS ARE NOT REQUIRED TO HAVE TACTILE OR BRAILLE CHARACTERS.

TYPE 17
ROOM IDENTIFICATION PLAQUE
SCALE: 3" = 1'-0"
D4 G007





ICC/ANSI A117.1 2003

502.7 IDENTIFICATION. WHERE ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS, THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY."

SUCH SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FLOOR OF THE PARKING SPACE, MEASURED TO THE BOTTOM OF THE SIGN.

NO TACTILE OR BRAILLE CHARACTERS REQUIRED.

SEE SIGNAGE TYPE 1 FOR POST MOUNTED DETAILS.

TYPE 2
ACCESSIBLE PARKING PLAQUE
SCALE: 1-1/2" = 1'-0"
C1 G007

ELEVATION

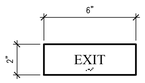
IBC 2006 1110.1 SIGNS. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

SEE THE TABLE 5/A8.4 FOR ELEMENTS REQUIRING THIS SYMBOL.

1110.2 DIRECTIONAL SIGNAGE. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE LOCATIONS LISTED IN TABLE 5/A8.4. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

NO TACTILE OR BRAILLE CHARACTERS ARE REQUIRED.

TYPE 6
ACCESSIBLE ELEMENTS PLAQUE
SCALE: 3" = 1'-0"
C2 G007



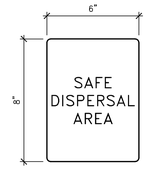
ELEVATION

IBC 2006 1011.3 TACTILE EXIT SIGNS. A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE.

TACTILE CHARACTERS REQUIRED
BRAILLE REQUIRED.

NOTE: ILLUMINATED EXIT SIGNS ARE NOT COVERED BY THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS – SEE ELECTRICAL DRAWINGS FOR ILLUMINATED EXIT SIGN FOR SPECIFICATIONS AND LOCATIONS.

TYPE 14
EXIT PLAQUE
SCALE: 3" = 1'-0"
C3 G007



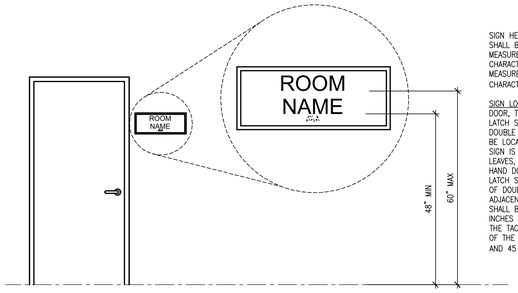
ELEVATION

IBC 2006 1024.6 MEANS OF EGRESS: THE AREA SHALL BE PERMANENTLY MAINTAINED AND IDENTIFIED AS A SAFE DISPERSAL AREA.

NO TACTILE AND BRAILLE CHARACTERS REQUIRED.

SEE D1/G007 FOR TYPICAL SIGN MOUNTING.

TYPE 18
SAFE DISPERSAL AREA SIGN
SCALE: 3" = 1'-0"
C4 G007



SIGN HEIGHT ABOVE THE FLOOR. TACTILE CHARACTERS SHALL BE 48 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER. (ICC/ANSI 703.3.10)

SIGN LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS,, IS PROVIDED BEYOND THE ARC OF THE ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. (ICC/ANSI 703.3.11)

SIGNAGE MOUNTING LOCATIONS
SCALE: 1/2" = 1'-0" DT-SG-01
C6 G007

ACCESSIBLE SIGNAGE

BUILDING SIGNAGE FOR NEW CONSTRUCTION SEE ADAAG SECTION 4.30.

1. ACCESSIBLE SIGNS SHOULD IDENTIFY PERMANENT ROOMS AND SPACES, INCLUDING ROOM NUMBERS, EMERGENCY EXITS, AND TOILET FACILITIES. IF ROOM NUMBERS ARE NOT USED, SIGNS SUCH AS "CAFETERIA" MUST BE ACCESSIBLE.

   A. LETTERS AND NUMERALS: RAISED 1/32 IN. MINIMUM, UPPERCASE, SANS SERIF, 5/8 TO 2 IN. IN HEIGHT, AND ACCOMPANIED BY GRADE 2 BRAILLE.

   B. PICTOGRAM BORDERS SHOULD BE AT LEAST 6 IN. HIGH.

   C. SURFACES SHOULD HAVE A NONGLARE FINISH; LEVEL OF SHEEN MUST BE "EGGSHELL" OR LESS.

   D. PROVIDE CONTRAST BETWEEN THE CHARACTERS AND BACKGROUND.

   E. MOUNTING: SEE DETAIL 11/A8.2 FOR MOUNTING HEIGHT AND LOCATION.

2. DIRECTIONAL AND INFORMATIONAL SIGNS FOR PERMANENT FUNCTIONAL SPACES (SUCH AS SIGNS TO AUDITORIUMS OR ELEVATORS) SHOULD BE ACCESSIBLE. A. CHARACTER PROPORTIONS SHOULD COMPLY WITH ADAAG 4.30.2. B. CHARACTERS SHOULD BE AT LEAST 3 IN. HIGH; INCREASE CHARACTER HEIGHT AS VIEWING DISTANCE INCREASES.

3. IDENTIFY SUCH ACCESSIBLE FEATURES AS ASSISTIVE LISTENING DEVICES, PARKING, AND TEXT TELEPHONES. WHEN NOT ALL SUCH FEATURES ARE ACCESSIBLE, IDENTIFY THE ACCESSIBLE ONES (E.G., TOILET ROOMS AND PARKING) AND PROVIDE DIRECTIONAL SIGNAGE FROM INACCESSIBLE ONES. USE PICTOGRAMS AT LEAST 6 IN. HIGH ACCOMPANIED BY A VERBAL DESCRIPTION.

ACCESSIBLE SIGNAGE NOTES
SCALE: 1'-0"\ 1'-0"
B4 G007

ICC/ANSI A117.1-2003
VISUAL CHARACTER HEIGHT
TABLE 703.2.4

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	HORIZONTAL VIEWING DISTANCE
40 INCHES TO LESS THAN OR EQUAL TO 70 INCHES	LESS THAN 6 FEET	5/8 INCH
	6 FEET AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 6 FEET
GREATER THAN 70 INCHES TO LESS THAN OR EQUAL TO 120 INCHES	LESS THAN 15 FEET	2 INCHES
	15 FEET AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 15 FEET
GREATER THAN 120 INCHES	LESS THAN 21 FEET	2 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET

703.3.5 CHARACTER HEIGHT. THE UPPERCASE LETTER "I" SHALL BE USED TO DETERMINE THE ALLOWABLE HEIGHT OF ALL CHARACTERS OF A FONT. THE HEIGHT OF THE UPPERCASE LETTER "I" OF THE FONT, MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER, SHALL BE 5/8 INCH MINIMUM, AND 2 INCHES MAXIMUM.

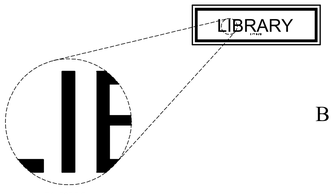


FIG 703.3.5

VISUAL CHARACTER HEIGHT
SCALE: FULL 1'-0" G1-SG-03
B6 G007

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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SHEET TITLE
SIGNAGE DETAILS

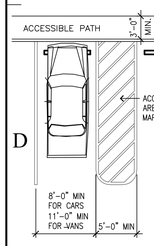
SHEET NUMBER
G-007

ACCESSIBLE ROUTE

TOTAL PARKING SPACES PROVIDED	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2% OF TOTAL
1001 AND OVER	20, PLUS ONE FOR EACH 100, OR FRACTION THEREOF, OVER 1000

ACCESSIBLE PARKING SPACES — E1 G008

SCALE: 12" = 1'-0" FIG 58A



NOTE: PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT TO EXCEED 1:50 (2%) IN ALL DIRECTIONS.

SIDEWALK SLOPES NOT TO EXCEED 1:20 IN DIRECTION OF TRAVEL.

A MINIMUM OF ONE PARKING SPACE AT EACH SITE FACILITY INCLUDING SALES/RENTAL OFFICE, RECREATION FACILITIES, MAIL KIOSK, ETC.

VAN PARKING SPACES SHALL BE PERMITTED TO BE 96 INCHES IN WIDTH WHERE THE ADJACENT ACCESS AISLE IS 96 INCHES IN WIDTH.

DIMENSIONS OF PARKING SPACES

ICC/ANSI A117.1–2003 SECTION 502

ACCESSIBLE PARKING SPACES — D1 G008

SCALE: 1/8" = 1'-0" DA-AC-31

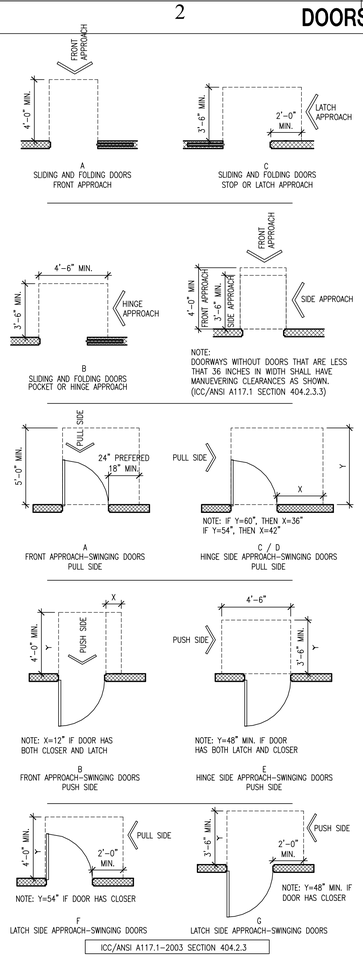
NOT USED — C1 G008

SCALE: NTS = 1'-0"

NOT USED — B1 G008

SCALE: NTS = 1'-0"

DOORS/CLEARANCE



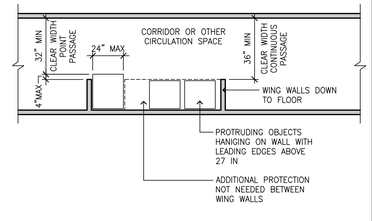
ICC/ANSI A117.1–2003 SECTION 404.2.3

MANUEVERING CLEARANCES — C2 G008

SCALE: 1/4" = 1'-0" DA-AC-14

NOT USED — B2 G008

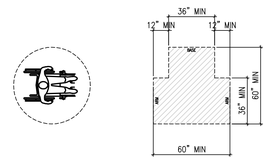
SCALE: NTS = 1'-0"



ICC/ANSI A117.1–2003 SECTION 307

PROTRUDING OBJECTS — E3 G008

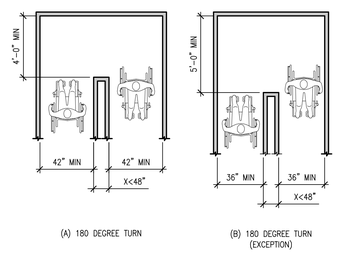
SCALE: 1/4" = 1'-0"



ICC/ANSI A117.1–2003 SECTION 304.3

ACCESSIBLE TURNING SPACE — D3 G008

SCALE: 1/4" = 1'-0" DA-AC-48



ICC/ANSI A117.1–2003 SECTION 403.5.1

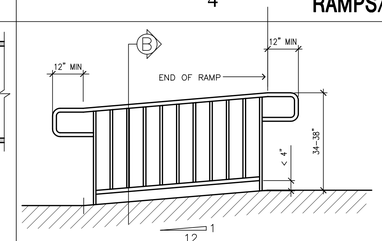
180 DEGREE TURN — C3 G008

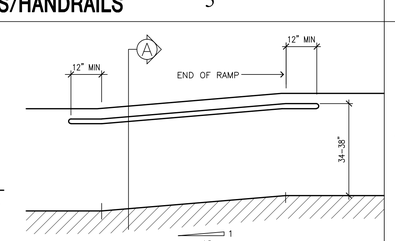
SCALE: 1/4" = 1'-0" DA-AC-38

NOT USED — B3 G008

SCALE: NTS = 1'-0"

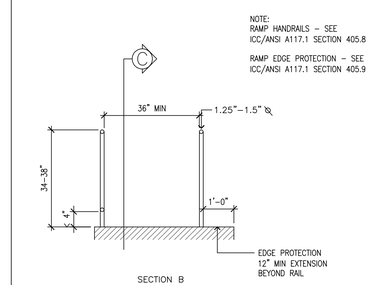
RAMPS/HANDRAILS





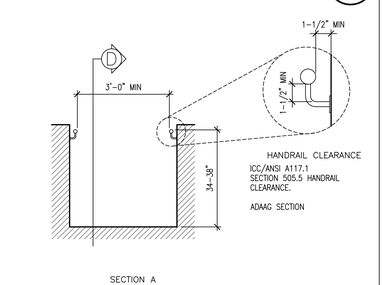
RAMP HANDRAILS (ELEVATIONS) — E5 G008

SCALE: 1/2" = 1'-0" DA-AC-42



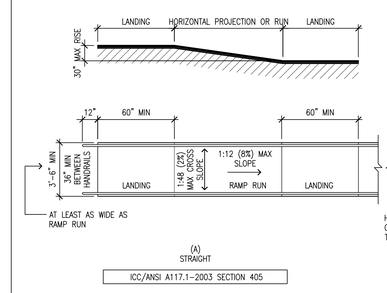
NOTE:
RAMP HANDRAILS – SEE ICC/ANSI A117.1 SECTION 405.8

RAMP EDGE PROTECTION – SEE ICC/ANSI A117.1 SECTION 405.9



RAMP HANDRAILS (SECTIONS) — D5 G008

SCALE: 1/2" = 1'-0"



ICC/ANSI A117.1–2003 SECTION 405

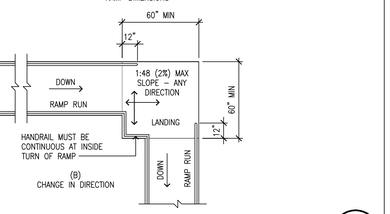
SLOPE	MAXIMUM RISE	MAX. HORIZ. PROJECTION
1:12 TO <1:16	30 INCHES	30 FEET
1:16 TO <1:20	30 INCHES	40 FEET

FIG. 16
COMPONENTS OF A SINGLE RAMP AND SAMPLE RAMP DIMENSIONS

IBC 2006 SECTION 1010 RAMPS.

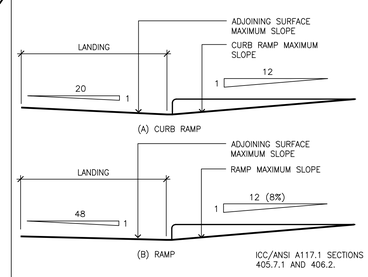
ICC/ANSI A117.1 2003 SECTION 405 RAMPS

ADAAG SECTION 4.8 RAMPS



RAMP DIMENSIONS — C5 G008

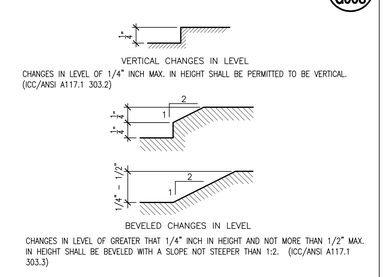
SCALE: 1/4" = 1'-0" DA-AC-41



ICC/ANSI A117.1–2003 SECTIONs 405.7.1 AND 406.2

RAMP AND CURB RAMP SLOPES — B4 G008

SCALE: 6" = 1'-0" DA-AC-45

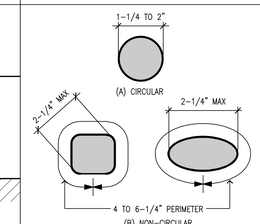


ICC/ANSI A117.1–2003 SECTION 303

CHANGES IN LEVEL — B5 G008

SCALE: 12" = 1'-0" DA-AC-25

STAIRS/HANDRAILS



ICC/ANSI A117.1–2003 SECTION 505.7

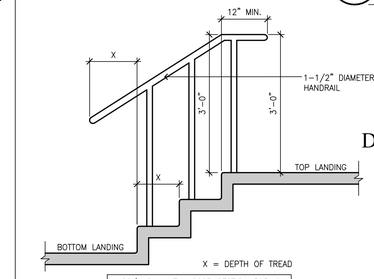
ICC/ANSI A117.1 SECTION 505.7 HANDRAIL CROSS–SECTION.

505.8 SURFACES. HANDRAILS, AND ANY WALL SURFACES ADJACENT TO THEM SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.

505.9 FITTINGS. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

HANDRAIL CROSS-SECTION — E6 G008

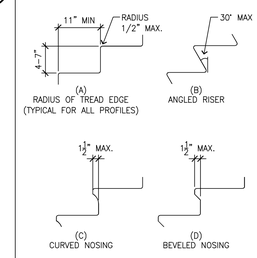
SCALE: 6" = 1'-0" DA-AC-43



ICC/ANSI A117.1–2003 SECTION 505.10

HANDRAIL EXTENSIONS — D6 G008

SCALE: 3/4" = 1'-0" DA-AC-46



ICC/ANSI A117.1–2003 SECTION 504.5

ICC/ANSI A117.1 2003 SECTION 504 STAIRWAYS

504.3 OPEN RISERS. OPEN RISERS ARE NOT PERMITTED

504.4 TREAD SURFACE. STAIR TREADS SHALL HAVE A SLOPE NOT GREATER THAN 1:48

504.5 NOSINGS. THE LEADING 2 INCHES OF THE TREAD SHALL HAVE VISUAL CONTRAST OF DARK–ON–LIGHT OR LIGHT–ON–DARK FROM THE REMAINDER OF THE TREAD.

ACCESSIBLE STAIR NOSINGS — C6 G008

SCALE: 3/4" = 1'-0" DA-AC-36

NOT USED — B6 G008

SCALE: NTS = 1'-0"

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CONSULTANT:

BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	XX-XX-XX	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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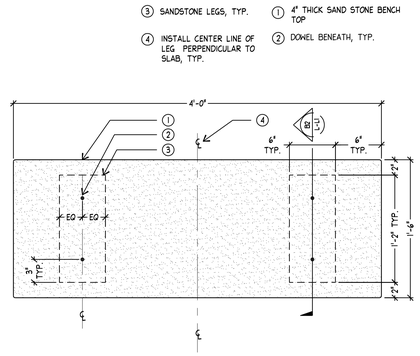
SHEET TITLE

ACCESSIBILITY DETAILS

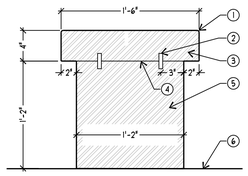
SHEET NUMBER

G-008



③ SANDSTONE LEGS, TYP.
④ INSTALL CENTER LINE OF LEG PERPENDICULAR TO SLAB, TYP.
① 4" THICK SAND STONE BENCH TOP
② DOWEL BENEATH, TYP.

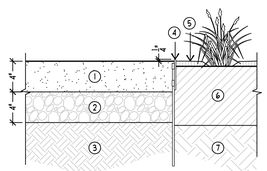
B SAND STONE BENCH ADD ALTERNATE #2
SCALE: 1/8" = 1' PLAN



SIDE SECTION

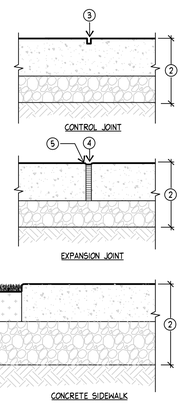
① TOP WITH 1/4" RADIUS (ALL CORNERS), TYP.
② 3" STAINLESS STEEL 1/2" DOWEL EMBEDDED 1-1/2" INTO ADJACENT BENCH SLAB W/ SIMPSON ET EPOXY-TIE ADHESIVE, 2 LOCATIONS
③ 4" THICK SAND STONE, TYP.
④ USE CONSTRUCTION ADHESIVE BETWEEN LEGS AND FOOTING
⑤ SAND STONE 2 LEGS, TYP.
⑥ FINISHED GRADE

B2 SAND STONE BENCH - LEG ADD ALTERNATE #2
SCALE: 1/8" = 1' SECTION



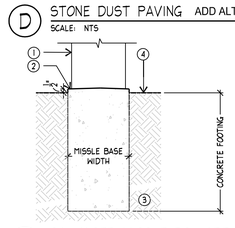
① COMPACTED STONE DUST, SEE SPECS.
② COMPACTED AGGREGATE SUBBASE
③ 95% COMPACTED SUBGRADE PER GEOTECHNICAL RECOMENDATIONS
④ LANDSCAPE EDGING SYSTEM WITH 14" SPIKE
⑤ TOP OF MULCH
⑥ AMENDED TOPSOIL
⑦ UNDISTURBED SUBGRADE

D STONE DUST PAVING ADD ALTERNATE #2
SCALE: NTS SECTION



① FINISH GRADE- 1" BELOW PAVING
② 4" THICK PC CONCRETE PAVEMENT (WITH WW MESH) OVER 4" COMPACTED AGGREGATE BASE OVER COMPACTED SUBGRADE
③ 1/4" WIDE SCORE. (1" DEEP) PLACE AT 5'-0" O.C. OR AS SHOWN (SEE SPECS.)
④ EXPANSION JOINT, EXPANSION JOINT FILLER & CONT. SEALANT AND PLACE AT 25' O.C. OR AS SHOWN
⑤ 1/4" RADIUS

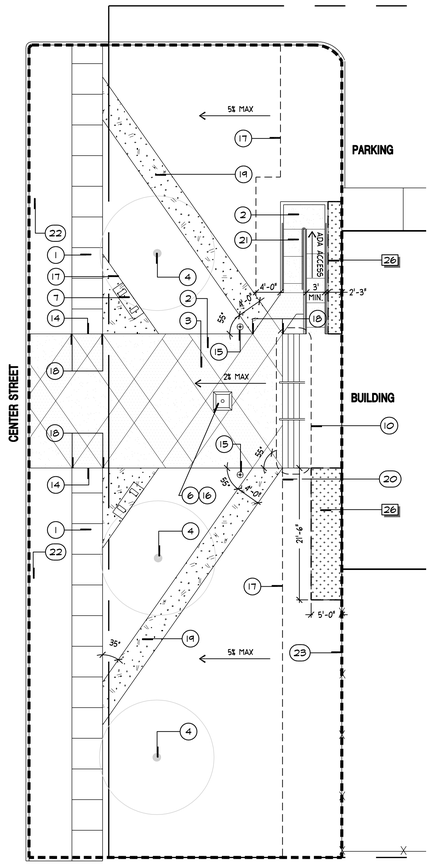
C CONCRETE PAVING AND JOINTS ADD ALTERNATE #2
SCALE: NTS SECTION



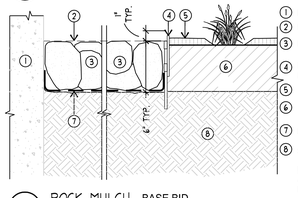
① SALVAGED MISSLE BOLLARD
② CONCRETE FOOTING SLOPED AROUND BASE
③ UNDISTURBED SUBGRADE
④ TOP OF FINISH GRADE

NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY OWNER'S REPRESENTITIVE

E SALVAGED MISSLE BOLLARD FOOTING ADD ALTERNATE #2
SCALE: 1-1/2" = 1'-0" SECTION



A LAYOUT / GRADING PLAN
SCALE: NTS PLAN



① BUILDING FOUNDATION
② FINISH GRADE
③ ROCK MULCH - SEE SPECS.
④ LANDSCAPE EDGING SYSTEM WITH 14" SPIKE
⑤ TOP OF MULCH, IF APPLICABLE
⑥ AMENDED TOPSOIL, IF APPLICABLE
⑦ WEED BARRIER FABRIC
⑧ COMPACTED SUBGRADE

NOTE: CONTRACTOR TO REMOVE AND DISPOSE SOIL NESSCARY FOR ROCK MULCH BED DEPTH.

F ROCK MULCH BASE BID
SCALE: NTS SECTION

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TWO WORKING DAYS BEFORE YOU DIG

LEGEND - DETIAL A

- PROPERTY BOUNDARY LINE
- ROCK MULCH (SEE SHT. L-LI, DTL. A & F)
- LIMIT OF WORK
- LANDSCAPE EDGE ADD ALTERNATE #2
- FLAGPOLE
- SALVAGED MISSILE BOLLARD, ADD ALTERNATE #2 RELOCATED
- BENCH ADD ALTERNATE #2
- CONCRETE PAVING ADD ALTERNATE #2
- CONCRETE PAVING ADD ALTERNATE #2
- CRUSHED STONE PAVING ADD ALTERNATE #2
- EXISTING TREE - PROTECT IN PLACE, UNLESS NOTED OTHERWISE.

KEYNOTES - DETAIL A

SYMBOL	DESCRIPTION	QTY	REMARKS
1	EXISTING CONCRETE PAVEMENT		
2	CONCRETE PAVING TYPE A - SEE SHT. L-LI, DTL. C	528 sf	ADD ALTERNATE #2
3	CONCRETE PAVING TYPE B - SEE SHT. L-LI, DTL. C	511 sf	ADD ALTERNATE #2
4	EXISTING TREE TO REMAIN - FIELD VERIFY LOCATION. PROTECT IN PLACE ACCORDING TO DETAILS AND SPECS		
6	FLAGPOLE - SEE ARCHITECTURAL DRAWINGS. PROVIDE ELECTRICAL POWER TO FLAGPOLES. COORDINATE WITH ELECTRICAL PLANS.		
7	BENCH - SEE SHT. L-LI, DTL. B & B2		ADD ALTERNATE #2
10	PROPOSED CONCRETE STEPS - REFER TO ARCHITECTURAL PLANS		
14	SAW-CUT EXISTING CONCRETE AND REMOVE CONCRETE PAVEMENT AS NECESSARY FOR PROPOSED CONSTRUCTION. PATCH AND REPAIR EXISTING CONCRETE AS NECESSARY.		
15	SALVAGE AND PROTECT EXISTING MISSILE BOLLARDS. RELOCATE IN THIS LOCATION.		ADD ALTERNATE #2
16	FLAGPOLE TO BE LOCATED AND SURVEYED AS PER ORIGINAL LOCATION PRIOR TO CONSTRUCTION. FLAG POLE TO BE NEW-SEE ARCHITECTURAL DRAWINGS FOR DETAIL.		
17	LANDSCAPE EDGING - SEE SHT. L-PI, DTL. E		ADD ALTERNATE #2
18	ALIGN SCORE JT. AND/OR EDGE OF PAVEMENT WITH EDGE OF STEPS OR INTERSECTING WALK		
19	STONE DUST PAVING - SEE SHT. L-LX, DTL. D	487 sf	ADD ALTERNATE #2
20	ALIGN LANDSCAPE EDGING WITH BASE OF STAIRS		
21	ADA ACCESS INTENT SHOWN. CONTRACTOR RESPONSIBLE TO VERIFY GRADES AND INSTALL IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES. HANDRAIL MATERIALS TO MATCH STAIR HANDRAILS - SEE ARCHITECTURAL PLANS. SUBMIT SHOP DWGS. SHOWING GRADES, RAMP, & HANDRAILS.		
22	PROTECT EXISTING LANDSCAPING - PATCH AND REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OPERATIONS.		
23	REMOVE EXISTING GATE. REPAIR FENCE TO EXTEND TO FACE OF BUILDING.		
26	ROCK MULCH - SEE SHT. L-LI, DTL. F		BASE BID

*QUANTITIES FOR REFERENCE ONLY, CONTRACTOR TO VERIFY.

GRADING NOTES

1. FINISHED GRADES, CONTOURS, AND ELEVATIONS INDICATED ON THE GRADING AND DRAINAGE PLAN DESCRIBE FINAL SURFACE ELEVATIONS FOR COMPLETED CONSTRUCTION. THE CONTRACTOR SHALL REVIEW THE DETAILS AND SPECIFICATIONS TO ASCERTAIN SPECIFIC WORK LIMITS AND REQUIREMENTS.
2. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING. ALL RIDGES AND VALLEYS SHALL HAVE A SMOOTH TRANSITION FROM THE VALLEYS TO THE RIDGES.
3. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY, AND ALL UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
4. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
5. ANY AREA OUTSIDE THE LIMIT OF DISTURBANCE/PROPERTY LINE THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
6. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
7. CONTRACTOR SHALL SUPPLY AND MAINTAIN FOR THE DURATION OF CONSTRUCTION ALL NECESSARY DEVICES FOR EROSION, SEDIMENT AND DUST CONTROL.
8. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
9. ALL WALKS, ADA RAMPS, STAIRS AND ALL HARDSURFACING ARE TO MEET CODE REQUIREMENTS.

SCALE & NORTH ARROW

0 5 10 20
SCALE: 1" = 10'
NORTH

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BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
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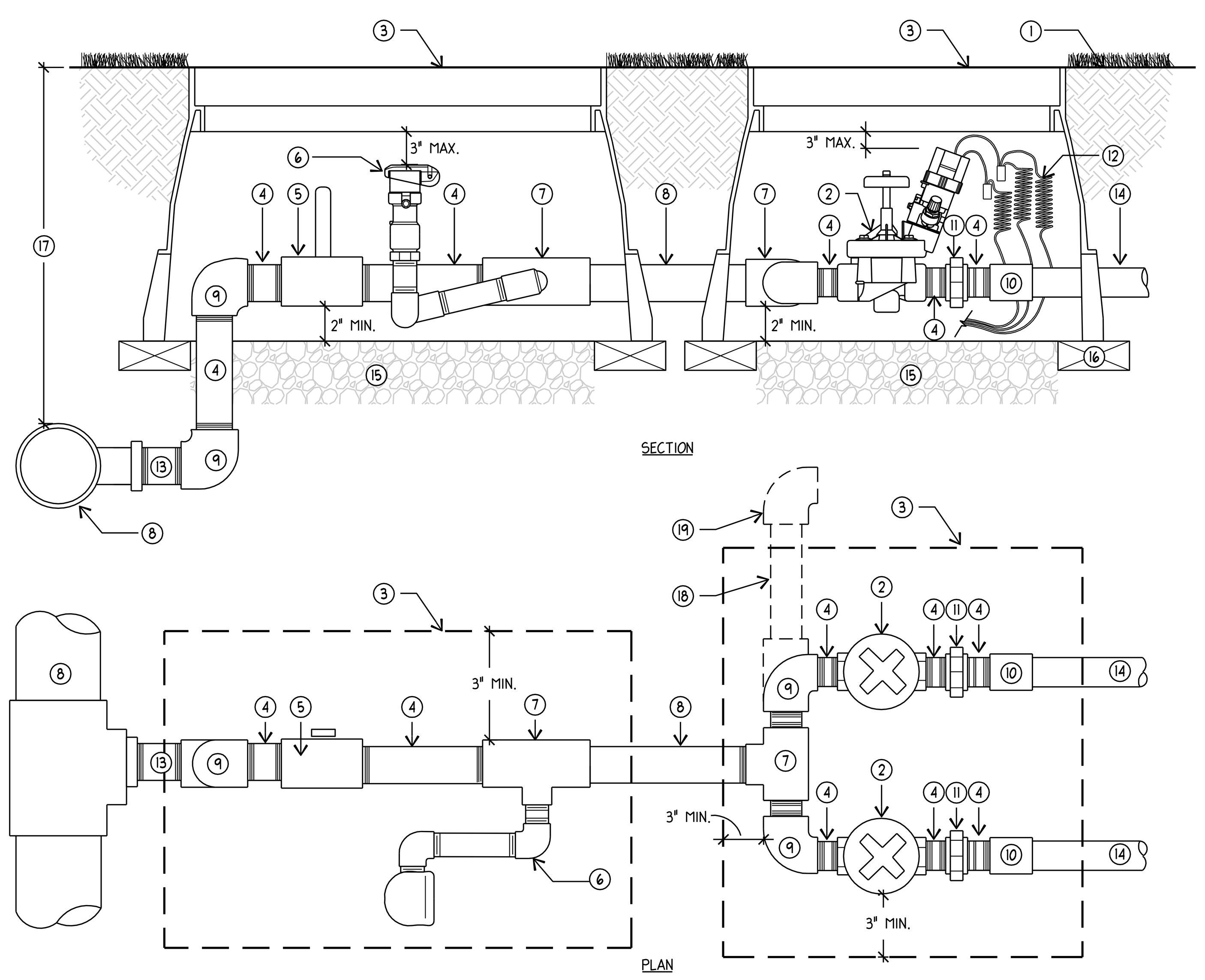
SHEET TITLE
LAYOUT / GRADING PLAN & SITE DETAILS

SHEET NUMBER
L-L1

ELECTRIC REMOTE-CONTROL VALVE ASSEMBLY ADD ALTERNATE #2

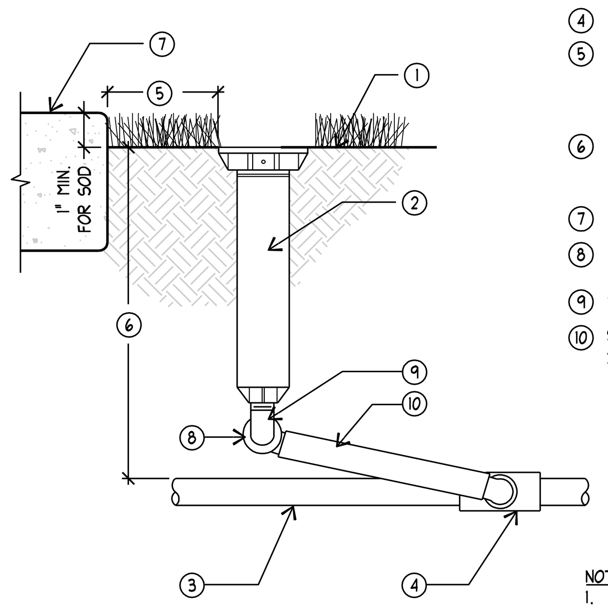


1. SET FLUSH TO FINISH GRADE/TOP OF MULCH
2. ELECTRIC REMOTE-CONTROL VALVE (SEE IRRIGATION LEGEND)
3. CARSON BROOKS 1419-12 STANDARD OR JUMBO VALVE BOX WITH 1220 EXTENSIONS, IF NEEDED (LOCATION MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION).
4. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. ISOLATION BALL VALVE WITH HANDLE TURNED UPWARDS (SEE IRRIGATION LEGEND)
6. QUICK COUPLER VALVE (NOT AT EVERY VALVE MANIFOLD) (SEE IRRIGATION LEGEND AND DETAIL)
7. PVC SCH 80 TEE T X T X S (SAME SIZE AS MAINLINE PIPING)
8. MAINLINE PIPING (SIZE AS PER PLAN)
9. PVC SCH. 80 T X T ELBOW
10. PVC SCH. 80 T X S COUPLING
11. PVC SCH. 80 UNION
12. CONTROL WIRES- 30-INCH LINEAR LENGTH OF WIRE, COILED
13. PVC SCH 80 NIPPLE WITH BUSHING (LENGTH AS REQUIRED)
14. LATERAL PIPING (SIZE AS PER PLAN)
15. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED AGGREGATE
16. BRICK FOUNDATION, TYP.
17. FOR TRENCH DEPTHS (SEE TRENCHING AND SLEEVING DETAIL)
18. PVC SCH 80 PIPE (LENGTH AS REQUIRED)
19. EXTEND FOR NUMBER OF VALVES REQUIRED

NOTES:
1. LOCATE ALL VALVE BOXES IN PLANTER BEDS UNLESS OTHERWISE INDICATED.
2. ALL FITTINGS AND NIPPLES IN MANIFOLD SHALL BE SCH. 80 THREADED PVC USING TEFLON TAPE.
3. VALVE MANIFOLD TO BE INSTALLED GOING AWAY FROM MAIN SUPPLY LINE. MINIMUM OF 1 FOOT BEFORE CHANGE IN DIRECTION.
4. CUT ALL VALVE BOXES AS REQUIRED SO BOXES DO NOT SIT ON PIPING.

G — ELECTRIC REMOTE-CONTROL VALVE ASSEMBLY ADD ALTERNATE #2
SCALE: NTS — SECTION/PLAN

POP-UP SPRAY HEAD ADD ALTERNATE #2

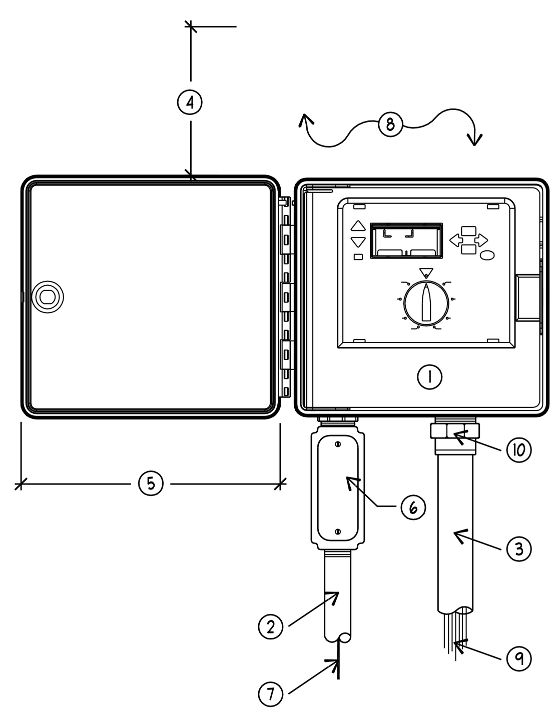


1. SET HEAD FLUSH WITH FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY HEAD (SEE IRRIGATION SCHEDULE)
3. LATERAL PIPING (SIZE AS PER PLAN)
4. PVC SCH 40 TEE OR ELL
5. ALL SPRAY HEADS TO BE PLACED 1" CLEAR OF ALL HARDSCAPE SURFACES AND 2'-0" FROM BUILDINGS
6. FOR TRENCH DEPTHS (SEE TRENCHING AND SLEEVING DETAIL)
7. TOP OF HARDSCAPE
8. 1/2" BARB 90°
9. 1/2" MARLEX 90° ELL
10. SWING ASSEMBLY: FLEX TUBE 24" MAX. LENGTH

NOTE:
1. SWING PIPE SHALL SLOPE TOWARDS LATERAL PIPE FOR COMPLETE DRAINAGE.

H — POP-UP SPRAY HEAD ADD ALTERNATE #2
SCALE: NTS — SECTION

IRRIGATION CONTROLLER-WALL MOUNTED ADD ALTERNATE #2

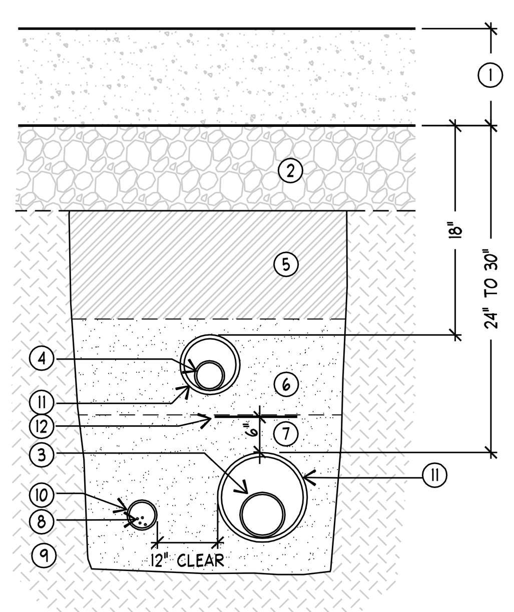


1. WALL MOUNTED IRRIGATION CONTROLLER (SEE IRRIGATION LEGEND)
2. 1-INCH PVC SCH. 80 CONDUIT AND FITTINGS TO POWER SUPPLY
3. 1-1/4", 1-1/2" OR 2" PVC SCH 80 CONDUIT AND FITTINGS FOR VALVE WIRES
4. MAINTAIN HINGE PIN CLEARANCE FOR DOOR REMOVAL
5. MAINTAIN CLEARANCE FOR DOOR
6. JUNCTION BOX
7. 120V POWER SUPPLY BY OTHERS
8. MOUNT TO BUILDING WALL BEYOND OR APPROVED STRUCTURE (LOCATION MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION)
9. REMOTE CONTROL VALVE WIRES
10. LOCK NUT

NOTE:
1. INSTALL PER MANUFACTURE'S SPECIFICATIONS.
2. ALL CONDUIT ABOVE GROUND SHALL GALV. SCH. 40 PIPE.
3. PROVIDE UL APPROVED 5/8" X 8' GROUND ROD. GROUND WIRE SHALL BE #8 WIRE CONNECTING WITHIN THE TOP 4" OF GROUND ROD WITH UL APPROVED GROUND CLAMPS (NO SCREW CLAMPS)

E — IRRIGATION CONTROLLER-WALL MOUNTED ADD ALTERNATE #2
SCALE: NTS — ELEVATION

SLEEVING ADD ALTERNATE #2

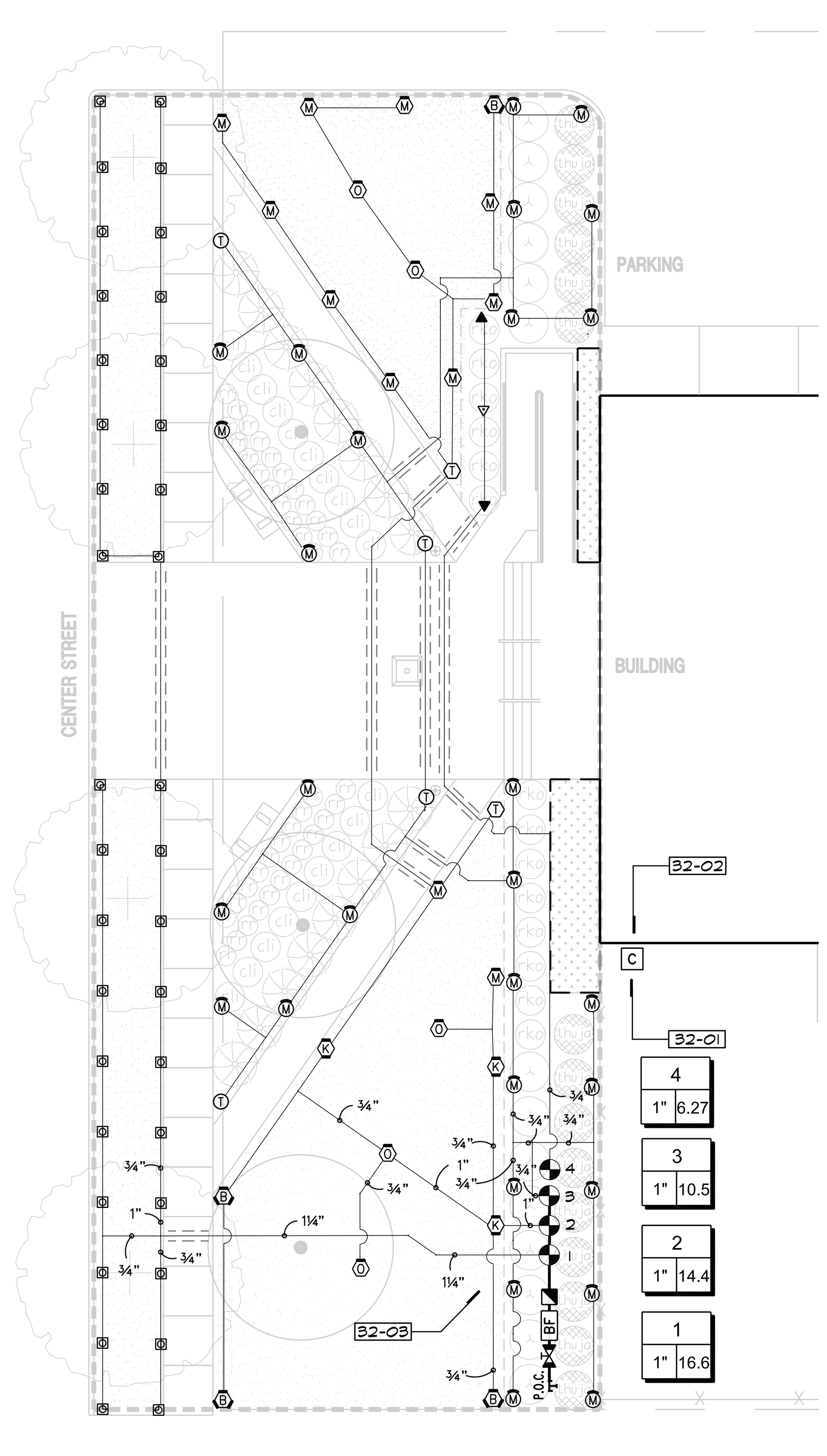


1. HARDSCAPE PAVING
2. COMPACTED AGGREGATE SUB-BASE
3. MAINLINE PIPING
4. LATERAL PIPING
5. CLEAN BACKFILL FREE OF ROCKS 1" DIA. AND LARGER.- SEE SPECS.
6. BEDDING SAND- IN CASES WHERE LATERAL PIPING IS INSTALLED IN MAINLINE TRENCH, USE SAND TO BACKFILL TRENCH
7. BEDDING SAND- USE SAND TO A DEPTH OF 2" BELOW AND TO THE EITHER SIDE OF SLEEVING
8. ELECTRICAL WIRES - BUNDLE AND TAPE WITH DUCT TAPE EVERY 15FT. O.C.
9. COMPACTED SUBGRADE
10. ELECTRICAL CONDUIT- SEE SPECS.
11. SLEEVING:
    -SLEEVES SHALL BE 2" LARGER THAN THE PIPE OR WIRES WITHIN
    -1" TO 2 1/2" =PVC SCH 80
    -4" AND LARGER = PVC CLASS 200
12. USE DETECTABLE WARNING TAPE W/ MAINLINE - PLACE 6" ABOVE - SEE SPECS.

NOTE:
1. SETTLE ALL TRENCHES WITH WATER PRIOR TO INSTALLATION OF TOPSOIL.
2. WHEN MULTIPLE PIPES OCCUR IN ONE TRENCH, ADD REQUIRED SLEEVE SIZES TOGETHER FOR 1 SLEEVE SIZE.
3. EXTEND ALL SLEEVING 12" MIN. BEYOND EDGE OF PAVING.

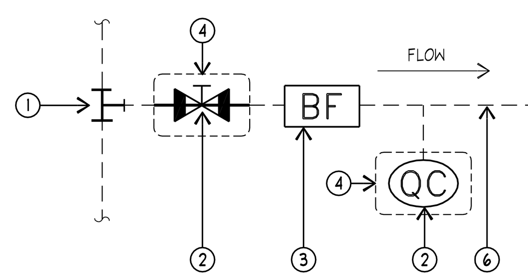
F — SLEEVING ADD ALTERNATE #2
SCALE: NTS — SECTION

LANDSCAPE PLAN ADD ALTERNATE #2



A — LANDSCAPE PLAN ADD ALTERNATE #2
SCALE: 1"=10'-0" — PLAN

POINT OF CONNECTION ADD ALTERNATE #2



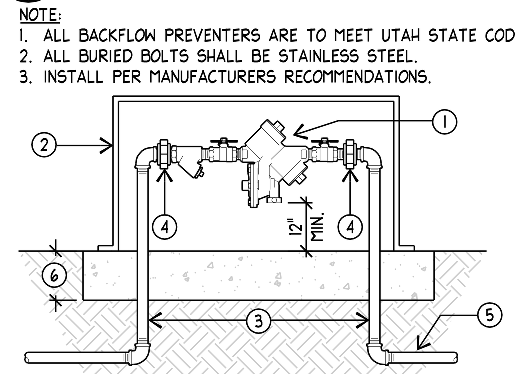
1. POINT OF CONNECTION. TIE INTO CULINARY WATER LINE
2. STOP AND WASTE VALVE (SEE IRRIGATION SCHEDULE)
3. BACKFLOW PREVENTOR (SEE IRRIGATION SCHEDULE)
4. HEAVY-DUTY VALVE BOX WITH LOCKING LID (LOCATION MUST BE APPROVED BY OWNER'S REP. PRIOR TO INSTALL).
5. QUICK COUPLER
6. MAINLINE PIPING

NOTE:
1. ALL CONNECTIONS TO MEET UTAH STATE CODE REQUIREMENTS
2. REFER TO GENERAL IRRIGATION NOTE #2 FOR IRRIGATION SYSTEM DESIGN PARAMETERS

B — POINT OF CONNECTION ADD ALTERNATE #2
SCALE: NTS — PLAN

BACKFLOW ASSEMBLY ADD ALTERNATE #2

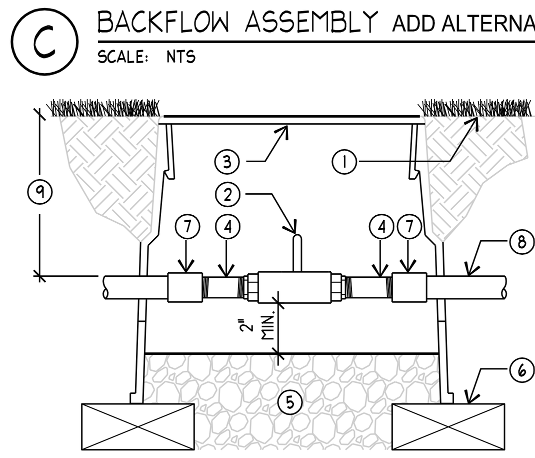
NOTE:
1. ALL BACKFLOW PREVENTERS ARE TO MEET UTAH STATE CODES.
2. ALL BURIED BOLTS SHALL BE STAINLESS STEEL.
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.



1. BACKFLOW PREVENTER (SEE IRRIGATION LEGEND)
2. PROTECTIVE ENCLOSURE (SEE IRRIGATION LEGEND)
3. MAINLINE PIPING (SIZE AS PER PLAN)
4. UNIONS AS NEEDED
5. PVC PIPING ALLOWED BEYOND THIS POINT OF THE SYSTEM- (USE SPOOL OR GALVANIZED PIPING BEFORE THIS POINT)
6. CONCRETE SLAB WITH COMPACTED AGGREGATE BASE PER ENCLOSURE MANUFACTURER RECOMMENDATION

C — BACKFLOW ASSEMBLY ADD ALTERNATE #2
SCALE: NTS — SECTION

ISOLATION BALL VALVE ASSEMBLY ADD ALTERNATE #2



1. SET FLUSH TO FINISH GRADE / TOP OF MULCH
2. ISOLATION BALL VALVE W/ HANDLE TURNED UPWARD (SEE IRRIGATION SCHEDULE)
3. VALVE BOX (LOCATION MUST BE APPROVED BY OWNER'S REP. PRIOR TO INSTALL).
4. PVC SCH 80 NIPPLE
5. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED AGGREGATE
6. BRICK FOUNDATION
7. PVC SCH 80 SLIP X THREAD COUPLING (SAME SIZE AS MAINLINE PIPING)
8. MAINLINE PIPING
9. FOR TRENCH DEPTHS (SEE TRENCHING AND SLEEVING DETAIL)

D — ISOLATION BALL VALVE ASSEMBLY ADD ALTERNATE #2
SCALE: NTS — SECTION

LEGEND

PROPERTY BOUNDARY LINE	FLAGPOLE
ROCK MULCH (SEE SHT. L-L1, DTL. A & F)	SALVAGED MISSILE BOLLARD, RELOCATED
LIMIT OF WORK	BENCH
LANDSCAPE EDGE	

IRRIGATION SCHEDULE ADD ALTERNATE #2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS
	Rain Bird 1804-SAM-PRS 8 Series MPR Turf Spray 4" popup with check valve and pressure regulator.	180	30	0.52	8'
	Rain Bird 1804-SAM-PRS 8 Series MPR Turf Spray 4" popup with check valve and pressure regulator.	90	30	0.26	8'
M	Hunter MP1000 w/ MPR40-04-CV Turf Spray 4" pop-up with check valve, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc, on MPR40 4" pop-up body.	Adj	40		13'
O	Hunter MP1000 w/ MPR40-04-CV Turf Spray 4" pop-up with check valve, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc, on MPR40 4" pop-up body.	360	40	0.75	13'
K	Hunter MP2000 w/ MPR40-04-CV Turf Spray 4" pop-up with factory installed check valve, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc, on MPR40 4" pop-up body.	Adj	40		19'
B	Hunter MP3000 w/ MPR40-04-CV Turf Spray 4" pop-up with factory installed check valve, MP Rotator nozzle. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc, on MPR40 4" pop-up body.	Adj	40		30'
T	Hunter MP Corner w/ MPR40-04-CV Turf Spray 4" pop-up with factory installed check valve, MP Rotator nozzle. T=Turquoise adj arc 45-105, on MPR40 4" pop-up body.	Adj	40		13'
M	Hunter MP1000 w/ MPR40-06-CV Shrub Spray 6" pop-up with check valve, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc, on MPR40 6" pop-up body.	Adj	40		13'
T	Hunter MP Corner w/ MPR40-06-CV Shrub Spray 6" pop-up with factory installed check valve, MP Rotator nozzle. T=Turquoise adj arc 45-105, on MPR40 6" pop-up body.	Adj	40		13'
	Hunter MP Strip w/ MPR40-06-CV Shrub Spray 6" pop-up with factory installed check valve, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on MPR40 6" pop-up body.	LCS	40	0.22	5'x15'
	Hunter MP Strip w/ MPR40-06-CV Shrub Spray 6" pop-up with factory installed check valve, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on MPR40 6" pop-up body.	RCS	40	0.22	5'x15'
	Hunter MP Strip w/ MPR40-06-CV Shrub Spray 6" pop-up with factory installed check valve, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on MPR40 6" pop-up body.	SST	40	0.44	5'x30'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PGV-100G-S Electric Remote Control Valve, 1" plastic globe valve, slip x slip.
	Hunter HQ-3RC Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4"NPT inlet, 1-piece body.
	Mueller Mark II Oriseal Stop and Waste Valve - H-10284 Sized equal to pipe size.
C	Hunter PC-900 Modular Controller, 9 stations, outdoor model.
BF	Wilkins 975XL 1" Reduced Pressure Backflow device. Place inside Strong Box Model SBBC-30CR enclosure
P.O.C.	Point of Connection 1"
	Irrigation Lateral Line: PVC Schedule 40
	1" Irrigation Mainline: PVC Schedule 40
	Pipe Sleeve: PVC Class 200 SDR 21 Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
- # — Valve Number
- #" | # — Valve GPM
- Valve Size

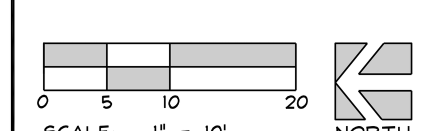
REFERENCE NOTES ADD ALTERNATE #2

SYMBOL	DESCRIPTION
32-01	WALL-MOUNTED CONTROLLER - VERIFY LOCATION WITH OWNER'S REPRESENTATIVE
32-02	ALIGN VALVE BOXES WITHIN SHRUB BEDS
32-03	PROVIDE 120V POWER TO THIS LOCATION FOR CONTROLLER. COORDINATE WITH ELECTRICAL CONTRACTOR

IRRIGATION NOTES ADD ALTERNATE #2

1. IT IS THE INTENT OF THESE IRRIGATION PLANS TO PROVIDE THE CONTRACTOR WITH CONSTRUCTION INFORMATION THAT WILL ENABLE HIM TO PROVIDE AND INSTALL A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PARTS AND MATERIALS REQUIRED.
2. THE SYSTEM IS DESIGNED FOR AN OPERATING PRESSURE BETWEEN 40-65 PSI AND A MAX. DEMAND OF 20 GPM. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING CULINARY WATER LINE TO BE CONNECTED TO AND VERIFY THE AVAILABLE WATER PRESSURE ON SITE PRIOR TO CONSTRUCTION - REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. IN THE EVENT THE PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY. CONTRACTOR TO MAINTAIN OPERATING PRESSURE FOR EACH ZONE TO THE LAST HEAD.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, STRUCTURES, WALKS, AND UTILITIES. THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED BY HIS WORK, HE SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS AND UNDER PAVING.
4. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADING DIFFERENCES MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
5. THIS DESIGN IS DIAGRAMMATIC, ALL IRRIGATION EQUIPMENT, PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHEREVER POSSIBLE.
6. IRRIGATION SYSTEM IS TO BE INSTALLED AS SHOWN AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
7. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE. INSTALL ALL SPRINKLER HEADS WITH NOZZLES OF THE APPROPRIATE DEGREE AND RADIUS FOR THE AREA TO BE COVERED. ADJUST ALL NOZZLES TO MINIMIZE SPRAYING ONTO WALKS, BUILDINGS, ETC.
8. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURES SPECS.
9. ALL PIPE INSTALLED IN PAVING SHALL BE SLEEVED (SEE LEGEND AND DETAILS).

SCALE & NORTH ARROW



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BUILDING NAME:
FILLMORE ARMORY
UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET
ISSUE DATE: 12/14/2009
DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: SG/KS
CHK'D BY: SG

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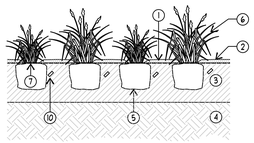
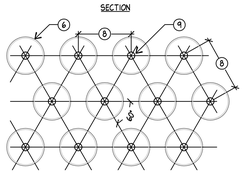
SHEET TITLE
IRRIGATION PLAN & DETAILS - ADD ALTERNATE #2

SHEET NUMBER
L-R1



SECTION



PLAN

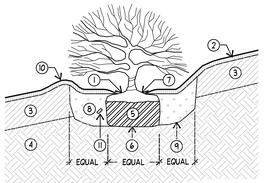
1. MULCH BACK FROM PLANT
2. SHREDDED BARK MULCH - SEE SPECS.
3. AMENDED TOPSOIL- SEE TOPSOIL SPECS.
4. UNDISTURBED SUBGRADE
5. IF PLANTS ARE POT-BOUND AT PLANTING TIME, LOOSEN THE ROOTS AROUND THE BOTTOM AND SIDES OF THE ROOT BALL
6. PLANT
7. BE SURE THE CROWN OF THE PLANT (THE POINT WHERE ROOTS AND TOP _ON) IS EVEN WITH THE SOIL SURFACE
8. PLANT SPACING VARIES - REFER TO PLANT SCHEDULE OR PLAN
9. CENTER OF PLANT
10. FERTILIZER TABLET - SEE SPECS.

NOTES:
1. PRUNE DEAD, DISEASED, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME.
2. REMOVE ALL LABELS, WIRES, ETC. FROM PLANT.
3. WATER PLANTS THOROUGHLY FOLLOWING PLANTING TO SETTLE THE SOIL AROUND THE ROOTS.

F PERENNIAL / GROUNDCOVER ADD ALTERNATE #2

SCALE: NTS — SECTION/PLAN

NOTES:
1. PLANT SHRUB PLUMB.
2. PRUNE DEAD, DISEASED, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME. DO NOT PRUNE LEADER.
3. REMOVE ALL LABELS, WIRES, ETC. FROM SHRUB.

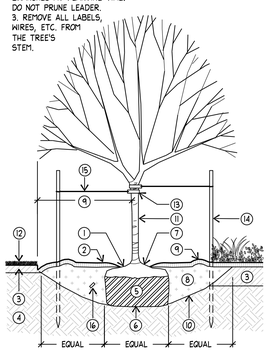


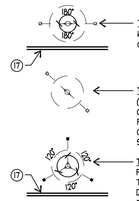
1. MULCH 1" TO 2" BACK FROM TRUNK
2. SHREDDED BARK MULCH - SEE SPECS.
3. AMENDED TOPSOIL- SEE TOPSOIL SPECS.
4. UNDISTURBED SUBGRADE
5. IF THE SHRUB IS BALLED AND BURLAPPED (OR CONTAINED IN A WIRE BASKET), CUT AND REMOVE THE ROPE, STRING, WIRE, AND/OR WIRE BASKET FROM AROUND THE TRUNK AND TOP 1/3 OF THE ROOT BALL
6. SET ROOTBALL ON UNDISTURBED SUBGRADE
7. TRUNK FLAIR- SET 1" TO 2" ABOVE FINISH GRADE
8. MAKE THE HOLE WIDE, AS MUCH AS THREE TIMES THE DIAMETER OF THE ROOT BALL, BUT ONLY AS DEEP AS THE ROOT BALL. BACKFILL WITH 1/2 TOPSOIL BORROW FROM PIT AND 1/2 AMENDED TOPSOIL - SEE TOPSOIL SPECS.
9. ROUGHEN SIDES PRIOR TO BACKFILLING. SETTLE W/ WATER IN 12" LIFTS
10. FORM WELL AT EACH PLANT USING TOPSOIL
11. FERTILIZER TABLET - SEE SPECS.

G SHRUB ADD ALTERNATE #2

SCALE: NTS — SECTION

NOTES:
1. PLANT TREE PLUMB.
2. PRUNE DEAD, DISEASED, DAMAGED, OR RUBBING BRANCHES AT PLANTING TIME. DO NOT PRUNE LEADER.
3. REMOVE ALL LABELS, WIRES, ETC. FROM THE TREE'S STEM.





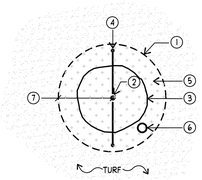
TREE STAKING ALONG ROADS OR WALK (ALL TREES LESS THAN 2" CALIPER)

TREE STAKING IN OPEN SPACES (ALL TREES LESS THAN 2" CALIPER). ALIGN STAKES PERPENDICULAR W/ DIRECTION OF PREVAILING WINDS. ALL STAKES TO BE CONSISTENT.

TREE STAKING ALIGN 2 STAKES PARALLEL W/ ROAD OR WALK (USE THREE STAKES FOR ALL DECIDUOUS TREES GREATER THAN 2" CAL.)

B DECIDUOUS TREE WITH STAKING ADD ALTERNATE #2

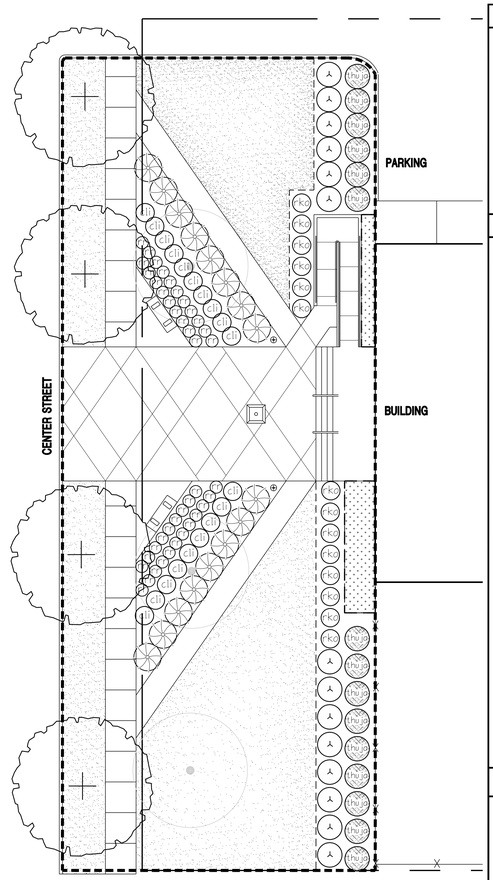
SCALE: NTS — SECTION



1. MULCH 1" TO 2" BACK FROM TRUNK
2. SHREDDED BARK MULCH - SEE SPECS.
3. AMENDED TOPSOIL - SEE TOPSOIL SPECS.
4. UNDISTURBED SUBGRADE
5. IF THE TREE IS BALLED AND BURLAPPED (OR CONTAINED IN A WIRE BASKET), CUT AND REMOVE THE ROPE, STRING, WIRE, AND/OR WIRE BASKET FROM AROUND THE TRUNK AND TOP 1/3 OF THE ROOT BALL
6. SET ROOTBALL ON UNDISTURBED SUBGRADE
7. TRUNK FLAIR- SET 1" TO 2" ABOVE FINISH GRADE
8. MAKE THE HOLE WIDE, AS MUCH AS THREE TIMES THE DIAMETER OF THE ROOT BALL, BUT ONLY AS DEEP AS THE ROOT BALL. BACKFILL WITH 1/2 TOPSOIL BORROW FROM PIT AND 1/2 AMENDED TOPSOIL - SEE TOPSOIL SPECS.
9. REMOVE SOD AT DRIPLINE OF TREE TO FORM TREE WELL OR A MIN. WIDTH OF 3'-0" DIA.
10. ROUGHEN SIDES PRIOR TO BACKFILLING. SETTLE W/ WATER IN 12" LIFTS
11. IF PLANTED IN LATE FALL, WRAP TRUNK, STARTING AT THE BOTTOM TO THE FIRST SET OF BRANCHES. REMOVE THE WRAP SPRING, AFTER THE LAST FROST. ONLY WRAP IF SUN HITS ITS TRUNK IN WINTER.
12. DO NOT PLANT LAWN IN TREE PIT
13. 3" OR WIDER NYLON WEBBING W/ METAL GROMMETS
14. 6'-0" X 2" DIA. ROUND WOOD STAKES, TWO PER TREE (THE STAKES SHALL BE PLUMB AND SET AT THE SAME HIEGHT)
15. DOUBLE STRAND PLIABLE NO. 10-GAGE GALVANIZED STEEL WIRE OR VINYL-COATED STEEL WIRE, DO NOT PULL TAUT
16. FERTILIZER TABLET - SEE SPECS.
17. EDGE OF WALK OR CURB

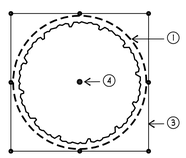
C TREE IN TURF ADD ALTERNATE #2

SCALE: NTS — PLAN



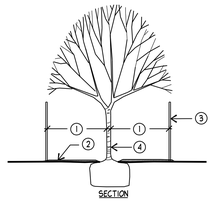
A LANDSCAPE PLAN ADD ALTERNATE #2

SCALE: NTS — PLAN



PLAN

1. PROTECTIVE ROOT ZONE (PRZ)- TO CALCULATE CRITICAL ROOT RADIUS, MEASURE THE TREE'S DIAMETER (DBH) 4.5 FEET ABOVE THE GROUND. MEASURE IN INCHES. FOR EACH INCH, ALLOW FOR 1 TO 1.5 FEET OF CRITICAL ROOT RADIUS. IF A TREE'S DBH IS TEN INCHES, ITS CRITICAL ROOT RADIUS IS 10 TO 15 FEET.
2. MULCH 1" TO 2" BACK FROM TRUNK WITHIN THE PRZ
3. TREE PROTECTION BARRIER- USE 4'-0" HIGH ORANGE SNOW FENCE WITH POSTS MIN. 5'-0" O.C. REVIEW DESIGN WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. TREE TRUNK

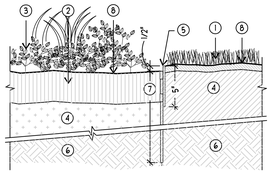


SECTION

NOTES:
1. IF THERE IS TRENCHING WITHIN THE PRZ, TRENCHES SHALL ONLY BE DUG ON ONE SIDE OF THE TREE AND SHALL BE DONE ONLY DONE WITH APPROVAL FROM THE OWNER'S REPRESENTATIVE. HAND EXCAVATION ONLY.
2. DO NOT STOCKPILE ANY MATERIALS OR LOCATE ANY HEAVY MACHINERY WITHIN THE PRZ. THERE SHALL BE NO TRAFFIC ALLOWED WITHIN THE PRZ.
3. ONLY MOVE BARRIER WITH THE PERMISSION OF THE OWNER'S REPRESENTATIVE.

D TREE PROTECTION ADD ALTERNATE #2

SCALE: NTS — SECTION/PLAN



1. TURF
2. MULCH, AS SPECIFIED
3. SHRUB BED
4. TOPSOIL LAYER
5. STEEL LANDSCAPE EDGING SYSTEM- SEE SPECS.
6. SUBGRADE
7. 14" SPIKE
8. FINISH GRADE

NOTES:
1. INSTALL PER MANUFACTUER'S SPECIFICATIONS.

E STEEL LANDSCAPE EDGING ADD ALTERNATE #2

SCALE: NTS — SECTION

BLUE STAKES

CALL BEFORE YOU DIG

Call: TOLL FREE

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TWO WORKING DAYS BEFORE YOU DIG

LEGEND

- PROPERTY BOUNDARY LINE
- ROCK MULCH (SEE SHT. L-LI, DTL. A & F)
- LIMIT OF WORK
- LANDSCAPE EDGE
- FLAGPOLE
- SALVAGED MISSILE BOLLARD, RELOCATED
- BENCH
- EXISTING TREE - PROTECT IN PLACE, UNLESS NOTED OTHERWISE.

PLANTING LEGEND ADD ALTERNATE #2

	BOTANICAL	COMMON	CONT	CAL	QTY
DECIDUOUS TREES					
GD	Gleditsia triacanthos inermis 'Shademaster' TM	Shademaster Locust	B & B	3"	4
SHRUBS					
CIl	Cytisus x 'Lilac Time'	Lilac Time Broom	5 gal		19
Ko	Rosa shrub 'Knock Out'	Knock Out Rose	18"-24"		14
TOc	Thuja occidentalis 'Emerald'	Emerald Arborvitae	5'-6'		15
Vd	Viburnum x burkwoodii	Burkwood Viburnum	5 gal		14
ANNUALS/PERENNIALS					
Hr	Hemerocallis hybrid 'Rosy Returns'	Rosy Returns Daylily	1 gal		41
GRASSES					
Ms	Miscanthus sinensis 'Gracillimus'	Maiden Grass	1 gal		16
GROUND COVERS					
	Turf-Grass	Turf-Grass	sod		662 sf

KEYNOTES

PLANTING NOTES ADD ALTERNATE #2

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE OF SAID UTILITIES.
2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS. QUANTITIES ARE ESTIMATES, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE NUMBERS.
3. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
4. INSTALL A 3" LAYER OF APPROVED BARK MULCH TO COVER ALL EXPOSED AREAS IN ALL PLANTED AREAS, SEE SPECIFICATIONS.
5. ALL PLANT MATERIAL SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE UPON DELIVERY TO THE SITE, AND PRIOR TO INSTALLATION.
6. FINAL LOCATIONS OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OF THE OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR TO SUPPLY A MINIMUM OF 6" OF AMENDED TOPSOIL TO ALL NEW PLANTINGS. PRUNE TREES IN ACCORDANCE WITH SPECIFICATIONS. AMEND THE SOIL WITH ORGANIC MATERIAL AS PER SPECIFIC RECOMMENDATIONS OF THE SOILS REPORT. SCARIFY THE SOIL TO A MIN. DEPTH OF 6 INCHES.
8. ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES AND COMPLY WITH ANSIZ60.1 "STANDARDS FOR NURSERY STOCK."
9. TREES SHALL NOT BE PLANTED LESS THAN 5'-0" FROM CURBS OR HARD SURFACE AREAS UNLESS A ROOT BARRIER IS INSTALLED PER SPECIFICATIONS.
10. ALL MANUFACTURED SLOPE AREAS AND DRAINAGE SWALES SHALL BE COVERED WITHIN 30 DAYS OF COMPLETION OF GRADING WITH STRAW MULCH, JUTE NETTING, OR OTHER APPROVED GEOTEXTILE MATERIAL CAPABLE OF CONTROLLING SURFACE SOIL EROSION.
11. CONTRACTOR RESPONSIBLE TO NOTIFY OWNER'S REPRESENTATIVE WHEN APPROXIMATELY 25% PLANT MATERIAL HAS BEEN INSTALLED. OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO WALK SITE TO INSPECT THE HEALTH, CONDITION, AND COMPLIANCE OF INITIAL INSTALLATION OF PLANT MATERIAL. ADJUSTMENTS TO PLANTINGS MAY BE REQUIRED FOR REMAINDER OF WORK TO ADDRESS QUALITY ISSUES DISCOVERED DURING 25% SITE PLANT INSPECTION.

SCALE & NORTH ARROW

0 5 10 20

SCALE: 1" = 10'

NORTH

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

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SHEET TITLE

LANDSCAPE PLAN & DETAILS - ADD ALTERNATE #2

SHEET NUMBER

L-P1

STRUCTURAL GENERAL NOTES

ABBREVIATIONS	
AB	ANCHOR BOLT
ABV	ABOVE
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATELY
ARCH'L	ARCHITECTURAL
BLW	BELOW
BD	BOARD
BLDG	BUILDING
BLK'G	BLOCKING
BM	BEAM
B.N.	BOUNDARY NAILING
B.O.	BOTTOM OF
BOTT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CAM	CAMBER
CANT'L	CANTILEVERED
CTR	CENTERED
CL	CENTERLINE
CLR	CLEAR
CMU	CONC MAS UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
d	PENNY
D/DIA	DIAMETER
DBL	DOUBLE
DEPT	DEPARTMENT
DFL	DOUGLAS FIR LARCH
DIAG	DIAGONAL
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC
E.N.	EDGE NAILING
ENCL	ENCLOSED
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTD	EXTENDED
FD	FLOOR DRAIN
FND/FDN	FOUNDATION
FF	FINISH FLOOR
FG	FINISH GRADE
FIN	FINISH
FLR	FLOOR
FRMG	FRAMING
FT	FOOT OR FEET
FTG	FOOTING
FURR	FURRING
GA	GAUGE
GLB	GLU-LAM BEAM
GRND	GROUND
G.T.	GIRDER TRUSS
GYP	GYPSUM WALLBOARD
HD	HOLDOWN
HDR	HEADER
HGR	HANGER
HGT	HEIGHT
HORIZ	HORIZONTAL
H.T.	HIP TRUSS
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LAM	LAMINATE
LAT	LATERAL
LBS	POUNDS
LSL	LAM. STRAND LUMBER
LT	LIGHT
LVL	LAM. VENEER LUMBER
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MFR'D	MANUFACTURED
MIN	MINIMUM
MISC	MISCELLANEOUS
NO.	NUMBER
NTS	NOT TO SCALE
O/	OVER
O.C.	ON CENTER
O.H.	OPPOSITE HAND
OPN'G	OPENING
P.F.A.	POST FROM ABOVE
PSL	PARALLEL STRAND LUMBER
PL	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PSI	LBS PER SQ INCH
PT	POST-TENSIONED
#	POUND
PREFAB	PREFABRICATED
r/RAD	RADIUS
REF	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
SCHED	SCHEDULE
S.F.	SQUARE FEET
SECT	SECTION
SHTHG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATIONS
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SYM	SYMMETRICAL
SW	SHEAR WALL
SPN	SOLE PLATE NAILING
T&G	TONGUE AND GROOVE
T&B	TOP AND BOTTOM
THK	THICK
T.O.	TOP OF
TRIMM	TRIMMER
TR	TRUSS
TS	TUBE STEEL
TS LSL	TIMBERSTRAND BEAM
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WT	WEIGHT

A. GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON DRAWINGS.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING:
   THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
   - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
   - FLOOR AND ROOF FINISHES.
   - STAIR FRAMING AND DETAILS (EXCEPT AS SHOWN).
   - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   - PIPE RUNS, SLEEVES, HANGER, TRENCHES WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   - ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   - CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   - SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOUNTS.
7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
8. OPENINGS, POCKETS, ETC. LARGER THAN 6 INCHES SHALL NO BE PLACED IN SLABS, DECKS, BEAMS, JOISTS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED ON STRUCTURAL MEMBERS.
9. ASTM SPECIFICATIONS NOTED SHALL BE THE LATEST REVISION.
10. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
11. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
12.

LIVE LOADS	
FLOOR LIVE LOAD	50 PSF / 100 PSF
ROOF LIVE LOAD	20 PSF
LIVE LOAD REDUCTION (WHERE APPLICABLE)	YES

SNOW LOAD	
GROUND SNOW LOAD, Pg	43 PSF
ROOF SNOW LOAD	30 PSF
FLAT ROOF SNOW LOAD, Pf	30 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
SNOW IMPORTANCE FACTOR, I	1.0
THERMAL FACTOR, Ct	1.0

WIND	
BASIC WIND SPEED	90 MPH
WIND IMPORTANCE FACTOR, I_w	1.0
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	±0.18
COMPONENT & CLADDING	
ROOF	+10.0 PSF MIN. OR −20.4 PSF
ROOF (ENDZONE)	+10.0 PSF MIN. OR −51.5 PSF
ROOF (OVERHANG)	+10.0 PSF MIN. OR −51.5 PSF
WALL	+20.4 PSF OR −27.3 PSF

SEISMIC	
SEISMIC IMPORTANCE FACTOR	I
SEISMIC OCCUPANCY CATEGORY	II
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_s =0.695 AND S_1 =0.207
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENT	S_{DS}=0.576 AND S_{D1}=0.274
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE RESISTING SYSTEMS	ORDINARY PLAIN CONCRETE SHEAR WALLS (EXISTING)
DESIGN BASE SHEAR	C_s x DEAD WEIGHT(W)
SPECTRAL RESPONSE COEFFICIENT, C_s	0.384
RESPONSE MODIFICATION FACTORS	R = 1.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

SPECIAL LOADS	
FLOOD LOAD	N/A (OUTSIDE FLOOD HAZARD AREA)
OTHER SPECIAL LOADS	N/A

B. FOUNDATION

1. FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE OF 2500 PSF AS PER THE PROJECT GEOTECHNCAL REPORT, (THE SOIL REPORT):

   CONSULTANT: GSH GEOTECHNICAL CONSULTANTS, INC.
   REPORT #: 0128-047-09
   DATE: SEPT. 18, 2009

   SOILS PREPARATION AND FOUNDATION CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOILS REPORT.
2. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR EXACT LOCATION OF BULKHEADS AND OPENINGS ETC.
3. CONTRACTOR SHALL PROVIDE FOR PROPER DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.
4. FOOTINGS SHALL BE PLACED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
5. THE SOIL UNDER PERIMETER BEAMS AND SLAB SHALL BE NEAR OPTIMUM MOISTURE PRIOR TO CONCRETE PLACEMENT AND SHALL BE VERIFIED BY SOILS ENGINEER.
6. CONCRETE PLACEMENT SHALL BE IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE SPECIFIED AND SLAB SURFACE SHALL BE CURED WITH HUNTS COMPOUND OR EQUAL
7. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE PER THE REQUIREMENTS OF THE PROJECT SOILS REPORT. FLOODING WILL NOT BE PERMITTED.

C. ANCHOR BOLT NOTES

1. THICKEN SLAB AS REQUIRED FOR CONCRETE COVERAGE AT ANCHOR BOLTS PER ACI 318. WHERE OCCURS. THE CONCRETE CONTRACTOR SHALL VERIFY LOCATION OF ALL BOLTS, TIE-DOWNS, POST-ANCHORS, ETC. WITH ARCHITECTURAL PLANS PRIOR TO COMMENCING WORK AND BE RESPONSIBLE FOR SAME.
2. PROVIDE REINFORCING BAR FOR HOLDOWNS PER MFR. SPECIFICATIONS.
3. U.N.O. BOLT SILL PLATES TO THE FOUNDATIONS w/ MIN.½" DIA. ANCHOR BOLT PER ASTM F1554-36 WITH PLATE WASHERS. BOLTS SHALL BE SPACED NOT MORE THAN 32" O.C. THERE SHALL BE A MIN. OF (2) BOLTS PER PIECE. ONE BOLT SHALL BE LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM EACH END. EMBED BOLTS AT LEAST 7" INTO REINFORCED MASONRY OR CONCRETE.
4. ALL ½" DIA. ANCHOR BOLTS MAY BE REPLACED WITH ½" DIA. THREADED ROD EPOXY DOWELED TO FOUNDATION WITH SIMPSON 'SET' EPOXY (ICBO REPORT ER-5279) IN ⅝" DIA. HOLE. PROVIDE A MIN. 3 ½" EMBEDMENT.
5. AT ALL INTERIOR WALLS, ½" DIA. ANCHOR BOLTS MAY BE REPLACED WITH ½" DIA. SIMPSON WEDGE ALL OR SLEEVE ALL ANCHORS. (ICBO REPORT ER-3631) PROVIDE A MIN. OF 3" EMBED.
6. AT ALL EXTERIOR WALLS, ICBO APPROVED ½" DIA. WEDGE OR SLEEVE ANCHORS MAY BE USED AT SILL PLATE SPLICES THAT DO NOT OCCUR AT SHEAR WALLS.
7. FOR HD & PHD HOLDOWNS, ANCHOR BOLTS CAST IN THE CONCRETE FOUNDATION MY BE REPLACED WITH ASTM 1307 ALL THREAD RODS DRILLED AND EPOXY GROUTED AS FOLLOWS:

		MIN. HOLE SIZE & DEPTH:	
MARK	ROD SIZE	AT INTERIOR H.D.'S	AT EXTERIOR H.D.'S
HTT16	⅝" DIA.	¾" DIA. x 6" DEEP	¾" DIA. x 10" DEEP
HTT22	⅝" DIA.	¾" DIA. x 6" DEEP	¾" DIA. x 10" DEEP
HD8A	⅞" DIA.	1" DIA. x 12" DEEP	1" DIA. x 15" DEEP
HD10A	⅞" DIA.	1" DIA. x 12" DEEP	1" DIA. x 15" DEEP
HD14A	1" DIA.	1⅛" DIA. x 12" DEEP	1⅛" DIA. x 15" DEEP
PHD6	⅞" DIA.	1" DIA. x 12" DEEP	1" DIA. x 15" DEEP
HDQ8	⅞" DIA.	1" DIA. x 12" DEEP	1" DIA. x 15" DEEP

   EPOXY GROUT SHALL BE SIMPSON 'SET' EPOXY (ICBO REPORT ER-5279) OR ICBO APPROVED EQUAL.
8. AN HTT22 WITH A ⅝" DIA. ALL-THREAD ANCHOR BOLT EPOXY GROUTED IN ¾" DIA. HOLE MAY BE USED IN LIEU OF THE FOLLOWING HOLDOWNS:

   PAHD42 LSTHD8 STHD10 STHD14RJ
   HPAHD22 STHD8 STHDRJ HTT22
   HPAHD22-2P STHD8RJ STHD14 HTT16

   PROVIDE 6" EMBEDMENT INTO FOOTING FOR INTERIOR HOLDOWNS. PROVIDE 10" EMBEDMENT FOR EXTERIOR HOLDOWNS AT SLAB-ON-GRADE FOUNDATIONS (SLAB FOUNDATION WITH TURNED DOWN EDGE). PROVIDE 12" EMBEDMENT AT CONCRETE WALLS. EPOXY GROUT SHALL BE SIMPSON SET EPOXY OR ICBO APPROVED EQUAL.

D. CONCRETE

1. ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
2. REINFORCED CONCRETE DESIGN IS BY THE "ULTIMATE STRENGTH DESIGN METHOD:, ACI 318 – (LATEST EDITION).
3. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES:

LOCATION IN STRUCTURE	STRENGTH PSI	TYPE
SLABS ON GRADE	4000	HARD ROCK
FOOTINGS	3000	HARD ROCK
FOUNDATION WALLS	3000	HARD ROCK

   DESIGN BASED ON 2500 PSI, 28-DAY STRENGTH, THEREFORE, SPECIAL INSPECTION IS NOT REQUIRED.
4. CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL WITH THE FOLLOWING REQUIREMENTS:
   A. COMPRESSIVE STRENGTH AT AGE 28 DAYS AS SPECIFIED ABOVE.
   B. LARGE AGGREGATE-HARDROCK, ¾" MAXIMUM SIZE CONFORMING TO ASTM C-33
   C. CEMENT-ASTM C-150, TYPE II PORTLAND CEMENT,
   D. MAXIMUM SLUMP 5-INCHES.
   E. NO ADMIXTURES, EXCEPT FOR ENTRAINED AIR, AND AS APPROVED BY THE ENGINEER.
   F. MAXIMUM WATER/CEMENT RATIO = 0.50
5. CONCRETE MIXING OPERATIONS, ETC., SHALL CONFORM TO ASTM C-94.
6. PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATIONS.
7. CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:
   CONCRETE POURED DIRECTLY AGAINST EARTH – 3 INCHES CLEAR
   STRUCTURAL SLABS – ¾ INCHES CLEAR (TOP AND BOTTOM) FORMED
   CONCRETE WITH EARTH BACK FILL – 2 INCHES CLEAR
8. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
9. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NO PERMITTED EXCEPT AS SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
10. CONDUIT OR PIPE SIZE (O.D.) SHALL NOT EXCEED 30% OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATIONS OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENING ARE PROVIDED.
11. MODULUS OF ELASTICITY OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-460, SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1 OF ACI 318 FOR THE SPECIFIED 28-DAY STRENGTH.
12. SHRINKAGE OF CONCRETE, WHEN TESTED IN ACCORDANCE WITH ASTM C-157, SHALL NOT EXCEED 0,00040 INCHES/INCH.

E. REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 GRADE 60.
2. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICH EVER IS GREATER.
4. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
5. REBAR SPLICES ARE TO BE: CLASS "B".
6. REINFORCING SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE DRAWINGS.
7. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.

F. WOOD

1. FRAMING LUMBER:
   A. DOUGLAS FIR LARCH NO. 2 GRADE FOR 2x AND 4x FRAMING EXCEPT FOR 2x4, 2x6 STUDS USE DOUGLAS FIR STUD GRADE, U.N.O.
   B. 6x FRAMING DFL NO. 1 GRADE
2. BOLT HOLES SHALL BE 1/16" MAXIMUM LARGER THAN THE BOLT SIZE RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
3. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD, U.N.O. PLATE WASHERS ARE REQUIRED AT SHEAR WALLS, SEE SCHEDULE.
4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR. (1) BOLT SHALL BE LOCATED NOT MORE THAN 12 INCHES FROM EACH END OF A PLATE, OR FROM A NOTCH GREATER THAN ½ THE WITH OF THE PLATE.
5. DO NOT NOTCH JOISTS, RAFTERS OR BEAMS, EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS, AND DOUBLE PLATES IN INTERIOR BEARING, AND SHEAR WALLS SHALL NOT EXCEED ⅓ THE PLATE WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.
6. WHERE POST OCCURS ON 2nd FLOOR, ADD THE SAME POST UNDER IT ON 1st FLOOR AND ALSO ADD THE SAME POST BETWEEN FLOOR SHEATHING AND 1st FLOOR WALL TOP PLATE.
7. CONNECTION HARDWARE SHALL BE SIMPSON STRONG-TIE OR EQUAL. MUST BE I.C.B.O. APPROVED.
8. FASTENING SCHEDULE PER 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, TABLE 2304.9.1, U.N.O.
9. AT 2x4 TOP PLATES, HOLES LESS THAN 1⅜" DO NOT REQUIRE MODIFICATION. HOLES THAT EXCEED 1⅜" WILL REQUIRE A SIMPSON HSS STUD SHOE. AT 2x6 TOP PLATES, HOLES LESS THAN 2⅛" DO NOT REQUIRE MODIFICATION. HOLES THAT EXCEED 2⅛" WILL REQUIRE A SIMPSON HSS STUD SHOE. AT NON-SHEAR WALLS, WHERE HOLES MADE IN THE TOP PLATE THAT EXCEED THE SIZE OF THE HSS SHOE, STRAP ACROSS EACH PLATE WITH A CS16 STRAP w/ (12) 10d x1½" NAILS EACH END. LOT SPECIFIC LETTERS ARE REQUIRED FOR NON-SHEAR WALLS WHERE THE HOLE OR NOTCH IN THE PLATE EXCEEDS 4" IN LENGTH. LOT SPECIFIC LETTERS ARE REQUIRED FOR SHEAR WALLS WHERE THE HOLE IN THE TOP PLATE EXCEEDS 2¾" LENGTH OR WHERE THE HSS STUD SHOE CANNOT BE INSTALLED.
10. 16d SINKERS NOTED IN THESE DRAWINGS MAY BE REPLACED WITH 0.131 x 3¼ GUN NAILS PER THE FOLLOWING TABLES:

# OF 16d SINKERS	1	2	3	4	5	6	7	8	9	10	11	12
# OF 0.131 x 3¼ GUN NAILS	2	3	4	5	6	7	8	9	11	12	13	14

SPACE OF 16d SINKERS	2" O.C.	4" O.C.	6" O.C.	8" O.C.	10" O.C.	12" O.C.
SPACE OF 0.131 x 3¼ GUN NAILS	1½" O.C.	3½" O.C.	5" O.C.	7" O.C.	8½" O.C.	10½" O.C.

G. PREFABRICATED WOOD TRUSSES

1. PREFABRICATED WOOD ROOF TRUSSES SHALL BE AS DESIGNED BY THE TRUSS MFR. BRIDGING SIZE AND SPACING BY TRUSS MFR, U.N.O. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS, AND DESIGN CALCULATIONS SEALED BY AN ENGINEER, REGISTERED IN THE STATE OF UTAH, FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS. ALL CONNECTORS SHALL HAVE CURRENT I.C.B.O. APPROVAL.
2. TRUSS MANUFACTURER TO DESIGN TRUSSES FOR LATERAL LOAD (LAT. = XXX) IN POUND, AS SHOWN ON PLANS.
3. TRUSS MFR TO DESIGN TRUSSES TO SUPPORT MECHANICAL EQUIPMENT AS REQUIRED. ADDITIONAL TRUSSES MAY BE SUPPLIED AS REQUIRED.
4. ALL TRUSS TO TRUSS & TRUSS TO BEAM CONNECTORS PER TRUSS MFR.
5. WHERE POST IS ON TOP OF TRUSS, VERTICAL WEB SHALL BE PROVIDED UNDER POST. THE WEB SECTION AREA SHALL BE EQUAL TO OR LARGER THAN POST SECTION AREA. MULTI 2x4 COULD BE USED FOR THE WEB.
6. THE TOP CHORD OF ALL TRUSSES SHALL BE DFL OR SOUTHERN PINE OR SHALL HAVE A SPECIES WITH SPECIFIC GRAVITY EQUAL TO OR GREATER THAN 0.42.
7. TRUSS MFR SHALL LIMIT TOTAL LOAD DEFLECTIONS TO LESS THAN L/240 AND LIVE LOAD DEFLECTIONS TO LESS THAN L/360.
8. CONNECTION OF MFR TRUSSES w/ UPLIFT SHALL BE PER THE FOLLOWING TABLES:

STANDARD TRUSSES		
REACTIONS TO THE BEARING WALL OR BEAM BELOW:		
UPLIFT VALUE X # (LBS)	HARDWARE REQUIRED	NAILING REQUIRED
X ≤ 250#	NONE REQUIRED	UPLIFT IS RESISTED BY EXISTING NAILED CONNECTION OF TRUSS TO PLATE
250# < X ≤ 400#	H1	(6) 8d x 1½" INTO TRUSS, (4) 8d x 1½" INTO PLATE
400# < X ≤ 850#	H10	(8) 8d x 1½" INTO TRUSS, (8) 8d x 1½" INTO PLATE
850# < X ≤ 1245#	HST20	(12) 10d x 1½" INTO TRUSS, (12) 10d x 1½" INTO PLATE & STUD BLW
X > 1245#	SPECIAL DESIGN REQUIRED	NOTIFY ENGINEER OF SPECIFIC LOCATION OF UPLIFT ON TRUSS

GABLE END WALL TRUSS		
REACTIONS TO THE BEARING WALL OR BEAM BELOW:		
UPLIFT VALUE X # (LBS)	HARDWARE REQUIRED	NAILING REQUIRED
X ≤ 250#	NONE REQUIRED	UPLIFT IS RESISTED BY EXISTING NAILED CONNECTION OF TRUSS TO PLATE
250# < X ≤ 595#	LTP4	(6) 8d x 1½" INTO TRUSS, (4) 8d x 1½" INTO PLATE
595# < X ≤ 1295#	LSTA24	(9) 10d x 1½" INTO TRUSS, (9) 10d x 1½" INTO PLATE
1295# < X ≤ 2590#	(2) LSTA24	(9) 10d x 1½" INTO TRUSS, (EA. STRAP) (9) 10d x 1½" INTO PLATE (EA. STRAP)
X > 2590#	SPECIAL DESIGN REQUIRED	NOTIFY ENGINEER OF SPECIFIC LOCATION OF UPLIFT ON TRUSS

H. MANUFACTURED BEAMS

1. GLUED LAMINATED BEAMS (GLB)
   A. GLU-LAM BEAMS SHALL BE 24F-V4, (CONT. AND CANT'L GLU-LAM BEAMS SHALL BE 24F-V8) AND HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2400 psi, Fc (Perpendicular) = 650 psi, E=1,800,000 psi.
   B. ALL BEAMS SHALL BE FABRICATED USING EXTERIOR GLUE. FABRICATION AND HANDLING PER LATEST AITC AN WCCA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE.
   C. MOISTURE CONTENT SHALL BE LIMITED TO A MAXIMUM OF 12%
   D. ALL GLU-LAM BEAMS SHALL HAVE STANDARD CAMBER, U.N.O. ON PLANS.
2. LAMINATED STRAND LUMBER (1.3E OR 1.5E LSL)
   A. LSL BEAMS SHALL BE TIMBER STRAND LSL BY TRUS-JOIST OR ICBO APPROVED EQUAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
      1) FOR E = 1,300,000 psi, Fb = 1700 psi, Fv = 400 psi, Fc (Perpendicular) = 680 psi, Fc (Parallel) = 1400 psi
      2) FOR E = 1,500,000 psi, Fb = 2250 psi, Fv = 400 psi, Fc (Perpendicular) = 750 psi, Fc (Parallel) = 1950 psi
3. LAMINATED VENEER LUMBER (LVL)
   A. LVL BEAMS SHALL BE MICROLAM LVL BY TRUS-JOIST OR ICBO APPROVED EQUAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
      1) E = 1,900,000 psi, Fb = 2600 psi, Fv = 285 psi, Fc (Perpendicular) = 750 psi, Fc (Parallel) = 2510 psi
   B. MULTIPLE-PLY LVL BEAMS SHALL BE NAILED TOGETHER AS FOLLOWS:
      1) PROVIDE (2) ROWS OF 16d SINKERS AT 12" O.C. FOR BEAMS ≤ 11⅞" DEEP.
      2) PROVIDE (3) ROWS OF 16d SINKERS AT 12" O.C. FOR BEAMS > 11⅞" DEEP.
4. PARALLEL STRAND LUMBER (PSL)
   A. PSL BEAMS SHALL BE PARALLAM PSL BY TRUS-JOIST OR ICBO APPROVED EQUAL AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
      1) E = 2,000,000 psi, Fb = 2900 psi, Fv = 290 psi, Fc (Perpendicular) = 750 psi, Fc (Parallel) = 2900 psi

I. STRUCTURAL SHEATHING

1. ALL PLYWOOD SHALL BE C-D INTERIOR SHEATHING WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. USE A MIN. OF 4-PLY PLYWOOD. STAGGER JOINTS, AND NAILS. ORIENTED STRAND BOARD (O.S.B.) WITH EQUIVALENT PROPERTIES MAY REPLACE PLYWOOD.
2. ROOF SHEATHING
   ___ APA RATED SHEATHING SPAN RATING ___ EXPOSURE I, UNBLOCKED w/ 10d COMMON NAILS AT 6" O.C. ALL BOUNDARIES AND SUPPORTED PANEL EDGES 12" O.C. FIELD UNLESS NOTED OTHERWISE
3. ROOF SHEATHING AT BLOCKED DIAPHRAGM
   ___ APA RATED SHEATHING SPAN RATING ___ EXPOSURE I, BLOCKED w/ 10d COMMON NAILS AT 6" O.C. ALL BOUNDARIES AND SUPPORTED PANEL EDGES 12" O.C. FIELD UNLESS NOTED OTHERWISE
4. FLOOR SHEATHING AT UNBLOCKED DIAPHRAGM (STANDARD, U.N.O.)
   ___ APA RATED STIRD-I-FLOOR SPAN RATING ___ O.C. EXPOSURE I T&G, UNBLOCKED w/ 10d COMMON NAILS AT 6" O.C. ALL BOUNDARIES AND SUPPORTED PANEL EDGES, 12" O.C. FIELD UNLESS NOTED OTHERWISE OPTION: QUIK DRIVE #8 WSNTL WOOD SCREWS MAY B USED IN LIEU OF 10d COMMON NAILS ABOVE. SPACING SHALL BE SAME AS SHOWN FOR 10d COMMON NAILS PER ICBO REPORT ER-5053.
5. FLOOR SHEATHING AT BLOCKED DIAPHRAGM (WHERE NOTED ON PLANS)
   ___ APA RATED STIRD-I-FLOOR SPAN RATING ___ O.C. EXPOSURE I T&G, BLOCKED w/ 10d COMMON NAILS AT 6" O.C. ALL BOUNDARIES AND SUPPORTED PANEL EDGES, 12" O.C. FILED UNLESS NOTED OTHERWISE OPTION: QUIK DRIVE #8 x 2¼" SCREWS MAY BE USED IN LIEU OF 16d SINKERS ABOVE. SPACING SHALL BE SAME AS SHOWN FOR 10d COMMON NAILS PER ICBO REPORT ER-5053
6. SHEAR WALL SHEATHING
   STRUCTURAL II PLYWOOD OR O.S.B. PANEL BLOCKED WITH THE NAILING PER SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE

J. SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DRAWINGS SHALL BE FLAGGED FOR REVIEW.
3. VERIFY ALL DIMENSIONS WITH ARCHITECT
4. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE RED-LINED OR FLAGGED BY SUBMITTING PARTIES, SHALL BE CONSIDERED APPROVED AFTER ENGINEERS REVIEW, U.N.O.
5. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO THE ORIGINAL DRAWINGS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
6. THE SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWING.
7. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY THE OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.
8. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR.

K. LIGHT GAGE STEEL FRAMING

1. ALL STEEL STUDS SHALL BE THE TYPE SIZE AND GAGE SHOWN ON THE PLANS.
2. 16 AND 14 GAGE STUDS AND JOISTS SHALL BE FORMED FROM MILL CERTIFIED "PRIME STEEL" CONFORMING TO ASTM A570 GRADE 50 STEEL. 18 AND 20 GAGE STUDS AND ALL TRACK, BRIDGING, END ENCLOSURES, AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM 611, GRADE C WITH A MINIMUM YIELD STRENGTH OF 33,000 P.S.I.
3. ALL STUDS, TRACK, AND ACCESSORIES SHALL BE GALVANIZED, OR PRIMED WITH RUST-INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-636C.
4. THE PHYSICAL AND STRUCTURAL PROPERTIES LISTED BY AISI SHALL BE CONSIDERED THE MINIMUM FOR ALL FRAMING MEMBERS.
5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS, OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED.
6. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT ENDS OF THE STUDS ARE POSITIONED AGAINST THE INSIDE TRACK WEB, PRIOR TO STUD AND TRACK ATTACHMENT.
7. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE PLANS.
8. COMPLETE UNIFORM AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM TRACK.
9. AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT WELDED OR SPLICED TOGETHER.
10. STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF BOTH UPPER AND LOWER TRACKS.

L. STRUCTURAL STEEL

1. HOT-ROLLED STRUCTURAL STEEL SHAPES SHALL BE PER ASTM A992, GRADE 50 MIN. (fy = 50 ksi).
2. STRUCTURAL STEEL PLATES SHALL BE PER ASTM A36 MIN. (fy = 36 ksi).
3. H.S.S. – HOLLOW STRUCTURAL SECTIONS SHALL BE PER ASTM A500 GRADE B MIN. (Fy = 46 ksi).
4. NUTS AND BOLTS IN STRUCTURAL STEEL CONNECTIONS SHALL BE PER ASTM A325N, WITH HARDENED WASHERS, AND SHALL BE ¾" DIA. MIN. UNLESS NOTED OTHERWISE.
5. ANCHOR BOLTS SHALL BE PER ASTM F1554-36, U.N.O.
6. WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODES. WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN A SHOP APPROVED BY THE BUILDING OFFICIAL. ALL WELDS AT MOMENT FRAME CONNECTIONS, AND BRACE CONNECTIONS SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT -20°F AND 40 FT-LB AT 70°.
7. ALL STEEL SHALL BE PROPERLY PRIMED AND PAINTED SEE ARCHITECTURAL FOR COLOR.
8. ALL STEEL BEAMS SHALL HAVE WEB STIFFENERS ON BOTH SIDES AT ALL BEARING LOCATIONS, AND AT CONCENTRATED LOADS WEB STIFFENER SHALL BE SAME THICKNESS AS WEB OF BEAM TYPICAL UNLESS NOTED OTHERWISE.
9. ALL STEEL JOIST REQUIREMENTS AND DETAILS SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE AND MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
10. ALL JOISTS WITH TOTAL LOAD/LIVE LOAD DESIGNATION ARE TO BE DESIGNED BY SUPPLIER WITH ALL LOADS SHOWN ON DRAWINGS.
11. JOIST BRIDGING, BRACING, ETC. SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
12. ANY CONNECTIONS NOT DETAILED ON PLANS SHALL BE PROVIDED BY STEEL DETAILER AND SUBMITTED TO ENGINEER FOR APPROVAL.

M. CONCRETE MASONRY UNITS (CMU)

1. ALL PHASES OF WORK PERTAINING TO THE MASONRY CONSTRUCTION SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530 – LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS AND SPECIFICATIONS
2. REINFORCED CONCRETE MASONRY UNIT (CMU) DESIGN IS BY THE "ALLOWABLE STRESS DESIGN" METHOD. (ACI 530 – LATEST EDITION)
3. CONCRETE MASONRY UNIT (CMU) DESIGNED FOR f'm = 1500 PSI MIN. AND SHALL MEET APPROVAL OF OWNER, ARCHITECT AND PROJECT SPECIFICATIONS. CONCRETE MASONRY UNIT (CMU) AT NEW SHEAR WALL IN ASSEMBLY HALL (AT WEST END OF NORTH WALL) DESIGNED FOR f'm = 2,500 PSI. MIN. AND SHALL MEET APPROVAL OF OWNER, ARCHITECT AND PROJECT SPECIFICATIONS..
4. EXCEPT AS NOTED BELOW, MASONRY UNITS SHALL BE GRADE N-II UNITS, 1900 PSI, CONFORMING TO ASTM DESIGNATION C-90. (LATEST EDITION) MASONRY UNITS AT NEW SHEAR WALL IN ASSEMBLY HALL (AT WEST END OF NORTH WALL) SHALL BE GRADE N-11 UNITS, 3,750 PSI, CONFORMING TO ASTM DESIGNATION C90. (LATEST EDITION)
5. PORTLAND CEMENT SHALL CONFORM TO ASTM DESIGNATION C-150, SAME TYPE AS SPECIFIED FOR CONCRETE.
6. MORTAR MIX SHALL CONFORM TO ASTM DESIGNATION C-270, AND TO THE REQUIREMENTS OF I.B.C. TABLE 2103.8 (1), TYPE S, & PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.
7. GROUT SHALL CONFORM TO REQUIREMENTS OF I.B.C. TABLE 2103.12 FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SECRETION. GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. (3,500 PSI AT NEW SHEAR WALL AT ASSEMBLY HALL)
8. REINFORCE MASONRY IN BOTH DIRECTIONS AS SPECIFIED ON THE PLANS.
9. GROUT FULL ALL BLOCK CELLS WITH REINFORCING, ALIGN CELLS TO PRESERVE UNOBSTRUCTED VERTICAL CELLS OF 2½" x 3" MINIMUM.
10. PROVIDE A MINIMUM OF ½" GROUT BETWEEN MAIN REINFORCING & MASONRY UNITS.
11. MAXIMUM GROUT POUR HEIGHT IS 5 FEET. GROUT SHALL BE PLACED USING LOW LIFT CONSTRUCTION PROCEDURES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL LAYOUT AND PLACEMENT OF REINFORCING STEEL. COORDINATE WITH MASONRY MANUFACTURER/SUPPLIER AS REQUIRED.
13. DOWEL REINFORCING IN COLUMNS AND WALLS INTO THE FOOTING OR STRUCTURE BELOW WITH REBAR OF THE SAME SIZE AND SPACING AS REQUIRED ABOVE. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CMU CORES CONTAINING REINFORCING STEEL.
14. ALL REQUIRED EMBEDDED ANCHOR BOLTS, EMBED PLATES, BEARING PLATES, ETC. SHALL BE INSTALLED IN FULLY GROUTED BLOCK CELLS.
15. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE & HEIGHT OF UNITS, LAYING PATTERN & JOINT TYPE.

SHEET INDEX

SHT #	SHEET NAME
S-101	STRUCTURAL GENERAL NOTES
S-201	FOUNDATION PLAN
S-301	2ND FLOOR FRAMING PLAN
S-302	ROOF FRAMING PLAN
S-401	STRUCTURAL DETAILS

N. STATEMENT OF SPECIAL INSPECTIONS

1. PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE, SECTION 1704.
2. WHERE SPECIAL INSPECTION IS REQUIRED, IT SHALL BE PERFORMED BY A REGISTERED DEPUTY INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE GOVERNING JURISDICTION. COPIES OF THE INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND ARCHITECT/ENGINEER FOR REVIEW.
3. THE TYPE AND FREQUENCE OF SPECIAL INSPECTION, STRUCTURAL TESTING AND SUBSEQUENT REPORTING CONFORMING TO THE REQUIREMENTS OF IBC SECTION 1704, 1707, 1708 SHALL BE SUBMITTED BY THE INSPECTION AND TESTING AGENCIES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR APPROVAL.
4. STRUCTURAL OBSERVATIONS AND SUBSEQUENT REPORTING OF GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS SHALL BE PERFORMED PERIODICALLY BY THE ENGINEER IN RESPONSIBLE CHARGE AT HIS/HER DISCRETION OR WHEN SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
5. THE TESTING LABORATORY SHALL BE RETAINED BY THE OWNER AND BE SATISFACTORY TO THE GOVERNING CODE AUTHORITY TO PERFORM REQUIRED TESTS AND INSPECTIONS OF THIS CONTRACT AND APPLICABLE CODE.
6. SUBMIT LABORATORY TEST REPORTS CERTIFYING MATERIALS ARE UNIDENTIFIABLE TESTED STOCK TO THE OWNER, TESTING LABORATORY, ARCHITECT / STRUCTURAL ENGINEER AND UPON REQUEST TO THE GOVERNING CODE AUTHORITY ON A MONTHLY BASIS. IF LABORATORY TEST REPORTS CANNOT BE MADE AVAILABLE, TESTING LABORATORY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT / STRUCTURAL ENGINEER. CONTRACTOR SHALL PAY TESTING LABORATORY FOR COSTS RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS OR MATERIALS FURNISHED WITHOUT LABORATORY TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, OR MATERIALS REPLACING DEFICIENT MATERIALS.
7. THE FOLLOWING ELEMENTS OF GENERAL CONSTRUCTION REQUIRE SPECIAL INSPECTION:

A. STEEL CONSTRUCTION

PERFORM THE FOLLOWING TESTS AND OR INSPECTIONS OF THE STEEL CONSTRUCTION IN ACCORDANCE WITH TABLE 1704.3:

1. MATERIAL VERIFICATION OF HIGH-STENGTH BOLTS, NUTS AND WASHERS – PERIODIC
2. INSPECTION OF HIGH STRENGTH BOLTING – PERIODIC.
3. SHOP WELDING UNLESS PERFORMED ON PREMISES OF AN APPROVED FABRICATOR AS DEFINED IN IBC SECTION 1704.2 – PERIODIC.
4. FIELD WELDING, INCLUDING SHEAR STUDS AND LIGHT GAUGE STEEL CONTINUOUS.
   EXCEPTION: SINGLE PASS FILLET WELDS ≤ 5/16", FLOOR DECK WELDS, AND ROOF DECK WELDS, ONLY REQUIRE PERIODIC SPECIAL INSPECTION.
5. STRUCTURAL STEEL CONNECTIONS IN ACCORDANCE WITH IBC SECTION 1704.3 – PERIODICALLY DURING ERECTION.

B. CMU (CONCRETE MASONRY UNITS) CONSTRUCTION

PROVIDE LEVEL 1 SPECIAL INSPECTION OF THE FOLLOWING ITEMS IN ACCORDANCE WITH SECTION 1704.5 AND TABLE 1704.5.1.

1. PROPORTIONS OF SITE PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, AND LOCATION OF REINFORCEMENT AND CONNECTORS. – PERIODIC
2. SIZE AND LOCATION OF STRUCTURAL ELEMENTS, TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION, SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, PROTECTION MASONRY DURING COLD WEATHER (TEMPERATURES BELOW 40°F) OR HOT WEATHER (TEMPERATURES ABOVE 90°F), AND COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS. – PERIODIC
3. WELDING OF REINFORCING BARS, GROUT PLACEMENT, AND PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS. – CONTINUOUS
4. CLEANLINESS OF GROUT SPACE, PLACEMENT OF REINFORCEMENT AND CONNECTORS, PROPORTIONS OF SITE-PREPARED GROUT, AND CONSTRUCTION OF MORTAR JOINTS. – PERIODIC

C. SPECIAL CASES:

1. EPOXY AND GROUT SET BOLTS AND REINFORCING BARS – IN ACCORDANCE WITH IBC SECTION 1704.13 – PERIODICALLY PRIOR TO INSTALLATION.
2. EXCAVATION AND BACK-FILLING. IN ACCORDANCE WITH IBC SECTION 1704.7 – PERIODICALLY DURING GRADING, FILL PLACEMENT AND COMPACTION.

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(801) 565-8580

JOB # U915-085-091

BUILDING NAME:
FILLMORE ARMORY
UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET
ISSUE DATE: 12/14/2009
DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: GJJ
CHK'D BY: CDJ

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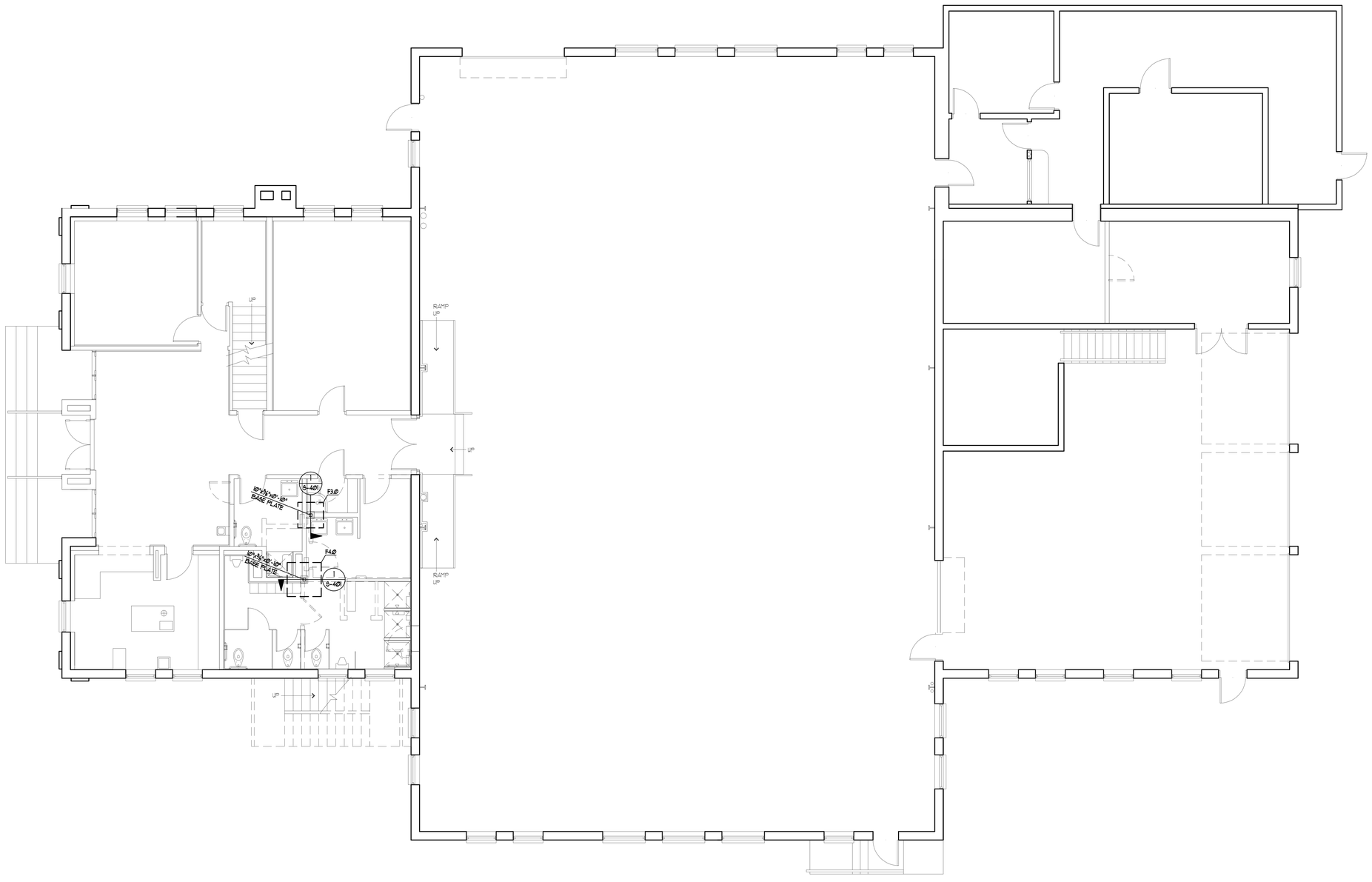
SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S-101

SPOT FOOTINGS (1500 psf)												
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				REMARKS
				NO	SIZE	LENGTH	SPACING	NO	SIZE	LENGTH	SPACING	
F2.0	2'-0"	2'-0"	12"	3	#4	1'-6"	EQ	3	#4	1'-6"	EQ.	EACH WAY BOTTOM
F3.0	3'-0"	3'-0"	12"	4	#4	2'-6"	EQ	4	#4	2'-6"	EQ.	EACH WAY BOTTOM
F4.0	4'-0"	4'-0"	12"	6	#4	3'-6"	EQ	6	#4	3'-6"	EQ.	EACH WAY BOTTOM



FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

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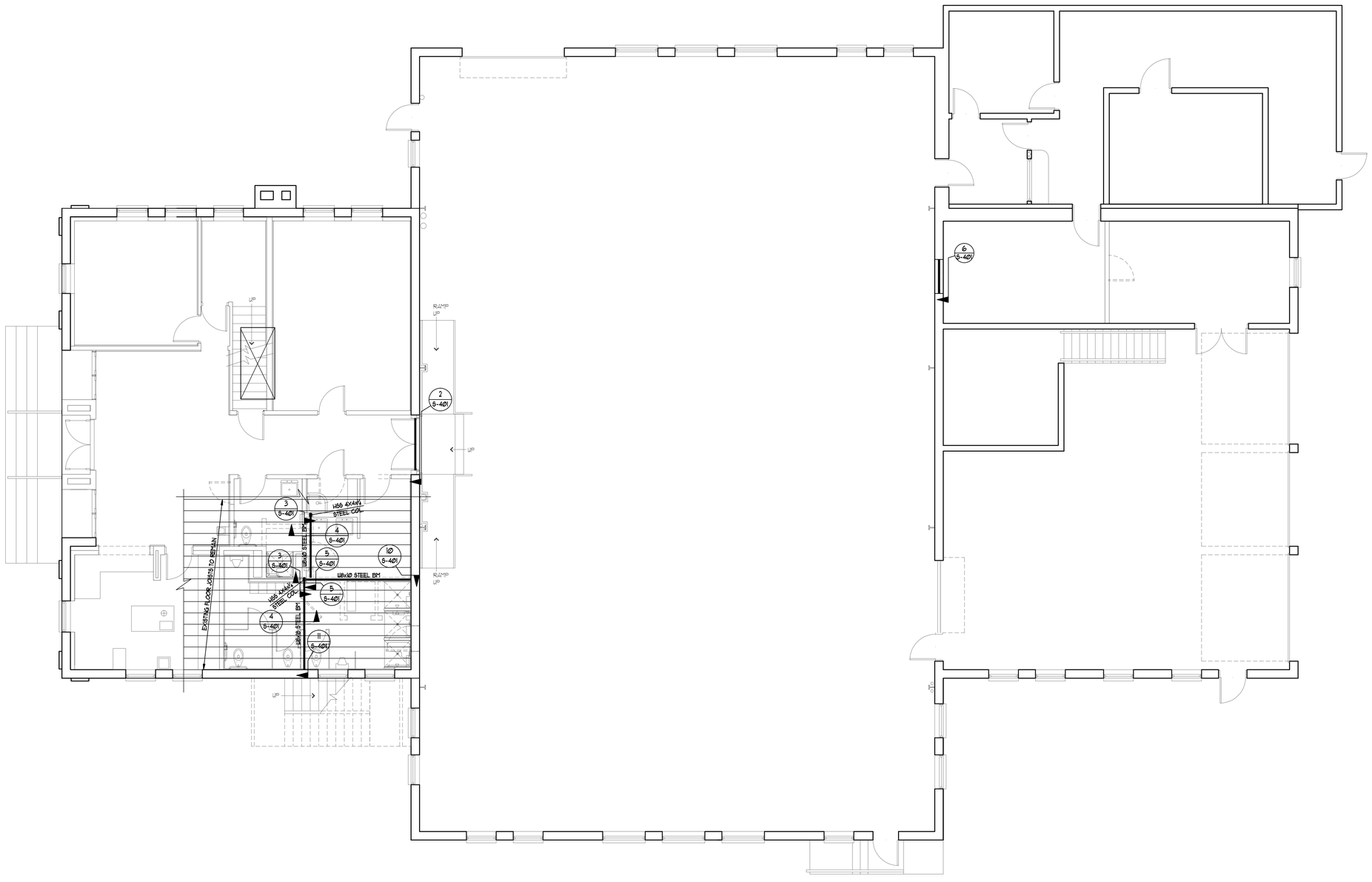
FOUNDATION PLAN

SHEET NUMBER

S-201



2ND FLOOR FRAMING PLAN

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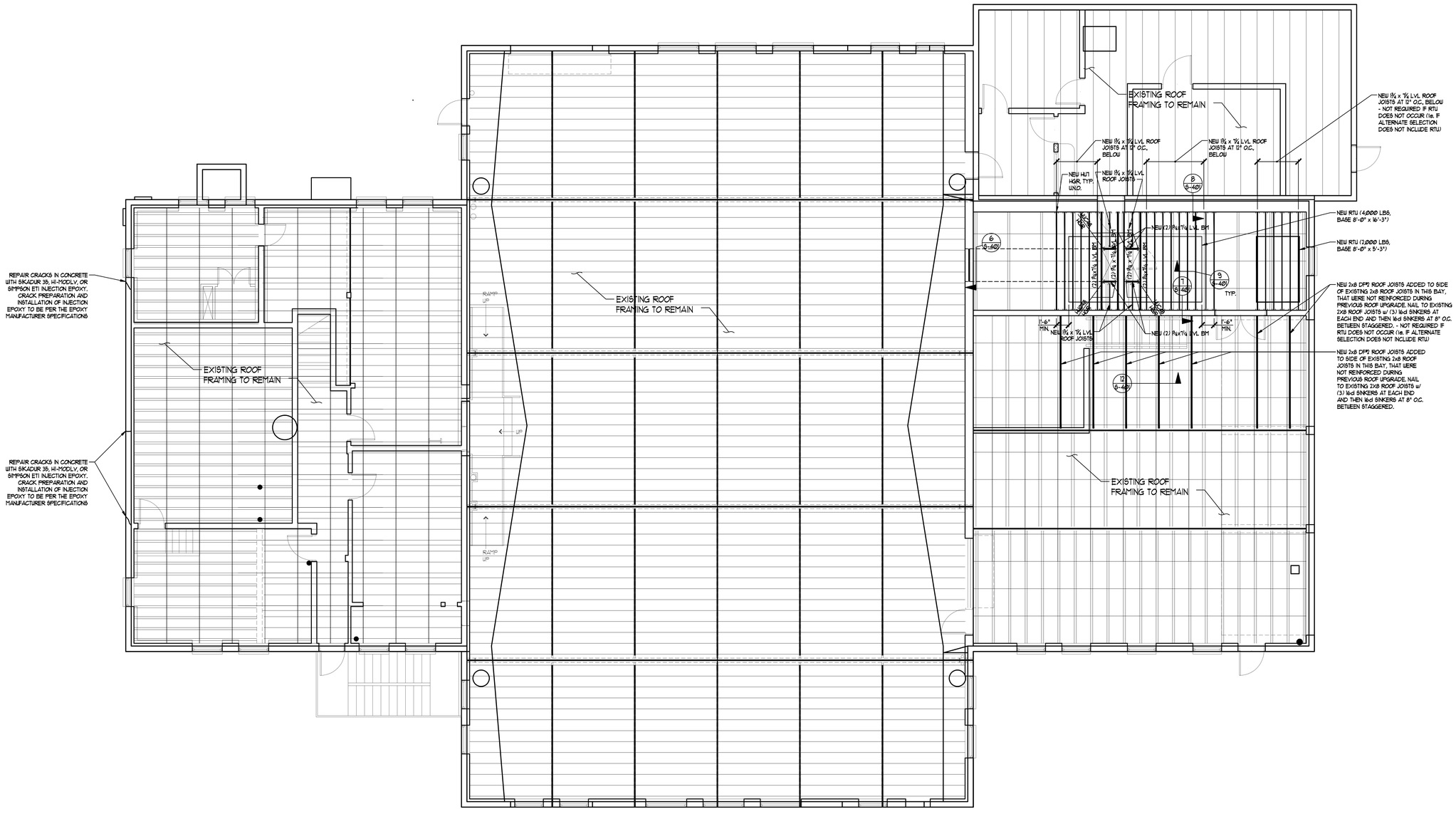
2ND FLOOR FRAMING PLAN

SHEET NUMBER

S-301



ROOF FRAMING PLAN

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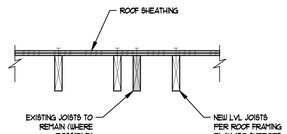
SHEET TITLE

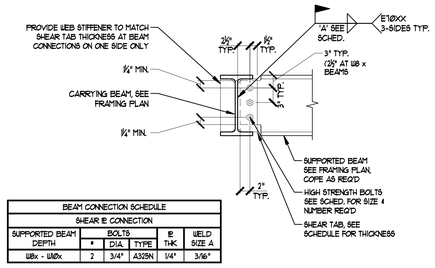
ROOF FRAMING PLAN

SHEET NUMBER

S-302

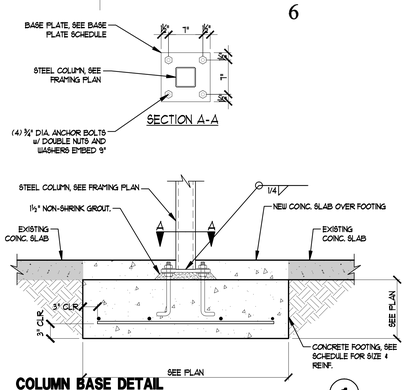


FRAMING DETAIL (9)
N.T.S.

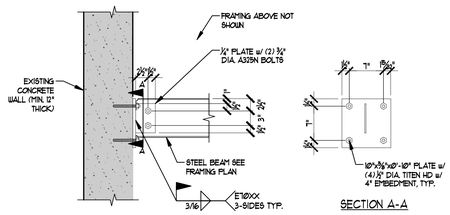


BEAM CONNECTION SCHEDULE					
SHEAR BE CONNECTION					
SUPPORTED BEAM DEPTH	BOLTS			BE THK	WELD SIZE A
	#	DIA.	TYPE		
W8x - W20x	2	3/4"	A325N	1/4"	3/16"

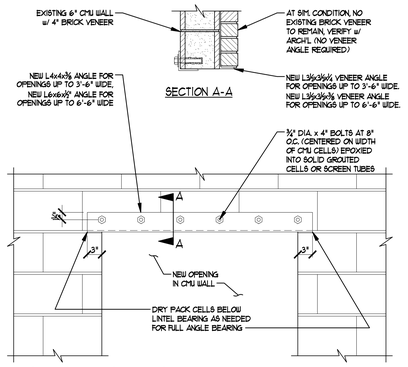
TYP. BEAM TO BEAM SHEAR TAB CONN. (5)
N.T.S.



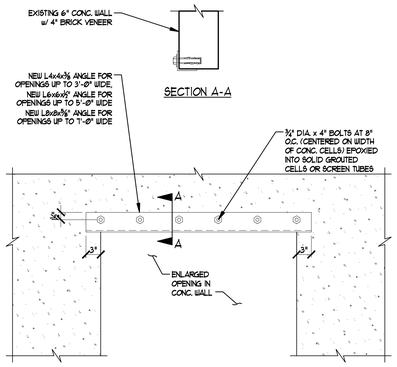
COLUMN BASE DETAIL (1)
N.T.S.



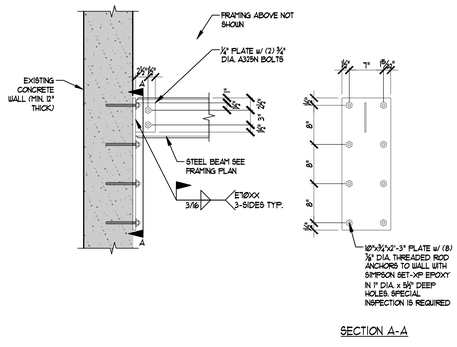
FRAMING DETAIL (10)
N.T.S.



CMU OPENING RETROFIT LINTEL (6)
N.T.S. CM005



CONC. OPENING RETROFIT LINTEL (2)
N.T.S.



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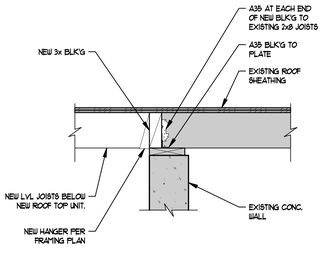

FRAMING DETAIL (7)
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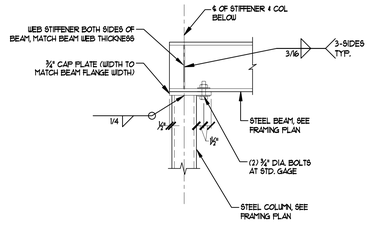
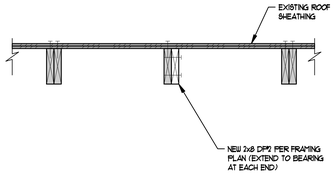


STEEL BEAM ON STEEL COLUMN DETAIL (3)
N.T.S. ST010



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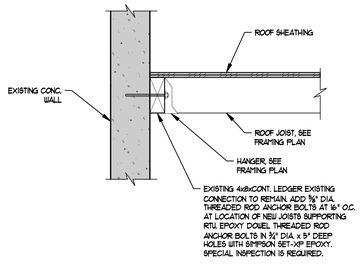
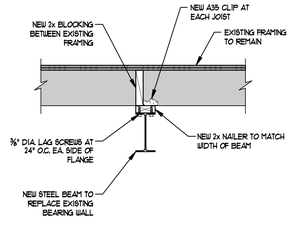


NEW JOIST TO EXISTING WALL DETAIL (8)
N.T.S.



FRAMING DETAIL (4)
N.T.S.

jsa architects
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CONSULTANT:

LR. NELSON ENGINEERS
51 WEST 9000 SOUTH
SANDY, UTAH 84070
(801) 565-8580

JOB # U915-085-091

BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: GJJ
CHK'D BY: CDJ
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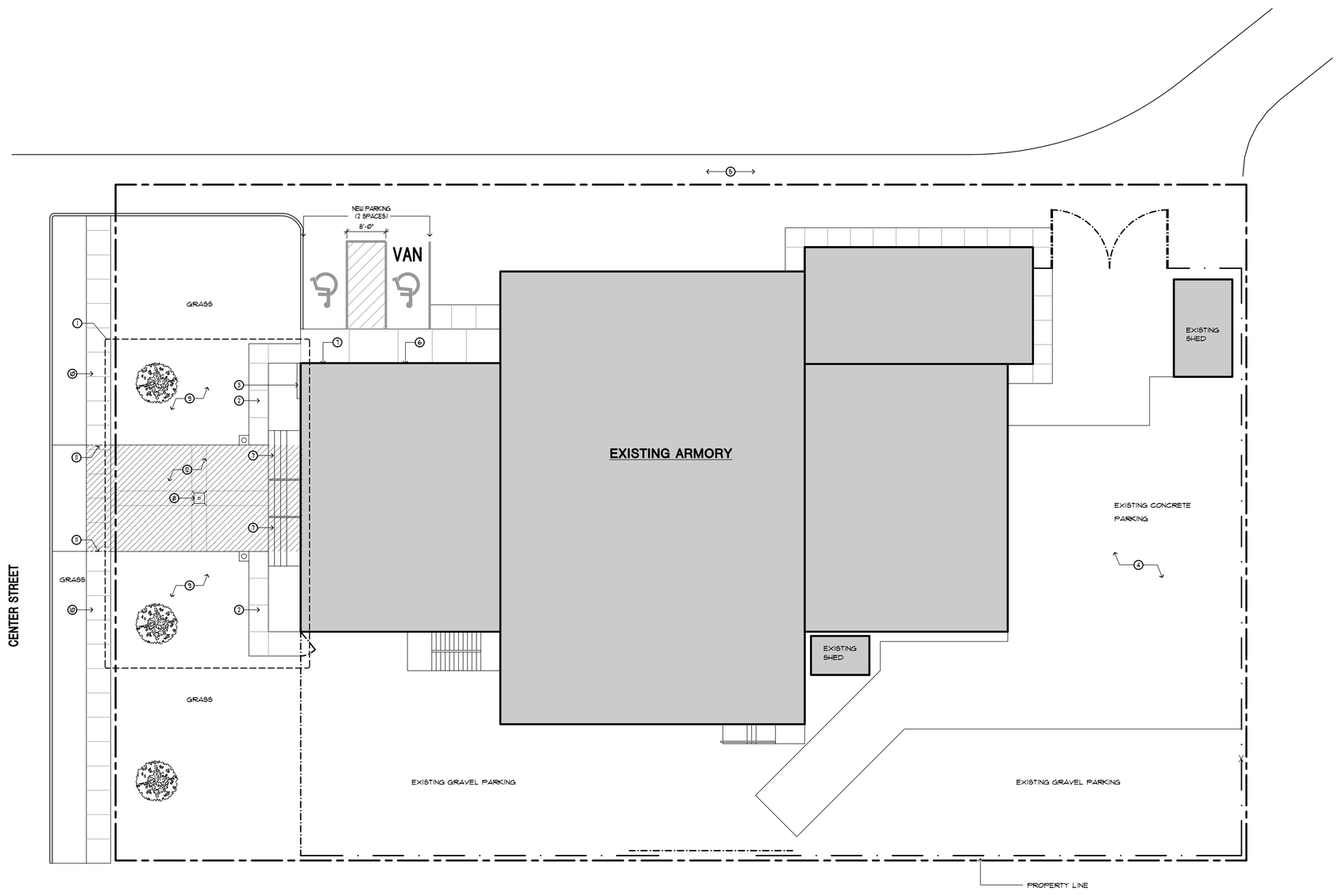
SHEET TITLE

STRUCTURAL DETAILS

SHEET NUMBER

S-401



SITE PLAN
SCALE: 1" = 10'-0"

N

SITE PLAN KEY NOTES

SECTION		DESCRIPTION
00000	1	NEW LAYOUT IN THIS AREA. SEE LANDSCAPING DRAWINGS.
00000	2	REMOVE WALK
00000	3	EXISTING GAS METER
00000	4	EXISTING CONCRETE PARKING AREA TO REMAIN.
00000	5	EXISTING ASPHALT ACCESS ROAD.
00000	6	ACCESSIBLE SIGNAGE ON WALL OF BUILDING - SEE C1G001 (SIM.)
00000	7	REMOVE STAIRS
00000	8	PROTECT FLAG
00000	9	REMOVE TURF
00000	10	PROTECT WALK
00000	11	SAW CUT TO REMOVE CONCRETE
00000	12	CONCRETE TO BE REMOVED

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

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CAD PROJECT NO: 09067
CAD DWG FILE:
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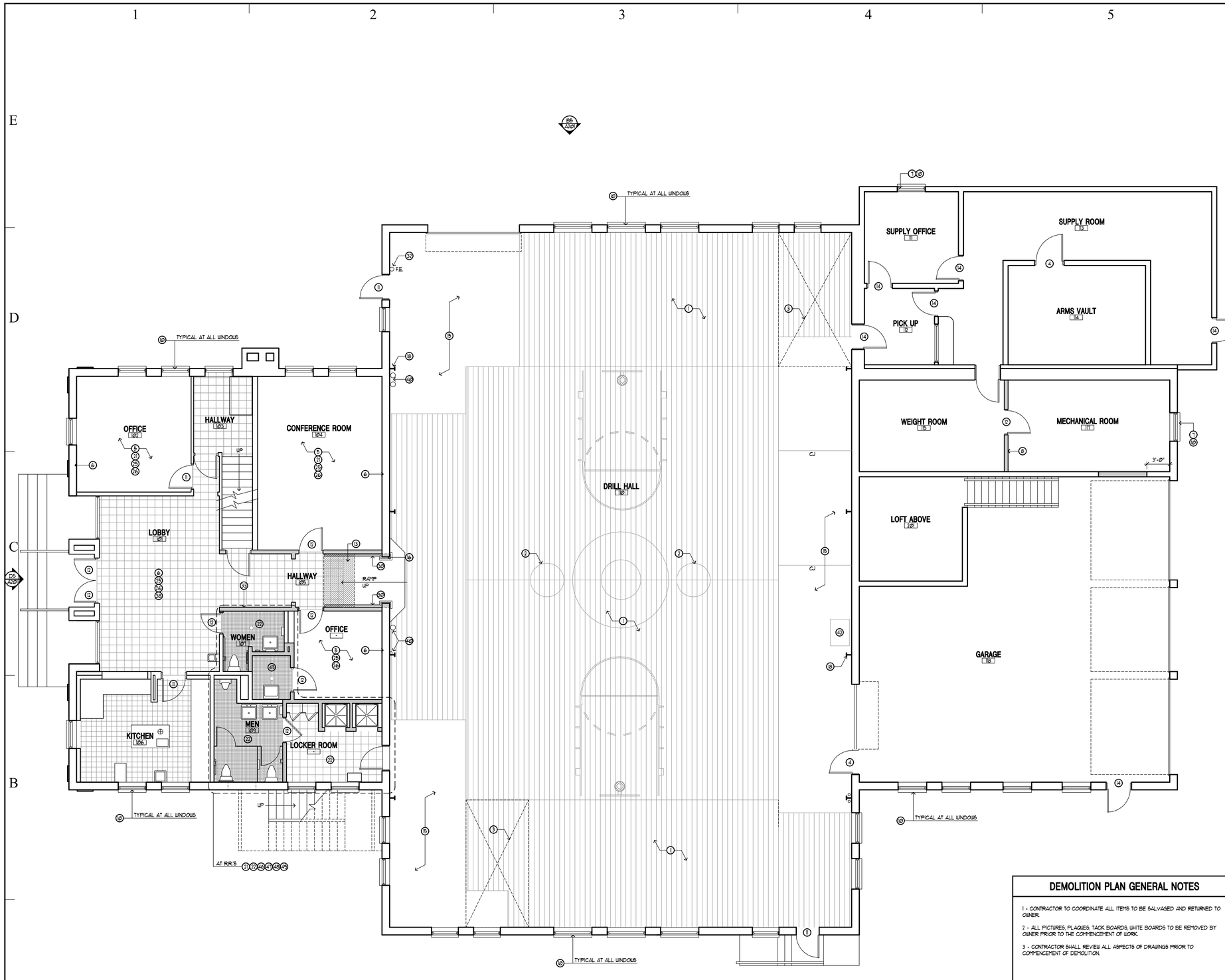
SHEET TITLE
SITE PLAN

SHEET NUMBER
A-101



EXISTING MAIN LEVEL - DEMOLITION PLAN
SCALE: 3/16" 1'-0"

DEMOLITION FLOOR/CEILING PLAN LEGEND

- EXISTING WALLS TO REMAIN
- SHADE INDICATES EXISTING WALL TO BE REMOVED- COORDINATE WITH FLOOR PLAN FOR EXTENT OF WALL TO BE REMOVED
- EXISTING CEILING TILES TO BE REMOVED
- EXISTING PLASTER/GYP. BD. CEILING TO BE REMOVED
- EXISTING CEILING TO REMAIN
- BUILDING GRID TAG
- INSTRUCTION KEYNOTES
- FINISH MATERIAL KEYNOTE
- DETAIL REFERENCE
- XXXXXXXX-XX SPECIFICATION KEYNOTE
- (E) EXISTING
- (N) NEW
- (R) REMOVE, SEE REUSE LEGEND
- REVISION TAG

DEMOLITION FLOOR/CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	EXISTING WOOD FLOOR SYSTEM TO BE REMOVED DOWN TO SUPPORTING SUB-FLOOR.
2	CUT OUT IMAGE AND TURN OVER TO OWNER. COORDINATE CUT SIZE W/OWNER. KEEP SLATS TOGETHER.
3	REMOVE EXISTING CONCRETE SLAB - THIS AREA TO HAVE A UNIFORM CONCRETE SUB-FLOOR TO BE POURED BACK TO ALLOW FOR A NEW WOOD FLOORING SYSTEM.
4	EXISTING DOOR FRAME, HARDWARE TO REMAIN.
5	REMOVE EXISTING CARPET, PAD, ETC.
6	REMOVE EXISTING RUBBER BASE IN ENTIRE ROOM UNLESS NOTED OTHERWISE.
7	REMOVE SECURITY GRILL.
8	REMOVE EXISTING STUD WALL, FULL HEIGHT.
9	REMOVE EXISTING MASONRY OR CONC. WALL, FULL HEIGHT WALL. VERIFY WITH STRUCTURAL DRAWINGS AND FIELD CONDITIONS PRIOR TO REMOVAL OF WALL.
10	REMOVE EXISTING WINDOW. WINDOW FRAME, GLAZING, BLOCKING, BLINDS, ETC.
11	REMOVE EXISTING DOOR, HINGES, AND HARDWARE. FRAME TO REMAIN.
12	REMOVE EXISTING DOOR, DOOR FRAME, HINGES, AND HARDWARE.
13	HATCHED AREA SHOWS CONC. SLAB 4" MIN. THICK TO BE REMOVED TO ALLOW NEW FLOOR SLAB TO BE POURED BACK AS SHOWN ON SHT. A-108.
14	EXISTING DOOR AND HINGES TO REMAIN AND NEW HARDWARE TO BE INSTALLED.
15	EXISTING CONCRETE SLAB.
16	SAW CUT WALL TO BE REMOVED FOR NEW DOOR OPENING. VERIFY WITH ARCHITECTURAL PLAN FOR EXACT DIMENSIONS.
17	EXISTING PLASTER AND/OR GYPSUM BOARD CEILING TO BE REMOVED.
18	EXISTING EXPOSED METAL COLUMN TO REMAIN.
19	REMOVE EXISTING MECHANICAL CEILING REGISTER. COORDINATE WITH MECHANICAL DRAWINGS.
20	REMOVE EXISTING MECHANICAL REGISTER/DUCTWORK, ETC. COORDINATE WITH MECHANICAL DRAWINGS.
21	REMOVE MECHANICAL UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
22	REMOVE EXISTING PLUMBING FIXTURES.
23	REMOVE EXISTING GAS PIPING.
24	REMOVE EXISTING PLUMBING.
25	REMOVE ALL EXISTING ELECTRICAL WIRE MOLD/CONDUIT SURFACE MOUNTED, COORDINATE WITH ELECTRICAL.
26	REMOVE ALL EXISTING SURFACE MOUNTED CONDUIT FOR FIRE ALARM, ETC.
27	REMOVE EXISTING SURFACE MOUNTED LIGHTS, COORDINATION WITH ELECTRICAL.
28	REMOVE EXISTING SURFACE MOUNTED WALL LIGHTS.
29	REMOVE EXISTING RECESSED LIGHTING.
30	REMOVE EXISTING HANDRAIL.
31	REMOVE EXISTING THERMOSTAT, COORDINATE WITH MECHANICAL DRAWINGS.
32	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. REPAIR AS NECESSARY.
33	ELECTRICAL PANEL TO BE REMOVED - SEE RELOCATION IN ELECTRICAL DRAWINGS.
34	EXISTING LIGHTING TO REMAIN.
35	REMOVE EXISTING FIRE ALARM PANEL, COORDINATE WITH ELECTRICAL.
36	EXISTING METAL STRUCTURE.
37	REMOVE EXISTING LIGHT.
38	REMOVE VINYL FLOOR TILE.
39	EXISTING DRINKING FOUNTAIN.
40	EXISTING PIPE TO REMAIN.
41	EXISTING SHELVING TO REMAIN.
42	EXISTING ACCESS PANEL.
43	REMOVE EXISTING JANITOR'S SINK, SURROUND, AND PLUMBING FIXTURES. COORDINATE WITH PLUMBING.
44	NOT USED.
45	REMOVE EXISTING ROOF LADDER.
46	REMOVE EXISTING BATHROOM ACCESSORIES, GRAB BAR, MIRROR, PAPER TOUEL, SOAP DISPENSER, ETC.
47	REMOVE EXISTING WALL TILE.
48	REMOVE EXISTING TILE FLOOR, CURBS, ETC.
49	REMOVE EXISTING TOILET PARTITIONS.

DEMOLITION PLAN GENERAL NOTES

1 - CONTRACTOR TO COORDINATE ALL ITEMS TO BE SALVAGED AND RETURNED TO OWNER.

2 - ALL PICTURES, PLAQUES, TACK BOARDS, WHITE BOARDS TO BE REMOVED BY OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3 - CONTRACTOR SHALL REVIEW ALL ASPECTS OF DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

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	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
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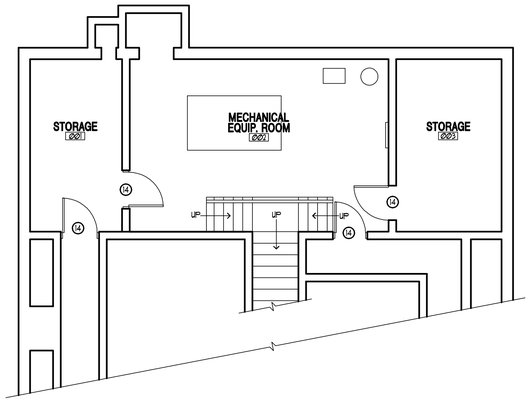
SHEET TITLE

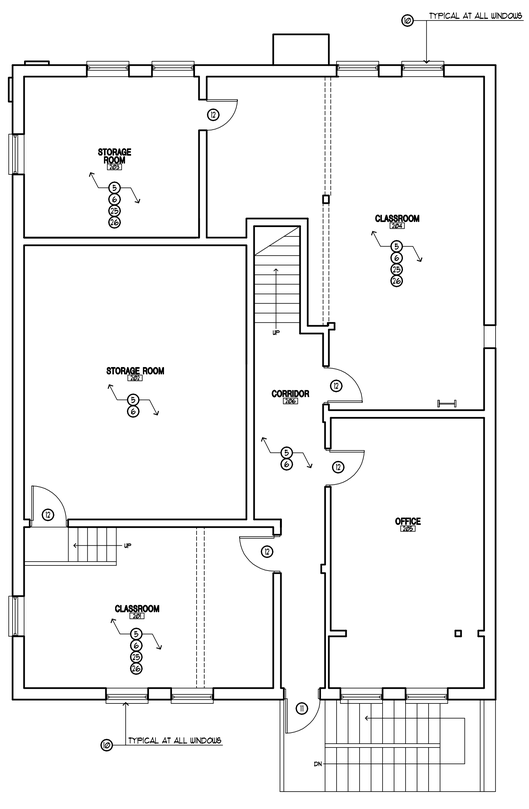
EXISTING MAIN LEVEL DEMO. PLAN

SHEET NUMBER

A-102



EXISTING BASEMENT - DEMOLITION PLAN
SCALE: 3/16" 1'-0"
D5 A102



EXISTING UPPER LEVEL - DEMOLITION PLAN
SCALE: 3/16" 1'-0"
A5 A103

DEMOLITION PLAN GENERAL NOTES

1 - CONTRACTOR TO COORDINATE ALL ITEMS TO BE SALVAGED AND RETURNED TO OWNER.

2 - ALL PICTURES, PLAQUES, TACK BOARDS, WHITE BOARDS TO BE REMOVED BY OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3 - CONTRACTOR SHALL REVIEW ALL ASPECTS OF DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.

DEMOLITION FLOOR/CEILING PLAN LEGEND

- EXISTING WALLS TO REMAIN
- SHADE INDICATES EXISTING WALL TO BE REMOVED- COORDINATE WITH FLOOR PLAN FOR EXTENT OF WALL TO BE REMOVED
- EXISTING CEILING TILES TO BE REMOVED
- EXISTING PLASTER/GYP. BD. CEILING TO BE REMOVED
- EXISTING CEILING TO REMAIN
- # BUILDING GRID TAG
- INSTRUCTION KEYNOTES
- FINISH MATERIAL KEYNOTE
- DETAIL REFERENCE
- XXXXXXXX-XX SPECIFICATION KEYNOTE
- (E) EXISTING
- (N) NEW
- (R) REMOVE, SEE REUSE LEGEND
- REVISION TAG

DEMOLITION FLOOR/CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	EXISTING WOOD FLOOR SYSTEM TO BE REMOVED DOWN TO SUPPORTING SUB-FLOOR.
2	CUT OUT IMAGE AND TURN OVER TO OWNER. COORDINATE CUT SIZE W/OWNER. KEEP SLATS TOGETHER.
3	REMOVE EXISTING CONCRETE SLAB - THIS AREA TO HAVE A UNIFORM CONCRETE SUB-FLOOR TO BE POURED BACK TO ALLOW FOR A NEW WOOD FLOORING SYSTEM.
4	EXISTING DOOR FRAME, HARDWARE TO REMAIN.
5	REMOVE EXISTING CARPET, PAD, ETC.
6	REMOVE EXISTING RUBBER BASE IN ENTIRE ROOM UNLESS NOTED OTHERWISE.
7	REMOVE SECURITY GRILL.
8	REMOVE EXISTING STUD WALL, FULL HEIGHT.
9	REMOVE EXISTING MASONRY OR CONC. WALL, FULL HEIGHT WALL. VERIFY WITH STRUCTURAL DRAWINGS AND FIELD CONDITIONS PRIOR TO REMOVAL OF WALL.
10	REMOVE EXISTING WINDOW, WINDOW FRAME, GLAZING, BLOCKING, BLINDS, ETC.
11	REMOVE EXISTING DOOR, HINGES, AND HARDWARE. FRAME TO REMAIN.
12	REMOVE EXISTING DOOR, DOOR FRAME, HINGES, AND HARDWARE.
13	HATCHED AREA SHOWS CONC. SLAB 4" MIN. THICK TO BE REMOVED TO ALLOW NEW FLOOR SLAB TO BE POURED BACK AS SHOWN ON SHT. A-106.
14	EXISTING DOOR AND HINGES TO REMAIN AND NEW HARDWARE TO BE INSTALLED.
15	EXISTING CONCRETE SLAB.
16	SAW CUT WALL TO BE REMOVED FOR NEW DOOR OPENING. VERIFY WITH ARCHITECTURAL PLAN FOR EXACT DIMENSIONS.
17	EXISTING PLASTER AND/OR GYPSUM BOARD CEILING TO BE REMOVED.
18	EXISTING EXPOSED METAL COLUMN TO REMAIN.
19	REMOVE EXISTING MECHANICAL CEILING REGISTER, COORDINATE WITH MECHANICAL DRAWINGS.
20	REMOVE EXISTING MECHANICAL REGISTER/DUCTWORK, ETC. COORDINATE WITH MECHANICAL DRAWINGS.
21	REMOVE MECHANICAL UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
22	REMOVE EXISTING PLUMBING FIXTURES.
23	REMOVE EXISTING GAS PIPING.
24	REMOVE EXISTING PLUMBING.
25	REMOVE ALL EXISTING ELECTRICAL WIRE MOLD/CONDUIT SURFACE MOUNTED, COORDINATE WITH ELECTRICAL.
26	REMOVE ALL EXISTING SURFACE MOUNTED CONDUIT FOR FIRE ALARM, ETC.
27	REMOVE EXISTING SURFACE MOUNTED LIGHTS, COORDINATION WITH ELECTRICAL.
28	REMOVE EXISTING SURFACE MOUNTED WALL LIGHTS.
29	REMOVE EXISTING RECESSED LIGHTING.
30	REMOVE EXISTING HANDRAIL.
31	REMOVE EXISTING THERMOSTAT, COORDINATE WITH MECHANICAL DRAWINGS.
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33	ELECTRICAL PANEL TO BE REMOVED - SEE RELOCATION IN ELECTRICAL DRAWINGS.
34	EXISTING LIGHTING TO REMAIN.
35	REMOVE EXISTING FIRE ALARM PANEL, COORDINATE WITH ELECTRICAL.
36	EXISTING METAL STRUCTURE.
37	REMOVE EXISTING LIGHT.
38	REMOVE VINYL FLOOR TILE.
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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
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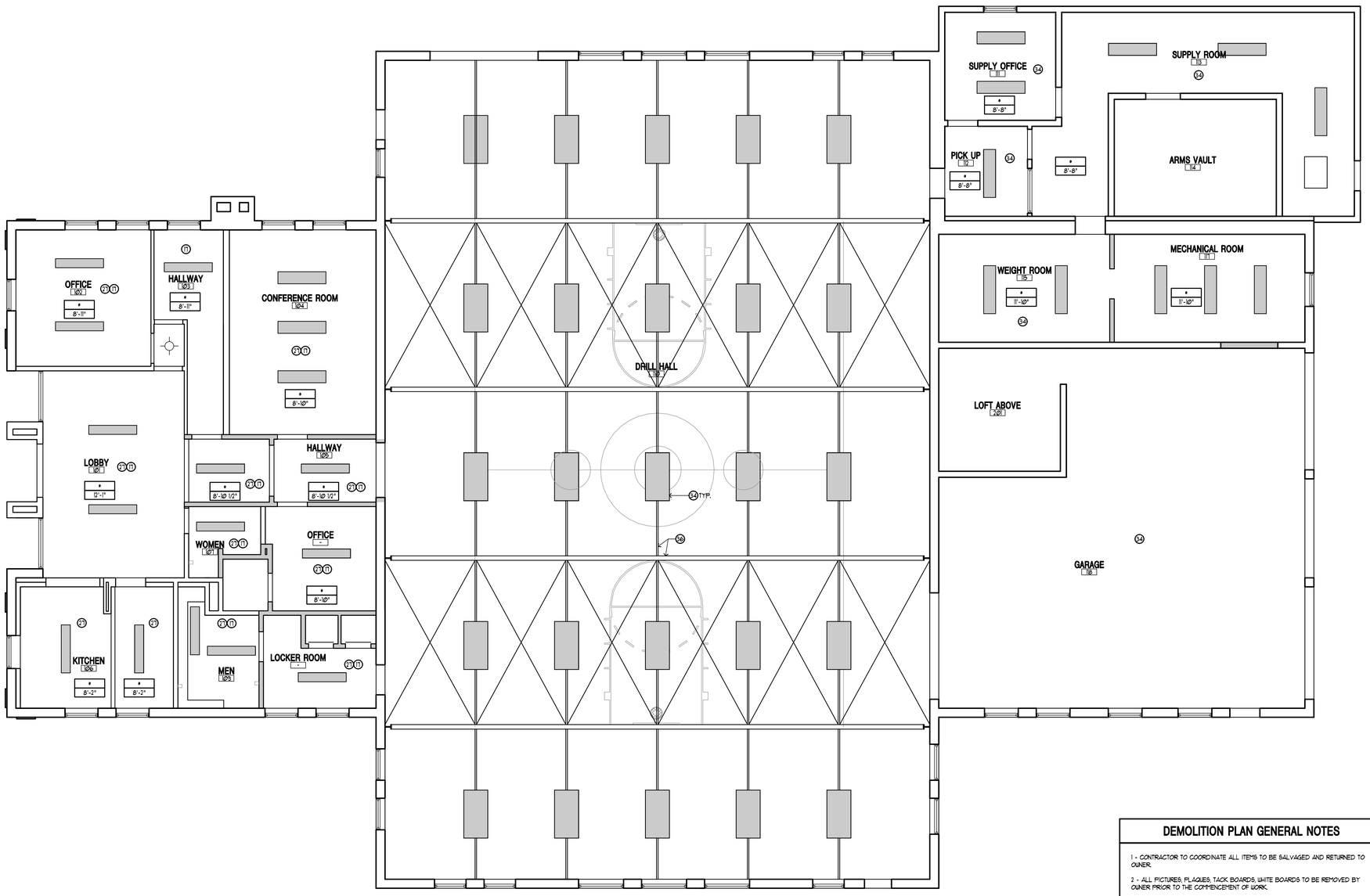
SHEET TITLE
EXISTING UPPER & BASEMENT DEMO. PLANS

SHEET NUMBER
A-103



EXISTING MAIN LEVEL DEMOLITION CEILING PLAN A5 A104
SCALE: 3/16" 1'-0"

DEMOLITION FLOOR/CEILING PLAN LEGEND

- EXISTING WALLS TO REMAIN
- SHADE INDICATES EXISTING WALL TO BE REMOVED- COORDINATE WITH FLOOR PLAN FOR EXTENT OF WALL TO BE REMOVED
- EXISTING CEILING TILES TO BE REMOVED
- EXISTING PLASTER/GYP. BD. CEILING TO BE REMOVED
- EXISTING CEILING TO REMAIN
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- INSTRUCTION KEYNOTES
- FINISH MATERIAL KEYNOTE
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- (E) EXISTING
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- (R) REMOVE, SEE REUSE LEGEND
- REVISION TAG

DEMOLITION FLOOR/CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	EXISTING WOOD FLOOR SYSTEM TO BE REMOVED DOWN TO SUPPORTING SUB-FLOOR.
2	CUT OUT IMAGE AND TURN OVER TO OWNER. COORDINATE CUT SIZE W/OWNER. KEEP SLATS TOGETHER.
3	REMOVE EXISTING CONCRETE SLAB - THIS AREA TO HAVE A UNIFORM CONCRETE SUB-FLOOR TO BE POURED BACK TO ALLOW FOR A NEW WOOD FLOORING SYSTEM.
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5	REMOVE EXISTING CARPET, PAD, ETC.
6	REMOVE EXISTING RUBBER BASE IN ENTIRE ROOM UNLESS NOTED OTHERWISE.
7	REMOVE SECURITY GRILL.
8	REMOVE EXISTING STUD WALL, FULL HEIGHT.
9	REMOVE EXISTING MASONRY OR CONC. WALL, FULL HEIGHT WALL. VERIFY WITH STRUCTURAL DRAWINGS AND FIELD CONDITIONS PRIOR TO REMOVAL OF WALL.
10	REMOVE EXISTING WINDOW, WINDOW FRAME, GLAZING, BLOCKING, BLINDS, ETC.
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12	REMOVE EXISTING DOOR, DOOR FRAME, HINGES, AND HARDWARE.
13	HATCHED AREA SHOWS CONC. SLAB 4" MIN. THICK TO BE REMOVED TO ALLOW NEW FLOOR SLAB TO BE POURED BACK AS SHOWN ON SHT. A-106.
14	EXISTING DOOR AND HINGES TO REMAIN AND NEW HARDWARE TO BE INSTALLED.
15	EXISTING CONCRETE SLAB.
16	SAW CUT WALL TO BE REMOVED FOR NEW DOOR OPENING. VERIFY WITH ARCHITECTURAL PLAN FOR EXACT DIMENSIONS.
17	EXISTING PLASTER AND/OR GYPSUM BOARD CEILING TO BE REMOVED.
18	EXISTING EXPOSED METAL COLUMN TO REMAIN.
19	REMOVE EXISTING MECHANICAL CEILING REGISTER, COORDINATE WITH MECHANICAL DRAWINGS.
20	REMOVE EXISTING MECHANICAL REGISTER/DUCTWORK, ETC. COORDINATE WITH MECHANICAL DRAWINGS.
21	REMOVE MECHANICAL UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
22	REMOVE EXISTING PLUMBING FIXTURES.
23	REMOVE EXISTING GAS PIPING.
24	REMOVE EXISTING PLUMBING.
25	REMOVE ALL EXISTING ELECTRICAL WIRE MOLD/CONDUIT SURFACE MOUNTED, COORDINATE WITH ELECTRICAL.
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34	EXISTING LIGHTING TO REMAIN.
35	REMOVE EXISTING FIRE ALARM PANEL, COORDINATE WITH ELECTRICAL.
36	EXISTING METAL STRUCTURE.
37	REMOVE EXISTING LIGHT.
38	REMOVE VINYL FLOOR TILE.
39	EXISTING DRINKING FOUNTAIN.
40	EXISTING PIPE TO REMAIN.
41	EXISTING SHELVING TO REMAIN.
42	EXISTING ACCESS PANEL.
43	REMOVE EXISTING JANITOR'S SINK, SURROUND, AND PLUMBING FIXTURES. COORDINATE WITH PLUMBING.
44	NOT USED.
45	REMOVE EXISTING ROOF LADDER.
46	REMOVE EXISTING BATHROOM ACCESSORIES, GRAB BAR, MIRROR, PAPER TOWEL, SOAP DISPENSER, ETC.
47	REMOVE EXISTING WALL TILE.
48	REMOVE EXISTING TILE FLOOR, CURBS, ETC.
49	REMOVE EXISTING TOILET PARTITIONS.

DEMOLITION PLAN GENERAL NOTES

1 - CONTRACTOR TO COORDINATE ALL ITEMS TO BE SALVAGED AND RETURNED TO OWNER.

2 - ALL PICTURES, PLAQUES, TACK BOARDS, WHITE BOARDS TO BE REMOVED BY OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3 - CONTRACTOR SHALL REVIEW ALL ASPECTS OF DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
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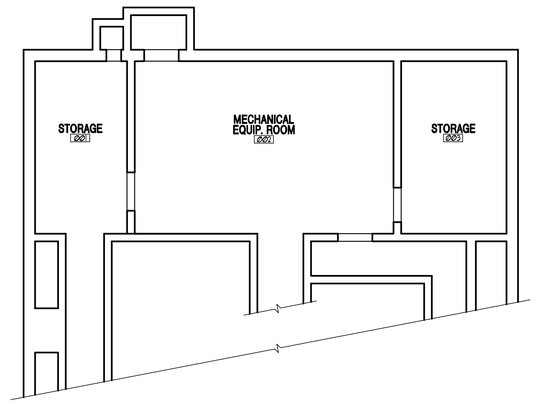
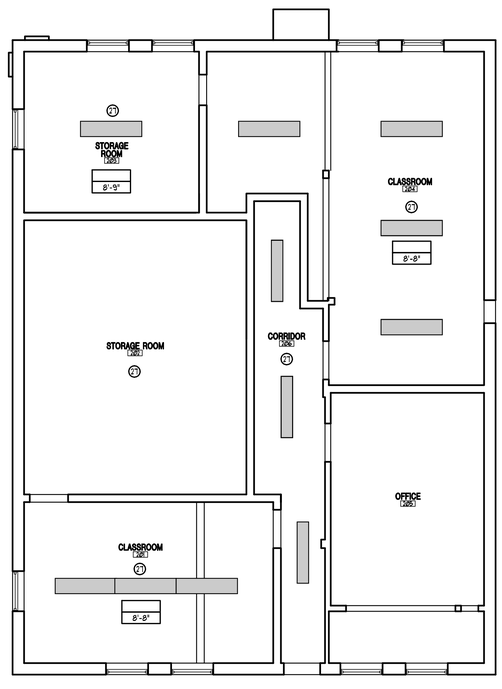
SHEET TITLE
EXISTING MAIN LEVEL DEMO. RCP

SHEET NUMBER
A-104



EXISTING - BASEMENT DEMOLITION CEILING PLAN D5 A105
SCALE: 3/16\' 1'-0"



EXISTING - UPPER LEVEL DEMOLITION CLG. PLAN A5 A105
SCALE: 3/16\' 1'-0"

DEMOLITION PLAN GENERAL NOTES

1 - CONTRACTOR TO COORDINATE ALL ITEMS TO BE SALVAGED AND RETURNED TO OWNER.

2 - ALL PICTURES, PLAQUES, TACK BOARDS, WHITE BOARDS TO BE REMOVED BY OWNER PRIOR TO THE COMMENCEMENT OF WORK.

3 - CONTRACTOR SHALL REVIEW ALL ASPECTS OF DRAWINGS PRIOR TO COMMENCEMENT OF DEMOLITION.

DEMOLITION FLOOR/CEILING PLAN LEGEND

- EXISTING WALLS TO REMAIN
- SHADE INDICATES EXISTING WALL TO BE REMOVED- COORDINATE WITH FLOOR PLAN FOR EXTENT OF WALL TO BE REMOVED
- EXISTING CEILING TILES TO BE REMOVED
- EXISTING PLASTER/GYP. BD. CEILING TO BE REMOVED
- EXISTING CEILING TO REMAIN
- # BUILDING GRID TAG
- INSTRUCTION KEYNOTES
- FINISH MATERIAL KEYNOTE
- DETAIL REFERENCE
- XXXXXXXX-XX SPECIFICATION KEYNOTE
- (E) EXISTING
- (N) NEW
- (R) REMOVE, SEE REUSE LEGEND
- REVISION TAG

DEMOLITION FLOOR/CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	EXISTING WOOD FLOOR SYSTEM TO BE REMOVED DOWN TO SUPPORTING SUB-FLOOR.
2	CUT OUT IMAGE AND TURN OVER TO OWNER. COORDINATE CUT SIZE W/OWNER. KEEP SLATS TOGETHER.
3	REMOVE EXISTING CONCRETE SLAB - THIS AREA TO HAVE A UNIFORM CONCRETE SUB-FLOOR TO BE POURED BACK TO ALLOW FOR A NEW WOOD FLOORING SYSTEM.
4	EXISTING DOOR FRAME, HARDWARE TO REMAIN.
5	REMOVE EXISTING CARPET, PAD, ETC.
6	REMOVE EXISTING RUBBER BASE IN ENTIRE ROOM UNLESS NOTED OTHERWISE.
7	REMOVE SECURITY GRILL.
8	REMOVE EXISTING STUD WALL, FULL HEIGHT.
9	REMOVE EXISTING MASONRY OR CONC. WALL, FULL HEIGHT WALL. VERIFY WITH STRUCTURAL DRAWINGS AND FIELD CONDITIONS PRIOR TO REMOVAL OF WALL.
10	REMOVE EXISTING WINDOW, WINDOW FRAME, GLAZING, BLOCKING, BLINDS, ETC.
11	REMOVE EXISTING DOOR, HINGES, AND HARDWARE. FRAME TO REMAIN.
12	REMOVE EXISTING DOOR, DOOR FRAME, HINGES, AND HARDWARE.
13	HATCHED AREA SHOWS CONC. SLAB 4" MIN. THICK TO BE REMOVED TO ALLOW NEW FLOOR SLAB TO BE POURED BACK AS SHOWN ON SHT. A-106.
14	EXISTING DOOR AND HINGES TO REMAIN AND NEW HARDWARE TO BE INSTALLED.
15	EXISTING CONCRETE SLAB.
16	SAW CUT WALL TO BE REMOVED FOR NEW DOOR OPENING. VERIFY WITH ARCHITECTURAL PLAN FOR EXACT DIMENSIONS.
17	EXISTING PLASTER AND/OR GYPSUM BOARD CEILING TO BE REMOVED.
18	EXISTING EXPOSED METAL COLUMN TO REMAIN.
19	REMOVE EXISTING MECHANICAL CEILING REGISTER, COORDINATE WITH MECHANICAL DRAWINGS.
20	REMOVE EXISTING MECHANICAL REGISTER/DUCTWORK, ETC. COORDINATE WITH MECHANICAL DRAWINGS.
21	REMOVE MECHANICAL UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
22	REMOVE EXISTING PLUMBING FIXTURES.
23	REMOVE EXISTING GAS PIPING.
24	REMOVE EXISTING PLUMBING.
25	REMOVE ALL EXISTING ELECTRICAL WIRE MOLD/CONDUIT SURFACE MOUNTED, COORDINATE WITH ELECTRICAL.
26	REMOVE ALL EXISTING SURFACE MOUNTED CONDUIT FOR FIRE ALARM, ETC.
27	REMOVE EXISTING SURFACE MOUNTED LIGHTS, COORDINATION WITH ELECTRICAL.
28	REMOVE EXISTING SURFACE MOUNTED WALL LIGHTS.
29	REMOVE EXISTING RECESSED LIGHTING.
30	REMOVE EXISTING HANDRAIL.
31	REMOVE EXISTING THERMOSTAT, COORDINATE WITH MECHANICAL DRAWINGS.
32	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. REPAIR AS NECESSARY.
33	ELECTRICAL PANEL TO BE REMOVED - SEE RELOCATION IN ELECTRICAL DRAWINGS.
34	EXISTING LIGHTING TO REMAIN.
35	REMOVE EXISTING FIRE ALARM PANEL, COORDINATE WITH ELECTRICAL.
36	EXISTING METAL STRUCTURE.
37	REMOVE EXISTING LIGHT.
38	REMOVE VINYL FLOOR TILE.
39	EXISTING DRINKING FOUNTAIN.
40	EXISTING PIPE TO REMAIN.
41	EXISTING SHELVING TO REMAIN.
42	EXISTING ACCESS PANEL.
43	REMOVE EXISTING JANITOR'S SINK, SURROUND, AND PLUMBING FIXTURES. COORDINATE WITH PLUMBING.
44	NOT USED.
45	REMOVE EXISTING ROOF LADDER.
46	REMOVE EXISTING BATHROOM ACCESSORIES, GRAB BAR, MIRROR, PAPER TOUEL, SOAP DISPENSER, ETC.
47	REMOVE EXISTING WALL TILE.
48	REMOVE EXISTING TILE FLOOR, CURBS, ETC.
49	REMOVE EXISTING TOILET PARTITIONS.

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BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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CAD DWG FILE:
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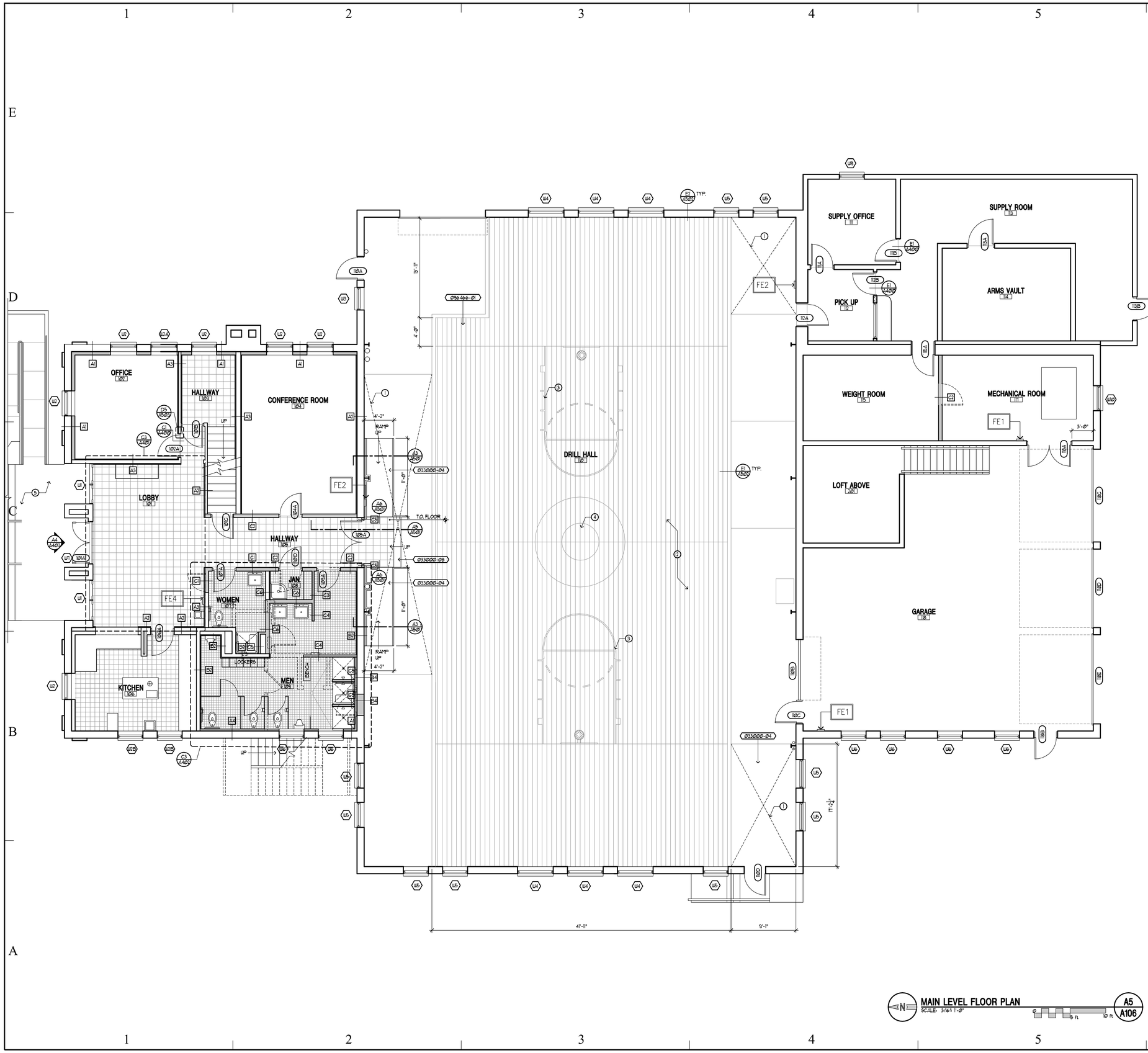
SHEET TITLE
EXISTING UPPER & BASEMENT DEMO. RCP

SHEET NUMBER
A-105



FLOOR PLAN LEGEND

- CONCRETE WALL (E)
- NEW METAL STUD WALL
- EXISTING WALL REMOVED
- INTERIOR ELEVATIONS.
- BUILDING GRID TAG.
- BUILDING SECTION TAG.
- WALL SECTION TAG.
- DOOR TAG.
- WINDOW TAG.
- WALL TYPE TAG (SEE SHT. A-501)
- DETAIL TAG.
- SPECIFICATION KEYNOTE
- INSTRUCTIONAL KEYNOTE TAG.
- REVISION TAG.
- FE1 — NON-RATED, BRACKET MOUNTED FIRE EXTINGUISHER
- FE2 — NON-RATED, SURFACE MOUNTED FIRE EXTINGUISHER
- FE3 — NON-RATED, SEMI-RECESSED FIRE EXTINGUISHER
- FE4 — FIRE RATED, SEMI-RECESSED FIRE EXTINGUISHER

FLOOR PLAN KEY NOTES

MARK	DESCRIPTION
1	NEW CONCRETE TOPPING SLAB PAINTED
2	NEW WOOD FLOOR SYSTEM - SEE ALTERNATE #2 IN SECTION 013000
3	NEW PAINTED BASKETBALL COURT LAYOUT
4	NEW PAINTED LOGO - SEE E2/A-502
5	FOR NEW FRONT ENTRY STEPS, RAMP AND LANDSCAPING, SEE LANDSCAPE SHEETS.

FLOOR PLAN GENERAL NOTES

1 - ALL WALL DIMENSIONS ARE TO FACE-OF-STUD OR EXISTING FINISH WALL, U.N.O.

MAIN LEVEL FLOOR PLAN
SCALE: 3/16" 1'-0"
A5 / A106

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CONSULTANT:

BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

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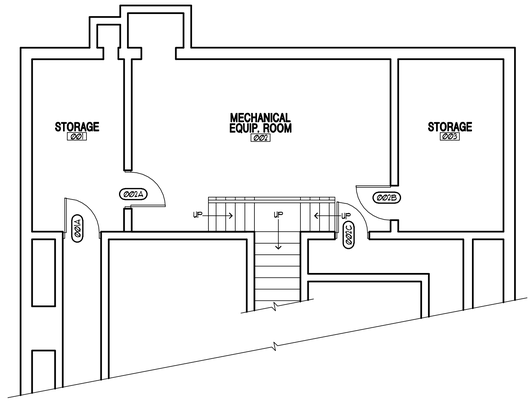
SHEET TITLE

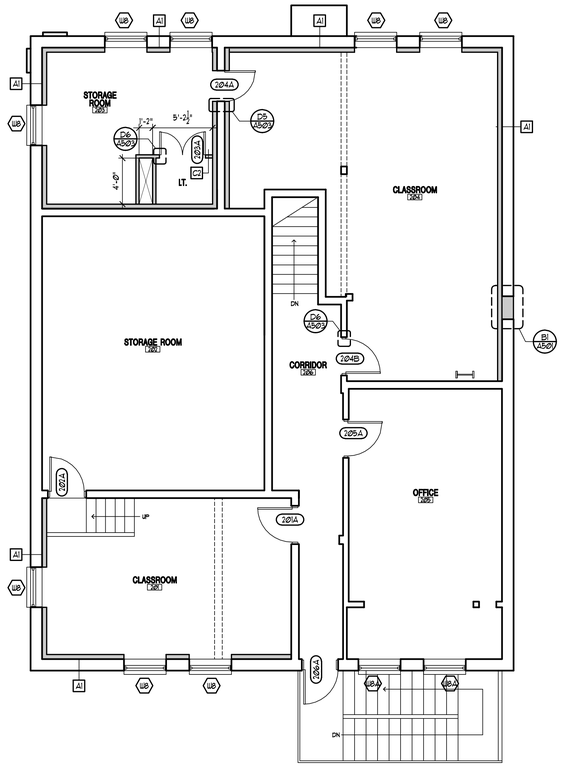
MAIN LEVEL FLOOR PLAN

SHEET NUMBER

A-106



BASEMENT FLOOR PLAN — D5 / A107
SCALE: 3/16" 1'-0"



UPPER LEVEL FLOOR PLAN — A5 / A107
SCALE: 3/16" 1'-0"

FLOOR PLAN LEGEND

- CONCRETE WALL (E)
- NEW METAL STUD WALL
- EXISTING WALL REMOVED
- INTERIOR ELEVATIONS.
- BUILDING GRID TAG.
- BUILDING SECTION TAG.
- WALL SECTION TAG.
- DOOR TAG.
- WINDOW TAG.
- WALL TYPE TAG (SEE SHT. A-501)
- DETAIL TAG.
- SPECIFICATION KEYNOTE
- INSTRUCTIONAL KEYNOTE TAG.
- REVISION TAG.
- FE1 — NON-RATED, BRACKET MOUNTED FIRE EXTINGUISHER
- FE2 — NON-RATED, SURFACE MOUNTED FIRE EXTINGUISHER
- FE3 — NON-RATED, SEMI-RECESSED FIRE EXTINGUISHER
- FE4 — FIRE RATED, SEMI-RECESSED FIRE EXTINGUISHER

FLOOR PLAN KEY NOTES

MARK	DESCRIPTION
1	NEW CONCRETE TOPPING SLAB PAINTED
2	NEW WOOD FLOOR SYSTEM - SEE ALTERNATE #3 IN SECTION 013500
3	NEW PAINTED BASKETBALL COURT LAYOUT
4	NEW PAINTED LOGO - SEE E3/A-502
5	FOR NEW FRONT ENTRY STEPS, RAMP AND LANDSCAPING, SEE LANDSCAPE SHEETS.

FLOOR PLAN GENERAL NOTES

1 - ALL WALL DIMENSIONS ARE TO FACE-OF-STUD OR EXISTING FINISH WALL, U.N.O.

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	XX-XX-XX	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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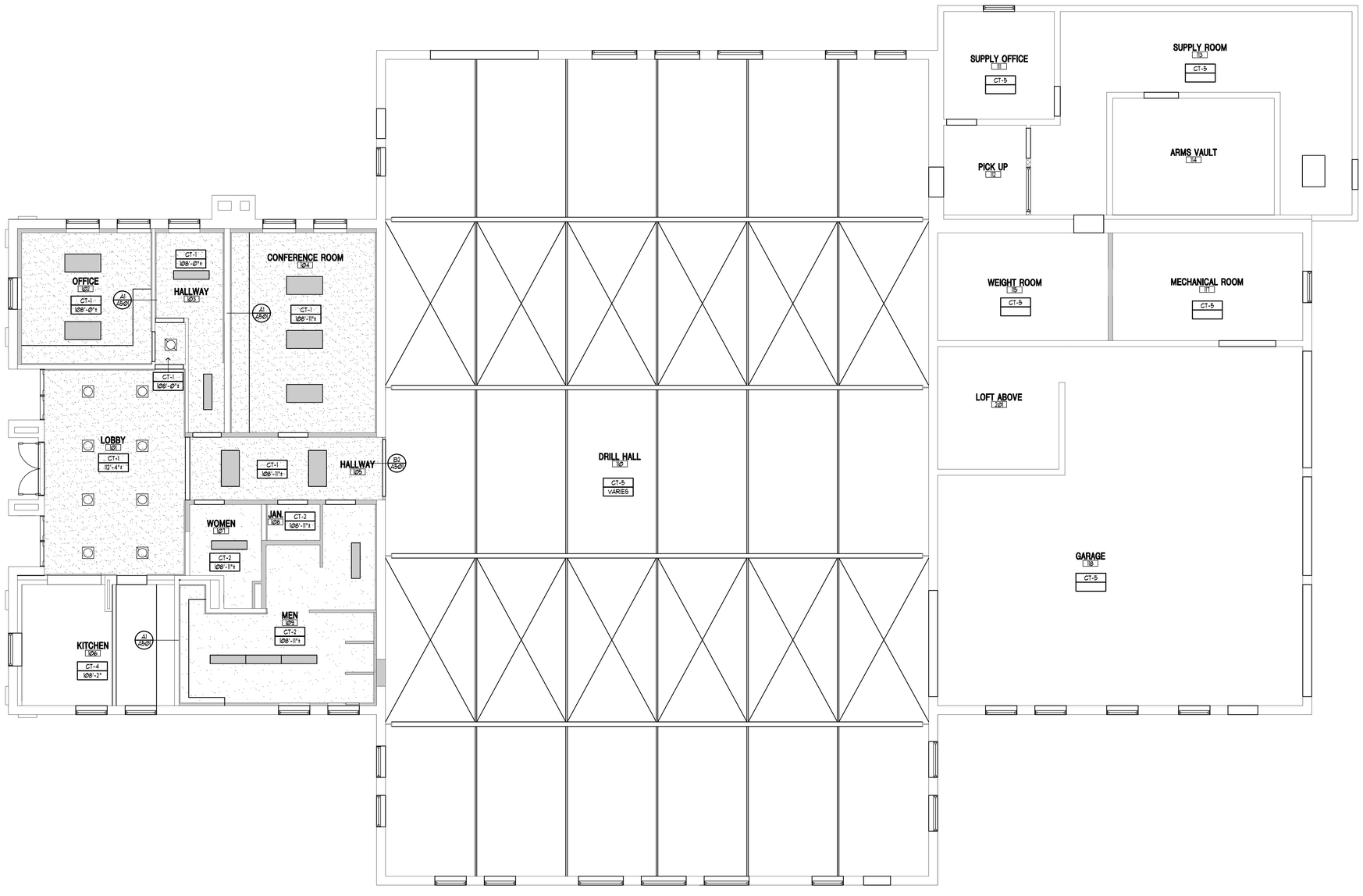
SHEET TITLE
UPPER & BASEMENT FLOOR PLANS

SHEET NUMBER
A-107



MAIN LEVEL REFLECTED CEILING PLAN
SCALE: 3/16" 1'-0"

REFLECTED CEILING PLAN LEGEND

PATTERN/SYMBOL		DESCRIPTION
	CT-1	½" GYPSUM BOARD, SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE, A-400.
	CT-2	½" WATERPROOF GYPSUM BOARD, SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE, A-400.
	CT-3	ACOUSTICAL LAY-IN TILE CEILING, SEE 'AC' ON ROOM FINISH SCHEDULE A-400.
	CT-4	EXISTING CEILING TO REMAIN. SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE A-400.
	CT-5	EXISTING CEILING TO REMAIN - NO FINISH WORK IN THIS SPACE.

CEILING TYPE -
FINISHED CEILING HEIGHT
DETAIL TAG.
SPECIFICATION KEYNOTE
INSTRUCTIONAL KEYNOTE TAG.
REVISION TAG.
RECESSED LIGHT FIXTURE - SEE ELECTRICAL
WALL SCONCE LIGHT FIXTURE
LAY-IN LIGHT FIXTURE - SEE ELECTRICAL
EXIT LIGHT. COORD. W/ ELECT.
SUSPENDED OR SURFACE MOUNT LIGHT
MECH. SUPPLY DIFFUSER, COORD. W/ MECHANICAL
MECH. RETURN DIFFUSER, OR EXHAUST COORD. W/ MECHANICAL

REFLECTED CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	NEW CEILING ANCHORED TO EXISTING FRAMING.
2	NEW CEILING TO MATCH EXISTING CEILING HEIGHT. COORDINATE WITH MECHANICAL FOR NEW DUCT AND REGISTER PLACEMENT.

REFLECTED CEILING PLAN GENERAL NOTES

1 - ALL DIMENSIONS ARE FROM FACE OF EXISTING WALL FINISH, U.N.O.

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BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

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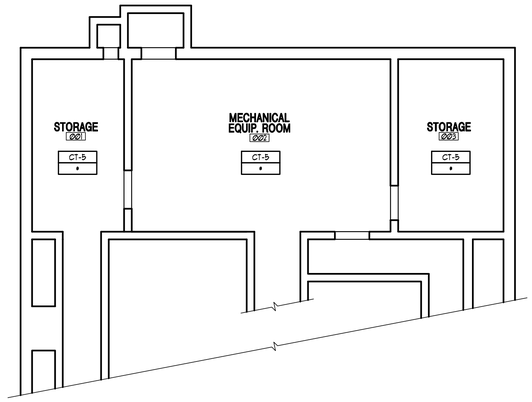
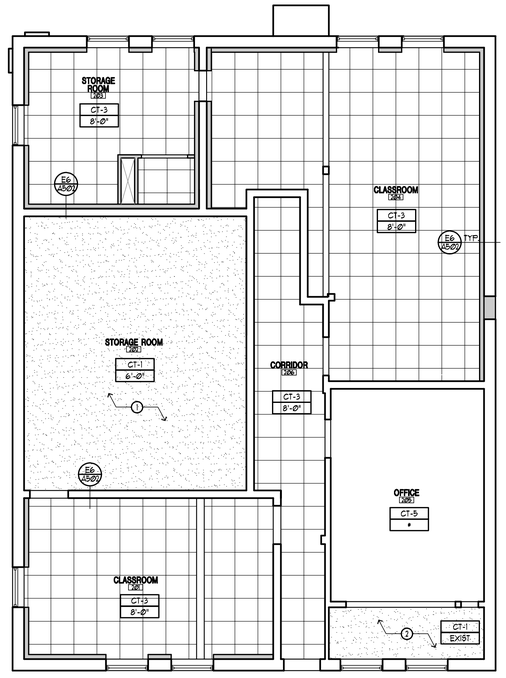
SHEET TITLE
MAIN LEVEL CEILING PLAN

SHEET NUMBER
A-108



BASEMENT REFLECTED CEILING PLAN — D5 / A109
SCALE: 3/16" 1'-0"



UPPER LEVEL REFLECTED CEILING PLAN — A5 / A109
SCALE: 3/16" 1'-0"

REFLECTED CEILING PLAN LEGEND

PATTERN/SYMBOL		DESCRIPTION
	CT-1	½" GYPSUM BOARD, SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE, A-400.
	CT-2	½" WATERPROOF GYPSUM BOARD, SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE, A-400.
	CT-3	ACOUSTICAL LAY-IN TILE CEILING, SEE 'AC' ON ROOM FINISH SCHEDULE A-400.
	CT-4	EXISTING CEILING TO REMAIN. SEE 'CP' PAINT FINISH ON ROOM FINISH SCHEDULE A-400.
	CT-5	EXISTING CEILING TO REMAIN - NO FINISH WORK IN THIS SPACE.

- CEILING TYPE - / FINISHED CEILING HEIGHT
- DETAIL TAG.
- SPECIFICATION KEYNOTE
- INSTRUCTIONAL KEYNOTE TAG.
- REVISION TAG.
- RECESSED LIGHT FIXTURE - SEE ELECTRICAL
- WALL SCONCE LIGHT FIXTURE
- LAY-IN LIGHT FIXTURE - SEE ELECTRICAL
- EXIT LIGHT. COORD. W/ ELECT.
- SUSPENDED OR SURFACE MOUNT LIGHT
- MECH. SUPPLY DIFFUSER, COORD. W/ MECHANICAL
- MECH. RETURN DIFFUSER, OR EXHAUST COORD. W/ MECHANICAL

REFLECTED CEILING PLAN KEY NOTES

MARK	DESCRIPTION
1	NEW CEILING ANCHORED TO EXISTING FRAMING.
2	NEW CEILING TO MATCH EXISTING CEILING HEIGHT. COORDINATE WITH MECHANICAL FOR NEW DUCT AND REGISTER PLACEMENT.

REFLECTED CEILING PLAN GENERAL NOTES

1 - ALL DIMENSIONS ARE FROM FACE OF EXISTING WALL FINISH, U.N.O.

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SHEET TITLE
UPPER & BASEMENT CEILING PLANS

SHEET NUMBER
A-109

ELEVATION/SECTION LEGEND

HATCH PATTERN	SECTION	DESCRIPTION
		EXISTING STUCCO FACADE FINISH TO REMAIN
		NEW STUCCO

ELEVATION/SECTION KEY NOTES

	DESCRIPTION
1	CRACK REPAIR - SEE STRUCTURAL SHEET S302
2	REMOVE EXISTING SIGNAGE
3	PARKING SIGNAGE - SEE SHEET A-101
4	NEW METAL WINDOW - SEE SHEET A-601 FOR SIZE AND DETAILS.
5	NEW EXTERIOR STUCCO FINISH TO MATCH EXISTING - SEE SPEC SECTION 092400
6	EXISTING MEMORIAL PLAQUE TO REMAIN
7	NEW STUCCO FINISH AT ALL SIDES OF COLUMN AND SOFFIT OF OPENING

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	xx-xx-xx	XXX

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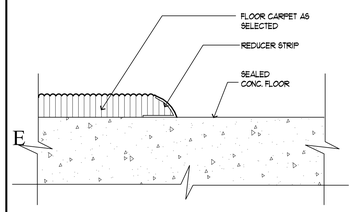
SHEET TITLE

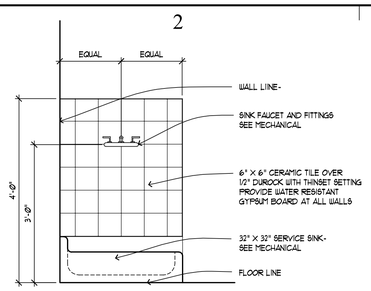
EXTERIOR ELEVATIONS

SHEET NUMBER

A-201



FLOOR TRANSITION DETAIL — E1 / A400
SCALE: N.T.S= 1'-0"



SERVICE SINK DETAIL — E2 / A400
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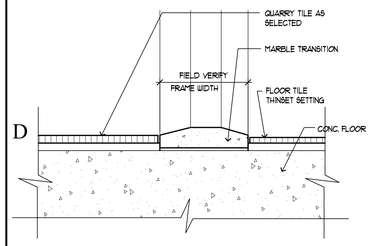

FLOOR TRANSITION DETAIL — D1 / A400
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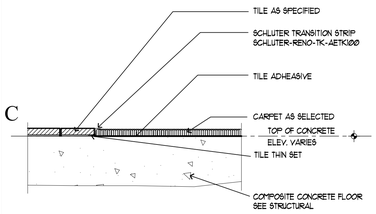

TILE TO CARPET — C1 / A400
SCALE: 3" = 1'-0" DT-FN-008

ROOM FINISH SCHEDULE

RM #	ROOM NAME	CEILING HEIGHT A.F.F.	CEILING TYPE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	FLOOR & BASE FINISH BASE	FLOOR & BASE FINISH FLOOR	COUNTER TOP	REMARKS
101	LOBBY	8'-0"	CP	WP-3	WP-1	WP-3	WP-1	RB	PT	NA	PT-SEE ENLARGED PLAN FOR PATTERN
102	OFFICE	8'-0"	CP	WP-3	WP-1	WP-1	WP-1	RB	CA	NA	-
103	HALLWAY	8'-0"	CP	WP-1	WP-1	WP-1	WP-1	RB	PT	NA	-
104	CONFERENCE ROOM	8'-0"	CP	WP-1	WP-1	WP-1	WP-3	RB	CA	NA	-
105	HALLWAY	8'-0"	CP	WP-1	WP-1	WP-1	WP-1	RB	PT	NA	PT-SEE ENLARGED PLAN FOR PATTERN
106	KITCHEN	8'-2"	CP	E	E	E	E	E	E	NA	-
107	WOMEN'S RESTROOM	8'-0"	CP	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	CB	CT	NA	WT-SEE ELEVATIONS ON A-402 FOR PATTERN
108	JANITOR	8'-0"	CP	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	CB	CT	NA	-
109	MEN'S RESTROOM	8'-0"	CP	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	WP-1, WT1-4	CB	CT	NA	WT-SEE ELEVATIONS ON A-402 FOR PATTERN
110	DRILL AREA	VARIES	E	WP-1	WP-1	WP-1	WP-1	E7/A502	WF/EP	NA	NEW EPOXY (EP) ON EXIST. CONCRETE
111	SUPPLY OFFICE	8'-0"	E	E	E	E	E	RB	CA	NA	-
112	PICK UP	8'-0"	E	E	E	E	E	RB	CA	NA	-
113	SUPPLY ROOM	8'-0"	E	E	E	E	E	NA	NA	NA	-
114	VAULT	8'-0"	E	NA	NA	NA	NA	NA	NA	NA	-
115	WEIGHT ROOM	8'-0"	NA	NA	NA	NA	NA	NA	NA	NA	-
117	MECHANICAL	8'-0"	NA	NA	NA	WP-1	WP-1	NA	NA	NA	WP (SOUTH) - TOUCH UP AROUND DOOR INSTALL
118	GARAGE	8'-0"	NA	WP-1	NA	NA	NA	NA	NA	NA	WP (NORTH) - TOUCH UP AROUND DOOR INSTALL
201	CLASSROOM	8'-0"	AC	WP-1	WP-1	WP-1	WP-1	RB	CA	NA	-
202	STORAGE ROOM	8'-0"	CP	NA	NA	NA	NA	NA	NA	NA	-
203	CLASSROOM	8'-0"	AC	WP-1	WP-1	WP-1	WP-1	RB	CA	NA	-
204	CLASSROOM	8'-0"	AC	WP-1	WP-1	WP-1	WP-1	RB	CA	NA	-
205	OFFICE	8'-0"	E/CP	E	E	E	E	E	E	NA	-
206	CORRIDOR	8'-0"	AC	WP-1	WP-1	WP-1	WP-1	RB	CA	NA	-

FLOOR FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MFG. #	PATTERN/STYLE	COLOR	THICKNESS	DETAIL1	SAMPLE REQUIRED	REMARKS
CA	CARPET TILE	SHAW		SHADOW PLAY	BEECHWOOD *56150	-	-	YES	-
SC	SEALED CONCRETE	-	-	-	-	-	-	YES	-
RF	RUBBER FLOOR	MONDO	-	SPORT IMPACT	NOIR BLACK 0008	-	-	YES	-
EP	EPOXY	-	-	-	-	-	-	YES	-
CT	CERAMIC TILE	AMERICAN OLEAN	-	-	ALMOND A24	SIZE: 1 X 1	-	YES	NOTE: 25% OF EACH COLOR
	CERAMIC TILE	AMERICAN OLEAN	-	-	MUSHROOM SPECKLED A48	SIZE: 1 X 1	-	YES	GROUT: MAPEI, 47 CHARCOAL
	CERAMIC TILE	AMERICAN OLEAN	-	-	CHARCOAL A33	SIZE: 1 X 1	-	YES	-
	CERAMIC TILE	AMERICAN OLEAN	-	-	ARTICHOKE A63	SIZE: 1 X 1	-	YES	-
PT	PORCELAIN TILE	CROSSVILLE	-	BUENOS AIRES MOOD	RECOLETA V5153	SIZE: TBD	-	YES	GROUT: MAPEI, 09 GRAY
	PORCELAIN TILE	CROSSVILLE	-	BUENOS AIRES MOOD	PAMPA V5152	SIZE: TBD	-	YES	GROUT: MAPEI, 09 GRAY
QT	QUARRY TILE	DALTILE	-	-	BRONZE QQ62	SIZE: 6 X 6	-	YES	-
WF	WOOD SPORTS FLOOR	-	-	-	-	-	-	YES	-
E	EXIST. FLOOR FINISH TO REMAIN	-	-	-	-	-	-	-	-

BASE FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MFG. #	COLOR	SHEEN	COATS	GLAZE	DETAIL1	SAMPLE REQUIRED	REMARKS
RB	RUBBER BASE	JOHNSONITE	-	CHARCOAL 20	N/A	N/A	N/A	SIZE: 4" HIGH	YES	-
CB	CERAMIC TILE BASE	AMERICAN OLEAN	BRIGHT AND MATTE	SMOKEY QUARTZ 41	-	N/A	N/A	SIZE: 4 X 4	YES	GROUT: MAPAI, 14 BISCUIT
QB	QUARRY TILE BASE	DALTILE	-	BRONZE QQ62	-	N/A	N/A	SIZE: 5 X 6 COVE BASE	YES	
PT	PORCELAIN TILE BASE	CROSSVILLE	-	BUENOS AIRES MOOD	-	-	-	SIZE: TBD	YES	
E	EXISTING BASE TO REMAIN	-	-	-	-	-	-	-	-	-

WALL FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MFG. #	COLOR	SHEEN	COATS	GLAZE	DETAIL1	SAMPLE REQUIRED	REMARKS
WP-1	PAINT (TYPICAL)	BENJAMIN MOORE	-	NAVAJO WHITE OC-55	SATIN	2	N/A	N/A	YES	SMOOTH TEXTURE, TYPE 3 OR 4
WP-2	PAINT (H.M. DR. & FRAME)	BENJAMIN MOORE	-	TROUT GRAY 2124-30	SATIN	2	N/A	N/A	YES	SMOOTH TEXTURE, TYPE 3 OR 4
WP-3	PAINT (ACCENT)	BENJAMIN MOORE	-	GOLDEN RETRIEVER 2165-30	SATIN	2	N/A	N/A	YES	SMOOTH TEXTURE, TYPE 3 OR 4
	-OR- PAINT (ACCENT)	BENJAMIN MOORE	-	ARMY GREEN 2141-30	SATIN	2	N/A	N/A	YES	SMOOTH TEXTURE, TYPE 3 OR 4
FRP	FRP	-	-	-	N/A	N/A	N/A	-	YES	
WT-1	CERAMIC TILE	AMERICAN OLEAN	BRIGHT AND MATTE	MATTE ALMOND 81	-	N/A	N/A	SIZE: 4 X 4	YES	GROUT: MAPAI, 14 BISCUIT
WT-2	CERAMIC TILE	AMERICAN OLEAN	BRIGHT AND MATTE	AUTUMN LEAVES 21	-	N/A	N/A	SIZE: 4 X 4	YES	GROUT: MAPAI, 14 BISCUIT
WT-3	CERAMIC TILE	AMERICAN OLEAN	BRIGHT AND MATTE	ARTICHOKE 63	-	N/A	N/A	SIZE: 4 X 4	YES	GROUT: MAPAI, 14 BISCUIT
WT-4	CERAMIC TILE	AMERICAN OLEAN	BRIGHT AND MATTE	SMOKEY QUARTZ 41	-	N/A	N/A	SIZE: 4 X 4	YES	GROUT: MAPAI, 14 BISCUIT
SS	SOLID SURFACE MAT.	-	-	-	N/A	N/A	N/A	-	YES	SEE SPEC. SECTION 06650
MTL	STAINLESS STEEL BACKSPLASH	-	-	-	N/A	N/A	N/A	-	YES	-
E	EXISTING WALL FINISH TO REMAIN	-	-	-	-	-	-	-	-	-

CEILING FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MANUFACTURER ITEM	COLOR NAME	SHEEN	LOCATION	REMARKS
CP	PAINT	BENJAMIN MOORE	-	SIMPLY WHITE OC-117	SATIN - (2) COATS	SEE PLANS	SMOOTH TEXTURE, TYPE 3 OR 4
AC	ACOUSTICAL TILE	USG	-	ASTRO CLIMA PLUS	N/A	SEE PLANS	CEILING GRID: USG & COLOR: CENTRICITEE
E	EXISTING CEILING FINISH TO REMAIN	-	-	-	-	-	-

MISCELLANEOUS

MARK	MATERIAL	MANUFACTURER	MFG. #	COLOR	SHEEN	COATS	GLAZE	DETAIL1	SAMPLE REQUIRED	REMARKS
ST	STAIN COLOR (DOORS)	N/A	-	CLEAR 500	-	-	-	-	YES	DOOR STYLE: OSHKOSH SPECIES: WHITE OAK
WS	WINDOW SILL FINISH	CORIAN	-	RICE PAPER	-	-	-	-	YES	-

TOILET ROOM ACCESSORY SCHEDULE (COORDINATE WITH SPEC SECTION 10800) (SEE G-005 FOR MOUNTING HEIGHTS AND REINFORCEMENT)

MARK	ROOM	DESCRIPTION	MANUFACTURER	MODEL NO.	COLOR	INSTALL DETAIL	SAMPLE REQ'D	REMARKS
RA-1	WOMENS / MENS	GRAB BAR	BOBRICK	SERIES 6806	STAINLESS	- - -	YES	FOR EXACT LENGTHS SEE A6/G005 (WATER CLOSET) & C5/G005 (SHOWER)
RA-2	WOMENS / MENS	RECESSED SHELF	SWANSTONE	RS-2215	SOLID SURF. MAT	- - -	YES	- - -
RA-3	WOMENS / MENS	MIRROR	BOBRICK	B-165	STAINLESS	- - -	YES	
RA-4	WOMENS / MENS	TOILET TISSUE DISP	BOBRICK	B-16867	STAINLESS	- - -	YES	
RA-5	WOMENS / MENS	SEAT COVER DISP	BOBRICK	B-221	STAINLESS	- - -	YES	SURFACE MOUNTED
RA-6	WOMENS	SANITARY NAPKIN DISPOSAL	BOBRICK	B-254	STAINLESS	- - -	YES	SURFACE MOUNTED
RA-7	WOMENS / MENS	TOUEL DISP / WASTE	BOBRICK	B-3942	STAINLESS	- - -	YES	SEMI RECESSED
RA-8	WOMENS / MENS	SOAP DISPENSER	BOBRICK	B-211	STAINLESS	- - -	YES	SURFACE MOUNTED
RA-9	MENS/WOMENS	ROBE HOOK	BOBRICK	B-671	STAINLESS		YES	SURFACE-MOUNTED
RA-10	WOMENS	VENDOR	BOBRICK	B-282 75	STAINLESS	- - -	YES	SURFACE MOUNTED
RA-11	WOMENS / MENS	CURTAIN ROD / HOOKS	BOBRICK	B-6047	STAINLESS	- - -	YES	- - -
RA-12	WOMENS / MENS	SHOWER CURTAIN	BOBRICK	2024-2	VINYL	- - -	YES	- - -
RA-13	WOMENS / MENS	SHOWER SEAT	BOBRICK	B-5181	PHENOLIC	- - -	YES	- - -
RA-14	WOMENS / MENS	UNDERLAVATORY GUARD	TRUEBRO LAVGUARD	2 EZ	VINYL	- - -	YES	
RA-15	WOMENS / MENS	TOUEL DISPENSER	BOBRICK	B-262	STAINLESS	- - -	YES	- - -

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
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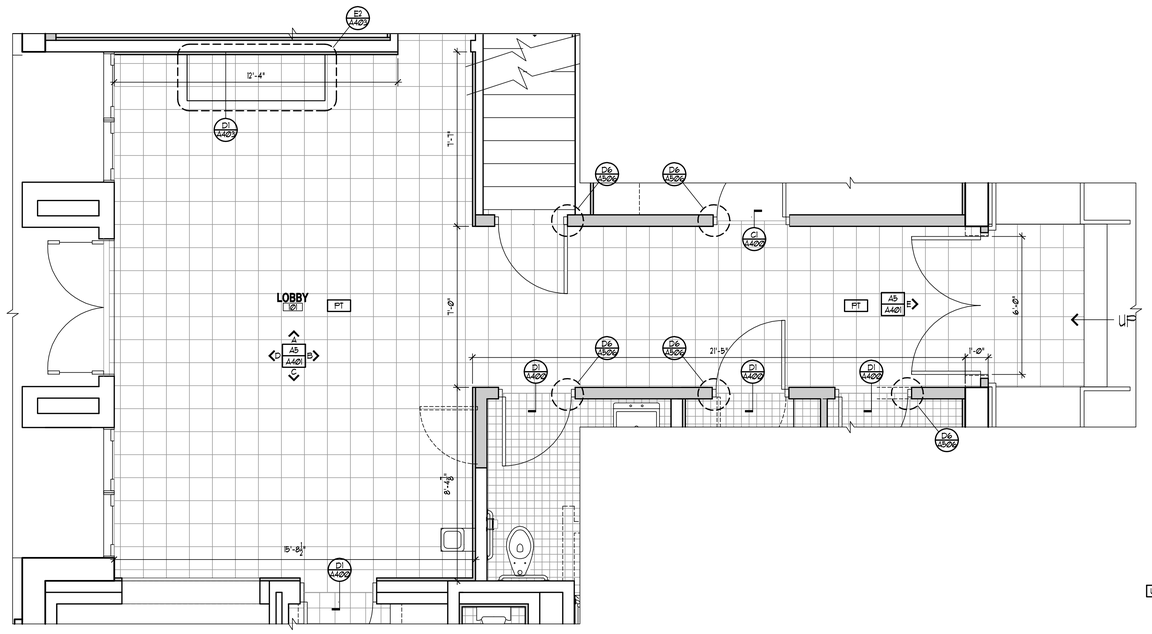
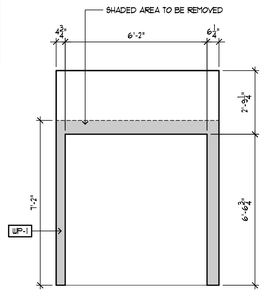
SHEET TITLE
FINISH SCHEDULE

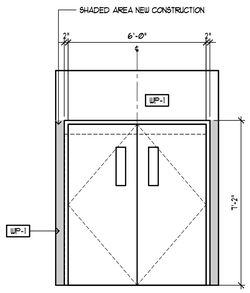
SHEET NUMBER
A-400



ENLARGED LOBBY PLAN
SCALE: 3/8" = 1'-0"
C3
A401



INTERIOR ELEV E
EXISTING ELEVATION



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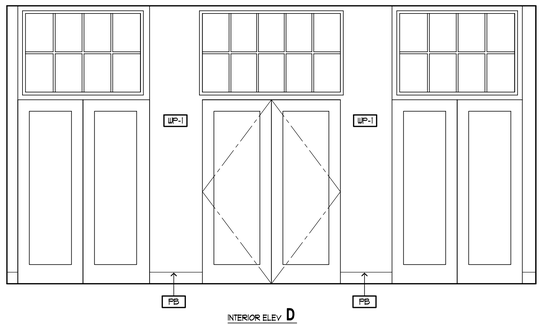

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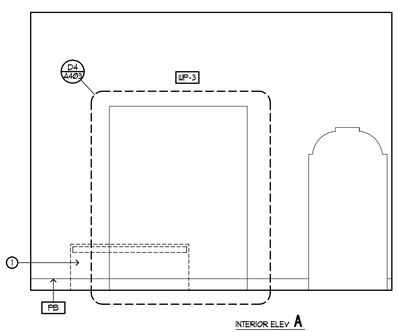

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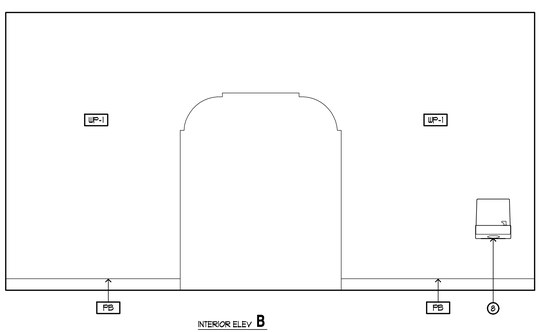
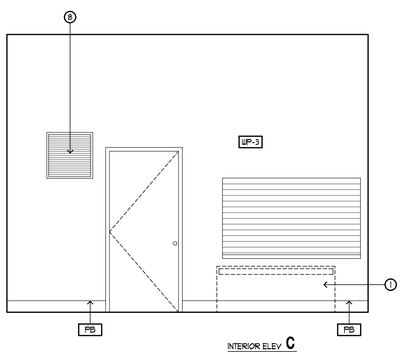


INTERIOR ELEV B



INTERIOR ELEV C

LOBBY INTERIOR ELEVATIONS
SCALE: 3/8" = 1'-0"
A5
A401
6-1-1E-01

INTERIOR ELEVATION LEGEND

HATCH PATTERN	SECTION	DESCRIPTION
		INTERIOR FINISH TAG - SEE SHEET A-400 FOR FINISH SCHEDULES
		RESTROOM ACCESSORY - SEE FINISH SCHEDULE SHEET A400

INTERIOR ELEVATION KEY NOTES

DESCRIPTION

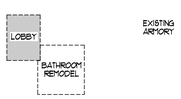
1. EXISTING RADIATOR UNIT TO BE REMOVED
2. NEW TILE FLOOR, SEE FINISH SCHEDULE
3. LOCKERS, NOT IN CONTRACT, OWNER INSTALLED
4. NEW BENCH, NOT IN CONTRACT
5. EXISTING WALL TO REMAIN
6. DASHED WALL TO BE REMOVED - SEE DEMO PLANS ON SHEET A5/A102.
7. THIS WALL NOT ELEVATED - WALL TO BE TILED TO INSIDE CORNER
8. REMOVE - SEE PLUMBING DRAWINGS
9. REMOVE - SEE MECHANICAL DRAWINGS

GENERAL NOTES

1. ALL WALLS IN RESTROOMS, WHETHER ELEVATED OR NOT, ARE TO BE FINISHED WITH PAINT AND 6" CERAMIC TILE BASE. SEE FINISH SCHEDULE ON SHEET A-400 FOR FINISHES.

NOTE:
ALL H.M. DOORS + FRAMES WP-2
ALL WOOD DOORS ST

KEY PLAN



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BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
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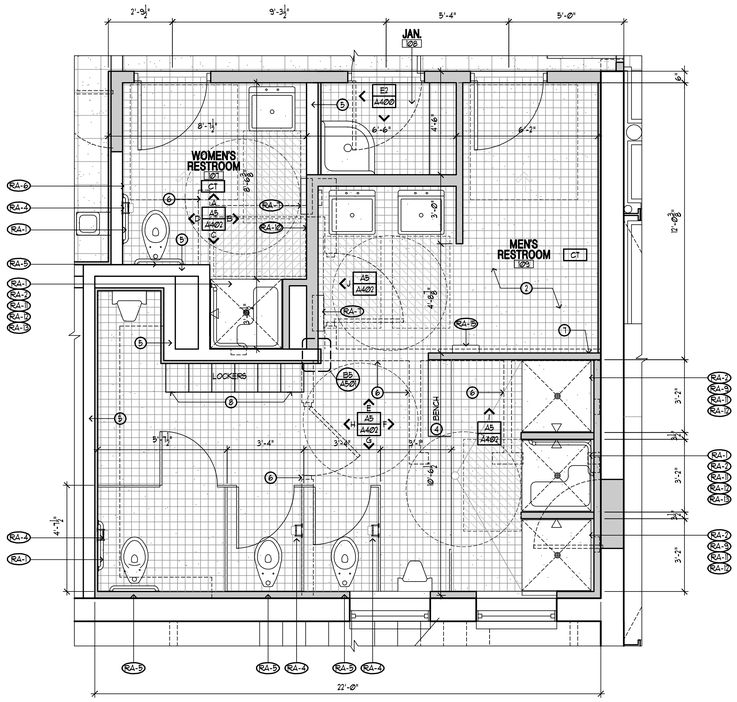
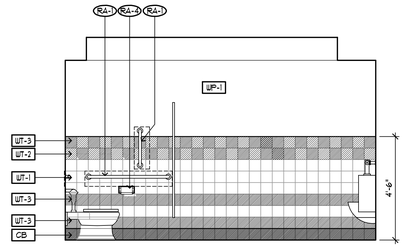
SHEET TITLE
ENLARGED LOBBY PLAN

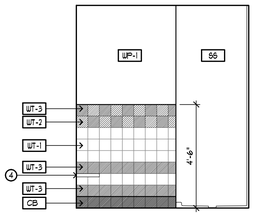
SHEET NUMBER
A-401



ENLARGED RESTROOM PLAN C3 A402
SCALE: 3/8" = 1'-0"



INTERIOR ELEV H



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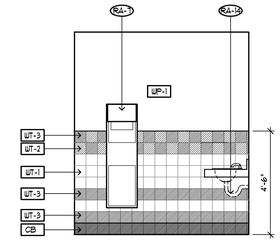

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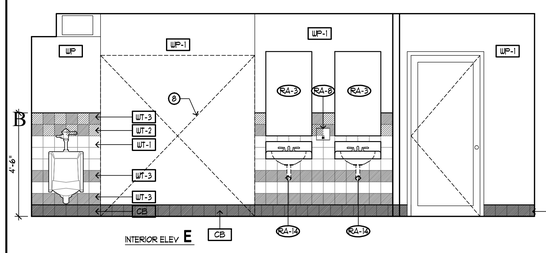

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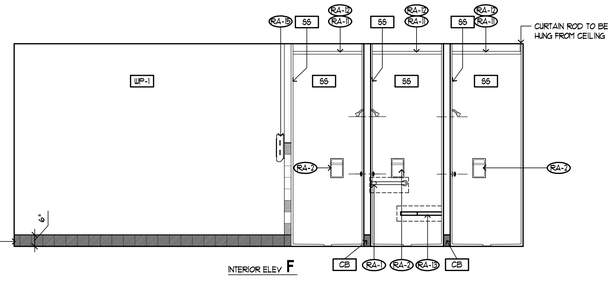

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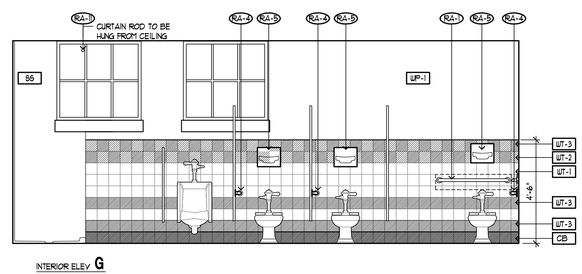

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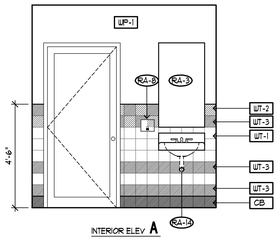

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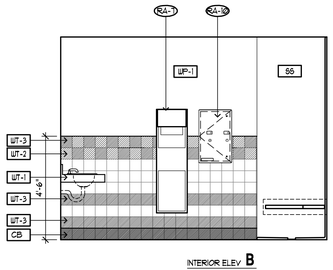

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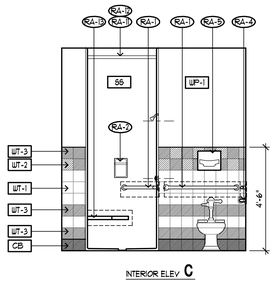

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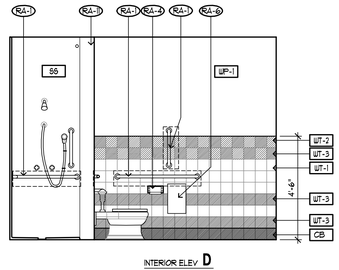


INTERIOR ELEV D

INTERIOR ELEVATION LEGEND

HATCH PATTERN	SECTION	DESCRIPTION
		INTERIOR FINISH TAG - SEE SHEET A-400 FOR FINISH SCHEDULES RESTROOM ACCESSORY - SEE FINISH SCHEDULE SHEET A400

INTERIOR ELEVATION KEY NOTES

DESCRIPTION

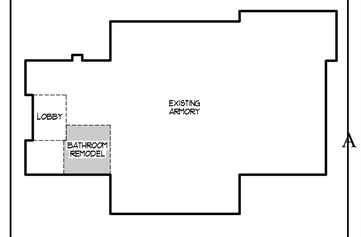
1. EXISTING RADIATOR UNIT TO BE REMOVED
2. NEW TILE FLOOR, SEE FINISH SCHEDULE
3. LOCKERS, NOT IN CONTRACT, OWNER INSTALLED
4. NEW BENCH, NOT IN CONTRACT
5. EXISTING WALL TO REMAIN
6. DASHED WALL TO BE REMOVED - SEE DEMO PLANS ON SHEET A5/A102.
7. THIS WALL NOT ELEVATED - WALL TO BE TILED TO INSIDE CORNER
8. REMOVE - SEE PLUMBING DRAWINGS
9. REMOVE - SEE MECHANICAL DRAWINGS

GENERAL NOTES

1. ALL WALLS IN RESTROOMS, WHETHER ELEVATED OR NOT, ARE TO BE FINISHED WITH PAINT AND 6" CERAMIC TILE BASE. SEE FINISH SCHEDULE ON SHEET A-400 FOR FINISHES.

NOTE:
ALL H.M. DOORS & FRAMES WP-2
ALL WOOD DOORS ST

KEY PLAN



RESTROOM INTERIOR ELEVATIONS A5 A402
SCALE: 3/8" = 1'-0"
6-1-1E-006

jsa architects
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6465 South 3000 East
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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: DLC
CHK'D BY: CDJ
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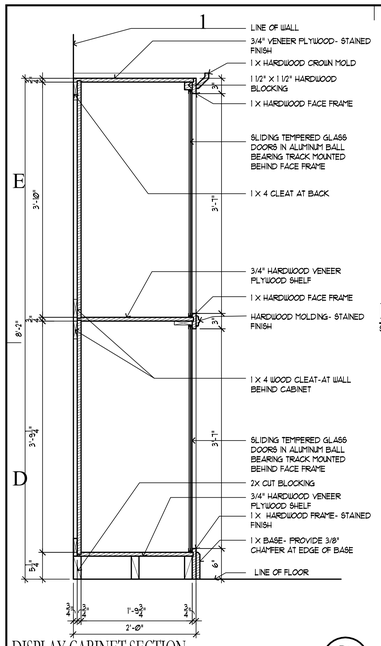
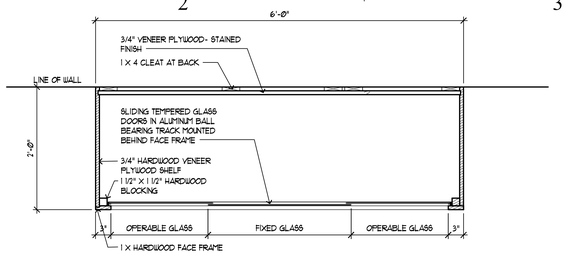
SHEET TITLE
ENLARGED RESTROOM PLAN

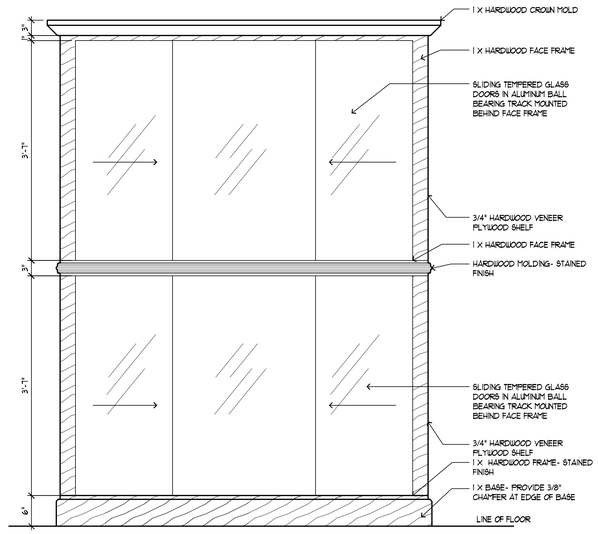
SHEET NUMBER
A-402



DISPLAY CABINET SECTION
SCALE: 1" = 1'-0"
D1 / A403



DISPLAY CABINET SECTION
SCALE: 1" = 1'-0"
E2 / A403



DISPLAY CABINET ELEVATION
SCALE: 1" = 1'-0"
D4 / A403

ENLARGED ENTRY ELEVATION
SCALE: 3/8" = 1'-0"
A4 / A403

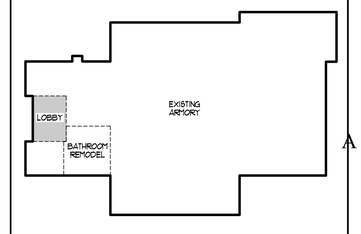
ELEVATION/SECTION LEGEND

HATCH PATTERN	SECTION	DESCRIPTION
		EXISTING STUCCO FACADE FINISH TO REMAIN
		NEW STUCCO

ELEVATION/SECTION KEY NOTES

	DESCRIPTION
1	CRACK REPAIR - SEE STRUCTURAL SHEET S302
2	REMOVE EXISTING SIGNAGE
3	PARKING SIGNAGE - SEE SHEET A-101
4	NEW METAL WINDOW - SEE SHEET A-601 FOR SIZE AND DETAILS.
5	NEW EXTERIOR STUCCO FINISH TO MATCH EXISTING - SEE SPEC SECTION 092400
6	EXISTING MEMORIAL PLAQUE TO REMAIN
7	NEW STUCCO FINISH AT ALL SIDES OF COLUMN AND SOFFIT OF OPENING

KEY PLAN



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UTAH NATIONAL GUARD

PROJECT TITLE:
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	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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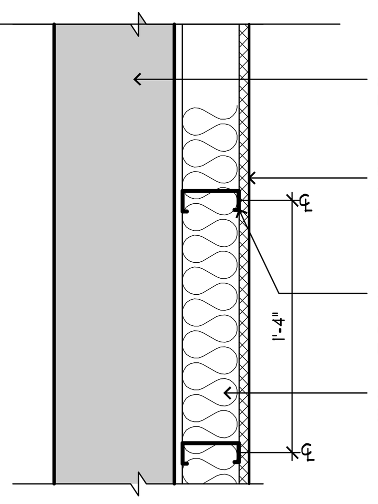
SHEET TITLE
ENLARGED ENTRY ELEVATION

SHEET NUMBER
A-403

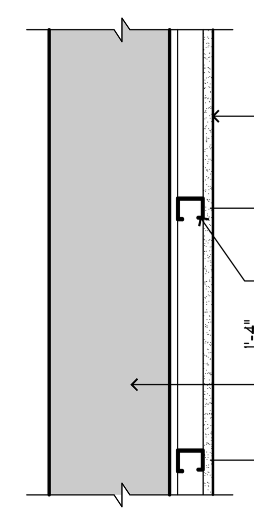
I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY

NOTE:
WALL TYPE A4-A
PROVIDE 6" 22 GA. MTL STUD @ 16" O.C.



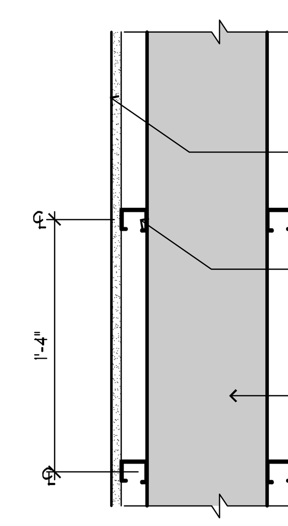
WALL TYPE A1- (EXIST. WALL W\ FURRING) E1 / A501
SCALE: 1½" = 1'-0"

I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY



WALL TYPE A2- (FURRING AT EXIST. WALL) E2 / A501
SCALE: 1½" = 1'-0"

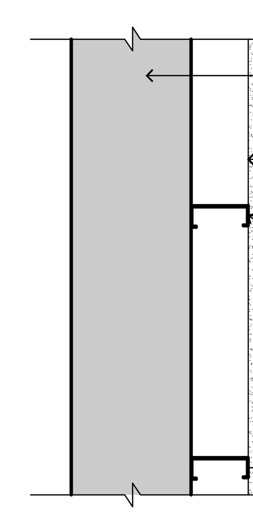
I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY



WALL TYPE- A3 (FURRING AT EXIST. WALL) E3 / A501
SCALE: 1½" = 1'-0"

I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY

NOTE:
WALL TYPE A5-A
PROVIDE 6" 22 GA. METAL STUD



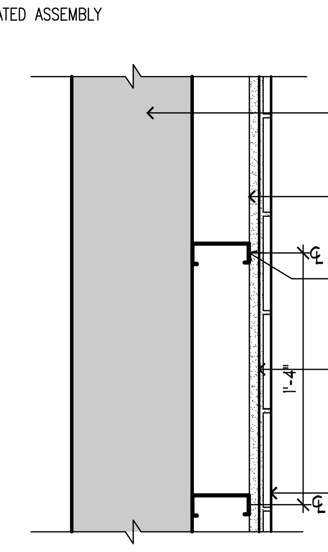
WALL TYPE A4- EXISTING AT RESTROOM E4 / A501
SCALE: 1½" = 1'-0"

NOT USED E5 / A501
SCALE: = 1'-0"

NOT USED E6 / A501
SCALE: = 1'-0"

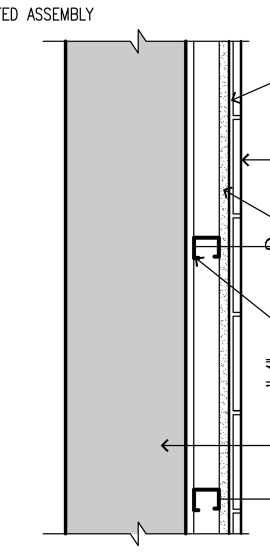
I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY

NOTE:
WALL TYPE A5-A
PROVIDE 6" 22 GA. METAL STUD



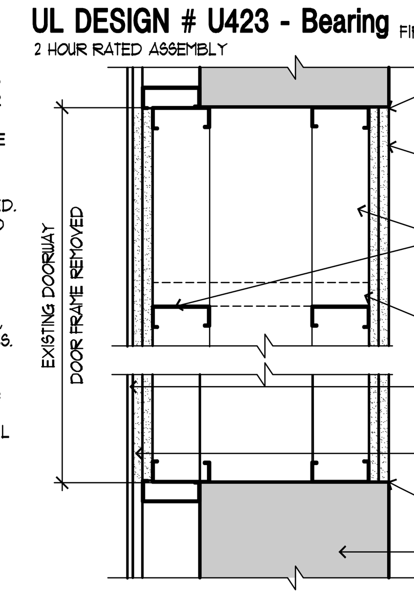
WALL TYPE A4- EXISTING AT RESTROOM D1 / A501
SCALE: 1½" = 1'-0"

I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY



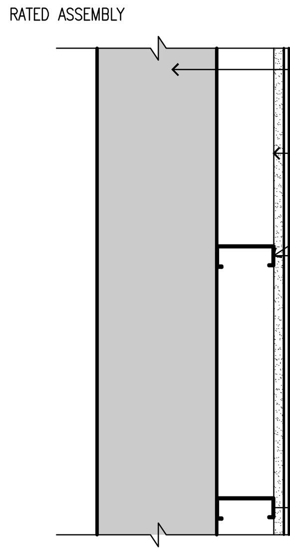
WALL TYPE- B2 D2 / A501
SCALE: 1½" = 1'-0"

UL DESIGN # U423 - Bearing
FIRE RESISTANCE RATINGS - ANSI/UL 263
2 HOUR RATED ASSEMBLY



WALL TYPE - B3 DOORWAY INFILL D3 / A501
SCALE: 1½" = 1'-0"

I.B.C. TBL. 720.1(2)-4-1.1
2 HOUR RATED ASSEMBLY

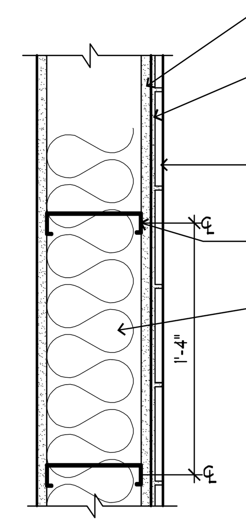


WALL TYPE B4 - EXISTING AT RESTROOM D4 / A501
SCALE: 1½" = 1'-0"

NOT USED D5 / A501
SCALE: = 1'-0"

NOT USED D6 / A501
SCALE: = 1'-0"

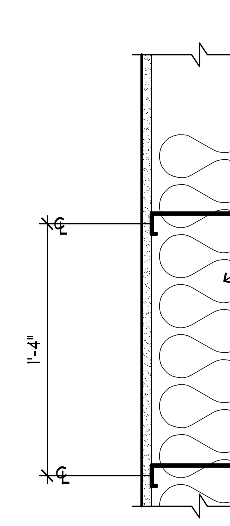
UL DESIGN # U423 - Bearing
FIRE RESISTANCE RATINGS - ANSI/UL 263
1 HOUR RATED ASSEMBLY



NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

WALL TYPE - C1 NEW MTL STUD AT TILE C1 / A501
SCALE: 1½" = 1'-0"

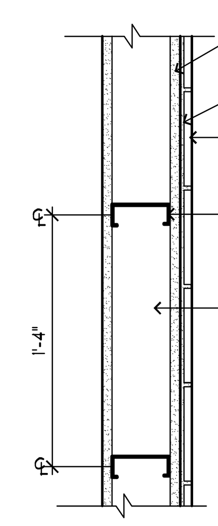
UL DESIGN # U423 - Bearing
FIRE RESISTANCE RATINGS - ANSI/UL 263
1 HOUR RATED ASSEMBLY



NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

WALL TYPE - C2- NEW METAL STUD C2 / A501
SCALE: 1½" = 1'-0"

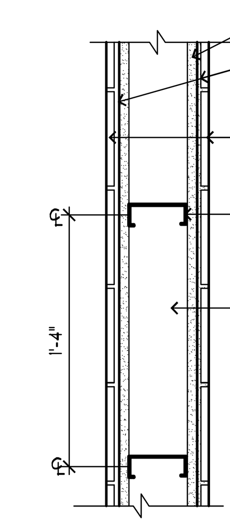
Non-Bearing Interior Partition
NON-RATED ASSEMBLY



NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

WALL TYPE - C3 NEW MTL STUD @ TILE C3 / A501
SCALE: 1½" = 1'-0"

Non-Bearing Interior Partition
NON-RATED ASSEMBLY

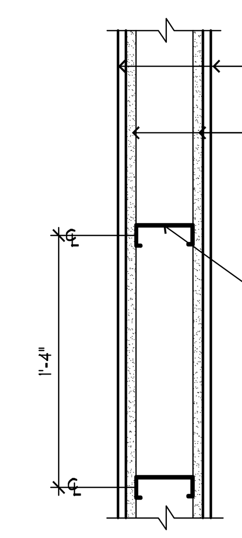


NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

WALL TYPE - C4 NEW MTL STUD @ TILE C4 / A501
SCALE: 1½" = 1'-0"

Non-Bearing Interior Partition
NON-RATED ASSEMBLY

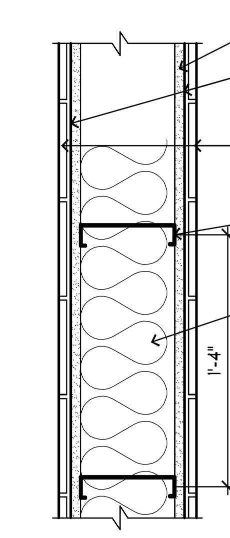
NOTE:
GYP. BOARD & SHOWER WALL MAY BE ON ONE SIDE ONLY.



NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

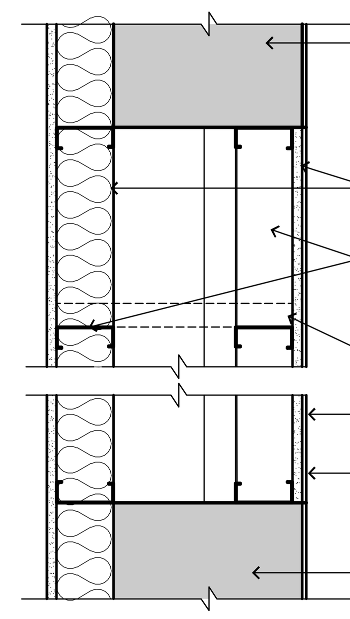
WALL TYPE - C5 NEW METAL STUD C5 / A501
SCALE: 1½" = 1'-0"

Non-Bearing Interior Partition
NON-RATED ASSEMBLY

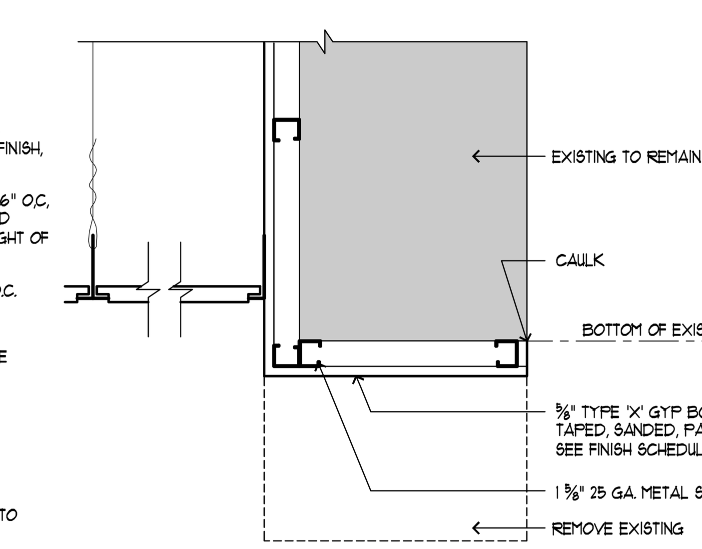


NOTE:
EXTEND WALL FROM CONCRETE SLAB TO UNDERSIDE OF DECK
B2/A501 AT BASE
B3/A501 AT ROOF

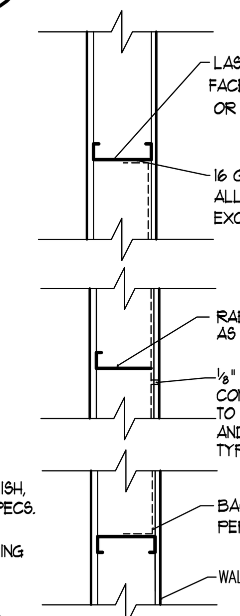
WALL TYPE - C6 NEW MTL STUD AT TILE C6 / A501
SCALE: 1½" = 1'-0"



WINDOW INFILL DETAIL B1 / A501
SCALE: 1½" = 1'-0"



HEADER DETAIL B2 / A501
SCALE: 1½" = 1'-0"



BLOCKING PLATE SCHEDULE

TYPE 1: ⅛" THICK PLATE X AS REQUIRED AT GRAB BARS (RE: CODES FOR LOADING - 20 LB/LIN. FT. OR 250 LB. CONCENTRATED LOAD

TYPE 2: 16 GA. X 4" PLATE @ ALL BASE CABINETS, SHELVES, MIRRORS, DOOR STOPS, & LIGHT FIXTURES

TYPE 3: 24 GA. X 6" PLATE FASTENED TO METAL STUDS W/ 2 - SCREWS PER STUD (MIN.) AT ALL TLT. ACCESSORIES & CHALKBOARDS- SEE NOTE #3

TYPE 4: 10 GA. X 4" PLATE AT ALL WALL HUNG CABINETS

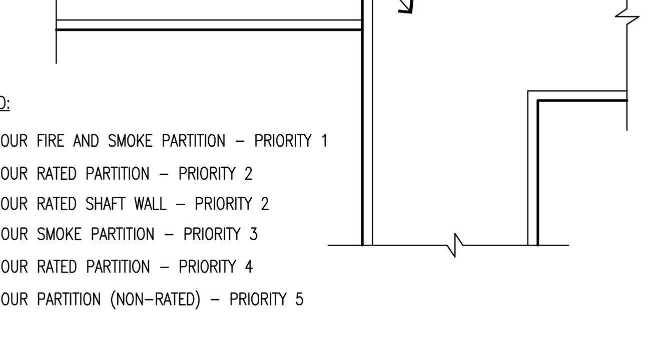
NOTE #1: SOME ITEMS MAY NOT BE LISTED CONTRACTOR IS RESPONSIBLE TO COORDINATE PROPER BACKING FOR ALL ITEMS. RE: PER SPEC

NOTE #2: FOR BACKING FOR ACCESSIBLE ACCESSORIES- SEE INFORMATION ON DET. D1/A505

NOTE #3: THIS BLOCKING MAY BE SUBSTITUTED WITH 2X6 WOOD BLOCKING

BLOCKING REQUIREMENT DETAIL B3 / A501
SCALE: NA = 1'-0" DT-MS-01

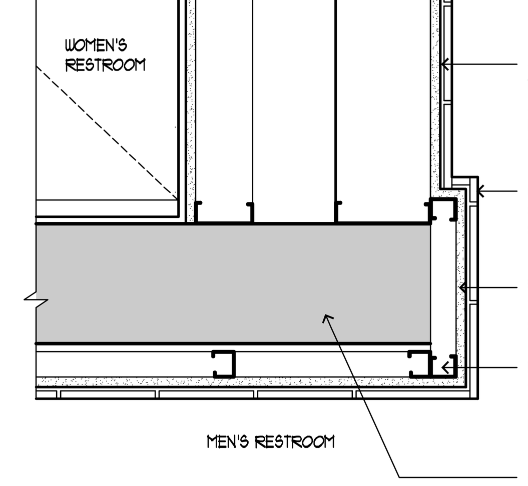
HIGHER PRIORITY WALLS TO RUN CONTINUOUS PAST A LOWER PRORITY WALL



LEGEND:

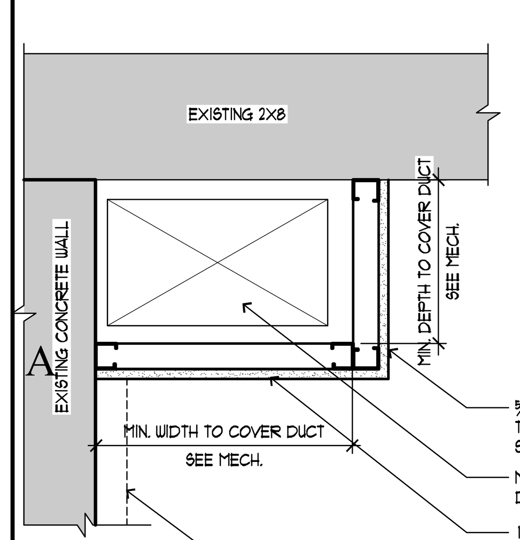
TWO HOUR FIRE AND SMOKE PARTITION – PRIORITY 1
TWO HOUR RATED PARTITION – PRIORITY 2
TWO HOUR RATED SHAFT WALL – PRIORITY 2
ONE HOUR SMOKE PARTITION – PRIORITY 3
ONE HOUR RATED PARTITION – PRIORITY 4
ONE HOUR PARTITION (NON–RATED) – PRIORITY 5

WALL RATING PRIORITY LEGEND B4 / A501
SCALE: 1-1/2" 1'-0" DA-MS-02



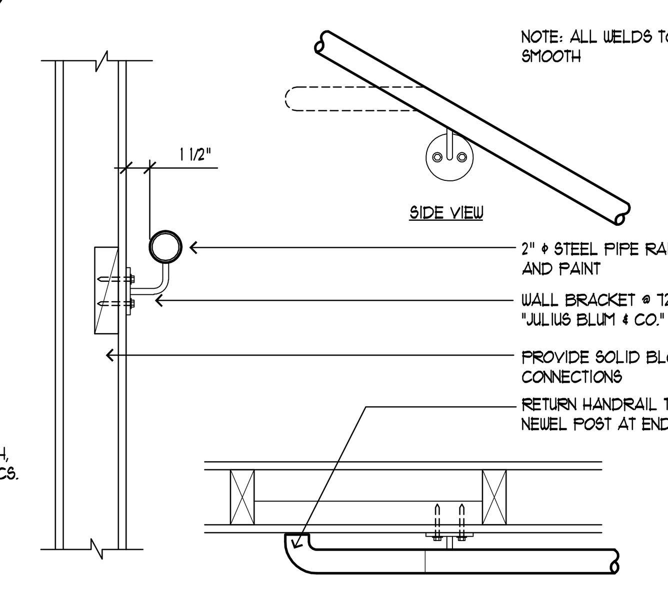
BATHROOM CORNER DETAIL B5 / A501
SCALE: 1-1/2" 1'-0" DA-WL-21

NOT USED B6 / A501
SCALE: = 1'-0"

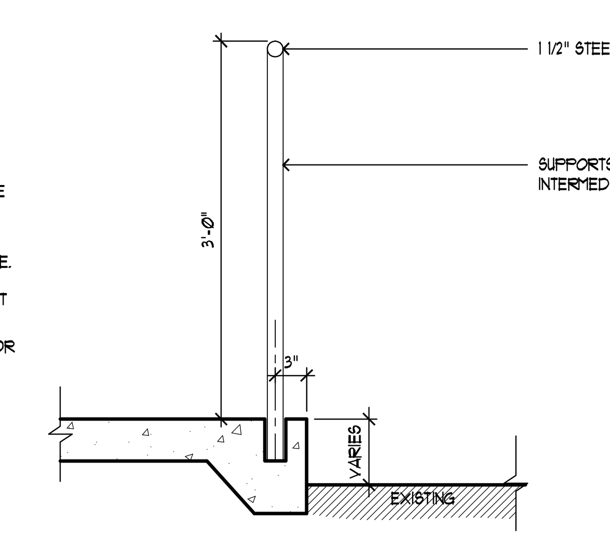


FURR OUT DETAIL @ MECHANICAL DUCT A1 / A501
SCALE: 1-1/2" 1'-0" DA-ST-01

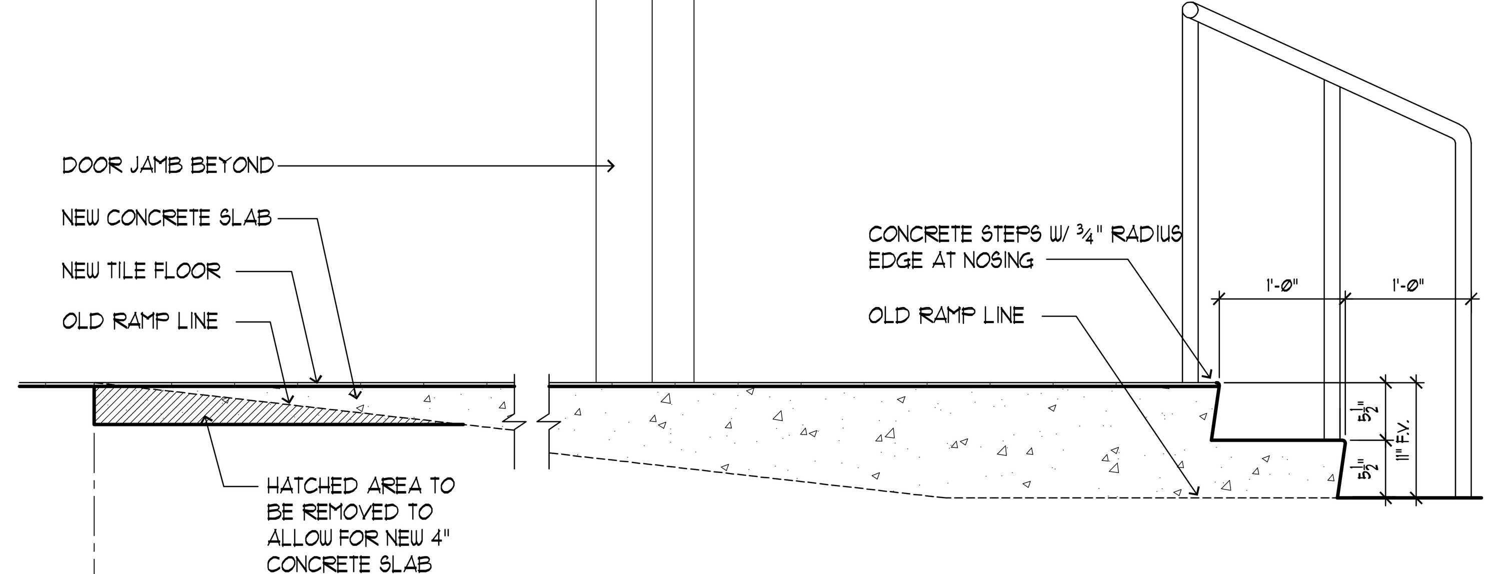
NOTE: ALL WELDS TO BE GROUND SMOOTH



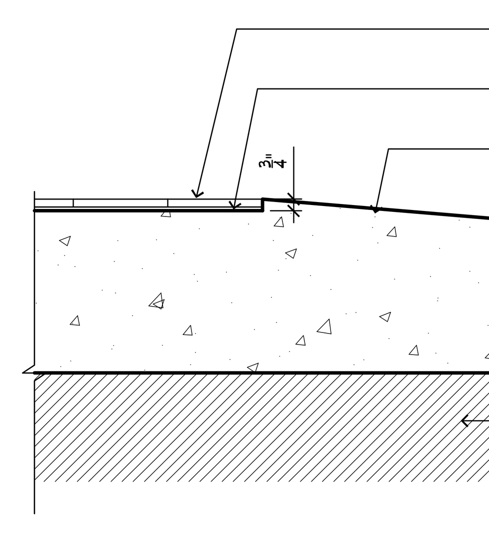
HAND RAIL ATTACHMENT DETAIL A2 / A501
SCALE: 1-1/2" 1'-0" DA-ST-01



CURB/GAURD DETAIL A3 / A501
SCALE: 1" = 1'-0" DA-ST-02



FLOOR/STAIR DETAIL A5 / A501
SCALE: 1" = 1'-0" DA-ST-02



RAMP TO LANDING TRANSITION A6 / A501
SCALE: 1½" = 1'-0"

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UTAH NATIONAL GUARD

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MARK	DATE	DESCRIPTION
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ISSUE DATE: 12/14/2009

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CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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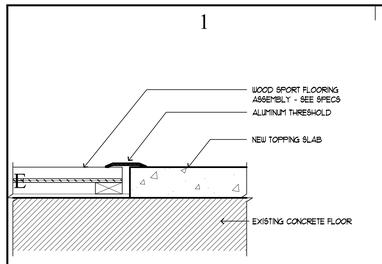
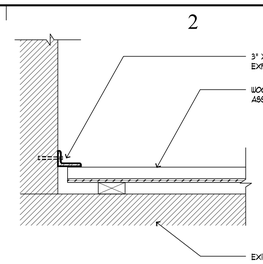
SHEET TITLE
ARCHITECTURAL DETAILS

SHEET NUMBER
A-501

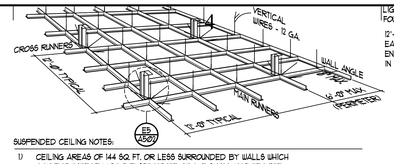


COURT FLOOR TRANSITION — E1 / A502
SCALE: 1½" = 1'-0"



COURT FLOOR TO WALL TRANSITION — E2 / A502
SCALE: 1½" = 1'-0"

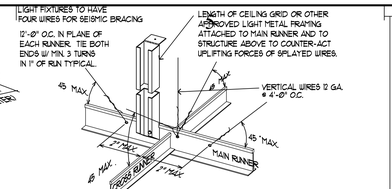
COURT LOGO — E3 / A502
SCALE: NTS = 1'-0"



SUSPENDED CEILING NOTES:

1) CEILING AREAS OF 144 SQ. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES.
2) EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN. 5 TURNS.
3) CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12 FEET.
4) LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.
5) ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT.
6) PROVIDE 4 WIRES (1 EA. CORNER) FOR SUSPENDED LIGHT FIXTURES.

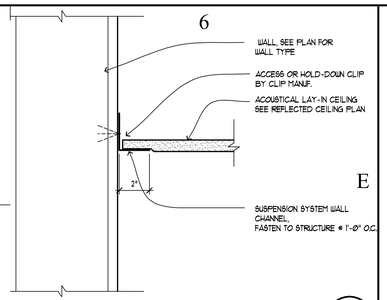
SUSPENDED CEILING DETAIL — E4 / A502
SCALE: NTS = 1'-0" DA-CG-01



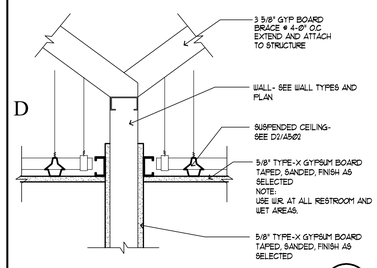
SUSPENDED CEILING DETAIL NOTES:

1) ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID. IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE FIXTURE. TWO ADDITIONAL WIRES SHALL BE CONNECTED TO THE LIGHT HOUSING AND TO THE STRUCTURE ABOVE.
2) WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT, NOR SHALL THEY BE CLOSER THAN 6" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

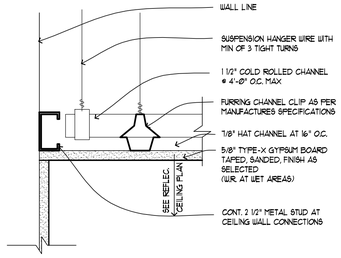
SUSPENDED CEILING DETAIL — E5 / A502
SCALE: NTS = 1'-0" DA-CG-02



ACOUSTICAL CEILING TERMINATION AT WALL — E6 / A502
SCALE: 3" = 1'-0" DA-CG-05

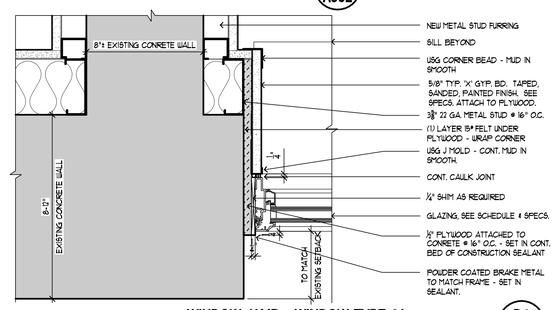


WALL DETAIL AT CEILING — D1 / A502
SCALE: 1-1/2" 1'-0" DA-CG-07



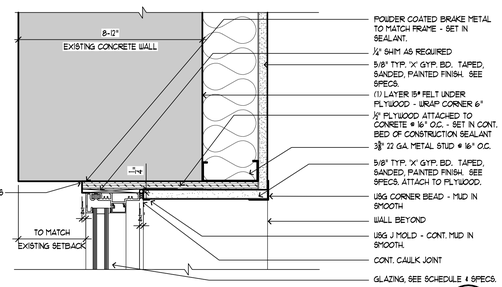
SUSPENDED GYPSUM CEILING DETAIL — D2 / A502
SCALE: 3" = 1'-0" DA-CG-06

NOT USED — D3 / A502
SCALE: = 1'-0"

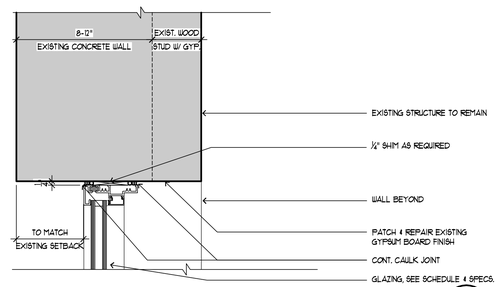


WINDOW JAMB - WINDOW TYPE 2A — D4 / A502
SCALE: 3" = 1'-0"

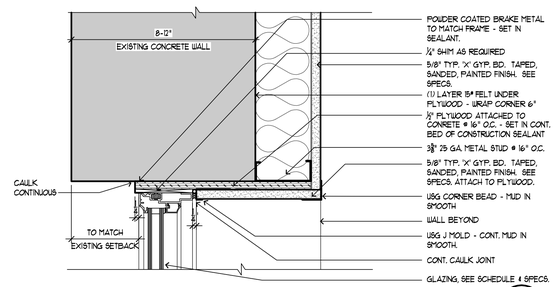
NOT USED — D6 / A502
SCALE: = 1'-0"



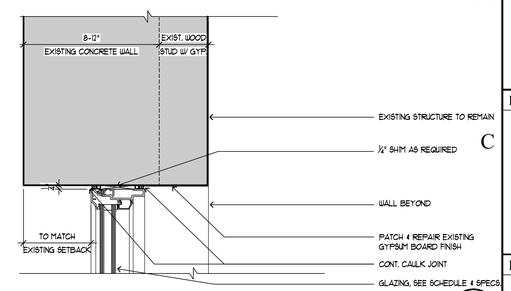
WINDOW HEAD - MAIN LEVEL TYP. — C2 / A502
SCALE: 3" = 1'-0"



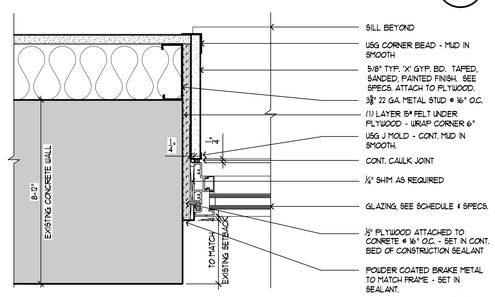
WINDOW HEAD - WINDOW TYPE 2B — C3 / A502
SCALE: 3" = 1'-0"



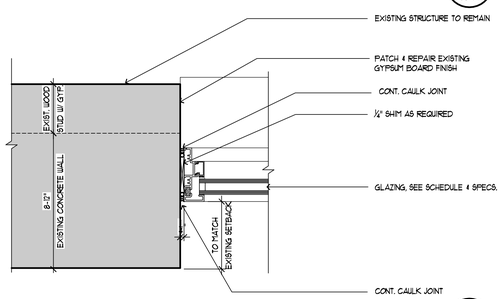
WINDOW HEAD - UPPER LEVEL TYP. — C4 / A502
SCALE: 3" = 1'-0"



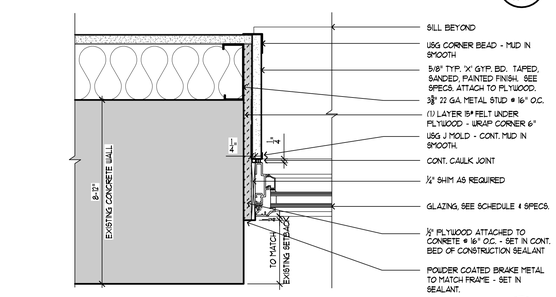
WINDOW HEAD - WINDOW TYPE 8A — C6 / A502
SCALE: 3" = 1'-0"



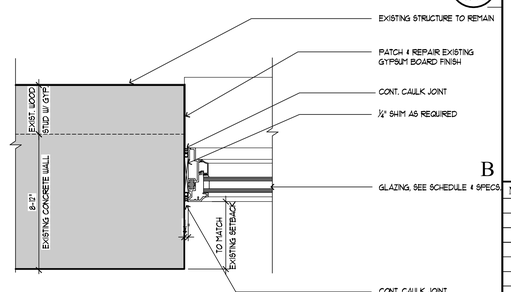
WINDOW JAMB - MAIN LEVEL TYP. — B2 / A502
SCALE: 3" = 1'-0"



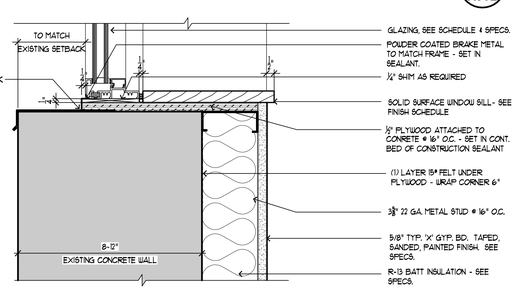
WINDOW JAMB - WINDOW TYPE 2B — B3 / A502
SCALE: 3" = 1'-0"



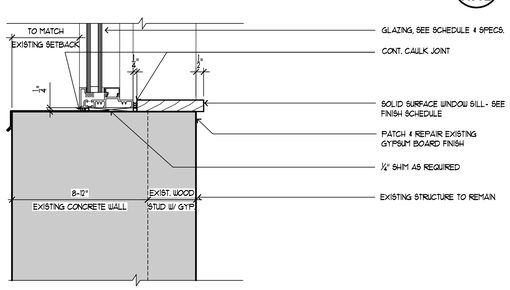
WINDOW JAMB - UPPER LEVEL TYP. — B4 / A502
SCALE: 3" = 1'-0"



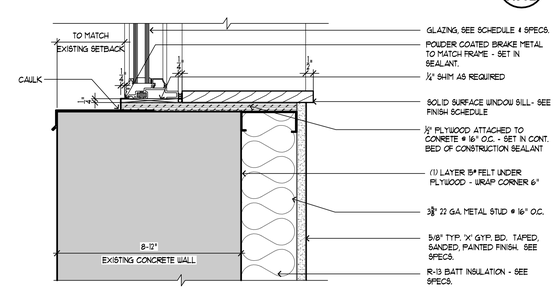
WINDOW JAMB - WINDOW TYPE 8A — B6 / A502
SCALE: 3" = 1'-0"



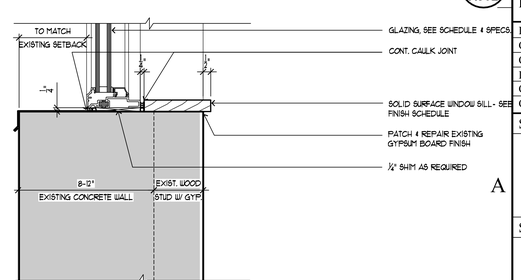
WINDOW SILL - MAIN LEVEL TYP. — A2 / A502
SCALE: 3" = 1'-0"



WINDOW SILL - WINDOW TYPE 2B — A3 / A502
SCALE: 3" = 1'-0"



WINDOW SILL - UPPER LEVEL TYP. — A4 / A502
SCALE: 3" = 1'-0"



WINDOW SILL - WINDOW TYPE 8A — A6 / A502
SCALE: 3" = 1'-0"

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	XX-XX-XX	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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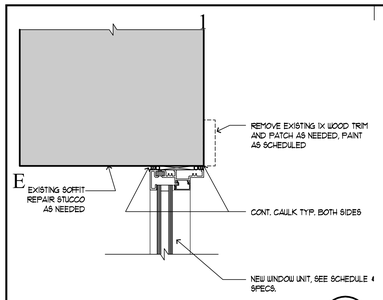
SHEET TITLE
ARCHITECTURAL DETAILS

SHEET NUMBER
A-502

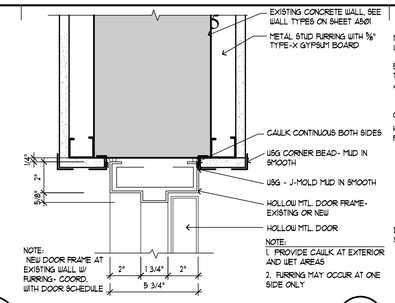


HEAD DETAIL AT ENTRY — E1 / A503
SCALE: 3" = 1'-0"

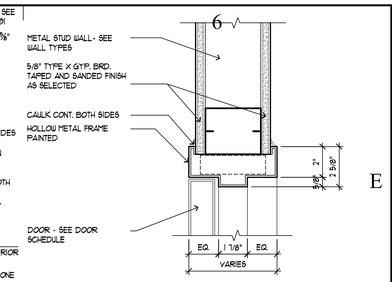
NOT USED — E2 / A503
SCALE: = 1'-0"

NOT USED — E3 / A503
SCALE: = 1'-0"

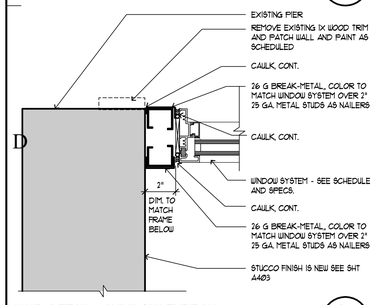
NOT USED — E4 / A503
SCALE: = 1'-0"



EXISTING DOOR HEAD DETAIL — E5 / A503
SCALE: 3" = 1'-0"



DOOR HEADER DETAIL - METAL STUD WALL — E6 / A503
SCALE: 3" = 1'-0"

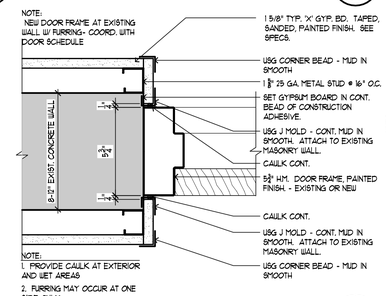


JAMB DETAIL - WINDOW TYPE W1 — D1 / A503
SCALE: 3" = 1'-0"

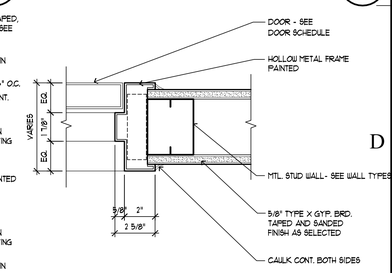
NOT USED — D2 / A503
SCALE: = 1'-0"

NOT USED — D3 / A503
SCALE: = 1'-0"

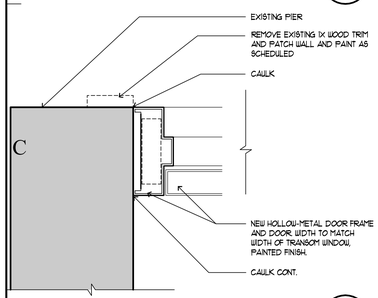
NOT USED — D4 / A503
SCALE: = 1'-0"



EXISTING DOOR JAMB DETAIL — D5 / A503
SCALE: 3" = 1'-0"



DOOR JAMB DETAIL - METAL STUD WALL — D6 / A503
SCALE: 3" = 1'-0"



DOOR JAMB @ PIER DETAIL — C1 / A503
SCALE: 3" = 1'-0"

NOT USED — C2 / A503
SCALE: = 1'-0"

NOT USED — C3 / A503
SCALE: = 1'-0"

NOT USED — C4 / A503
SCALE: = 1'-0"

NOT USED — C5 / A503
SCALE: = 1'-0"

NOT USED — C6 / A503
SCALE: = 1'-0"

NOT USED — B2 / A503
SCALE: = 1'-0"

NOT USED — B2 / A503
SCALE: = 1'-0"

NOT USED — B3 / A503
SCALE: = 1'-0"

NOT USED — B4 / A503
SCALE: = 1'-0"

NOT USED — B5 / A503
SCALE: = 1'-0"

NOT USED — B6 / A503
SCALE: = 1'-0"

NOT USED — A2 / A503
SCALE: = 1'-0"

NOT USED — A2 / A503
SCALE: = 1'-0"

NOT USED — A3 / A503
SCALE: = 1'-0"

NOT USED — A4 / A503
SCALE: = 1'-0"

NOT USED — A5 / A503
SCALE: = 1'-0"

NOT USED — A6 / A503
SCALE: = 1'-0"

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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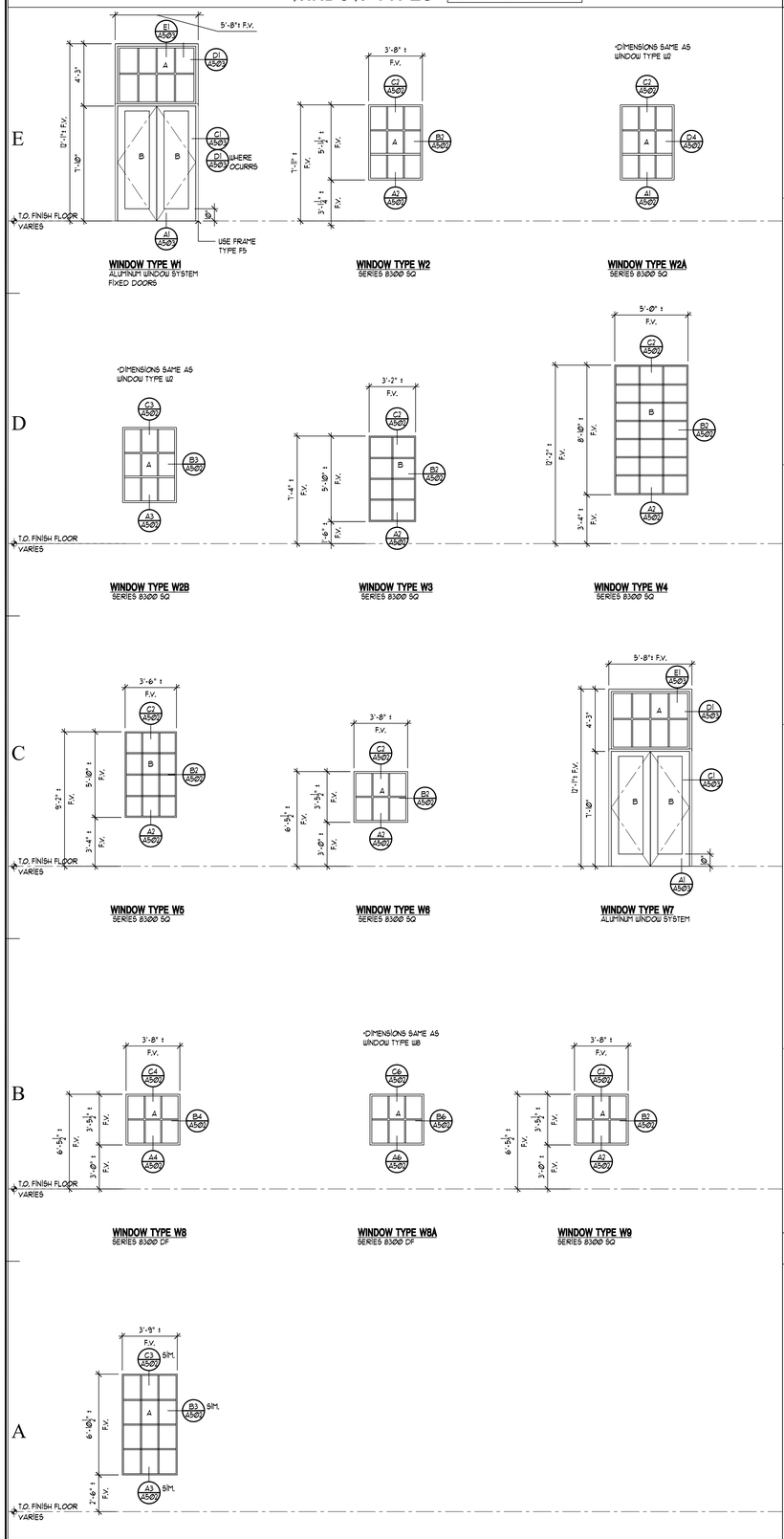
SHEET TITLE
ARCHITECTURAL DETAILS

SHEET NUMBER
A-503

WINDOW TYPES

NOTE:
FIELD VERIFY ALL WINDOW OPENINGS



WINDOW TYPE W1
ALUMINUM WINDOW SYSTEM
FIXED DOORS

WINDOW TYPE W2
SERIES 8300 SQ

WINDOW TYPE W2A
SERIES 8300 SQ

WINDOW TYPE W2B
SERIES 8300 SQ

WINDOW TYPE W3
SERIES 8300 SQ

WINDOW TYPE W4
SERIES 8300 SQ

WINDOW TYPE W5
SERIES 8300 SQ

WINDOW TYPE W6
SERIES 8300 SQ

WINDOW TYPE W7
ALUMINUM WINDOW SYSTEM

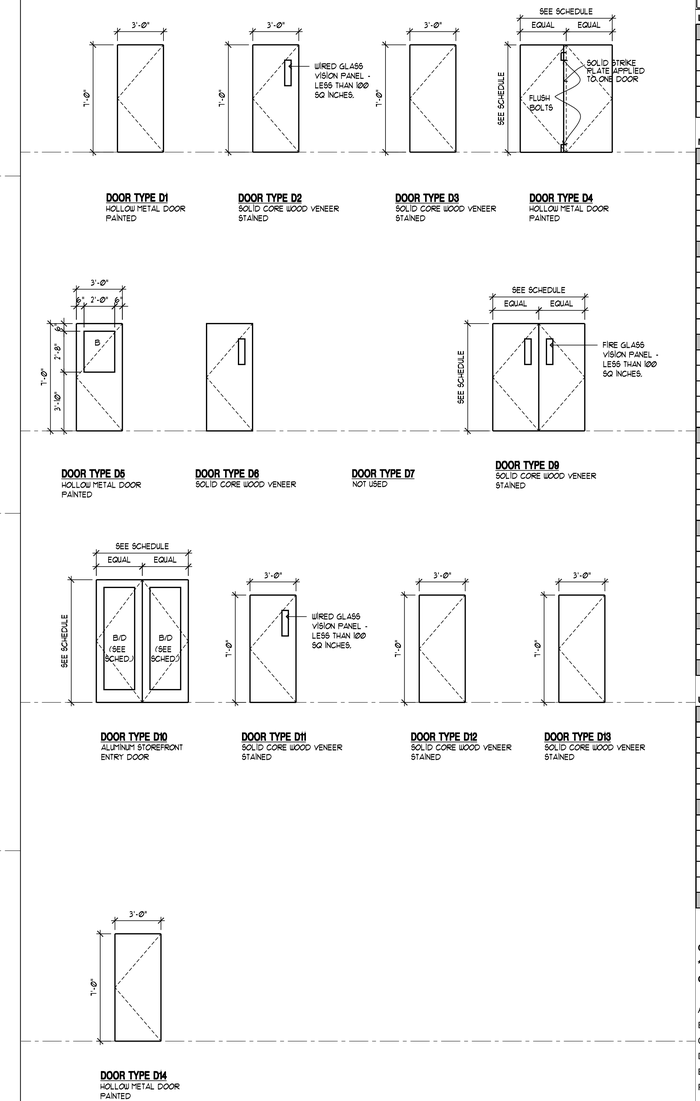
WINDOW TYPE W8
SERIES 8300 DF

WINDOW TYPE W8A
SERIES 8300 DF

WINDOW TYPE W9
SERIES 8300 SQ

WINDOW TYPE W10
SERIES 8300 DF

DOOR TYPES



DOOR TYPE D1
HOLLOW METAL DOOR
PAINTED

DOOR TYPE D2
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D3
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D4
HOLLOW METAL DOOR
PAINTED

DOOR TYPE D5
HOLLOW METAL DOOR
PAINTED

DOOR TYPE D6
SOLID CORE WOOD VENEER

DOOR TYPE D7
NOT USED

DOOR TYPE D9
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D10
ALUMINUM STOREFRONT
ENTRY DOOR

DOOR TYPE D11
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D12
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D13
SOLID CORE WOOD VENEER
STAINED

DOOR TYPE D14
HOLLOW METAL DOOR
PAINTED

DOOR TYPES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

FILLMORE ARMORY REMODEL

DOOR NO	SIZE	DOOR TYPE	DOOR THICK	DOOR MATL	DOOR FIN	DOOR GLAZ	FRAME TYPE	FRAME THICK	FRAME MATL	FRAME FIN	FRAME GLAZ	RATING	HDW GRP	DR/FR INSUL	REMARKS
LOWER LEVEL															
001A	3'-0" X 7'-0"	D16	1-3/4"	HM	PT	---	EX	---	---	PT	---	---	5		STORAGE
002A	3'-0" X 7'-0"	D16	1-3/4"	HM	PT	---	EX	---	---	PT	---	---	5		MECHANICAL
002B	3'-0" X 7'-0"	D16	1-3/4"	HM	PT	---	EX	---	---	PT	---	---	5		MECHANICAL
003A	3'-0" X 7'-0"	D16	1-3/4"	HM	PT	---	EX	---	---	PT	---	---	5		VAULT
MAIN LEVEL															
101A	PR 2'-10" X 7'-0"	D10	1-3/4"	AL	CL	A/B	F5	4-1/2"	AL	CL	B	---	1	YES	ENTRY VESTIBULE / PANIC
101B	3'-0" X 7'-0"	D6	1-3/4"	WD	SN	---	EX	---	HM	PT	---	20 MIN	2	---	VESTIBULE / LOBBY
101C	3'-0" X 7'-0"	D6	1-3/4"	WD	SN	---	F1	---	HM	---	---	20 MIN	2	---	STAIR / LOBBY
101D	3'-0" X 7'-0"	D13	1-3/4"	WD	SN	---	F1	---	HM	PT	---	20 MIN	4	---	LOBBY / JANITOR
102A	3'-0" X 7'-0"	D6	1-3/4"	WD	SN	---	EX	---	HM	PT	---	20 MIN	3	---	OFFICE / HALL
104A	3'-0" X 7'-0"	D6	1-3/4"	WD	ST	---	F1	---	HM	PT	---	20 MIN	3	---	OFFICE / HALL
105A	PR 3'-0" X 7'-0"	D9	1-3/4"	WD	SN	B	F4	5-3/4"	HM	PT	B	90 MIN	6	---	ENTRY VESTIBULE / PANIC
106A	3'-0" X 7'-0"	D6	1-3/4"	WD	SN	---	EX	---	HM	PT	---	20 MIN	4	---	KITCHEN / LOBBY
107A	3'-0" X 7'-0"	D13	1-3/4"	WD	SN	---	F1	5-3/4"	HM	PT	---	20 MIN	8		LOBBY / RR
109A	3'-0" X 7'-0"	D13	1-3/4"	WD	SN	---	F1	5-3/4"	HM	PT	---	20 MIN	8		LOBBY / RR
110A	3'-0" X 7'-0"	D5	1-3/4"	HM	PT	---	F7	---	HM	PT	---	---	12	YES	EXTERIOR / PANIC
110B	8'-6" X 8'-0"	D14	5-1/2"	CT	---	---	EX	---	---	---	---	---	---		OVERHEAD COILING
110C	3'-0" X 7'-0"	D14	5-1/2"	CT	---	---	EX	---	HM	PT	---	---	7		DRILL HALL / GARAGE
110D	3'-0" X 7'-0"	D5	1-3/4"	HM	PT	---	F7	---	HM	PT	---	---	12	YES	EXTERIOR / PANIC
111A	3'-0" X 7'-0"	D14	1-3/4"	HM	PT	---	EX	---	HM	PT	---	---	5		OFFICE / SUPPLY
111B	3'-0" X 7'-0"	D14	1-3/4"	HM	PT	---	EX	---	HM	PT	---	---	5		OFFICE / SUPPLY
112A	3'-0" X 7'-0"	D1	1-3/4"	HM	PT	---	EX	---	HM	PT	---	90 MIN	13		OFFICE / DRILL HALL
112B	3'-0" X 7'-0"	D14	1-3/4"	HM	PT	---	EX	---	HM	PT	---	---	5		OFFICE / DRILL HALL
113A	3'-0" X 7'-0"	---	---	---	---	---	---	---	---	---	---	---	---		SUPPLY VAULT/NO CHANGE
113B	3'-0" X 7'-0"	D14	1-3/4"	HM	PT	D	EX	---	---	PT	---	---	9	YES	SUPPLY VAULT/EXT.
115A	3'-0" X 7'-0"	D14	1-3/4"	HM	PT	---	EX	---	HM	PT	---	---	5		WEIGHT ROOM
118A	PR 3'-0" X 7'-0"	D4	1-3/4"	HM	PT	---	F4	---	HM	PT	---	20 MIN.	11		MECH./GARAGE
118B	3'-0" X 7'-0"	D5	1-3/4"	HM	PT	---	F8	---	HM	PT	---	---	10	YES	GARAGE
118C	13'-0" X 12'-0"	---	---	---	---	---	EX	---	---	---	---	---	---		OVERHEAD SECTIONAL
118D	13'-0" X 12'-0"	---	---	---	---	---	EX	---	---	---	---	---	---		OVERHEAD SECTIONAL
118E	13'-0" X 12'-0"	---	---	---	---	---	EX	---	---	---	---	---	---		OVERHEAD SECTIONAL
UPPER LEVEL															
201A	3'-0" X 7'-0"		1-3/4"	HM	PT	---	EX	---	---	---	---	20 MIN.	7		FDC ROOM
202A	3'-0" X 7'-0"		1-3/4"	HM	PT	---	EX	---	---	---	---	---	5		CLASSROOM
203A	PR 2'-0" X 7'-0"		1-3/4"	HM	PT	---	N	5-3/4"	HM	PT	---	---	14		I.T. CLOSET
204A	3'-0" X 7'-0"		1-3/4"	HM	PT	---	EX	---	---	---	---	---	5		CLASSROOM
204B	3'-0" X 7'-0"		1-3/4"	HM	PT	---	N	5-3/4"	HM	PT	---	20 MIN.	7		CLASSROOM
205A	3'-0" X 7'-0"		1-3/4"	HM	PT	---	EX	---	---	---	---	20 MIN.	3		NCO
206A	3'-0" X 7'-0"		1-3/4"	HM	PT	---	EX	---	---	---	---	---	12		STAIR

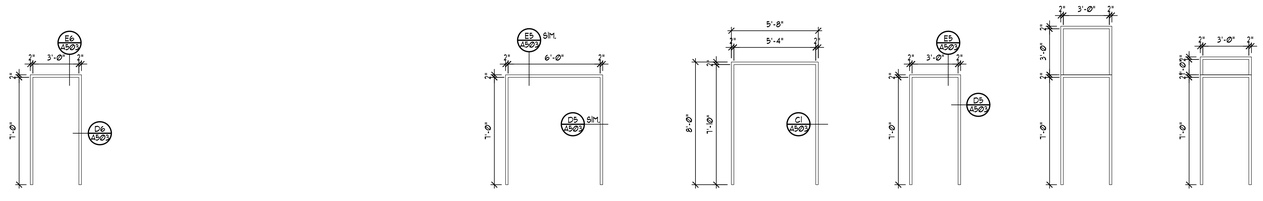
CONTRACTOR IS RESPONSIBLE TO FIELD VERIFYING ALL WALL & FRAME THICKNESS BEFORE ORDERING. (FRAME DIMENSIONS ARE APPROXIMATE)
*** SEE DOOR ELEVATION FOR GLAZING TYPE LOCATIONS**
GLAZING TYPE:

A - INSULATED FLOAT GLASS
B - INSULATED TEMPERED GLASS
C - 1/4" FLOAT GLASS
D - 1/4" TEMPERED GLASS
E - 1/2" FLOAT GLASS
F - 1/4" WIRED GLASS

DOOR SCHEDULE NOTE:

1 - WD - WOOD
2 - CT - COUNTER DOOR
3 - ST - STEEL
4 - HM - HOLLOW METAL
5 - EX - EXISTING
6 - N/A - NOT APPLICABLE

FRAME TYPES



FRAME TYPE F1
H.M. DOOR FRAME
PAINTED

FRAME TYPE F2
NOT USED

FRAME TYPE F3
NOT USED

FRAME TYPE F4
H.M. DOOR FRAME
PAINTED

FRAME TYPE F5
H.M. DOOR FRAME
PAINTED

FRAME TYPE F6
H.M. DOOR FRAME
PAINTED

FRAME TYPE F7
H.M. DOOR FRAME
PAINTED

FRAME TYPE F8
H.M. DOOR FRAME
PAINTED

FRAME TYPES
SCALE: 1/4" = 1'-0"

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CREATED BY: JSA ARCHITECTS

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CONSULTANT:

BUILDING NAME:
FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION
	xx-xx-xx	XXX

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
CAD PROJECT NO: 09067
CAD DWG FILE:
DRAWN BY: XXX
CHK'D BY: CDJ
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SHEET TITLE
DOOR & WINDOW SCHEDULES

SHEET NUMBER
A-601

GENERAL NOTES:

1. INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK.
2. ALL RIGID ROUND DUCTWORK SHALL RECEIVE 1-½" – 0.75 LBS/CU.FT. FIBERGLASS DUCT WRAP. ALL LOW PRESSURE RECTANGULAR DUCT SHALL RECEIVE 1" – 1.5 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-½" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
3. DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
4. DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
5. THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
6. THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
7. THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL HIGH PRESSURE DUCTWORK UPSTREAM OF VAV TERMINAL BOXES SHALL BE CONSTRUCTED FOR 2" W.C. STATIC PRESSURE, SEAL CLASS "A". ALL OTHER DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
8. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
9. THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
10. ALL VAV BOXES, RTU's, WATER FLOW RATES AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO SUBSTANTIAL COMPLETION. BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERIFIED.
11. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
12. ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.
13. VENT THE HIGH POINTS OF NEW MECHANICAL PIPING.
14. PROVIDE INSULATION FOR THE FOLLOWING:
    a. DOMESTIC HOT WATER PIPING:
       1" THICK FOR ALL PIPE SIZES.
    b. DOMESTIC COLD WATER PIPING:
       ½" THICK FOR PIPE SIZES ½" TO 6".
       (PROVIDE CONTINUOUS VAPOR BARRIER.)
    c. ROOF AND OVERFLOW DRAINS:
       1" THICK FOR ALL PIPE SIZES
       INSULATION ONLY REQUIRED ON HORIZONTAL
       PRIMARY DRAINS AND ALL DRAIN BOWLS
    d. STEAM PIPING
       3" THICK FOR ALL PIPE SIZES.
15. INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
16. ——— INDICATES EXISTING OR FUTURE. ——— INDICATES NEW MATERIAL. - - - - - INDICATES DEMO MATERIAL. IF THERE ARE ANY DISCREPANCIES AS TO WHAT IS NEW AND WHAT IS EXISTING, CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER. THE EXISTING SHELL DOCUMENTS ARE AVAILABLE THROUGH THE ARCHITECT. ADDITIONAL COSTS WILL NOT BE TOLERATED FOR THE CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXSTING SHELL AND SITE CONDITIONS.
17. MECHANICAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL ON SIZE/QUANTITY OF MOTORIZED DAMPERS. I. E. FIRE/SMOKE DAMPERS, FIRE DAMPERS, MOTORIZED DAMPERS, ETC. . .
18. EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
19. DIVISION 15 MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR FCU's, VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
20. HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
21. ALL TAKE-OFF'S THROUGHOUT THE ENTIRE BUILDING SHALL BE HIGH EFFICIENCY TAKE-OFF'S (HET's). NO EXCEPTIONS TAKEN.
22. ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
23. DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILDS OF BUILDINGS MECHANCIAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.
24. ALL VFD'S ARE TO BE PROVIDED AND WIRED UP BY ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
25. ALL EXPOSED PIPING IS TO BE INSULATED AND WEATHERPROOFED. SEE SPEC SECTION 15080.
26. ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED OFF OF FINISHED FLOOR ELEVATION AT 100.0'. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS OF ALL LEVELS.
27. ALL FLOOR DRAINS / FLOOR SINKS THROUGH-OUT THE ENTIRE BUILDING ARE TO HAVE TRAP SEAL PRIMER VALVES OR PROSET TRAP GUARDS PROVIDED / INSTALL BY PLUMBING CONTRACTOR.
28. ALL GAS METER REGUALTORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE MECHANICAL CONTRACTOR OR PROVIDE / INSTALL VENTLESS REGULATORS IF ALLOWED BY THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS FOR CLARITY.
29. ALL FIRE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH THE REQUIREMENTS OF UL 555. ALL SMOKE DAMPERS SHOWN ON PLANS SHALL COMPLY WITH UL 555S. ALL COMBINATION FIRE / SMOKE DAMPERS SHOWN ON PLANS ARE TO COMPLY WITH BOTH UL 555 AND UL 555S. FOR ALL FIRE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FD" (OR EQUAL), TO MEET STANDARD UL 555 RATING. FOR ALL SMOKE DAMPERS AND COMBINATION FIRE SMOKE DAMPERS CONTRACTOR IS TO PROVIDE / INSTALL "NCA MODEL FSD-3V-211" (OR EQUAL), TO MEET STANDARD UL 555 AND UL 555S RATINGS.
30. THE MECHANICAL CONTRACTOR IS TO HAVE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH TYPE OF FIRE DAMPER, SMOKE DAMPER, AND COMBO FIRE / SMOKE DAMPERS ON THE JOB SITE AT TIME OF INSPECTIONS.
31. ALL DUCTWORK IS TO BE PROVIDED / INSTALLED AS HIGH UP AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.

PIPING LEGEND

Item	Symbol	Item	Symbol
GATE VALVE		CHILLED WATER SUPPLY	CWS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	CWR
BALL VALVE		CONDENSER WATER SUPPLY	CS
BUTTERFLY VALVE		CONDENSER WATER RETURN	CR
MOTORIZED BUTTERFLY VALVE	M	HEATING WATER SUPPLY	HWS
HEAT TRACING		HEATING WATER RETURN	HWR
DEIONIZED WATER	DI	WATER TREATMENT	WT
CHECK VALVE (SWING OR LIFT AS REQ'D)		FIRE DEPT. HORN & LIGHT	
SOLENOID VALVE		HOT GAS	HG
AUTOMATIC CONTROL VALVE (2-WAY)		FLEXIBLE PIPE CONNECTION	
AUTOMATIC CONTROL VALVE (3-WAY)		REDUCED PRESSURE BACKFLOW PREVENTER	RPBP
PRESSURE REDUCING VALVE		DIRECTION OF FLOW	
P & T RELIEF VALVE		ELBOW DOWN	
AIR VENT (AUTOMATIC)		ELBOW UP	
REFRIGERANT LIQUID	RL	PIPE CAP	
REFRIGERANT SUCTION	RS	TEE DOWN	
THERMAL EXPANSION VALVE		UNION	
STRAINER		DOMESTIC COLD WATER	
CIRCUIT SETTER		DOMESTIC HOT WATER	
FLOW METER		HOT WATER CIRC.	
PET COCK OR GAUGE COCK		TEMPERED WATER	T
PRESSURE GAUGE W/GAUGE COCK		SANITARY (PLBG) VENT	
THERMOMETER		SANITARY SEWER ABOVE GRADE	
TEMPERATURE & PRESSURE TEST PLUG		SANITARY SEWER BELOW GRADE	
IN-LINE PUMP		DRAIN	D
FLOW SWITCH	F	ROOF DRAIN PIPING	RD
AQUASTAT	A	OVERFLOW DRAIN PIPING	OD
HOSE BIBB OR SILLCOCK		STORM DRAIN PIPING ABOVE GRADE	SD
VACUUM	V	STORM DRAIN PIPING BELOW GRADE	SD
FLOOR DRAIN		FIRE SERVICE	F
FLOOR SINK		NATURAL GAS	NG
HOT GAS BYPASS	HGBP	COMPRESSED AIR	CA
WALL CLEANOUT		VENT THROUGH ROOF	
FLOOR OR GRADE CLEANOUT		STEAM	S
GRADE CLEANOUT W/ CONCRETE PAD		CONDENSATE	C
SNOWMELT PIPING @ 8" O.C.		GREASE WASTE	GW
ROOF DRAIN WITH SNOWMELT PIPING INSTALLED INSIDE PIPE		SUB-SLAB DRAINAGE	SSD
		FRENCH DRAIN OR RUBBLE DRAIN	FD

MECHANICAL LEGEND

- RETURN OR EXHAUST DUCT DOWN
- RETURN OR EXHAUST DUCT UP
- SUPPLY AIR DUCT DOWN
- SUPPLY AIR DUCT UP
- SPIN-IN FITTING W/MVD
- FLEXIBLE DUCT
- CEILING SLOT DIFFUSER
- CEILING DIFFUSER
- CEILING EXHAUST GRILLE
- CEILING GRILLE
- ACCESS PANEL
- MANUAL VOLUME DAMPER
- MOTORIZED DAMPER (M)
- CEILING MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.
- WALL MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF. (OBD)
- DUCT TRANSITION WITH MIN. LENGTH INDICATED (24")
- FIRE DAMPER (F)
- COMBINATION FIRE/SMOKE DAMPER (FS)
- SMOKE DAMPER (S)
- THERMOSTAT OR TEMP SENSOR (T)
- POINT OF CONNECTION TO EXISTING
- DETAIL TAG — DETAIL NO. / DRAWING NO.
- KEYED NOTE — NOTE NO.
- SECTION CUT LINE — SECTION NO. / DRAWING NO.
- CONTROL TRANSFORMER (TRX)
- ROUTE DUCT THROUGH JOISTS (RTJ)
- DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW
- DIRECTION OF AIRFLOW
- BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED
- SECURITY BARS
- CARBON DIOXIDE ROOM/DUCT SENSOR (C)

AIR DEVICE SCHEDULE*

GRILLE NUMBER / GRILLE CFM

PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS
S-1	SUPPLY GRILLE	12" X 6"	SEE PLANS	19	0.125	275	OBD	BY ARCH.	PRICE #520D	DOUBLE DEFLECTION SET AT 45°
S-2	SUPPLY GRILLE	14" X 10"	SEE PLANS	18	0.093	485	OBD	BY ARCH.	PRICE #520D	DOUBLE DEFLECTION SET AT 45°
S-3	RADIAL SUPPLY	14"ø	SEE PLANS	27	0.143	640	IN DUCT	BY ARCH.	AIR DIFFUSION PRODUCTS #DNR-2	ROUND
–	–	–	SEE PLANS	–	–	–	–	–	–	–
–	–	–	SEE PLANS	–	–	–	–	–	–	–
–	–	–	SEE PLANS	–	–	–	–	–	–	–
–	–	–	SEE PLANS	–	–	–	–	–	–	–
R-1	RETURN GRILLE	12" X 12"	SEE PLANS	15	0.066	600	OBD	BY ARCH.	PRICE #80	–
R-2	RETURN GRILLE	14" X 14"	SEE PLANS	16	0.066	826	OBD	BY ARCH.	PRICE #80	–
R-3	RETURN GRILLE	24" X 24"	SEE PLANS	21	0.066	2527	–	BY ARCH.	PRICE #80	–
R-4	EXHAUST GRILLE	6" X 6"	SEE PLANS	22	0.132	180	OBD	BY ARCH.	PRICE #80	–
R-5	EXHAUST GRILLE	12" X 8"	SEE PLANS	23	0.069	300	OBD	BY ARCH.	PRICE #530	–
R-6	EXHAUST GRILLE	8" X 6"	SEE PLANS	20	0.069	130	OBD	BY ARCH.	PRICE #530	–
R-7	DOOR TRANS. GRILLE	22" X 20"	SEE PLANS	18	0.039	600	–	BY ARCH.	PRICE # ATGH	½" BORDER ON BOTH SIDES
R-8	RETURN GRILLE	48" X 20"	SEE PLANS	24	0.038	3125	–	BY ARCH.	PRICE #90	HEAVY DUTY GYM GRILLE 3 REQ'D IN DRILL HALL
–	–	–	SEE PLANS	–	–	–	–	–	–	–

* PERFORMANCE DATA FOR AIR DEVICES IS REQUIRED AS PART OF AIIR DEVICE SUBMITTAL

INTAKE HOOD SCHEDULE IH-

PLAN CODE	AREA SERVED	MANUFACTURER & MODEL NO	CFM	SP	HEIGHT (IN)	THROAT WIDTH (IN)	THROAT LENGTH (IN)	THROAT VELOCITY FPM	OPENING SIZE	ACCESSORIES
IH-1	FRESH AIR INTAKE FOR FURNACES	PENN BARRY #WCC24	1480	0.05	18-1/2	25"ø	–	440	(2)	(1)

(1) 12" CURB (2) OPENING SIZED AS REQUIRED BY MANUFACTURER.

GAS FIRED UNIT HEATER SCHEDULE UH-

PLAN CODE	MOUNTING	MANUFACTURER & MODEL NO	HEATING CAP. MBH (INPUT) @ SEA LEVEL	HEATING CAP. MBH (OUTPUT) @ ALT.	EFFICIENCY (%)	FLUE SIZE (in.)	FLUE TYPE	UNIT WEIGHT (lbs)	MOTOR HP	MOTOR VOLTAGE & PHASE	COMMENTS
UH-1 THRU UH-5	VERTICAL	TRANE #GAND012	125	80	80	4"ø	B	228	1/10	115/1	SEPARATED COMBUSTION W/ ROOF INLET TERMINAL AND ADAPTER PROVIDE 2lb – 4oz REGULATOR – VENT AS REQUIRED PROVIDE 7-DAY PROGRAMABLE THERMOSTAT

ROOFTOP UNIT RTU-

PLAN CODE	MANUFACTURER/MODEL	AREA SERVED	CFM @ ELEV.	ESP (IN. WC @ S.L.)	MIN. OD	S.F. H.P.	COOLING TOTAL MBH	COOLING SENS. MBH	COOLING EAT °F	COOLING AMB °F	HEATING INPUT MBH	HEATING OUTPUT MBH	HEATING STAGES	COMPRESSORS NO.	COMPRESSORS FLA	COMPRESSORS LRA	CONDENSER FAN MOTOR NO.	CONDENSER FAN MOTOR HP	POWER SUPPLY VOLTAGE/PHASE	POWER SUPPLY MCA AMPS	WEIGHT (LBS.)	SIZE L	SIZE W	SIZE H	COMMENTS
RTU-1	TRANE # YCD330B4	DRILL HALL	8400	1.0	–	7.5	303	185	80	95	476	386	MODULATING	2	47	315	3	1.0	208/3	73.25	5300	208	90	70	(2)(3)(4)(7)(9)(11)(13)(26)(10)(14)(15)(17)(19)(20)(22)(25)(23)

(1) 14" ROOF CURB (2) FACTORY INSTALLED DISCONNECT/STARTER, SINGLE POINT CONNECTION (3) FACTORY INSTALLED GFI OUTLET W/ STEP DOWN TRANSFORMER – UNPOWERED OUTLET (4) 2 – STAGE COOLING (5) 1 – STAGE COOLING
(6) HOT GAS BYPASS (7) CARBON DIOXIDE DETECTOR INSTALLED ON RETURN AIR (8) CENTRIFUGAL MODULATING POWER EXHAUST AND ECONOMIZER (9) RETURN AIR SMOKE DETECTOR (10) 7-DAY PROGRAMMABLE THERMOSTAT
(11) STAINLESS STEEL HEAT EXCHANGER (12) ALUMINIZED STEEL HEAT EXCHANGER (13) 14" SPRING VIBRATION ISOLATION CURB. (14) 0-100% MODULATING (WITH VFD) CENTRIGUGAL POWER EXHAUST ECONOMIZER (15) UNIT MOUNTED ENERGY RECOVERY VENTILATOR -ERAM
(16) DIIRECT DRIVE (17) BELT DRIVE (18) 15 SEER MINIMUM (19) 11 EER MINIMUM (20) R-410A (21) 13 SEER MINIMUM (22) CONDENSER COIL HAIL GUARD (23) DOWN DISCHARGE (24) SIDE DISCHARGE (25) CRANKCASE HEATER (26) LOW AMBIENT CONTROL

ELECTRIC WALL HEATER SCHEDULE

SYMBOL	LOCATION	OUTPUT BTU	NO. REQ'D	MOTOR AMPS	MOTOR VOLTS	MOTOR ø	MOTOR CYCLES	MAKE AND MODEL
EWH-1	SEE PLANS	5000	1	12.5	115	1	60	QMARK # CWH3150*

* PROVIDE WITH BUILT-IN THERMOSTAT

PLUMBING FIXTURE CONNECTION SCHEDULE

PLAN CODE	DESCRIPTION	C.W.	H.W.	WASTE	VENT	TRAP	SPECIFICATIONS
FD-1	FLOOR DRAIN	–	–	2	2	2	FLOOR DRAIN, JR SMITH #2005-U-NB, BRONZE BODY, VANDAL PROOF SCREWS, STAINLESS STEEL STRAINER. PROVIDE WITH PROSET TRAP GAURD.
FS-1	FLOOR SINK	–	–	3	2	3	FLOOR SINK, JR SMITH #3100-PDBP-U-12, CAST IRON WITH ACID RESISTANT COATING, POLISHED ALUMINUM DOME STRAINER, VANDAL PROOF GRATE, 1/2 GRATE. PROVIDE WITH PROSET TRAP GAURD.
SA-A SA-B SA-C	WATER HAMMER ARRESTER	1/2 SEE PLANS	1/2 SEE PLANS	–	–	–	WATER HAMMER ARRESTER, JR SMITH SERIES 5000, PRE-CHARGE AND PERMANENTLY FACTORY SEALED SA-A-ITO 11 FIXTURE UNITS, SA-B-12 TO 32 FIXTURE UNITS SA-C-33 TO 60 FIXTURE UNITS.
L-1	LAVATORY WALL MOUNT	1/2	1/2	1-1/2	1-1/2	1-1/2	KOHLER KINGSTONE K-2005, WALL MOUNT, FIRECLAY. K-7605 ANGLE SUPPLIES AND STOPS. K8998 1/4" CAST BRASS P-TRAP, OVERFLOW, SYMMON #S-6080-G BATTERY OPERATED ELECTRONIC FAUCET. BATTERY TO BE IN FAUCET BODY COMPLETE WITH HOT AND COLD WATER LEVER HANDLE, GRID DRAIN AND AERATOR. FAUCET WITH CHROME GRID AND DRAIN. PROVIDE MC GUIRE INSULATION ON P-TRAP AND SUPPLIES. PROVIDE SYMMON #5-110 THERMOSTATIC MIXING VALVE (SET TO 110°F). COMPLETE WITH CHECKS.
SS-1	SERVICE SINK	1/2	1/2	3	2	3	KOHLER #K-6710, 28" X 28" ENAMALED CAST IRON FLOOR MOUNTED CORNER MODEL, K-9146-3, 3" DRAIN WITH STRAINER AND SOCKET, #K-8940 REMOVABLE VINYL COATED GUARD. K-8940 FAUCET WITH VACUUM BREAKER, SCREW DRIVER STOPS IN SHANK, 5' RUBBER HOSE AND WALL HOOK, 3-STATION MOP HOLDER.
U-1	URINAL	3/4	–	2	2	INT.	URINAL, KOHLER K-4972-ET, "STANWELL", ADA COMPLIANT, VITEROUS CHINA, 1-1/4" TOP SPUD, 1.0 GPF, WALL MOUNTED WITH CARRIER, SLOAN #8180 G2 OPTIMA PLUS FLUSH VALVE. FLUSH VALVE TO HAVE MANUAL OVERRIDE.
WC-1	FLOOR MOUNTED WATER CLOSET	1	–	4	2	INT.	KOHLER #K-4405, VITREOUS CHINA WATER CLOSET WITH ELONGATED BOWL, 1½" TOP SPUD, FLOOR MOUNTED, WHITE WITH #K-4670-CA ELONGATED OPEN FRONT SEAT WITH ANTI-MICROBIAL AGENT, DUAL FLUSH, BATTERY OPERATED ELECTRONIC FLUSH VALVE, SLOAN #8111-1.6/1.1, 1.6gpf FULL FLUSH AND 1.1gpm- REDUCED FLUSH.
WC-2	FLOOR MOUNTED ADA WATER CLOSET	1	–	4	2	INT.	KOHLER ANGLESEY #K-4386, VITREOUS CHINA WATER CLOSET WITH ELONGATED BOWL, FLOOR MOUNTED, WHITE WITH #K-4670-CA ELONGATED OPEN FRONT SEAT WITH ANTI-MICROBIAL AGENT, DUAL FLUSH, BATTERY OPERATED ELECTRONIC FLUSH VALVE, SLOAN #8111-1.6/1.1, 1.6gpf FULL FLUSH AND 1.1gpm- REDUCED FLUSH.
SH-1	ADA SHOWER	1/2	1/2	2	2	2	SYMMONS #BP-56-500-B30-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH, DIVERTING VALVE, IN-LINE VACUUM BREAKER, HAND SHOWER AND 5' FLEXIBLE METAL HOSE, 30" SLIDER BAR. PROVIDE WITH FD-1
SH-2	SHOWER	1/2	1/2	2	2	2	SYMMONS #BP-56-I-X-LR-V-141, COMPLETE W/SELF CLEANING FULL DRENCH SHOWER HEAD, 2.5 GPM, PRESSURE BALANCING MIXING VALVE, STOPS, LOOP HANDLE, POLISH CHROME FINISH. PROVIDE WITH FD-1
DF-1	ADA DRINKING FOUNTAIN	1/2	–	1-1/2	1-1/2	1-1/2	HAWS #HWBFA8L, HI-LO BARRIER FREE. 7.7 GPH, 115 VOLT, R134A REFRIGERANT, CHROME PLATED BRASS BUBBLE HEAD, SELF-LUBRICATING FAN MOTOR. PUSH DOWN BARS TO ACTIVATE WATER DELIVERY, ADA COMPLIANT. BRUSHED STERLING VINYL FINISH. WATER TEMPERATURE 50°F.

DESCRIPTION OF MECHANICAL ALTERNATES:

ALTERNATE 3:

DELETE THE ENERGY RECOVERY VENTOLATER FROM RTU-1 AND PROVIDE A CENTRIFUGAL MODULATING POWER EXHAUST AND ECONOMIZER FOR RTU-1.

ALTERNATE 4:

DELETE RTU-1 AND ALL ASSOCIATED DUCTWORK. ADD THE FOUR GAS FIRED UNIT HEATERS IN THE DRILL HALL. UNIT HEATERS IN THE DRILL HALL ARE NOT PART OF THE BASE BID

By: jrmcdonald; Dec 15, 2009 – 1:26pm, X:\Projects\2009\09194.00.01 – UTNG Armory Remodel Filmore\M0.1 – M0.2 – 09194.00.dwg

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BUILDING NAME:
FILLMORE ARMORY
UTAH NATIONAL GUARD

PROJECT TITLE:
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MARK	DATE	DESCRIPTION

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SHEET TITLE
MECHANICAL SCHEDULES

SHEET NUMBER
M-001

FURNACE SCHEDULE

SYMBOL	INPUT MBTU	OUTPUT MBTU (2)	CFM	OA	EXT S.P. (8)	FAN SPEED	FILTER NO.	FILTER SIZE	MOTOR HP	MOTOR Φ	MOTOR VOLT	MOTOR DRIVE	MANUFACTURER AND MODEL NO.	COMMENTS
F-1	97	73	1400	70	0.58	HIGH	1	20"x25"x1"	1/2	1	60	(9)	TRANE #TUH1C100A9481A	(1)(3)(4)(5)(6)(7)(11)(12)
F-2	60	45	700	300	0.69	MED	1	17"x25"x1"	1/3	1	60	(9)	TRANE #TUH1B060A9361A	(1)(3)(4)(5)(6)(7)(10)(11)
F-3	80	60	1190	590	0.62	HIGH	1	17"x25"x1"	1/2	1	60	(9)	TRANE #TUH1B080A9421A	(1)(3)(4)(5)(6)(7)(10)(11)
F-4	97	73	1400	100	0.58	HIGH	1	20"x25"x1"	1/2	1	60	(9)	TRANE #TUH1C100A9481A	(1)(3)(4)(5)(6)(7)(11)(12)
F-5	80	60	1190	460	0.62	HIGH	1	17"x25"x1"	1/2	1	60	(9)	TRANE #TUH1B080A9421A	(1)(3)(4)(5)(6)(7)(11)(12)

(1) AFUE - 95 (2) AT ELEVATION (3) R-410 (4) PROVIDE W/ EVAPORATOR BY SAME MANUFACTURER (5) NATURAL GAS KIT (6) CONCENTRIC VENT KIT
(7) CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER (8) STATIC PRESSURE LOSS IS EXTERNAL TO FURNACE AND DX COIL
(9) DIRECT DRIVE (10) VERTICLE INSTALLATION (11) 7-DAY PROGRAMMABLE THERMOSTAT (12) HORIZONTAL INSTALLATION

CONDENSING UNIT SCHEDULE

CODE	MFR. & MODEL NO.	SEN. MBH	AMB. TEMP.	SEER	SUCTION TEMP.	NOMINAL UNIT SIZE	FLA	MCA	MOP	VOLTAGE/ PHASE	REMARKS
CU-1	TRANE #4TTA3036A3000	27	95	13	45	3.0	12.1	15	–	208 / 3	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)
CU-2	TRANE #4TTA3048A3000	32	95	13	45	4.0	15.9	20	–	208 / 3	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)
CU-3	TRANE #4TTA3048A3000	32	95	13	45	4.0	15.9	20	–	208 / 3	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)
CU-4	TRANE #4TTA3048A3000	32	95	13	45	4.0	15.9	20	–	208 / 3	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)
CU-5	TRANE #4TTA3036A3000	27	95	13	45	3.0	12.1	15	–	208 / 3	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)

(1) PROVIDE WITH FUSED DISCONNECT (2) CONNECT TO EVAPORATOR COIL FURNACE WITH SAME NUMBER (ie. FC-1 CONNECT TO CU-1)
(3) FACTORY INSTALLED ACCUMULATOR (4) ANTI-SHORT CYCLE (5) LOW AMBIENT CONTROL (6) HIGH/LOW PRESSURE SWITCH
(7) CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER (8) INSTALL CONDENSERS ON ROOF ABOVE FURNACE
(9) REFRIGERANT LINE SETS AS RECOMMENDED BY MANUFACTURER
(10) EXTERIOR SUCTION LINE INSULATION TO HAVE MANUFACTURER RECOMMENDED WEATHER / UV PROTECTION

ENERGY RECOVERY VENTILATOR ERV-

PLAN CODE	AREA/UNIT SERVED	SUPPLY CFM	EXHAUST CFM	LATENT EFFECTIVENESS (%)	SENSIBLE EFFECTIVENESS (%)	TOTAL EFFECTIVENESS (%)	SUPPLY AIR CONDITIONS SUMMER DB (°F)	SUMMER WB (°F)	SUMMER ENTAHLPY	SUMMER RH (%)	WINTER DB (°F)	WINTER WB (°F)	WINTER ENTAHLPY	WINTER RH (%)	DESIGN LOADS SUMMER (BTU/HR) OA SENSIBLE	SUMMER OA LATENT	SUMMER OA TOTAL	SUMMER TOTAL RECOVERED	WINTER (BTU/HR) OA SENSIBLE	WINTER OA LATENT	WINTER OA TOTAL	WINTER TOTAL RECOVERED	ELECTRICAL VOLTS/PHASE	FLA	MCA	MANUFACTURER MODEL #	REMARKS
ERV-1	RTU-1	6000	6000	62.7	70.0	69.3	81.0	60.39	29.15	32.5	48.28	38.26	–	–	108,047	12,725	120,772	83,750	415,233	109,848	525,080	343,648	208/3	31.06	38.83	MICROMETL ERV H	(1)(2)(3) (4)(5)(6)

(1) MONO CURB. ERV AND RTU TO BE MOUNTED ON THE SAME CURB. (2) OUTSIDE AIR CFM AND EXHAUST AIR CFM AIRFLOWS ARE MAINTAINED BY ERV (3) BUILDING PRESSURE CFM CONTROL WITH CO2 SENSOR. CFM AIRFLOWS ARE MAINTAINED BY ERV. THE BUILDING PRESSURE SENSOR WILL CONTROL HOW MUCH AIR LEAVES THE BUILDING THUS MAINTAINING BUILDING PRESSURE TO 0.05" OF WATER COLUMN. CO2 SENSOR WILL THE CARBON DIOXIDE TO A PRESET LEVEL. (400ppm) (4) SEPERATE POWER FROM RTU. PROVIDE DISCONNECT (5) INSTALL PER MANUFACTURERS REQUIREMENTS
(6) ALTERNATE #3 DELETE ERV

EXHAUST FAN SCHEDULE EF-

PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV.	ESP	FAN RPM	MOTOR B.H.P.	MOTOR H.P.	MOTOR EFFICIENY %	MOTOR VOLTAGE & PHASE	SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE	OPERATING WT. (LBS.)	MANUFACTURER / MODEL	COMMENTS
EF-1	RESTROOMS	WALL MOUNTED CENTRIFUGAL	730	0.375	1076	0.073	1/6	92	115/1	10.2	BACKDRAFT	(1)	12" SQ	60	COOK # 120ACWB	

(1) 2 MOTION DETECTORS. ONE DETECTOR IN MEN'S RESTROOM AND ONE DETECTOR IN WOMEN'S RESTROOM. FAN SHALL RUN FOR AN EXTRA 20 MINUTES AFTER MOTION IS NO LONGER DETECTED.

MINI-SPLIT SYSTEM AIR CONDITIONER AC-

PLAN CODE	COOLING CAPACITY (BTUH)	HEATING CAPACITY (HEAT PUMP CYCLE) (BTUH)	VOLTAGE & PHASE	F.L.A. (INDOOR UNIT)	F.L.A. (OUTYDOOR UNIT)	MAX FUSE SIZE AMPS	CIRCUIT AMPACITY	CFM (INDOOR)	CFM VENTILATION	CONTROL	SEER	INDOOR UNIT DIMENSIONS (IN.) L.	H.	D.	FAN SPEEDS AUTO	MAN.	MANUFACTURER & MODEL NO.	REMARKS
AC-1	17500	–	240/1	0.3	7.7	20	20	523	–	THERMOSTAT	20	42	12	9	3	–	SANYO #18KL572	(1)(2)(3)(4)(5)(6) (7)(8)(9)(10)

(1) LOW AMBIENT CONTROL (2) 4" CONCRETE PAD (3) THERMOSTAT (4) CONDENSER (5) MANUFACTURER RECOMMENDED REFRIGERANT PIPING (6) WHITE LATEX PAINT ON SUCTION LINE INSULATION
(7) FUSED DISCONNECT (8) CRANKCASE HEATER (9) CONDENSATE PUMP (10) R-410A REFRIGERANT

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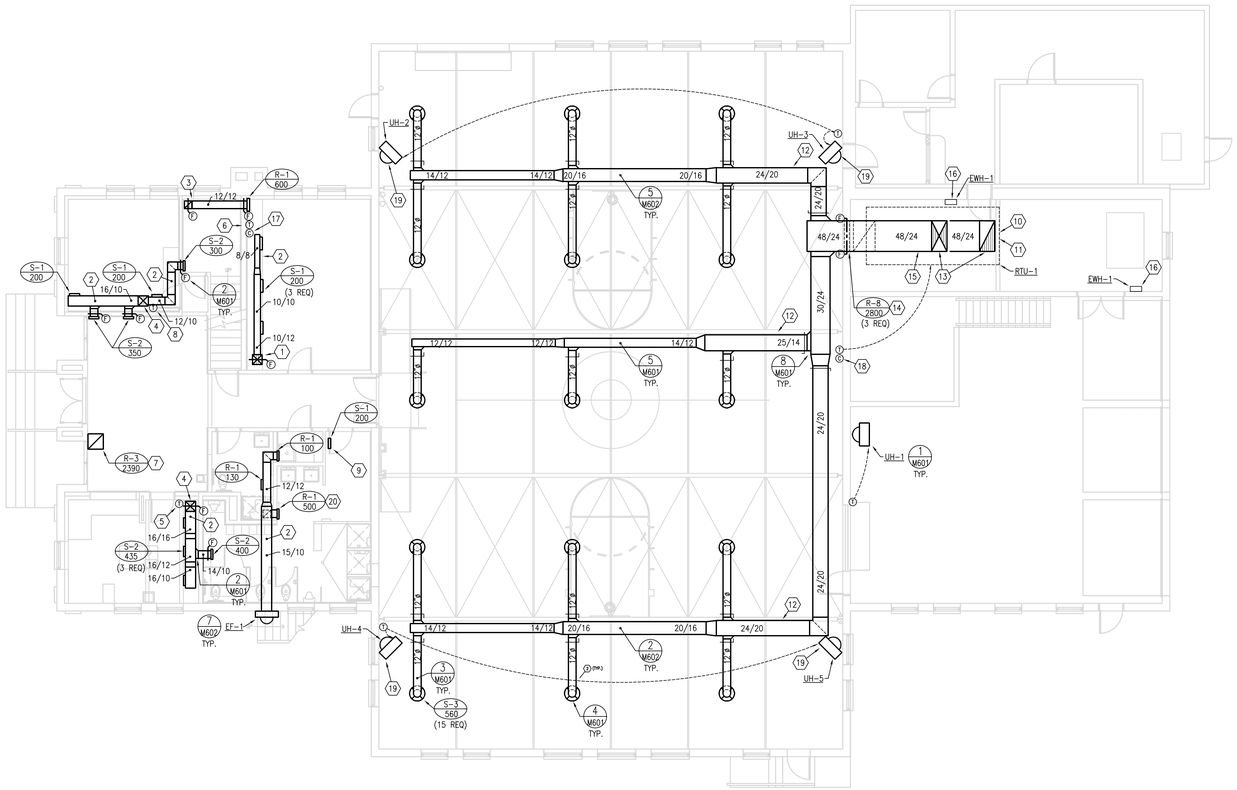
SHEET TITLE

MECHANICAL SCHEDULES

SHEET NUMBER

M-002

By: jmcdonald, Dec 15, 2009 - 1:28pm, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\M0.1 - M0.2 - 09194.00.dwg



1 M-201 **FIRST FLOOR MECHANICAL PLAN**

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

KEYED NOTES:

1. 15" X 10" DUCT TO FLOOR ABOVE.
2. INSTALL DUCT TIGHT TO CEILING / JOIST.
3. 12" X 12" DUCT UP TO FLOOR ABOVE.
4. 16" X 16" DUCT UP TO FLOOR ABOVE.
5. THERMOSTAT TO CONTROL F-4.
6. THERMOSTAT TO CONTROL F-2.
7. 24" X 24" DUCT UP TO FLOOR ABOVE.
8. THERMOSTAT TO CONTROL F-1.
9. SEE ARCHITECTURAL PLANS FOR TRANSFER GRILLE LOCATION.
10. RTU-1 IS LOCATED ON ROOF.
11. SEE DETAIL 1/M602 FOR CURB DETAIL.
12. DUCTWORK TO SLOPE WITH ROOM. TOP OF DUCTWORK TO BE LEVEL WITH CROSS BEAMS.
13. 48" X 24" DUCT UP TO RTU-1.
14. RETURN REQUIRES 3 RETURN GRILLES CREATING A WALL OPENING OF 48" X 60". MOUNT 12" A.F.F.
15. RUN 48" X 24" RETURN DUCT TIGHT TO UNDERSIDE OF SUPPLY DUCT.
16. MOUNT ELECTRIC WALL HEATER 24" A.F.F.
17. CARBON DIOXIDE SENSOR TO CONTROL FURNACE OUTSIDE AIR MOTORIZED DAMPER.
18. CARBON DIOXIDE SENSOR TO CONTROL ROOFTOP OUTSIDE AIR.
19. UNIT HEATER TO BE PROVIDED ONLY IF ALTERNATE #4 IS ACCEPTED.
20. INSTALL EXHAUST GRILLE BELOW BEAM.

GENERAL NOTES:

1. MOUNT THERMOSTATS AND CARBON DIOXIDE DETECTORS AT 48" A.F.F.

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1ST FLOOR MECHANICAL PLAN

SHEET NUMBER

M-201

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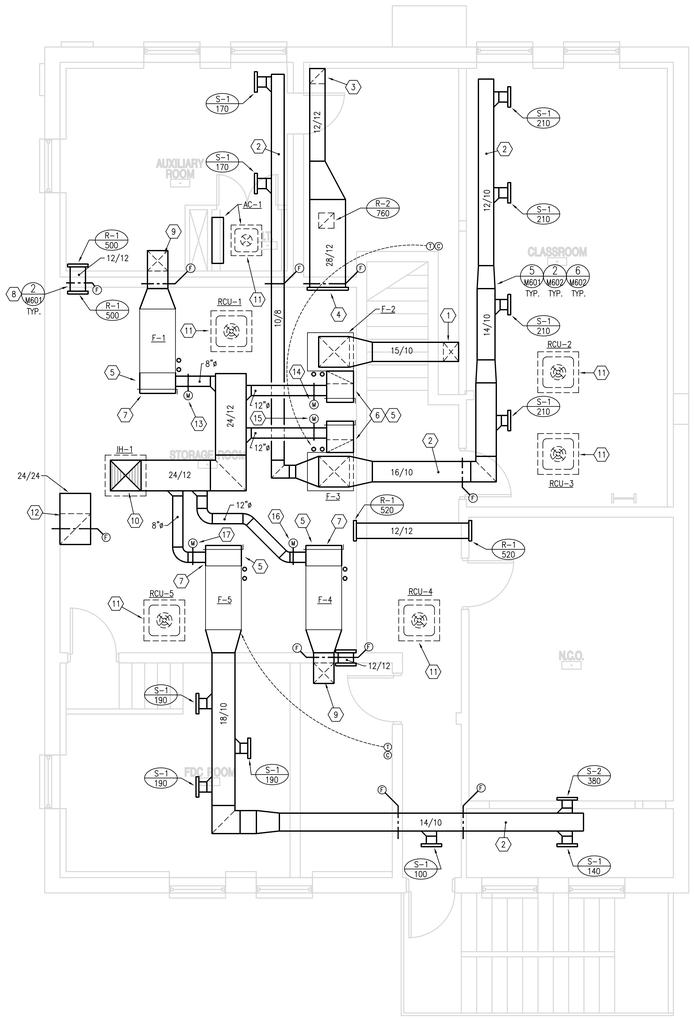

1 SECOND FLOOR MECHANICAL PLAN
M-202
SCALE:1/4" = 1' - 0"

KEYED NOTES:

1. 15" X 10" DUCT DOWN TO CONFERENCE ROOM.
2. INSTALL DUCT TIGHT TO CEILING/JOIST. TYPICAL OF ALL DUCTWORK.
3. 12" X 12" DUCT UP FROM BELOW.
4. 28" X 12" DUCT DISCHARGE INTO MECHANICAL ROOM.
5. EXTEND RETURN DUCT TO ROOM CEILING. PROVIDE OPENING IN SIDE OF DUCT TO DRAW RETURN AIR FROM ROOM. RETURN DUCT TO BE LINED.
6. 10" X 24" OPENING ON SIDE OF RETURN DUCT NEAR ROOM CEILING.
7. 14" X 24" OPENING ON SIDE OF RETURN DUCT NEAR ROOM CEILING.
8. 12" X 12" DUCT DISCHARGE INTO MECHANICAL ROOM.
9. 16" X 16" DUCT DOWN TO FLOOR BELOW.
10. 24" X 24" DUCT UP TO INTAKE HOOD LOCATED ON ROOF.
11. DO NOT INSTALL MOUNT CONDENSER CLOSER THEN 10'-0" TO ROOF EDGE.
12. 24" X 24" RETURN DUCT UP FROM FLOOR BELOW. RAISE DUCTWORK UP TO ROOM CEILING. 24" X 24" OPENING IN DUCTWORK TO FEED INTO ROOM.
13. INTERLOCK MOTORIZED DAMPER WITH FURNACE. MOTORIZED DAMPER SET TO 70 CFM.
14. CARBON DIOXIDE SENSOR TO CONTROL OUTSIDE AIR MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH FURNACE. MOTORIZED DAMPER SET TO 300 CFM MAXIMUM.
15. CARBON DIOXIDE SENSOR TO CONTROL OUTSIDE AIR MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH FURNACE. MOTORIZED DAMPER SET TO 590 CFM MAXIMUM.
16. INTERLOCK MOTORIZED DAMPER WITH FURNACE. MOTORIZED DAMPER SET TO 100 CFM.
17. CARBON DIOXIDE SENSOR TO CONTROL OUTSIDE AIR MOTORIZED DAMPER. INTERLOCK MOTORIZED DAMPER WITH FURNACE. MOTORIZED DAMPER SET TO 460 CFM MAXIMUM.

GENERAL NOTES:

1. MOUNT THERMOSTATS AND CARBON DIOXIDE DETECTOR AT 48" A.F.F.

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SHEET TITLE

2ND FLOOR MECHANICAL PLAN

SHEET NUMBER

M-202

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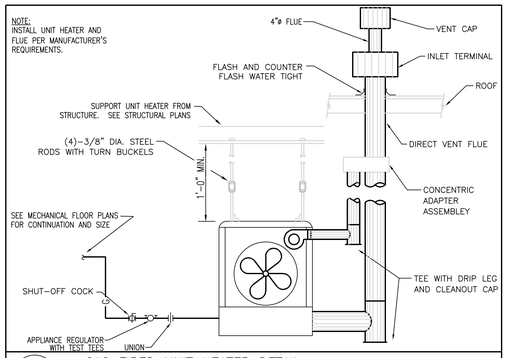
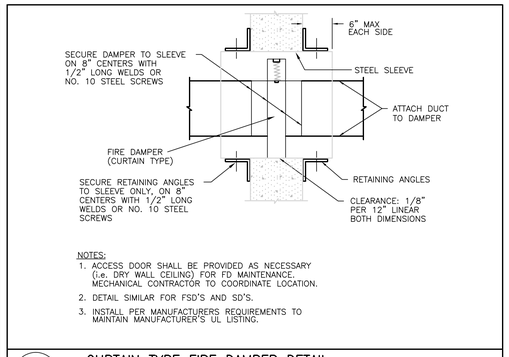


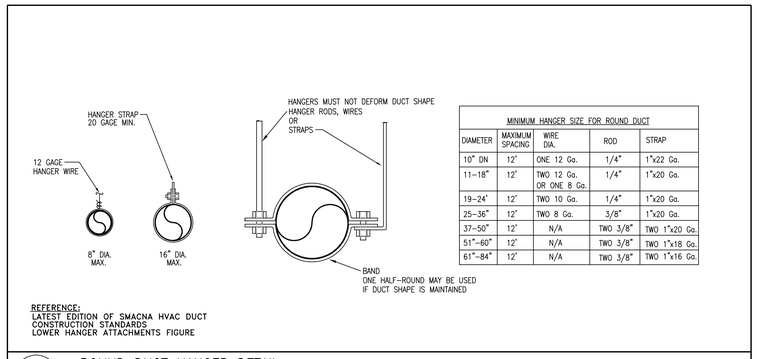
1 M601 GAS FIRED UNIT HEATER DETAIL

NO SCALE



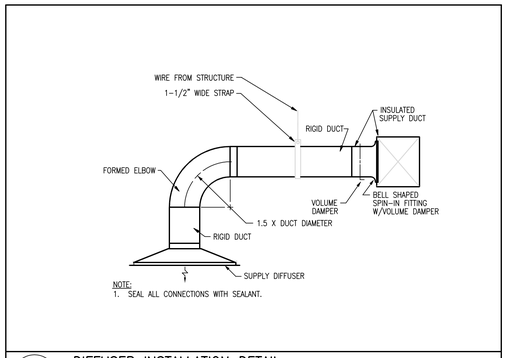
2 M601 CURTAIN TYPE FIRE DAMPER DETAIL

NO SCALE



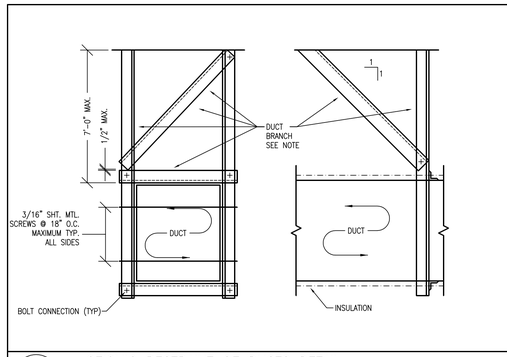
MINIMUM HANGER SIZE FOR ROUND DUCT				
DIAMETER	MAXIMUM SPACING	WIRE DIA.	ROD	STRAP
10" DN	12'	ONE 12 Ga.	1/4"	1"x22 Ga.
11-18"	12'	TWO 12 Ga. OR ONE 8 Ga.	1/4"	1"x20 Ga.
19-24'	12'	TWO 10 Ga.	1/4"	1"x20 Ga.
25-36"	12'	TWO 8 Ga.	3/8"	1"x20 Ga.
37-50"	12'	N/A	TWO 3/8"	TWO 1"x20 Ga.
51"-60"	12'	N/A	TWO 3/8"	TWO 1"x18 Ga.
61"-84"	12'	N/A	TWO 3/8"	TWO 1"x16 Ga.

3 M601 ROUND DUCT HANGER DETAIL



4 M601 DIFFUSER INSTALLATION DETAIL

NO SCALE



5 M601 SEISMIC RESTRAINT OF DUCTS DETAIL

NO SCALE

SCHEDULE "A" BRACING OF RECTANGULAR DUCTS

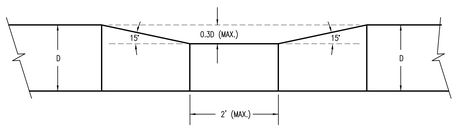
DUCT SIZE INCHES	VERTICAL ANGLES	DIAGONAL ANGLES	HORIZONTAL ANGLES	LONGITUDINAL ANGLES	BOLT SIZE **	WT. PER LINEAR FOOT
30" SQ.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2" X 2" X 16 GA.	3" X 3" X GA.	1/4"ø	13
42" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"ø	20
54" SQ.	4" X 4" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	2-1/2" X 2-1/2" X 16 GA.	D.O.	3/8"ø	27
60" SQ.	4" X 4" X 12 GA.	3" X 3" X 16 GA.	3" X 3" X 16 GA.	D.O.	3/8"ø	36
84" SQ.	4" X 4" X 1/4"	4" X 4" X 14 GA.	4" X 4" X 14 GA.	D.O.	3/8"ø	53
96" SQ.	5" X 3" X 1/4"	4" X 4" X 12 GA.	4" X 4" X 12 GA.	D.O.	1/2"ø	30

* MAXIMUM DIMENSION OF DUCT SHALL GOVERN WHAT BRACING REQUIRED.
EX: A 42" X 32" DUCT SHALL BE BRACED AS A 42" SQ. DUCT.

** MINIMUM EDGE DISTANCE FOR BOLTS:
1/4"ø - 1" 5/8"ø - 1-1/8"
3/8"ø - 1" 3/4"ø - 1-1/4"
1/2"ø - 1" 7/8"ø - 1-1/2"

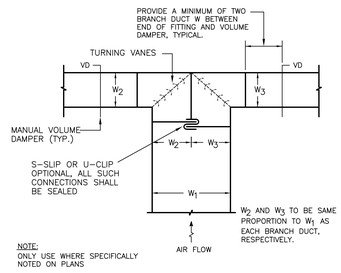
DUCT BRACING NOTES:

1. DESIGN RESTRAINTS PER SEISMIC ZONE 3.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL.
3. FOR DUCTWORK REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   a. TRANSVERSE BRACE AT EACH DUCT CHANGE OF DIRECTION, END OF DUCT RUN, AND AT 30'-0" O.C. FOR STRAIGHT RUNS.
   b. LONGITUDINAL BRACE AT 60'-0" O.C.
   c. TRANSVERSE BRACING OF ONE DUCT SECTION MAY ACT AS A LONGITUDAL BRACE FOR A DUCT SECTION CONNECTED PERPENDICULAR TO IT, PROVIDING THE BRACE IS INSTALLED WITHIN FOUR FEET OF THE INTERSECTION AND IS SIZED FOR THE LARGEST DUCT.
   d. WALLS WHICH HAVE DUCTS PASSING THROUGH THEM MAY SUBSTITUTE FOR A TRANSVERSE BRACE.
   e. DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   f. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.



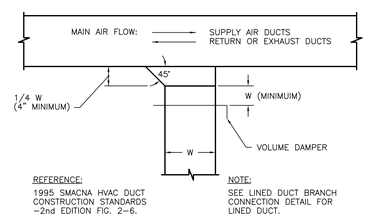
6 M601 TYPICAL DUCT SLICE DETAIL

NO SCALE



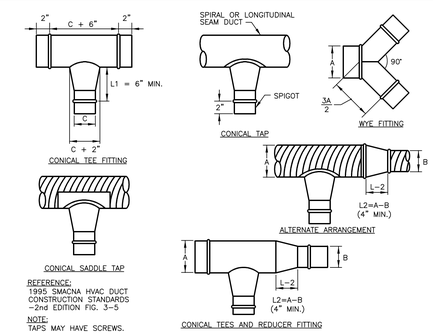
7 M601 DUCTWORK CONVERGING/DIVERGING

NO SCALE



8 M601 BRANCH DUCT TAKEOFF

NO SCALE



9 M601 CONICAL TEES DETAIL

NO SCALE

By: jmcdonald, Dec 15, 2009 - 1:25pm, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\M6.1-09194.00.dwg

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

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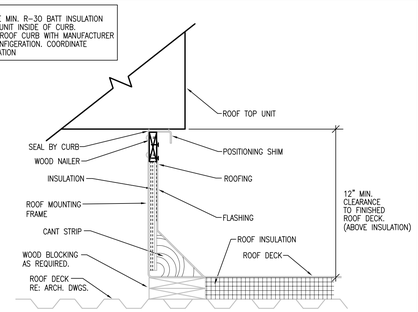
SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER

M-601

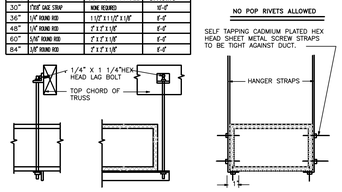
NOTES:
1 – PROVIDE MIN. R-30 BATT INSULATION BELOW UNIT INSIDE OF CURB.
2 – VERIFY ROOF CURB WITH MANUFACTURER FOR CONFIGERATION. COORDINATE INSTALLATION



1 M602 ROOF CURB DETAIL
NO SCALE

HANGER SIZES FOR RECTANGULAR DUCT

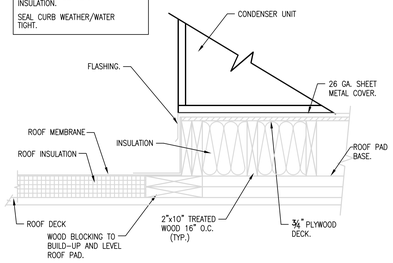
MAX. SIDE	HANGER	HORIZANTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1"x16" GAGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1 1/2" X 1 1/2" X 1/8"	8'-0"
48"	1/4" ROUND ROD	2" X 2" X 1/8"	6'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	6'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	6'-0"



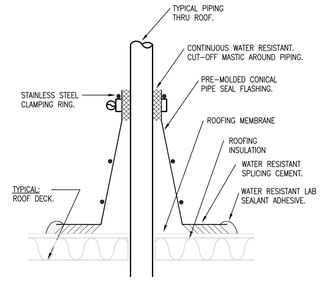
2 M602 DUCT STRAP HANGER DETAIL
NO SCALE

NOTE:
FILL ROOF PAD WITH MIN. 10" THICK FIBERGLASS INSULATION.

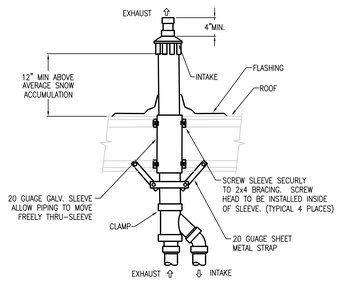
SEAL CURB WEATHER/WATER TIGHT.



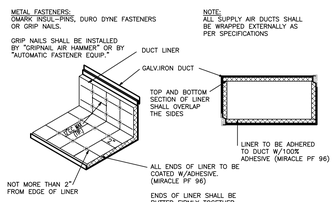
3 M602 ROOF PAD DETAIL
NO SCALE



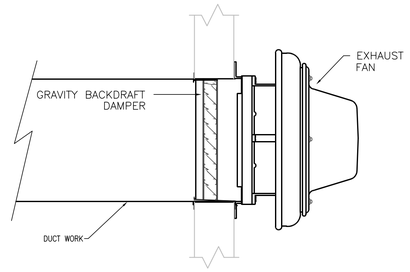
4 M602 PIPE THRU ROOF DETAIL
NO SCALE



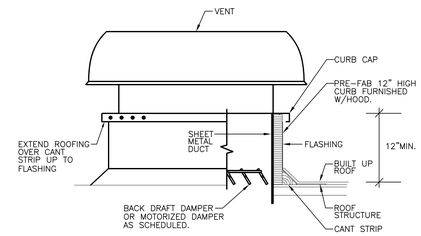
5 M602 CONCENTRIC ROOF TERMINATION DETAIL
NO SCALE



6 M602 DUCT LINER DETAIL
NO SCALE

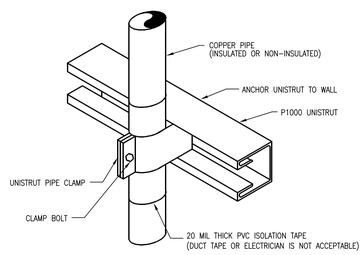


7 M602 WALL MOUNTED EXHAUST FAN DETAIL
NO SCALE

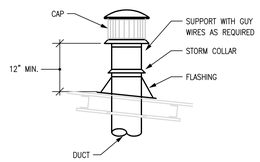


NOTE:
INSTALL FLUE HEIGHT AS REQUIRED BY CODE.

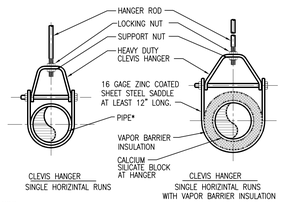
8 M602 INTAKE/RELIEF HOOD DETAIL
NO SCALE



9 M602 PIPE SUPPORT DETAIL
NO SCALE

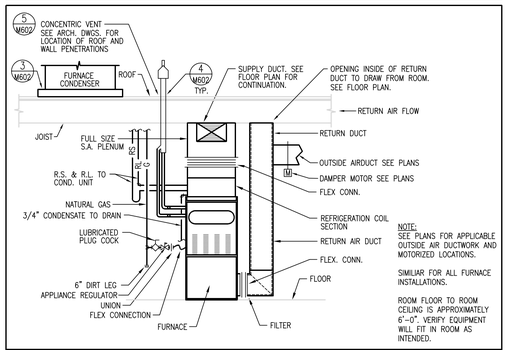


10 M602 INTAKE VENT PIPE DETAIL
NO SCALE



* NOTE:
INSTALL 20 MIL THICK PVC ISOLATION TAPE BETWEEN PIPE AND HANGER FOR DISSIMILAR MATERIAL. WRAP TAPE ARROUND PIPE (DUCT TAPE OR ELECTRICIAN TAPE IS NOT ACCEPTABLE)

11 M602 PIPE HANGERS DETAIL
NO SCALE



NOTE:
SEE PLANS FOR APPLICABLE OUTSIDE AIR DUCTWORK AND MOTORIZED LOCATIONS.

SIMILIAR FOR ALL FURNACE INSTALLATIONS.

ROOM FLOOR TO ROOM CEILING IS APPROXIMATELY 6'-0". VERIFY EQUIPMENT WILL FIT IN ROOM AS INTENDED.

12 M602 FURNACE DETAIL
NOT TO SCALE

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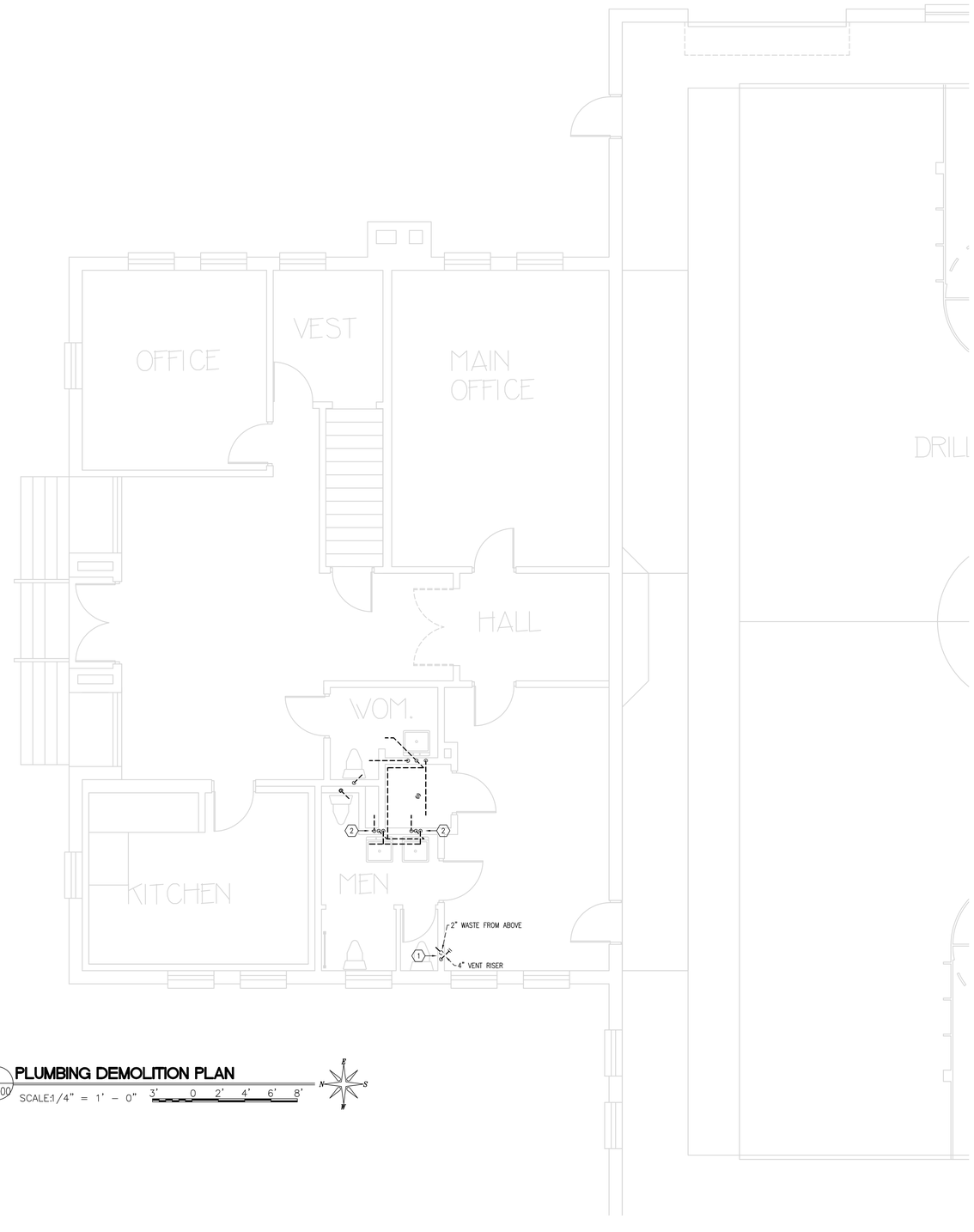

1 / P-200 **PLUMBING DEMOLITION PLAN**

SCALE:1/4" = 1' - 0" 3' 0 2' 4' 6' 8'

KEYED NOTES:

1. RELOCATE 2" WASTE AND 4" VENT TO LOCATION SHOWN ON SHEET P201.
2. CAP UNUSED EXISTING WASTE PIPING FOR LAVATORIES BELOW FINISHED FLOOR SURFACE.

GENERAL NOTES:

1. DEMO ALL EXISTING FIXTURES AND REPLACE WITH NEW ONES. SEE SHEET P201.
2. CAP ANY UNUSED EXISTING PIPING.

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1ST FLOOR PLUMBING DEMO PLAN

SHEET NUMBER

P-200

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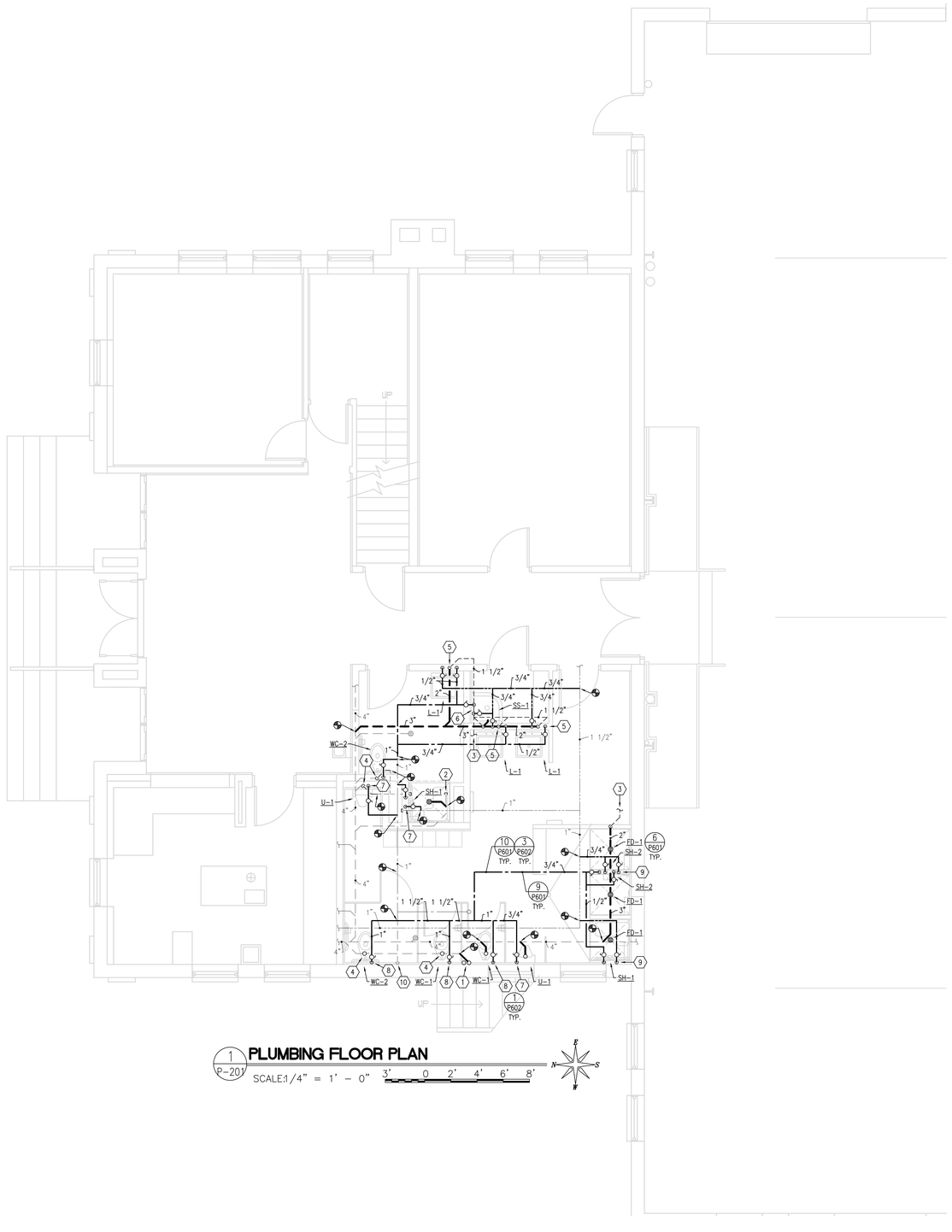

1 P-201 **PLUMBING FLOOR PLAN**

SCALE:1/4" = 1' - 0"

KEYED NOTES:

1. RELOCATE WASTE AND VENT RISERS TO THIS LOCATION.
2. CAP EXISTING PIPING AT OR NEAR THIS LOCATION.
3. TIE VENT PIPING INTO NEAREST EXISTING VENT PIPING OF EQUAL OR LARGER DIAMETER AT OR NEAR THIS LOCATION.
4. TIE INTO EXISTING WASTE PIPE AT THESE LOCATIONS.
5. DROP 1/2" HOT AND COLD WATER DOWN WALL AND PROVIDE / INSTALL ALL FINAL CONNECTIONS TO SINK / LAV.
6. DROP 3/4" HOT AND COLD WATER DOWN WALL AND PROVIDE / INSTALL ALL FINAL CONNECTIONS TO SERVICE SINK.
7. DROP 3/4" COLD WATER DOWN WALL AND PROVIDE / INSTALL ALL FINAL CONNECTIONS TO URINAL.
8. DROP 1" COLD WATER DOWN WALL AND PROVIDE / INSTALL ALL FINAL CONNECTIONS TO WATER CLOSET.
9. DROP 1/2" HOT AND COLD WATER DOWN WALL AND PROVIDE / INSTALL ALL FINAL CONNECTIONS TO SHOWER.
10. VERIFY COLD WATER PIPE AT THIS LOCATION DROPS DOWN INTO TUNNEL. TIE NEW COLD WATER PIPING INTO EXISTING SUPPLY.

GENERAL NOTES:

1. FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS. ALL TIE-INS SHALL BE TO EQUIVALENT OR LARGER SIZES THAN THOSE SHOWN.

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PROJECT TITLE:

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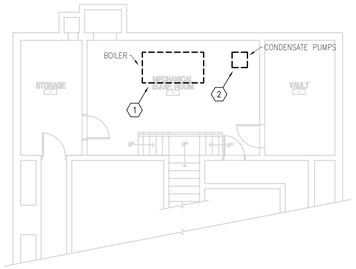
1ST FLOOR PLUMBING PLAN

SHEET NUMBER

P-201

By: jmcdonald, Dec 15, 2009 - 1:22pm, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\P2.1 - 09194.00.dwg



2 P201d BASEMENT PLUMBING DEMO PLAN

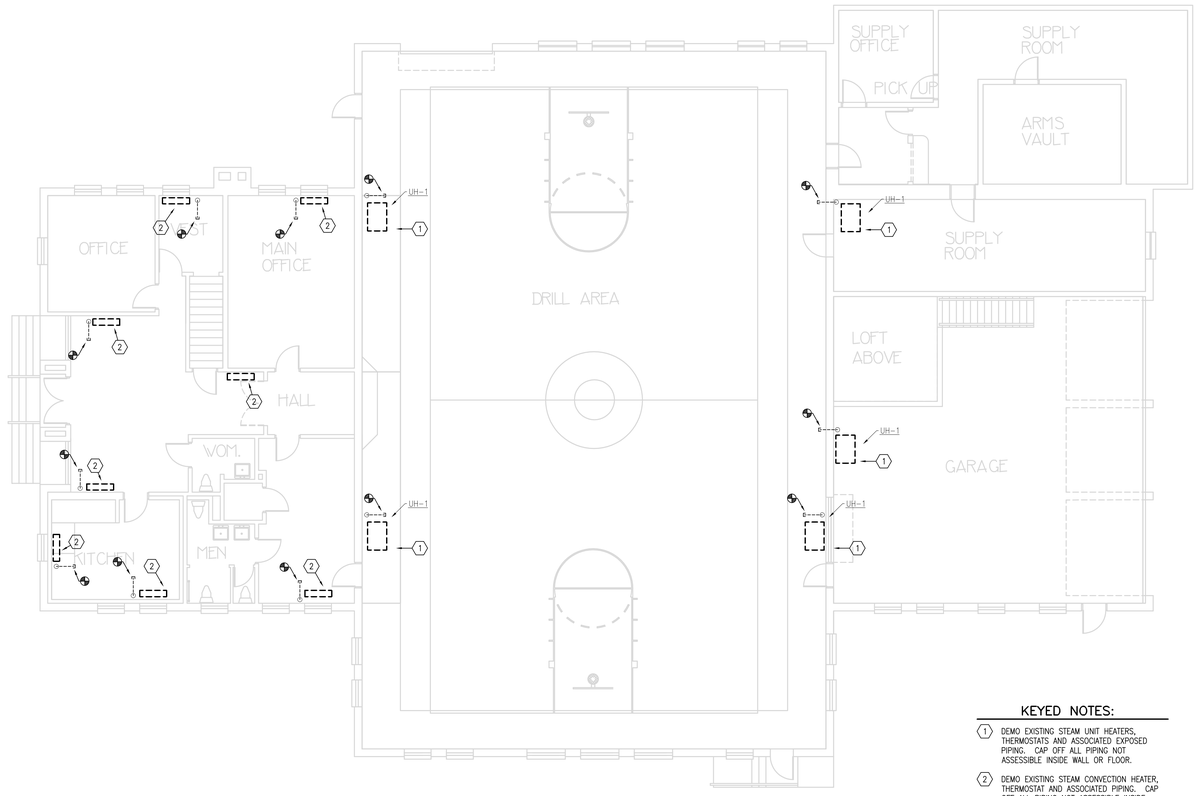
SCALE:1/8" = 1' – 0" 6' 0 4' 8' 12' 16'

KEYED NOTES:

1. DEMO EXISTING BOILER. CAP OFF MAKE-UP WATER LINE AND GAS LINE FEEDING BOILER.
2. DEMO EXISTING CONDENSATE PUMPS.

GENERAL NOTES:

1. REMOVE ALL EXPOSED STEAM LINES LOCATED IN MECHANICAL VAULT AND STORAGE ROOMS LOCATED IN BASEMENT.
2. CAP OFF STEAM LINES NOT REMOVED.
3. FIELD LOCATE BOILER, CONDENSATE PUMPS, AND STEAM LINES IN BASEMENT.



1 P201d FIRST FLOOR PLUMBING DEMO PLAN

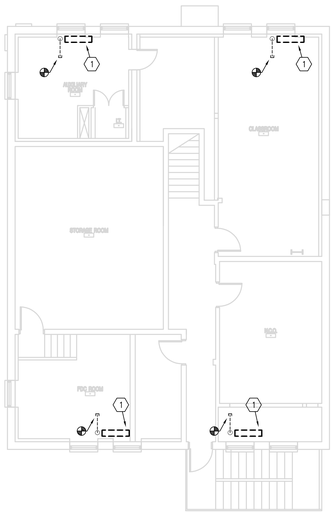
SCALE:1/8" = 1' – 0" 6' 0 4' 8' 12' 16'

KEYED NOTES:

1. DEMO EXISTING STEAM UNIT HEATERS, THERMOSTATS AND ASSOCIATED EXPOSED PIPING. CAP OFF ALL PIPING NOT ASSESSIBLE INSIDE WALL OR FLOOR.
2. DEMO EXISTING STEAM CONVECTION HEATER, THERMOSTAT AND ASSOCIATED PIPING. CAP OFF ALL PIPING NOT ASSESSIBLE INSIDE WALL OR FLOOR.

GENERAL NOTES:

1. FIELD LOCATE EXISTING STEAM UNIT HEATERS, STEAM CONVECTION HEATERS AND ALL EXPOSED STEAM PIPE LOCATED ON GROUND FLOOR.



3 P201d SECOND FLOOR PLUMBING DEMO PLAN

SCALE:1/8" = 1' – 0" 6' 0 4' 8' 12' 16'

KEYED NOTES:

1. DEMO EXISTING STEAM CONVECTION HEATERS AND THERMOSTAT(S). CAP OFF PIPING FEEDING HEATERS BELOW FLOOR.

GENERAL NOTES:

1. FIELD LOCATE EXISTING STEAM CONVECTION HEATERS AND ASSOCIATED THERMOSTAT ON THE SECOND FLOOR.

By: jmcdonald, Dec 15, 2009 - 1:21pm, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel FillmoreA\P2.1d - 09194.00.dwg

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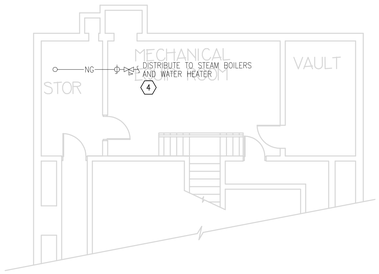
1ST FLOOR DEMOLITION PLAN

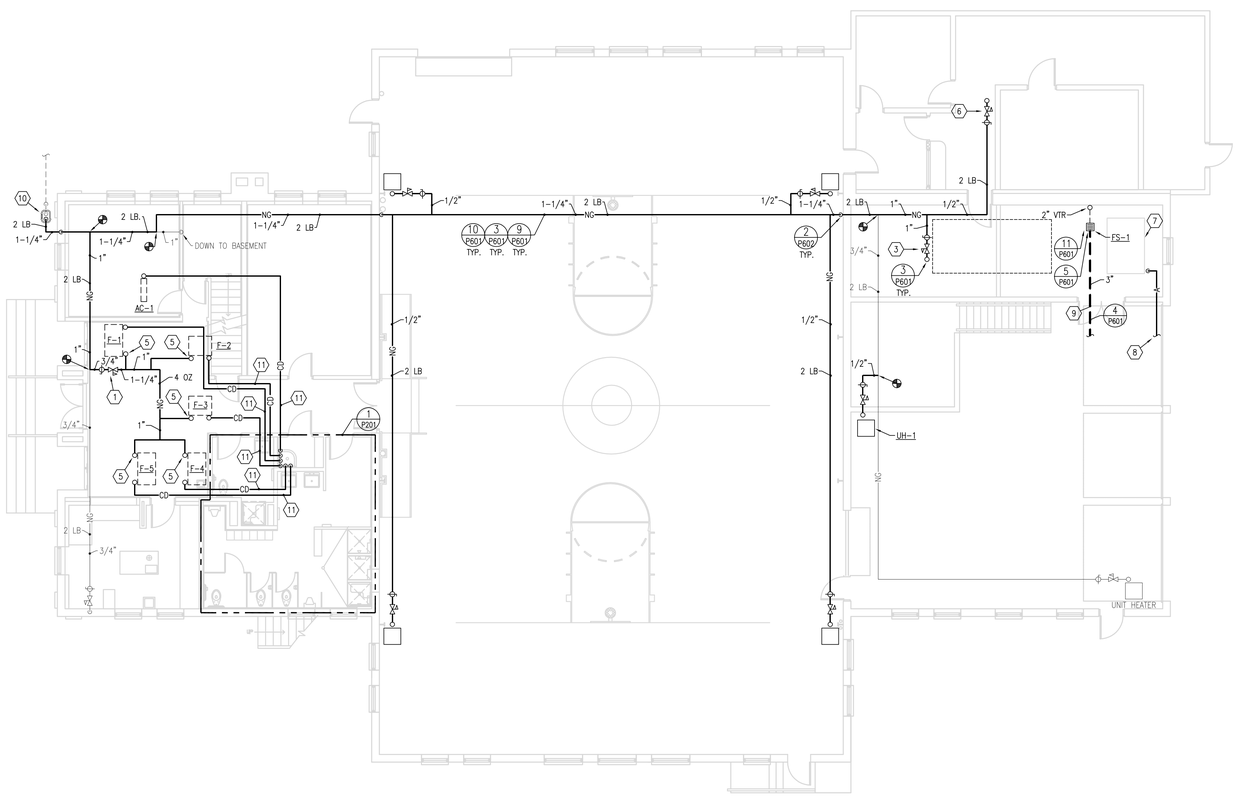
SHEET NUMBER

P-201d



2 P-202 BASEMENT PLUMBING FLOOR PLAN

SCALE: 1/8" = 1' – 0" 3' 0 2' 4' 6' 8'



1 P-202 OVERALL PLUMBING FLOOR PLAN

SCALE: 1/8" = 1' – 0" 3' 0 2' 4' 6' 8'

KEYED NOTES:

1. PROVIDE / INSTALL 2 LB – 4 OZ REGULATOR, GAS COCK, DIRT LEG, AND ROUTE GAS PIPING UP THROUGH CEILING / FLOOR TO FURNACES LOCATED IN ROOM ABOVE. PROVIDE / INSTALL ALL FINAL CONNECTIONS TO FURNACE.
2. PROVIDE / INSTALL 2 LB – 4 OZ REGULATOR, GAS COCK, DIRT LEG, AND ALL FINAL CONNECTIONS TO FURNACE.
3. PROVIDE / INSTALL 2 LB – 4 OZ REGULATOR, GAS COCK, DIRT LEG, AND ROUTE GAS PIPING UP THROUGH ROOF TO ROOFTOP UNIT. PROVIDE / INSTALL ALL FINAL CONNECTIONS TO RTU.
4. CAP NATURAL GAS PIPING SERVING DEMOLISHED STEAM BOILER.
5. 3/4" 4 OZ. GAS PIPING TO FURNACE LOCATED IN ROOM ABOVE.
6. PROVIDE / INSTALL 2 LB – 4 OZ REGULATOR, GAS COCK, DIRT LEG AND ROUT PIPING UP THROUGH ROOF TO EXISTING RTU. PROVIDE / INSTALL ALL FINAL CONNECTIONS TO RTU.
7. RELOCATE EXISTING AIR COMPRESSOR INTO NEW ROOM.
8. EXTEND EXISTING COMPRESSED AIR PIPING TO NEW LOCATION OF AIR COMPRESSOR. FIELD LOCATE COMPRESSED AIR PIPING AND SIZE.
9. CONNECT SANITARY SEWER TO EXISTING SEWER PIPE IN GARAGE. FIELD LOCATE EXISTING SEWER LINE REMOVE CONCRETE TO INSTALL SEWER LINE. REPLACE CONCRETE AFTER SEWER LINE IS INSTALLED.
10. FIELD VERIFY THAT EXISTING GAS METER IS SIZED FOR 1800 CFH. REPLACE EXISTING GAS METER IF REQUIRED TO MEET NEW DEMAND.
11. 3/4" CONDENSATE DRAIN FROM UNIT ON FLOOR ABOVE TO SERVICE SINK.

GENERAL NOTES:

1. FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS. ALL TIE-INS SHALL BE TO EQUIVALENT OR LARGER SIZES THAN THOSE SHOWN.
2. CAP ALL UNUSED EXISTING NATURAL GAS PIPING ABOVE CEILING.

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
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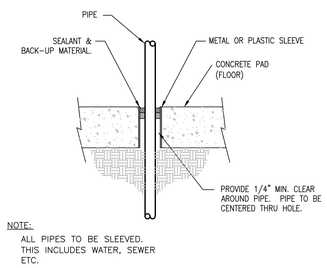
SHEET TITLE

1ST FLOOR OVERALL PLUMBING PLAN

SHEET NUMBER

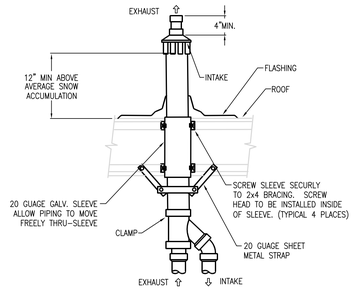
P-202

By: jmcdonald, Dec 15, 2009 - 1:20pm, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\P2.2 - 09194.00.dwg



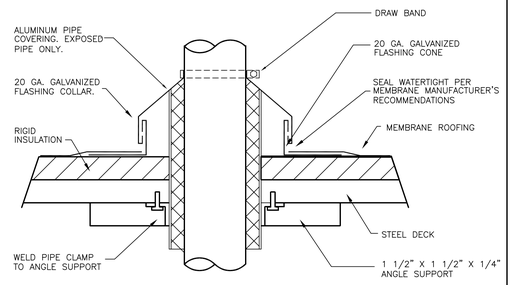
1 P-601 PIPING THRU ON GRADE FLOOR

NO SCALE



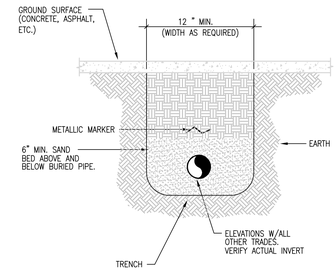
2 P-601 CONCENTRIC ROOF TERMINATION DETAIL

NO SCALE



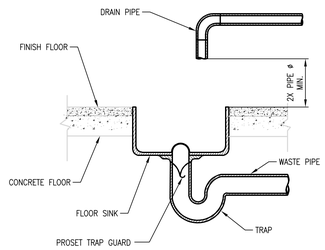
3 P-601 PIPE PENETRATION THRU ROOF DETAIL

NO SCALE



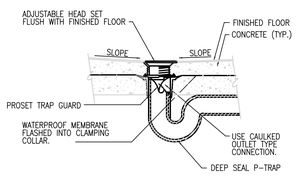
4 P-601 BURIED PIPE DETAIL

NO SCALE



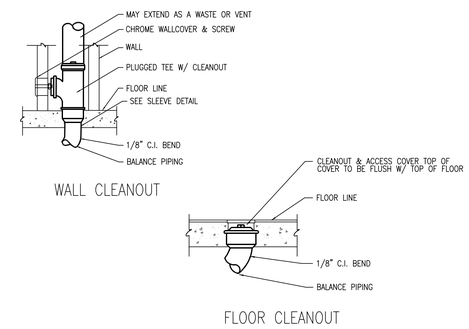
5 P-601 INDIRECT WASTE DETAIL

NO SCALE



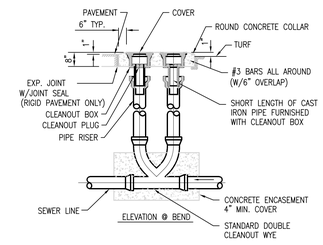
6 P-601 FLOOR DRAIN W/TRAP GUARD DETAIL

NO SCALE



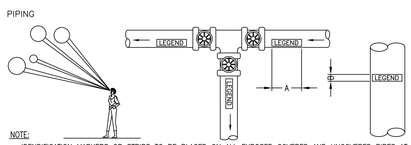
7 P-601 CLEANOUT DETAIL

NOT TO SCALE



8 P-601 2-WAY DOUBLE CLEANOUT DETAIL

NO SCALE



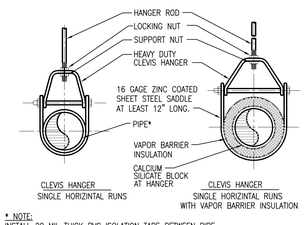
NOTE:
IDENDIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS AND AT ALL VALVES, BRANCHES, CHANGE IN DIRECTION OF FLOW AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME, ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATION DIRECTION OF FLOW.

OUTSIDE DIAMETER OF PIPE OR COVERING		LENGTH OF COLOR FIELD A		SIZE OF LETTERS B	
INCHES	MM	INCHES	MM	INCHES	MM
3/4" TO 1-1/4"	19 TO 32	8"	200	1/2"	13
1-1/2" TO 2"	38 TO 51	8"	200	3/4"	19
2-1/2" TO 6"	64 TO 150	12"	300	1-1/4"	32
8" TO 10"	200 TO 250	24"	600	2-1/2"	64
OVER 10"	OVER 250	32"	800	3-1/2"	89

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RETURN	YELLOW	BLACK ON YELLOW
FIRE PROTECTION (SPRINKLER)	RED	WHITE ON RED
NATURAL GAS	YELLOW	BLACK ON YELLOW
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

9 P-601 PIPE IDENTIFICATION DETAIL

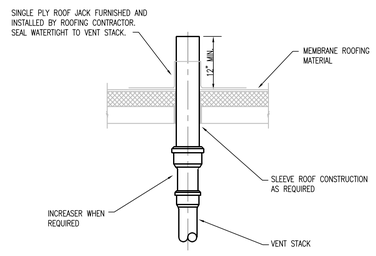
NO SCALE



* NOTE:
INSTALL 20 MIL THICK PVC ISOLATION TAPE BETWEEN PIPE AND HANGER FOR DISSIMILAR MATERIAL. WRAP TAPE AROUND PIPE (DUCT TAPE OR ELECTRICIAN TAPE IS NOT ACCEPTABLE)

10 P-601 PIPE HANGERS DETAIL

NO SCALE



11 P-601 VENT THROUGH ROOF DETAIL

NO SCALE

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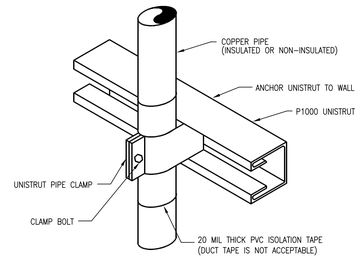
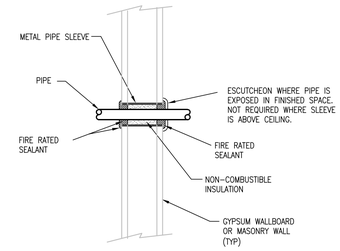


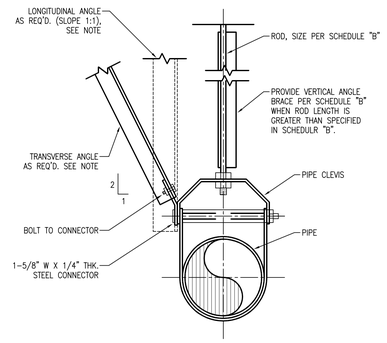
1 / P-602 PIPE SUPPORT DETAIL

NO SCALE



2 / P-602 PIPING THRU FIRE-RATED WALL

NO SCALE



SCHEDULE "B" TRANSVERSE BRACING FOR PIPE

PIPE SIZE INCHES	BOLTS TO ANGLES	LONGITUDAL, TRANSVERSE & VERTICAL ANGLES	ROD DIAMETER INCHES	MAXIMUM ROD LENGTH	MAXIMUM INTERVAL OF BRACES IN FEET	
					40-S STEEL OR CAST IRON	COPPER TUBE
1	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/4	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	24.2	12.1
1-1/2	3/8"	1-1/2" X 1-1/2" X 3/16"	3/8"	19"	27.5	13.2
2	3/8"	1-1/2" X 1-1/2" X 3/16"	1/2"	25"	31.9	15.4
2-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	35.2	16.5
3	3/8"	2" X 2" X 5/16"	1/2"	25"	37.4	18.7
3-1/2	3/8"	2" X 2" X 5/16"	1/2"	25"	39.6	19.8
4	3/8"	2" X 2" X 5/16"	5/8"	31"	42.9	20.9
5	1/2"	2" X 2" X 5/16"	5/8"	31"	45.1	22.0
6	1/2"	2" X 2" X 5/16"	3/4"	37"	49.5	24.2
8	1/2"	2-1/2" X 2-1/2" X 1/4"	7/8"	43"	53.9	28.6
10	1/2"	3" X 3" 1/4"	7/8"	43"	59.4	30.8

PIPING BRACING NOTES:

1. DESIGN SUPPORT SYSTEM FOR SEISMIC ZONE 4.
2. REFERENCE SMACNA SEISMIC RESTRAINT MANUAL. ALTERNATE SEISMIC RESTRAINT METHODS CAN BE FOUND IN SMACNA SEISMIC RESTRAINT MANUAL.
3. SEISMIC BRACING IS REQUIRED FOR ALL PIPING 2-1/2" AND LARGER.
4. DO NOT USE BRANCH SECTIONS TO BRACE PIPING MAINS.
5. PROVIDE FLEXIBLE COUPLINGS AT PENETRATIONS THROUGH BUILDING SEISMIC AND EXPANSION JOINTS AND WHERE PIPING IS RIGIDLY CONNECTED TO EQUIPMENT.
6. FOR EQUIPMENT REQUIRING SEISMIC BRACING, INSTALL BRACES AS FOLLOWS:
   DO NOT USE JOIST BRIDGING FOR SUPPORT OF ANY LOAD.
   a. IF SUPPORTING LOADS ABOVE 50 LBS. BETWEEN JOIST PANEL POINTS REINFORCE BOTTOM CORD OF
   b. JOIST AS PER STRUCTURAL ENGINEERS REQUIREMENTS. REFER TO SUPPORT DETAILS ON STRUCTURAL DRAWINGS.

3 / P-602 TRANSVERSE PIPING SWAY BRACING DETAIL

NOT TO SCALE

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By: jmcdonald, Dec 15, 2009 - 11:56am, X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\P6.1 - 09194.00.dwg

By: khaacke; Dec 15, 2009 - 11:54 AM, Date Plotted: Dec 15, 2009 - 11:54 AM X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Filmore\E-100 - 09194.01.dwg

ELECTRICAL SYMBOLS

NOTE: SYMBOLS SHOWN IN THIS SCHEDULE ARE TYPICAL. NOT ALL ARE USED IN THIS PROJECT.

DASHED SYMBOLS INDICATE EXISTING FIXTURE, EQUIPMENT, ETC.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	ELECTRICAL WIRING			**LIGHTING CONTROL**			**AUDIO / VIDEO**	
	CROSS LINES INDICATE NUMBER OF CONDUCTORS GROUNDING CONDUCTORS NOT INCLUDED.	N/A	$	SINGLE POLE SWITCH	+48"	TV	TELEVISION OUTLET	AS NOTED
	BRANCH CIRCUIT CONCEALED IN CEILING OR WALL	N/A	$3	3-WAY SWITCH	+48"	V	VOLUME CONTROL	+48"
	BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR	N/A	$4	4-WAY SWITCH	+48"	S	SPEAKER	CEILING
A-1,3	BRANCH CIRCUIT HOMERUNS TO PANEL W/PANEL & CIRCUIT NUMBER DESIGNATIONS.	N/A	$P	SWITCH WITH PILOT LIGHT	+48"	M	MICROPHONE JACK	+16"
	CONDUIT RISER UP	N/A	SD	DIMMER SWITCH	+48"	A	AUXILIARY JACK	+16"
	CONDUIT RISER DOWN	N/A	$K	KEYED SWITCH	+48"	IC	INTERCOM STATION	+48"
	CONDUIT STUB (CAP CONDUIT)	AS NOTED	$TM	TIMER SWITCH (SPRING WOUND)	+48"		BELL	+84"
C	CABLE TRAY	AS NOTED	$T	MANUAL STARTER WITH THERMAL OVERLOAD	AS NOTED		CHIME	+84"
B	BUS DUCT	AS NOTED	$L	LOW VOLTAGE SWITCH	+48"		**FIRE ALARM**	
	ELECTRICAL POWER		$a	CONTROLLING SWITCH (LETTER INDICATES CONTROL CIRCUIT)	+48"	F	FIRE ALARM MANUAL PULL STATION	SEE DETAIL
J	JUNCTION BOX	AS NOTED		SINGLE POLE SWITCH/OCCUPANCY SENSOR COMBINATION. MANUAL ON/AUTO OFF (WALL MOUNTED) DUAL TECHNOLOGY'	+48"		FIRE ALARM HORN/STROBE	SEE DETAIL
	DUPLEX RECEPTACLE	+16"		OCCUPANCY SENSOR DUAL TECHNOLOGY	CEILING		FIRE ALARM HORN/STROBE WITH GUARD	SEE DETAIL
	QUAD RECEPTACLE	+16"	TS	TIME SWITCH	+60"	WP	FIRE ALARM HORN/STROBE WATERPROOF	SEE DETAIL
	SPLIT WIRED DUPLEX RECEPTACLE	+16"	LC	LIGHTING CONTACTOR	+60"		FIRE ALARM STROBE	SEE DETAIL
WP	DUPLEX RECEPTACLE WEATHERPROOF AND GFCI	+16"	P	PHOTOCELL	AS NOTED		SMOKE DETECTOR	CEILING
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"		**LIGHTING**		B	SMOKE DETECTOR BATTERY-BACKED	CEILING
EWC	RECEPTACLE ELECTRIC WATER COOLER (EWC) WITH GROUND FAULT CIRCUIT INTERRUPTION PROTECTION	+16"		FLUORESCENT FIXTURE (TYPICAL)	CEILING	D	DUCT SMOKE DETECTOR	IN DUCT
	EQUIPMENT RECEPTACLE	+16"	EM	FLUORESCENT EMERGENCY FIXTURE (TYPICAL)	CEILING	E	SMOKE DETECTOR (ELEVATOR RECALL)	CEILING
	SPECIAL PURPOSE RECEPTACLE	+16"		SURFACE MOUNTED FIXTURE	CEILING		HEAT DETECTOR	CEILING
	DUPLEX RECEPTACLE FLOOR	FLOOR		RECESSED FIXTURE	CEILING		GAS DETECTOR	+16"
	QUAD RECEPTACLE FLOOR	FLOOR		WALL MOUNTED FIXTURE	AS NOTED		DOOR HOLDER	AS NOTED
	POWER/TELEPHONE POLE	FLOOR		WALL MOUNTED EMERGENCY EGRESS FIXTURE	AS NOTED		PRESSURE SWITCH	AS NOTED
	MUTI-OUTLET WIREWAY	+46"		FLUORESCENT STRIP	CEILING		FIRE ALARM FLOW SWITCH	AS NOTED
	ELECTRICAL CONNECTIONS			TRACK LIGHTING	CEILING		FIRE ALARM TAMPER SWITCH	AS NOTED
	NON-FUSED DISCONNECT SWITCH	TOP AT 6'-0"		EMERGENCY LIGHTING UNIT	+84"		FIRE ALARM FIREFIGHTER PHONE	+48"
	FUSED DISCONNECT SWITCH	TOP AT 6'-0"	FXX	FIXTURE TYPE SYMBOL (ATTACHED TO FIXTURE SYMBOL)	N/A	CM	CONTROL MODULE	AS NOTED
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION NON-FUSED	TOP AT 6'-0"		POST TOP AREA LIGHT POLE & FIXTURE	AS NOTED	MM	MONITOR MODULE	AS NOTED
	MOTOR STARTER/DISCONNECT SWITCH COMBINATION FUSED	TOP AT 6'-0"		AREA LIGHT POLE AND FIXTURE (HEAD QTY AS SHOWN ON PLAN)	AS NOTED	FSD	FIRE/SMOKE DAMPER	AS NOTED
	MOTOR STARTER ONLY	TOP AT 6'-0"		BOLLARD FIXTURE	GROUND	R	FIRE ALARM RELAY	AS NOTED
VFD	VARIABLE FREQUENCY DRIVE	+78"		FLOOD OR SPOT FIXTURE	AS NOTED	GAA	FIRE ALARM GENERATOR ANNUNCIATOR	TOP AT 6'-0"
	MOTOR CONNECTION	AS NOTED		WALL MOUNTED EXIT LIGHT (SINGLE FACE)	+84"	FST	FIRE ALARM TRANSMISSION (MONITORING) DEVICE	AS NOTED
	ELECTRICAL DISTRIBUTION			WALL MOUNTED EXIT LIGHT (DOUBLE FACE)	+84"	FACP	FIRE ALARM CONTROL PANEL	TOP AT 6'-0"
T	TELEPHONE COMPANY PEDESTAL	AS NOTED		CEILING MOUNTED EXIT LIGHT (SINGLE FACE)	CEILING	FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	TOP AT 6'-0"
GS	POWER COMPANY GROUND SLEEVE	AS NOTED		CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)	CEILING		**SECURITY**	
	POWER COMPANY SITE TRANSFORMER	AS NOTED		**TELECOMMUNICATIONS**		D1	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB
	HIGH VOLTAGE (277/480 VOLT) PANELBOARD	TOP AT 6'-0"		TELEPHONE OUTLET	+16"	D2	SECURITY SYSTEM OVERHEAD DOOR CONTACT	AS NOTED
	LOW VOLTAGE (120/208 VOLT) PANELBOARD	TOP AT 6'-0"		COMPUTER DATA OUTLET	+16"	KP	SECURITY SYSTEM KEYPAD ARM/DISARM	+48"
	DRY TYPE TRANSFORMER	AS NOTED		VOICE / DATA OUTLET	+16"	ES	SECURITY SYSTEM DOOR ELECTRIC STRIKE	AS NOTED
	DISTRIBUTION SWITCHBOARD	AS NOTED		TELEPHONE OUTLET FLOOR	FLOOR	ML	SECURITY SYSTEM MAGNETIC DOOR LOCK	AS NOTED
	TELEPHONE AND/OR DATA TERMINAL BOARD	AS NOTED		COMPUTER DATA OUTLET FLOOR	FLOOR	REX	REQUEST TO EXIT MOTION DETECTOR	AS NOTED
	ELECTRICAL DEVICES			NETWORK AND VOICE OUTLET FLOOR	FLOOR	M	SECURITY SYSTEM AREA MOTION SENSOR	AS NOTED
	PUSHBUTTON	+48"		**REFERENCE SYMBOLS**		G	SECURITY SYSTEM GLASS BREAK SENSOR	AS NOTED
	STOP/START STATION	+48"	XX X	FEEDER TAG (ONE LINE DIAGRAM)	N/A	CR	SECURITY SYSTEM CARD READER	+48"
EPO	"EMERGENCY POWER OFF" MUSHROOM TYPE BUTTON	+48"	X	REVISION TAG INDICATOR	N/A	AK	SECURITY SYSTEM DOOR ACCESS KEYPAD	+48"
T	LINE VOLTAGE THERMOSTAT	+48"	X / EX	DETAIL INDICATOR: TOP DETAIL IDENTIFICATION BOTTOM INDICATES SHEET WHERE DETAIL IS LOCATED.	N/A		SECURITY SYSTEM CCTV CAMERA	AS NOTED
	CLOCK	AS NOTED	X-XX	MECHANICAL EQUIPMENT SYMBOL	N/A	DVR	DIGITAL VIDEO RECORDER	AS NOTED
N	NURSE CALL BED/BATH STATION	+48"	X	KEYED NOTE REFERENCE	N/A	MON	SECURITY SYSTEM CCTV MONITOR	AS NOTED
N	NURSE CALL LIGHT	+84"				SERT	SECURITY SYSTEM PANEL	TOP AT 6'-0"
NURS	NURSE CALL STATION PANEL	TOP AT 6'-0"				PS	POWER SUPPLY LOW VOLTAGE	AS NOTED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	(N)	NEW
AFP	ARC FAULT PROTECTOR	EWH	ELECTRIC WATER HEATER	NIC	NOT IN CONTRACT
AIC	AMP INTERRUPTING CURRENT (SYMMETRICAL)	(A)	FUTURE	NL	NIGHT LIGHT
AL	ALUMINUM	FA	FIRE ALARM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BG	BELOW GRADE	FLA	FULL LOAD AMPS	OFOI	OWNER FURNISHED OWNER INSTALLED
C	CONDUIT	GFI	GROUND FAULT INTERRUPTER	PNL	PANEL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GFP	GROUND FAULT PROTECTOR	(R)	RELOCATE
CKT	CIRCUIT	GRC	GALVANIZED RIGID CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CO	CONDUIT ONLY	GRND	GROUND	TYP	TYPICAL
CU	COPPER	IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
C/W	COMPLETE WITH	MCB	MAIN CIRCUIT BREAKER	WP	WEATHER PROOF
E	EMERGENCY	MCC	MOTOR CONTROL CENTER	(X)	DEMOLISH/DELETE
(E)	EXISTING	MH	MANHOLE	XMR	TRANSFORMER
EPO	EMERGENCY POWER OFF	MLO	MAIN LUGS ONLY	(XP)	EXPLOSION PROOF

* THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS AE USED ON THIS PROJECT.

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH THE SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
3. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. MANUFACTURES CATALOG NUMBERS ARE LISTED AS A BASIS OF DESIGN. ELECTRICAL CONTRACTOR SHALL SUBMIT PRODUCT INFORMATION THAT DEVIATES FROM ORIGINAL DESIGN INTENT AND SPECIFICATION.
4. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
5. ALL IMPACT FEES ASSOCIATED WITH CITY, UTILITY OR SERVICE COMPANIES FOR BUT NOT LIMITED TO POWER, TELEPHONE, FIBER OPTIC & INTERNET SHALL BE THE RESPONSIBILITY OF THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY POWER FOR PROJECT CONSTRUCTION AS REQUIRED. ALL ENERGY COSTS ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
7. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO DUCTS, PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE MOST RECENT VERSION OF THE NATIONAL ELECTRICAL CODE REGARDING CLEARANCES REQUIRED AROUND THE PANELBOARD(S).
8. DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS.
9. ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH IN OF ELECTRICAL DEVICE JUNCTION BOXES.
10. CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
11. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING AND CEILING INSTALLATIONS.
12. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
13. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
14. ELECTRICAL ROOM DRAWINGS ARE FOR REFERENCE ONLY OF EQUIPMENT QUANTITIES. ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ELECTRICAL ROOM SHOWING DIMENSIONS AND CLEARANCES OF ALL EQUIPMENT AND ELECTRICAL GEAR PROVIDED. COORDINATE LAYOUT WITH ONE-LINE DRAWINGS.
15. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS FROM NAMEPLATE RATINGS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
16. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
17. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
18. FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
19. ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
20. ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH UL LISTED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
21. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.
22. WIRE FOR GENERAL USE SHALL BE COPPER 75° C RATED . WIRING FOR HID FIXTURES WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
23. CONDUCTORS HAVE BEEN SIZED FOR VOLTAGE DROP AS PER PLANS AND DIRECT ROUTING. ANY DEVIATION IN CONDUIT ROUTING MAY INCREASE THE WIRE AND CONDUIT SIZE. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO INSURE PROPER OPERATING VOLTAGE ON ALL CIRCUITS BOTH INTERIOR AND EXTERIOR. THE VOLTAGE DROP SHALL NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS FOR A TOTAL OF 5% COMBINED TOGETHER OF BRANCH AND FEEDER CIRCUITS TO THE FARTHEST OUTLET.
24. ALL WIRING IN PATIENT TREATMENT AREAS SHALL BE ENCLOSED IN METAL RACEWAYS. ALL RECEPTACLES, LIGHTING FIXTURES, ETC. SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR FROM EACH DEVICE TO THE BRANCH PANEL. ELECTRICAL CONTRACTOR SHALL COMPLY WITH ARTICLE 517 OF THE 2008 NATIONAL ELECTRICAL CODE (e.g. WIRING, DEVICE PLACEMENT, ETC.).
25. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UTILITY METERING EQUIPMENT TO COMPLY WITH THE STANDARDS OF THE LOCAL OR PROJECT SPECIFIC POWER COMPANY.
26. VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. A UTILITY LOCATING COMPANY SUCH AS "BLUE STAKE" OR EQUAL SHALL BE USED TO VERIFY AND MARK UTILITIES BEFORE TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC, REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION. PATCHING SHALL MATCH EXISTING SURROUNDING SURFACES. CONTRACTOR SHALL OBTAIN AND VERIFY UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL, MECHANICAL, AND SITE EXCAVATION CONTRACTORS.
27. PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.
28. SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.
29. ELECTRICAL CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS WITH PROJECT ENGINEER DURING FINAL INSPECTION TO INSURE PROPER OPERATION. IF TESTS RESULT IN DEFECT THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER.
30. PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
31. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROMPTLY CORRECTED.
32. ALL CABLES AND RACEWAYS INSTALLED UNDER METAL CORRUGATED ROOF DECK SHALL BE INSTALLED AND SUPPORTED TO THE NEAREST OUTSIDE SURFACE IF THE CABLE OR RACEWAY IS NOT LESS THAN 1½" FROM THE NEAREST SURFACE OF THE ROOF DECKING.

LIGHT FIXTURE SCHEDULE

FIXTURE NUMBER	FIXTURE MANUFACTURER	FIXTURE CATALOG #	DESCRIPTION	LAMPS TYPE	LAMPS QTY.	FIXTURE VOLTS	FIXTURE WATTS	FIXTURE MOUNTING	REMARKS
F1	METALUX DAYBRITE	2GC8-232A125-EB81 2DPG232-FS12-1/2EB	2X4 PRISMATIC LAYIN FIXTURE SPECIFICATION GRADE (2-LAMP)	F32T8/SP35 ECO	2	120	66	LAY-IN GRID	PROVIDE WITH ELECTRONIC BALLAST
F2	PORTFOLIO OMEGA	C6042-E-6001-LI S632PLTU-T6CS	FLUOR. DOWNLIGHT W/ALZAK TRIM 32 TRT LAMP	32 TRT	1	120	34	RECESSED	PROVIDE WITH ELECTRONIC BALLAST
F3	DAYBRITE METALUX	CD 232W-2/1-EB BE-232-EB81	48" WALL MTD. FLUORESCENT WITH 2-LAMP	F32T8/SP35 ECO	2	120	66	SURFACE WALL	PROVIDE WITH ELECTRONIC BALLAST
F4	METALUX DAYBRITE	WS-232A-EB81 CAN232-1/2EB	1X4 SURFACE FLUORESCENT (2 LAMP)	F32T8/SP35 ECO	2	120	66	SURFACE CEILING	PROVIDE WITH ELECTRONIC BALLAST
F5	METALUX DAYBRITE	SS-232-EB81 T232-1/2EB	48" DOUBLE TUBE STRIP	F32T8/SP35 ECO	2	120	66	SURFACE/CHAIN	PROVIDE WITH ELECTRONIC BALLAST
E1	BODINE IOTA	B50 I-320	EMERGENCY BALLAST ((2)-4 FOOT T-8 LAMP)	----	----	120	----	----	EMERGENCY BALLAST (1)-4 FOOT T8 LAMP, 1100 LUMENS MIN. VERIFY COMPATIBILITY BEFORE ORDERING
E2	BODINE IOTA	B94C I-320 EM	EMERGENCY BALLAST ((1)-39 WATT COMPACT FLUORESCENT)	----	----	120	----	----	EMERGENCY BALLAST (1)-39WATT 4 PIN COMPACT FLUOR., 450 LUMENS MIN. VERIFY COMPATIBILITY BEFORE ORDERING
E6	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X1	ISOLITE MCPHILBEN	LPDCEMGS-WW-UN ER55L-1-WB	POWERED SINGLE FACE EXIT W/ "EM" BATTERY PACK	INCLUDED	2	120	11.2	UNIVERSAL	NICKEL/CADMIUM BATTERY SINGLE FACE EXIT

NOTE:
ELECTRICAL CONTRACTOR SHALL PROVIDE A 'QUICK DISCONNECT HARNESS' FOR EACH FLUORESCENT LIGHTING FIXTURE TO SERVE AS A MEANS OF DISCONNECT TO ALLOW THE FIXTURE BALLAST TO BE SERVICED IN PLACE, AS PER THE NATIONAL ELECTRICAL CODE 2008, ARTICLE 410.130 (G).

EQUIPMENT SCHEDULE

UNIT #	DESCRIPTION	ELECTRICAL LOAD	VOLTS	PHASE	AMPS	REFERENCE NOTES DISCONNECT	SIZE (AMPS)	FUSE (AMPS)	STARTER SIZE	ENCLOSURE	REMARKS
RTU-1	ROOFTOP UNIT	26390 VA	208	3	73.25	1A	100	----	----	18	
UH-1	UNIT HEATER	1/20 HP	120	1	2.0	5A	----	----	----	17	
EWH-1	ELECTRIC WALL HEATER	1500 VA	120	1	12.5	12A	----	----	----	----	
F-1	FURNACE	1/6 HP	120	1	4.4	5A	----	----	----	17	
F-2	FURNACE	1/3 HP	120	1	7.2	5A	----	----	----	17	
F-3	FURNACE	1/2 HP	120	1	9.8	5A	----	----	----	17	
F-4	FURNACE	1/2 HP	120	1	9.8	5A	----	----	----	17	
F-5	FURNACE	1/2 HP	120	1	9.8	5A	----	----	----	17	
CU-1	CONDENSING UNIT	4359 VA	208	3	12.1	1A	30	----	----	18	
CU-2	CONDENSING UNIT	5728 VA	208	3	15.9	1A	30	----	----	18	
CU-3	CONDENSING UNIT	5403 VA	208	3	15.0	1A	30	----	----	18	
CU-4	CONDENSING UNIT	5728 VA	208	3	15.9	1A	30	----	----	18	
CU-5	CONDENSING UNIT	4359 VA	208	3	12.1	1A	30	----	----	18	
ERV-1	ENERGY RECOVERY VENT	13989 VA	208	3	38.8	1A	60	----	----	18	
AC-1	AC UNIT	1602 VA	208	1	7.7	1A	30	----	----	18	
EF-1	EXHAUST FAN	1/6 HP	120	1	4.4	5A	----	----	----	17	

NOTES:
1. NON-FUSED DISCONNECT SWITCH
2. FUSED DISCONNECT SWITCH
3. BREAKER IN ENCLOSURE
4. FUSED DISCONNECT SWITCH WITH SHUNT TRIP
5. MANUAL STARTER WITH THERMAL OVERLOAD
6. MAGNETIC STARTER
7. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION
8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
9. MAGNETIC STARTER/BREAKER COMBINATION
10. VARIABLE SPEED DRIVE
11. REDUCED VOLTAGE STARTER
12. DIRECT CONNECTION
13. RECEPTACLE/SPECIAL PURPOSE OUTLET ETC.
14. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE
15. MAXIMUM CIRCUIT AMPS (MCA)
16. FULL LOAD CURRENT
17. PROVIDE WITH NEMA 1 ENCLOSURE
18. PROVIDE WITH

A. FURNISHED, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION, FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
C. FURNISHED UNDER ANOTHER DIVISION, INSTALLED AND FINAL CONNECTION BY THE ELECTRICAL CONTRACTOR.
D. FURNISHED, INSTALLED AND FINAL CONNECTION UNDER ANOTHER DIVISION.

GENERAL NOTES:
1. VERIFY ALL EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS (i.e. VOLTAGE, PHASE, FLA, ETC.) WITH MECHANICAL DRAWINGS/SUBMITTALS PRIOR TO STARTING ROUGH IN.
2. ALL FUSES SHALL BE DUAL ELEMENT, TIME DELAY. FINAL BREAKER/FUSE & DISCONNECT SIZE SHALL BE DETERMINED BY MANUFACTURER'S RECOMMENDATION FOR ACTUAL EQUIPMENT INSTALLED.
3. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL

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BUILDING NAME:
FILLMORE ARMORY
UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET
ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
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CAD DWG FILE: E-100 - 09194.01
DESIGNED BY: KJH
CHK'D BY: RKR
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REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH

SHEET TITLE
ELECTRICAL LEGEND, SYMBOLS, & NOTES

SHEET NUMBER
E-100

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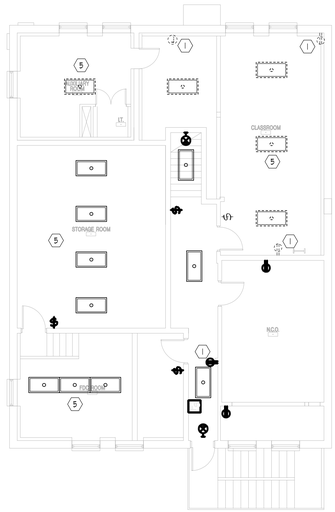
A MAIN LEVEL FLOOR PLAN - ELECTRICAL DEMOLITION
E-101 SCALE: 1/8" = 1'-0"



B MAIN LEVEL FLOOR PLAN - ELECTRICAL DEMOLITION
E-101 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL SALVAGEABLE MATERIALS AS DETERMINED BY THE ARCHITECT RESULTING FROM THE DEMOLITION OF THE EXISTING STRUCTURE AS INDICATED ON THE DEMOLITION PLAN AND WHICH ARE NOT TO BE RE-USED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF BY HIM. ALL MATERIALS NOT SO DESIGNATED AS SALVAGEABLE BY THE ARCHITECT SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
2. ELECTRICAL CONTRACTOR TO COORDINATE THE REMOVAL OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR (SEE MECHANICAL DEMOLITION PLAN) MECHANICAL DEMOLITION PLAN IS PART OF THIS CONTRACT. CONTRACTOR IS TO REMOVE ALL ELECTRICAL MATERIAL FROM THE UNITS (DISCONNECTS, CONDUIT, WIRE, ETC.). CONTRACTOR TO REMOVE, ASSOCIATE CIRCUITS, CONDUIT AND CONDUCTORS.
3. ELECTRICAL CONTRACTOR TO REMOVE AND RELOCATE ALL SOUND SYSTEM DEVICES AS REQUIRED. ELECTRICAL CONTRACTOR SHALL ASSURE A WORKING SYSTEM UPON COMPLETION OF THE PROJECT. MAINTAIN THE SYSTEM INTEGRITY.
4. ELECTRICAL CONTRACTOR TO VISIT THE PROJECT SITE DURING THE BIDDING PROCESS TO DETERMINE THE TOTAL SCOPE OF THE DEMOLITION.

KEYED NOTES (#):

1. REMOVE EXISTING RECEPTACLE AND ASSOCIATED CONDUCTORS AND CONDUIT.
2. REMOVE EXISTING DATA/TELEPHONE OUTLET AND ASSOCIATED CABLES AND CONDUIT.
3. REMOVE EXISTING JUNCTION BOX AND ASSOCIATED CABLES AND CONDUIT.
4. REMOVE EXISTING SWITCH AND ASSOCIATED CONDUCTORS AND CONDUIT.
5. REMOVE EXISTING LIGHT FIXTURE.
6. REMOVE EXISTING FIRE ALARM DEVICE AND ALL ASSOCIATED CONDUIT AND WIRE.
7. REMOVED EXISTING PANELBOARD AND ALL ASSOCIATED FEEDERS AND CONDUIT.
8. REMOVE EXISTING FIRE ALARM PANEL.
9. REMOVE EXISTING FAN AND ALL EXISTING CONDUIT AND WIRE.
10. REPLACED.

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BUILDING NAME:

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UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

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SHEET TITLE

MAIN LEVEL FLOOR PLAN - ELECTRICAL DEMOLITION

SHEET NUMBER

E-101

By, kbadake, Dec 15, 2009 - 11:54 AM Date Plotted: Dec 15, 2009 - 11:54 AM X:\Projects\2009\09194.00.01 - UTNG Armory Remodel\Fillmore\E-101 - 09194.01.dwg
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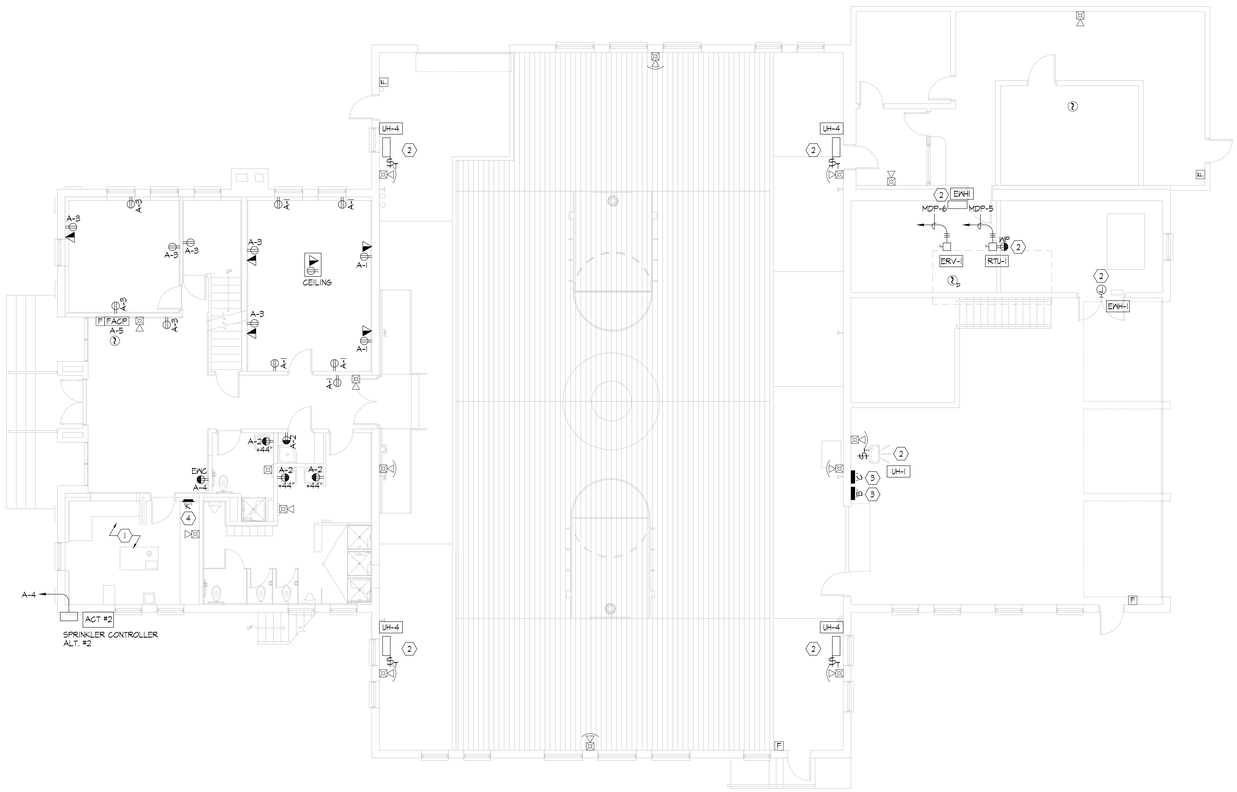
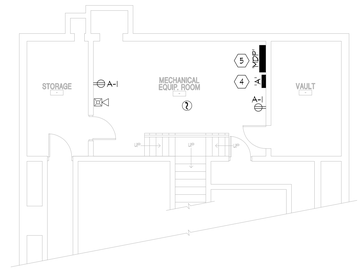


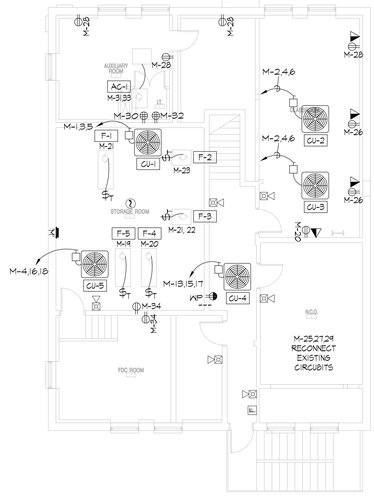
A E-201 MAIN LEVEL FLOOR PLAN - POWER & SYSTEMS

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



B E-201 BASEMENT LEVEL FLOOR PLAN - POWER & SYSTEMS

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



C E-201 UPPER LEVEL FLOOR PLAN - POWER & SYSTEMS

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

KEYED NOTES (#):

1. REMOVE ALL BRANCH CIRCUITS FROM PANELBOARD 'A' WHICH FED ALL THE EXISTING KITCHEN EQUIPMENT AND RE-ROUTE TO PANELBOARD 'K'. PROVIDE AND INSTALL ALL CONDUIT, WIRE, AND BREAKERS AS REQUIRED.
2. PROVIDE AND INSTALL A ¾" CONDUIT WITH (3)-#10 AWG THHN COPPER + (1)-#10 AWG THHN COPPER GROUND TO PANELBOARD 'G'. PROVIDE AND INSTALL A NEW 20A/1P BREAKER IN PANELBOARD 'G'.
3. EXISTING PANELBOARD (SEE ONE LINE DIAGRAM).
4. NEW PANELBOARD (SEE ONE LINE DIAGRAM).
5. NEW MAIN DISTRIBUTION PANELBOARD (SEE ONE LINE DIAGRAM).
6. EXTEND EXISTING COMPRESSOR CIRCUIT TO NEW LOCATIO, PROVIDE AND INSTALL ALL CONDUIT, WIRE, ECT. AS REQUIRED.

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SHEET TITLE

FLOOR PLANS - POWER & SYSTEMS

SHEET NUMBER

E-201

SHEET 49 OF 53

REGISTERED PROFESSIONAL ENGINEER No. 154867 DEAN P. LEVORSEN STATE OF UTAH

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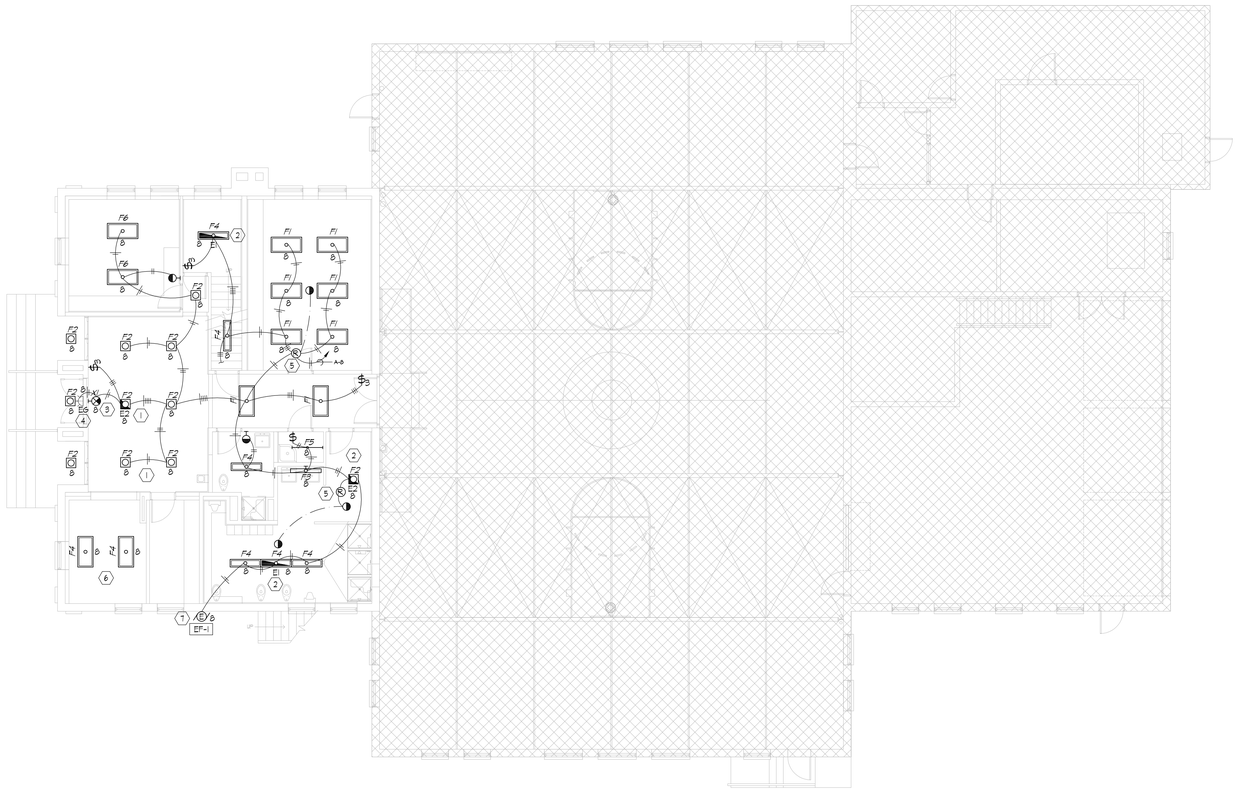

A MAIN LEVEL FLOOR PLAN - LIGHTING
E-301 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL WALL MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH INTEGRAL OVERRIDE SWITCH. MOTION SENSOR TO MOUNT IN A STANDARD SWITCH BOX. MOTION SENSOR TO HAVE A FIFTEEN MINUTE TIME DELAY SET AT TEN MINUTES. USE WATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
2. ALL CEILING MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH POWER PACK AS REQUIRED TO CONTROL LIGHTING. MOTION SENSOR TO HAVE A FIFTEEN MINUTE DELAY SET AT TEN MINUTES. CONTRACTOR TO SUBMIT FLOOR PLAN TO MOTION SENSOR SUPPLIER FOR FACTORY TO LOCATE MOTION SENSOR FOR OPTIMAL PERFORMANCE TO AVOID NUISANCE SHUT OFF OF LIGHTING. MANUFACTURERS LAYOUT PLAN TO BE PART OF SUBMITTALS. PROVIDE SUFFICIENT BOX DEPTH AND CORRECT PLASTER RING TO ACCOMMODATE ACTUAL RELAY UNIT AND OCCUPANCY SENSOR INSTALLED. PROVIDE PROPER SEPARATION OF 120 VOLT AND CLASS 2 WIRING AS NECESSARY IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. USE WATT-STOPPER SENSOR SWITCH OR APPROVED EQUAL.
3. SUB-LETTERS NEXT TO SWITCHES INDICATE SWITCHING ASSIGNMENTS. ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE, JUNCTION BOXES, ETC., AS REQUIRED TO EXTEND CIRCUITING FROM WALL BOX AND/OR THE LIGHTING CONTROL PANEL TO FIXTURES FOR SWITCHING ASSIGNMENTS. LOWER CASE LETTERS ON OR NEAR FIXTURES INDICATE CONTROLLING SWITCHES. SWITCH LEG(S) NOT SHOWN.
4. ARCHITECTURAL REFLECTED CEILING PLAN TAKES PRECEDENCE OVER THIS PLAN FOR FIXTURE LOCATIONS AND PLACEMENT. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR WALL MOUNTED FIXTURE MOUNTING HEIGHTS.

KEYED NOTES (◉):

1. EMERGENCY LIGHT FIXTURE TO BE UNSWITCHED, PROVIDE CONTINUOUS CIRCUIT (SEE EMERGENCY BALLAST OPERATION DETAIL).
2. EMERGENCY LIGHT FIXTURE TO BE SWITCHED (SEE EMERGENCY BALLAST OPERATION DETAIL).
3. EXIT SIGN TO BE UNSWITCHED, PROVIDE CONTINUOUS CIRCUIT.
4. EMERGENCY EGRESS FIXTURE ON EM BATTERY PACK (SEE EMERGENCY BALLAST OPERATION DETAIL), MOUNTED ON BUILDING EXTERIOR ABOVE THE DOOR. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHT.
5. JUNCTION BOX WITH RELAY FOR OCCUPANCY SENSOR SWITCHING.
6. NEW LIGHTS IN SAME LOCATION.
7. EXHAUST FAN CONTROL BY THE MECHANICAL CONTRACTOR.

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
PVE PROJECT NO: 09194.00.01
CAD DWG FILE: E-301 - 09194.01
DESIGNED BY: KJH
CHK'D BY: RKR
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SHEET TITLE

FLOOR PLANS - LIGHTING

SHEET NUMBER

E-301

SHEET 50 OF 53

No. 154867 DEAN P. LEVORSEN STATE OF UTAH

By: kbadeka Dec 15, 2009 - 11:51 AM Date Plotted: Dec 15, 2009 - 11:52 AM X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\E-301 - 09194.01.dwg

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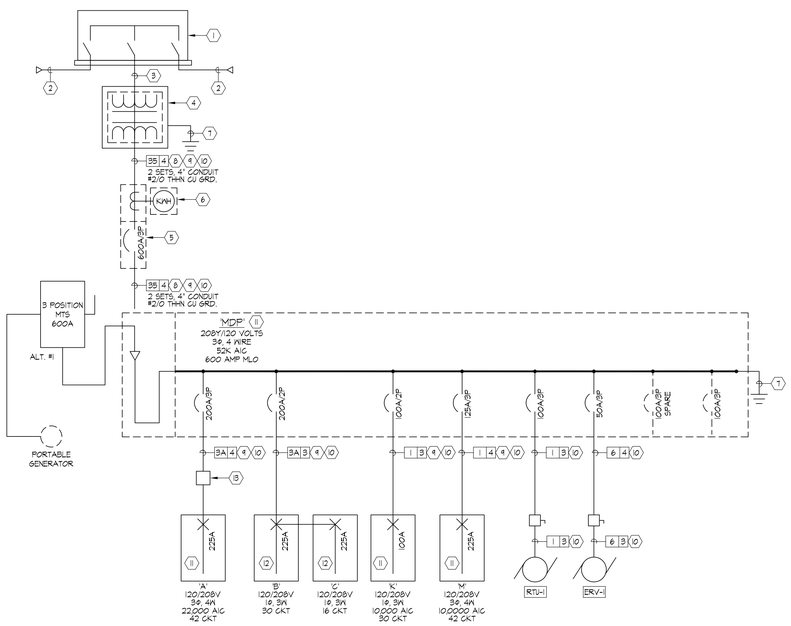


A E401 ONE LINE DIAGRAM

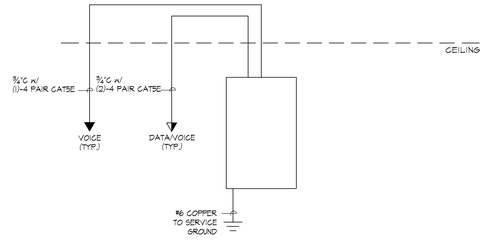
ROCKY MOUNTAIN POWER SERVICE ENTRANCE SCHEDULE

(SCHEDULE IS SHOWN HERE FOR REFERENCE ONLY. VERIFY LATEST VERSION WITH POWER COMPANY PRIOR TO ROUGH-IN. SEE POWER COMPANY FORM 66 051 TABLE 3)

SERVICE ENTRANCE MAX. RATING (AMPS)	SERVICE ENTRANCE CONTINUOUS DUTY (AMPS)	AVAILABLE CONDUIT RUNS	SERVICE SIZE			
			75% LOAD FACTOR		100% LOAD FACTOR	
			PHASE	NEUTRAL	PHASE	NEUTRAL
200	160	(1)-3"	(1)-4/0	(1)-2/0	(1)-4/0	(1)-2/0
400	320	(1)-4"	(1)-350	(1)-4/0	(1)-500	(1)-350
600	480	(2)-4"	(2)-350	(2)-4/0	(2)-350	(2)-4/0
800	640	(3)-4"	(3)-350	(3)-4/0	(3)-350	(3)-4/0
1,000	800	(4)-4"	(3)-350	(3)-4/0	(4)-350	(4)-4/0
1,200	960	(4)-4"	(3)-500	(3)-350	(4)-500	(4)-350
1,600	1280	(6)-4"	(5)-500	(5)-350	(6)-500	(6)-350
2,000	1600	(8)-4"	(6)-500	(6)-350	(8)-500	(8)-350
2,400	1920	(4)-4"	(8)-500	(8)-350	(7)-500 CU	(7)-500 CU
3,000	2,400	(4)-5"	(SEE NOTE #4)			
4,000	3,200	(4)-5"	(SEE NOTE #4)			

NOTES:

1. ABOVE CONDUCTORS ARE CROSS-LINKED POLYETHYLENE (XLPE) INSULATED 600 VOLT ALUMINUM CABLES UNLESS OTHERS SPECIFIED.
2. SERVICE SIZES GIVEN ABOVE CAN CARRY CONTINUOUSLY (THREE HOURS OR MORE) THE SERVICE ENTRANCE LIMIT AMPERAGES GIVEN IN THE SECOND COLUMN. IF THE ACTUAL LOAD IS ESTIMATED TO BE LESS THAN THESE VALUES, THE SERVICE SIZE MAY BE REDUCED ACCORDINGLY.
3. AFTER SELECTING SERVICE CABLES, USE CONSTRUCTION STANDARD 66 051 TO DETERMINE THE VOLTAGE DROP. IF THE VOLTAGE DROP IS GREATER THAN 3 PERCENT INSTALL THE NEXT LARGER SIZE SERVICE.
4. REFER TO TABLE 2 FOR 1500 kVA OR 2500 kVA TRANSFORMER.



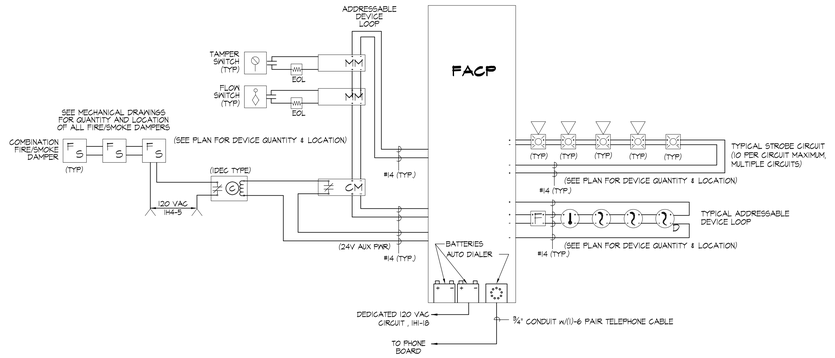
B E401 TELEPHONE/DATA RISER DIAGRAM

ONE LINE GENERAL NOTES:

1. CONTRACTOR TO PROVIDE ALL TRENCHING AND BACKFILL. POWER COMPANY TO PROVIDE AND INSTALL PRIMARY CABLE. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. ALL SERVICE WORK SHALL CONFORM TO POWER COMPANY INSTALLATION STANDARDS.

KEYED NOTES (#):

1. GROUND SLEEVE PROVIDED AND INSTALLED BY POWER COMPANY.
2. (1)-4"C EXTENSION BY ELECTRICAL CONTRACTOR. CAP & LABEL AS REQUIRED BY POWER COMPANY. SEE SITE PLAN FOR ADDITIONAL REQUIREMENTS.
3. (1)-4" PRIMARY CONDUIT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MINIMUM DEPTH 48". PRIMARY CONDUCTORS PROVIDED AND INSTALLED BY POWER COMPANY.
4. NEW TRANSFORMER AND CONCRETE VAULT. TRANSFORMER PROVIDED AND INSTALLED BY POWER COMPANY. CONCRETE VAULT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS PER POWER COMPANY REQUIREMENTS AND SPECIFICATIONS.
5. PROVIDE AND INSTALL A NEW EUSERC RATED CT/MAIN BREAKER ENCLOSURE AS PER POWER COMPANY SPECIFICATIONS.
6. PROVIDE AND INSTALL A NEW EUSERC RATED METER BASE AS PER POWER COMPANY REQUIREMENTS.
7. #2/0 COPPER TO GROUND (SEE SERVICE GROUNDING DETAIL).
8. TRANSFORMER SECONDARY CONDUCTORS. PROVIDE AND INSTALL CONDUIT AS SHOWN ON THE ROCKY MOUNTAIN POWER FEEDER SCHEDULE. ELECTRICAL CONTRACTOR SHALL INCLUDE FEEDER CONDUCTORS SHOWN ON THE ONE LINE DIAGRAM AS A SEPARATE LINE ITEM IN HIS BID PRICE. THIS PRICE SHALL BE FOR THE CONDUCTORS ONLY. THE CONDUIT PRICE SHOWN IN THE ROCKY MOUNTAIN POWER SCHEDULE SHALL BE INCLUDED IN THE GENERAL BID. ELECTRICAL CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE WHETHER THE POWER COMPANY OR THE ELECTRICAL CONTACTOR IS TO PROVIDE THE CONDUCTORS TO THE PROJECT. IN THE EVENT THAT THE POWER COMPANY SHALL BE PROVIDE AND INSTALL CONDUCTORS THE ELECTRICAL CONTRACTOR SHALL CREDIT BACK TO THE OWNER THE PRICE OF THE CONDUCTORS.
9. GROUND REQUIRED REGARDLESS OF CONDUIT TYPE.
10. NEW FEEDER.
11. NEW PANELBOARD.
12. EXISTING PANELBOARD.
13. EXISTING PANEL FEEDERS AND NEW FEEDERS TO NEW MDP 12"X12"X4" PULL BOX.



C E502 FIRE ALARM RISER DIAGRAM

FIRE ALARM GENERAL NOTES:

1. COORDINATE FIRE ALARM DEVICES WITH LIGHTING FIXTURES, SPEAKERS, GRILLS, ETC.
2. DO NOT INSTALL SMOKE DETECTORS WITHIN 3'-0" OF ANY MECHANICAL GRILL.
3. FIRE ALARM CONTROL PANEL AND ANNUNCIATOR ENCLOSURES SHALL CONTAIN A FLANGE AROUND PERIMETER TO FACILITATE AND IMPROVE THE AESTHETIC TRANSITION FROM ENCLOSURE TO SHEETROCK.
4. VERIFY ANY POTENTIAL ADDITIONAL REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.
5. DUCT SMOKE DETECTORS SHOWN FOR REFERENCE.COORDINATE DUCT SMOKE DETECTOR LOCATIONS WITH MECHANICAL PLANS.
6. PLANS ARE BASED UPON 49 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
7. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS & SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
8. PLANS ARE BASED UPON 10 TOTAL STROBE LIGHTS (WHATEVER COMBINATION HOR.STROBE OR INDIVIDUAL STROBES) PER CIRCUIT. PROVIDE FIRE ALARM HORN ON EXTERIOR OF BUILDING. SELECT STROBES BASED UPON ROOM SIZE AND MANUFACTURER.
9. FLOW & TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITORING DEVICES REQUIRED BY ACTUAL REQUIREMENTS.
10. HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE LOCKED HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN THE SPRINKLER HEAD.
11. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
12. HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS (IF REQUIRED) BASED ON 70 MILLIAMPS.
13. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 60 HOURS PLUS 25% SPARE CAPACITY.
14. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
15. RUN SPARE LOOPS IN SAME CONDUIT.
16. PROVIDE DUCT DETECTOR AT EACH FLOOR PRIOR TO CONNECTION TO A COMMON RETURN & PRIOR TO RE-CIRCULATING OR REFRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY & SERVING MORE THAN ONE STORY.
17. PROVIDE MANUAL PULL STATIONS IN BOILER ROOM.
18. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS & PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.
19. PROVIDE AND INSTALL SMOKE DETECTOR AND/OR DUCT SMOKE DETECTOR WITHIN 5'-0" OF A SMOKE/FIRE DAMPER AS PER REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

ISSUE DATE: 12/14/2009

DFCM PROJECT NO: 09242470
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CAD DWG FILE: E-401 - 09194.01
DESIGNED BY: KJH
CHK'D BY: RKR

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SHEET TITLE

ELECTRICAL RISERS

SHEET NUMBER

E-401

SHEET 51 OF 53

No. 154867 DEAN P. LEVORSEN STATE OF UTAH

By: kbaxter, Dec 15, 2009 - 11:49 AM, Date Plotted: Dec 15, 2009 - 11:49 AM X:\Projects\2009\09194.00\01 - UTNG Armory Remodel Fillmore\E-401 - 09194.01.dwg

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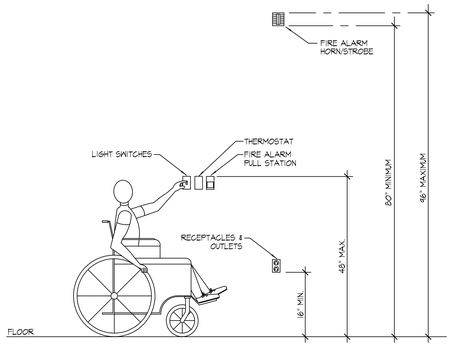
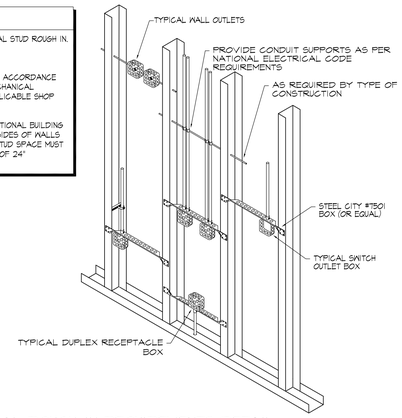


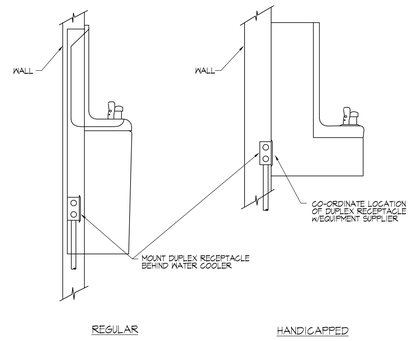
A E-501 MOUNTING HEIGHTS DETAIL

NOTES:

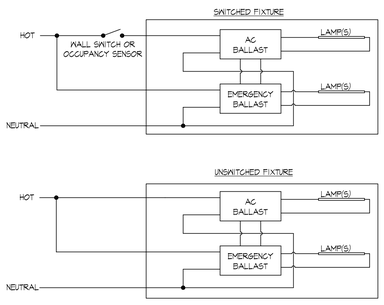
1. TYPICAL FOR WOOD AND METAL STUD ROUGH IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPERATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.



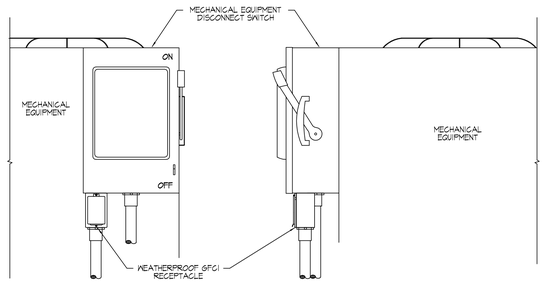
B E-501 TYPICAL ROUGH-IN REQUIREMENTS DETAIL



C E-501 ELECTRIC WATER COOLER DETAIL



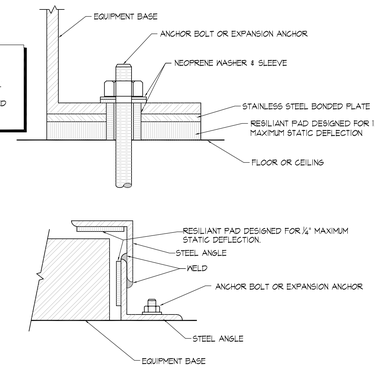
D E-501 EMERGENCY BALLAST OPERATION DETAIL



E E-501 WEATHER PROOF RECEPTACLE MOUNTING DETAIL

NOTES:

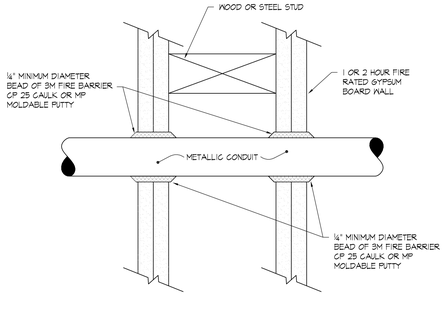
1. SIZE ANCHOR BOLTS TO WITHSTAND LATERAL AND UP LIFTING LOADS. INSTALL ON ALL SIDES OF EQUIPMENT.
2. ISOLATION ASSEMBLY MUST BE DESIGNED TO WITHSTAND #5 G LATERAL AND VERTICLE LOADS.



F E-501 SIESMIC RESTRAINT DETAIL

NOTE:

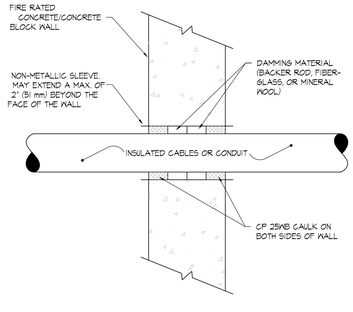
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



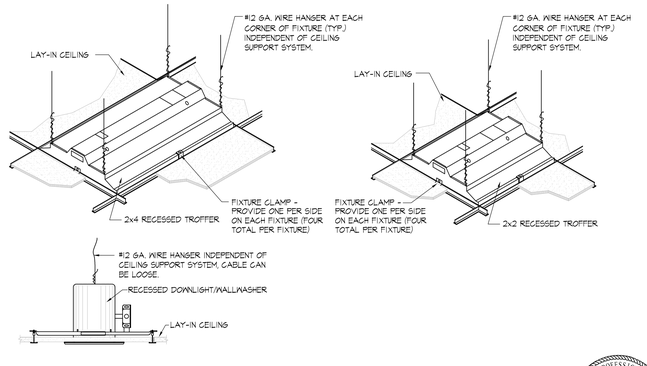
G E-501 FIRE STOP THRU GYPSUM BOARD WALL

NOTE:

TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PRODEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.



H E-501 FIRESTOP THRU CONCRETE/MASONRY WALL



J E-501 LAY-IN GRID FIXTURE SEISMIC MOUNTING DETAILS

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BUILDING NAME:

FILLMORE ARMORY

UTAH NATIONAL GUARD

PROJECT TITLE:

FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET

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SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-501

SHEET 52 OF 53

By: kbadska Dec 15, 2009 - 11:55 AM Date Plotted: Dec 15, 2009 - 11:55 AM X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Fillmore\E-501-E-502 - 09194.01.dwg

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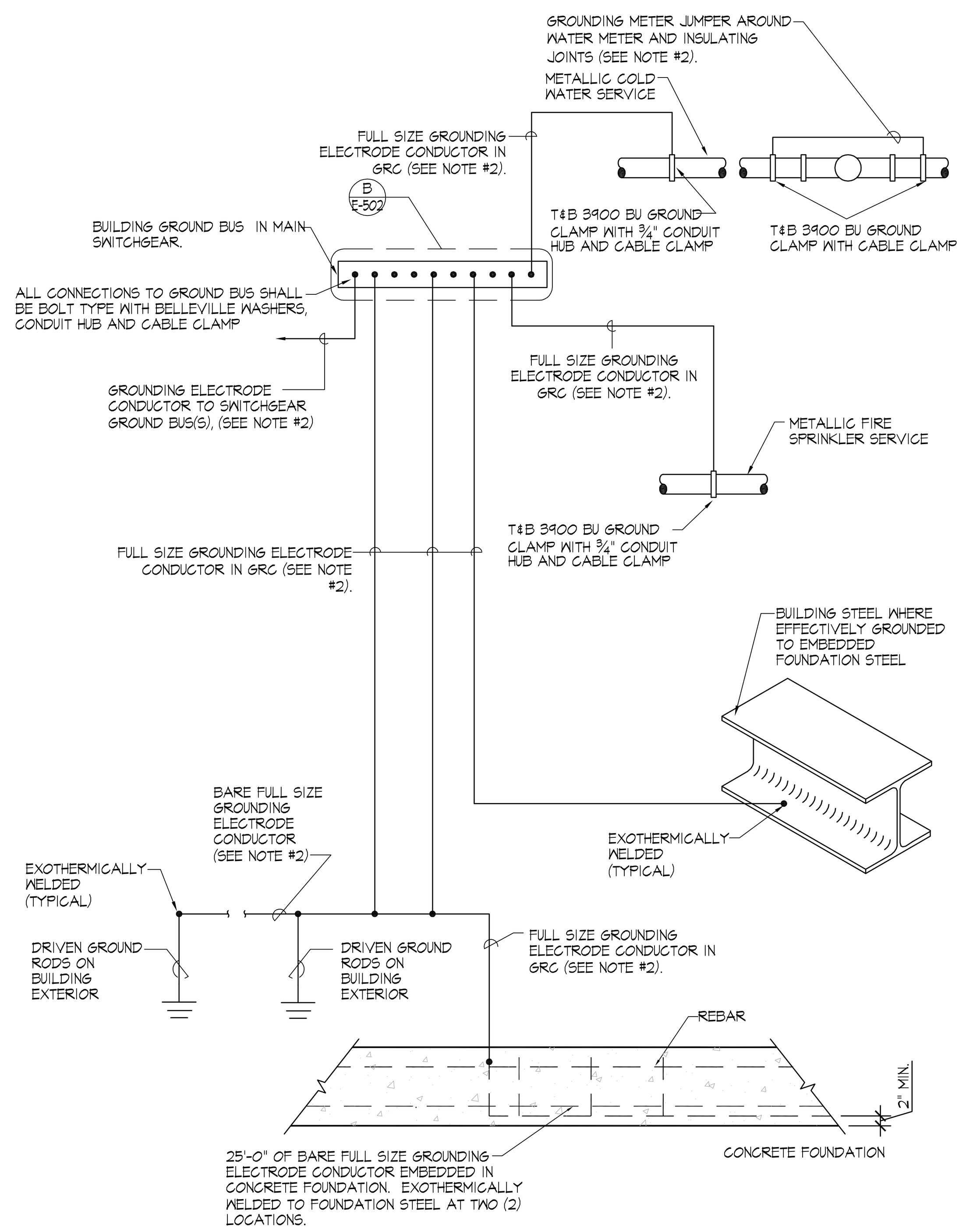
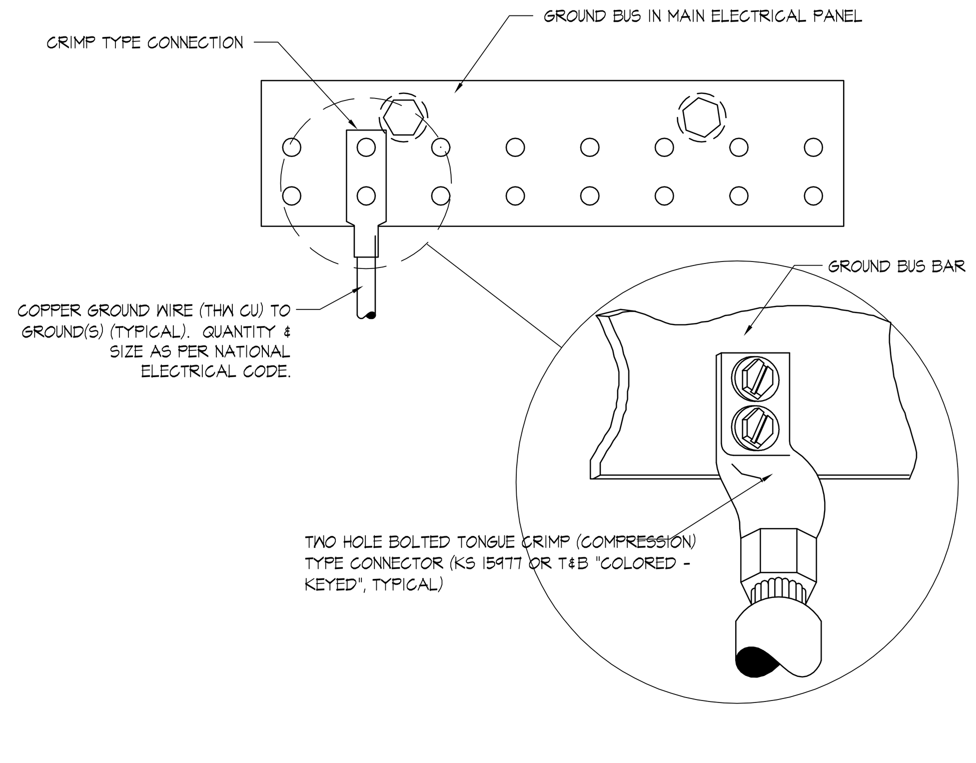
By: khaacke; Dec 15, 2009 - 11:55 AM, Date Plotted: Dec 15, 2009 - 11:55 AM X:\Projects\2009\09194.00.01 - UTNG Armory Remodel Filmore\E-501-E-502 - 09194.01.dwg

NOTES:

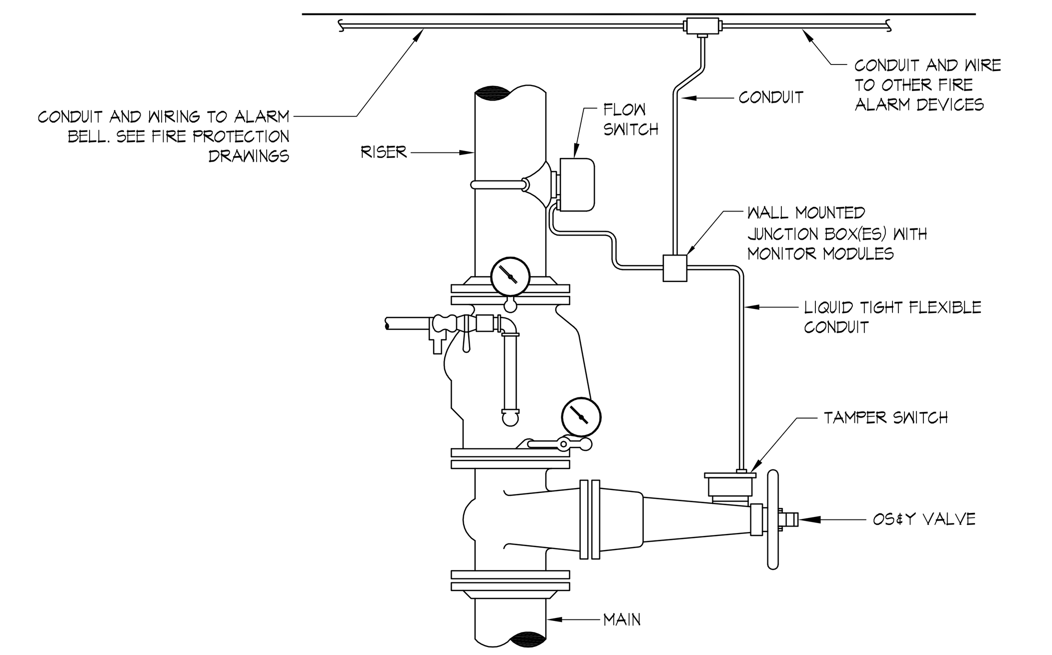
1. PROVIDE AND INSTALL ALL GROUNDING MEANS INDICATED. ELECTRICAL CONTRACTOR TO COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND PROVIDE AND INSTALL ALL GROUNDING METHODS THAT ARE AVAILABLE FOR THIS PROJECT.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL ONE LINE DIAGRAM FOR GROUNDING ELECTRODE CONDUCTOR SIZE. GROUNDING CONDUCTOR SIZE SHOWN ON THE ONE LINE DIAGRAM SHALL BE THE SAME FOR ALL METHODS OF GROUNDING SHOWN IN THIS DETAIL. ELECTRICAL CONTRACTOR SHALL REFER TO ELECTRICAL SPECIFICATIONS FOR SPECIFICS OF GROUNDING SYSTEM INSTALLATION AND MATERIALS.



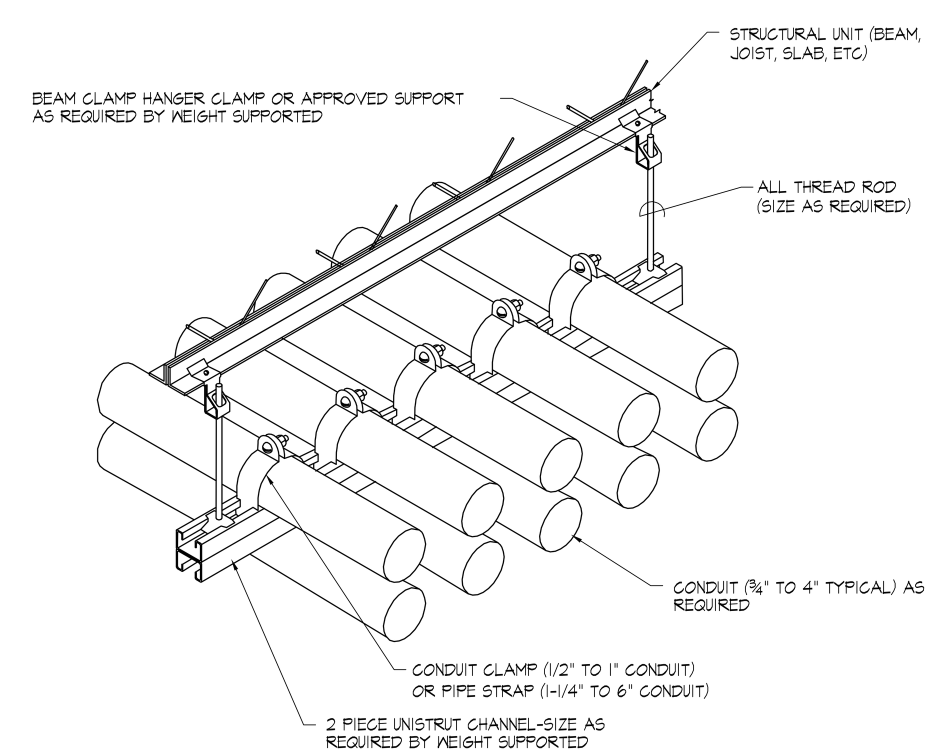
A SERVICE GROUNDING DETAIL
E-502



B SERVICE BUS GROUNDING DETAIL
E-502



C FIRE SPRINKLER RISER CONNECTION
E502



D CONDUIT RACK DETAIL
E-502

SWITCHBOARD SCHEDULE

PANEL: MDP
VOLTAGE: 208 Y/ 120 PHASE: 3
MOUNTING: SURFACE WIRE: 4
ENCLOSURE: NEMA 1
MOUNTING: SURFACE
LOCATION: MECHANICAL ROOM
REMARKS: NEW PANELBOARD

BUS AMPS: 600
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRANT AMPS: NA
MAIN BUS BRACING (AMPS RMS SYM): 65,000

CKT. NO.	DESCRIPTION	DESIGN KVA	DESIGN FLA	DEMAND KVA	DEMAND FLA	O.C. DEVICE POLES	SWITCH SIZE	FUSE SIZE
1	PANELBOARD 'A'	6.8	18.8	6.8	18.8	3		
2	PANELBOARD 'B' & 'C'	64.8	180.0	64.8	180.0	3	225	250
3	PANELBOARD 'K'	28.8	80.0	28.8	80.0	3	100	100
4	PANELBOARD 'M'	38.5	106.8	38.5	106.8	3	100	100
5	RTU-1	26.4	73.3	26.4	73.3	3	100	100
6	ERV-1	14.0	38.8	14.0	38.8	3	50	100
7	SPACE							
8	SPACE							

DESIGN KVA: 179.3 DESIGN FLA: 497.7
DEMAND KVA: 179.3 DEMAND FLA: 497.7

PANEL SCHEDULE

PANEL: A
VOLTAGE: 208 / 120 PHASE: 3
MOUNTING: SURFACE WIRE: 4
ENCLOSURE: NEMA 1
REMARKS: NEW PANELBOARD

BUS AMPS: 225
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRENT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)

USE
E = Equipment Load M = Motor Load
L = Lighting Load K = Kitchen Equipment
R = Receptacle Load

BREAKER No.	AMPS	POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE (VA) ΦA	ΦB	ΦC	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	No.
1	20	1		RECEPTACLES	¾"	#12	#12	R	1,260	2,160			900	R	#12	#12	¾"	RECEPTACLES		1	20	2
3	20	1		RECEPTACLES	¾"	#12	#12	R	1,260		1,860		600	E	#12	#12	¾"	EWC	C	1	20	4
5	20	1		FACP	¾"	#12	#12	E	500			2,290	1,790	L	#12	#12	¾"	LIGHTING		1	20	6
7	20	1		SPARE														SPARE		1	20	8
9	20	1		SPARE														SPARE		1	20	10
11	20	1		SPARE														SPARE		1	20	12
13	20	1		SPARE														SPARE		1	20	14
15	20	1		SPARE														SPARE		1	20	16
17	20	1		SPARE														SPARE		1	20	18
19	20	1		SPARE														SPARE		1	20	20
21	20	1		SPARE														SPARE		1	20	22
23	20	1		SPARE														SPARE		1	20	24
25	20	1		SPARE														SPARE		1	20	26
27	20	1		SPARE														SPARE		1	20	28
29	20	1		SPARE														SPARE		1	20	30
31				SPACE														SPACE				32
33				SPACE														SPACE				34
35				SPACE														SPACE				36
37				SPACE														SPACE				38
39				SPACE														SPACE				40
41				SPACE														SPACE				42

	ΦA	ΦB	ΦC	DEMAND
LIGHTING LOAD (VA)	0	0	1,790	1,790
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				448
RECEPTACLE LOAD PER NEC 220.44 (VA)	2,160	1,260	0	3,420
EQUIPMENT LOAD (VA)	0	600	500	1,100
25% LARGEST MOTOR (VA)				0
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100%	0	0	0	0
TOTAL LOAD (VA)	2,160	1,860	2,290	6,758
TOTAL LOAD (AMPS):	18	16	19	19

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) PROTECTION.
C. PROVIDE GFCI PROTECTION.

PANEL SCHEDULE

PANEL: M
VOLTAGE: 208 / 120 PHASE: 3
MOUNTING: SURFACE WIRE: 4
ENCLOSURE: NEMA 1
REMARKS:

BUS AMPS: 225
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRENT AMPS: N/A
MINIMUM EQUIPMENT RATING: 22,000 AMPS (RMS-SYM)

USE
E = Equipment Load M = Motor Load
L = Lighting Load K = Kitchen Equipment
R = Receptacle Load

BREAKER No.	AMPS	POLE	KEYED NOTE	CIRCUIT NAME	FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE (VA) ΦA	ΦB	ΦC	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	No.
1	20	3		CU-1	¾"	#12	#12	E	1,200	3,601			2,401	E	#10	#10	¾"	CU-2		3	30	2
3	---	---		--------------------	---	#12	---	E	1,200		3,601		2,401	E	---	#10	---	--------------------		---	---	4
5	---	---		--------------------	---	#12	---	E	1,200			3,601	2,401	E	---	#10	---	--------------------		---	---	6
7	20	3		CU-3a	¾"	#12	#12	E	1,801	1,801								SPARE		3	20	8
9	---	---		--------------------	---	#12	---	E	1,801		1,801							--------------------		---	---	10
11	---	---		--------------------	---	#12	---	E	1,801			1,801						--------------------		---	---	12
13	20	3		CU-4	¾"	#12	#12	E	1,141	2,942			1,801	E	#12	#12	¾"	CU-5		3	20	14
15	---	---		--------------------	---	#12	---	E	1,141		2,222		1,081	E	---	#12	---	--------------------		---	---	16
17	---	---		--------------------	---	#12	---	E	1,141			2,222	1,081	E	---	#12	---	--------------------		---	---	18
19	20	1		FURNACE F-5	¾"	#12	#12	M	1,200	2,400			1,200	M	#12	#12	¾"	FURNACE F-4		1	20	20
21	20	1		FURNACE F-1	¾"	#12	#12	M	1,200		2,400		1,200	M	#12	#12	¾"	FURNACE F-3		1	20	22
23	20	1		FURNACE F-2	¾"	#12	#12	M	1,200			1,200						SPARE		1	20	24
25	20	1		EXISTING CKTS	¾"	#12	#12	R	1,000	2,000			1,000	R	#12	#12	¾"	RECEPTACLES		1	20	26
27	20	1		EXISTING CKTS	¾"	#12	#12	R	1,000		2,000		1,000	R	#12	#12	¾"	RECEPTACLES		1	20	28
29	20	1		EXISTING CKTS	¾"	#12	#12	R	1,000			2,000	1,000	R	#12	#12	¾"	RECEPTACLES		1	20	30
31	20	2		AC-1		#12	#12	E	801	1,801			1,000	R	#12	#12	¾"	RECEPTACLES		1	20	32
33	--	--		--------------------	--	#12	--	E	801		801							SPARE		1	20	34
35	20	1		SPARE														SPARE		1	20	36
37	20	1		SPARE														SPARE		1	20	38
39	20	1		SPARE														SPARE		1	20	40
41	20	1		SPARE														SPARE		1	20	42

	ΦA	ΦB	ΦC	DEMAND
LIGHTING LOAD (VA)	0	0	0	0
LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)				0
RECEPTACLE LOAD PER NEC 220.44 (VA)	3,000	2,000	2,000	7,000
EQUIPMENT LOAD (VA)	11,545	10,825	8,824	31,194
25% LARGEST MOTOR (VA)				300
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100%	0	0	0	0
TOTAL LOAD (VA)	14,545	12,825	10,824	38,494
TOTAL LOAD (AMPS):	121	107	90	107

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) PROTECTION.
C. PROVIDE GFCI PROTECTION.

PANEL SCHEDULE

PANEL: K
VOLTAGE: 208 / 120 PHASE: 1
MOUNTING: FLUSH WIRE: 3
ENCLOSURE: NEMA 1
REMARKS: NEW PANELBOARD

BUS AMPS: 100
MAIN OVERCURRENT DEVICE: LUGS
MAIN OVERCURRANT AMPS: N/A
MINIMUM EQUIPMENT RATING: 10,000 AMPS (RMS-SYM)

USE
E = Equipment Load M = Motor Load
L = Lighting Load K = Kitchen Equipment
R = Receptacle Load

BREAKER NO.	AMPS	POLE	KEYED NOTE	DESCRIPTION	FEEDER C	WIRE	GRD	CKT. LOAD USE	WATTS	LOAD/PHASE(VA) ΦA	ΦB	CKT. LOAD WATTS	USE	FEEDER GRD	WIRE	C	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	AMPS	NO.
1	20	1		EXISTING CKT	¾"	#12	#12	E	1,000	2,000		1,000	E	#12	#12	¾"	EXISTING CKT		1	20	2
3	20	1		EXSITING CKT	¾"	#12	#12	E	1,000		2,000	1,000	E	#12	#12	¾"	EXSITNG CKT		1	20	4
5	20	1		EXSITING CKT	¾"	#12	#12	E	1,000	2,000		1,000	E	#12	#12	¾"	EXISITNG CKT		1	20	6
7	20	1		EXSITING CKT	¾"	#12	#12	E	1,000		2,000	1,000	E	#12	#12	¾"	EXISITNG CKT		1	20	8
9	20	1		SPARE													SPARE		1	20	10
11	20	1		SPARE													SPARE		1	20	12
13	20	1		SPARE													SPARE		1	20	14
15	20	1		SPARE													SPARE		1	20	16
17	20	1		SPARE													SPARE		1	20	18
19	20	1		SPARE													SPARE		1	20	20
21	50	2		SPARE													SPARE		2	50	22
23	--	--		--------------------													--------------------		--	--	24

	ΦA	ΦB	DEMAND
LIGHTING LOAD (VA)	0	0	0
LIGHTING CONTINUOUS LOAD (VA)			0
RECEPTACLE LOAD PER NEC 220.13(VA)	0	0	0
EQUIPMENT LOAD (VA)	4,000	4,000	8,000
25% LARGEST MOTOR			0
KITCHEN EQUIPMENT LOAD (VA) 0 UNITS @ 100% (PER NEC TABLE 220.56)	0	0	0
TOTAL LOAD (VA)	4,000	4,000	8,000
TOTAL LOAD (AMPS):	33	33	38

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
2. RECEPTACLE LOAD CALCULATED AS PER SECTION 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".

KEYED NOTES:
A. LOCK-ON BREAKER.
B. PROVIDE ARC FAULT (AFCI) PROTECTION.
C. PROVIDE GFCI PROTECTION.

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BUILDING NAME:
FILLMORE ARMORY
UTAH NATIONAL GUARD

PROJECT TITLE:
FILLMORE ARMORY REMODEL

MARK	DATE	DESCRIPTION

ISSUE TYPE: CONST. DOCUMENT SET
ISSUE DATE: 12/14/2009
DFCM PROJECT NO: 09242470
PVE PROJECT NO: 09194.00.01
CAD DWG FILE: E-501-E-502 - 09194.01
DESIGNED BY: KJH
CHK'D BY: RKR
COPYRIGHT: STATE OF UTAH

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-502

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