AASF AVIATION COMPLEX

INTERIOR REMODEL

UTAH NATIONAL GUARD
7602 AIRPORT ROAD
WEST JORDAN, UTAH 84084

ABBREVIATIONS

Act.	Accoustic Ceiling Tile
Alt.	Alternate
Alum.	Aluminum
A.B.	Anchor Bolt
&	And
Arch.	Architectural
@	At or At The
Bm.	Beam
Blk.	Block
Blkg.	Blocking
Bd.	Board
Bot.	Bottom
Bldg.	Building
Cpt.	Carpet
Clkg.	Caulking
C.I.	Cast Iron
Clg.	Ceiling
Cem.	Cement
Ctr.	Center
C	Center Line
Cer.	Ceramic
C.T.	Ceramic Tile
Clr.	Clear (ance)
Clo.	Closet
Col.	Column
Conc.	Concrete
CMU	Concrete Masonry Unit
CMP	Corrugated Metal Pipe
Conn.	Connection
Constr.	Construction
Cont.	Continue/Continuous
Contr.	Contractor
C.J.	Control Joint
Corr.	Corridor
Cntr.	Counter
Csnk.	Countersunk
Det.	Detail
Dept.	Department
Dia.	Diameter
Dim.	Dimension
Dn.	Down
D.S.	Downspout
Dwg.	Drawing
D.F.	Drinking Fountain
E.	East
Ea.	Each
Elec.	Electric (al)
Elev./El.	Elevation
Exist.	Existing
Eq.	Equal
Equip.	Equipment
Exist.	Existing
Exp.	Expansion
Ext.	Exterior
Fin.	Finish
F.A.	Fire Alarm
F.E.	Fire Extinguiser
F.E.C.	F.E. Cabinet
Flr./Fl.	Floor
F.D.	Floor Drain
F.O.S.	Face of Stud
F.O.W.	Face of Wall
Ftg.	Footing
Fdn.	Foundation
F.F.	Finish Floor
Galv	Galvanized
G.I.	Galvanized Iron
Ga.	Gauge
Gl.	Glass
Gr.	Grade
Gnd.	Ground
Gyp. Bd.	Gypsum Board
GWB	Gypsum Waterproof Board
H.D.P.E.	High Density Polyethylene
HG#	Hardware Group #
Hdwd.	Hardwood
Ht.	Height
H.P.	High Point
Horiz.	Horizontal
H.B.	Hose Bibb
H.M.	Hollow Metal
Hr.	Hours (Fire Rating)
In.	Inch
I.D.	Inside Diameter
Insul.	Insulation
Int.	Interior
I.E.	Invert Elevation
Inv.	Invert Elevation
Jan.	Janitor
Jt.	Joint
J-Box	Junction Box
Kit.	Kitchen
Lam.	Laminate
Lav.	Lavatory
Lt.	Light
L.P.	Low Point
Matl.	Material
Mas.	Masonry
Maint.	Maintenance
Mfr.	Manufacturer
M.H.	Manhole
M.O.	Masonry Opening
Max.	Maximum
Mech.	Mechanical
Memb.	Membrane
Men	Men's Toilet
Mtl./Met.	Metal
Min.	Minimum
Mir.	Mirror
Misc.	Miscellaneous
Mtd.	Mounted
Mul.	Mullion
Nom.	Nominal
N.	North
N.I.C.	Not In Contract
N.T.S.	Not To Scale
No. or #	Number
Off.	Office
O.C.	On Center
Opng.	Opening
Opp.	Opposite
Opp. H.	Opposite Hand
O.D.	Outside Diameter
O.R.D.	Overflow Roof Drain
Ptd.	Painted
-E Ptd.	Epoxy Painted
Pr.	Pair
Part.	Partition
Ped.	Pedestrian
Plas.	Plaster
P. Lam.	Plastic Laminate
Pl.	Plate
Plywd.	Plywood
Pt.	Point
Q.T.	Quarry Tile
Rad.	Radius
R.B.	Rubber Base
R.W.L.	Rain Water Leader
R.F.F.	Reference Finish Floor
Refl.	Reflected
Reinf.	Reinforcing
Req.	Required
Ret.	Retaining
Rev.	Revised
R.	Riser
R.D.	Roof Drain
Rm.	Room
R.O.	Rough Opening
Sched.	Schedule
Seal.	Sealant
Sect.	Section
S.Sk.	Service Sink
Sht.	Sheet
Sim.	Similar
Sl./Slp.	Slope
S.C.	Solid Core
Spec.	Specifications
Sq.	Square
Std.	Standard
Stl.	Steel
Stor.	Storage
Struct	Structural/Structure
Sym.	Symmetrical
T.B.R.	To be Removed
Tel.	Telephone
Temp.	Temporary/Tempered
Thk.	Thick (ness)
T & G	Tongue and Groove
T/Conc	Top of Concrete
T/Curb	Top of Curb
T.O. FTG.	Top of Footing
T.O.P.	Top of Plate
T/Wall	Top of Wall
T.	Tread
Typ.	Typical
Unf.	Unfinished
U.N.O.	Unless Noted Otherwise
Var.	Vary or Varies
Vert.	Vertical
V.T.R.	Vent Through Roof
VCT	Vinyl Composition Tile
w/	With
W.A.S.	Welded Anchor Stud
Wd.	Wood
Wp.	Waterproof
Wsct.	Wainscot
w/o	Without
W.P.	Working Point
W.R.	Water Resistant
W.I.	Wrought Iron

MATERIALS LEGEND

EARTH
GRAVEL
SAND
CONCRETE
CMU
CAST STONE
BRICK
NATURAL STONE
WOOD (BLOCKING)
PLYWOOD
WOOD FRAMING
WOOD FINISH
STEEL
BATT INSULATION
COMPRESSIBLE FILLER
RIGID INSULATION
FENCE
BACKER ROD AND FILLER

GRAPHIC SYMBOLS

DTL.# / SHT.# — BLDG. ELEV. SYMB.
RM. NAME / RM. # / F/S | W/W — RM. NAME/NUMB RM. FINISH SYMB.
DTL.# / SHT.# — BLDG. SECT. SYMB.
XXX — CEIL. FINISH/ELEV. SYMB.
DTL.# / SHT.# — WALL SECT. SYMB.
DTL.# / SHT.# — DETAIL REF. SYMB.
DTL.# / SHT.# — INTR. ELEV. SYMB.
T.O. ELEV — DATUM PT. SYMB.
DR.# / HW.# — DOOR/HDWR. SYMB.
ELEV — SPOT ELEV. SYMB.

CODE REVIEW

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guidelines	1997
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: B, S2
Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: ____ Design Wind Speed: ____ 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: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: ____ Nonseparated Uses: ____

F: Sprinklers:
Required: NO Provided: NO Type of Sprinkler System: N/A

G: Number of Stories: 1 Building Height: B = 12'-6", S2=40'-0"

H: Actual Area per Floor (square feet): B=40,582 SF, S2=10,434 SF

I: Tabular Area: B=24,000 SF, S2=26,000 SF

J: Area Modifications:

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

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:
1) One Story: B = .02, S2 = .33
2) Two Story: A_a(2) N/A
3) Three Story: A_a(3) N/A

d) Unlimited Area Building: Yes ____ No ____ Code Section: ____

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

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	--	Floors - Ceiling Floors	0	
Interior Bearing Walls	0	--	Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0	--	Exterior Doors and Windows	0	
Structural Frame	0	--	Shaft Enclosures	0	NONE
Partitions - Permanent	0	--	Fire Walls	2 HR	EXIST.
Fire Barriers	1	EXIST.	Fire Partitions	--	
			Smoke Partitions	--	

L. Design Occupant Load: ____
Exit Width Required: ____ Exit Width Provided: ____

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required 10 Provided (m) 6 (f) 4
b) Lavatories - Required (m) 7 Provided (m) 6 (f) 3
c) Bath Tubs or Showers: 7
d) Drinking Fountains: 3 Service Sinks: 2

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - 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.

DRAWING INDEX

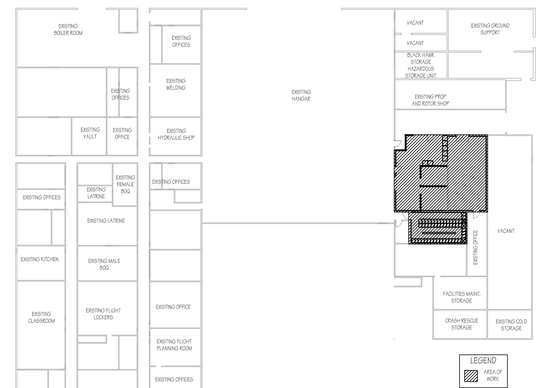
PROJECT DIRECTORY

ARCHITECT
HFS Architects
329 RIO GRANDE
Salt Lake City, Utah 84101
801-596-0691/Fax 801-596-0693

ELECTRICAL ENGINEER
Electrical Engineering and Lighting Design
1220 South 300 West
Salt Lake City, Utah 84101
801-486-2222/Fax 801-474-3353

MECHANICAL ENGINEER
David L. Jensen
547 West 500 South
Bountiful, Utah 84010
801-294-9299/Fax 801-294-9399

STRUCTURAL ENGINEER
Calder Richards Engineering
2015 South 1100 East
Salt Lake City, Utah 84106
801-328-2726/Fax 801-467-2495



A AVIATION COMPLEX PLAN
SCALE: 1"=30'-0"

N

HFSArchitects
ARCHITECTURE
INTERIORS
PLANNING
1484 South State Street
Salt Lake City, Utah 84115
801-596-0691/F: 596-0693
www.hfsa.com

CONSULTANT

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MARK	DATE	DESCRIPTION

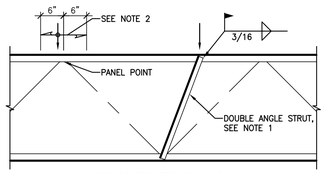
DATE:	MAY 11 2007
PROJECT NO:	07061480
HFSA PROJECT NO:	0715.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

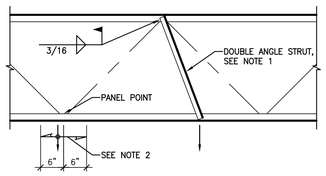
TITLE SHEET, GENERAL INFO. & SHEET INDEX

G101

SHEET 1 OF



CONCENTRATED LOADS ON
TOP CHORD OF JOISTS



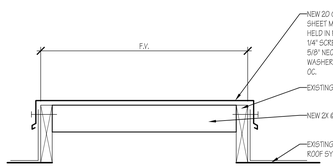
CONCENTRATED LOADS ON
BOTTOM CHORD OF JOISTS

NOTES:

1. PROVIDE DOUBLE ANGLE STRUTS BETWEEN CONCENTRATED LOAD AND PANEL POINT ON OPPOSITE CHORD WHERE CONCENTRATED LOADS EXCEED 150#. ANGLE STRUTS SHALL BE AS FOLLOWS:

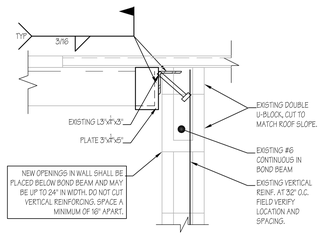
DEPTH OF JOIST	ANGLE SIZE
UP TO 30"	(2) L1½x1½x¼
30" TO 48"	(2) L2x2x¼
48" TO 60"	(2) L2½x2½x¼

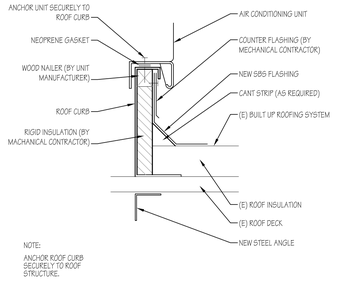
2. WHERE CONCENTRATED LOADS OCCUR WITHIN 6" OF PANEL POINT, NO STRUT IS REQUIRED.



E2 EXISTING CURB DETAIL

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

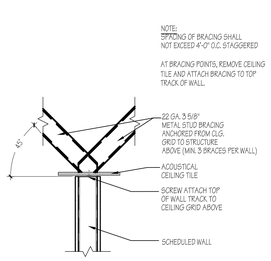




NOTE:
ANCHOR ROOF CURB SECURELY TO ROOF STRUCTURE.

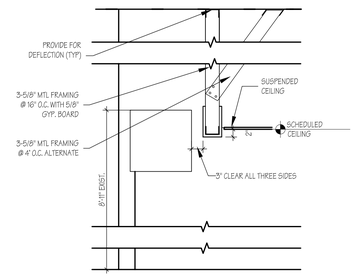
E3 NEW CURB FLASHING DETAIL

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



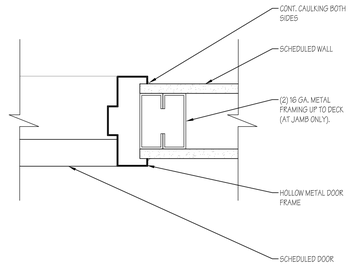
E4 DOOR FRAMES & TYPES

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



E5 DOOR SCHEDULE

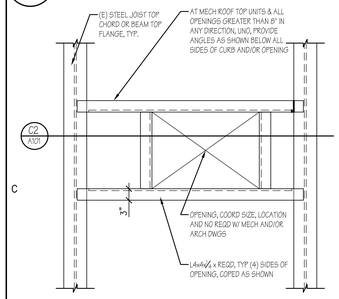
SCALE: 1/4"=1'-0"



DOOR NO.	ROOM NAME	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB
102	OFFICE	3'-0"	7'-0"	1 3/4"	A	SOWD	STAIN	1	HM	PAINT	D5/A101	D5/A101
103	OFFICE	3'-0"	7'-0"	1 3/4"	A	SOWD	STAIN	1	HM	PAINT	D5/A101	D5/A101

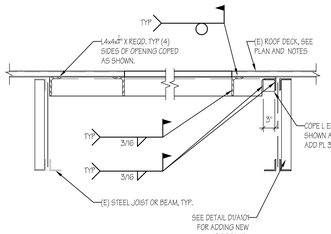
D1 STRUCTURAL DETAIL

NTS



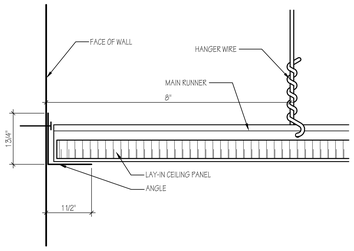
D2 DECK BEARING

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



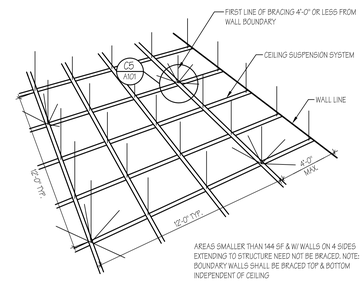
D3 WALL BRACING DETAIL

SCALE: 1"=1'-0"



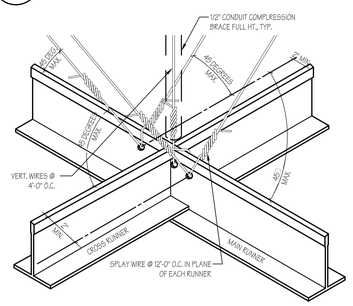
D4 HEADER DETAIL

SCALE: 3/4"=1'-0"



D5 DOOR JAMB DETAIL (HEAD SIM.)

SCALE: 3"=1'-0"



C1 STRUCTURAL DETAIL

SCALE: NTS

C2 STRUCTURAL DETAIL

SCALE: NTS

C3 SUSPENDED CEILING EDGE DETAIL

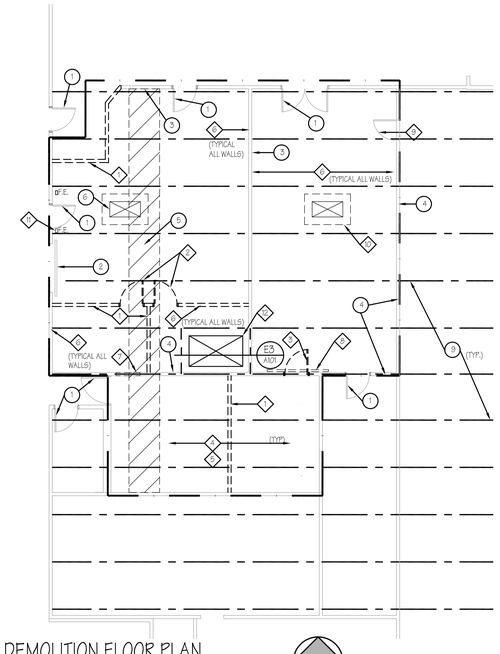
SCALE: 6"=1'-0"

C4 TYPICAL SUSPENDED CEILING DETAIL

NTS

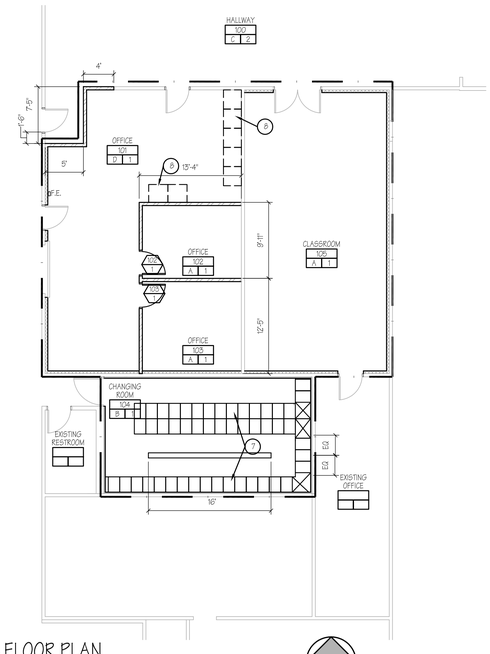
C5 TYPICAL SUSPENDED CEILING DETAIL

NTS



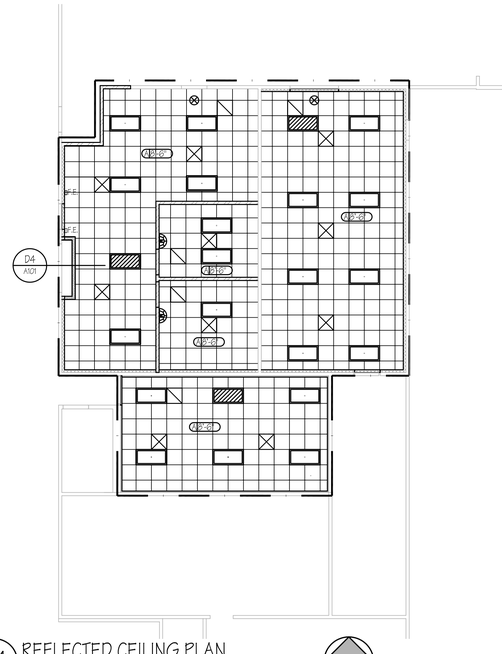
A1 DEMOLITION FLOOR PLAN

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



A3 FLOOR PLAN

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



A4 REFLECTED CEILING PLAN

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

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND PREPERATION WORK AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPER JOB. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY EXTENT OF REQUIRED DEMOLITION AND PREPERATION WORK. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL DEMOLITION ITEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL LAWS.

B. ALL ITEMS NOT INDICATED FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED. ANY ITEMS DAMAGED SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.

C. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES & COORDINATE.

DEMOLITION KEYED NOTES

1. REMOVE EXISTING GYPSUM BOARD AND METAL FRAMING WALL COMPLETE.
2. REMOVE EXISTING HOLLOW METAL DOOR AND FRAME AND SALVAGE TO OWNER.
3. REMOVE EXISTING HOLLOW METAL DOOR AND SALVAGE TO OWNER.
4. REMOVE EXISTING CARPET AND RUBBER BASE COMPLETE.
5. REMOVE EXISTING SUSPENDED CEILING SYSTEM.
6. REMOVE EXISTING RUBBER BASE AND PREPARE WALL FOR NEW FINISH.
7. REMOVE WALL LOUVER AND FRAME.
8. REMOVE PROJECTION SCREEN AND SALVAGE TO OWNER.
9. REMOVE HINGES AND HANDLE, SECURE DOOR TO FRAME AND PREPARE FOR FURRED WALL OVER DOOR.
10. REMOVE SWAMP COOLER. RETAIN AND PROTECT CURB AND PROVIDE NEW SHEET METAL CAP, SEE DETAIL E2/A101.
11. REMOVE FIRE EXTINGUISHER AND BRACKET AND REINSTALL IN THE SAME LOCATION.
12. REMOVE METAL DECK AND ROOFING SYSTEM AS REQUIRED FOR NEW ROOF TOP UNIT. SEE DETAILS D1/A101, D2/A101, D1/A101, C2/A101 FOR STRUCTURAL BRACING. SEE GENERAL NOTES ON THIS SHEET (A101) AND MECHANICAL FOR ADDITIONAL INFORMATION.

KEYED NOTES

1. EXISTING HOLLOW METAL DOOR AND FRAME, RETAIN AND PROTECT.
2. EXISTING CEILING OVERHEAD DOOR AND FRAME, RETAIN AND PROTECT.
3. EXISTING GYPSUM BOARD WALL, RETAIN AND PROTECT.
4. EXISTING CMU WALL, RETAIN AND PROTECT.
5. EXISTING OVERHEAD PIPE, RETAIN AND PROTECT.
6. EXISTING MECHANICAL OPENING, RETAIN AND PROTECT.
7. 18" X 24" FULL HEIGHT METAL LOCKERS AND MANUFACTURERS STANDARD BENCHES.
8. RELOCATED BENCH STOCK CABINETS.
9. EXISTING ROOF JOISTS ABOVE.

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM FINISHED FACE AND/OR CENTER LINE OF NEW AND EXISTING WALLS.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES, INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. PATCH AND REPAIR ANY DAMAGE TO ANY SURFACE, EQUIPMENT ETC. NOT IN THIS SCOPE OF WORK.

F. AT NEW ROOF TOP UNIT. PATCH AND PREPARE EXISTING BUILT-UP ROOFING SYSTEM, FLASH AS REQUIRED, SO AS TO PROVIDE A WATER TIGHT SYSTEM.

WALL SCHEDULE LEGEND

- 5/8" GYP. BD. (BOTH SIDES) OVER 3-5/8" METAL FRAMING AT 16" O.C. TO 8" ABOVE FINISHED CEILING. PROVIDE STAGGERED BRACING TO STRUCTURE ABOVE AT 4'-0" O.C. SEE DETAIL D2/A101.
- 5/8" GYP. BD. (ONE SIDE) OVER 3-5/8" METAL FRAMING AT 16" O.C. TO 6" ABOVE FINISHED CEILING.
- 5/8" GYP. BD. (ONE SIDE) OVER 1-5/8" METAL FRAMING AT 16" O.C. TO 6" ABOVE FINISHED CEILING.
- CONTRACT LIMIT LINE
- EXISTING ROOF JOISTS ABOVE

FINISH SCHEDULE

FLOOR/BASE FINISH — 0000 (A | 2) — ROOM NUMBER / WALL/FINISH

FLOOR / BASE	WALL / WAINSCOT
A. CARPET WITH RUBBER BASE.	1. PAINTED GYPSUM BOARD.
B. VCT WITH RUBBER BASE.	2. PAINT NEW GYPSUM BOARD - MATCH EXISTING.
C. EXISTING WITH RUBBER BASE.	
D. RUBBER FLOORING WITH RUBBER BASE.	

SYMBOL LEGEND

- FLUORESCENT LIGHT FIXTURE
- RETURN AIR REGISTER
- SUPPLY AIR DIFFUSER

CEILING SCHEDULE

CEILING TYPE — (E) ELEV — ELEVATION ABOVE FINISHED FLOOR

A. 2' x 2' LAY-IN ACCOUSTICAL PANEL SYSTEM. SEE DETAIL C5-C4/A101.

HFSArchitects
ARCHITECTURE
INTERIORS
PLANNING
1484 South State Street
Salt Lake City, Utah 84115
801-596-0691/F: 596-0693
www.hfsa.com

CONSULTANT

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UTAH NATIONAL GUARD
7602 AIRPORT ROAD
WEST JORDAN, UTAH 84084

MARK	DATE	DESCRIPTION

DATE:	MAY 11 2007
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SHEET TITLE

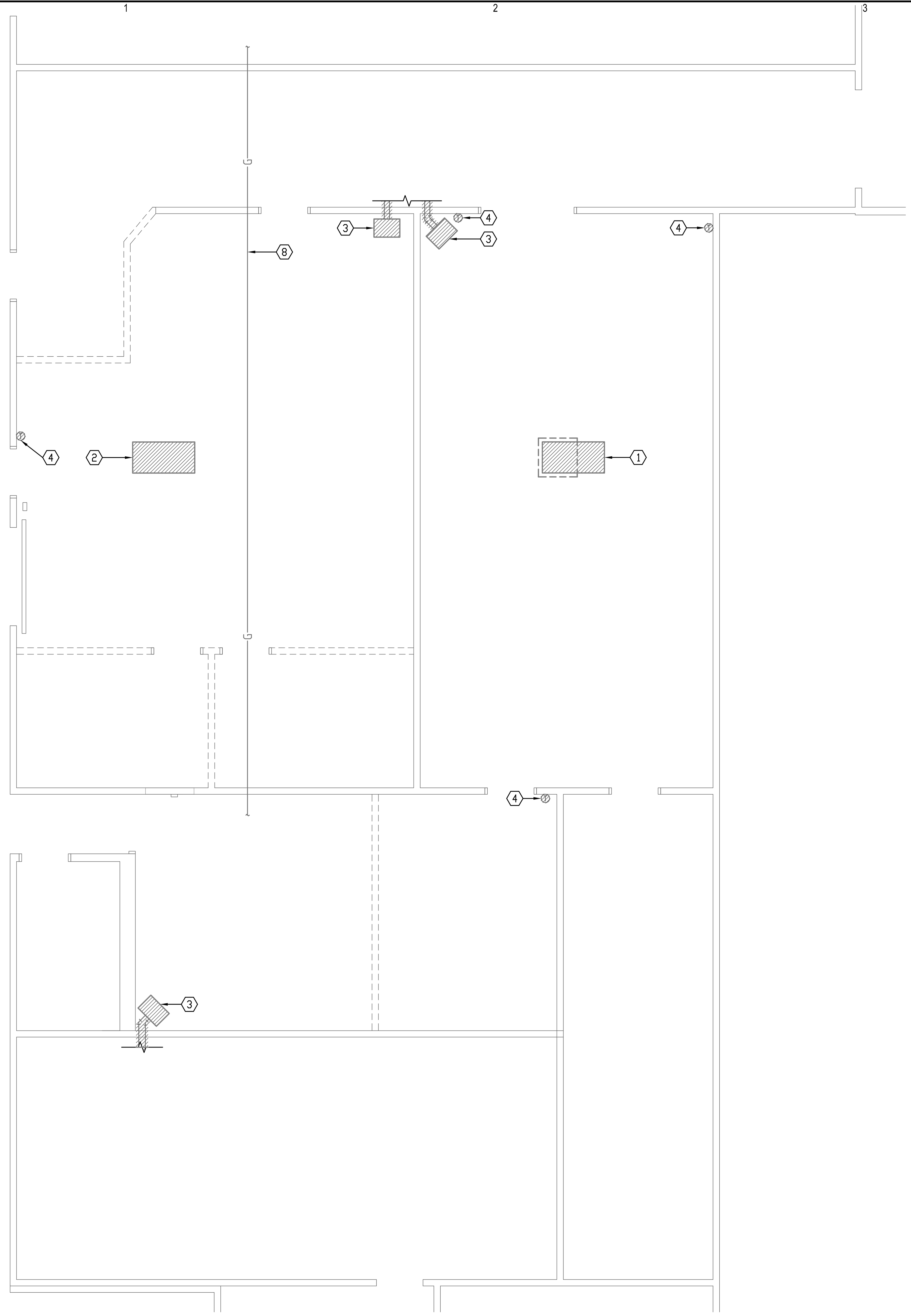
DEMO PLAN, PLAN, RCP & DETAILS

A101

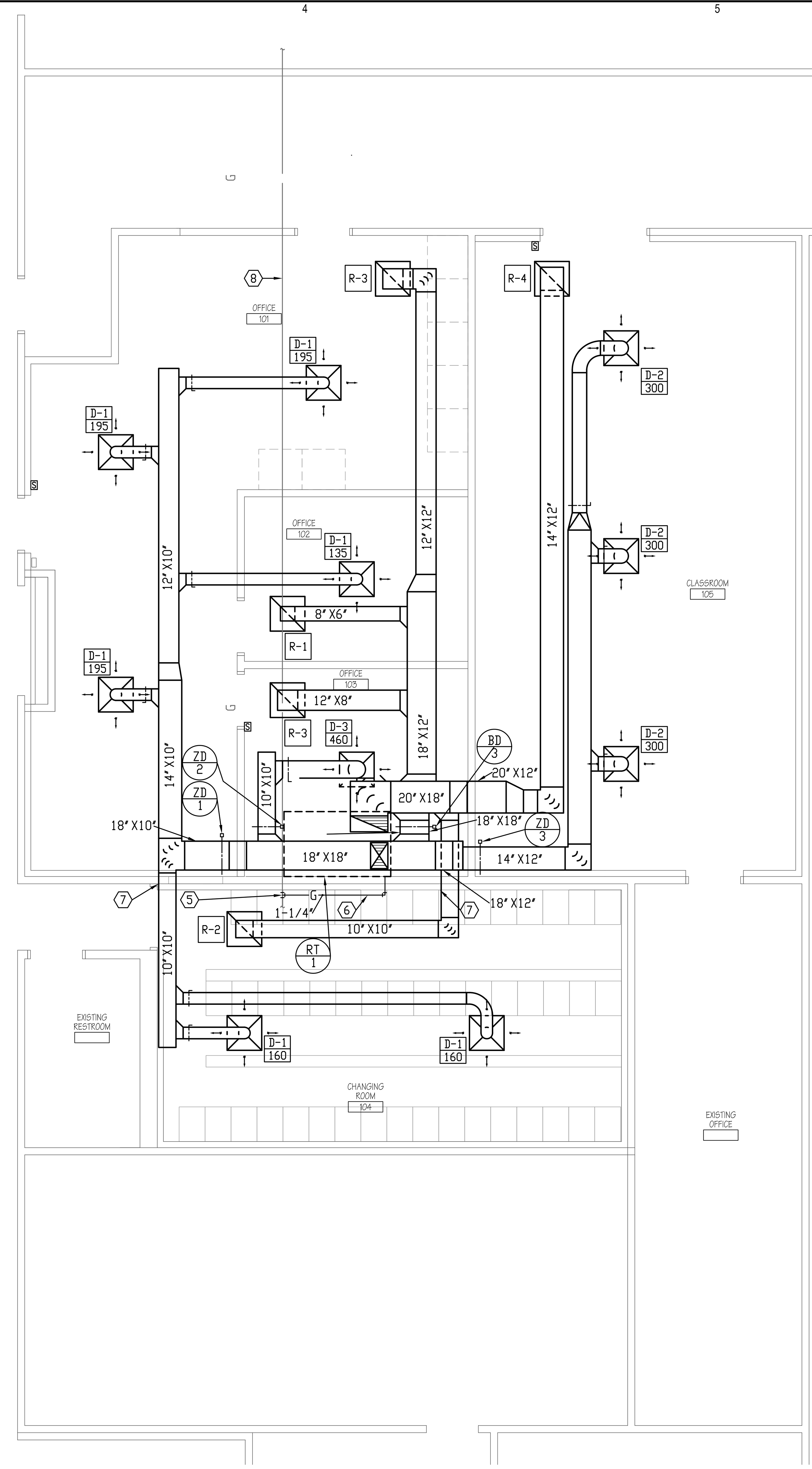
SHEET 2 OF

NOTES FOR SHEET M101

1. REMOVE EVAPORATIVE COOLER AND ASSOCIATED DAMPER, DIFFUSER, PIPING, AND CAP HOLE.
2. REMOVE RELIEF HOOD AND ALL ASSOCIATED DUCTWORK AND CAP HOLE.
3. REMOVE EXISTING UNIT HEATER AND ALL ASSOCIATED PIPING TO ABOVE THE CEILING.
4. REMOVE EXISTING THERMOSTAT.
5. CONNECT TO EXISTING GAS LINE.
6. INSTALL PRESSURE REGULATOR IF REQUIRED.
7. SEE ARCHITECTURAL DETAIL FOR INFO. REGARDING PENETRATING THE LOAD BEARING WALL.
8. GAS LINE ON ROOF.



A1 MECHANICAL DEMOLITION PLAN
1/4"=1'-0"



A3 MECHANICAL REMODEL PLAN
1/4"=1'-0"

GENERAL NOTE:

1. DIFFUSER BRANCH DUCTS SHALL BE THE SAME AS NECK SIZE ON SCHEDULE.

HFS*Architects*
ARCHITECTURE
INTERIORS
PLANNING
1484 South State Street
Salt Lake City, Utah 84115
801-596-0691/F: 596-0693
www.hfsa.com

CONSULTANT
DAVID L. JENSEN & ASSOCIATES
MECHANICAL ENGINEERS
547 WEST 500 SOUTH SUITE #140
BOUNTIFUL, UTAH 84010
PHONE: (801) 294-9299

REGISTERED PROFESSIONAL ENGINEER No. 181307 VAL L. ABERCROMBIE STATE OF UTAH

WEST JORDAN AASF
AVIATION COMPLEX
REMODEL

UTAH NATIONAL GUARD
7602 AIRPORT ROAD
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MECHANICAL DEMO PLAN

M101

ROOFTOP AIR CONDITIONING UNIT SCHEDULE ③ ④

MARK	CFM	EXT S.P. IN W.G.	HEATING ① INPUT	OUTPUT MBH ⑤	EAT DEG F	LAT DEG F	COOLING ② NOM TONS	TOTAL MBH	SENS MBH	EAT DEG F	LAT DEG F	ELECTRICAL MCA	MOCP	VOLTS	PHASE	HERTZ	WEIGHT LBS.	MINIMUM O.A. CFM
RT 1	4200	0.625	150	123	50.6	96.6	6	65.5	50	79.75	51.7	34.5	40	208	3	60	880	750

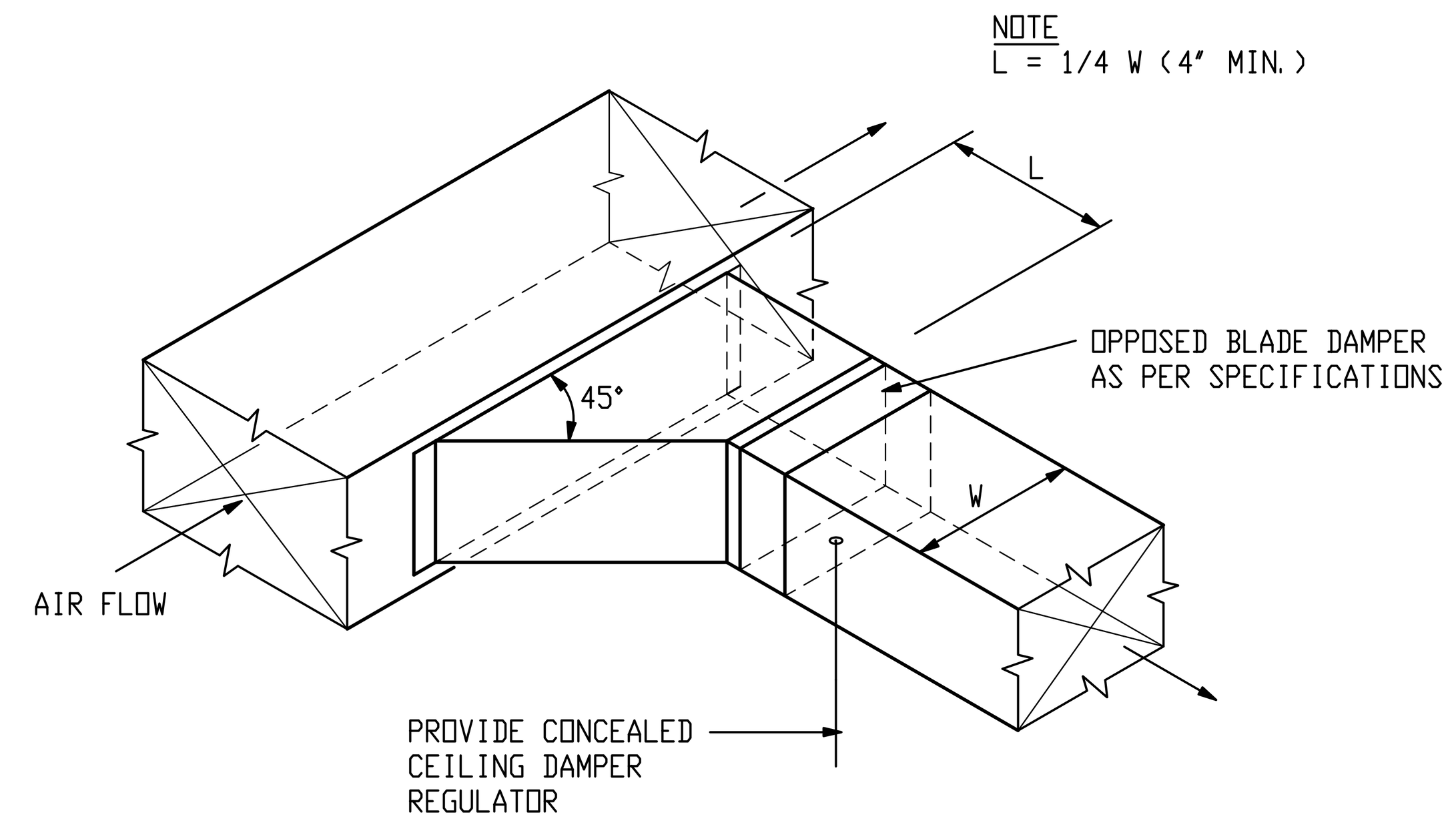
① SINGLE STAGE HEATING 2-5 TONS, TWO STAGE 6-15 TONS.
② SINGLE STAGE COOLING 2-6 TONS, TWO STAGE 7.5-15 TONS.
③ MIN OA HOOD 2-5 TONS, ECONOMIZER WITH POWER RELIEF 6-15 TONS.
④ SMOKE DETECTOR 6-15 TONS.
⑤ SEA LEVEL.

DIMENSION OF LONGEST SIDE, INCHES	② SHEET METAL GAUGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING ① MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS MIN. H, IN.	DRIVE SLIP PLAIN S SLIP RECOM-MENDED GAUGE	HEMMED S SLIP RECOM-MENDED GAUGE	ALTERNT. BAR SLIP RECOM-MENDED GAUGE	REINFOR. BAR SLIP RECOM-MENDED GAUGE
UP THRU 12	26	NONE REQ.	1	26	26	24	24
13 - 14	24	NONE REQ.	1	24	24	24	24
15 - 18	22	NONE REQ.	1	22	22	22	22
19 - 20	20	NONE REQ.	1	20	20	20	20
21 - 26	18	NONE REQ.	1	18	18	18	18
27 - 30	16	NONE REQ.	1	16	16	16	16
31 - 36	20	1-1/4" X 1-1/4" X 18GA. @ 10'	1	-	-	20	20
37 - 42	18	1-1/2" X 1-1/2" X 16GA. @ 10'	1	-	-	18	18
43 - 48	16	1-1/2" X 1-1/2" X 1/8" @ 10'	1	-	-	16	16

① TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED

② FOR OTHER GAUGE DUCT, SEE SMACNA.

4 DUCT CONSTRUCTION DETAIL
SCALE NONE



1 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE NONE

ZONE AND BYPASS DAMPER SCHEDULE

MARK	SERVICE	TYPE	MAX CFM	MIN CFM	DUCT SIZE
ZD 1	OFFICE 101, 102 AND CHANGING ROOM	ZONE	1040	160	18 X 10
ZD 2	OFFICE 103	ZONE	460	180	10 X 10
ZD 3	CLASSROOM	ZONE	900	440	14 X 12
BD 1	RT-1	BYPASS	2400	0	18 X 18

REGISTER AND GRILLE SCHEDULE ① ②

MARK	TYPE	SERVICE	CFM RANGE	NECK SIZE	MODEL
R-1	RETURN	FLOOR	135	8 X 8	TITUS 355R
R-2	RETURN	FLOOR	320	10 X 10	TITUS 355R
R-3	RETURN	FLOOR	455-590	12 X 12	TITUS 355R
R-4	RETURN	FLOOR	900	14 X 14	TITUS 355R

① MAXIMUM NC-26 @ MAXIMUM CFM.
② SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.

DIFFUSER SCHEDULE ② ③

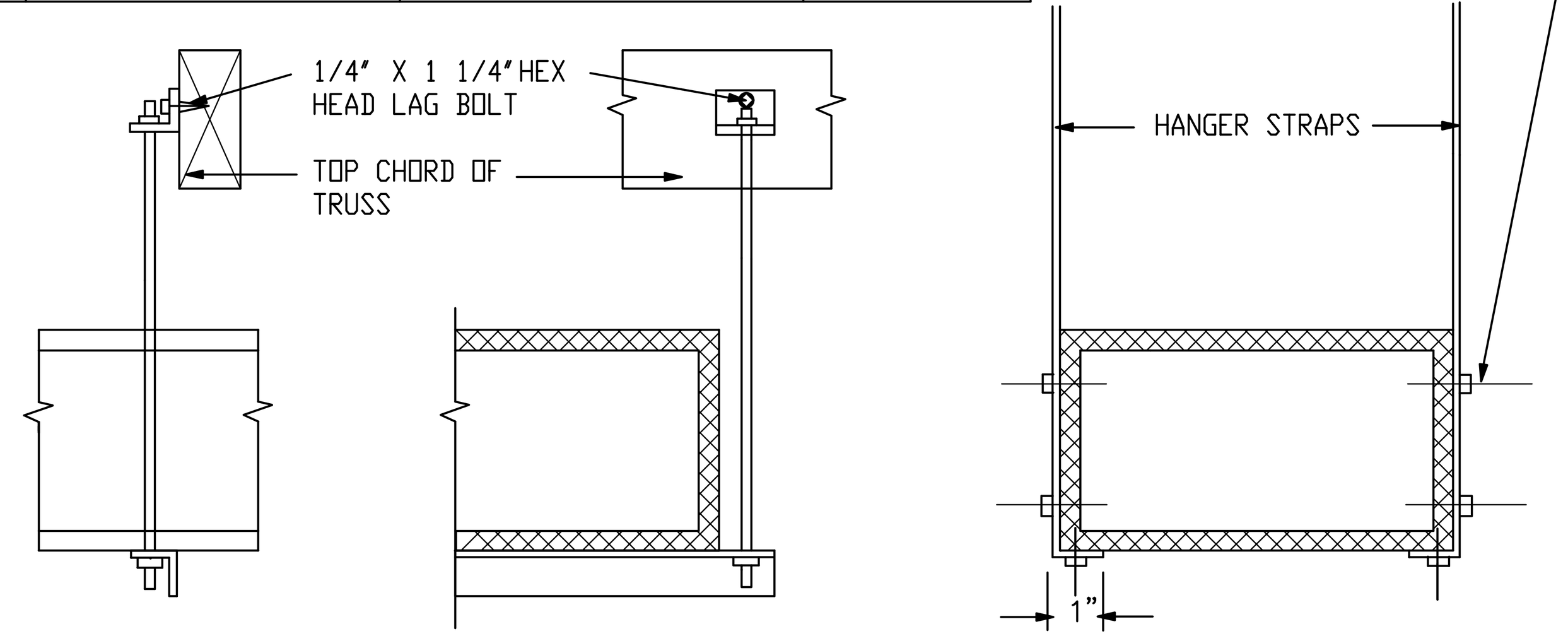
MARK	TYPE	NECK SIZE	CFM ①	COMMENT
D-1	CEILING DIFFUSER	8"	135-195	
D-2	CEILING DIFFUSER	10"	200-300	
D-3	CEILING DIFFUSER	12"	305-460	

① MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
② DIFFUSERS ARE TITUS UNLESS OTHERWISE LISTED. SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURED.
③ FINISH SHALL BE OFF-WHITE MARKED ENAMEL.

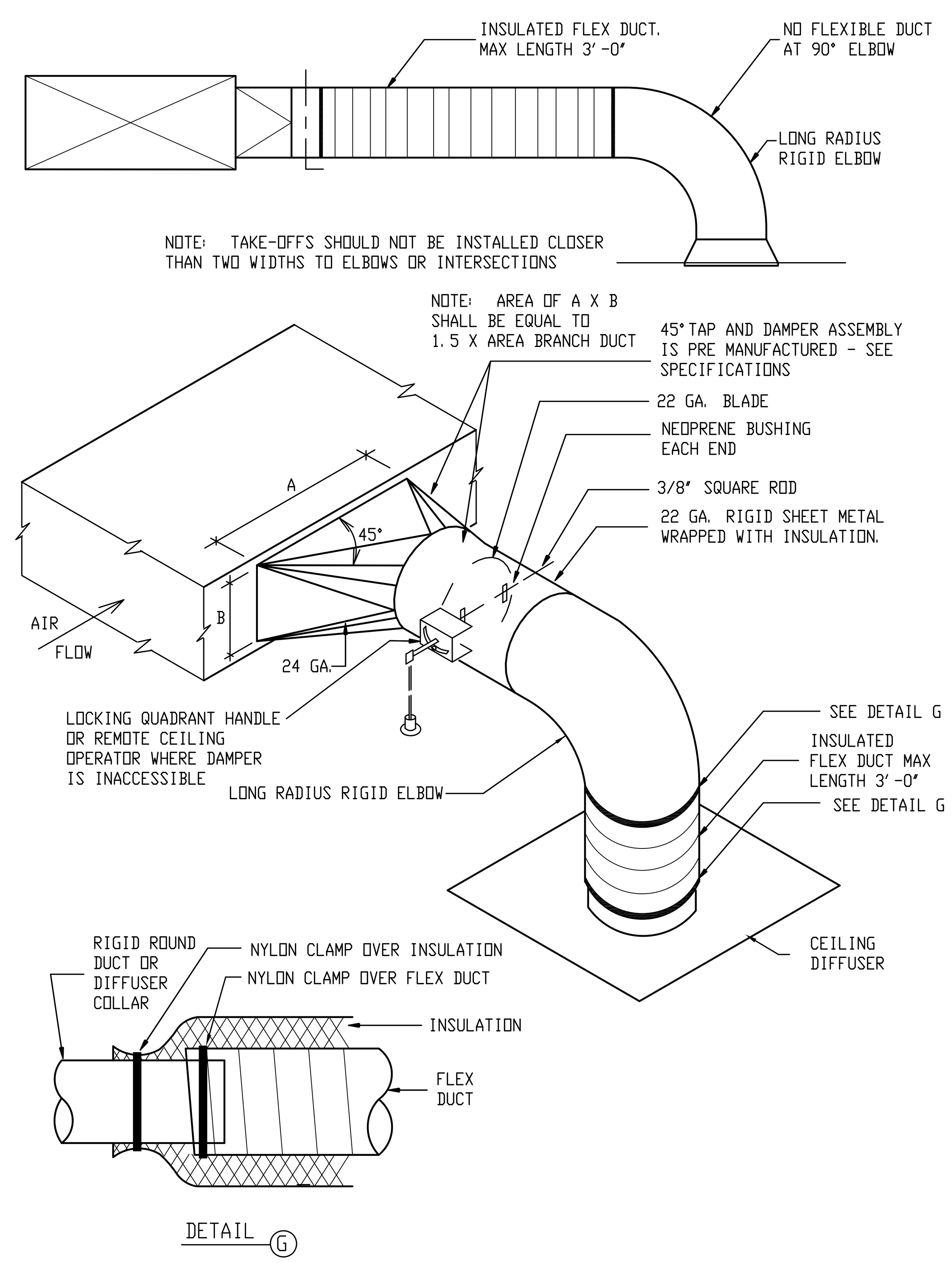
HANGER SIZES FOR RECTANGULAR DUCT

MAX. SIDE	HANGER	HORIZONTAL SUPPORT ANGLE	MAXIMUM SPACING
30"	1" WIDE 18 GAUGE 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"	8'-0"
60"	5/16" ROUND ROD	2" X 2" X 1/8"	8'-0"
84"	3/8" ROUND ROD	2" X 2" X 1/8"	8'-0"

NO POP RIVETS ALLOWED



2 DUCT STRAP HANGER DETAIL
SCALE NONE



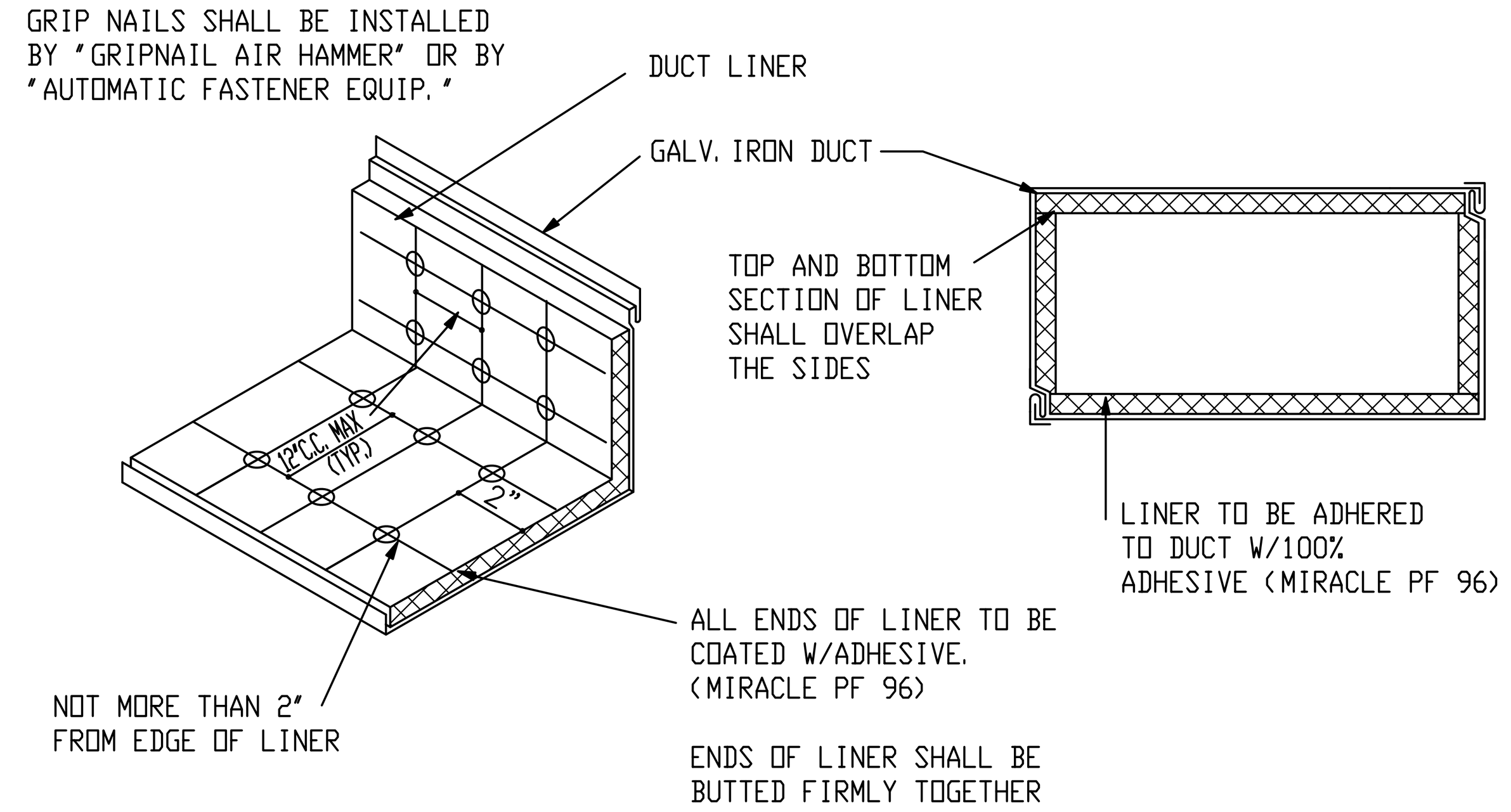
DETAIL G

5 SQUARE TO ROUND TAKE-OFF DETAIL
SCALE NONE

METAL FASTENERS:
OMARK INSUL-PINS, DURO DYNE FASTENERS OR GRIP NAILS.

GRIP NAILS SHALL BE INSTALLED BY 'GRIPNAIL AIR HAMMER' OR BY 'AUTOMATIC FASTENER EQUIP.'

NOTE:
ALL SUPPLY AIR DUCTS SHALL BE WRAPPED EXTERNALLY AS PER SPECIFICATIONS



3 DUCT LINER DETAIL
SCALE NONE

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ARCHITECTURE
INTERIORS
PLANNING
1484 South State Street
Salt Lake City, Utah 84115
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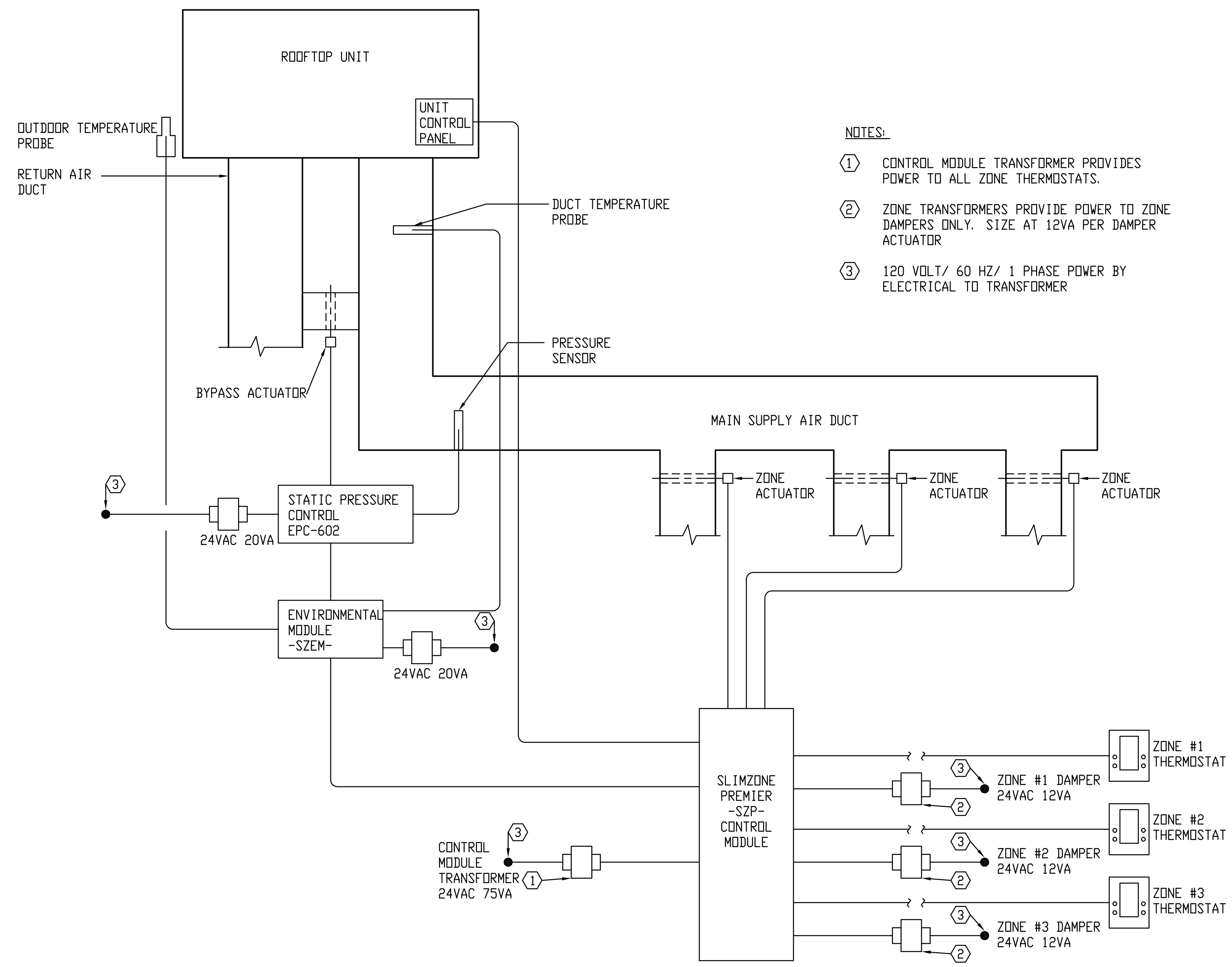
SHEET TITLE
MECHANICAL DETAILS AND SCHEDULES

M501

SHEET 2 OF 3



NOTES:

1. CONTROL MODULE TRANSFORMER PROVIDES POWER TO ALL ZONE THERMOSTATS.
2. ZONE TRANSFORMERS PROVIDE POWER TO ZONE DAMPERS ONLY. SIZE AT 12VA PER DAMPER ACTUATOR
3. 120 VOLT/ 60 HZ/ 1 PHASE POWER BY ELECTRICAL TO TRANSFORMER

WIRING SCHEMATIC FOR TEMPERATURE CONTROL OF ROOF TOP UNIT

BASED ON ROBERSHAW 'PREMIER SLIM ZONE'

NOTE: REVIEW INSTALLATION MANUALS FOR DETAILS ON WIRING AND PROPER TERMINATION.

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VAL L. ABERCROMBIE
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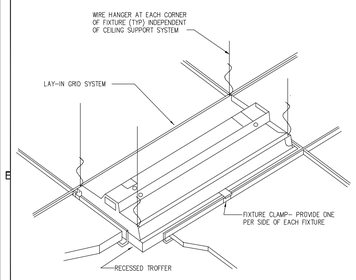
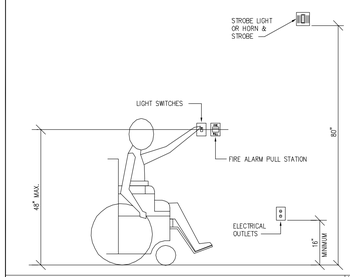
MECHANICAL CONTROLS

ME101

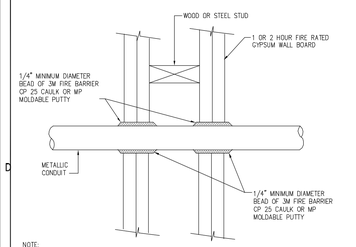
SHEET 3 OF 3



TYPICAL RECESSED FIXTURE MOUNTING DETAIL — NOT TO SCALE

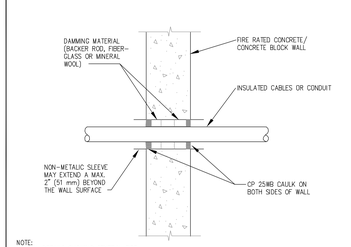


STANDARD HEIGHTS FOR HANDICAPPED ACCESS — NOT TO SCALE



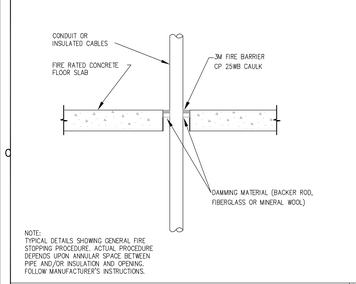
NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD — NOT TO SCALE



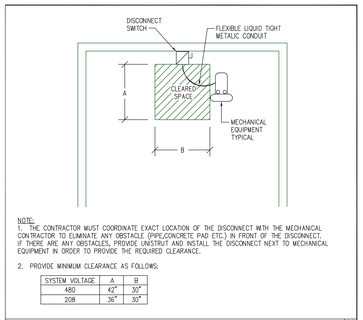
NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS — NOT TO SCALE



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

TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING — NOT TO SCALE

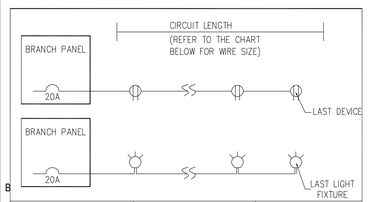


NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE,CONCRETE PAD ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

SYSTEM VOLTAGE	A	B
480	42"	30"
208	36"	30"

TYPICAL DISCONNECT CLEARANCE REQUIREMENTS — NOT TO SCALE



MINIMUM CONDUCTOR SIZE	MAX CIRCUIT LENGTH (120 VOLT)	MAX CIRCUIT LENGTH (277 VOLT)
#12	75 FT	180 FT
#10	125 FT	260 FT
#8	205 FT	420 FT
#6	325 FT	660 FT
#4	400 FT	900 FT

TYPICAL BRANCH CIRCUIT LENGTH DETAIL — NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	2'X4' RECESSED LIGHT FIXTURE WITH – 125" THICK LENS.	2F32	PRESCOLITE	
			LITHONIA	
			LIGHTOLIER	XP2GV1232-UNV-HI-PS
			METALUX	
EX-1	GREEN LED EXIT SIGN WITH BATTERY	INCLUDED	DUAL-LITE	CV3GEW
			MCPHILBEN	CXXL3GW
			ISOLATE	RLEM-G-WH
			LOL	LLNUGW

NOTES:
1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLAST'S, 10%, TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLAST'S TO HAVE 5 YEAR WARRANTY.
2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHTING SYMBOLS
	RECESSED FLUORESCENT FIXTURE
	SURFACE MOUNTED FLUORESCENT FIXTURE
	INDUSTRIAL STRIP LIGHT
	RECESSED FIXTURE
	WALL BOUNDED FIXTURE
	SURFACE FIXTURE
	WALL SCONCE FIXTURE
	PENDANT MOUNTED FIXTURE
E	FIXTURES ON EMERGENCY POWER
	EXIT LIGHT, ARROWS SHOW EXIT DIRECTION
	EMERGENCY BATTERY OPERATED LIGHT-SINGLE OR TWIN BEAM
T-X	LIGHTING FIXTURE CALLOUT, NUMBER INDICATES A SUGGESTED QUANTITY - TO BE VERIFIED
R	REFERENCE NOTE CALLOUT
$	SINGLE POLE TOGGLE SWITCH - 20 AMP
$a,b	SINGLE POLE TOGGLE SWITCH - 20 AMP, LETTERS INDICATE SWITCH ASSIGNMENT
$3	THREE WAY TOGGLE SWITCH - 20 AMP
	POWER SYMBOLS
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP, GFCI. DO NOT PROTECT DOWNSTREAM GFCI OUTLETS.
	SPECIAL PURPOSE SINGLE PHASE OUTLET
	SPECIAL PURPOSE THREE PHASE OUTLET
	FLUSH FLOOR OUTLET
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	CONDUITS CONCEALED IN FLOOR OR BELOW GRADE
	CONDUITS CONCEALED IN CEILING AND WALLS
	ARROWS INDICATE HOME RUNS - NUMBER OF CONDUCTORS AS REQUIRED
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	FLUSH TWO DATA OUTLETS-RUN TWO DAVER ROOM'A CABLES TO THE SER
	FLUSH TELEPHONE OUTLET-RUN A PHONE CABLE TO THE ITB
	MOTOR LOCATION
XX-1	MECHANICAL EQUIPMENT CALLOUT
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION
dtb	DUEL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THIS ROOM.
	DUEL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THIS ROOM.
	SPECIAL SYSTEMS SYMBOLS
	CALL BUTTON
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR
	FIRE ALARM PHOTOELECTRIC DUCT DETECTOR
	FIRE ALARM HEAT DETECTOR
F	FIRE ALARM MANUAL PULL STATION
H	FIRE ALARM HORN W/HI STROBE-HIGH DECIBEL
h	FIRE ALARM HORN WITH STROBE LOW DECIBEL
	GENERAL NOTE SYMBOLS
WP	INDICATES WEATHER PROOF EQUIPMENT
A	INDICATES DEVICE IS ABOVE COUNTER TOP=42" AFF-REFER TO ARCHITECTURAL ELEVATOIN
WG	INDICATES DEVICES WITH LOW PROFILE WORKGUARD. SUBMIT APPROVAL

GENERAL NOTES:

1. THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL BE COORDINATED WITH ARCHITECT.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION.
3. THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
4. MINIMUM SIZE OF CONDUIT IS 3/4". A 1/2" CONDUIT MAY BE USED FOR CONTROL CABLES.
5. USE RIGID STEEL, SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTING SHALL NOT BE USED.
6. SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID. AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
7. ALL NEW WORK MUST MEET THE CURRENT ADOPTED NATIONAL ELECTRICAL CODE.
8. NOT MORE THAN THREE (3) CIRCUITS SHALL BE INSTALLED IN A 3/4" CONDUIT.
9. THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE A NO. 10 AWG FOR ALL HOMERUNS WITH A COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
10. THE MINIMUM SIZE OF THE CONDUCTORS SHALL BE A NO. 12 AWG, THHN COPPER. UNLESS INDICATED OTHERWISE N THE DRAWINGS.
11. ALL J-BOXES SHALL HAVE A MINIMUM DEPTH OF 2-1/8" UNLESS OTHER WISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
12. ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THHN CONDUCTORS FOR HOMERUNS OVER 100 FEET IN LENGTH, NO. 8 THHN FOR OVER 200 FEET, AND NO. 4 THHN FOR OVER 400 FEET.
13. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
14. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH A ONE PIECE COVERPLATE.
15. USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTABLE.
16. AT THE END OF THE JOB, PROVIDE BLANK, MATCHING COVERPLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
17. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH A FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
18. ALL DISCONNECTS SHALL BE OF A HEAVY DUTY TYPE.
19. ALL MATERIALS USED IN INSTALLATION SHALL BE U.L. APPROVED AND NEW.
20. NO CONDUITS SHALL RUN IN DUCT WORK.
21. PRIOR TO SUBMITTAL FOR A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN THEIR BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
22. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL COLLECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/ FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
23. ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP., 120 VOLT SPEC GRADE, HUBBELL AND PASS & SEYMOUR AND LOCATION ARE APPROVED MANUFACTURERS.
24. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS.
25. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ ENGINEER, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS, IN WRITING, TO THE ARCHITECT/ ENGINEER WITH A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.
26. PROVIDE A TYPED LABEL FOR ALL DUPLEX OUTLETS AND LIGHT SWITCHES TO INDICATE WHICH CIRCUIT THEY ARE TIED TO.
27. IF POSSIBLE, MOUNT EXIT SIGN INDICATED NEAR A WALL ON THE WALL.
28. THE CONTRACTOR IS ALLOWED TO UTILIZE MC CABLE WITH GROUND IN A CONCEALED AREA ONLY.
29. ALL WIRING MUST BE IN CONDUITS. ROMEX OR MC CABLE IS NOT ALLOWED.
30. DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
31. COORDINATE WITH THE BUILDING ENGINEER FOR ANY UTILITY DOWN TIME (POWER AND FIRE ALARM SYSTEM)
32. PROVIDE TYPED PANEL SCHEDULE FOR ALL PANELS THAT ARE EFFECTED AS PART OF THIS REMODEL.

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PLANNING
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Salt Lake City, Utah 84115
801-596-0691/F: 596-0693
www.hfsa.com

CONSULTANT

1220 SOUTH 300 WEST (800)496-2222
SALT LAKE CITY, UTAH 84101 (800)474-ELELD fax.

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WEST JORDAN AASF AVIATION COMPLEX REMODEL

UTAH NATIONAL GUARD
7602 AIRPORT ROAD
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MARK	DATE	DESCRIPTION

DATE:	MAY 2007
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HFSA PROJECT NO:	0715.01
CAD DWG FILE NO:	
DRAWN BY:	
CHECKED BY:	
DESIGNED BY:	
DWG TYPE:	
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

GENERAL NOTES, DIAGRAMS, & SCHEDULES

E0.1

PARTIAL MAIN LEVEL FLOOR PLAN – DEMOLITION
1/4" = 1'-0"

REFERENCE NOTES

1. EXISTING ELECTRICAL DEVICES TO REMAIN. REFER TO SHEET E2.1 FOR MORE INFORMATION.

2. RELOCATE THE EXISTING WIRING GUTHER AND THE ASSOCIATED CONDUITS AND CONDUCTORS TO THE NEAREST WALL. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR. FIELD VERIFY.

DEMOLITION NOTES:

1. IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS.

2. ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.

3. ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.

4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUITS INTEGRITY.

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CONSULTANT

EELD
1220 SOUTH 300 WEST (801)486-2222
SALT LAKE CITY, UTAH 84101 (801)474-EELD fax

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NO. 334543-2202
MANSOUR AGHDASI
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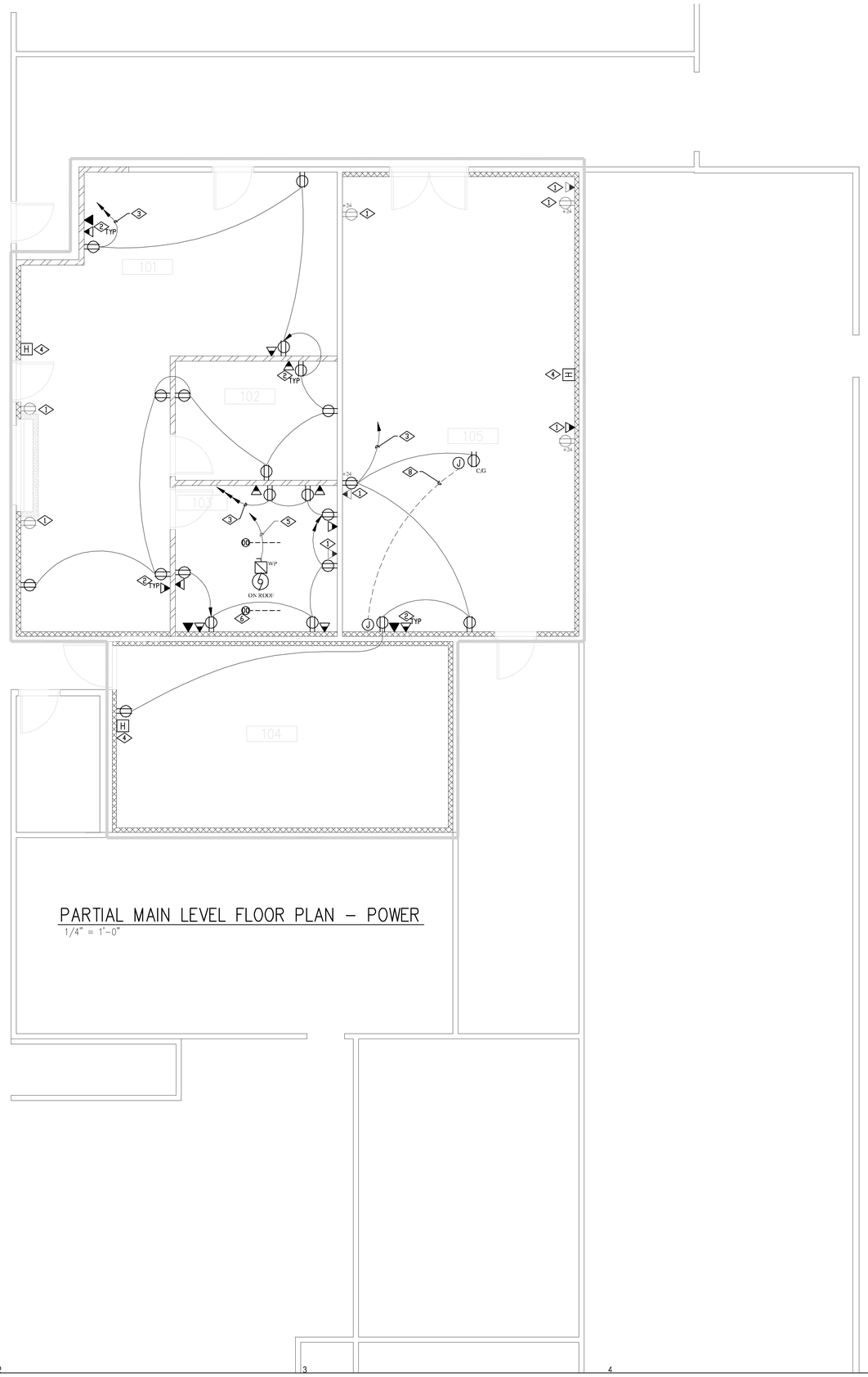
PARTIAL MAIN LEVEL FLOOR PLAN - DEMOLITION

E1.1



PARTIAL MAIN LEVEL FLOOR PLAN – POWER

1/4" = 1'-0"

REFERENCE NOTES: POWER

1. EXISTING ELECTRICAL DEVICES TO BE EXTENDED TO THE NEW WALL SURFACE. REPLACE THE EXISTING DEVICES TO MATCH THE REST OF THE DEVICES IN THE ROOM. COORDINATE WITH THE ARCHITECT FOR THE EXACT HEIGHT OF NEW DEVICES IN THE ROOM. PROVIDE ADDITIONAL CONDUIT, CONDUCTORS, ETC FOR A COMPLETE INSTALLATION.

2. IN THE LOCATION WHERE A TWO DATA OUTLETS ARE SHOWN (▼) FURNISH AND INSTALL TWO RJ45. PROVIDE A COVER PLATE WITH TWO OPENINGS. IN THE LOCATION WHERE A PHONE IS SHOWN ▼ FURNISH AND INSTALL A RJ11. PROVIDE A COVER PLATE WITH TWO OPENINGS (PROVIDE BLANK COVER FOR ONE) RUN A DATA CABLE FROM EACH DATA OUTLET AND A PHONE CABLE FROM EACH PHONE OUTLET TO THE TTB BOTH ENDS OF CABLE. RUN ALL CABLES IN $\frac{3}{4}$" CONDUIT. TERMINATE AND LABLE BOTH ENDS OF CABLE. PROVIDE ADDITIONAL DEVICES FOR A COMPLETE INSTALLATION.

3. TIE EACH HOMERUN TO A DEDICATED 120 VOLT, 20 AMP CIRCUIT ON THE SAME FLOOR. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. FIELD VERIFY

4. FURNISH AND INSTALL NEW FIRE ALARM DEVICES IN THE APPROXIMATE LOCATIONS SHOWN. TIE THE NEW DEVICES TO THE EXISTING FIRE ALARM CONTROL PANEL. FIELD VERIFY LOCATION OF EXISTING FIRE ALARM CONTROL PANEL. THE NEW DEVICES SHALL BE THE SAME AS THE EXISTING DEVICES. TEXT THE FIRE ALARM SYSTEM TO MEET THE AHJ'S REQUIREMENT. PROVIDE ADDITIONAL HARD WARE, SOFT WARE, BATTERY, ETC FOR A COMPLETE WORKING INSTALLATION. UTILIZE CLASS "A" LOOP. RUN THE CABLE IN CONDUIT.

5. TIE THE NEW MECHANICAL EQUIPMENT TO 20AMP, 3 POLE, 480VOLT CIRCUIT BREAKER IN THE EXISTING PANEL "PB2". PROVIDE CONDUIT, CONDUCTORS, ETC FOR A COMPLETE INSTALLATION. FIELD VERIFY. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR EXACT LOCATION. UTILIZE 3#12, 1#12, 3/4" CONDUIT.

6. FURNISH AND INSTALL NEW DUCT DETECTOR IN THE SUPPLIANT THE RETURN DUCT. TIE THE DUCT DETECTOR TO THE FIRE ALARM CONTROL PANEL FOR MONITORING. ALSO TIE THE MECHANICAL UNIT TO THE FIRE ALARM CONTROL PANEL FOR SHUT DOWN IN CASE OF FIRE. COORDINATE WITH THE MECHANICAL CONTRACTOR. PROVIDE CONDUIT, CONDUCTORS, RELAY, ETC FOR A COMPLETE INSTALLATION.

7. COORDINATE EXACT LOCATION OF DATA/DUPLEX OUTLETS WITH THE OWNER PRIOR TO ROUGHIN.

8. RUN 1½" CONDUIT FORM THE OVERHEAD PROJECTOR TO THE APPROXIMATE LOCATION FOR FUTURE CABLES. COORDINATE WITH OWNER FOR EXACT LOCATION.

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CONSULTANT

1228 SOUTH 300 WEST (801)486-2222
SALT LAKE CITY, UTAH 84101 (801)474-GBLD fax

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NO. 334543-2202
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PARTIAL MAIN LEVEL FLOOR PLAN - POWER

E2.1

REFERENCE NOTES: LIGHTING

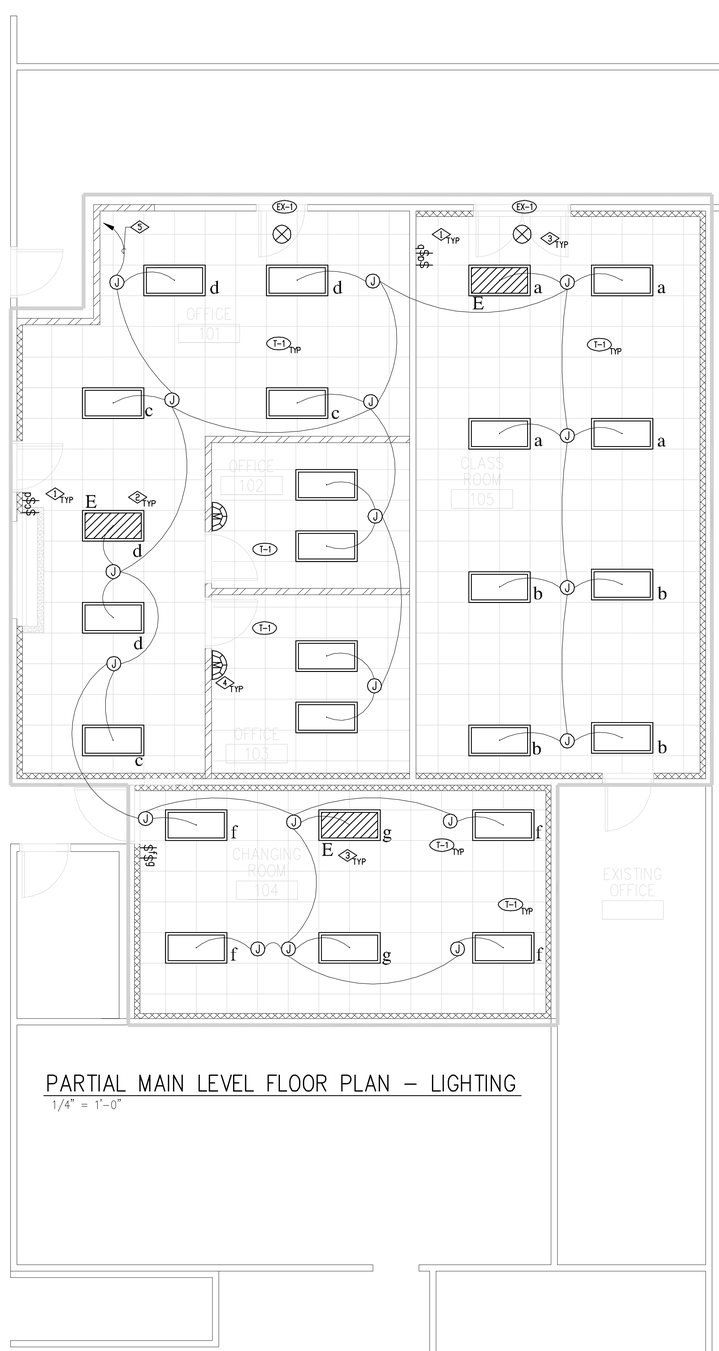
1. TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCH(ES). PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION.

2. EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER "E" SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP WITH 1100 LUMENS IN THE LIGHT FIXTURE SHALL TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL SWITCH. PROVIDE AN UNSWITCHED CIRCUIT TO THE BATTERY. PROVIDE CONDUITS, CONDUCTORS, TEST SWITCH, ETC. FOR A COMPLETE INSTALLATION.

3. TIE EMERGENCY LIGHT FIXTURES AND EXIT SIGNS TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, CONDUCTORS, RELAY BALLAST'S, ETC. FOR A COMPLETE INSTALLATION. FIELD VERIFY.

4. FURNISH AND INSTALL A WALL MOUNTED MOTION SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER & SENSOR SWITCH ARE THE APPROVED MANUFACTURES.

5. TIE THE LIGHT FIXTURES TO THE NEAREST 277 VOLT LIGHTING CIRCUIT WITH AVAILABLE CAPACITY. FIELD VERIFY. PROVIDE CONDUIT, CONDUCTORS, CIRCUIT BREAKER, ETC FOR A COMPLETE INSTALLATION.



PARTIAL MAIN LEVEL FLOOR PLAN – LIGHTING

1/4" = 1'-0"

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CONSULTANT

1220 SOUTH 300 WEST (801)486-3222
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PARTIAL MAIN LEVEL FLOOR PLAN - LIGHTING

E9.1