City of Aurora
Building Codes Division
15151 E Alameda Pkwy
Aurora, CO 80012
(303) 739-7420

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DUNN ASSOCIATES, INC
Consulting Structural Engineers

November 3, 2006

Layton Construction
Att: Jonathan Beisinger
9090 South Sandy Parkway
Sandy, Utah 84070

RE: Medical Center Aurora South
Aurora, Colorado

Dear Jonathan:

We have been requested to ascertain whether two new mechanical units could be installed on the existing roof of the Medical Center Aurora South. Each unit will be supported by two roof joists. The units will not share the same two roof joists.

The roof drawings indicate the joists in the area to be 18H7 open web steel joists spaced at about 4'-0" o.c. They span about 32' and have a load capacity of 303 pounds per square foot or a total load capacity of about 9696 pounds (4,848 pounds at each end as a reaction).

The new unit weighs about 315 pounds for which the load will be evenly spread over two joists; 158 pounds per joist. Assuming the unit is located near the end of the joist, the joist reaction would increase by about 3.2% which is deemed acceptable. The new unit can safely be supported on the existing structure.

Respectfully yours

DUNN ASSOCIATES, INC.

Wm. Chris Barker S.E.
Principal/Engineer

COLORADO REGISTERED DUNN 29856 11/3/06 PROFESSIONAL ENGINEER

06 · 167605
CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED Jean P
DATE 12/18/6
RSN 246592

Structural plan review is limited to general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

380 West 800 South, Suite 100 Salt Lake City, Utah 84101 phone: 801-575-8877 fax: 801-575-8875 www.dunn-ss.com

City of Aurora Plan Review
Occ. Type: I-2
Const. Type: 1B SPK
Square Footage:
Code: IBC 2003
RSN: 24592
Permit No. 06167605

1501 S. Potomac

06 . 167605-LT

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED Jeanp
DATE 12/18/6

BUILDING DIV. COPY

OWNER

MEDICAL CENTER OF AURORA

AURORA, COLORADO

Separate Life Safety drawings will be required for new systems or alterations to existing fire alarm systems. Plans must be shown with device locations, one line diagrams, battery calculations and product cut sheets. Approval of the plan set is required prior to fire alarm inspection.

Code violations found during inspection are required to be corrected. Plan/Permit issuance does not grant approval of a code violation. 2003 IBC 105.4

ARCHITECT

DESIGN WEST ARCHITE[illegible]

LOGAN, UTAH

GENERAL CONTRACTOR

LAYTON CONSTRUCTION COMPANY, INC.

SANDY, UTAH

Separate Life Safety drawings will be required for new systems or alterations to existing fire sprinkler systems. Plans must show sprinkler head locations, piping sizes and hydraulic calculations (if needed) and product cut sheets. Approval of the plan set is required prior to a request for inspection.

ELECTRICAL ENGINEER

CACHE VALLEY ELECTRIC CO.

SALT LAKE CITY, UTAH

MECHANICAL ENGINEER

CCI MECHANICAL SERVICE

SALT LAKE CITY, UTAH

CONSTRUCTION DOCUMENTS
01 AUGUST 2006

XREFS
FILE DATE
FILE NAME
DT DATE

NUMBERING SYSTEM:

DISCIPLINE:
A-ARCHITECTURE
M-MECHANICAL
E-ELECTRICAL
P-PLUMBING
SERIES NUMBER
SHEET NUMBER WITHIN SERIES
NUMBER OF PLAN, DETAIL, ETC. ON SHEET

A2.10/01

KEY

☒ ISSUED FOR INFORMATION AND COORDINATION

■ ISSUED FOR PERMIT

	12-04-2006 DUE DILIGENCE	01-08-2006 CONST DOCUMENTS

GENERAL

A0.00	INDEX SHEET	☒	■

ARCHITECTURAL

A0.01	PROJECT STANDARDS	☒	■
A0.02	PARTITION HEAD DETAILS	☒	■
A0.03	PARTITION TYPES AND CEILING GRID DETAIL	☒	■
A2.01	NEW/DEMO ENLARGED FLOOR PLAN	☒	■

MECHANICAL

M001	TITLE SHEET (LEGEND AND ABBREVIATIONS)		■
M201	MECHANICAL PLANS, SCHEDULES AND DETAILS		■
M501	MECHANICAL DETAILS		■

ELECTRICAL

E1.00	DRAWING INDEX, SYMBOLS, NOTES AND SPECIFICATIONS		■
E1.01	EQUIPMENT SCHEDULE AND DETAILS		■
E1.02	ONE LINE DIAGRAM		■
E2.01	NEW AND DEMO POWER PLAN		■
E2.02	EXISTING OVERALL PLAN		■
E6.00	PANEL SCHEDULES		■

STATE OF COLORADO
RICHARD DAEMS C-5339
LICENSED ARCHITECT

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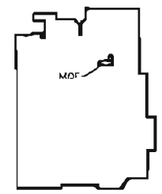
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9980 SOUTH SANDY PARKWAY
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HCA TECH REFRESH

OWNER
MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
DENVER, CO



REVISION

PROJECT NUMBER
10237.033

ISSUE
CONSTRUCTION DOCUMENTS

DATE
01 AUGUST 2006

SHEET TITLE
INDEX SHEET

SHEET NO
A0.00

LEGEND

CEILING SYMBOLS

- SMOKE DETECTOR
- EXIT
- SUPPLY AIR
- RETURN AIR
- ACCESS PANEL
- FLUORESCENT LIGHT

PLAN SYMBOLS

- ROOM NAME / XXXXX — ROOM NAME/NUMBER
- ACCESSORY
- DIRECTION INDICATOR
- 001 — EQUIPMENT
- A — PARTITION TYPE WITH NO SOUND ATTENUATION
- A — PARTITION TYPE WITH SOUND ATTENUATION
- CMU WALL
- NEW WALL
- EXISTING WALL
- DEMO WALL
- 1 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- NON-RATED SMOKE WALL
- 1 HOUR SMOKE WALL
- 2 HOUR SMOKE WALL
- 1 HOUR SHAFTWALL
- 2 HOUR SHAFTWALL

DRAWING ABBREVIATIONS

AB	Anchor Bolt	FT	Foot	PR	Pair
AD	Area Drain	FTG	Footing	PREFAB	Prefabricated
ADD	Addendum	FV	Field Verify	PSF	Pounds per Square Foot
ADD'L	Additional	FVC	Fire Valve Cabinet	PSI	Pounds per Square Inch
ADJ	Adjacent			PT	Paint
AFF	Above Finished Floor	GA	Gauge	PTD	Painted
AGGR	Aggregate	GALV	Galvanized		
AL ALUM	Aluminum	GB	Grade Beam	R	Riser
ALT	Alternate	GEN	General	RAD	Radius
ANOD	Anodized	GFRC	Glass-Fiber Reinforced Concrete	RAF	Rubberized Asphalt Flashing
APPROX	Approximate			RAM	Rubberized Asphalt Membrane
ARCH	Architectural	GI	Galvanized Iron	RAU	Rubberized Asphalt Underlayment
		GL	Glass		
B.M.	Bench Mark	GND	Ground	RCP	Reflected Ceiling Plan
BD	Board	GR	Grade	RD	Roof Drain
BETW	Between	GRG	Glass-Reinforced Gypsum	REBAR	Reinforcing Bar
BF	Backface	GYP BD	Gypsum Board	RECP	Receptacle
BG	Bumper Guard			REF	Refer or Reference
BL	Bed Locator	HB	Hose Bib	REINF	Reinforcing
BL	Building Line	HDW	Hardware	RELOC	Relocate/Relocated
BLDG	Building	HDWD	Hardwood	REQ'D	Required
BLKG	Blocking	HK	Hook	RFVC	Recessed Fire Valve Cab
BM	Beam	HM	Hollow Metal	RM	Room
BOT	Bottom	HOR	Horizontal	RO	Rough Opening
BR	Bumper Rail	HP	High Point		
BRG	Bearing	HR	Hour		
BSMT	Basement	HS	Headed Stud	SAB	Sound Attenuation Blanket
BU ROD	Back-Up Rod	HSKP	Housekeeping	SBC	Standard Building Code
BUR	Built-Up Roof	HT	Height	SCHED	Schedule
BW	Bearing Wall	HW	Hand Wash	SDL	Superimposed Dead Load
				SECT	Section
C	Compact Parking Space	ID	Inside Diameter	SHR	Shower
CDR	Card Reader	INSUL	Insulation	SHT	Sheet
CEM	Cement	INT	Interior	SHW	Shower
CER	Ceramic			SIM	Similar
CG	Corner Guard	JT	Joint	SO	Structural Opening
CIP	Cast In Place			SOG	Slab on Grade
CJ	Control Joint	K	Kips (1000 LB)	SP	Stand Pipe
CJ	Construction Joint	KO	Knock-Out	SPA	Space, Spacing
CL	Center Line	KP	Kickplate	SPEC	Specification
CLG	Ceiling	KPD	Keypad	SQ	Square
CLR	Clear	KSF	Kips Per Square Foot	SS	Stainless Steel
CMU	Concrete Masonry Unit			STA	Station
COL	Column	L	Angle	STC	Sound Transmission Class
COMM	Communications	LAV	Lavatory	STD	Standard
CONC	Concrete	LG	Long	STIFF	Stiffener
CONN	Connection	LKB	Lockable	STIR	Stirrup
CONST	Construction	LL	Live Load	STL	Steel
CONT	Continuous	LLH	Long Leg Hor.	STRUC	Structural
COORD	Coordinate	LLV	Long Leg Vertical	SYM	Symmetrical
CORR	Corridor	LOC	Location	SYS	System
CR	Cold Rolled	LP	Low Point		
CR	Crash Rail	LT	Light	T	Tread
CSK	Countersunk	LWC	Lightweight Concrete	T&B	Top and Bottom
CT	Ceramic Tile			TC	Top of Curb
CTD	Centered	MAS	Masonry	TEL	Telephone
CTR	Center	MAT'L	Material	TEMP	Temperature
CW	Curtain Wall	MAX	Maximum	THK	Thick
		MECH	Mechanical	TLT	Toilet
D	Depth	MEMB	Membrane	TOB	Top of Beam
DBA	Deformed Bar Anchor	MFR	Manufacturer	TOC	Top of Concrete
DET	Detail	MIN	Minimum	TOF	Top of Footing
DIA	Diameter	MISC	Miscellaneous	TOP	Top of Parapet
DIAPH	Diaphragm	MO	Masonry Opening	TOS	Top of Slab
DIM	Dimension	MOD BIT	Modified Bitumen	TOSTL	Top of Steel
DJ	Deflection Joint	MOD	Modified	TW	Top of Wall
DL	Dead Load	MSL	Mean Sea Level	TYP	Typical
DN	Down	MTL	Metal		
DRG	Drawing			UNO	Unless Noted Otherwise
DS	Down Spout	N/A	Not Applicable		
DWGS	Drawings	NA	Not Available	VAR	Varies
DWLS	Dowels	NIC	Not in Contract	VCT	Vinyl Composition Tile
		NOM	Nominal	VERT	Vertical
EA	Each	NS	Near Side	VEST	Vestibule
EF	Each Face	NTS	Not to Scale	VWC	Vinyl Wall Covering
EIFS	Exterior Insulation and Finish System	NWC	Normal Weight Concrete	W/	With
				W/O	Without
EJ	Expansion Joint	OA	Over All	W	Width
EL	Elevation	OC	On Center	W.P.	Waterproof(ing)
ELEC	Electric	OD	Outside Diam.	WD	Wood
ELEV	Elevator	OD	Overflow Drain	WF	Wide Flange
EOS	Edge of Slab	OFCI	Owner Furnished, Contractor Installed	WL	Wind Load
EQ	Equal			WP	Work Point
EQUIP	Equipment	OFOI	Owner Furnished, Owner Installed	WWF	Welded Wire Fabric
ESC	Escalator				
EW	Each Way	OH	Opposite Hand		
EWC	Electric Water Cooler	OPNG	Opening		
EXIST	Existing	OPP	Opposite		
EXP BLT	Expansion Bolt	OSF	Outside Face		
EXT	Exterior				
		P LAM	Plastic Laminate		
FD	Floor Drain	PC	Precast Concrete		
FDN	Foundation	PCF	Pounds per Cubic Foot		
FE	Fire Extinguisher	PENT	Penthouse		
FEC	Fire Extinguisher Cabinet	PL	Property Line		
FF	Finish Floor	PL	Plate		
FHC	Fire Hose Cabinet	PLUMB	Plumbing		
FIN	Finish	PLYWD	Plywood		
FIN FLR	Finish Floor	PP	Push Plate		
FLR	Floor	POL	Polished		
FS	For Side	PORT CEM	Portland Cement		

BUILDING SUMMARY

APPLICABLE CODES

- -BUILDING CODE: IBC 2003
- -MECHANICAL CODE: IMC 2003
- -PLUMBING CODE: IPC 2003
- -ELECTRICAL CODE: NEC 2005
- -FIRE CODE: IFC 2003
- -STATE/CITY AMENDMENTS: X
- -LIFE SAFETY CODE: NFPA 101
- -ACCESSIBILITY CODE: ANSI A117
- -ENERGY CODE: MODEL ENERGY
- -SIGN CODE: X
- -ANSI: X
- -FM INSURED: X

BUILDING PLANNING

OCCUPANCY: I-2

MIXED OCCUPANCY? YES / (NO)

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE: 1B

GENERAL BUILDING LIMITATIONS

-ALLOWABLE FLOOR AREA: UNLIMITED

-ALLOWABLE AREA INCREASES: YES / (NO)

CODE REFERENCE: N.A.

FIRE PROTECTION SYSTEMS

-FIRE DISTRICT: YES / (NO)

-FIRE EXTINGUISHING SYSTEM: (YES) / NO

TYPE: AUTOMATIC WET PER NFPA 13

-STANDPIPE SYSTEM: (YES) / NO

CLASS: 1

-SMOKE CONTROL: YES / (NO)

-SMOKE & HEAT VENTS: YES / (NO)

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED Jamp
DATE 12/18/06
06 - 167605

STATE OF COLORADO ★ RICHARD DAEMS C-5339 ★ LICENSED ARCHITECT

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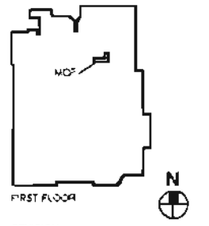
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1501 SOUTH POTOMAC STREET
DENVER, CO



REVISION

DWG PROJECT NUMBER
10257.033

ISSUE
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DATE
01 AUGUST 2006

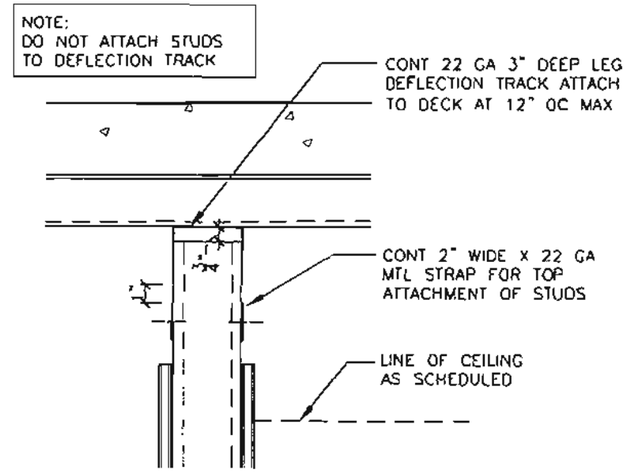
SHEET TITLE
PROJECT STANDARDS

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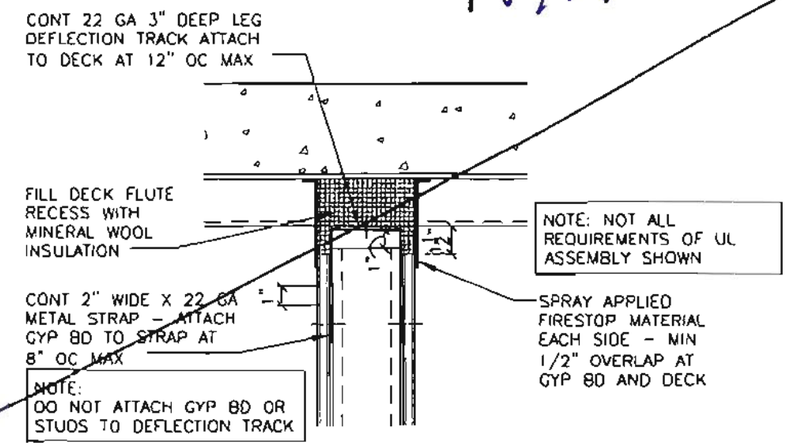
PARTITION HEAD DETAILS

N/A



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF
PERPENDICULAR OR DIAGONAL TO FLUTES

NON-RATED

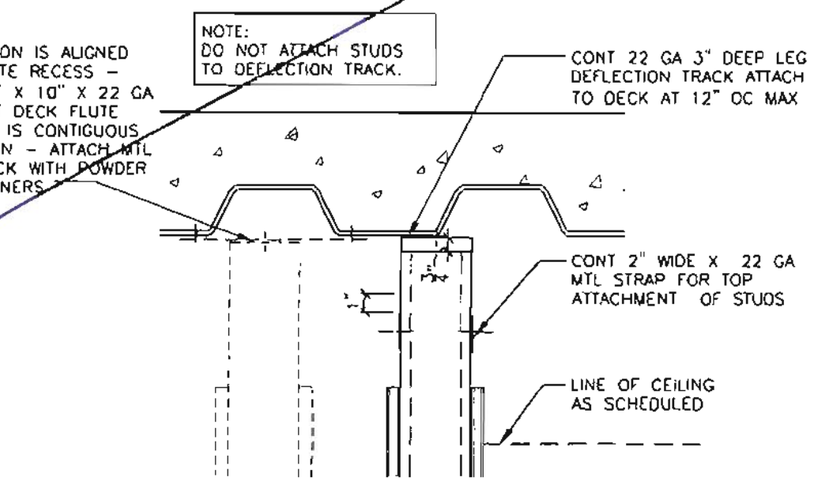


FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF
PERPENDICULAR OR DIAGONAL TO FLUTES

**ONE HOUR FIRE RESISTANT AND ONE HOUR
FIRE RESISTANT SMOKE BARRIER
UL-HW-D-0107**

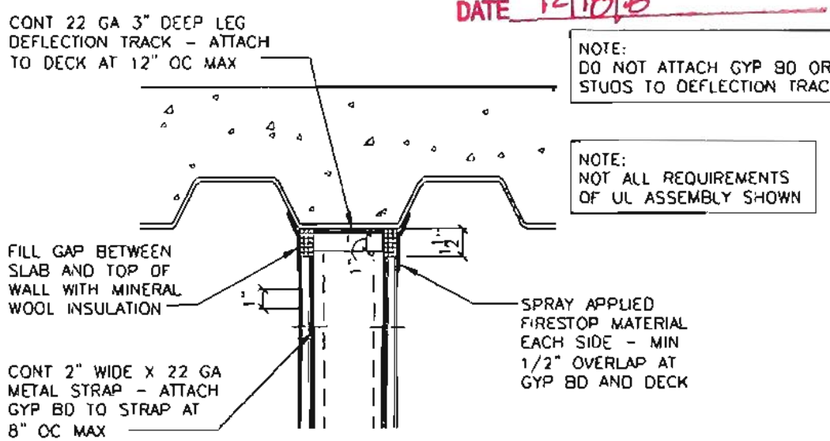
THE ... OF DRAWINGS HAS
NOT BEEN REVIEWED FOR
CODE COMPLIANCE

CITY OF AURORA 06-167605
BUILDING DIVISION
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DATE 12/18/6



FLUTED STEEL DECK/CONCRETE FLOOR OR
ROOF PARALLEL TO FLUTES

NON-RATED



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF
PARALLEL TO FLUTES

**ONE HOUR FIRE RESISTANT AND ONE HOUR
FIRE RESISTANT SMOKE BARRIER
UL-HW-D-0165**

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LOGAN UTAH 84321

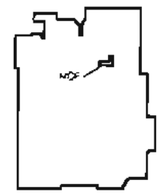
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STATE OF COLORADO
RICHARD DAEMS
C-5339
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CONSTRUCTION DOCUMENTS
DATE
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SHEET TITLE
PARTITION HEAD DETAILS

SHEET NO
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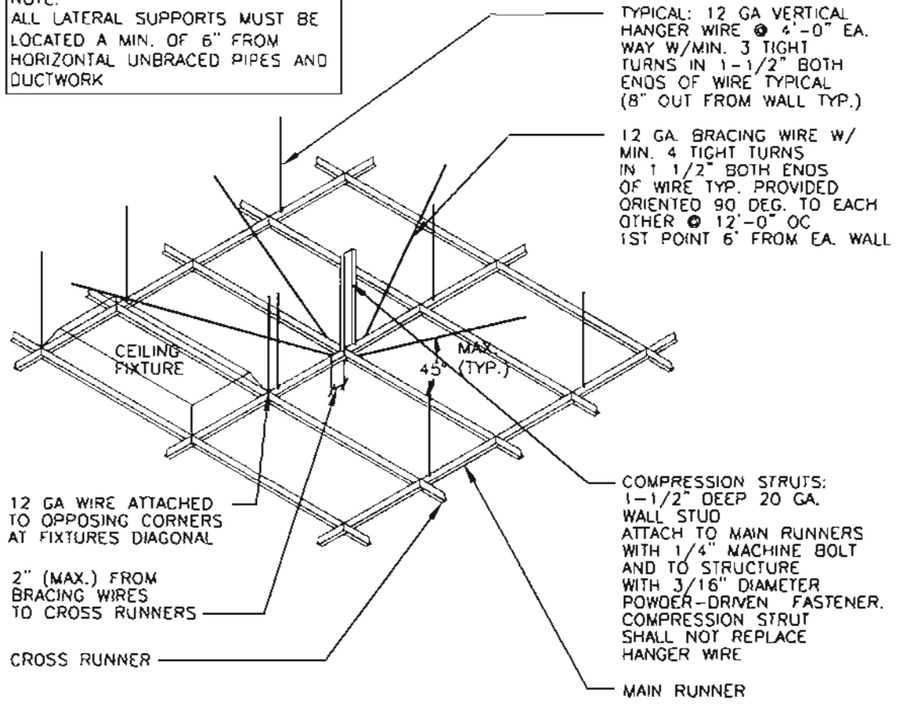
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PLOT DATE

NOTES

1. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
2. SEALANT:
   A. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE RESISTANT FILL MATERIAL, IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
   B. NON-RATED PARTITIONS AND NON-RATED SMOKE RESISTANT PARTITIONS SHALL USE ACOUSTICAL SEALANT.
3. REFER TO SCHEDULE IN SPECIFICATIONS FOR STUD GAUGE, SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
4. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
5. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND/OR SMOKE RESISTANT RATING SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF WALL AND 8'-0" O.C. MAX. EACH SIDE

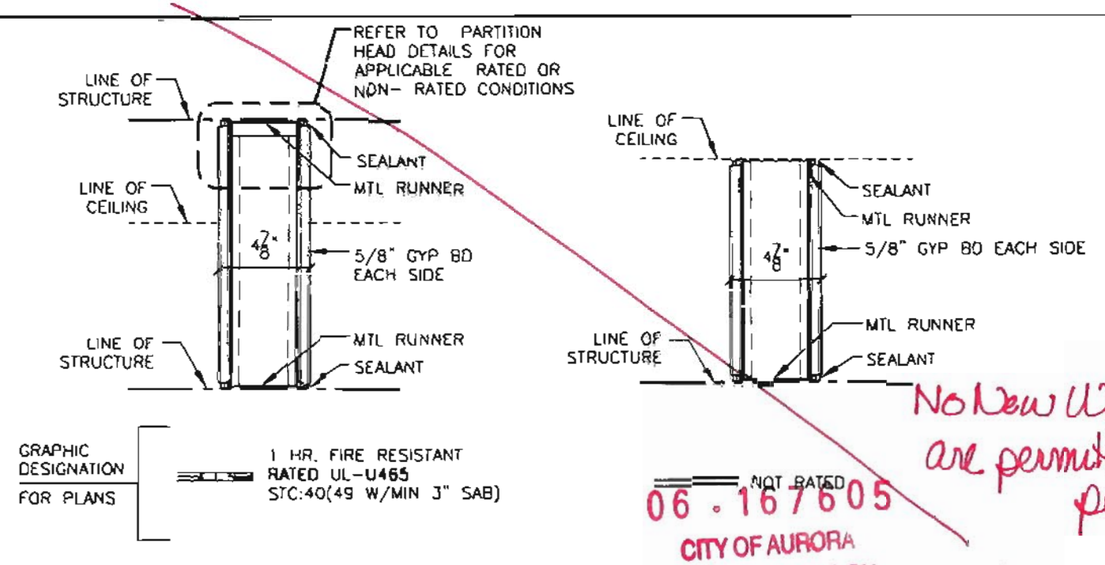
CEILING GRID ATTACHMENT FOR SEISMIC COND.

NOTE:
ALL LATERAL SUPPORTS MUST BE LOCATED A MIN. OF 6" FROM HORIZONTAL UNBRACED PIPES AND DUCTWORK



ICBO (INTERNATIONAL COUNCIL OF BUILDING OFFICIALS) EVALUATION REPORT - 4071 GYPSUM WALLBOARD (066) (THIS REPORT HAS THE SAME REQUIREMENTS FOR GYP. BD. CEILINGS & LAY IN CEILING.

PARTITIONS - INDICATED BY GRAPHIC AND SYMBOL DESIGNATIONS



No New Walls Typ are permitted under this permit

06 . 167605
CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED Jeanf
DATE 12/13/16

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	TYPE	DOOR MATERIAL	FRAME MATERIAL	FIRE RATING	REMARKS
101	3'-0"	7'-0"	FLUSH	WOOD	HM	45 MIN.	EXISTING TO REMAIN - OPTION a EXISTING TO BE RELOCATED - OPTION b/c
102	3'-0"	7'-0"	FLUSH	WOOD	HM	--	EXISTING TO REMAIN
103	3'-0"	7'-0"	FLUSH	WOOD	HM	--	EXISTING TO REMAIN
104	3'-0"	7'-0"	FLUSH	WOOD	HM	--	EXISTING TO REMAIN

ROOM FINISH DESIGNATION

ROOM	BASE	WALLS	CEILING	FLOOR	REMARKS
SERVER	RUBBER	PAINTED GYP	EXPOSED STRUCTURE	VCT	EXISTING TO REMAIN PATCH AND INSTALL NEW WHERE REQUIRED
MDF	RUBBER	PAINTED GYP	ACOUSTICAL TILE	VCT	EXISTING TO REMAIN PATCH AND INSTALL NEW WHERE REQUIRED
OFFICE	RUBBER	PAINTED GYP	ACOUSTICAL TILE	VCT	EXISTING TO REMAIN PATCH AND INSTALL NEW WHERE REQUIRED

NOTE:
1. THE INTENT IS TO MATCH EXACTLY ALL FINISHES.
2. TO ENSURE EXACT MATCH, PROVIDE 6"X6" SAMPLES OF EACH VINYL TILE, PAINT INCLUDING SHEEN, ACOUSTICAL PANEL CEILING, RUBBER BASE FOR REVIEW TO VERIFY MATCH WITH EXISTING MATERIALS.

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256 SOUTH 300 WEST
LOGAN, UTAH 84321

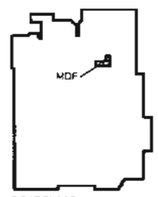
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DENVER, CO



REVISION

STATE OF COLORADO
RICHARD BAENA
C-9339
LICENSED ARCHITECT

ISSUE
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DATE
01 AUGUST 2008

SHEET TITLE
PARTITION TYPES
CEILING GRID DTL

SHEET NO
A0.03

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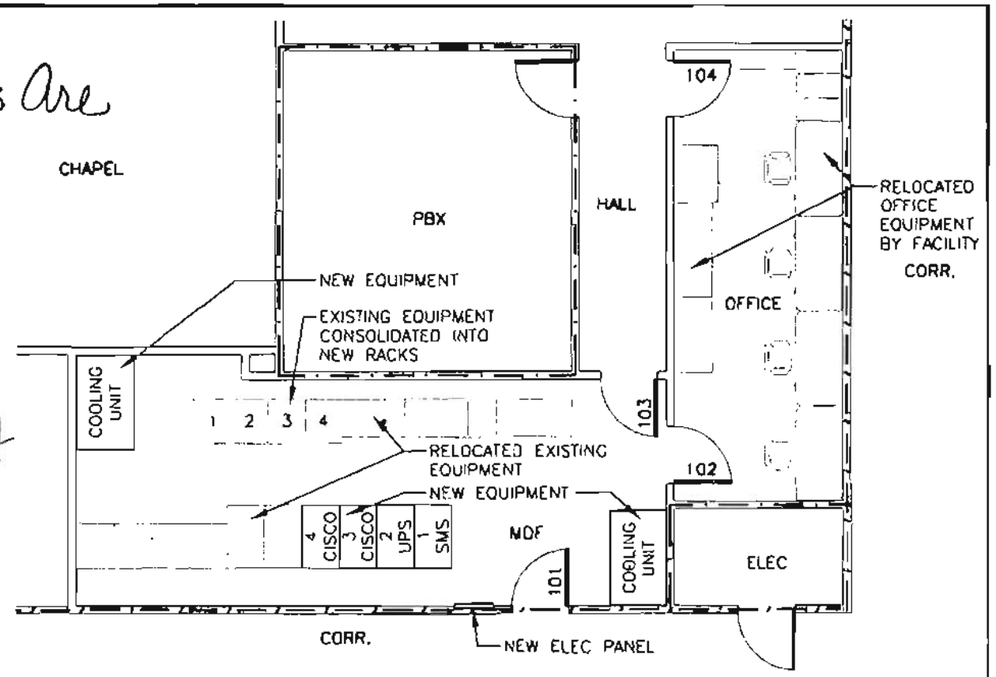
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PLOT DATE

No New Walls Are
~~Beam~~

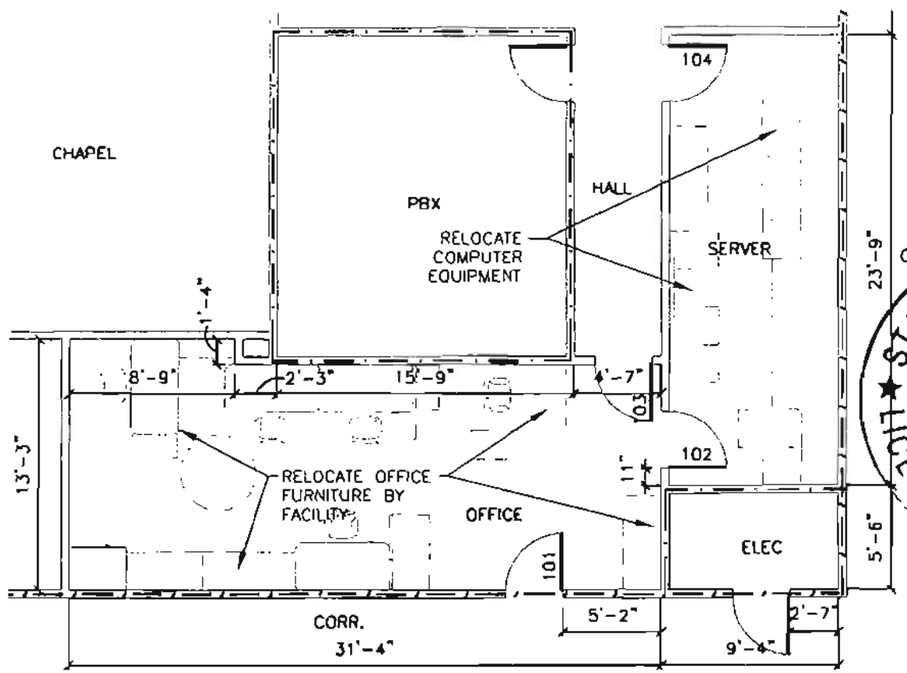
No New Walls or Wall Mods Under this permit

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02 NEW FLOOR PLAN
1/8" = 1'-0"



01 DEMO FLOOR PLAN
1/8" = 1'-0"

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255 SOUTH 300 WEST
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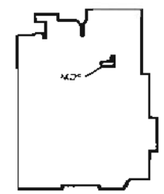
GENERAL CONTRACTOR
LAYTON CONSTRUCTION COMPANY, INC
9980 SOUTH SANDY PARKWAY
SANDY UTAH 84070

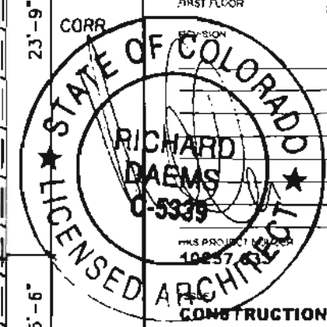
ELECTRICAL ENGINEER
CACHE VALLEY ELECTRIC CO
7345 SOUTH JOHN HENRY DRIVE
SALT LAKE CITY, UT 84119

MECHANICAL ENGINEER
CO MECHANICAL SERVICE
783 SOUTH REDWOOD ROAD
SALT LAKE CITY, UT 84104

HCA TECH REFRESH

OWNER
MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
DENVER CO





ISSUE
CONSTRUCTION DOCUMENTS
DATE
01 AUGUST 2006

SHEET TITLE
NEW/DEMO ENLARGED FLOOR PLAN/RCP

SHEET NO
A2.01

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PLOT DATE FILE NAME FILE DATE XREFS

DESIGN CONDITIONS

1 OUTSIDE

Aurora, CO: 89°F/60°F (SUMMER); -2°F/-1°F (WINTER); Elevation: 5,883'

DRAWING INDEX

SHEET NUMBER/DRAWING TITLE

M001 TITLE SHEET (LEGEND and ABBREVIATIONS)

M201 MECHANICAL PLANS, SCHEDULES AND DETAIL

M501 MECHANICAL DETAILS

GENERAL NOTES

A- All duct sizes noted are inside free clear area.

B- All ductwork will be fabricated and installed per latest SMACNA standards and methods.

C- Flexible duct connections to ceiling diffusers and VAV boxes (where required) maximum 5'-0" long.

D- Coordinate all work with General Contractor and existing trades. Field verify exact locations.

E- Field coordinate location of all ceiling diffusers, grilles, registers, and exhaust fans with Architectural Drawings and General Contractor.

F- All cutting and patching by General Contractor.

G- All line voltage wiring by Electrical Contractor.

H- All openings and penetrations through floors, roofs and corridor walls must be sealed to maintain the fire rating integrity of the building.

I- All temperature control devices, wiring and installation by HVAC Contractor.

J- Slope all waste lines, roof and overflow roof drain lines, storm drain lines and vents a minimum of 1/8" per foot (1%) in appropriate directions.

K- All connections between dissimilar piping materials will be made with a dielectric water-way fitting.

L- All duct, piping, mechanical equipment, and housekeeping pads will be installed per the latest building code seismic requirements and SMACNA seismic restraint manual.

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 19 2006

06 - 167605

PERMIT SET

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GENERAL NOTE

8-18-06

CCI Mechanical, Inc.

758 So. Redwood Road • Box 25768 • Salt Lake City, Utah 84125 • (801) 973-9000 • Fax (801) 975-7204

Professional Mechanical Constructors/Engineers • Since 1961

DRAWN BY	VJF	SCALE	NONE
CHECKED BY	MJM/GP	PLOT RATIO	1:1
APPROVED BY	-	CONSTRUCTION MANAGER	-
DESIGNER/ ENGINEER	VJF/GP	PROJECT MANAGER	-

DATE 8-11-06

PROJECT NAME/ADDRESS

MEDICAL CENTER of AURORA

1501 SOUTH POTOMAC STREET
AURORA, CO 80012

DRAWING TITLE

TITLE SHEET

PROJECT #	DRAWING #	REV. #
666476	M001	A

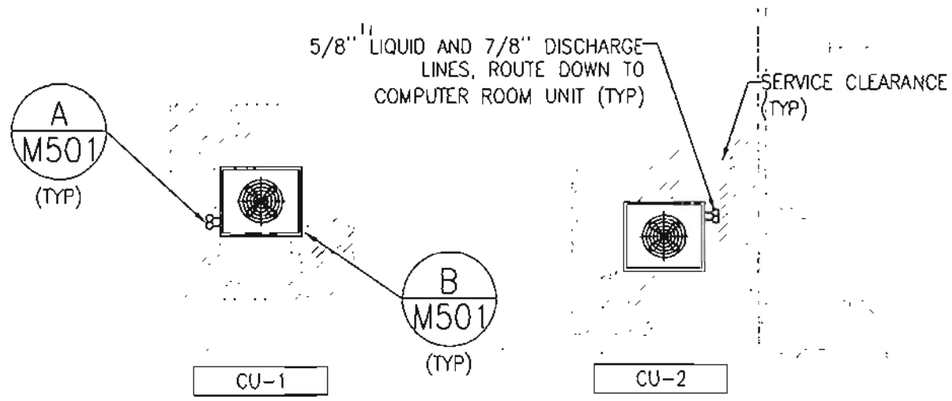
COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

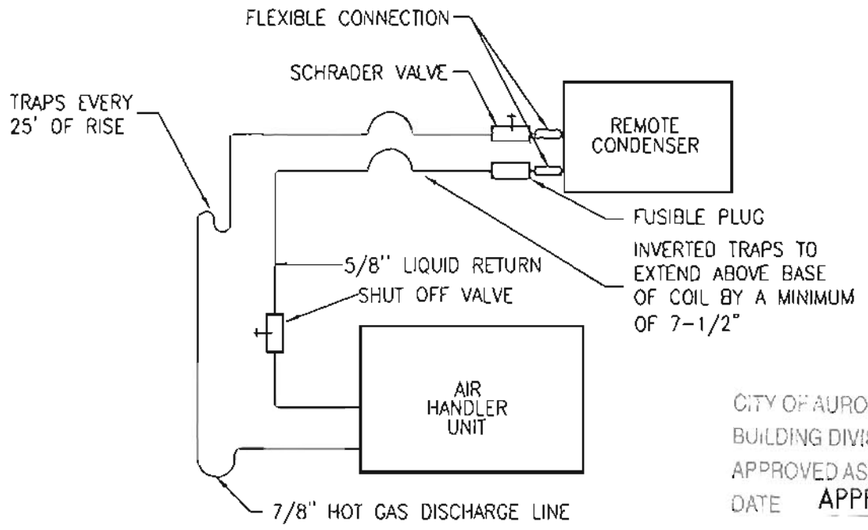
SYMBOL	LOCATION SERVICE	SHEET REF.	COOLING				AIR		ELECTRICAL		OPER. WEIGHT lbs	FITTING/ACCESSORIES COMMENTS	MANUFACTURER AND MODEL NUMBER	DISCONNECT BY		STARTER BY	
			STUK		DESIGN COND °F DB/WB		CFM at alt.	EXT. SP inches	POWER	HP				MC	EC	MC	EC
			SENSIBLE	TOTAL	EAT	LAT											
AHU-1	–	M201 –	52,500	61,300	75 –	– –	2000	–	460–3–60	–	–	FLA – 32.3 –	LIEBERT 8U067A–AAE0	–	XX	–	XX
AHU-2	–	M201 –	52,500	61,300	75 –	– –	2000	–	460–3–60	–	–	FLA – 32.3 –	LIEBERT 8U067A–AAE0	–	XX	–	XX

REMOTE CONDENSER UNIT SCHEDULE

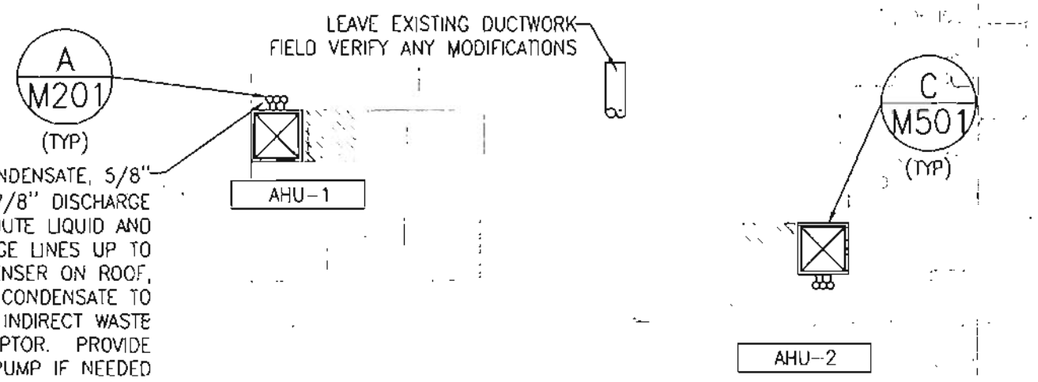
SYMBOL	LOCATION SERVICE	SHEET REF.	NOM. TONS	AMB. DEG F	ELECTRICAL		CONNECTION SIZES inches		REFRIGERANT	OPER. WEIGHT lbs.	FITTING/ACCESSORIES COMMENTS	MANUFACTURER AND MODEL NUMBER	DISCONNECT BY		STARTER BY	
					POWER	MCA	LIQ.	DISCH.					MC	EC	MC	EC
CU-1	–	M201 –	5	105	460–3–60	–	5/8	7/8	R–22	–	FLA – 2.4 –	LIEBERT CSF104–Z	–	XX	–	XX
CU-2	–	M201 –	5	105	460–3–60	–	5/8	7/8	R–22	–	FLA – 2.4 –	LIEBERT CSF104–Z	–	XX	–	XX

CONDENSING UNITS DRAWN FOR CLARIFICATION. FIELD VERIFY LOCATION





A REFRIGERANT PIPING DETAIL
NTS



CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 19 2006

06-167605

MECHANICAL ROOF AND FLOOR PLANS

SCALE: 1/8"=1'–0"

16'–0" 0 8'–0" 16'–0"

PERMIT SET

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GENERAL NOTE

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8-18-06

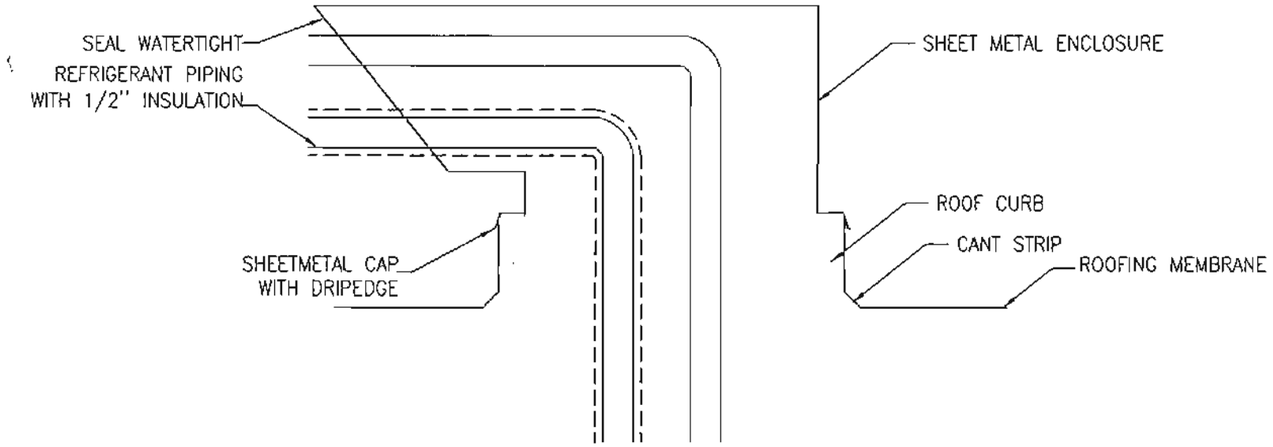
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756 So. Redwood Road • Box 25765 • Salt Lake City, Utah 84125 • (801) 973-9000 • Fax (801) 975-7204
Professional Mechanical Constructors/Engineers • Since 1961

DRAWN BY	VJF	SCALE 1/8"=1'–0"	DATE 8–11–06
CHECKED BY	MJM/GP	PLOT RATIO 1:1	
APPROVED BY	–	CONSTRUCTION MANAGER –	
DESIGNER/ ENGINEER	VJF/GP	PROJECT MANAGER –	

PROJECT NAME/ADDRESS
MEDICAL CENTER of AURORA
1501 SOUTH POTOMAC STREET
AURORA, CO 80012

DRAWING TITLE
MECHANICAL PLANS, SCHEDULES AND DETAILS

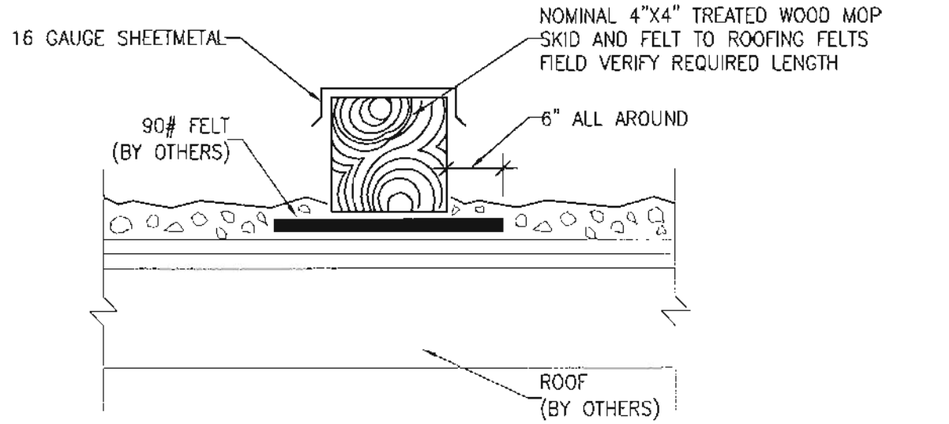
PROJECT #	DRAWING #	REV. #
666476	M201	A



A PIPING DROP DETAIL

NTS

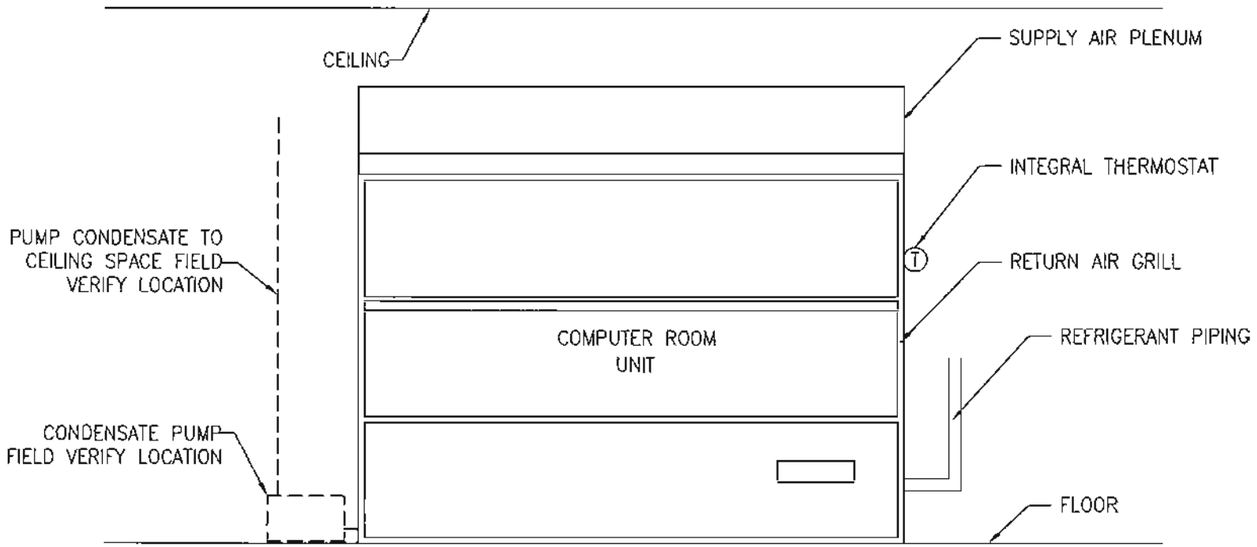
(AUGUST 2005)



B EQUIPMENT SKID DETAIL

NTS

(FEBRUARY 2004)



C COMPUTER ROOM UNIT DETAIL

NTS

(AUGUST 2005)

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
DATE APPROVED DEC 19 2006

06-167605

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GENERAL NOTE

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8-18-06

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DRAWN BY	VJF	SCALE	NTS	DATE	8-11-06
CHECKED BY	MJM/GP	PLOT RATIO	1:1		
APPROVED BY	—	CONSTRUCTION MANAGER	—		
DESIGNER/ ENGINEER	VJF/GP	PROJECT MANAGER	—		

PROJECT NAME/ADDRESS
MEDICAL CENTER of AURORA
1501 SOUTH POTOMAC STREET
AURORA, CO 80012

DRAWING TITLE
MECHANICAL DETAILS

PROJECT #	DRAWING #	REV. #
666476	M501	A

ELECTRICAL DRAWINGS

DWG #	DRAWING DESCRIPTION
E1.00	DRAWING INDEX, SYMBOLS, NOTES, & SPECIFICATIONS
E1.01	EQUIPMENT SCHEDULE & DETAILS
E1.02	ONE LINE DIAGRAM
E2.01	NEW & DEMO POWER & LIGHTING PLAN
E2.02	EXISTING OVERALL PLAN
E6.00	PANEL SCHEDULES

ELECTRICAL SYMBOLS

⊖	DUPLEX RECEPTACLE
◐	UPS RECEPTACLE
⊕	FOURPLEX RECEPTACLE
◀	SPECIAL PURPOSE RECEPTACLE
(J)	JUNCTION BOX
□	DISCONNECT
⊠	DISCONNECT WITH STARTER
⊘	FUSED DISCONNECT
$	SWITCH
▭	2' x 4' LAY-IN FIXTURE
▨	PANEL BOARD
T	DRY TYPE TRANSFORMER
EF-	DIV. 15 EQUIPMENT - SEE HVAC & PLUMBING DWG'S

SPECIFICATIONS

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. FINAL CONNECTIONS & ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
3. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTIONS OF THE ENGINEER.
4. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES AND ORDINANCES.
5. PROVIDE PERMITS AND INSPECTIONS REQUIRED.
6. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
7. PROVIDE RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
8. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
9. CONTRACTOR SHALL PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARM DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE.
10. SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE (BEYOND BRANCH CIRCUITS) SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.
11. WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
12. WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES OR AS OTHERWISE NOTED. THE DEVICE PLATES SHALL BE LEXAN OR NYLON. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY THE ENGINEER.
13. PROVIDE ENGRAVED NAMEPLATES ON SWITCHBOARDS, PANEL BOARDS, DISCONNECT SWITCHES, MOTOR CONTROL CENTERS, TRANSFORMERS, ETC. INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE.
14. PANEL DIRECTORIES SHALL BE REMOVABLE. SUBMIT PROPOSED SCHEDULE OF DIRECTORIES TO OWNER FOR APPROVAL. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
15. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE. FUSIBLE SWITCHES SHALL ACCEPT CLASS 'R' FUSES ONLY AND REJECT ALL OTHERS. INSTALL DISCONNECT SWITCH ON TWO 24" LONG UNISTRUT CHANNELS DRILLED AND BOLTED TO HVAC UNIT FRAME WHERE POSSIBLE (COORDINATE LOCATION WITH HVAC MANUFACTURER TO AVOID WARRANTY INFRACTIONS) SILICONE SEAL ALL HOLES IN UNIT.
16. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND FUSES SHALL BE BUSSMANN.
17. CONTRACTOR SHALL PROVIDE NEW UPDATED PANEL BOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT.
18. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. EMT FITTINGS SHALL BE STEEL CONNECTORS SHALL BE INSULATED THROAT TYPE.
19. CONTRACTOR SHALL METER PANEL FEEDER PHASE CONDUCTORS TO DETERMINE THE OVERALL BALANCE ON PHASES A,B,C. REARRANGE CIRCUITS TO OBTAIN A LESS THAN 15% DIFFERENTIAL BETWEEN ALL THREE PHASES.

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH 2005 NATIONAL ELECTRICAL CODE AND ALL AMENDMENTS PERTAINING TO LOCAL CODES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT. NOTIFY ARCHITECT AND GENERAL CONTRACTOR IMMEDIATELY UPON FINDING ANY DISCREPANCY.
3. ELECTRICAL, MECHANICAL, AND GENERAL CONTRACTORS SHALL VERIFY ALL ELECTRICAL LOADS, VOLTAGE, PHASE, CONNECTIONS REQUIREMENTS, ETC. OF EQUIPMENT REQUIRED FOR THIS PROJECT FROM APPROVED SHOP DRAWINGS BEFORE BEGINNING ROUGH-IN. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND GENERAL CONTRACTOR IMMEDIATELY.
4. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THRU ELECTRICAL ROOMS OR SPACE, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT AS PER N.E.C.
5. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS BY CONDUITS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACES PENETRATED. VERIFY WITH ARCHITECT.
6. PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL OUTLET BOXES WITH STAMPED KNOCKOUTS. MINIMUM DEPTH OF 1-1/2". BOXES WITH THREE OR MORE CONDUIT ENTRIES SHALL BE 4-SQUARE WITH 1 OR 2 GANG EXTENSION RING. JUNCTION BOXES SHALL BE SHEET STEEL WITH SCREW-ON COVERS.
7. PROVIDE COLOR CODING FOR CONDUCTORS AS FOLLOWS: BROWN/ORANGE/YELLOW/GRAY FOR 277/480V. - BLACK/RED/BLUE/WHITE FOR 120/208V.
8. WHEN CONDUCTOR SIZE IS INDICATED FOR A BRANCH CIRCUIT HOMERUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE ENTIRE CIRCUIT WITH NO REDUCTION IN WIRE SIZE.
9. CONDUITS SHALL BE EMT. CONDUITS SHALL BE SUPPORTED WITH CONDUIT CLAMPS, TRAPEZE HANGERS AND THREADED ROD ATTACH TO STRUCTURE AT INTERVALS NOT TO EXCEED 8 FEET. PROVIDE FLEXIBLE SEAL - TITE CONDUIT WITH GROUND CONDUCTOR BETWEEN DISCONNECT AND MOTOR. PROVIDE EXPANSION FITTINGS AS REQUIRED BY N.E.C.
10. CLEAN UP ALL EQUIPMENT, CONDUIT, PACKING CARTONS, ETC. AND OTHER DEBRIS RESULTING FROM THIS INSTALLATION. CLEAN INTERIORS AND EXTERIORS OF ALL EQUIPMENT AND REPLACE, OR REPAIR ALL ELECTRICAL EQUIPMENT UPON REQUEST AT SUBSTANTIAL COMPLETION.
11. DIMENSIONS INDICATING LOCATIONS OF DEVICES ARE TO BE TO THE TOP OF DEVICE BOX.
12. PROVIDE 1 SPARE 3/4" CONDUIT STUBBED OUT OF EACH FLUSH MOUNTED PANEL BOARD FOR EACH 3 SPARE CIRCUITS NOTED ON THE PANEL SCHEDULE. IF PANEL IS LOCATED ON A FLOOR ABOVE GRADE STUB 1/3 OF THE SPARE CONDUITS DOWN INTO THE ACCESSIBLE CEILING SPACE BELOW THE FLOOR THE PANEL IS LOCATED ON.
13. PROVIDE APPROVED FIRE STOPPING FOR ALL CONDUIT PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS.

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ARCHITECT
DESIGN WEST ARCHITECTS
255 SOUTH 300 WEST
LOGAN, UTAH 84321

GENERAL CONTRACTOR
LAYTON CONSTRUCTION COMPANY INC
9080 SOUTH SANDY PARKWAY
SANDY, UTAH 84070

ELECTRICAL ENGINEER
CACHE VALLEY ELECTRIC CO
2345 SOUTH JOHN HENRY DRIVE
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MECHANICAL ENGINEER
CCI MECHANICAL SERVICE
735 SOUTH REDWOOD ROAD
SALT LAKE CITY, UT 84104

HCA TECH REFRESH

OWNER
MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
DENVER, CO

REGISTERED PROFESSIONAL ENGINEER
28614
DAVID W. ROBERTS
12/7/06

FIRST FLOOR

N

REVISION
PERMIT SET - 8/24/06

HKS PROJECT NUMBER
10257.033
(CVE#10369-1026)

DATE
8/24/06

SHEET TITLE
DRAWING INDEX, SYMBOLS, NOTES, SPECIFICATIONS

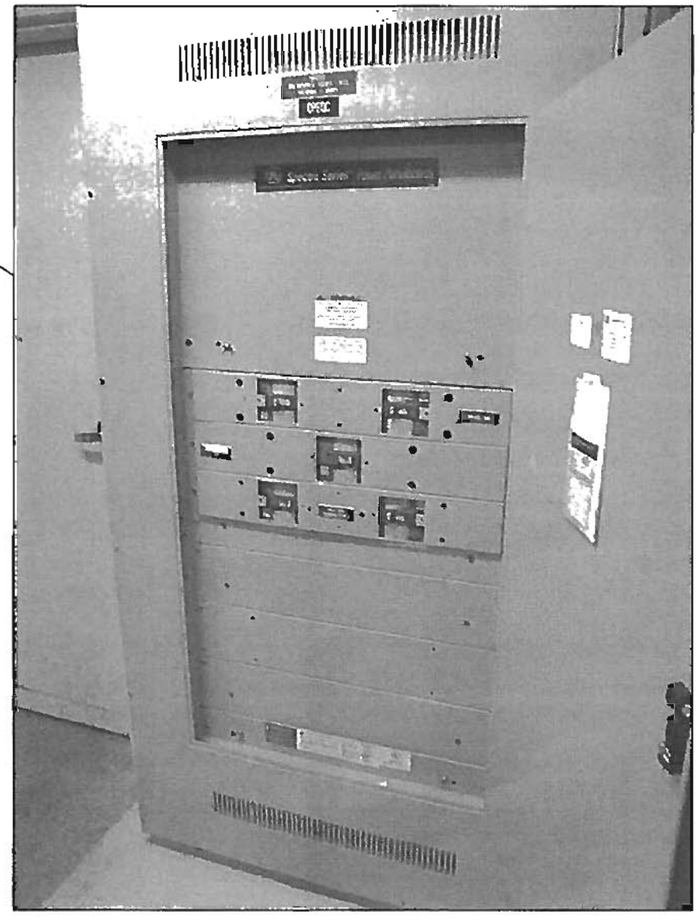
SHEET NO
E1.00

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR ELECTRICAL CODE COMPLIANCE

EQUIPMENT SCHEDULE

EQUIP #	DESCRIPTION–LOCATION	LOAD DATA QTY	HP	KW	MCA	FLA	MOCP	VOLT	PH	OVERCURRENT CONDUIT AND WIRE	OVERCURRENT DEVICE	DISCONNECT LOCATION	DISCONNECT DEVICE	STARTER LOCATION	STARTER DEVICE	STARTER LOCATION	STARTER SIZE	NOTES
AHU-1	AIR HANDLER UNIT	1			39.7	32.3	40	480	3	3#6, 1#8GND, 3/4"C	50/3 – CB	PNL1	60/3 (RK5-40)	ADJ TO UNIT	NA			1
AHU-2	AIR HANDLER UNIT	1			39.7	32.3	40	480	3	3#6, 1#8GND, 3/4"C	50/3 – CB	PNL1	60/3 (RK5-40)	ADJ TO UNIT	NA			1
CU-1	REMOTE CONDENSER UNIT	1			3.0	2.4	15	480	1	2#12, 1#12GND, 3/4"C	20/2 – CB	PNL1	30/2 (RK5-15)	ADJ TO UNIT	NA			1
CU-2	REMOTE CONDENSER UNIT	1			3.0	2.4	15	480	1	2#12, 1#12GND, 3/4"C	20/2 – CB	PNL1	30/2 (RK5-15)	ADJ TO UNIT	NA			1

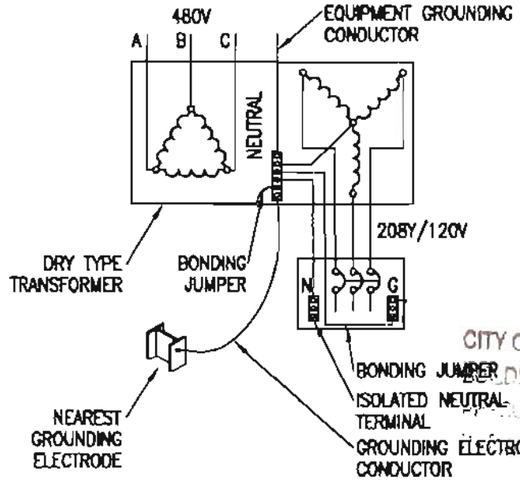
NOTES:
1. VERIFY ACTUAL NAMEPLATE INFORMATION FOR EACH PIECE OF EQUIPMENT.



SPACE FOR ADDITIONAL BREAKER.

PANEL 'DPEQC' DETAIL
SCALE: NONE

Comply with 2005 NEC
Article 408-4 and 30
Typical



TRANSFORMER GROUNDING DETAIL
SCALE: NONE

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

CITY OF AURORA
BUILDING DIVISION
APPROVED AS NOTED
12-5-06

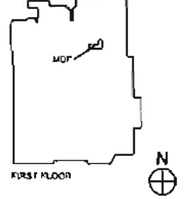
200616760 5

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ARCHITECT
DESIGN WEST ARCHITECTS
755 SOUTH 300 WEST
LOGAN, UTAH 84321
GENERAL CONTRACTOR
LAYTON CONSTRUCTION COMPANY INC
9080 SOUTH SANDY PARKWAY
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CO MECHANICAL SERVICE
755 SOUTH 850 WOOD ROAD
SALT LAKE CITY, UT 84104

HCA TECH REFRESH

OWNER
MEDICAL CENTER OF AURORA
1501 SOUTH POTOMAC STREET
DENVER CO

COLORADO REGISTERED 28612 DAVID W ROBERTS PROFESSIONAL ENGINEER
12/7/06



FIRST FLOOR

REVISION
PERMIT SET - 8/24/06

THIS PROJECT NUMBER
10257.033
(CVE#10369-1026)

DATE
8/24/06

SHEET TITLE
EQUIPMENT SCHEDULE & DETAILS

SHEET NO.
E1.01

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TRANSFORMER SCHEDULE

NUMBER	KVA	VOLTAGE	PHASE	TAPS	SEISMIC ANCHOR	REMARKS
T-1	45	480 DELTA – 208Y/120V	3	2-2 1/2% ABOVE AND BELOW NORMAL	1/2" DIA X 1" BOLT AT EACH CORNER	K-13 RATED

REFERENCE NOTES:

1. PROVIDE NEW 175A–3P (65KAIC) BREAKER FOR EXISTING GE PANEL.
2. PROVIDE 'HARDWIRED' TERMINATION.
3. PLACE BREAKERS IN PANEL TO BALANCE LOADS AS MUCH AS POSSIBLE.
4. FACILITY RECORDS SHOW EXISTING GENERATOR 'C' IS LOADED WITH 120A. UPON COMPLETION OF PROJECT THE GENERATOR IS TO BE RUN, LOADS RECORDED AND SENT TO ENGINEER.

Comply with 2005 NEC Article 700-5-D and E Typical

Comply with 2005 NEC Article 517-30-D Typical

Comply with 2005 NEC Article 517-30-A Typical

SHORT CIRCUIT CURRENT	
BUS	AIC (AMPS)
UTILITY	48,200
MSBA	44,650
ATS-1200	42,312
DPEQC	41,782
PNL1	9,092
PNL2	2,868

EXISTING GENERATOR 'C' 1250KW – 1562KVA 1879A (4)
1200A
800A
4 EA. – 350KCM/pH 100 FT.
3 EA. – 350KCM/pH 100 FT.

EXISTING 'DPGC' – 277/480V
1200A – 65KAIC (1)
KEY
1200A (NO)
1200A (NO)
1200A (NC)
10 FT.
35 FT.
10 FT.

EXISTING GENERATOR 'A' 600KW 750KVA 902A
4 EA. – 350KCM/pH 25 FT.
KEY
1200A (NC)
1200A (NO)
1200A – 65KAIC
EXISTING 'MTSA' – 277/480V
4 EA. – 350KCM/pH 25 FT.
EXISTING 'GPOPA' – 277/480V
1200A – 42KAIC
600A
225A
225A

EXISTING GENERATOR 'B' 600KW 750KVA 902A
4 EA. – 350KCM/pH 40 FT.
KEY
12200A (NC)
1200A (NO)
1200A – 65KAIC
EXISTING 'MTSB' – 277/480V
EXISTING 'SGOP' – 277/480V
1200A – 50KAIC
800A
600A

UTILITY
EXISTING UTILITY TRANSFORMER 277/480V SECONDARY 2000KVA – 5% 48,200AIC
11 EA. – 500KCM/pH 100 FT.
4000A EXISTING MSBA – 277/480V
4000A–100KAIC
800A
1200A
4 EA. – 350KCM/pH 25 FT.

EXISTING ATS–800 480V 800A
EXISTING ATS–1200 480V 1200A
4 EA. – 350KCM/pH 6 FT.

EXISTING PANEL 'DPEQC – 277/480V 1200A – 65KAIC (1)
EXIST 50A — SPARE
EXIST 20A — GENSET HEATER
EXIST 20A — GENSET HEATER
EXIST 175A — XFMR 'LPB'
EXIST 60A — PNL 'KH'
NEW 175A

AHU-1 CU-1 AHU-2 CU-2

'PNL1' 277/480V 175A
4#2/0AWG 1#6GND 2"C
3#3AWG 1#8GND 1-1/4"C
25 FT.

'PNL2' 120/208V 150A (3)
5#2/0AWG 1#6GND 2"C
25 FT.
T-1

CISCO 16KVA UPS (2)
SERVER 3KVA UPS
SERVER 3KVA UPS
NEMA L6–30R
2#2AWG, 1#2NEU, 1#6GND 1-1/4"C
2#10AWG, 1#10GND, 3/4"C

ONE LINE DIAGRAM
SCALE: NONE

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DENVER, CO

COLORADO REGISTERED PROFESSIONAL ENGINEER 28612 DAVID V. ROBERTS 12/7/06

AURORA BUILDING INSPECTION
ELECTRICAL SECTION
APPROVED
SUBJECT TO COMMENTS AS NOTED
AND FIELD INSPECTIONS

FIRST FLOOR

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1 - PLAN REVIEW COMMENTS

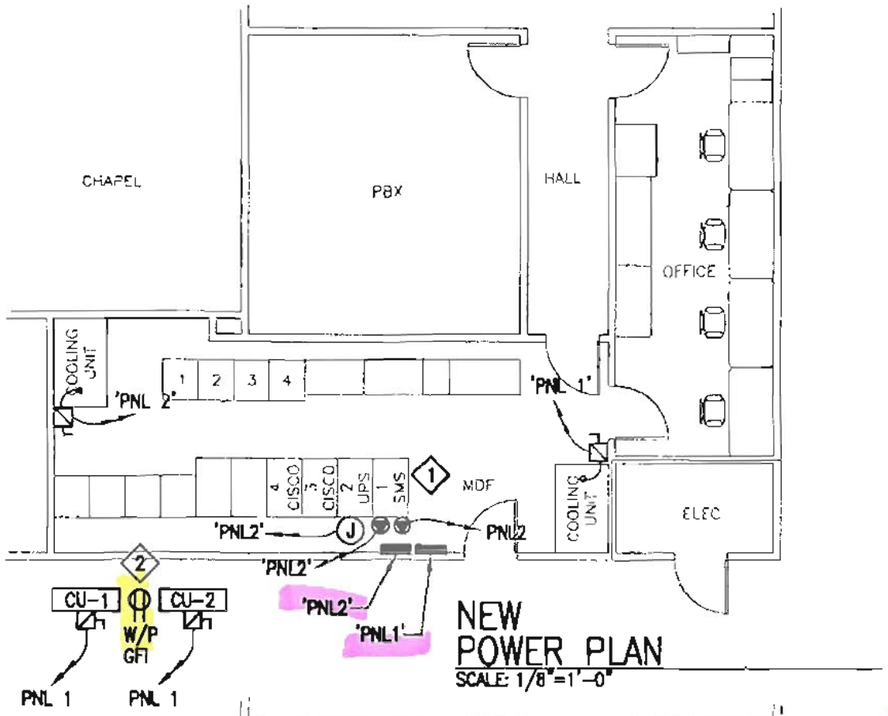
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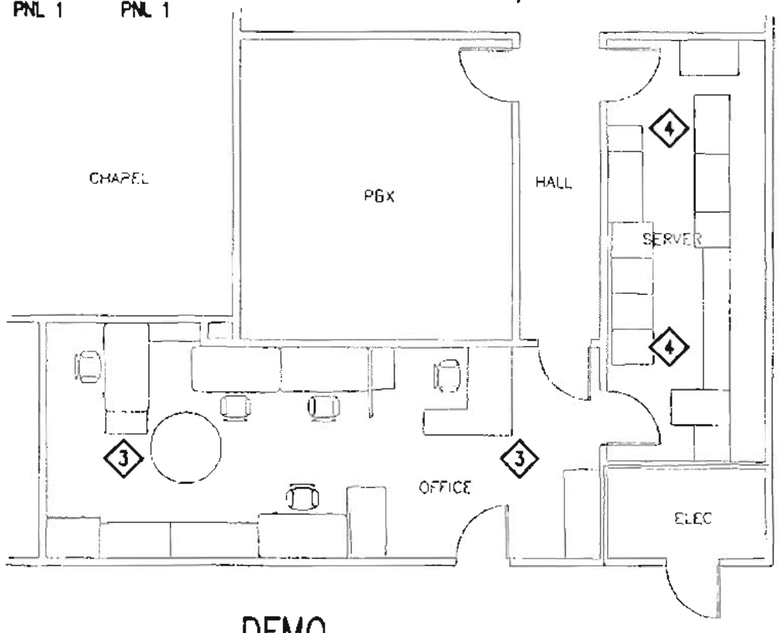
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BUILDING DIVISION
APPROVED AS NOTED
DATE 12/5/06
2006167605

SHEET TITLE
ONE LINE DIAGRAM

SHEET NO
E1.02



NEW POWER PLAN
SCALE: 1/8"=1'-0"



DEMO POWER PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. FINAL PLACEMENT OF CISCO UPS, PACS UPS AND SERVER RACK TO BE DETERMINED BY OWNER. COORDINATE FINAL ELECTRICAL CONNECTIONS WITH OWNER.

REFERENCE NOTES

1. LOCATE TRANSFORMER T-1 ABOVE ACCESSIBLE CEILING IN MDF ROOM WITHIN 25 FT. OF 'PNL2'.
2. PROVIDE RECEPTACLE FOR SERVICING MECH. EQUIPMENT. CONNECT TO NEAREST NORMAL POWER CIRCUIT.
3. REMOVE, RELAMP AND RE-INSTALL LIGHT FIXTURES. RE-LOCATE CIRCUITS FOR OFFICE FURNITURE TO NEW LOCATION.
4. REMOVE LIGHT FIXTURES AND REPLACE WITH THREE NEW 2x4 FT. PARABOLIC (3-LAMP) FIXTURES. RE-LOCATE CIRCUITS FOR SERVER EQUIPMENT TO NEW LOCATION.

Wiring in air handling spaces must comply with 2005 NEC 300-22, Firestop penetrations per 2005 NEC 300-21, Secure and support equipment per 2005 NEC 300-11

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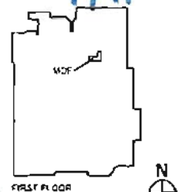
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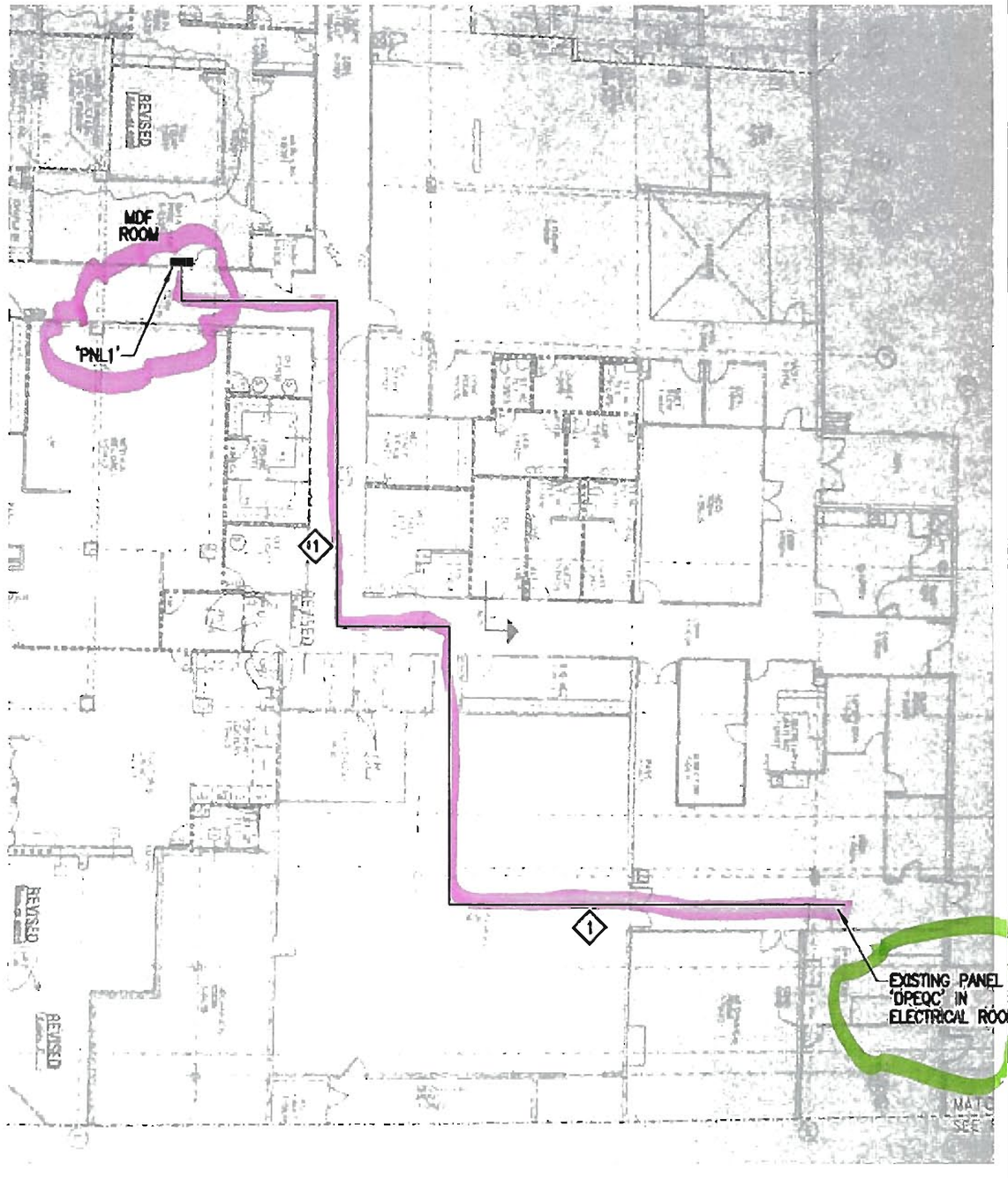


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SHEET TITLE
NEW/DEMO POWER PLAN

SHEET NO
E2.01

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EXISTING OVERALL PLAN

SCALE: NONE

REFERENCE NOTES

1. EXACT CONDUIT ROUTE FROM 'DPEQC' TO 'PNL1' TO BE DETERMINED IN THE FIELD.

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FOR CONSTRUCTION

CITY OF AURORA
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DATE
8/24/06

SHEET TITLE
EXISTING OVERALL PLAN

SHEET NO
E2.02

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PANELBOARD SCHEDULE

PANEL NAME: PNL1			VOLT: 277/ 480		PHASE: 3		WIRE: 4		PANEL AMPS: 175			MAIN: LUGS								
LOCATION: MDF ROOM			MOUNTING: SURFACE				FED FROM: DPEQC		AIC: 14,000			FULLY RATED								
ACCESSORIES: PANEL DIRECTORY, GROUNDING BAR																				
CIR NO.	DESCRIPTION	LHTS VA	PWR VA	CO VA	POLE	AMP	CIR kVA	PHASE LOAD A	B	C	CIR kVA	POLE	AMP	LHTS VA	PWR VA	CO VA	DESCRIPTION	CIR NO.		
1	AHU-1		8951		3	50	9.0	18.7			10	3	90	0	9731	0	PNL2 VIA XFMR T-1	2		
3	–		8951		–	–	9.0		18.7		10	–	–	0	9731	0	–	4		
5	–		8951		–	–	9.0			12.4	3	–	–	0	3462	0	–	6		
7	CU-1		576		2	20	0.6	0.6			0.0	1	20				SPACE	8		
9	–		576		–	–	0.6		0.6		0.0	1	20				SPACE	10		
11	SPACE				1	20	0.0			0.0	0.0	1	20				SPACE	12		
13	AHU-2		8951		3	50	9.0	9.0			0.0	1	20				SPACE	14		
15	–		8951		–	–	9.0		9.0		0.0	1	20				SPACE	16		
17	–		8951		–	–	9.0			9.0	0.0	1	20				SPACE	18		
19	CU-2		576		2	20	0.6	0.6			0.0	1	20				SPACE	20		
21	–		576		–	–	0.6		0.6		0.0	1	20				SPACE	22		
23	SPACE				1	20	0.0			0.0	0.0	1	20				SPACE	24		
CONNECTED LOAD TOTALS			PER PHASE kVA 28.8 28.8 21.4														TOTAL kVA 78.9			
			PER PHASE AMPS 103.9 103.9 77.1														AVERAGE AMPS PER PHASE 95			
DIVERSIFIED LOAD INFORMATION PER NEC																				
LIGHTING 0kVA @125% = 0 kVA			ALL OTHER LOADS @100% = 79 kVA														DIVERSIFIED TOTAL kVA = 79			
RECEPTACLES 0kVA @100% = 0 kVA			25% OF LARGEST MOTOR = 0 kVA														AVG AMPS PER PHASE = 95			
REMAINDER 0kVA @ 50% = 0 kVA																				

PANELBOARD SCHEDULE

PANEL NAME: PNL2			VOLT: 120/ 208		PHASE: 3		WIRE: 4		PANEL AMPS: 150			MAIN: BREAKER								
LOCATION: MDF ROOM			MOUNTING: SURFACE				FED FROM: PNL1		AIC: 10,000			FULLY RATED								
ACCESSORIES: PANEL DIRECTORY, GROUNDING BAR, 200% NEUTRAL																				
CIR NO.	DESCRIPTION	LHTS VA	PWR VA	CO VA	POLE	AMP	CIR kVA	PHASE LOAD A	B	C	CIR kVA	POLE	AMP	LHTS VA	PWR VA	CO VA	DESCRIPTION	CIR NO.		
1	CISCO UPS		8000		2	100	8.0	8.0			0.0	1	20				SPACE	2		
3	–		8000		–	–	8.0		9.7		1.7	2	30		1731		SERVER UPS	4		
5	SPACE				1	20	0.0			1.7	1.7	–	–		1731		–	6		
7	SPACE				1	20	0.0	0.0			0.0	1	20				SPACE	8		
9	SPACE				1	20	0.0		0.0		0.0	1	20				SPACE	10		
11	SPACE				1	20	0.0			1.7	1.7	2	30		1731		SERVER UPS	12		
13	SPACE				1	20	0.0	1.7			1.7	–	–		1731		–	14		
15	SPACE				1	20	0.0		0.0		0.0	1	20				SPACE	16		
17	SPACE				1	20	0.0			0.0	0.0	1	20				SPACE	18		
19	SPACE				1	20	0.0	0.0			0.0	1	20				SPACE	20		
21	SPACE				1	20	0.0		0.0		0.0	1	20				SPACE	22		
23	SPACE				1	20	0.0			0.0	0.0	1	20				SPACE	24		
CONNECTED LOAD TOTALS			PER PHASE kVA 9.7 9.7 3.5														TOTAL kVA 22.9			
			PER PHASE AMPS 81 81 28.8														AVERAGE AMPS PER PHASE 64			
DIVERSIFIED LOAD INFORMATION PER NEC																				
LIGHTING 0kVA @125% = 0 kVA			ALL OTHER LOADS @100% = 23 kVA														DIVERSIFIED TOTAL kVA = 23			
RECEPTACLES 0kVA @100% = 0 kVA			25% OF LARGEST MOTOR = 0 kVA														AVG AMPS PER PHASE = 64			
REMAINDER 0kVA @ 50% = 0 kVA																				

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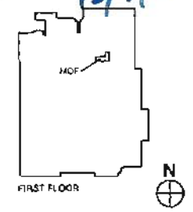
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PANEL SCHEDULES

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E6.00

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