PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

eu:a

eppstein uhen : architects

CONSTRUCTION DOCUMENTS

04/02/2012

PROJECT NUMBER: 310077-09

ABBREVIATIONS

A
- A/C air condition
- A/E Architect/Engineer
- ACT acoustical ceiling tile
- ADDL additional
- ADD addendum
- AFC above finished counter
- AFF above finished floor
- AFG above finished grade
- AFS above finished slab
- ALT alternate
- ALUM aluminum
- APPD approved
- APT apartment
- ASC above suspended ceiling

B
- BB baseboard
- BB bulletin board
- BLDG building
- BL blinds (window)
- BLT borrowed light
- BLW below
- BPL base plate
- BO bottom of
- BOS bottom of steel

C
- CB catch basin
- CB construction bulletin
- CF/ICI contractor furnished, contractor installed
- CF/OI contractor furnished, owner installed
- CF/VI contractor furnished, vendor installed
- CG corner guard
- CH BD chalkboard
- CIP cast-in-place
- CJ control joint

C (continued)
- CJ construction joint
- CL centerline
- CLG ceiling
- CLR clear
- CM construction management
- CMU concrete masonry unit
- CO cleanout
- COL column
- CONC concrete
- CORR corridor
- CONT continuous
- CPT carpet
- CSWK casework
- CT ceramic tile
- CTB ceramic tile base

D
- DEMO demolition
- DEPT department
- DF drinking fountain
- DFS door and frame schedule
- DIA diameter
- DR door
- DR FR door frame
- DTL detail
- DS downspout
- DW dishwasher
- DWG drawing

E
- E east
- E exterior insulation & finish system
- EIFS
- EL elevation
- EJ expansion joint
- ELEC electric, electrical
- ELEV elevator
- EPS expanded polystyrene board
- EQ equal
- EXIST existing
- EXP expand, expansion
- EXT exterior

F
- F female
- F filler
- FA fire alarm
- FA fluid applied
- FAB fabric
- FAX facsimile
- FC fire cabinet
- FD floor drain
- FEC fire extinguisher cabinet
- FHC fire hose cabinet
- FG foot grille
- FLR floor
- FM factory mutual
- FM floor mat
- FO finished opening
- FP fire protection
- FP fireproof
- FPL fireplace
- FT feet, foot
- FTG footing

G
- GA gauge
- GALV galvanized
- GB grab bar
- GC general contractor
- GL glass
- GLT glass tile
- GLU LAM glue laminated wood
- GR grade, grading
- GT grout
- GYP BD gypsum board

H
- HB hose bibb
- HC hollow core
- HCP handicapped
- HM hollow metal
- HORIZ horizontal
- HSKP housekeeping
- HGT height
- HVAC heating, ventilating & air conditioning
- HW hot water
- HWY highway

I
- ID inside diameter
- INSUL insulation
- INT interior

J
- JA janitor sink

L
- LAM laminate
- LAV lavatory
- LL live load

M
- MAX maximum
- MC modular carpet tile
- MECH mechanical
- MFR manufacturer
- MICRO microwave oven
- MIN minimum
- MIN minute
- MISC miscellaneous
- MO masonry opening
- MS mop sink
- MTL metal

N
- N north
- NA not applicable
- NIC not in contract
- NO number
- NM nominal
- NS no scale
- NTS not to scale

O
- OC on center
- OD outside diameter
- OF/ICI owner furnished, contractor installed
- OF/OI owner furnished, owner installed
- OF/VI owner furnished, vendor installed
- OH DR overhead (coiling) door
- OPH opposite hand
- OPNG opening

P
- PLYWD plywood
- PNL panel
- PREFAB prefabricated
- PREFIN prefinished
- PSI pounds per square inch
- PT paint, painted
- PTN partition

Q
- QT quarry tile
- QTB quarry tile base

R
- RB resilient base
- RCP reflected ceiling plan
- RD roof drain
- REBAR reinforcing steel bars
- REC recess
- REF reference
- REF refrigerator
- RF resilient flooring
- REV revision
- RFS room finish schedule
- RO rough opening
- RS resinous flooring
- RSB resinous flooring base

S
- S south
- SAN sanitary
- SC sealed concrete
- SC solid core
- SF square foot
- SIM similar
- SS solid surface
- SST stainless steel
- ST stain
- ST stair
- STN stone
- STNB stone base
- STRUCT structure

T
- T&M time & materials
- TEMP temperature
- TER terrazzo
- TERB terrazzo base
- TFF top of finish floor
- TKBD tackboard
- TO top of
- TOB top of beam
- TOC top of concrete
- TOJ top of joist
- TOPO topography
- TOS top of slab
- TOS top of steel
- TV television
- TYP typical

U
- UNO unless noted otherwise

V
- VEND vending machine
- VERT vertical
- VF/ICI vendor furnished, contractor installed
- VF/OI vendor furnished, owner installed
- VF/VI vendor furnished, vendor installed
- VNR veneer
- VIF verify in field

W
- W west
- W/ with
- W/O without
- WC water closet
- WC wall covering
- WD wood
- WDB wood base
- WOV wood veneer
- WH water heater
- WP wall protection
- WP workpoint

X
- XPS extruded polystyrene board (insulated)

SYMBOL LEGEND

CALLOUTS

19 TITLE 1/2" = 1'-0"
- VIEW NUMBER
- VIEW NAME
- VIEW SCALE

Level 0'-0" — ELEVATION DATUM

SIM 00 A000 — BUILDING SECTIONS

SIM 00 A000 — OTHER SECTIONS

1 2 3 4 A000 — ELEVATIONS

000 A000 — DETAILS

TAGS

- XXX 00 — WALL
- 000 — DOOR
- 000.000 — KEYNOTE
- 0 — REVISION
- 000 — FURNITURE
- 000 — EQUIPMENT
- XX 000 — WINDOW
- 000 W" x H" x D" — CASEWORK
- FLOOR / BASE / WALL / REMARKS — FINISH PLAN
- TYPE / HEIGHT — CEILING
- NAME 0000 — ROOM

GRAPHICS

NORTH ARROW

DIMENSION REFERENCES

EQ EQ EQ — TO OBJECT CENTER

5'-0" 5'-0" — TO OBJECT FACE OR OTHER GEOMETRY

CONSTRUCTION PHASES

EXISTING DEMOLITION NEW

GRID AND GRID IDENTIFICATION

NEW: B A 1 2

EXISTING: B A 1 2

PROJECT TEAM

ARCHITECTURAL
EPPSTEIN UHEN ARCHITECTS, INC.

333 East Chicago Street
Milwaukee, WI 53202
Phone: (414) 271-5350
www.eua.com

PROJECT CONTACT: Peter Kucha
DIRECT PHONE: (414) 291-8190
EMAIL ADDRESS: peterk@eua.com
CONTACT FAX: (414) 271-7794

STRUCTURAL
PIERCE ENGINEERS, INC.

241 North Broadway, Suite 500
Milwaukee, WI 53202
PHONE: (414) 278-6060
FAX: (414) 278-6061

PROJECT CONTACT: Chris Kuenzli
DIRECT PHONE: (414) 278-6020 x117
EMAIL ADDRESS: cmk@pierceengineers.com

MECHANICAL & FIRE PROTECTION
IBC ENGINEERING SERVICES, INC.

N8W22195 Johnson Drive, Suite 180
Milwaukee, WI 53186
PHONE: (262) 549-1190
FAX: (262) 549-1620

PROJECT CONTACT: Tom King
DIRECT PHONE: (262) 522-4417
EMAIL ADDRESS: tomk@ibcengineering.com

ELECTRICAL
POWRTEK ENGINEERING, INC.

20711 Watertown Road - Suite C
Waukesha, WI 53186
PHONE: (262) 827-9575
FAX: (262) 827-9615

PROJECT CONTACT: Greg Sadowski
DIRECT PHONE: (262) 827-9575 x200
EMAIL ADDRESS: gregs@powrtek.com

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ELECTRICAL
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CITY OF MILWAUKEE PROJECT NO. **PL12080726**

APPROVED:

4-5-2012
SUPERVISER IN CHARGE

4-5-2012
DIRECTOR

4/5/12
COMMISSIONER OF PUBLIC WORKS

eua

eppstein uhen : architects

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

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Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SHEET INDEX

G000

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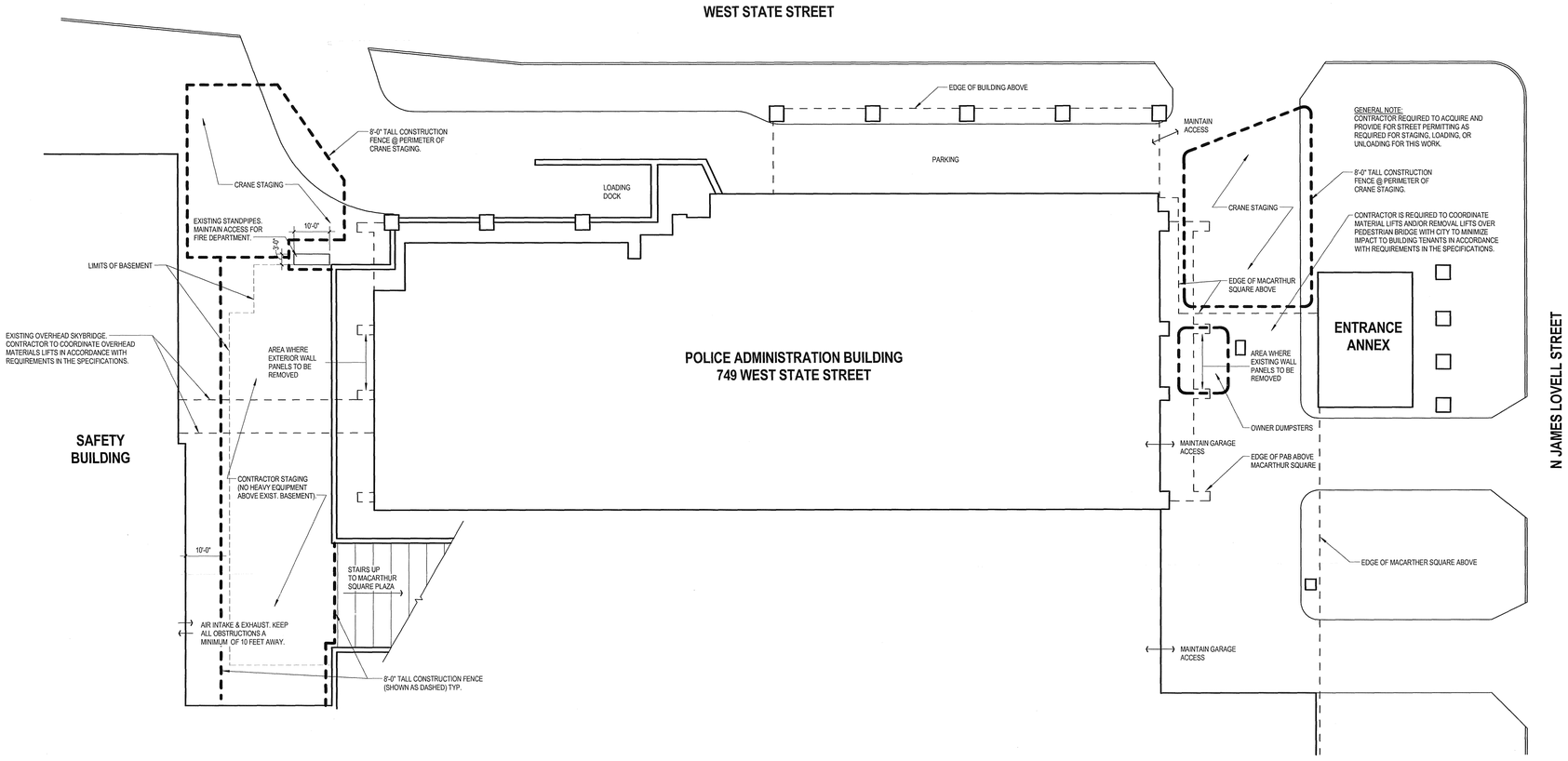

A1 PAB STAGING DIAGRAM
1/16" = 1'-0"

eu:a

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

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PLAN NORTH

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SITE STAGING PLAN

AS100

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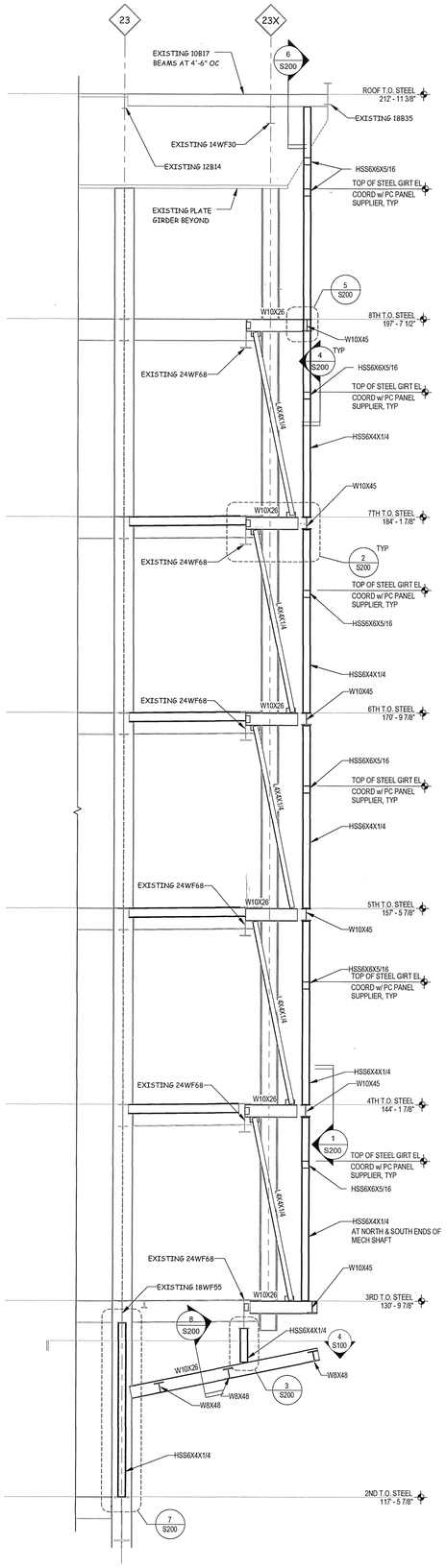


3 S100 SECTION THRU EXTERIOR SHAFT OPTION AT EAST / WEST WALLS

SCALE: NTS

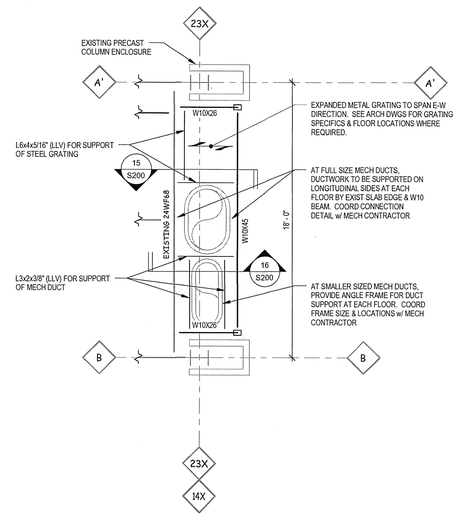
NOTE:
ALL EXTERIOR SHAFT STEEL FRAMING TO BE SHOP-PRIMED IN ACCORDANCE WITH STRUCTURAL STEEL SPECIFICATIONS.

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
3. USE A325N BOLTS UNLESS NOTED.
4. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
5. BEAM AND GIRDER CONNECTIONS SHALL BE AS NOTED ON PLANS AND IN DETAILS.
6. PROVIDE HOLES IN ALL STEEL AS REQUIRED TO PREVENT ANY ACCUMULATION OF WATER DURING ERECTION. ALL PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 11/2" IN DIAMETER AND SHALL BE GROUND SMOOTH.
7. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
8. PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
9. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

STEEL FRAMING NOTES

1. STEEL FRAMING MEMBERS HAVE BEEN SELECTED BASED UPON THE FOLLOWING LOADS:
   CLADDING DEAD LOAD AT EXTERIOR SHAFTS = 30 psf
2. BEAM CONNECTIONS SHALL BE DETAILED WHERE INDICATED ON THE CONSTRUCTION DOCUMENTS. WHERE CONNECTIONS ARE NOT DETAILED, THE FABRICATOR IS ALLOWED TO DETAIL THE CONNECTIONS BASED ON THE BEAM REACTIONS SHOWN AND THE FOLLOWING:
   A. ALL REACTIONS ARE SERVICE-LOAD LEVEL
   B. ASD SELECTION OF THE CONNECTION MATERIALS
   C. USE OF DETAIL 8/S200 AS A GUIDE FOR CONNECTION SELECTION
3. LATERAL STABILITY IS PROVIDED BY ATTACHMENT TO EXISTING STRUCTURE.
4. NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION.
5. ANY HOLES FIELD CUT INTO STEEL MUST BE VERIFIED w/ STRUCTURAL ENGINEER PRIOR TO WORK.
6. ALL STRUCTURAL STEEL FRAMING TO BE FIREPROOFED IN ACCORDANCE WITH SPECIFICATIONS AND NOT SHOP-PRIMED UNLESS NOTED OTHERWISE.



5 S100 DUCT / GRATING SUPPORT DETAIL

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

DESIGN DATA

DESIGN CODE:
March 1, 2008 Wisconsin amended 2006 I-Code

WIND LOAD INFORMATION:

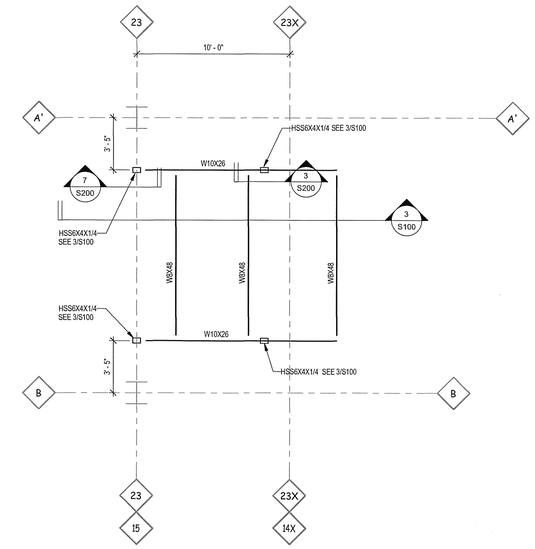
BASIC WIND SPEED	90 MPH		
BUILDING OCCUPANCY CATEGORY	IV		
WIND LOAD IMPORTANCE FACTOR (Iw)	1.15		
WIND EXPOSURE	B		
INTERNAL PRESSURE COEFFICIENTS	± 0.18		
COMPONENTS AND CLADDING (GROSS WIND PRESSURES):			
(FOR ZONE DEFINITIONS & DIAGRAMS SEE DESIGN GUIDE ASCE/SEI 7 SECTION 6)			
WIDTH OF PRESSURE COEFFICIENT ZONE (a)	8.4 ft MAX		
TRIBUTARY WIND LOAD AREAS:	10 ft²	50 ft²	100 ft²
ROOF (MONOSLOPE):			
NEGATIVE ZONE 1	-41.9 psf	-37.5 psf	-35.6 psf
NEGATIVE ZONE 2	-61.3 psf	-55.1 psf	-52.4 psf
NEGATIVE ZONE 3	-61.3 psf	-55.1 psf	-52.4 psf
POSITIVE PRESSURE ALL ZONES	10 psf	10 psf	10 psf
WALLS:			
ZONE 4	+/-31.2 psf	+/-29.9 psf	+/-29.0 psf
ZONE 5	+/-50.5 psf	+/-45.6 psf	+/-41.9 psf

SEISMIC LOAD INFORMATION:

SEISMIC USE GROUP / OCCUPANCY CATEGORY	IV
SEISMIC LOAD IMPORTANCE FACTOR (Ie)	1.50
SEISMIC SITE CLASS	D
MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	0.108
MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.045
SPECTRAL RESPONSE COEFFICIENT (Sds)	0.115
SPECTRAL RESPONSE COEFFICIENT (Sd1)	0.072
SEISMIC DESIGN CATEGORY	C
BASIC SEISMIC FORCE RESISTING SYSTEM	EXISTING STEEL MOMENT FRAMES
ANALYSIS PROCEDURE	N/A PER IEBC SECTION 807.5

SNOW LOAD INFORMATION:

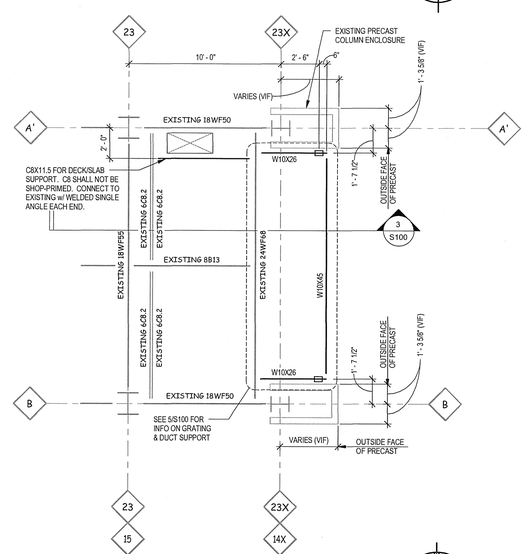
GROUND SNOW LOAD (Pg)	30 psf
SNOW LOAD IMPORTANCE FACTOR (Is)	1.00
SNOW EXPOSURE FACTOR (Ce)	1.20
THERMAL FACTOR (Ct)	1.00 (1.2 AT CANOPY)
FLAT ROOF SNOW LOAD (Pf)	25.2 psf
DESIGN/BALANCED SNOW LOAD (Ps)	25.2 psf + DRIFT



4 S100 PARTIAL FRAMING PLAN AT EAST / WEST WALLS

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

NOTE:
ALL EXTERIOR SHAFT STEEL FRAMING TO BE SHOP-PRIMED IN ACCORDANCE WITH STRUCTURAL STEEL SPECIFICATIONS.



2 S100 PARTIAL 3RD FLOOR PLAN AT EAST / WEST WALLS

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

NOTE:
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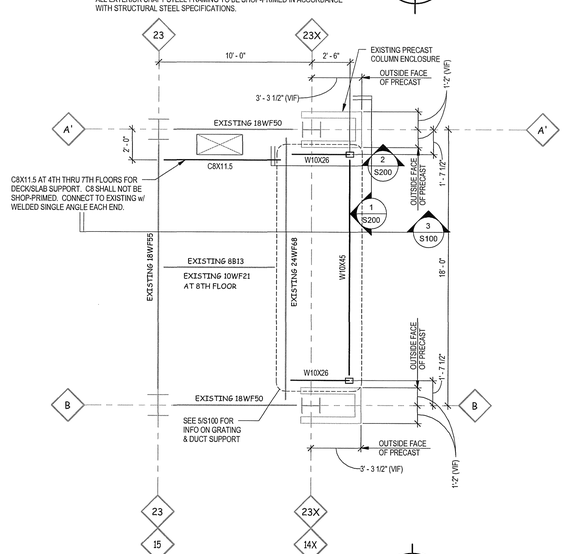


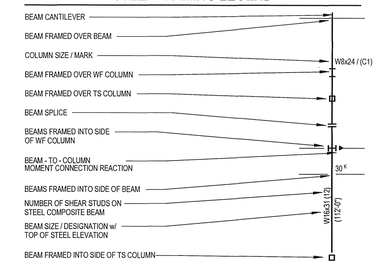
1 S100 PARTIAL 4TH-8TH FLOOR PLAN AT EAST / WEST WALLS

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

NOTE:
ALL EXTERIOR SHAFT STEEL FRAMING TO BE SHOP-PRIMED IN ACCORDANCE WITH STRUCTURAL STEEL SPECIFICATIONS.

ALL INFORMATION CONCERNING EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. NOTIFY ENGINEER FOR POSSIBLE REMEDIAL ACTION IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN HERE.

STEEL FRAMING LEGEND



MATERIAL DESIGN PROPERTIES

STRUCTURAL STEEL STRENGTHS:

WF SHAPES (ASTM A992)	Fy = 50,000 psi
ANGLES, CHANNELS, PLATES, & BARS (ASTM A36)	Fy = 36,000 psi
SQUARE & RECTANGULAR TS OR HSS SECTIONS (ASTM A500, GRADE B)	Fy = 46,000 psi
ROUND HSS SECTIONS (ASTM A500, grade B)	Fy = 42,000 psi
STEEL PIPE (ASTM A53, grade B)	Fy = 35,000 psi
HIGH STRENGTH BOLTS (ASTM A325)	

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PIERCE ENGINEERS, Inc.
241 North Broadway, Suite 500
Milwaukee, WI 53202
414.278.6000
414.278.6061 fax
PE Project: 11088

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FRAMING PLAN & DETAILS

S100

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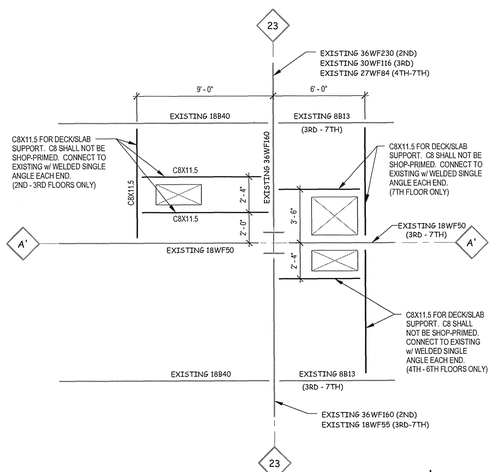
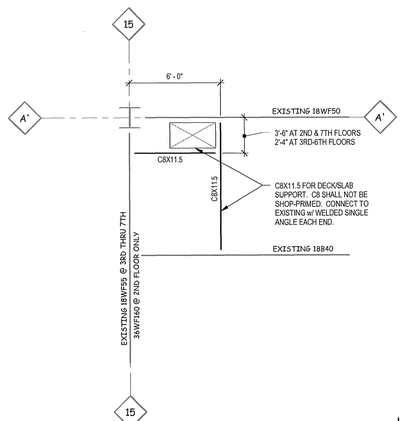
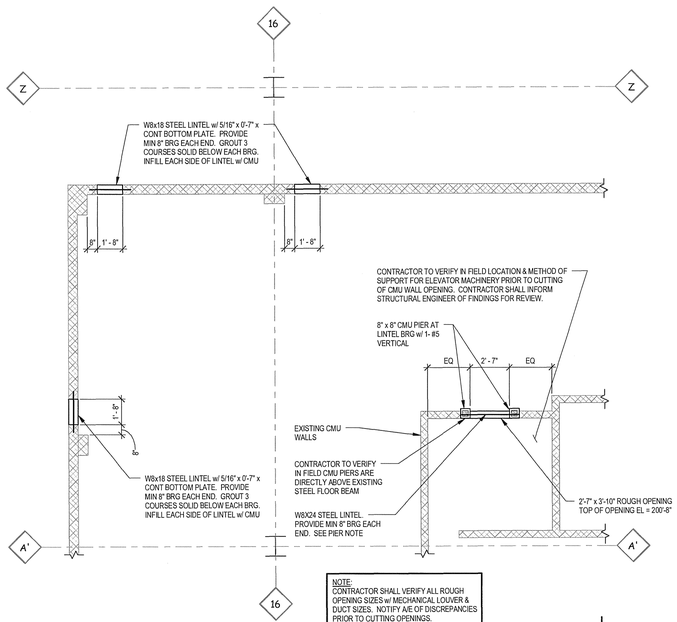


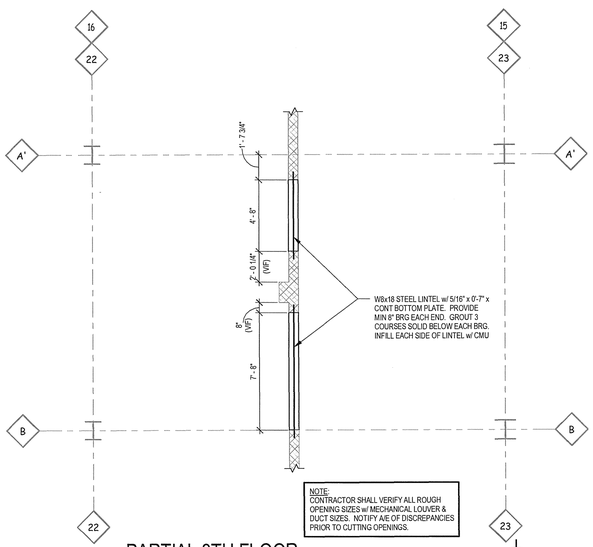
5 S101 PARTIAL 2ND-7TH FLOOR PLAN
SCALE : 1/4" = 1'-0"



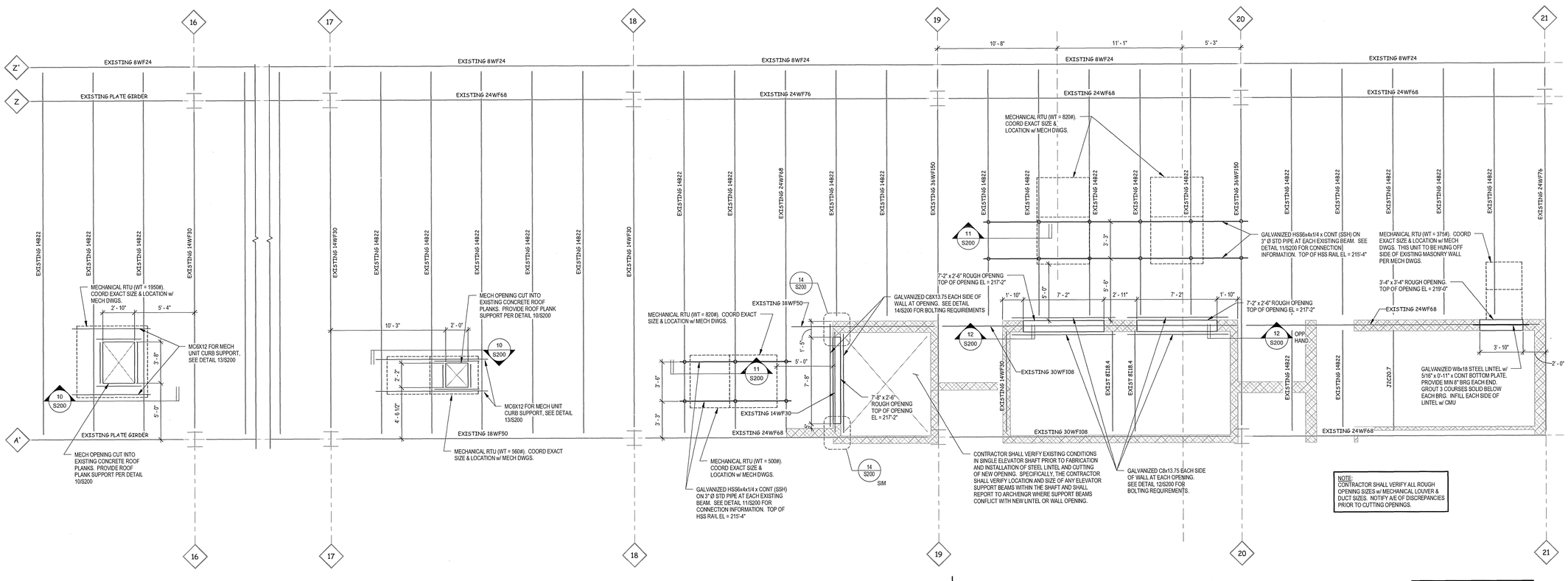
4 S101 PARTIAL 2ND-7TH FLOOR PLAN
SCALE : 1/4" = 1'-0"



3 S101 PARTIAL 8TH FLOOR PLAN
SCALE : 1/4" = 1'-0"



2 S101 PARTIAL 8TH FLOOR PLAN AT EAST / WEST WALLS
SCALE : 1/4" = 1'-0"



1 S101 PARTIAL EXISTING ROOF PLAN
SCALE : 1/4" = 1'-0"

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eu:a

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6660

PIERCE ENGINEERS, Inc.
241 North Broadway, Suite 500
Milwaukee, WI 53202
414.278.6060
414.278.6061 fax
PE Project: 11088

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PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

ROOF FRAMING PLAN

S101

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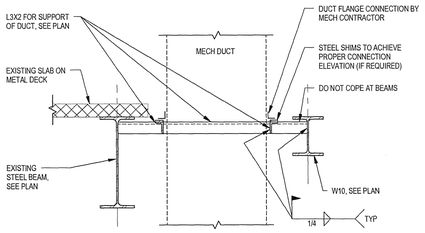
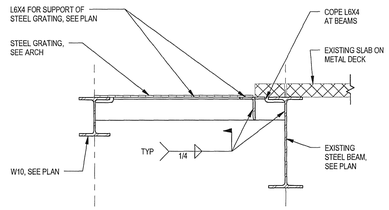
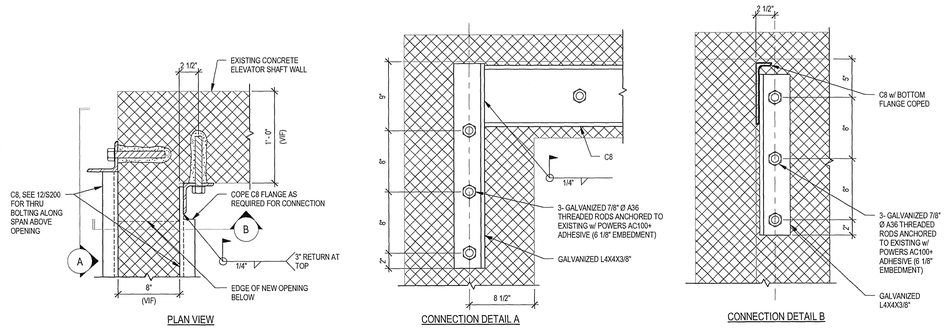


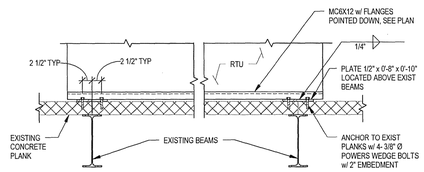
16 S200 DUCT SUPPORT DETAIL
SCALE: NTS



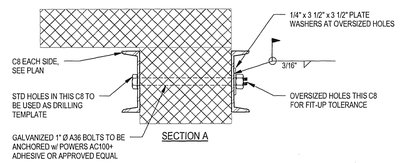
15 S200 GRATING SUPPORT DETAIL
SCALE: NTS



14 S200 C8 LINTEL CONNECTION DETAIL
SCALE: NTS

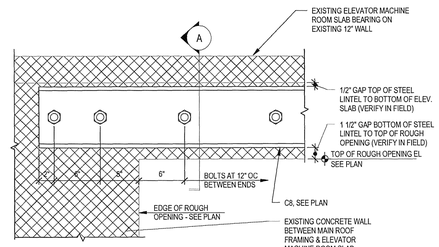


13 S200 RTU CURB SUPPORT DETAIL
SCALE: NTS

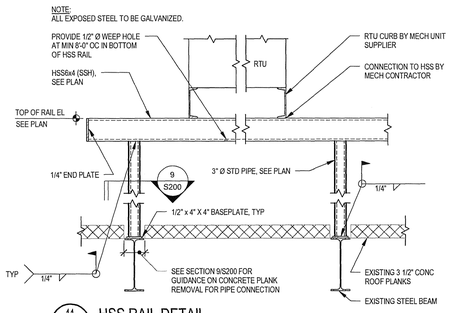


NOTE:
ALL EXPOSED STEEL TO BE GALVANIZED.

12 S200 C8 LINTEL DETAIL
SCALE: NTS



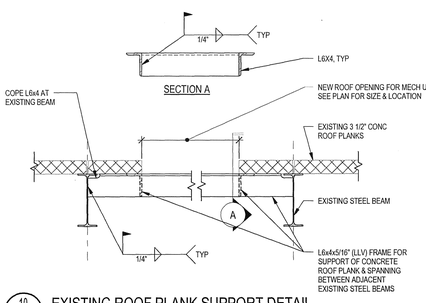
NOTE:
ALL EXPOSED STEEL TO BE GALVANIZED.



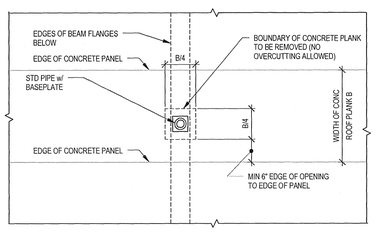
11 S200 HSS RAIL DETAIL
SCALE: NTS

CONNECTION SCHEDULE

MINIMUM BEAM SIZE	NUMBER OF BOLTS	L (in)	WELD SIZE (in)
W8,W10	2	5 1/2"	3/16"
W12,W14	3	8 1/2"	3/16"

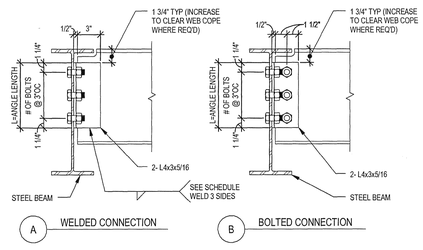


10 S200 EXISTING ROOF PLANK SUPPORT DETAIL
SCALE: NTS

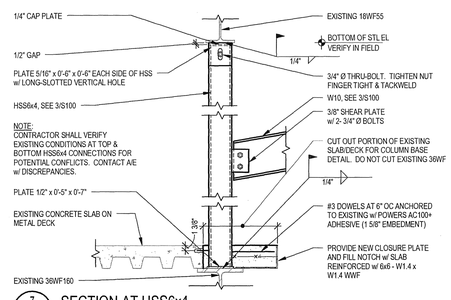


NOTE:
CONTRACTOR TO VERIFY ABOVE CONDITIONS TO BE SATISFIED PRIOR TO ANY CONCRETE CORING / CUTTING. IF ABOVE CONDITIONS CANNOT BE SATISFIED w/ RAIL LOCATIONS SHOWN ON PLAN, CONTACT DESIGN ENGINEER FOR ADDITIONAL GUIDANCE.

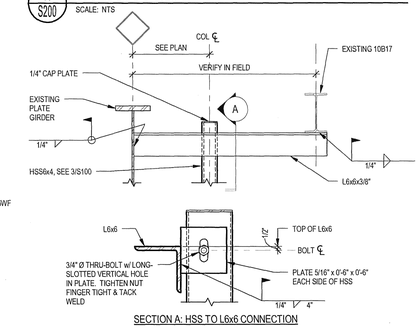
9 S200 PLAN VIEW AT RAIL POST CONNECTION
SCALE: NTS



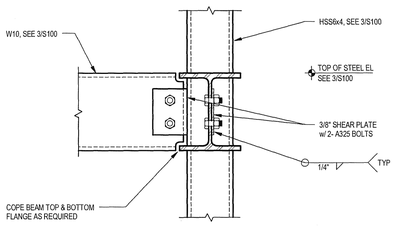
8 S200 TYPICAL BRACKET CONNECTION AT TYP BEAM TO BEAM OR BEAM TO COL
SCALE: NTS



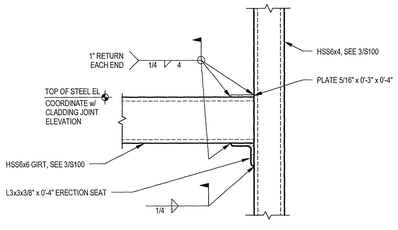
7 S200 SECTION AT HSS6x4
SCALE: NTS



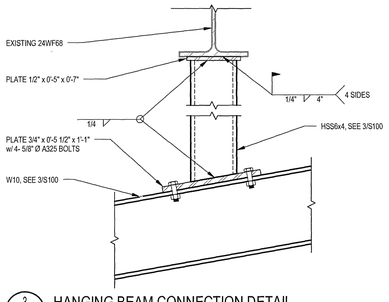
6 S200 COLUMN TOP CONNECTION
SCALE: NTS



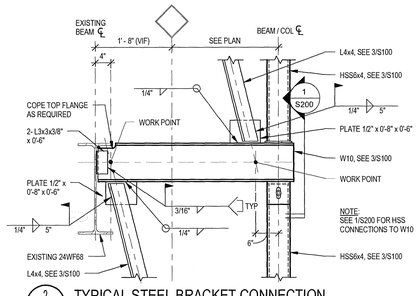
5 S200 BEAM TO COLUMN CONNECTION
SCALE: NTS



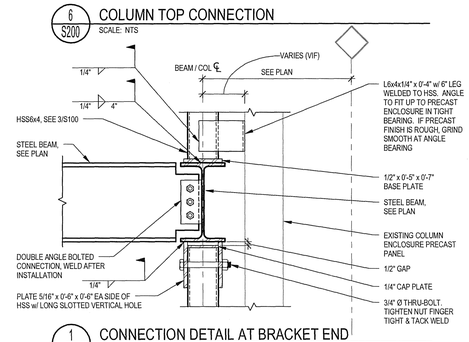
4 S200 GIRT CONNECTION DETAIL
SCALE: NTS



3 S200 HANGING BEAM CONNECTION DETAIL
SCALE: NTS



2 S200 TYPICAL STEEL BRACKET CONNECTION
SCALE: NTS



1 S200 CONNECTION DETAIL AT BRACKET END
SCALE: NTS

ALL INFORMATION CONCERNING EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL FABRICATION. NOTIFY ENGINEER FOR POSSIBLE REMEDIAL ACTION IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN HERE.

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PIERCE ENGINEERS, Inc.
241 North Broadway, Suite 500
Milwaukee, WI 53202
414.278.6060
414.278.6061 fax
PE Project 11088

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FRAMING DETAILS

S200

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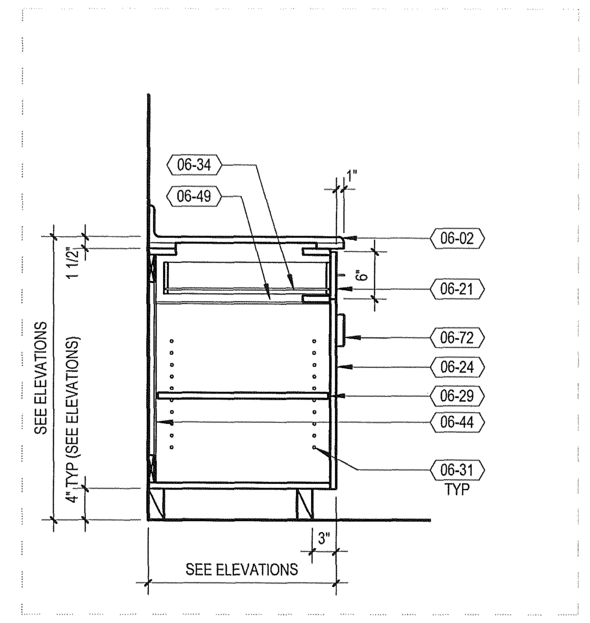
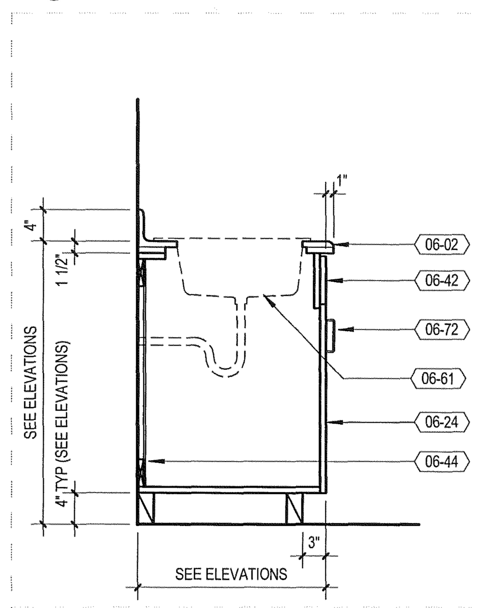
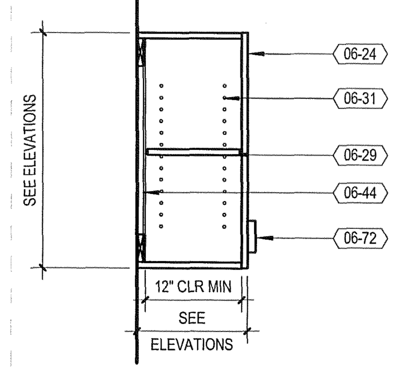
1 2 3 4 5 6 7



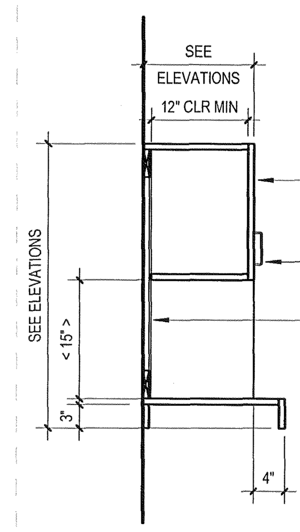
12 211-212-222 Door with Top Dwr
3/4" = 1'-0"



10 151-152 Sink
3/4" = 1'-0"



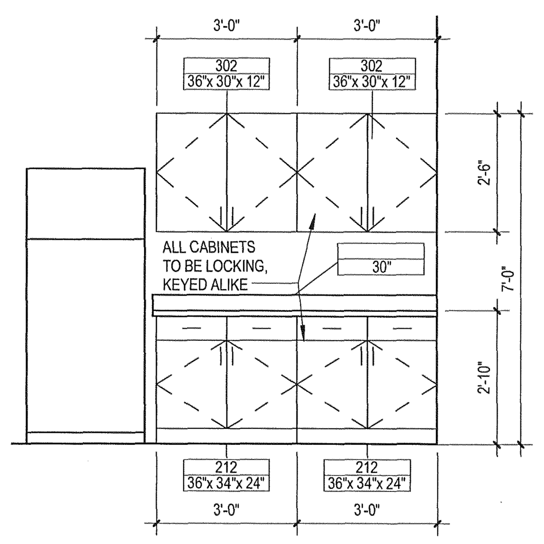
11 301 - 302 Door
3/4" = 1'-0"



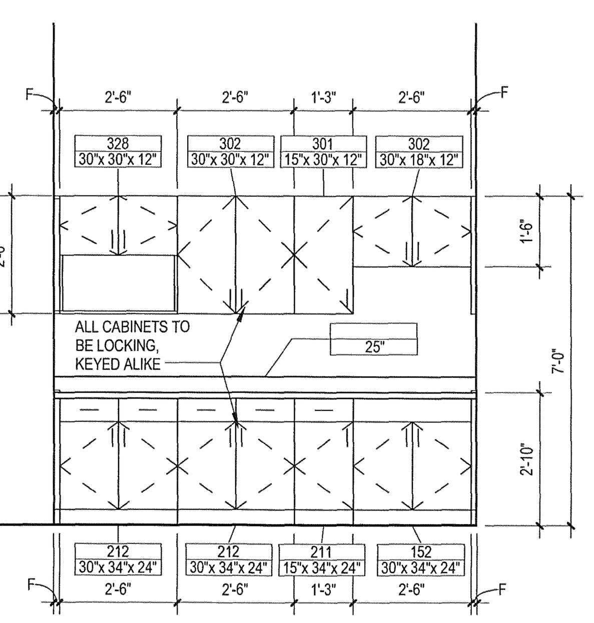
9 327-328 Microwave UCL
3/4" = 1'-0"

MILLWORK KEYED NOTES

06-01	CEMENT BOARD
06-02	<SCHED MAT> COUNTERTOP, RADIUS EDGE, 4" COVE BACKSPLASH TYP, SEE ELEVATIONS
06-21	<SCHED MAT> DRAWER FRONT
06-24	<SCHED MAT> HINGED DOOR
06-29	<SCHED MAT> ADJUSTABLE SHELF, SEE SHELVING DIAGRAM SHEET <A000> FOR QTY
06-31	1 1/2" OC HOLE FOR <SCHED MAT> SHELF PIN TYP
06-34	<SCHED MAT> DRAWER BOTTOM
06-42	<SCHED MAT> FIXED PNL
06-44	<SCHED MAT> BACK PNL
06-49	<SCHED MAT> DUST SHIELD ABOVE ALL DRAWERS UNLESS DIRECTLY BELOW COUNTERTOP
06-61	SINK <WITH OFFSET TRAP> & TRIM BY OTHERS, COORDINATE COUNTERTOP OPNG
06-72	<SCHED MAT> WIRE PULL, 4" CENTER-TO-CENTER UNLESS NOTED OTHERWISE



7 Elevation 1 - C
3/8" = 1'-0"



8 Elevation 1 - D
3/8" = 1'-0"

MATERIAL SCHEDULE							
CODE	DESCRIPTION	MANUFACTURER	PRODUCT #	COLOR	FINISH	SIZE	REMARKS
A							
ACT-1	ACOUSTICAL CEILING TILE	USG	562 FISSURED	WHITE	-	2'X4'	1
ACT-2	ACOUSTICAL CEILING TILE	TO MATCH EXISTING	TO MATCH EXISTING	WHITE	-	2'X2'	2
ACT-3	ACOUSTICAL CEILING TILE	ARMSTRONG	OPTIMA OPEN PLAN - SQUARE TEGULAR	WHITE	-	2'X2'	3
C							
CMT-BD	CEMENT BOARD						23
CPT-1	CARPET	INTERFACE OR EQUAL	-	-	-	50CM X 50 CM	4
CPT-2	CARPET	INTERFACE OR EQUAL	TO BE DETERMINED	TO BE DETERMINED	-	50CM X 50 CM	5
CPT-3	CARPET	LEES	DK 973 EMERGING LIGHTS	AZURITE	-	24"X24"	6
CPT-4	CARPET	TANDUS	LANDFORM #03297	FORGED IRON 65011	-	24"X24"	7
L							
LAM-1	LAMINATE	FORMICA	7011-43	AFRICAN LIMBA	ARTISAN FINISH	-	8
LAM-2	LAMINATE	FORMICA	7022-58	NATURAL CANVAS	MATTE	-	9
P							
PC-1	PAINTED CONCRETE	-	-	-	-	-	10
PT-1	PAINT	SHERWIN WILLIAMS HARMONY	TO BE DETERMINED	TO BE DETERMINED	EGGSHELL	-	11
PT-2	PAINT	SHERWIN WILLIAMS HARMONY	TO BE DETERMINED	TO BE DETERMINED	SATIN	-	12
PT-3	PAINT	SHERWIN WILLIAMS HARMONY	SW 7642	PAVESTONE	EGGSHELL	-	13
PT-4	PAINT	SHERWIN WILLIAMS HARMONY	SW 7642	PAVESTONE	SATIN	-	14
PT-5	PAINT	SHERWIN WILLIAMS HARMONY	SW 7006	EXTRA WHITE	FLAT	-	15
PT-6	PAINT	SHERWIN WILLIAMS HARMONY	SW 7567	NATURAL TAN	EGGSHELL	-	19
R							
RB-1	RESILIENT BASE	JOHNSONITE	-	TO MATCH EXISTING	-	MATCH EXISTING HEIGHT	16
RB-2	RESILIENT BASE	JOHNSONITE	-	TO MATCH EXISTING	-	MATCH EXISTING HEIGHT	17
RB-3	RESILIENT BASE	JOHNSONITE	29	MOONROCK	-	MATCH EXISTING HEIGHT	18
RF-1	RESILIENT FLOOR	MANNINGTON COMMERCIAL	BRUSHWORKS	TO MATCH EXISTING	-	12"X12"	-
S							
ST-1	STAIN	TO MATCH EXISTING	-	TO MATCH EXISTING	-	-	-
W							
WDB	WOOD BASE	TO MATCH EXISTING		TO MATCH EXISTING		1X2	

MATERIAL SCHEDULE GENERAL NOTES AND REMARKS

GENERAL NOTES

A	CONTRACTOR TO PROVIDE PRODUCT SAMPLE SUBMITTALS ON ALL FINISHES FOR ARCHITECTS REVIEW AND APPROVAL PRIOR TO ORDERING PRODUCT
B	CONTACT ARCHITECT PRIOR TO INSTALLING CARPET FOR INSTALLATION DIRECTION
C	MATERIAL PRICES NOTED DO NOT INCLUDE SUB CONTRACTOR MARK UP, TAX, FRIEGHT, ACCESSORIES, ADHESIVES, INSTALLATION, GENERAL CONTRACTOR MARK UPS, INSURANCE, OVERTIME, ETC...
D	CONTRACTOR TO INCLUDE JOHNSONITE RUBBER TRANSITION STRIPS AT ALL CARPET TO RESILIENT FLOOR TRANSITIONS, COLOR TO BE DETERMINED. USE SMALLEST PROFILE POSSIBLE
E	IN AREAS INDICATED TO BE PAINTED LIMIT PAINTING TO NEW WALL SURFACES ONLY.

REMARKS

1	15/16" GRID, WHITE
2	15/16" GRID, WHITE
3	15/16" GRID, WHITE
4	2ND FLOOR WEST - DISTRICT ATTORNEY, INCLUDE ALLOWANCE OF $25.00 MATERIAL ONLY CARPET TILE
5	4TH FLOOR EAST - HR, INCLUDE ALLOWANCE OF $25.00 MATERIAL ONLY CARPET TILE
6	6TH FLOOR EAST & WEST SIDE - SALVAGE EXISTING CARPET TILE TO REINSTALL
7	7TH FLOOR EAST & WEST NEW CARPET TILE, INSTALLATION METHOD TO BE ASHLAR
8	NEW CABINETS IN FIRST FLOOR EAST BREAK ROOM
9	NEW COUNTER TOPS IN FIRST FLOOR EAST BREAK ROOM
10	-
11	GENERAL OFFICE PAINT - MATCH EXISTING
12	HOLLOW METAL DOOR FRAME PAINT - MATCH EXISTING
13	7TH FLOOR GENERAL OFFICE PAINT
14	HOLLOW METAL DOOR FRAMES WHERE PT-3 IS USED
15	DRYWALL SOFFITS OR CEILNGS
16	CONTRACTOR TO USE LONGEST LENGHTS OF RUBBER BASE
17	CONTRACTOR TO USE LONGEST LENGHTS OF RUBBER BASE
18	CONTRACTOR TO USE LONGEST LENGHTS OF RUBBER BASE
19	GENERAL WALL PAINT FOR CITY ATTORNEY - FIRST FLOOR EAST BREAK ROOM
20	ACCENT WALL PAINT FOR CITY ATTORNEY - FIRST FLOOR EAST BREAK ROOM, NORTH WALL ONLY
21	PAINT ON NEW WALL AND CEILING SURFACES ONLY
22	DO NOT PAINT WOOD PANELING
23	AT LOCATIONS INDICATED TO RECEIVE CEMENT BOARD CEILING, PROVIDE 18 GA 4" STUD BACKUP-UP FRAMING @ 24" O.C. WITH HANGER RODS SUSPENDED FROM STRUCTURE ABOVE. SKIM COAT ENTIRE CEMENT BOARD CEILING. PRIME AND PAINT FINISH SURFACE

TEMPORARY DOOR AND FRAME SCHEDULE

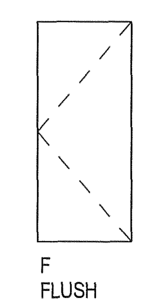
	DOOR					FRAME						
	SIZE							DETAIL				
NUMBER	LEAF QTY	LEAF WIDTH	HGT	TYPE	MAT	TYPE	MAT	HEAD	JAMB	HDWE TAG	RATING (MIN)	REMARKS
200E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
200W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
300E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
300W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
400E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
400W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
500E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
500W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
600E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
600W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
700E	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		
700W	1	3'-0"	7'-0"	F	HM	01	HM	138/A001	138/A001	2		

NEW DOOR AND FRAME SCHEDULE

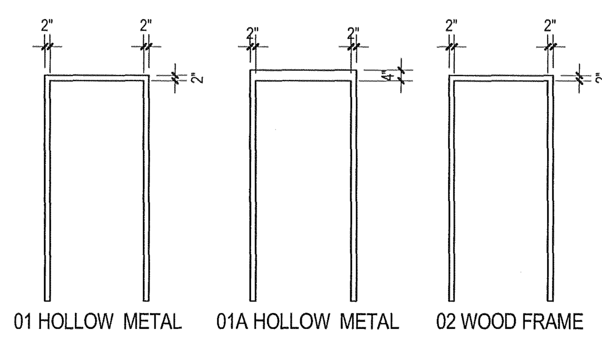
	DOOR						FRAME							
	SIZE									DETAIL				
NUMBER	LEAF QTY	LEAF WIDTH	HGT	TYPE	MAT	FIN	TYPE	MAT	FIN	HEAD	JAMB	HDWE TAG	RATING (MIN)	REMARKS
200A	1	3'-0"	7'-0"	F	WD	ST	01	HM	PT	138/A001	138/A001	1A		
300A	1	3'-0"	7'-0"	F	HM	PT	01	HM	PT	138/A001	138/A001	1A		
400A	1	3'-0"	7'-0"	SR	WD	ST	01	HM	PT	138/A001	138/A001	1A		
700A	1	3'-0"	7'-0"	--	WD	ST	--	WD	ST	14/A001	14/A001	1A		1
700B	2	1'-6"	6'-8"	--	WD	ST	--	WD	ST	14/A001	14/A001	3		1
801	1	2'-6"	7'-0"	F	WD	PT	01	HM	PT	138/A001	138/A001	4	90 MIN	
B43	1	3'-0"	7'-0"	F	HM	PT	01	HM	PT	13/A001	13/A001 SIM	1		

DOOR AND FRAME SCHEDULE GENERAL NOTES AND REMARKS

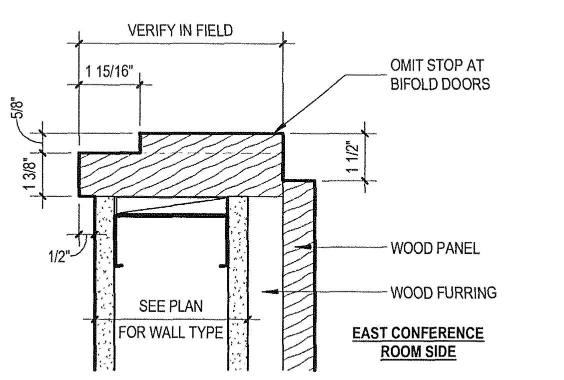
GENERAL NOTES
A TEMPORARY DOORS AND FRAMES REQUIRE A PRIMER ONLY.
B ALL TEMPORARY DOOR AND FRAMES SHALL BE SALVAGED AND TURNED OVER TO OWNER.
REMARKS
1 REUSE EXISTING SALVAGED DOOR AND FRAME



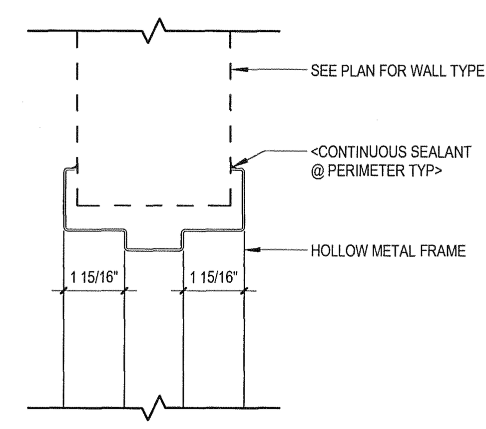
DOOR TYPES
1/4" = 1'-0"



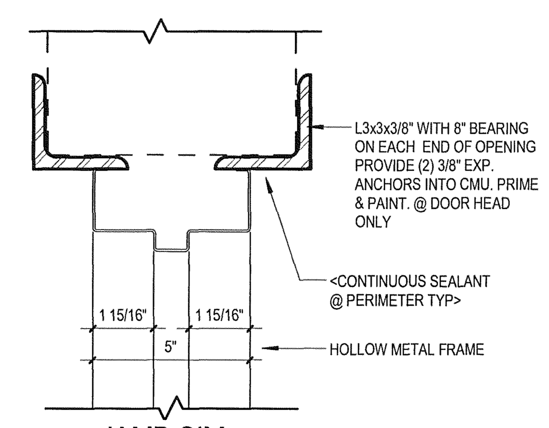
FRAME TYPES
1/4" = 1'-0"



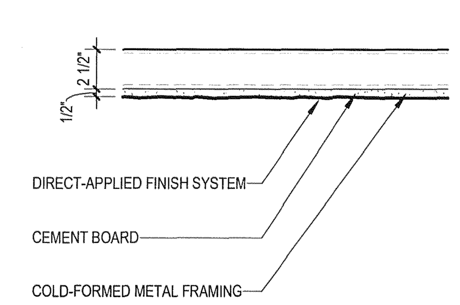
14 WD DOOR HEAD/JAMB
3" = 1'-0"



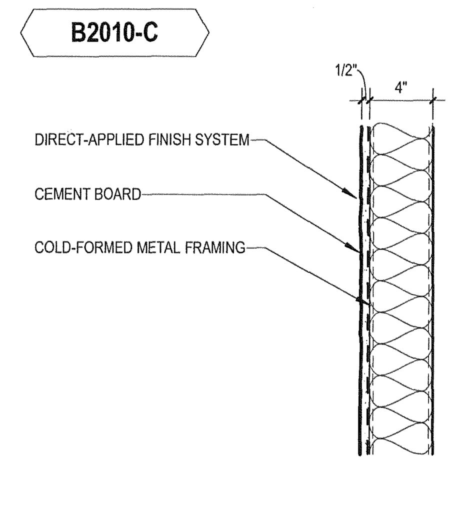
138 HM DOOR HEAD - GYP BD
3" = 1'-0"



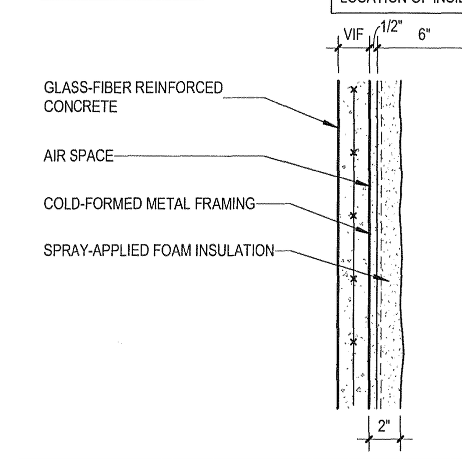
13 HM DOOR HEAD - EXISTING CMU
3" = 1'-0"



DIRECT-APPLIED FINISH SYSTEM OVER CEMENT BOARD OVER COLD-FORMED METAL FRAMING AT 24" O.C. PROVIDE HANGER RODS CONNECTED TO EXISTING STRUCTURAL ROOF BEAMS ABOVE. SUPPORT FROM ROOF DECK NOT ALLOWED

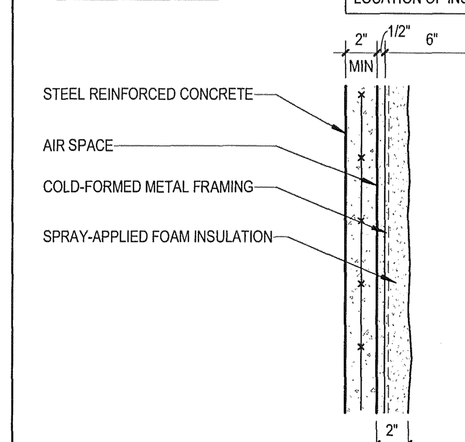


DIRECT-APPLIED FINISH SYSTEM OVER CEMENT BOARD OVER COLD-FORMED METAL FRAMING AT 24" O.C.



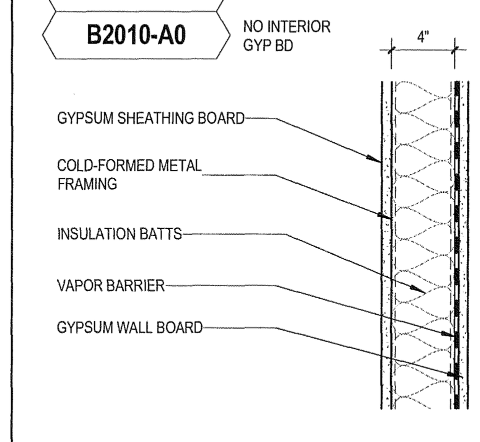
A/E HAS ASSUMED A 6" STUD FOR DESIGN INTENT PURPOSES ONLY. FINAL STUD SIZE TO BE DETERMINED BY PANEL ENGINEER. LOCATION OF INSIDE FACE OF STUD TO HOLD

GFRC WALL PANEL CONSISTING OF GLASS-FIBER REINFORCED CONCRETE OVER AIR SPACE OVER COLD-FORMED METAL FRAMING WITH METAL CONNECTOR BETWEEN FRAMING AND CONCRETE. ALL MISCELLANEOUS METALS REQUIRED FOR PANEL ATTACHMENT TO STEEL SUBFRAME BY PANEL SUPPLIER. PROVIDE SPRAY FOAM INSULATION AT INSIDE FACE OF REINFORCED CONCRETE SURFACE

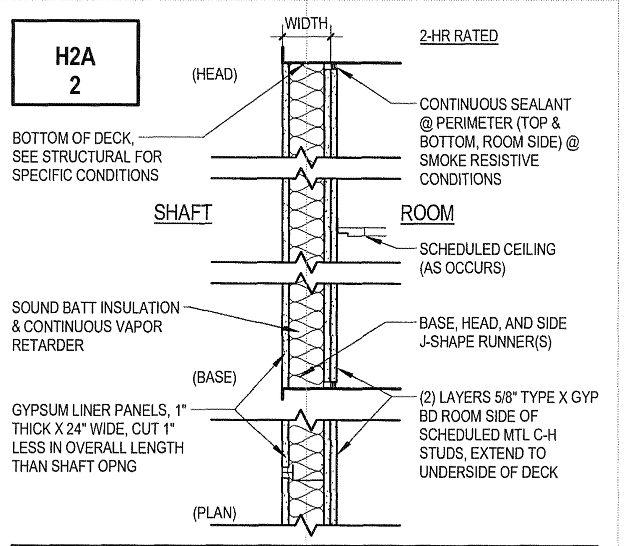


A/E HAS ASSUMED A 6" STUD FOR DESIGN INTENT PURPOSES ONLY. FINAL STUD SIZE TO BE DETERMINED BY PANEL ENGINEER. LOCATION OF INSIDE FACE OF STUD TO HOLD

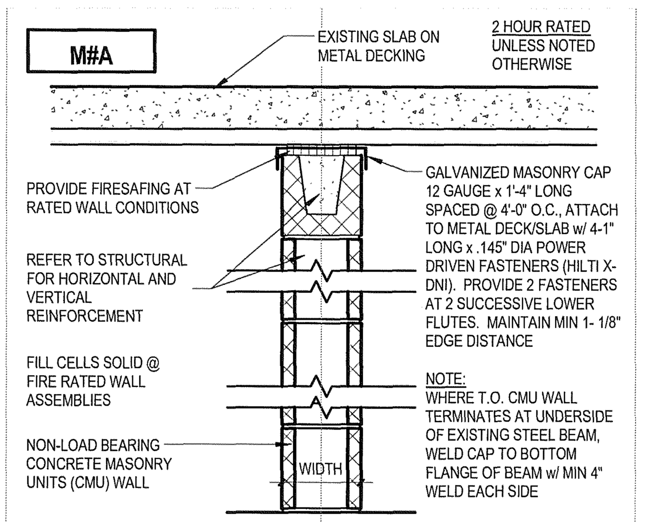
PRECAST CONCRETE WALL PANEL CONSISTING OF REINFORCED CONCRETE OVER AIR SPACE OVER COLD-FORMED METAL FRAMING WITH METAL CONNECTOR BETWEEN FRAMING AND CONCRETE. ALL MISCELLANEOUS METALS REQUIRED FOR PANEL ATTACHMENT TO STEEL SUBFRAME BY PANEL SUPPLIER. PROVIDE SPRAY FOAM INSULATION AT INSIDE FACE OF REINFORCED CONCRETE SURFACE



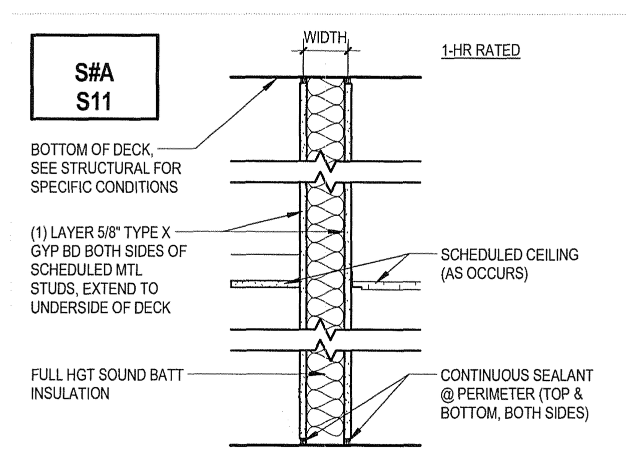
GYPSUM SHEATHING BOARD OVER 16 GA. COLD-FORMED METAL STUDS WITH BATT INSULATION IN STUD CAVITY. GYPSUM WALL BOARD OVER VAPOR BARRIER ON INSIDE FACE OF COLD-FORMED METAL FRAMING. ALL JOINTS IN EXTERIOR GYPSUM SHEATHING BOARD TO BE FILLED WITH SEALANT



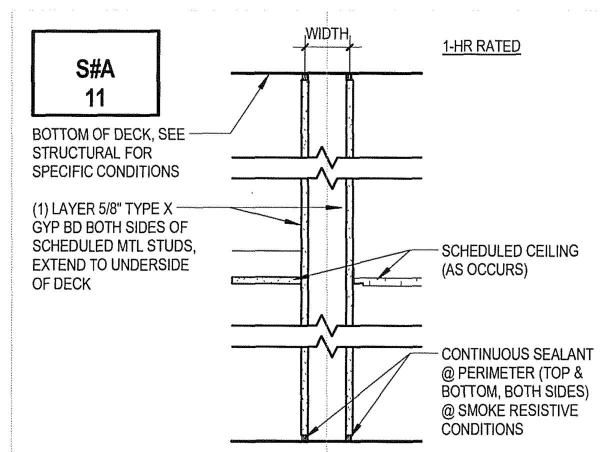
WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
H2A - 2	2-1/2" C-H MTL STUDS	3-1/8"	-	-



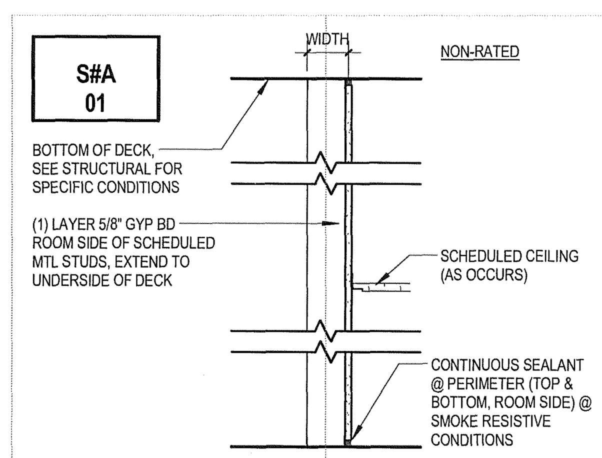
WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
M2A	2" CONC MASONRY UNIT	1-5/8"	-	-
M4A	4" CONC MASONRY UNIT	3-5/8"	-	-
M6A	6" CONC MASONRY UNIT	5-5/8"	-	-
M8A	8" CONC MASONRY UNIT	7-5/8"	-	-
M10A	10" CONC MASONRY UNIT	9-5/8"	-	-
M12A	12" CONC MASONRY UNIT	11-5/8"	-	-



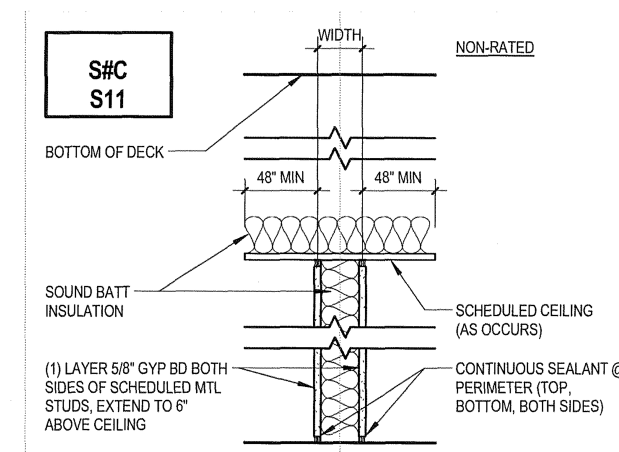
WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
-	-	-	-	-
S1A - S11	1-5/8" MTL STUDS	2-7/8"	-	-
S2A - S11	2-1/2" MTL STUDS	3-3/4"	-	-
S3A - S11	3-5/8" MTL STUDS	4-7/8"	-	-
S4A - S11	4" MTL STUDS	5-1/4"	-	-
S6A - S11	6" MTL STUDS	7-1/4"	-	-



WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
-	-	-	-	-
S1A - 11	1-5/8" MTL STUDS	2-7/8"	-	-
S2A - 11	2-1/2" MTL STUDS	3-3/4"	-	-
S3A - 11	3-5/8" MTL STUDS	4-7/8"	UL U465	42-47
S4A - 11	4" MTL STUDS	5-1/4"	UL U465	-
S6A - 11	6" MTL STUDS	7-1/4"	UL U465	-



WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
S0A - 01	7/8" MTL FURRING CHANNELS	1-1/2"	-	-
S1A - 01	1-5/8" MTL STUDS	2-1/4"	-	-
S2A - 01	2-1/2" MTL STUDS	3-1/8"	-	-
S3A - 01	3-5/8" MTL STUDS	4-1/4"	-	-
S4A - 01	4" MTL STUDS	4-5/8"	-	-
S6A - 01	6" MTL STUDS	6-5/8"	-	-



WALL TYPE #	DESCRIPTION	WIDTH	REF TEST	STC
-	-	-	-	-
S1C - S11	1-5/8" MTL STUDS	2-7/8"	-	-
S2C - S11	2-1/2" MTL STUDS	3-3/4"	-	-
S3C - S11	3-5/8" MTL STUDS	4-7/8"	-	-
S4C - S11	4" MTL STUDS	5-1/4"	-	-
S6C - S11	6" MTL STUDS	7-1/4"	-	-

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

EXTERIOR/INTERIOR WALL ASSEMBLIES, SCHEDULES

A001

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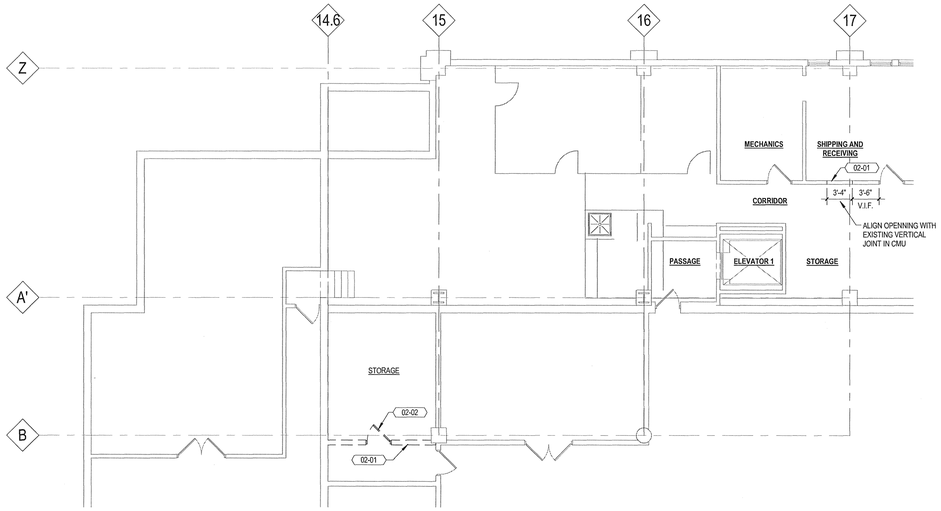
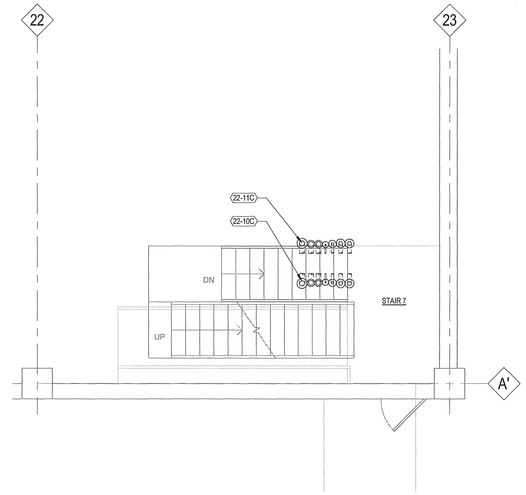
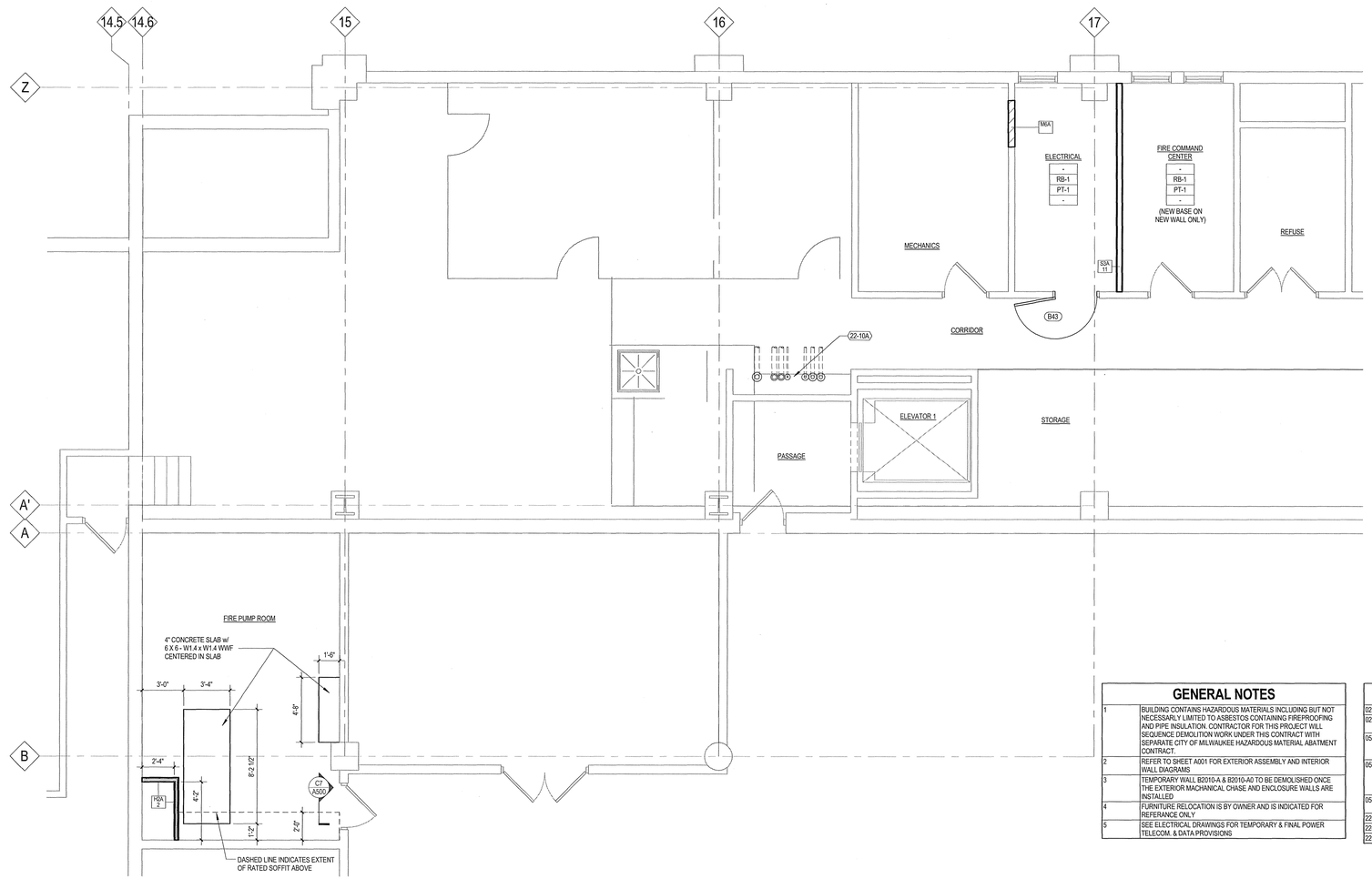
1 2 3 4 5 6 7



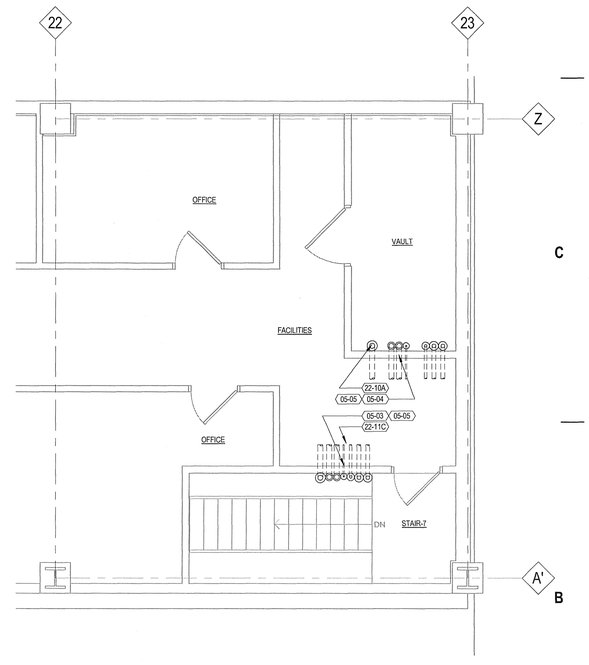
D1 BASEMENT WEST DEMOLITION
1/8" = 1'-0"



D5 MEZZANINE EAST
1/4" = 1'-0"



A1 BASEMENT PLAN WEST
1/4" = 1'-0"



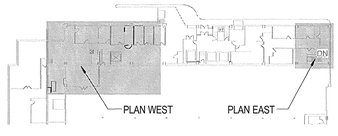
A5 BASEMENT PLAN EAST
1/4" = 1'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
2	REFER TO SHEET A001 FOR EXTERIOR ASSEMBLY AND INTERIOR WALL DIAGRAMS.
3	TEMPORARY WALL B2010-A & B2010-A0 TO BE DEMOLISHED ONCE THE EXTERIOR MACHANICAL CHASE AND ENCLOSURE WALLS ARE INSTALLED
4	FURNITURE: RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
05-03	CMU LINTEL ABOVE PIPE CHASE (4'-0 SPAN MAX). CUT IN L4 X 3 X 5/16" LLV ON EACH SIDE OF WALL. PROVIDE 8" BEARING AT JAMBS. PAINT NEW LINTEL TO MATCH WALL.
05-04	CMU LINTEL ABOVE PIPE CHASE (5'-6" SPAN MAX). CUT IN L4 X 3 X 5/16" LLV ON EACH SIDE OF WALL. PROVIDE 8" BEARING AT JAMBS. CMU BETWEEN PIPE CLUSTERS TO REMAIN. PAINT NEW LINTEL TO MATCH WALL.
05-05	PATCH OPENINGS BETWEEN PIPING TO RETAIN EXISTING FIRE RATINGS.
22-10A	NEW PLUMBING CORED FROM ABOVE
22-10C	NEW PLUMBING ROUTED FROM FLOOR ABOVE
22-11C	NEW PLUMBING ROUTED TO FLOOR BELOW



A7 BASEMENT KEYPLAN
1" = 50'-0"

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 2717794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

BASEMENT PLAN

A100.1

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E7 FIRST FLOOR KEYPLAN
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
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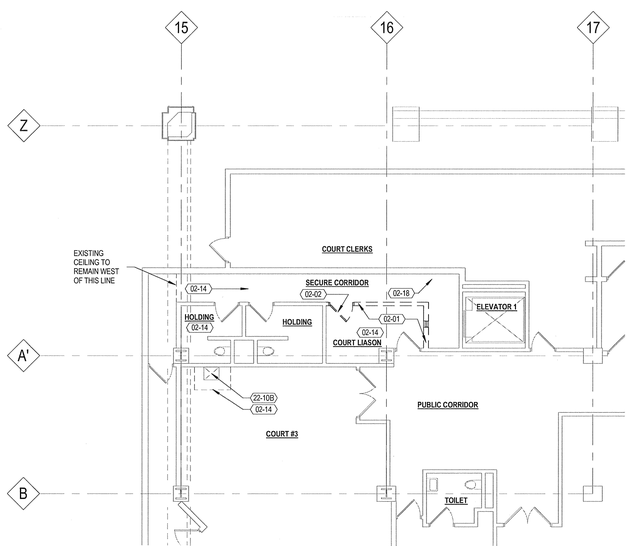
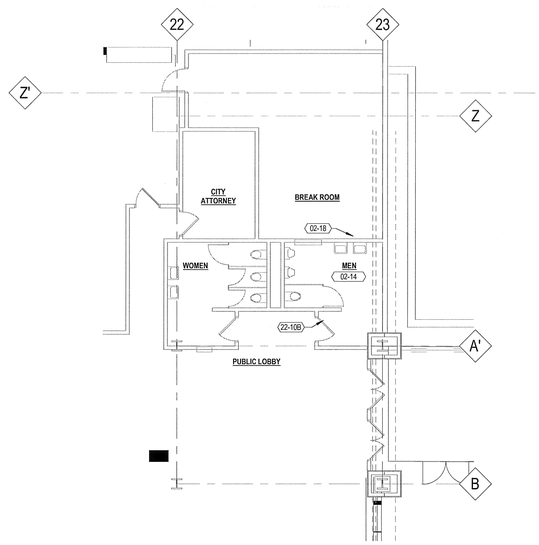
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
02-14	REMOVE EXISTING CEILING
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
22-10B	NEW PLUMBING SHAFT FROM ABOVE



A1 FIRST FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 FIRST FLOOR EAST DEMOLITION
1/8" = 1'-0"

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
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PROJECT INFORMATION

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PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

FIRST FLOOR DEMOLITION AND TEMPORARY

A101

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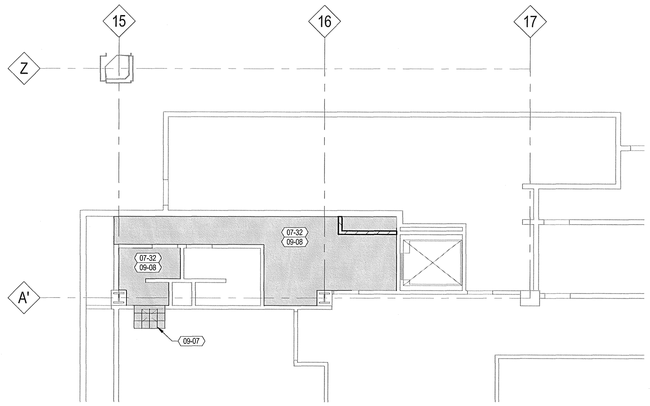
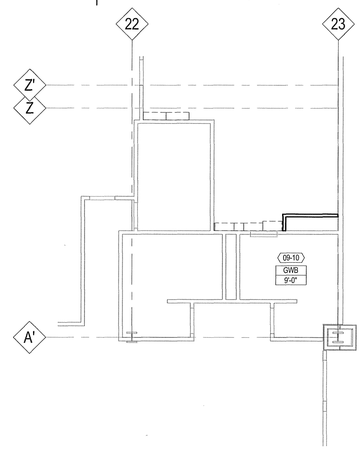
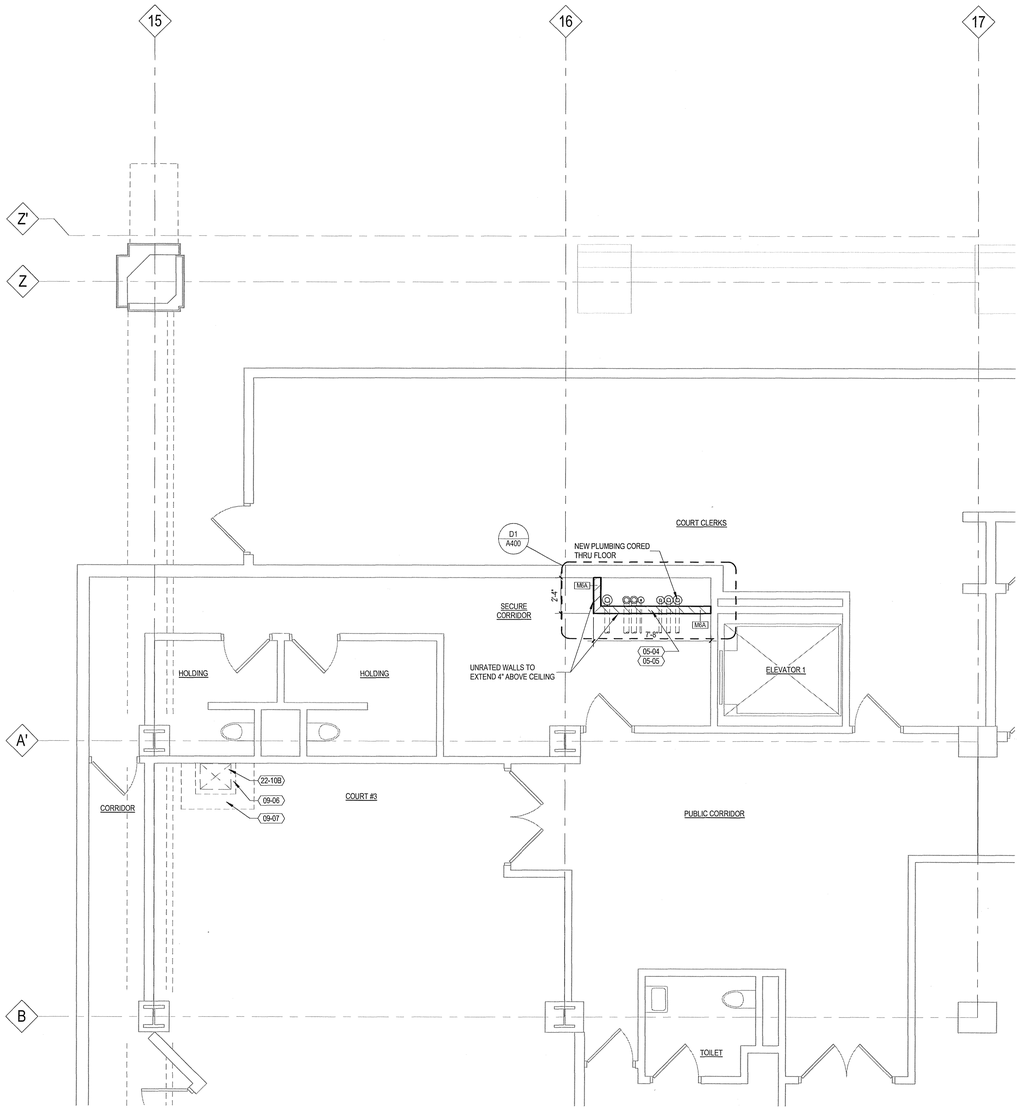


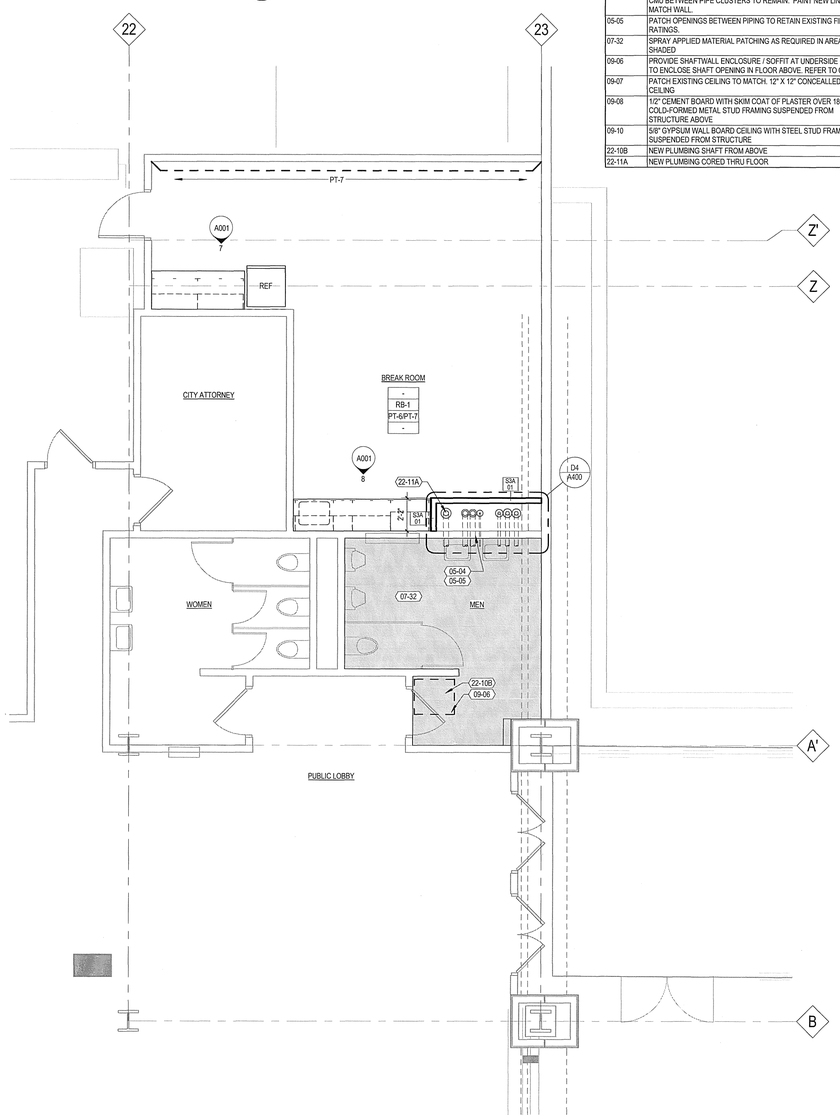
D1 FIRST FLOOR CEILING PLAN WEST
1/8" = 1'-0"



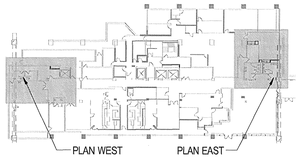
D5 FIRST FLOOR CEILNG PLAN EAST
1/8" = 1'-0"



A1 FIRST FLOOR PLAN WEST
1/4" = 1'-0"



A5 FIRST FLOOR PLAN EAST
1/4" = 1'-0"



E7 FIRST FLOOR KEYPLAN.
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARLY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
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3	TEMPORARY WALL B2010-A & B2010-A0 TO BE DEMOLISHED ONCE THE EXTERIOR MACHANICAL CHASE AND ENCLOSURE WALLS ARE INSTALLED
4	FURNITURE RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

05-04	CMU LINTEL ABOVE PIPE CHASE (5'-6" SPAN MAX). CUT IN L4 X 3 X 5/16" LLV ON EACH SIDE OF WALL. PROVIDE 8" BEARING AT JAMBS. CMU BETWEEN PIPE CLUSTERS TO REMAIN. PAINT NEW LINTEL TO MATCH WALL.
05-05	PATCH OPENINGS BETWEEN PIPING TO RETAIN EXISTING FIRE RATINGS.
07-32	SPRAY APPLIED MATERIAL PATCHING AS REQUIRED IN AREA SHOWN SHADED
09-06	PROVIDE SHAFTWALL ENCLOSURE / SOFFIT AT UNDERSIDE OF PIPING TO ENCLOSE SHAFT OPENING IN FLOOR ABOVE. REFER TO C7/A500
09-07	PATCH EXISTING CEILING TO MATCH. 12" X 12" CONCEALLED SPLINE CEILING
09-08	1/2" CEMENT BOARD WITH SKIM COAT OF PLASTER OVER 18GA COLD-FORMED METAL STUD FRAMING SUSPENDED FROM STRUCTURE ABOVE
09-10	5/8" GYPSUM WALL BOARD CEILING WITH STEEL STUD FRAMING SUSPENDED FROM STRUCTURE
22-10B	NEW PLUMBING SHAFT FROM ABOVE
22-11A	NEW PLUMBING CORED THRU FLOOR

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6580

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

FIRST FLOOR PLAN

A101.1

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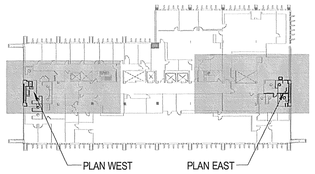

E7 SECOND FLOOR KEYPLAN
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
2	REFER TO SHEET A001 FOR EXTERIOR ASSEMBLY AND INTERIOR WALL DIAGRAMS
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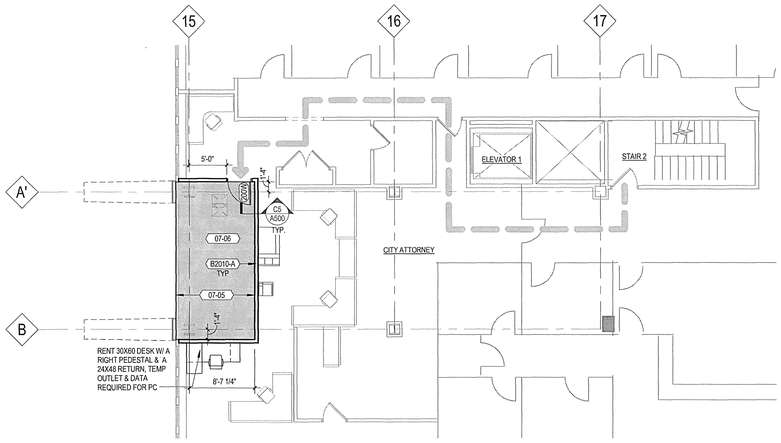
4	FURNITURE RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

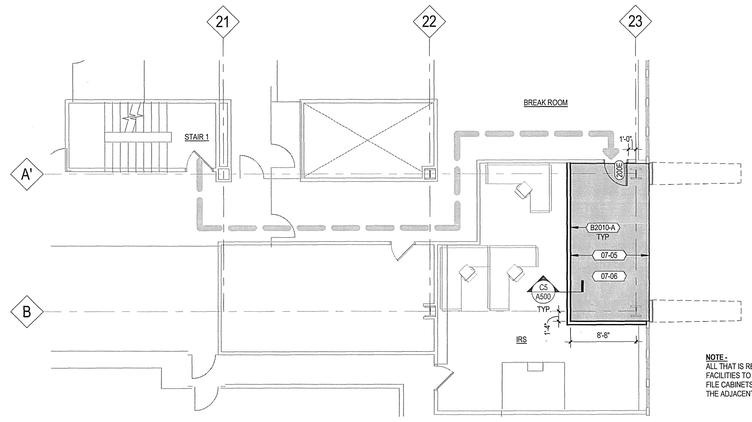
INDICATES CONTRACTOR ACCESS ROUTE TO TEMPORARY ENCLOSURE

KEYED NOTES

01-02	EXISTING PIERS ABOVE TO REMAIN
02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
02-03	REMOVE EXISTING COLUMN WRAP TO EXPOSE EXISTING STRUCTURE
02-04	REMOVE AND SALVAGE EXISTING SHEET METAL CABINET, BASE AND VINYL SURFACE MATERIAL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-06	REMOVE EXISTING PLASTER SOFFIT AND ASSOCIATED FRAMING
02-07	DASHED LINE INDICATES EXTENT OF FLOOR AND CEILING FINISHES TO BE REMOVED FOR TEMPORARY WALL PARTITIONS
02-14	REMOVE EXISTING CEILING
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITIAON
07-06	SPRAY APPLIED FIRE RESISTIVE MATERIAL APPLIED TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE AND TO BEAMS AND COLUMNS IN AREAS BEING ABATED COORDINATE WITH DPW. REFER TO SPECIFICATIONS FOR FIRE RATING & ASSEMBLIES (SHOWN AS SHADED AREA)
22-10B	NEW PLUMBING SHAFT FROM ABOVE

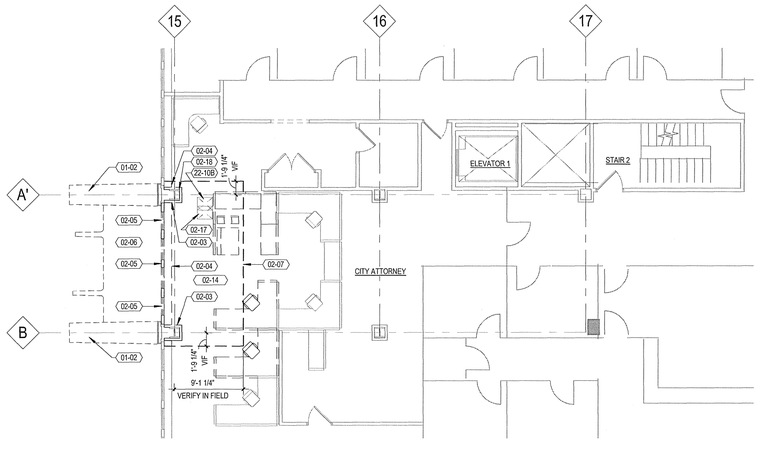


C1 SECOND FLOOR WEST TEMPORARY
1/8" = 1'-0"

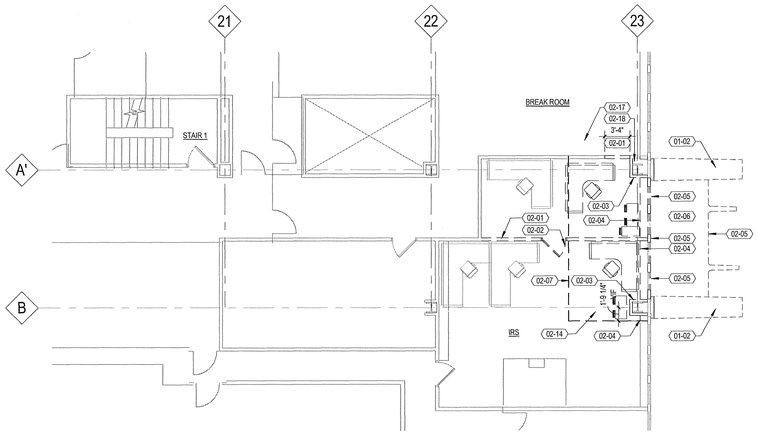


NOTE:
ALL THAT IS REQUIRED FOR THE TEMP MOVE IS FOR FACILITIES TO STORE THEIR (2) WORKSTATIONS AND (3) FILE CABINETS. THEY HAVE FUTURE WORKSTATIONS IN THE ADJACENT ROOM FOR THESE (2) EMPLOYEES.

C5 SECOND FLOOR EAST TEMPORARY
1/8" = 1'-0"



A1 SECOND FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 SECOND FLOOR EAST DEMOLITION
1/8" = 1'-0"

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eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
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PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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CONSTRUCTION DOCUMENTS

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SECOND FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A102

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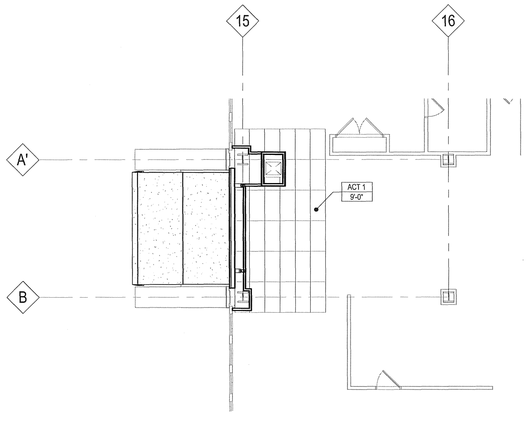
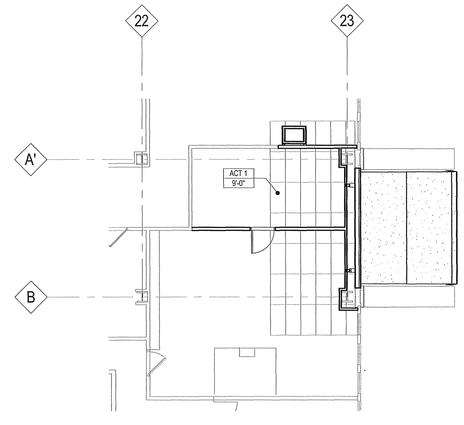
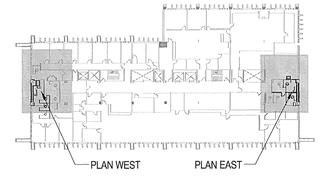


D1 SECOND FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 SECOND FLOOR CEILING PLAN EAST
1/8" = 1'-0"



E7 SECOND FLOOR KEYPLAN.
1" = 50'-0"

GENERAL NOTES

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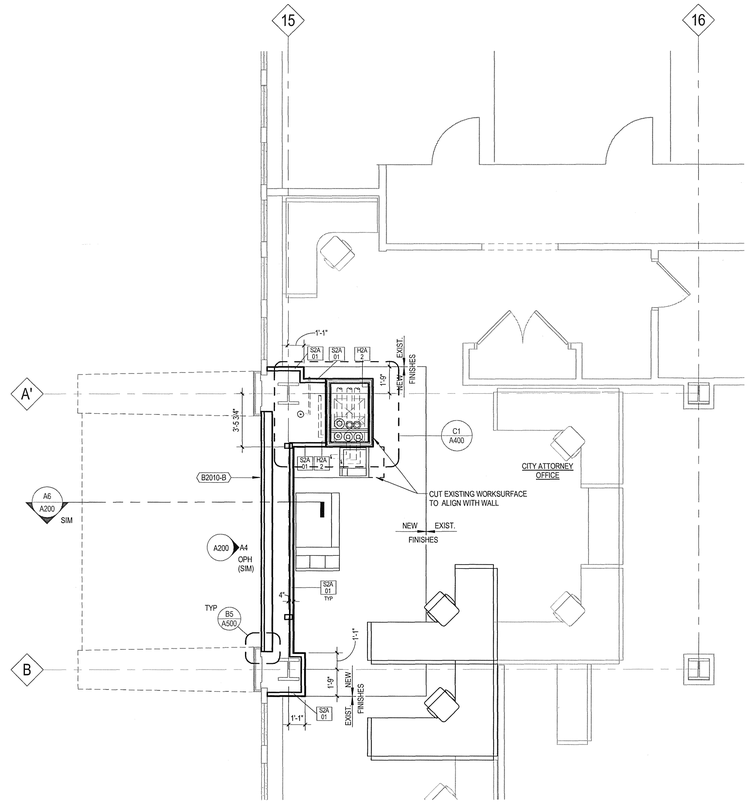
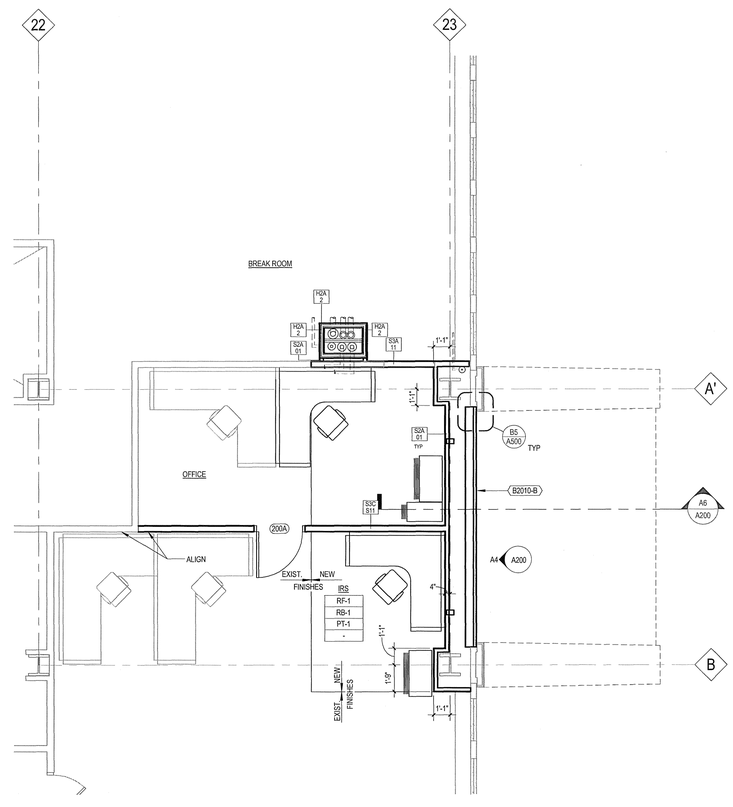


A1 SECOND FLOOR PLAN WEST
1/4" = 1'-0"



A5 SECOND FLOOR PLAN EAST
1/4" = 1'-0"

eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SECOND FLOOR PLAN

A102.1

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KEYED NOTES

02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
02-04	REMOVE AND SALVAGE EXISTING SHEET METAL CABINET, BASE AND VINYL SURFACE MATERIAL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-14	REMOVE EXISTING CEILING
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITAION
07-06	SPRAY APPLIED FIRE RESISTIVE MATERIAL APPLIED TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE AND TO BEAMS AND COLUMNS IN AREAS BEING ABATED COORDINATE WITH DPW. REFER TO SPECIFICATIONS FOR FIRE RATING & ASSEMBLIES (SHOWN AS SHADED AREA)
22-10B	NEW PLUMBING SHAFT FROM ABOVE

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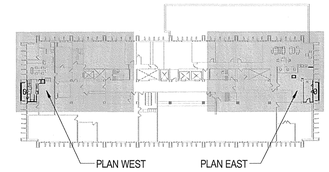
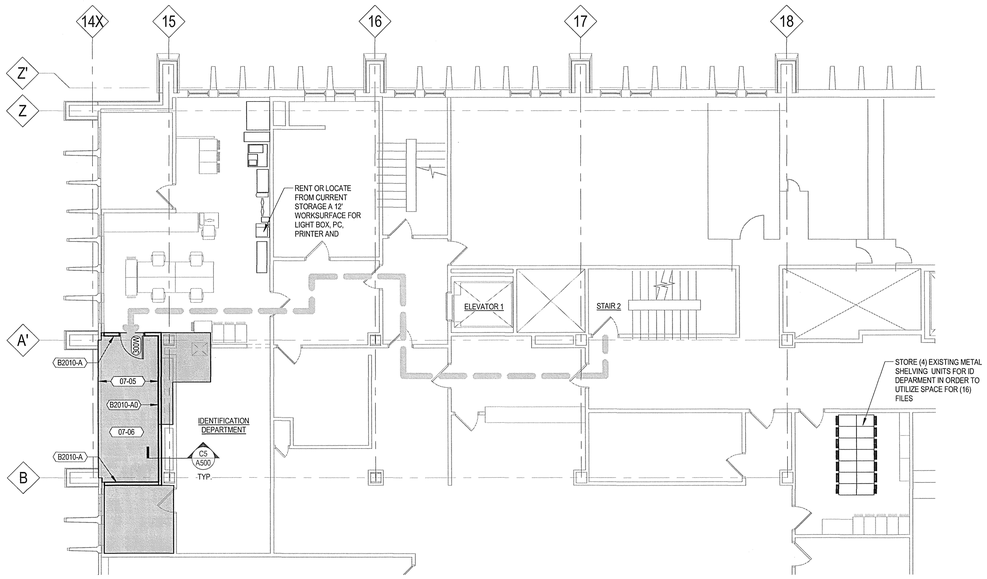
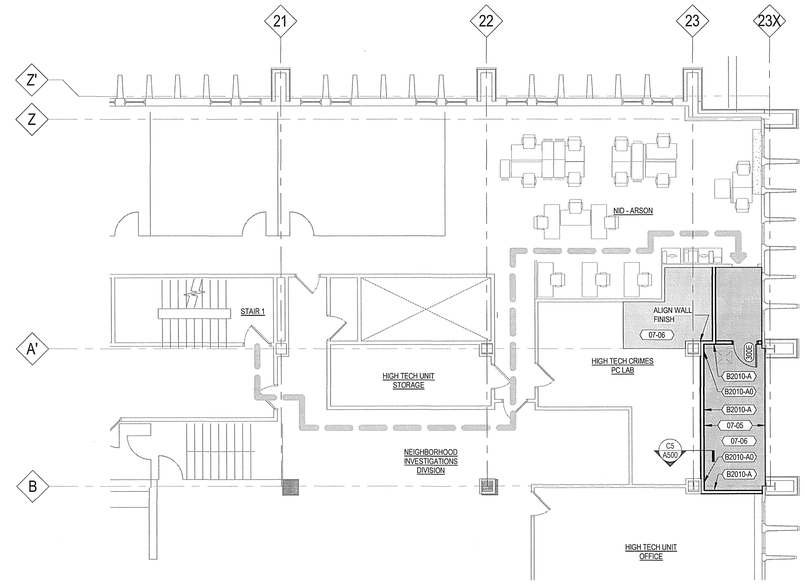
INDICATES CONTRACTOR ACCESS ROUTE TO TEMPORARY ENCLOSURE



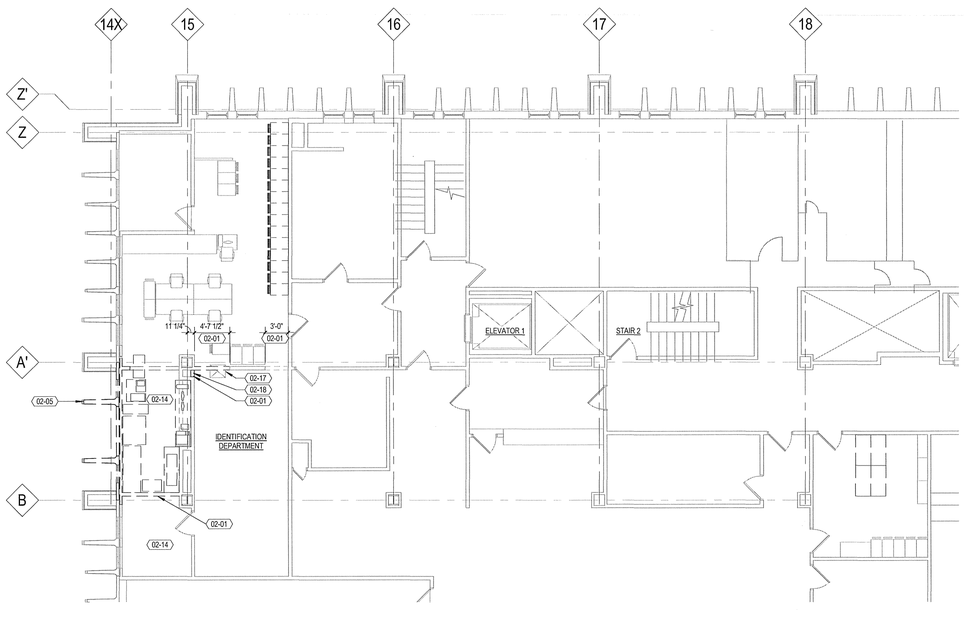
E7 THIRD FLOOR KEYPLAN
1" = 50'-0"



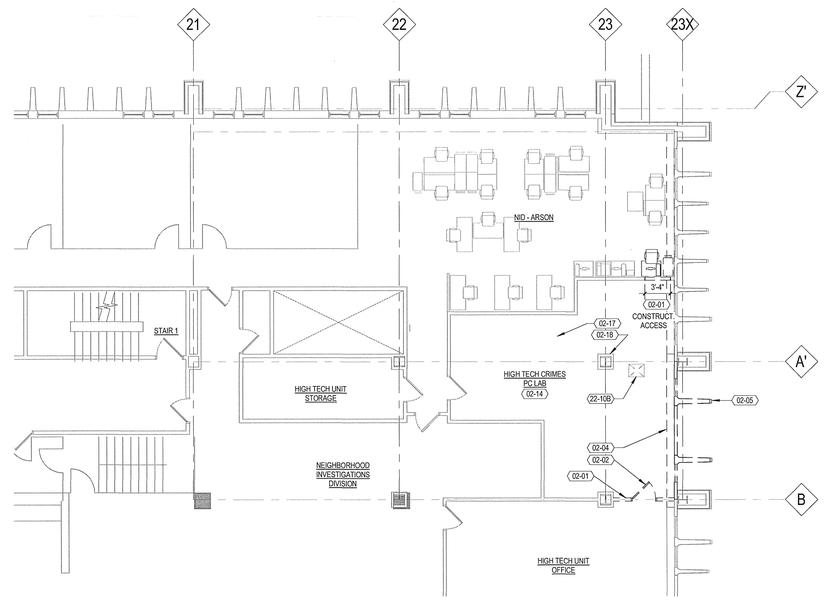
C1 THIRD FLOOR WEST TEMPORARY
1/8" = 1'-0"



C5 THIRD FLOOR EAST TEMPORARY
1/8" = 1'-0"



A1 THIRD FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 THIRD FLOOR EAST DEMOLITION
1/8" = 1'-0"

eppstein uhen : architects
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madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

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Milwaukee, WI

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SHEET INFORMATION

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PROJECT NUMBER	310077-09
DATE	04/02/2012

THIRD FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A103

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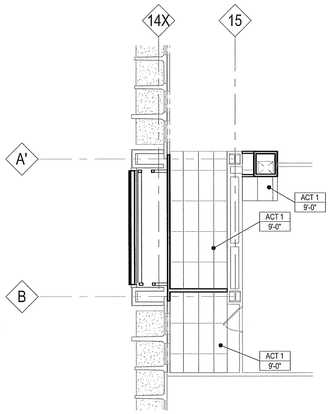
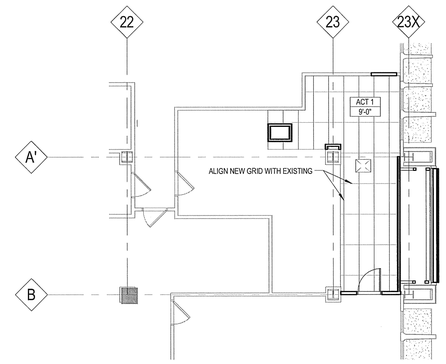
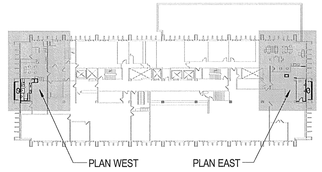


D1 THIRD FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 THIRD FLOOR CEILING PLAN EAST
1/8" = 1'-0"



E7 THIRD FLOOR KEYPLAN.
1" = 50'-0"

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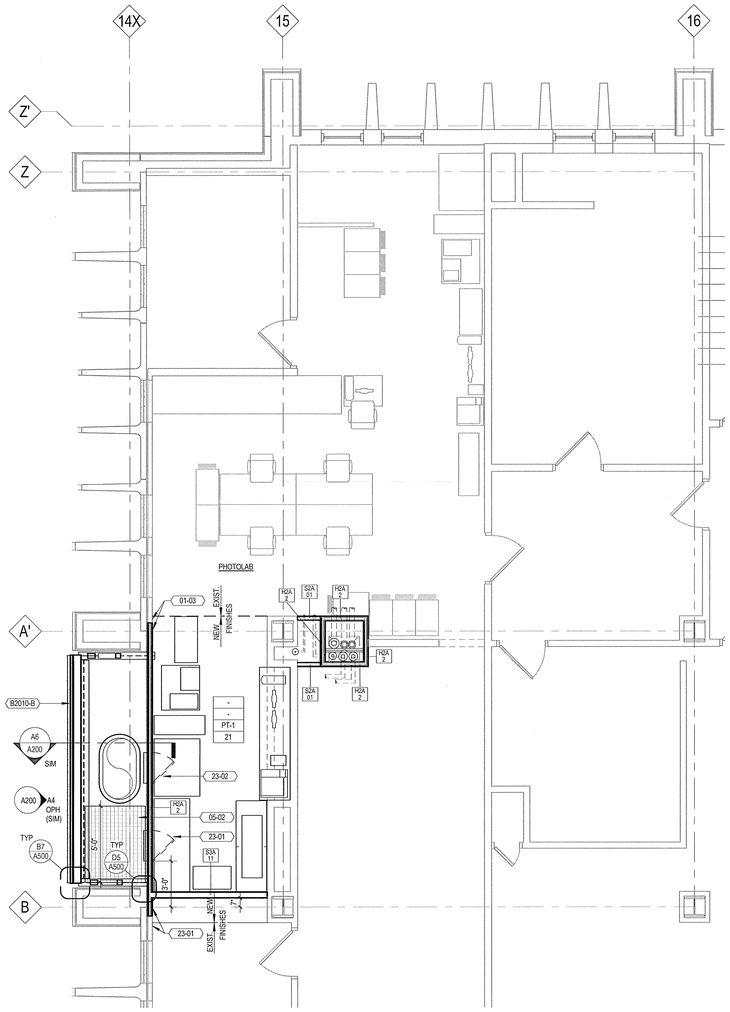
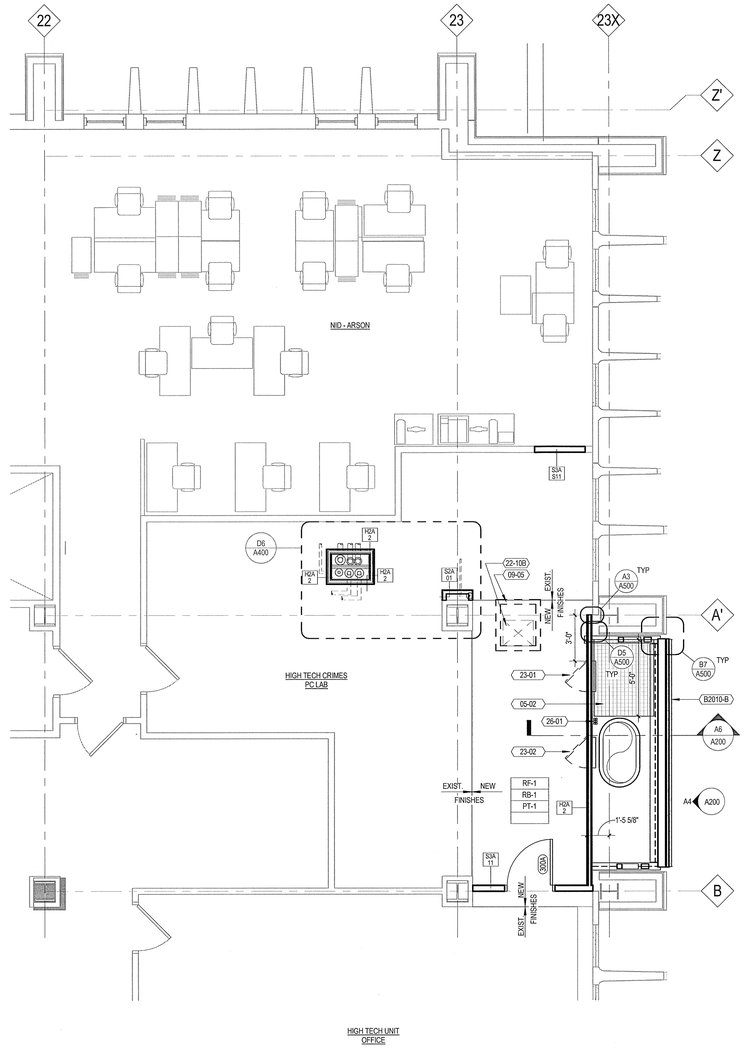
KEYED NOTES

01-03	NEW AND EXISTING FINISH FACES TO ALIGN
05-02	GALVANIZED EXPANDED METAL 4.27# STEEL GRATING FOR A UNIFORM LOAD OF 100LBS/L.F. METAL GRATING TO HAVE A MAXIMUM 58% OPENING, LWO: 2.880, SWO: 1.000 WITH LWO PARALLEL TO LENGTH. GRATING TO BE WELDED TO STRUCTURAL STEEL SUBFRAME. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION
09-05	EXTEND SHAFTWALL CONSTRUCTION HORIZONTALLY ABOVE CEILING TO OFFSET SHAFT LOCATION.
22-10B	NEW PLUMBING SHAFT FROM ABOVE
23-01	24" WIDE X 30" HIGH 2-HOUR RATED ACCESS PANEL. REFER TO PLANS FOR LOCATION. BOTTOM OF OPENING TO SIT 2'-0" ABOVE FINISH FLOOR
23-02	24" WIDE X 24" HIGH 2-HOUR RATED ACCESS PANEL TO BE CENTERED ON DUCT RISER AS SHOWN. BOTTOM OF OPENING TO SIT 2'-0" ABOVE FINISH FLOOR
26-01	(6) 1-1/2" CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION



A1 THIRD FLOOR PLAN WEST
1/4" = 1'-0"



A5 THIRD FLOOR PLAN EAST
1/4" = 1'-0"

eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
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PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

THIRD FLOOR PLAN

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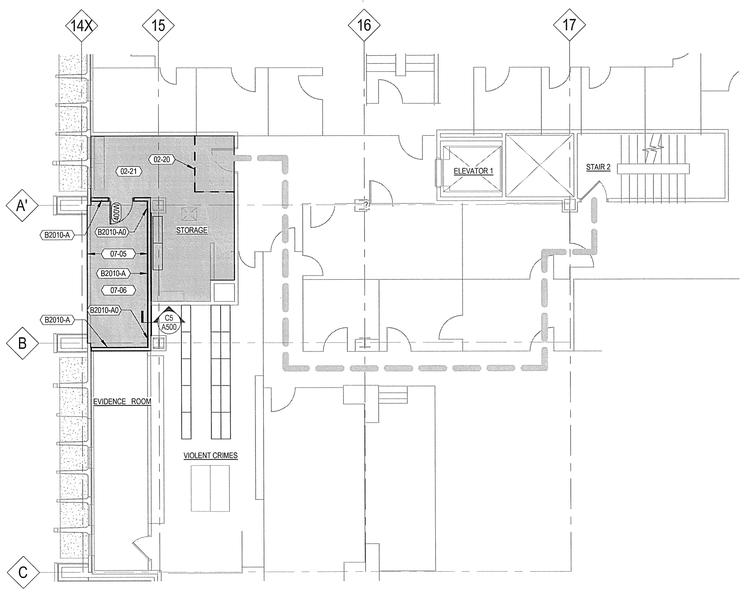
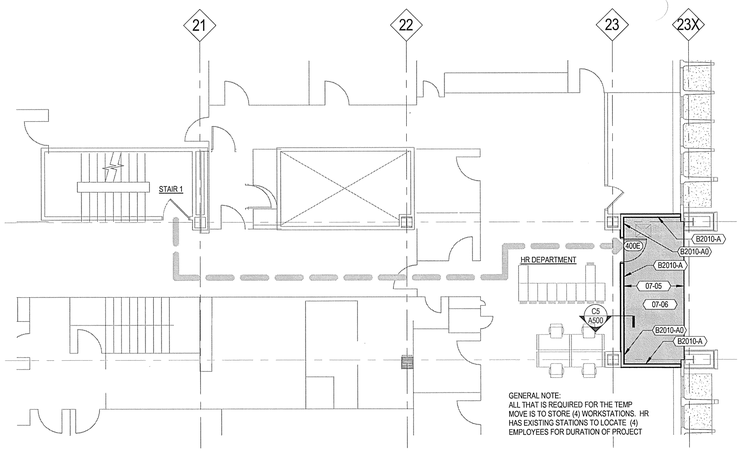
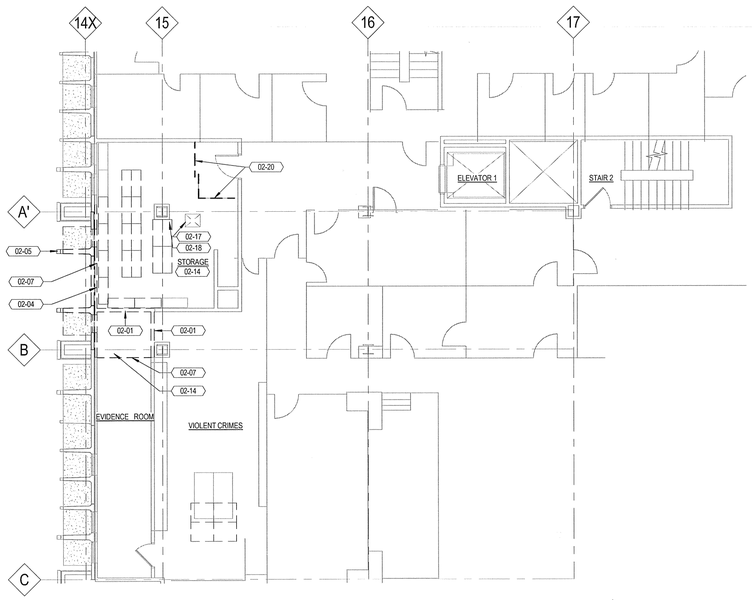


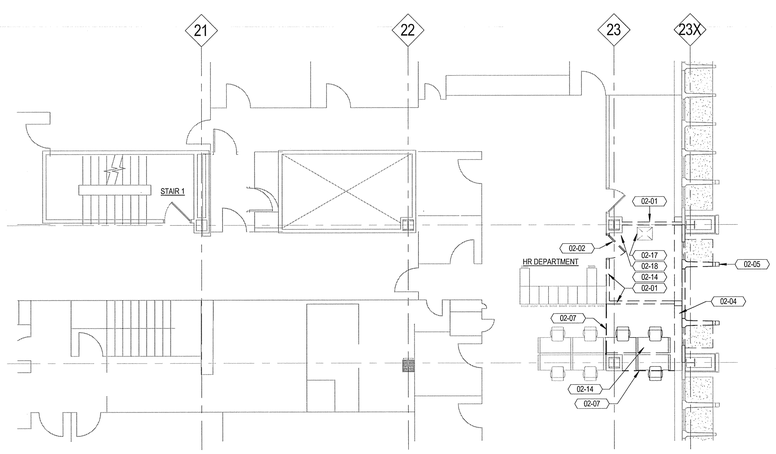
C1 FOURTH FLOOR WEST TEMPORARY
1/8" = 1'-0"



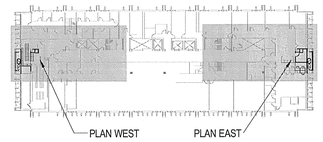
C5 FOURTH FLOOR EAST TEMPORARY
1/8" = 1'-0"



A1 FOURTH FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 FOURTH FLOOR EAST DEMOLITION
1/8" = 1'-0"



E7 FOURTH FLOOR KEYPLAN
1" = 50'-0"

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INDICATES CONTRACTOR ACCESS ROUTE TO TEMPORARY ENCLOSURE

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02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
02-04	REMOVE AND SALVAGE EXISTING SHEET METAL CABINET, BASE AND VINYL SURFACE MATERIAL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-07	DASHED LINE INDICATES EXTENT OF FLOOR AND CEILING FINISHES TO BE REMOVED FOR TEMPORARY WALL PARTITIONS
02-14	REMOVE EXISTING CEILING
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
02-20	REMOVE EXISTING SECURITY BARS & GATE. SALVAGE FOR OWNER REUSE
02-21	REMOVE EXISTING STEEL PLATE CEILING & SUPPORT HANGERS
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITATION
07-06	SPRAY APPLIED FIRE RESISTIVE MATERIAL APPLIED TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE AND TO BEAMS AND COLUMNS IN AREAS BEING ABATED COORDINATE WITH DPW. REFER TO SPECIFICATIONS FOR FIRE RATING & ASSEMBLIES (SHOWN AS SHADED AREA)

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

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SHEET INFORMATION

PROJECT MANAGER	PK
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DATE	04/02/2012

FOURTH FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A104

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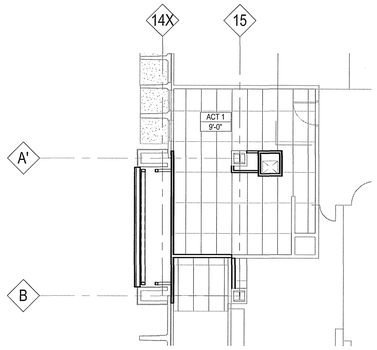
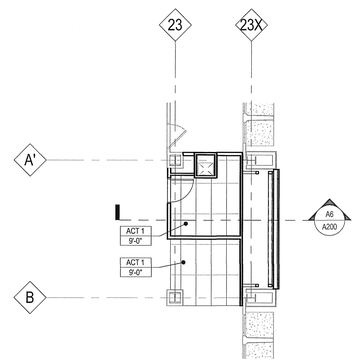
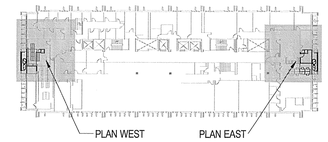


D1 FOURTH FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 FOURTH FLOOR CEILING PLAN EAST
1/8" = 1'-0"



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1" = 50'-0"

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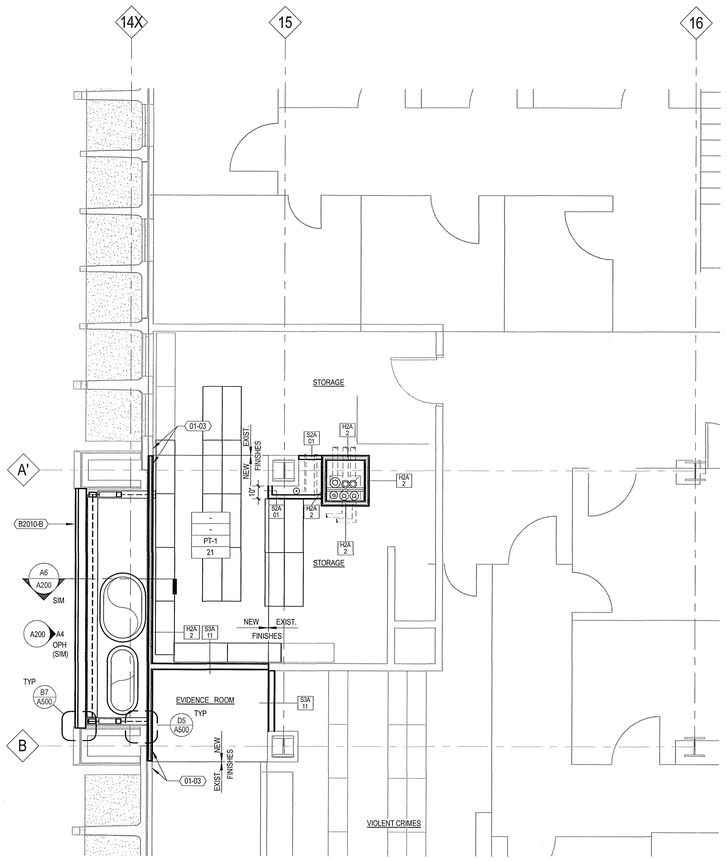

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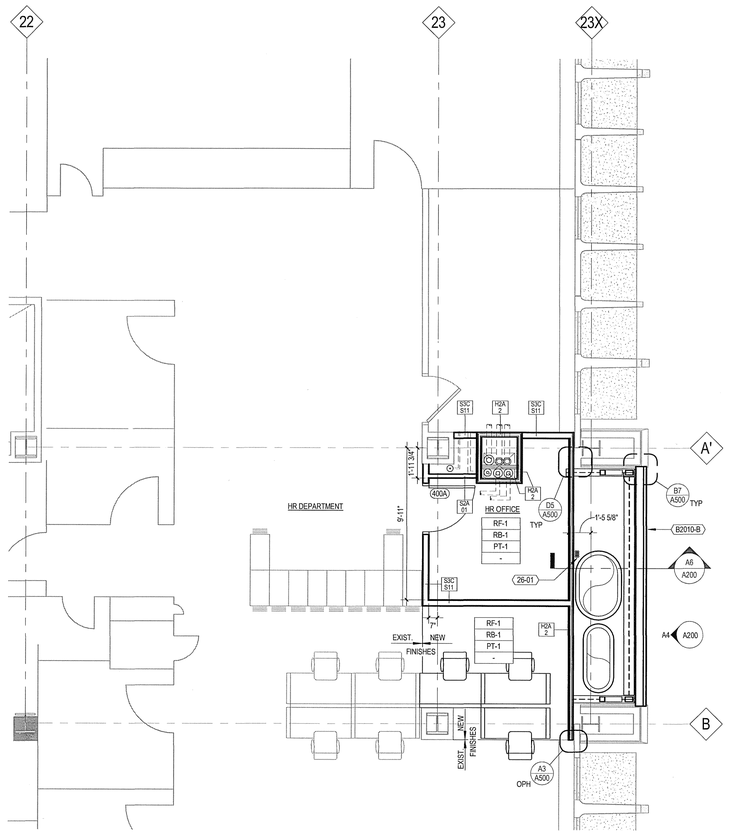
1/4" = 1'-0"



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FOURTH FLOOR PLAN

A104.1

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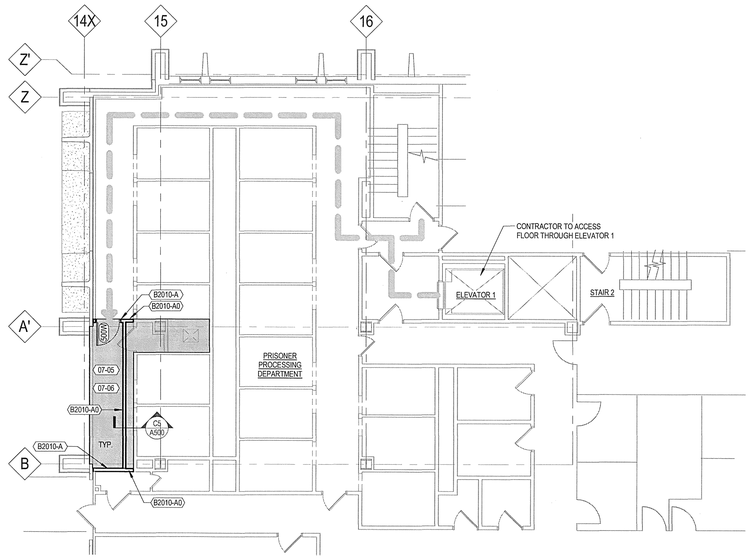

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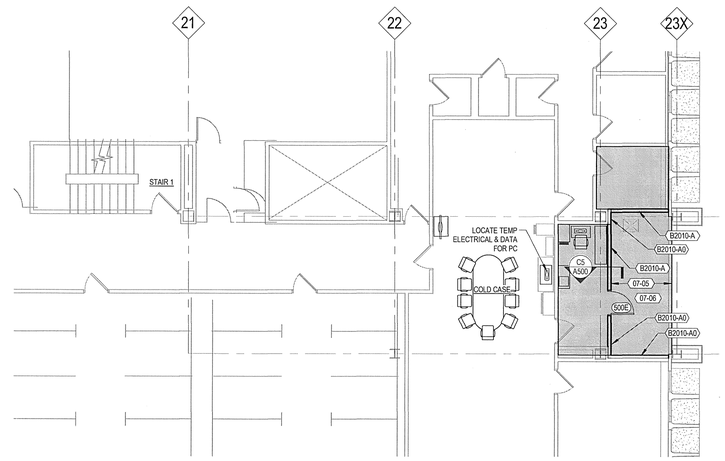

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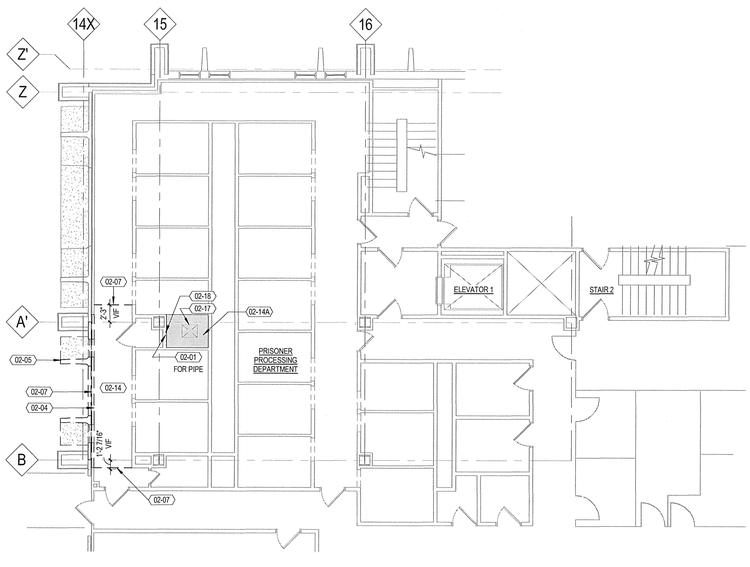

A1 FIFTH FLOOR WEST DEMOLITION
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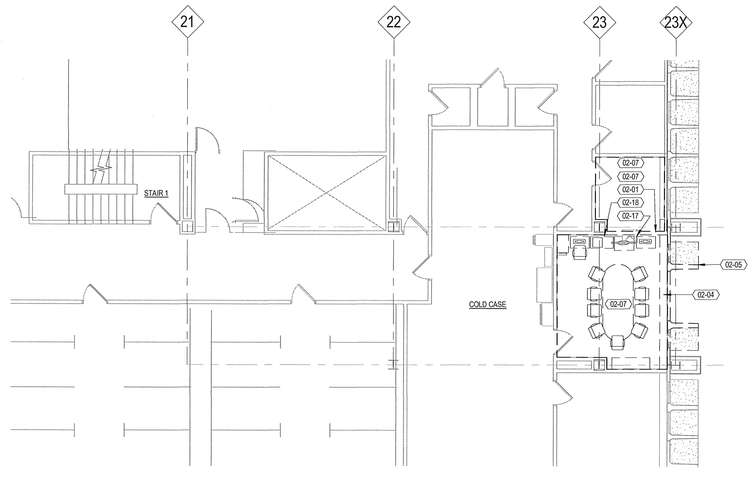

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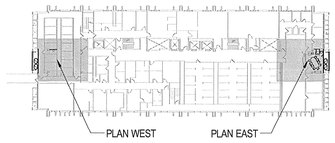

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1" = 50'-0"

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KEYED NOTES

02-01	REMOVE PORTION OF EXISTING WALL
02-04	REMOVE AND SALVAGE EXISTING SHEET METAL CABINET, BASE AND VINYL SURFACE MATERIAL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-07	DASHED LINE INDICATES EXTENT OF FLOOR AND CEILING FINISHES TO BE REMOVED FOR TEMPORARY WALL PARTITIONS
02-14	REMOVE EXISTING CEILING
02-14A	REMOVE EXISTING STEEL CEILING & SALVAGE FOR REINSTALLATION
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITAION
07-06	SPRAY APPLIED FIRE RESSITIVE MATERIAL APPLIED TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE AND TO BEAMS AND COLUMNS IN AREAS BEING ABATED COORDINATE WITH DPW. REFER TO SPECIFICATIONS FOR FIRE RATING & ASSEMBLIES (SHOWN AS SHADED AREA)

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

FIFTH FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A105

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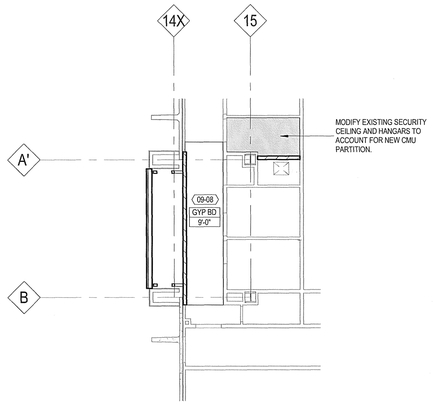
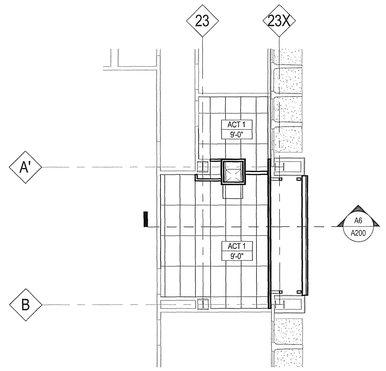
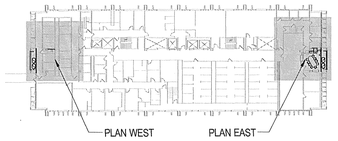


D1 FIFTH FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 FIFTH FLOOR CEILING PLAN EAST
1/8" = 1'-0"



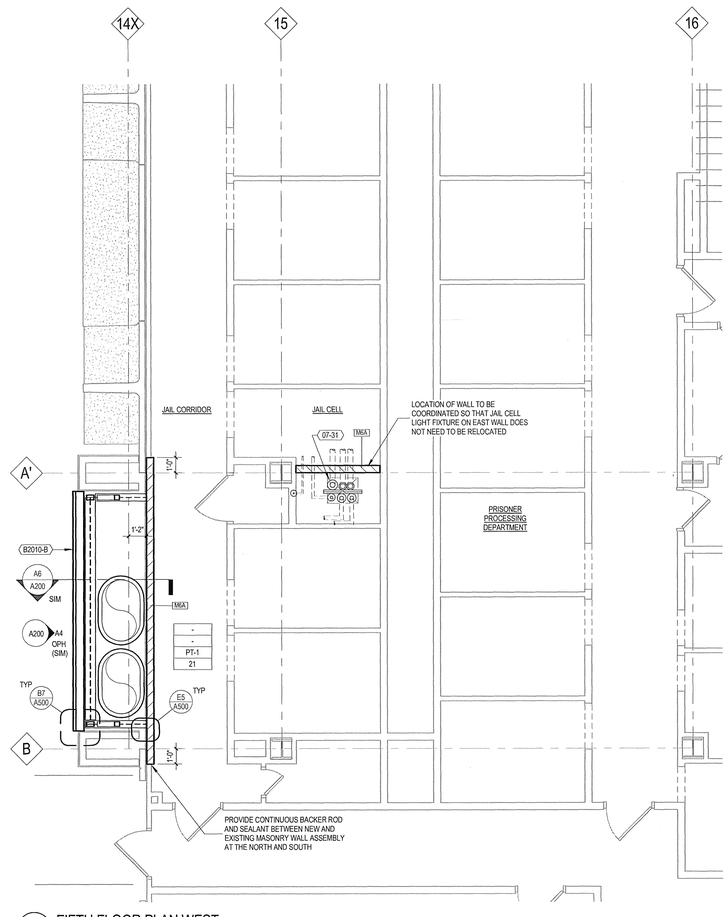
E7 FIFTH FLOOR KEYPLAN.
1" = 50'-0"

GENERAL NOTES

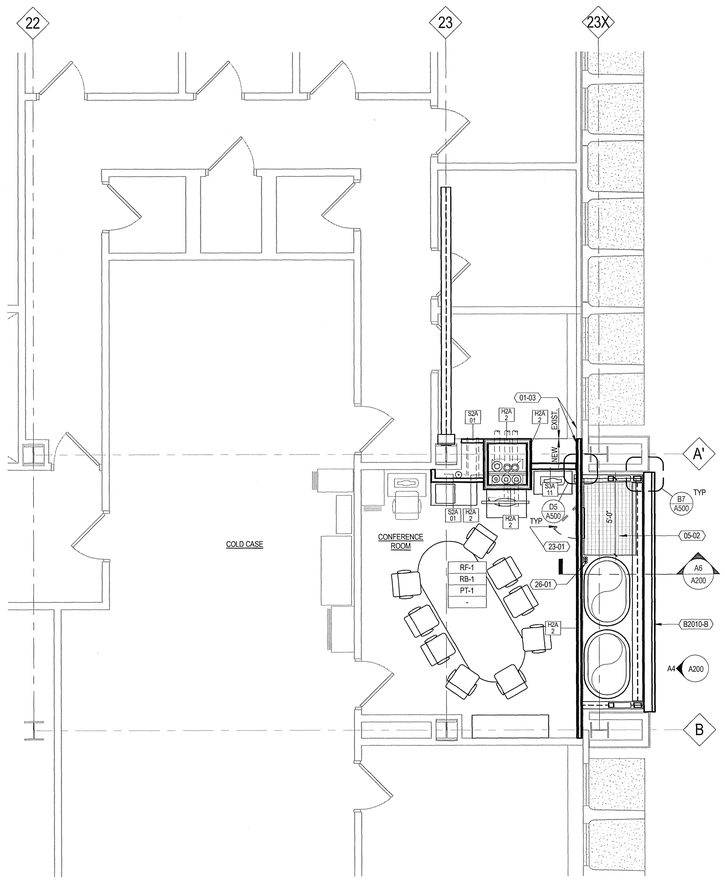
1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
2	REFER TO SHEET A001 FOR EXTERIOR ASSEMBLY AND INTERIOR WALL DIAGRAMS
3	TEMPORARY WALL B2010-A & B2010-A0 TO BE DEMOLISHED ONCE THE EXTERIOR MACHANICAL CHASE AND ENCLOSURE WALLS ARE INSTALLED
4	FURNITURE RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

01-03	NEW AND EXISTING FINISH FACES TO ALIGN
05-02	GALVANIZED EXPANDED METAL 4.27# STEEL GRATING FOR A UNIFORM LOAD OF 100LBS/LF. METAL GRATING TO HAVE A MAXIMUM 58% OPENING. LWD: 2.880, SWD: 1.000 WITH LWD PARALLEL TO LENGTH. GRATING TO BE WELDED TO STRUCTURAL STEEL SUBFRAME. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION
07-31	PROVIDE 2 HR. FIRE SAFING MATERIAL AT FLOOR LINE
09-08	1/2" CEMENT BOARD WITH SKIM COAT OF PLASTER OVER 18GA COLD-FORMED METAL STUD FRAMING SUSPENDED FROM STRUCTURE ABOVE
23-01	24" WIDE X 30" HIGH 2-HOUR RATED ACCESS PANEL. REFER TO PLANS FOR LOCATION. BOTTOM OF OPENING TO SIT 2'-0" ABOVE FINISH FLOOR
26-01	(6) 1-1/2" CONDUIT. REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION



A1 FIFTH FLOOR PLAN WEST
1/4" = 1'-0"



A5 FIFTH FLOOR PLAN EAST
1/4" = 1'-0"

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

FIFTH FLOOR PLAN

A105.1

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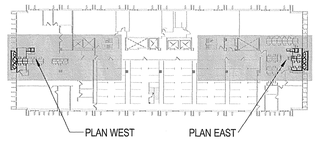

E7 SIXTH FLOOR KEYPLAN
1" = 50'-0"

GENERAL NOTES

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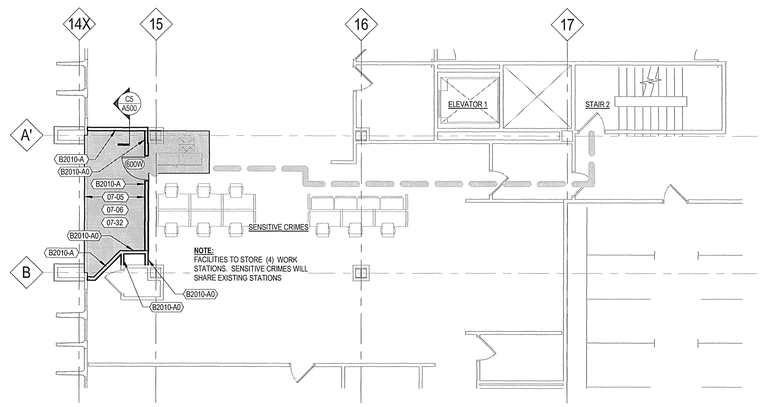
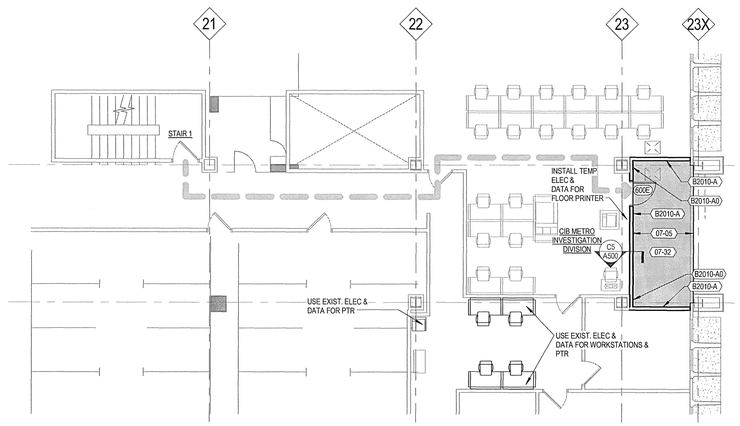
INDICATES CONTRACTOR ACCESS ROUTE TO TEMPORARY ENCLOSURE

KEYED NOTES

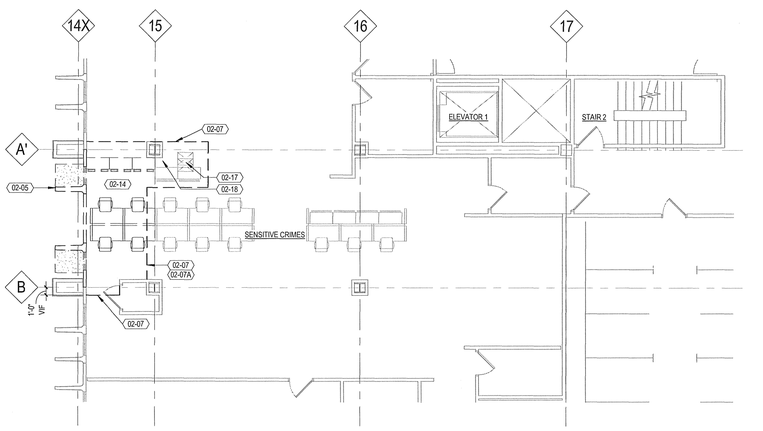
02-01	REMOVE PORTION OF EXISTING WALL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-07	DASHED LINE INDICATES EXTENT OF FLOOR AND CEILING FINISHES TO BE REMOVED FOR TEMPORARY WALL PARTITIONS
02-07A	REMOVE AND SALVAGE EXISTING RAISED FLOOR FOR REINSTALLATION IN THIS AREA
02-14	REMOVE EXISTING CEILING
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITAION
07-06	SPRAY APPLIED FIRE RESISTIVE MATERIAL APPLIED TO UNDERSIDE OF FLOOR ASSEMBLY ABOVE AND TO BEAMS AND COLUMNS IN AREAS BEING ABATED COORDINATE WITH DPW. REFER TO SPECIFICATIONS FOR FIRE RATING & ASSEMBLIES (SHOWN AS SHADED AREA)
07-32	SPRAY APPLIED MATERIAL PATCHING AS REQUIRED IN AREA SHOWN SHADED



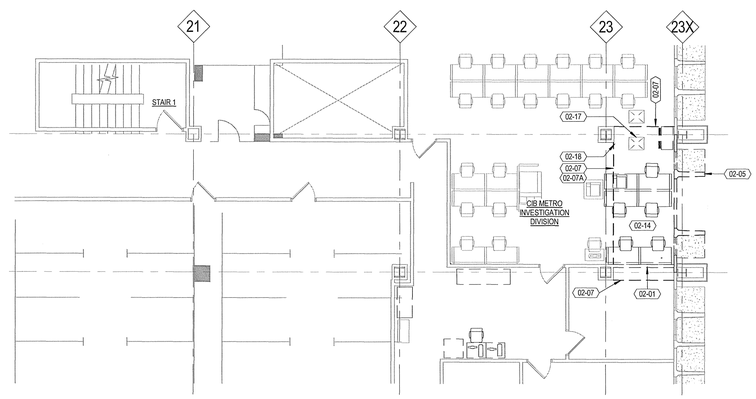
C1 SIXTH FLOOR WEST TEMPORARY
1/8" = 1'-0"



C5 SIXTH FLOOR EAST TEMPORARY
1/8" = 1'-0"



A1 SIXTH FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 SIXTH FLOOR EAST DEMOLITION
1/8" = 1'-0"

eu:a

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SIXTH FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A106

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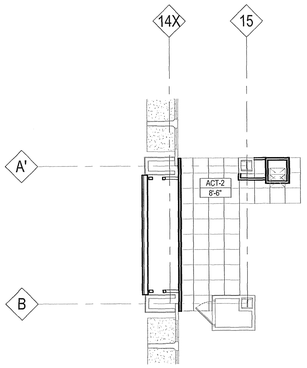
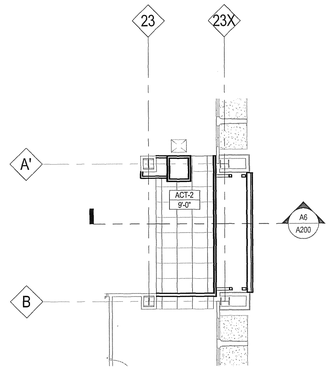
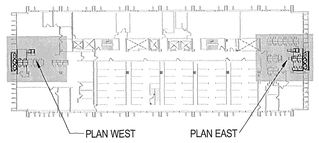


D1 SIXTH FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 SIXTH FLOOR CEILING PLAN EAST
1/8" = 1'-0"



E7 SIXTH FLOOR KEYPLAN.
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARLY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
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3	TEMPORARY WALL B2010-A & B2010-A0 TO BE DEMOLISHED ONCE THE EXTERIOR MACHANICAL CHASE AND ENCLOSURE WALLS ARE INSTALLED
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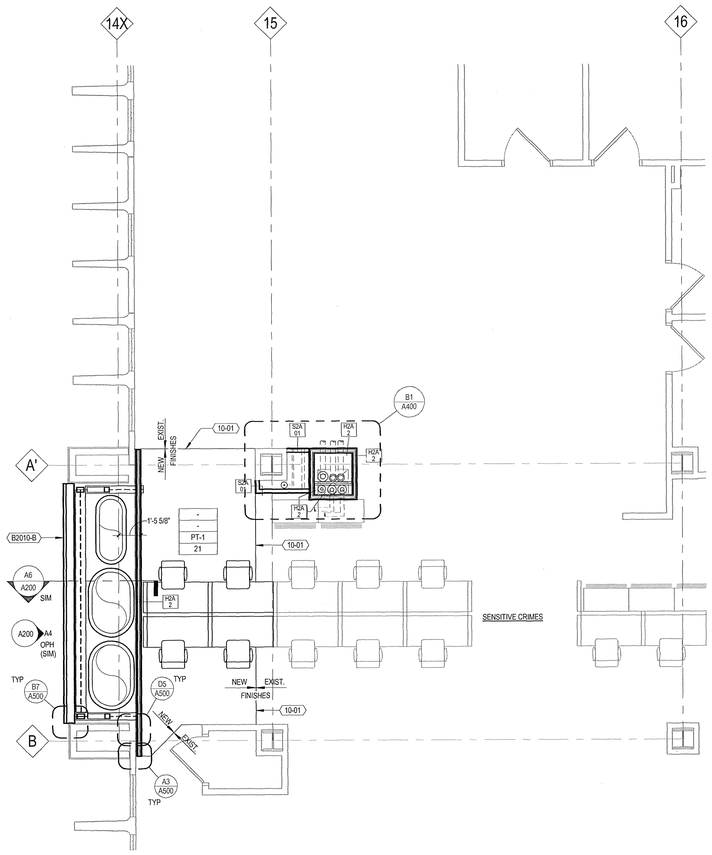
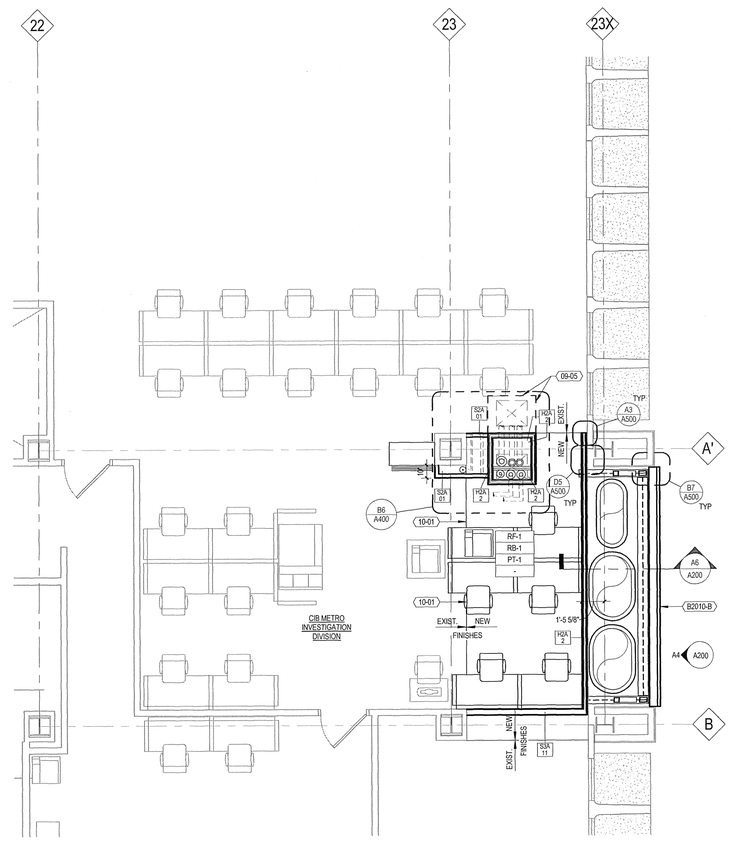
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

09-05	EXTEND SHAFTWALL CONSTRUCTION HORIZONTALLY ABOVE CEILING TO OFFSET SHAFT LOCATION.
10-01	REINSTALL SALVAGED RAISED FLOOR SYSTEM ALIGN WITH EXISTING FLOORING



A1 SIXTH FLOOR PLAN WEST
1/4" = 1'-0"



A5 SIXTH FLOOR PLAN EAST
1/4" = 1'-0"

eppstein uhen : architects

milwaukee
333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison
222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SIXTH FLOOR PLAN

A106.1

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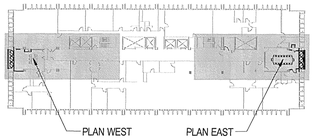

E7 SEVENTH FLOOR KEYPLAN
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
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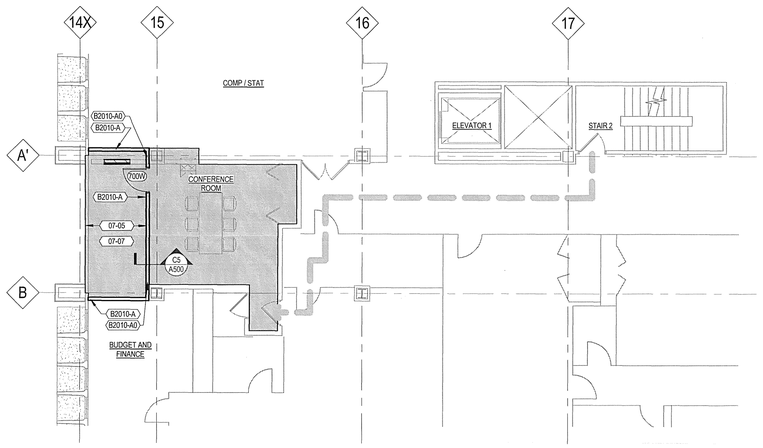
4	FURNITURE RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

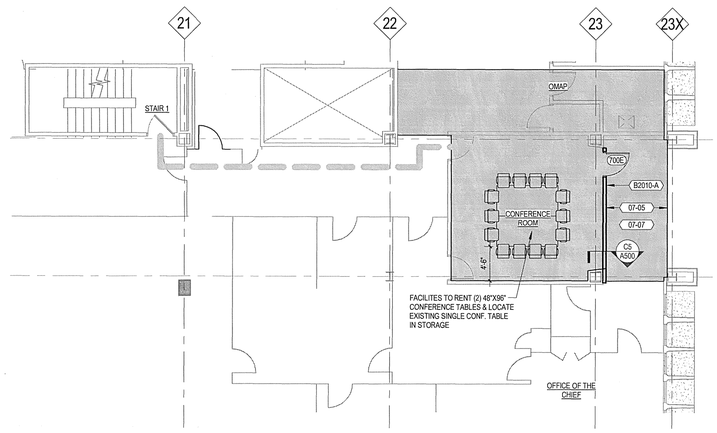
INDICATES CONTRACTOR ACCESS ROUTE TO TEMPORARY ENCLOSURE

KEYED NOTES

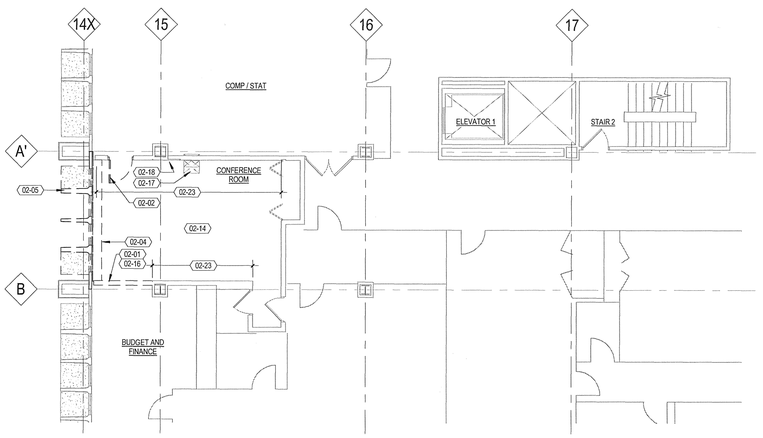
02-01	REMOVE PORTION OF EXISTING WALL
02-02	REMOVE AND SALVAGE EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE
02-04	REMOVE AND SALVAGE EXISTING SHEET METAL CABINET, BASE AND VINYL SURFACE MATERIAL
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-14	REMOVE EXISTING CEILING
02-16	REMOVE & SALVAGE EXISTING WOOD BOARDS & REMOVE WOOD FURRING @ WALLS INDICATED TO BE DEMOLISHED
02-17	REMOVE EXISTING FLOOR FOR NEW SHAFT. VERIFY LOCATION OF STRUCTURAL DECK IN FIELD.
02-18	CORE HOLE(S) FOR NEW PIPE PENETRATION
02-23	REMOVE WOOD PANELING & WOOD FURRING
07-05	TRAFFIC TOPPING MEMBRANE. INSTALL ON ENTIRE FLOOR SLAB OUTBOARD OF TEMPORARY PARTITIAON
07-07	SPRAY APPLIED FIRE RESISTIVE MATERIAL AT UNDERSIDE OF FLOOR ASSEMBLY AND BEAMS ABOVE AND SUPPORTING COLUMNS CONSTRUCTION IN AREAS BEING ABATED. REFER TO SPECIFICATIONS FOR FIRE RESISTIVE REQUIREMENTS (SHOWN AS SHADED AREA).



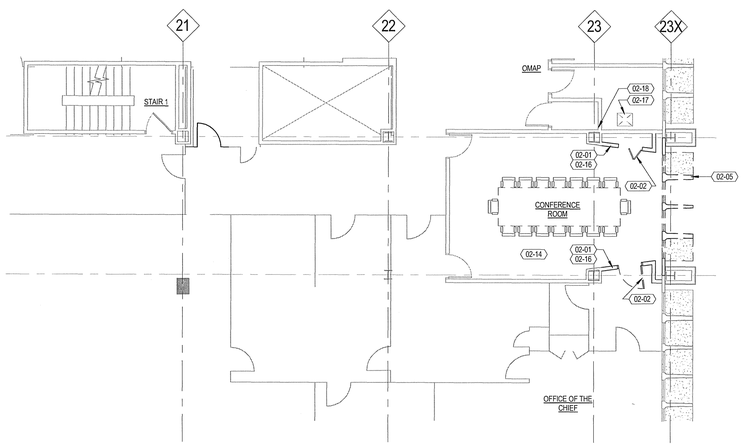
C1 SEVENTH FLOOR WEST TEMPORARY
1/8" = 1'-0"



C5 SEVENTH FLOOR EAST TEMPORARY
1/8" = 1'-0"



A1 SEVENTH FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 SEVENTH FLOOR EAST DEMOLITION
1/8" = 1'-0"

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

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PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SEVENTH FLOOR DEMOLITION AND TEMPORARY RELOCATION PLAN

A107

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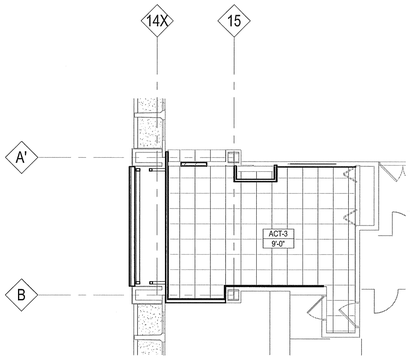
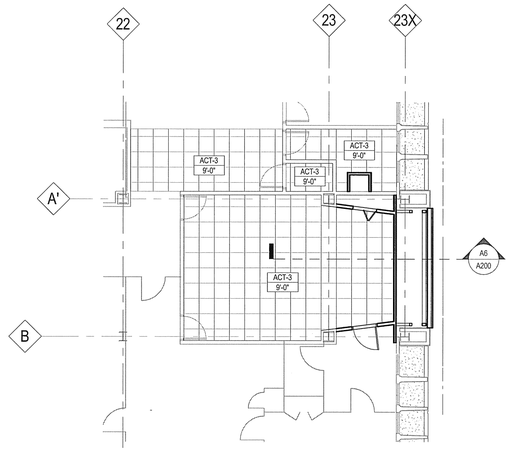
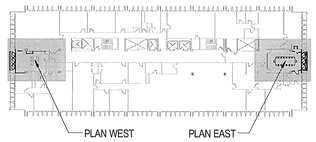


D1 SEVENTH FLOOR CEILING PLAN WEST
1/8" = 1'-0"



D5 SEVENTH FLOOR CEILING PLAN EAST
1/8" = 1'-0"



E7 SEVENTH FLOOR KEYPLAN.
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
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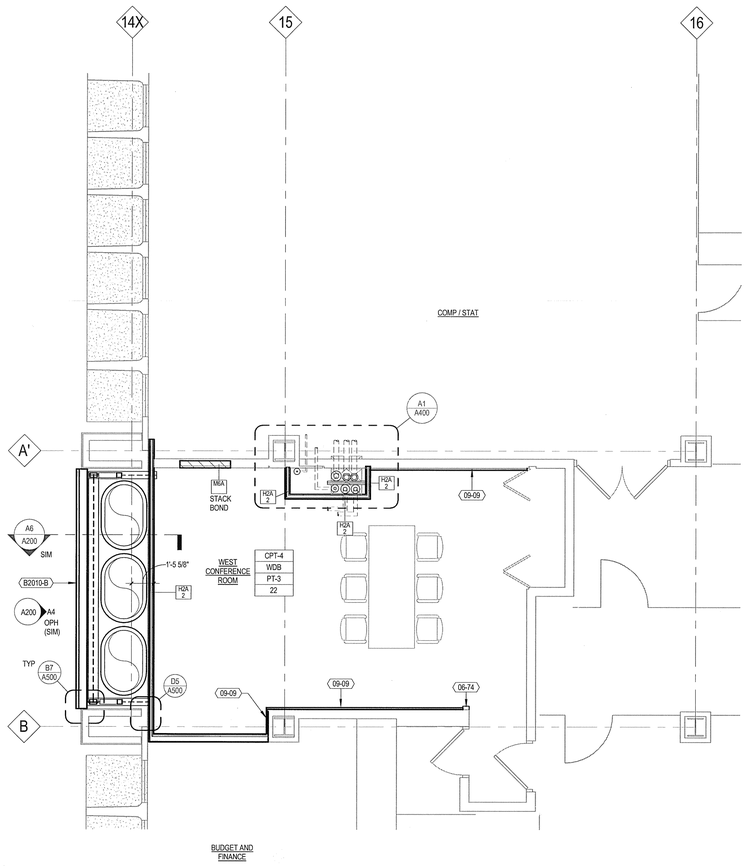
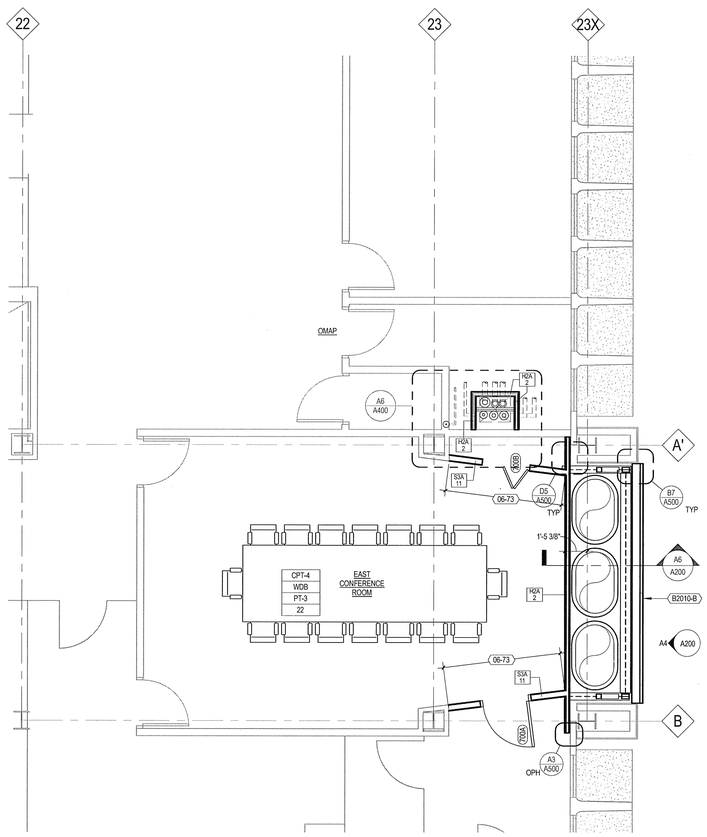
KEYED NOTES

06-73	1X6 VERTICAL TONGUE & GROOVE SOLID OAK BOARDS (MATCH EXISTING OR REUSE SALVAGED BOARDS TO THE GREATEST EXTENT POSSIBLE). PROVIDE HORIZONTAL 1X2 WOOD FURRING @ 16" O.C. BLIND NAIL OAK BOARDS TO FURRING. BOARD TO EXTEND FROM FLOOR TO 4" ABOVE CEILING
06-74	1X6 OAK BOARD FLOOR TO CEILING
09-09	5/8" GWB OVER 7/8" HAT CHANNELS @ 24" O.C.



A1 SEVENTH FLOOR PLAN WEST
1/4" = 1'-0"



A5 SEVENTH FLOOR PLAN EAST
1/4" = 1'-0"

eu:a

eppstein uhen : architects

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PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

SEVENTH FLOOR PLAN

A107.1

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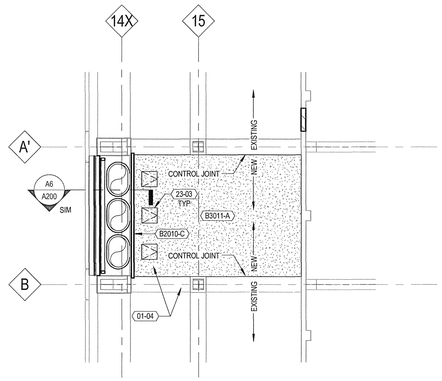
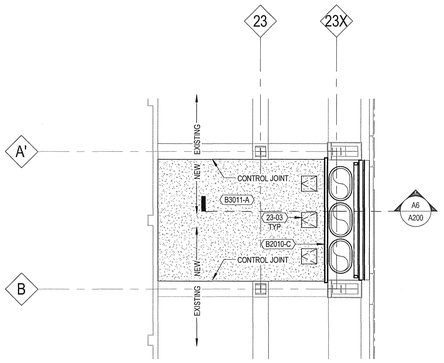
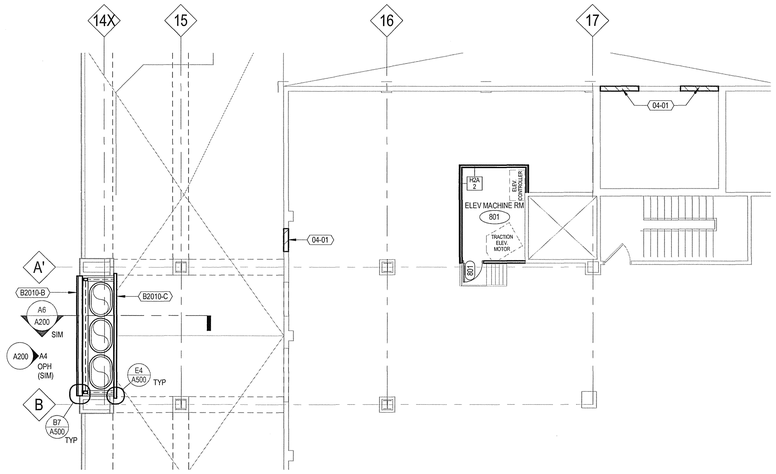


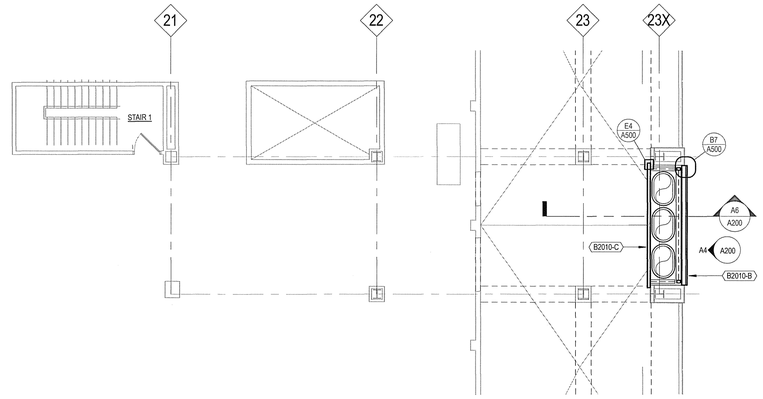
D1 EIGHTH FLOOR CEILING PLAN WEST
1/8" = 1'-0"



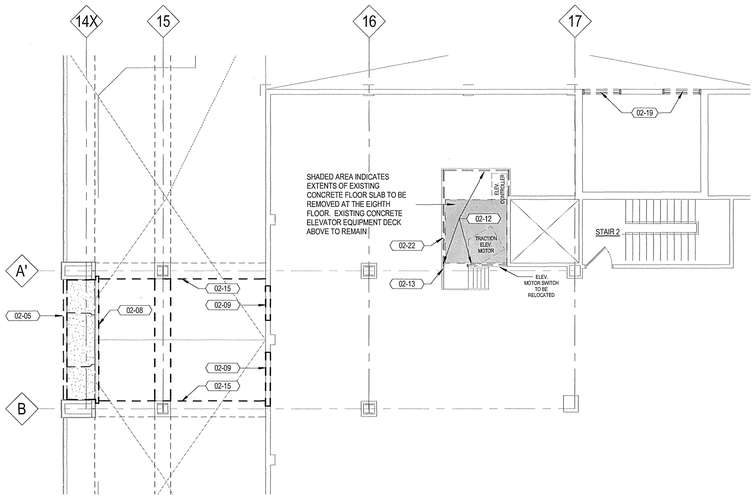
D5 EIGHTH FLOOR CEILING PLAN EAST
1/8" = 1'-0"



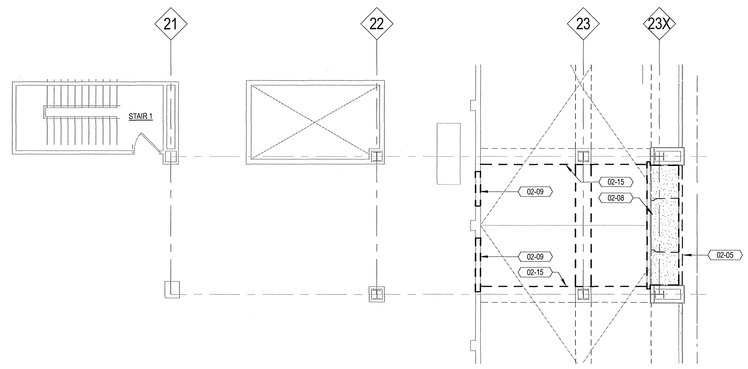
C1 EIGHTH FLOOR PLAN WEST
1/8" = 1'-0"



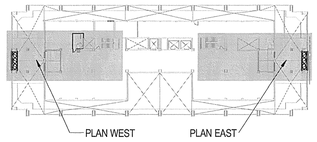
C5 EIGHTH FLOOR PLAN EAST
1/8" = 1'-0"



A1 EIGHTH FLOOR WEST DEMOLITION
1/8" = 1'-0"



A5 EIGHTH FLOOR EAST DEMOLITION
1/8" = 1'-0"



E7 EIGHTH FLOOR KEYPLAN
1" = 50'-0"

GENERAL NOTES

1	BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARLY LIMITED TO ASSESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR FOR THIS PROJECT WILL SEQUENCE DEMOLITION WORK UNDER THIS CONTRACT WITH SEPARATE CITY OF MILWAUKEE HAZARDOUS MATERIAL ABATMENT CONTRACT.
2	REFER TO SHEET A001 FOR EXTERIOR ASSEMBLY AND INTERIOR WALL DIAGRAMS
3	TEMPORARY WALL B2010-A & B2010-A0 TO BE DEMOLISHED ONCE THE EXTERIOR MACHANICAL CHASE AND ENCLOSURE WALLS ARE INSTALLED
4	FURNITURE RELOCATION IS BY OWNER AND IS INDICATED FOR REFERANCE ONLY
5	SEE ELECTRICAL DRAWINGS FOR TEMPORARY & FINAL POWER TELECOM. & DATA PROVISIONS

KEYED NOTES

01-04	BOTTOM FACE OF CEILING ASSEMBLY TO ALIGN WITH BOTTOM FACE OF EXISTING BEAM WRAP (TYPICAL)
02-05	REMOVE EXISTING EXTERIOR PRECAST WALL PANEL, INSULATION AND ANY ASSOCIATED FRAMING AND PLASTER TIED TO PANEL. REFER TO DEMO ELEVATIONS FOR ADDITIONAL INFORMATION
02-08	REMOVE PORTION OF ROOF INSULATION AND BUILT-UP ROOFING FOR EXTERIOR WALL ASSEMBLY
02-09	REMOVE PORTION OF EXISTING MASONRY WALL FOR MECHANICAL PENETRATION. REFER TO STRUCTURAL DRAWINGS FOR OPENING SIZE AND LINTEL LOCATION
02-12	REMOVE EXISTING GUARDRAIL
02-13	MODIFY EXISTING GUARDRAIL TO ACCEPT NEW WALL CONDITION
02-15	DASHED LINES INDICATE EXTENT OF EXISTING SUSPENDED CEMENT PLASTER AND METAL STUD CEILING TO BE REMOVED
02-19	REMOVE EXISTING LOUVER
02-22	REMOVE EXISTING ACCESS DOOR. EXISTING OPENING TO REMAIN
04-01	INFILL EXISTING LOUVER OPENING WITH CMU. TOOTH IN MASONRY AS REQUIRED. PAINT EXTERIOR TO MATCH EXISTING.
23-03	24" WIDE X 24" HIGH ACCESS PANEL TO BE CENTERED ON DUCT RISER AS SHOWN

eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

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KEY PLAN

PLAN NORTH

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

EIGHTH FLOOR DEMOLITION AND FLOOR PLAN

A108

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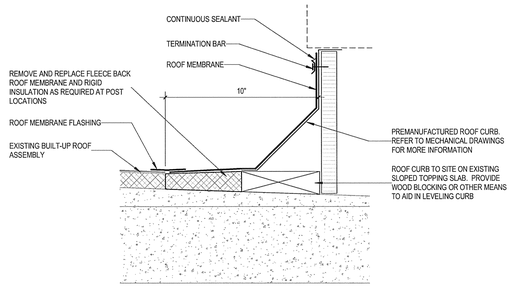
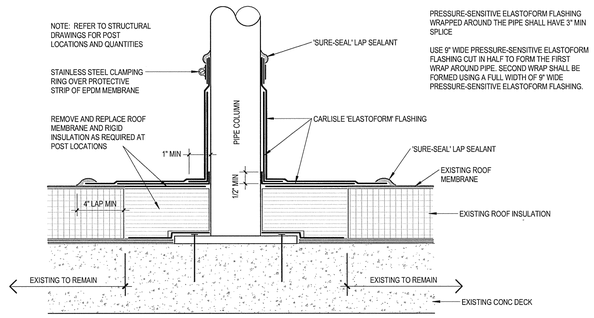
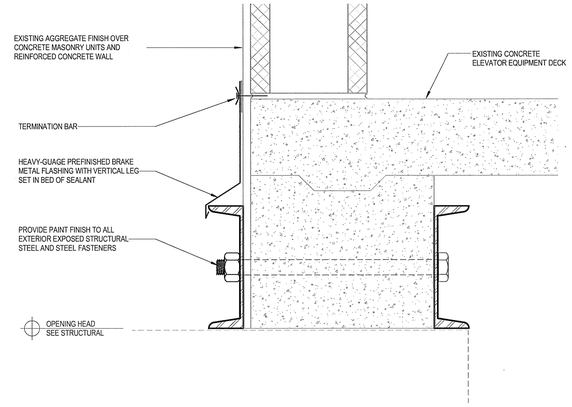


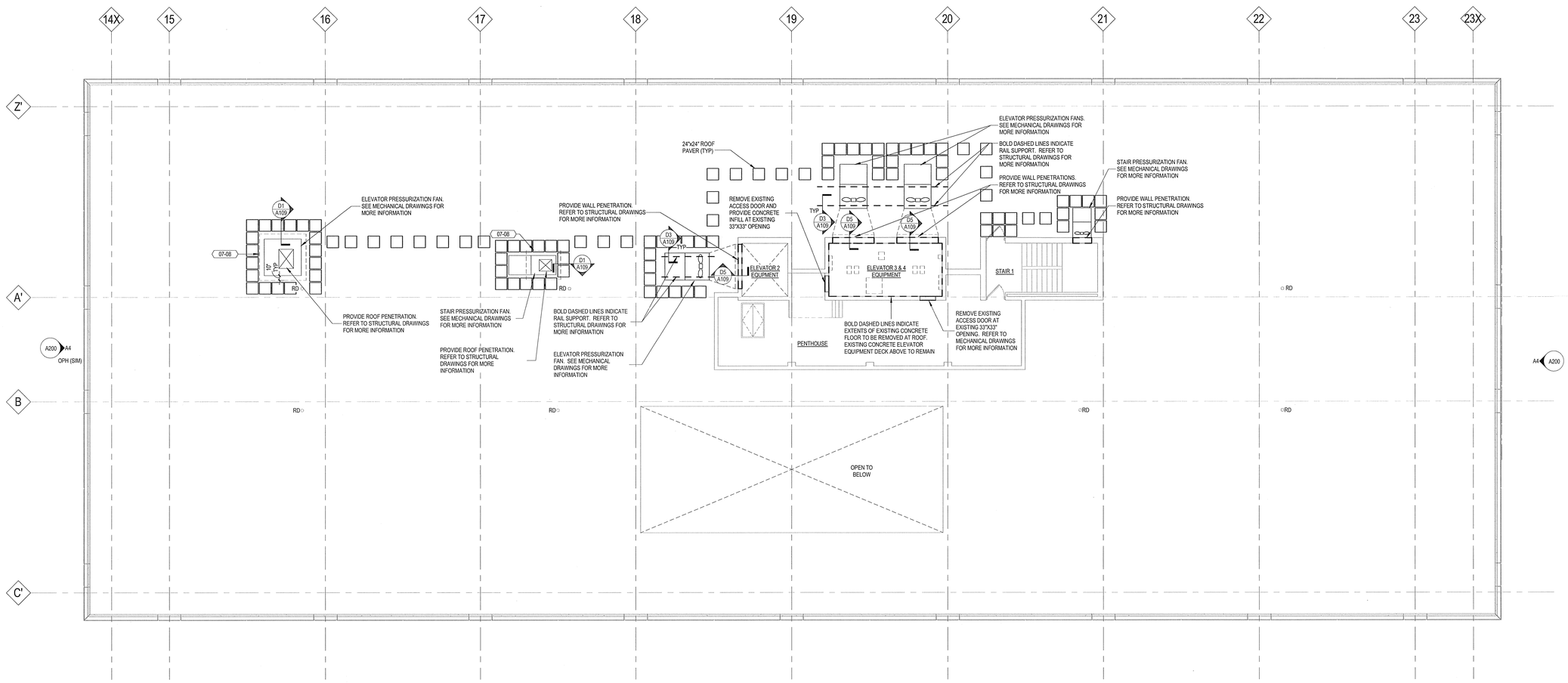
D1 CURB FLASHING DETAIL
3" = 1'-0"



D3 ROUND PENETRATION DETAIL
3" = 1'-0"



D5 LINTEL FLASHING DETAIL
3" = 1'-0"



A1 ROOF PLAN
1/8" = 1'-0"

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
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PLAN NORTH

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ROOF PLAN & DETAILS

A109

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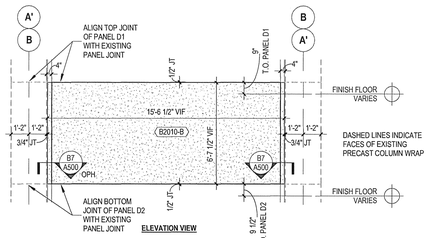
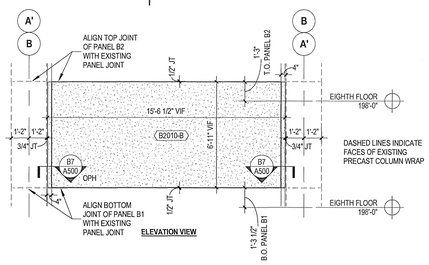


PANEL TYPE D



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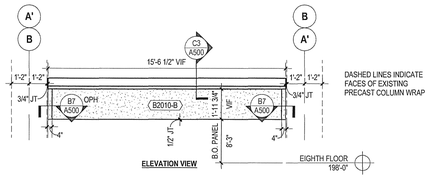
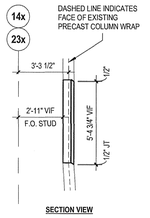
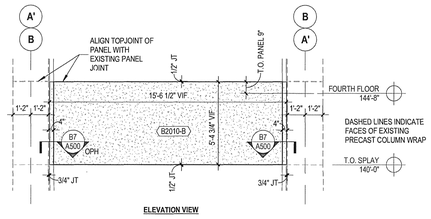


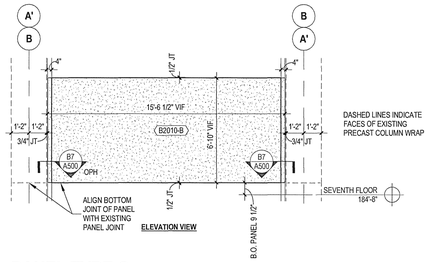
PANEL TYPE A



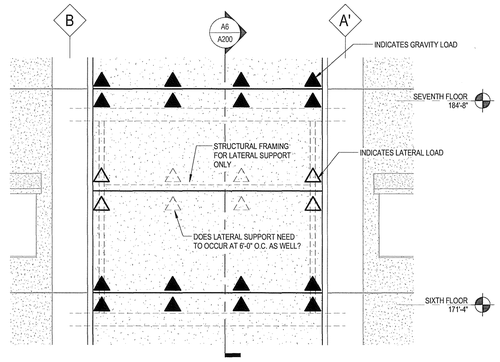
USE THIS SECTION VIEW FOR PANEL TYPES A-D TO ESTABLISH LOCATION FROM GRIDLINES 14x/28x



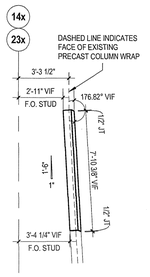
PANEL TYPE E

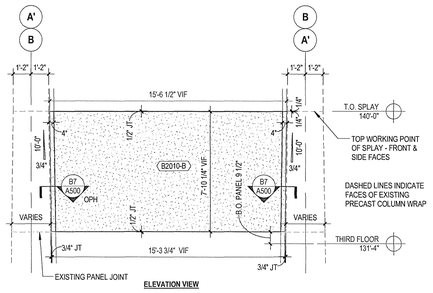


PANEL TYPE C

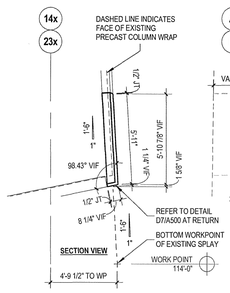


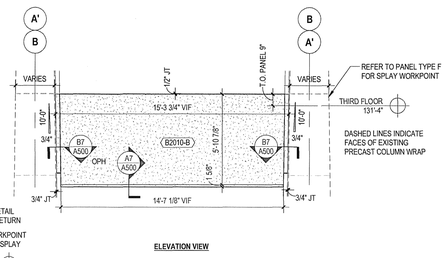
D6 OPTION A ENLARGED ELEVATION
1/4" = 1'-0"



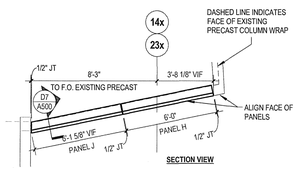


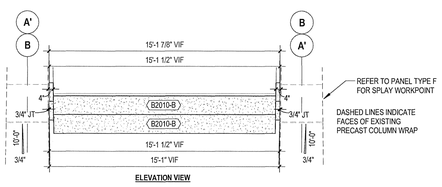
PANEL TYPE F



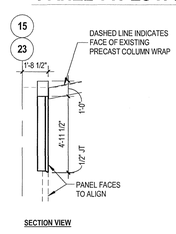


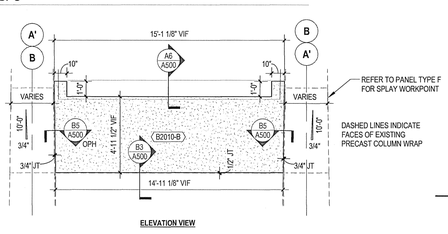
PANEL TYPE G



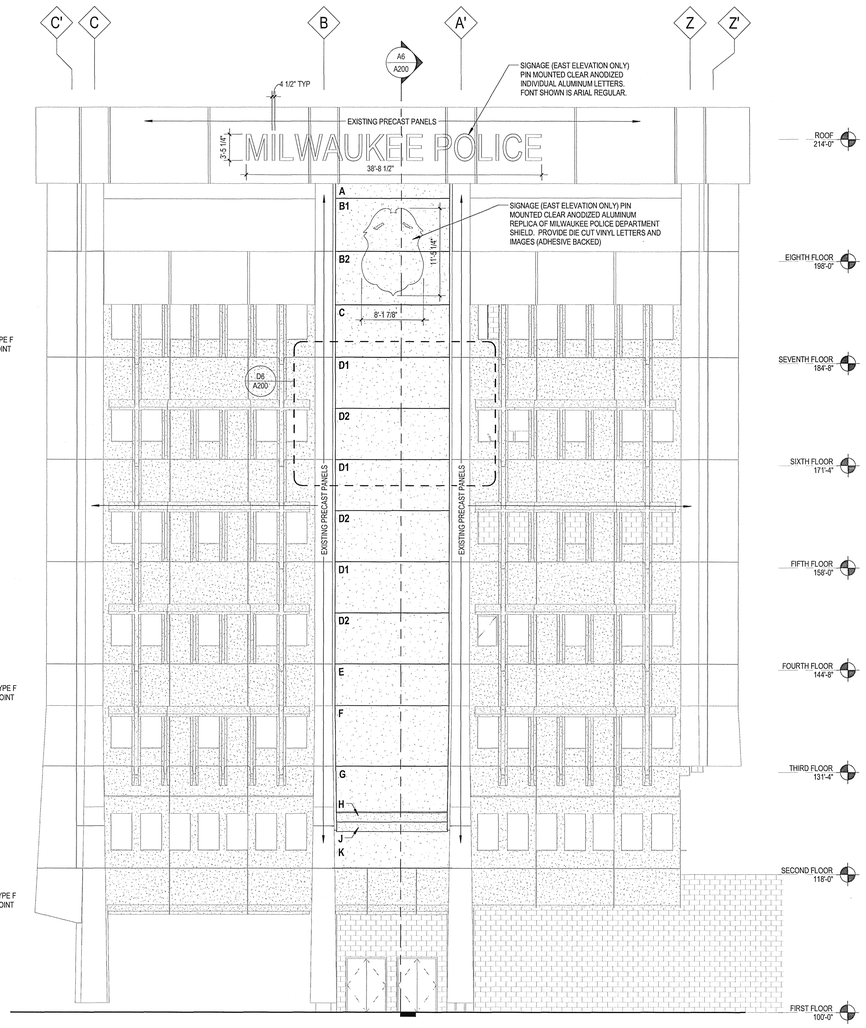


PANEL TYPES H & J

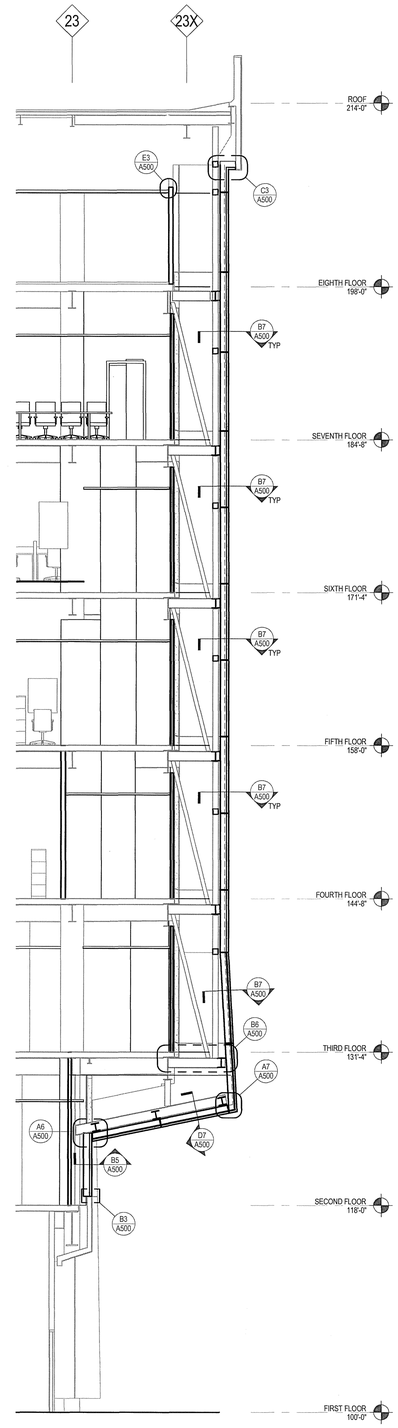




PANEL TYPE K



A4 EAST ELEVATION (WEST ELEVATION SIM.)
1/8" = 1'-0"



A6 WALL SECTION LOOKING NORTH
3/16" = 1'-0"

GENERAL PRECAST WALL PANEL NOTES

1. THE DESIGN INTENT FOR ALL PRECAST WALL PANELS IS TO MIMIC THE AESTHETIC OF THE EXISTING PRECAST FORMS AND JOINT PATTERNS TO THE NORTH AND SOUTH. PANEL TYPES AND DIMENSIONS INDICATED ARE INTENDED TO PROVIDE A MORE DETAILED LOOK AT THIS INTERACTION. ALL DIMENSIONS NEED TO BE VERIFIED IN FIELD WITH THE GOAL OF MATCHING EXISTING CONDITIONS AS MUCH AS POSSIBLE
2. ALL PANEL JOINTS TO RECEIVE BACKER ROD AND SEALANT. COLOR TO MATCH PRECAST WALL PANELS.
3. ALL LUGS, ANCHORS, FASTENERS, ETC. NECESSARY FOR PANEL ATTATCHMENT TO STEEL SUBFRAME BY PANEL SUPPLIER
4. A/E HAS ASSUMED A 8" STUD FOR DESIGN INTENT PURPOSES ONLY. FINAL STUD SIZE TO BE DETERMINED BY PANEL ENGINEER. THE LOCATION OF INSIDE FACE OF STUD SHALL HOLD WITH THE EXCEPTION OF THE VERTICAL PANELS AT THE SECOND FLOOR. FOR THESE PANELS, THE LOCATION OF THE OUTSIDE FACE OF PRECAST SHALL HOLD
5. REFER TO DETAIL A4/A500 FOR TYPICAL HORIZONTAL JOINT DETAIL BETWEEN PANELS

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

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ELEVATIONS & SECTION

A200

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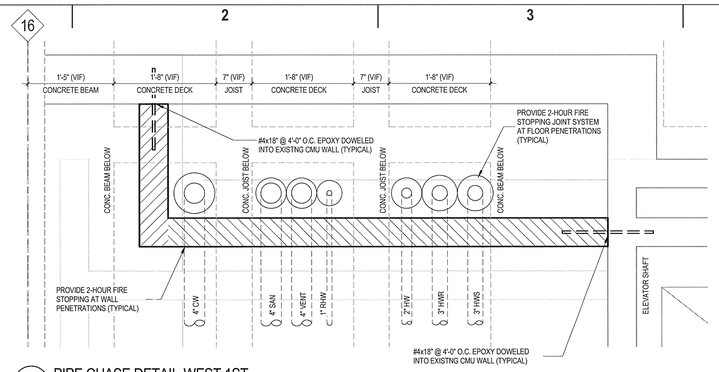
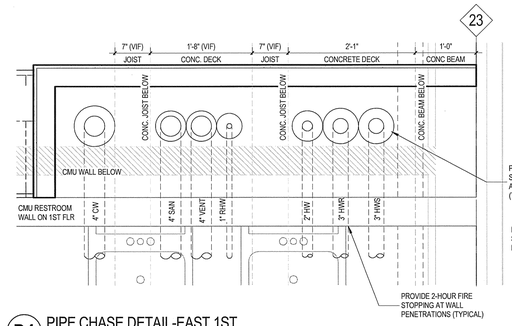
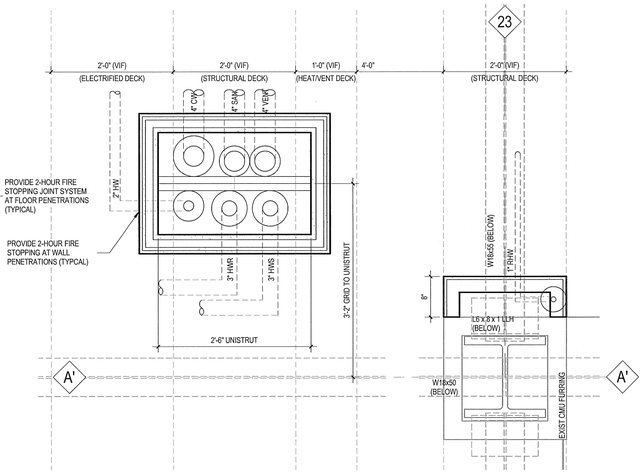


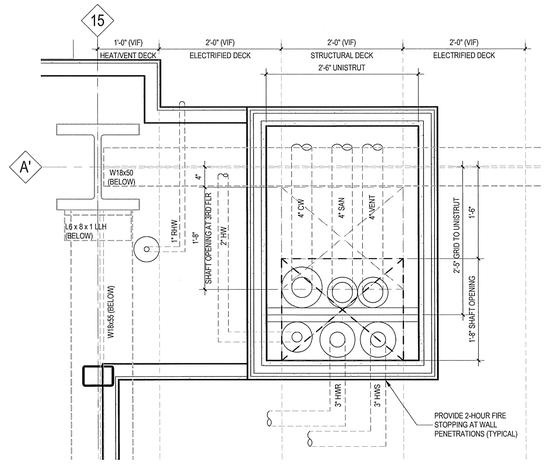
D1 PIPE CHASE DETAIL-WEST 1ST
1" = 1'-0"



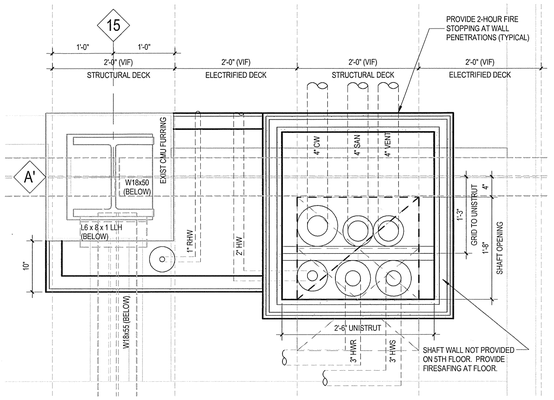
D4 PIPE CHASE DETAIL-EAST 1ST
1" = 1'-0"



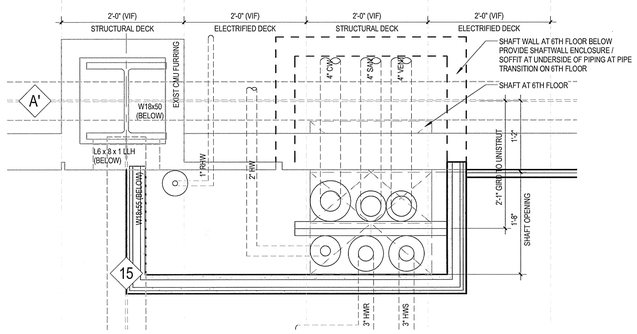
D6 PIPE CHASE DETAIL-EAST-2ND TO 3RD
1" = 1'-0"



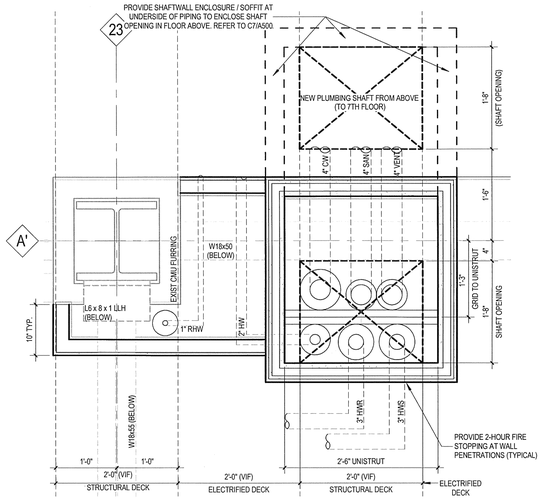
C1 PIPE CHASE DETAIL-WEST 2ND
1" = 1'-0"



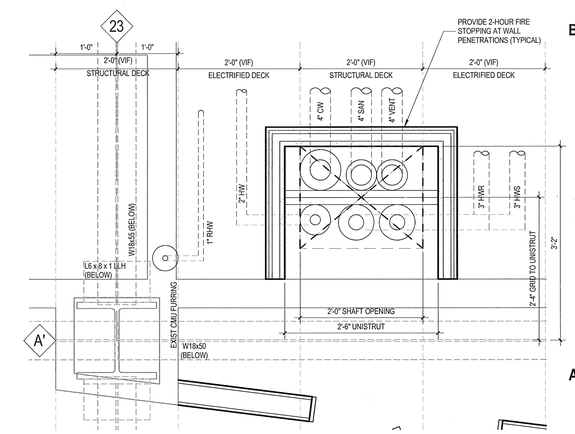
B1 PIPE CHASE DETAIL-WEST 3RD TO 6TH
1" = 1'-0"



A1 PIPE CHASE DETAIL-WEST 7TH FLR
1" = 1'-0"



B6 PIPE CHASE DETAIL-EAST 4TH TO 6TH
1" = 1'-0"



A6 PIPE CHASE DETAIL-EAST 7TH
1" = 1'-0"

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

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ENLARGED SHAFT VIEWS

A400

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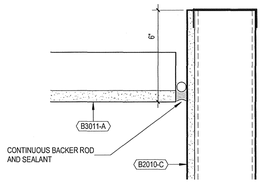
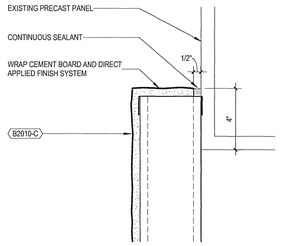
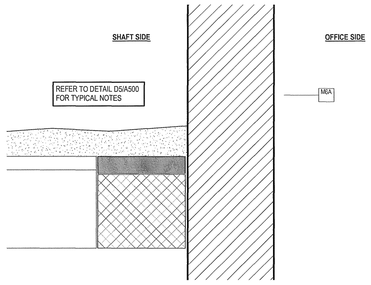


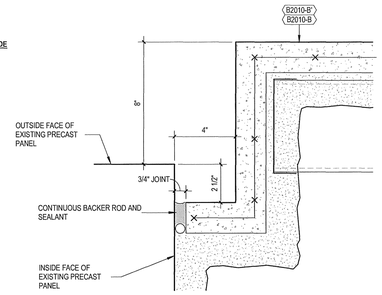
E3 EXTERIOR WALL AT SOFFIT
3" = 1'-0"



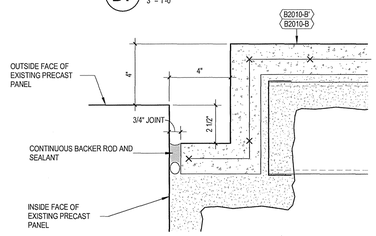
E4 EXTERIOR WALL JAMB DETAIL
3" = 1'-0"



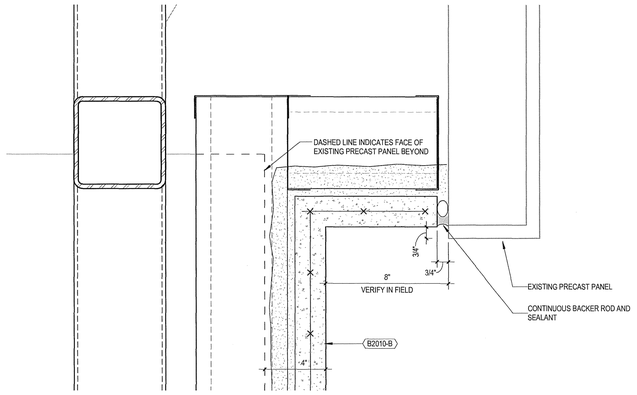
E5 RATED CLOSURE DETAIL AT CMU
3" = 1'-0"



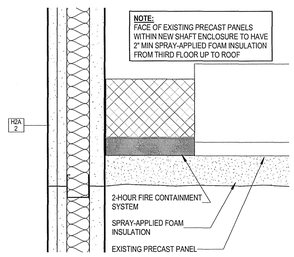
D7 PANEL END 8" REVEAL DETAIL
3" = 1'-0"



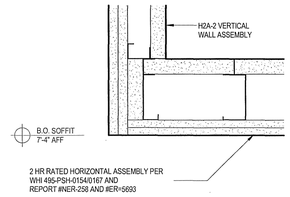
B7 PANEL END 4" REVEAL DETAIL
3" = 1'-0"



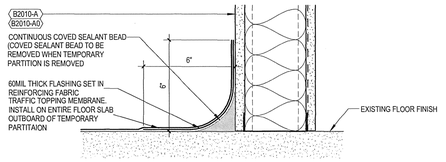
C3 PANEL AT EXISTING PRECAST FASCIA
3" = 1'-0"



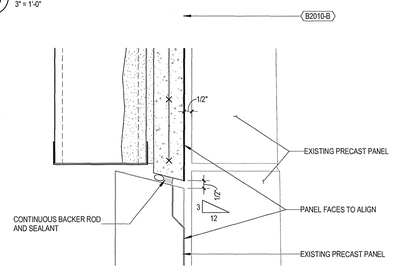
D5 RATED CLOSURE DETAIL SHAFT WALL
3" = 1'-0"



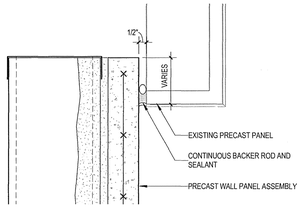
C7 HORIZONTAL ASSEMBLY DETAIL
3" = 1'-0"



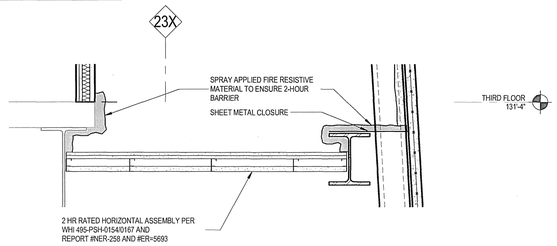
C5 TEMPORARY WALL BASE DETAIL
3" = 1'-0"



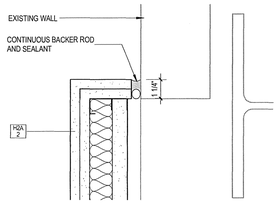
B3 PANEL TRANSITION DETAIL
3" = 1'-0"



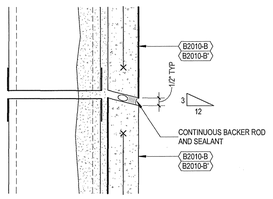
B5 PRECAST JAMB DETAIL
3" = 1'-0"



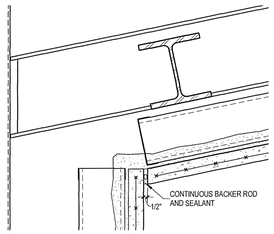
B6 HORIZONTAL SHAFT WALL DETAIL
1" = 1'-0"



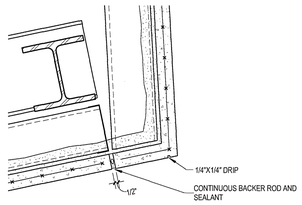
A3 RATED CLOSURE TRANSITION DETAIL
3" = 1'-0"



A4 TYPICAL PANEL TRANSITION DETAIL
3" = 1'-0"



A6 PANEL CONVERSION DETAIL
1 1/2" = 1'-0"



A7 PANEL AT HORIZONTAL RETURN
1 1/2" = 1'-0"

eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH-RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	PK
PROJECT NUMBER	310077-09
DATE	04/02/2012

DETAILS

A500

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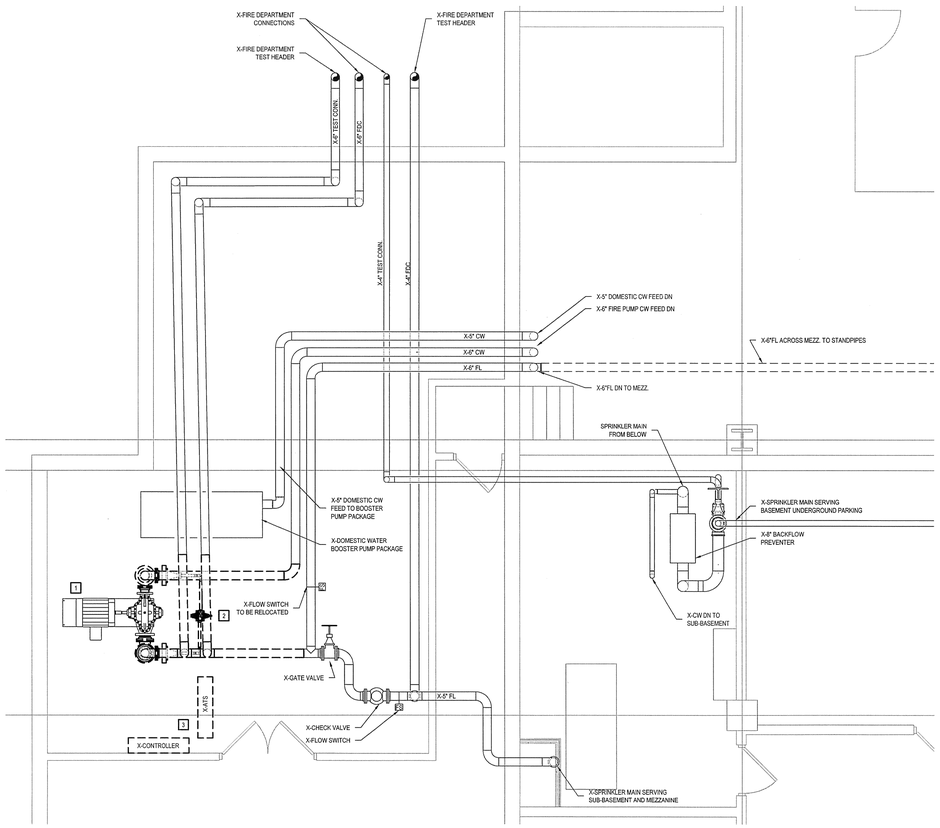


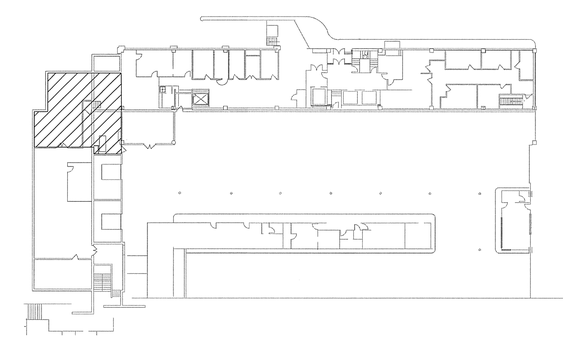
1 FD100A BASEMENT FIRE PROTECTION DEMOLITION PLAN
1/4" = 1' - 0"

DEMOLITION NOTES

1. REMOVE EXISTING FIRE PUMP AND JOCKEY PUMP SERVING EXISTING STAIRWELL STANDPIPES. EXISTING FIRE PUMP AND JOCKEY PUMP SHALL REMAIN IN OPERATION UNTIL NEW FIRE PUMP AND NEW JOCKEY PUMP ARE INSTALLED, TESTED AND ACCEPTED BY AHJ. COORDINATE CHANGEOVER PERIOD WITH GENERAL CONTRACTOR AND BUILDING OPERATIONS STAFF.
2. FOLLOWING COMPLETION OF CHANGEOVER AND TESTING OF NEW FIRE PUMP AND JOCKEY PUMP, REMOVE EXISTING PORTION OF FIRE LINE.
3. REMOVE EXISTING CONTROLLERS AND AUTOMATIC TRANSFER SWITCH.

GENERAL NOTES

1. NEW FIRE PUMP SYSTEM, CONTROLS AND PIPING SHALL BE SUBMITTED AS AN ALTERNATE BID DEDUCT ITEM.
2. A FIRE WATCH SHALL BE PROVIDED PER NFPA 1 GUIDLINES. CONTRACTOR TO COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
3. CONTRACTOR SHALL MODIFY EXISTING SPRINKLER HEADS TO ACCOMMODATE FOR NEW PLUMBING IN THE MEZZANINE. COORDINATE WITH DIVISION 22 CONTRACTOR AND REFER TO DWG 4/MP200.
4. ALL NEW TIE-INS TO EXISTING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
4. BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR SHALL SEQUENCE DEMOLITION WORK WITH THE CITY OF MILWAUKEE.



Key Plan
NOT TO SCALE

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

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REVISIONS

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Sub-Basement & Basement Fire Protection Demolition Plans

FD100A

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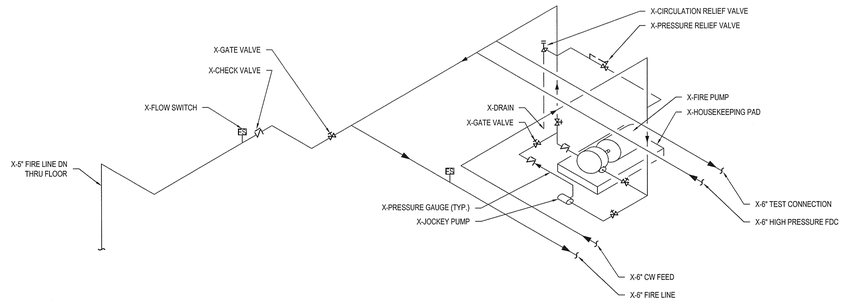
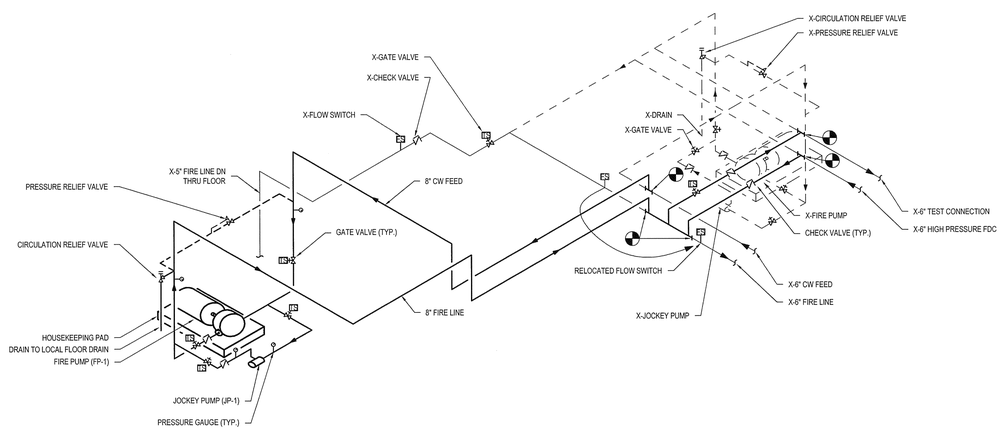
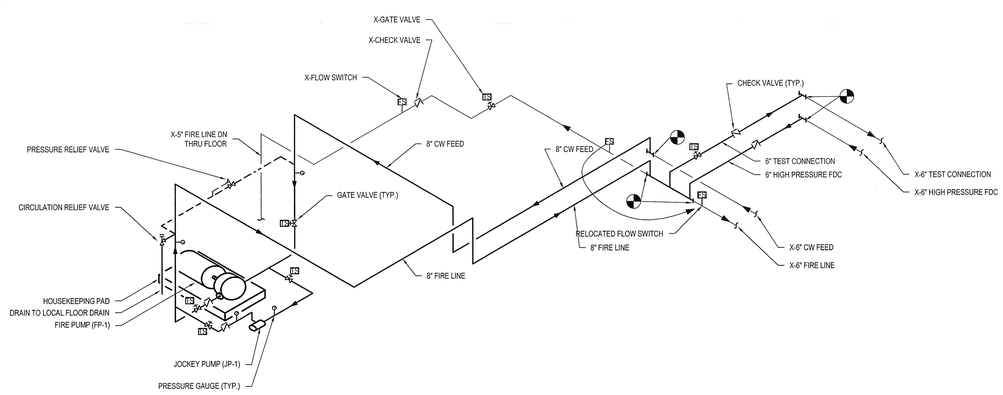


1 F000 FIRE PROTECTION SCHEMATIC (EXISTING)
NOT TO SCALE



2 F000 FIRE PROTECTION SCHEMATIC (TRANSITION)
NOT TO SCALE



3 F000 FIRE PROTECTION SCHEMATIC (PHASE COMPLETE)
NOT TO SCALE

NOTES:
1. PROVIDE PRESSURE RELIEF VALVE WITH TIE-IN TO CW FEED SIDE OF PUMP. PROVIDE MINIMUM BYPASS PIPE AND VALVE SIZE AS SPECIFIED BY PUMP MANUFACTURER.
2. PROVIDE CIRCULATION RELIEF VALVE IN CONJUNCTION WITH PRESSURE RELIEF VALVE. THE CIRCULATION RELIEF VALVE SHALL BE SIZED PER NFPA AND MANUFACTURER'S REQUIREMENTS.
3. EXISTING FIRE PUMP SHUTDOWN SHALL BE AS MINIMAL AS POSSIBLE. COORDINATE SHUTDOWN PERIOD WITH OWNER FOR TIE-IN OF NEW FIRE PUMP AND PIPING.
4. EXISTING FIRE PUMP SHALL REMAIN IN OPERATION UNTIL NEW FIRE PUMP IS FULLY OPERATIONAL AND ACCEPTED BY AHJ.
5. INTEGRATE EXISTING AND NEW TAMPER AND FLOW SWITCHES INTO EXISTING FIRE ALARM SYSTEM. REPLACE SWITCHES IF NECESSARY.
6. CONTRACTOR TO PROVIDE UNIT PRICE FOR SWITCH/SENSOR REPLACEMENT WITH BID. CONTRACTOR TO VERIFY SWITCH/SENSOR OPERATION DURING CONSTRUCTION PHASE AND PROVIDE NEW WHERE MISSING OR NOT OPERATIONAL.

PUMPS

MARK	MANUFACT	MODEL	TYPE	MATERIAL	GPM	HEAD PSI	MOTOR WATTS	MOTOR HP	MOTOR RPM	MOTOR FLA	MOTOR VOLTS	REMARKS
FP-1	AURORA	6-481-18B	HORIZONTAL SPLIT CASE	CAST IRON / BRONZE	1250	100	-	125	1770	-	460V / 3Ø	1
JP-1	AURORA	F05-8F (2"X1-1/2")	REGENERATIVE TURBINE	CAST IRON / SS	10	110	-	2	3500	-	460V / 3Ø	2

1. PROVIDE WITH NEMA 2 RATED SOLID STATE REDUCED VOLTAGE SOFT START MAIN CONTROLLER WITH INTEGRAL TRANSFER SWITCH.
2. PROVIDE WITH NEMA 2 ACCROSS THE LINE CONTROLLER.

GENERAL NOTES

1. NEW FIRE PUMP SYSTEM, CONTROLS AND PIPING SHALL BE SUBMITTED AS AN ALTERNATE BID DEDUCT ITEM.
2. A FIRE WATCH SHALL BE PROVIDED PER NFPA 1 GUILDLINES. CONTRACTOR TO COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
3. CONTRACTOR SHALL MODIFY EXISTING SPRINKLER HEADS TO ACCOMMODATE FOR NEW PLUMBING IN THE MEZZANINE. COORDINATE WITH DIVISION 22 CONTRACTOR AND REFER TO DWG 4/MP200.
4. ALL NEW TIE-INS TO EXISTING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
4. BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR SHALL SEQUENCE DEMOLITION WORK WITH THE CITY OF MILWAUKEE.

FIRE PROTECTION ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ATS	AUTOMATIC TRANSFER SWITCH
CW	COLD WATER FEED
DN	DOWN
FDC	FIRE DEPARTMENT CONNECTION
FL	FIRE LINE
X-__	EXISTING PIPING OR EQUIPMENT

FIRE PROTECTION LEGEND

- NEW FIRE PROTECTION EQUIPMENT
- NEW PIPING / COMPONENT
- EXISTING FIRE PROTECTION COMPONENT
- DEMOLISHED FIRE PROTECTION COMPONENT
- KEY NOTE
- DEMO NOTE
- TAMPER SWITCH (SUPERVISORY SWITCH)
- FLOW SWITCH
- PRESSURE SWITCH
- CONNECT TO EXISTING
- OS&Y VALVE
- PRESSURE GAUGE
- CHECK VALVE
- PRESSURE RELIEF VALVE

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 0580

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR. STE 180 WAUKESHA, WI 53186 262.549.1190 fx. 262.549.1820

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

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KEY PLAN

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Fire Protection Schedules, Schematics Legend & Notes

F000

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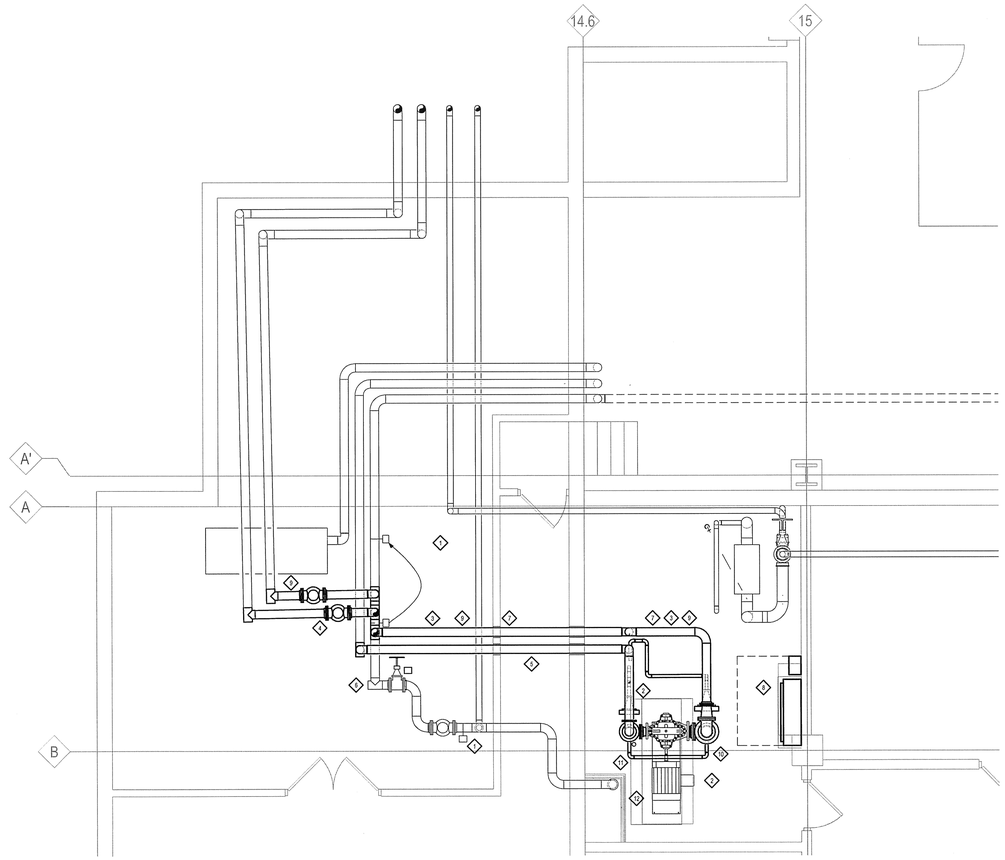

1 F100A BASEMENT FIRE PROTECTION PLAN
1/4" = 1' - 0"

KEY NOTES

1. VERIFY OPERATION OF EXISTING FLOW SWITCH.
2. PROVIDE NEW FIRE PUMP AND JOCKEY PUMP AS SCHEDULED.
3. PROVIDE NEW COLD WATER FEED AND PUMP DISCHARGE FIRE LINES WITH CONNECTION TO EXISTING. COORDINATE WITH EXISTING PIPING AND STRUCTURE.
4. PROVIDE NEW FIRE DEPARTMENT CONNECTION AND TEST HEADER LINES WITH CONNECTION TO EXISTING. COORDINATE WITH EXISTING PIPING AND STRUCTURE.
5. COORDINATE LOCATION OF NEW FIRE LINES WITH EXISTING DUCTWORK AND ACCESS PANEL. MAINTAIN MINIMUM CLEARANCE OF 7'-2" AFF.
6. CAP OFF EXISTING FIRE PROTECTION LINE.
7. COORDINATE EXACT WALL PENETRATION WITH EXISTING DUCTWORK AND SANITARY PIPING. CONTRACTOR SHALL INSTALL PIPING AS HIGH AS POSSIBLE. SEAL WALL PENETRATION WITH APPROVED FIRE STOP MATERIALS.
8. PROVIDE 36" CLEARANCE IN FRONT OF PUMP CONTROLLERS.
9. ROUTE NEW PIPING TIGHT TO EXISTING PIPING AND AS HIGH/TIGHT TO CEILING AS POSSIBLE. COORDINATE ROUTING WITH EXISTING CONDITIONS.
10. ROUTE PRESSURE RELIEF DRAIN TO EXISTING FLOOR DRAIN AND RE-PIPE DRAIN FROM EXISTING CHECK VALVE.
11. COORDINATE EXACT LOCATION OF NEW FIRE PUMP AND HOUSEKEEPING PAD WITH EXISTING FLOOR DRAIN. COORDINATE WITH DIVISION 22 CONTRACTOR.
12. COORDINATE EXACT LOCATION AND LAYOUT OF THE NEW FIRE PUMP WITH SERVICE CLEARANCES AND EXISTING CONDITIONS.

GENERAL NOTES

1. NEW FIRE PUMP SYSTEM, CONTROLS AND PIPING SHALL BE SUBMITTED AS AN ALTERNATE BID DEDUCT ITEM.
2. A FIRE WATCH SHALL BE PROVIDED PER NFPA 1 GUILDLINES. CONTRACTOR TO COORDINATE WITH LOCAL AUTHORITIES HAVING JURISDICTION.
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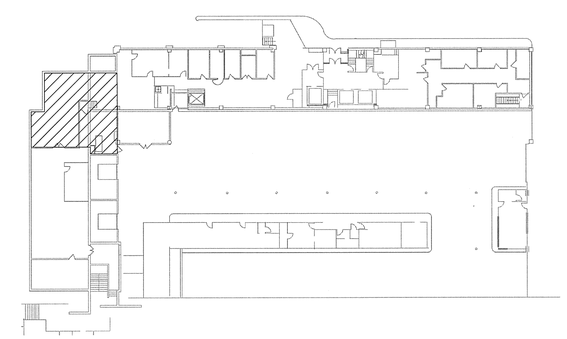

Key Plan
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eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR. STE 180, WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

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PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Sub-Basement & Basement Fire Protection Plans

F100A

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VAV BOXES

PLAN DESIGNATION		VAV-1	VAV-2	VAV-3	VAV-4	VAV-5
MANUFACTURER		TRANE	TRANE	TRANE	TRANE	TRANE
MODEL		VCWF12	VCWF08	VCWF05	VCWF08	VCWF08
INLET SIZE		12"	8"	6"	8"	8"
AIRFLOW	MAX - CFM	1480	645	360	700	780
	MIN - CFM	740	300	100	200	260
	MAX PRESSURE DROP - IN WC	0.5	0.5	0.5	0.5	0.5
	MIN INLET PRESSURE - IN WC	0.1	0.1	0.1	0.1	0.1
COIL OUTPUT @ MIN AIRFLOW	CAPACITY - MBH	52.16	17.89	5.96	11.93	15.51
	ENTERING AIR TEMP - °F	45	45	45	45	45
	LEAVING AIR TEMP - °F	110	110	110	110	110
	ENTERING WATER TEMP - °F	180	180	180	180	180
	LEAVING WATER TEMP - °F	150	150	150	150	150
	ROWS	2	2	1	2	2
	FLOW RATE - GPM	3.83	1.24	0.54	0.68	0.98
	MAX PRESSURE DROP - FT WC	0.82	0.14	0.59	0.05	0.09

TIE INTO EXISTING BUILDING AUTOMATION SYSTEM. PROVIDE WITH ROOM SENSOR.

DIFFUSERS & GRILLES

PLAN DESIGNATION		S-1	S-2	S-3	S-4	R-1
MANUFACTURER		TITUS	TITUS	TITUS	TITUS	TITUS
MODEL		TDC-AA	TDC-AA	TDC-AA	TDC-AA	PAR
CONSTRUCTION	TYPE	LOUVERED	LOUVERED	LOUVERED	LOUVERED	PERFORATED
	MOUNTING	LAY-IN	LAY-IN	LAY-IN	LAY-IN	LAY-IN
CFM		160	225	320 - 350	390 - 495	1020 - 1230
LOUVERED FACE SIZE		18"x18"	18"x18"	18"x18"	18"x18"	24"x24"
GRILLE SIZE		24"x24"	24"x24"	24"x24"	24"x24"	24"x24"
DUCT SIZE		6"	8"	10"	12"	18"x 18"
NC		22	11	23	23	26
NOTES		1	1	1	1	

1. GRILLE TO BE PROVIDED WITH 4-WAY FIXED BLADE AIR PATTERN.

LOUVERS

PLAN DESIGNATION		L-1	L-2
MANUFACTURER		GREENHECK	GREENHECK
MODEL		EDJ-601	EDJ-601
CONSTRUCTION	TYPE	STATIONARY - DRAINABLE	STATIONARY - DRAINABLE
	MATERIAL	ALUMINUM	ALUMINUM
CFM		800	800
SIZE	WIDTH	20"	20"
	HEIGHT	24"	24"
	DEPTH	6"	6"
MAX FREE AREA VELOCITY		800	800
MAX PRESSURE DROP - IN WC		0.10	0.10
FINISH		KYNAR 500 - 50%	KYNAR 500 - 50%
ACCESSORIES	EXTENDED SILL	X	X
	HINGED FRAME		
	SECURITY BARS		
	FILTER RACKS		
	INSECT SCREEN	X	X

COORDINATE COLOR SELECTION WITH ARCHITECT.
APPROVED EQUALS BY RUSKIN, VENT PRODUCTS.

FAN COILS

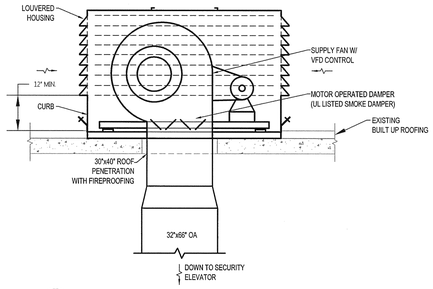
PLAN DESIGNATION		FC-1
MANUFACTURER		TRANE
MODEL		BCHC024A1
MOUNTING		HORIZONTAL - HUNG
AIRFLOW	SUPPLY AIR - CFM	800
	OUTSIDE AIR - CFM	0 TO 800
	ESP - IN WC	0.40
FAN	QUANTITY	1
	HORSEPOWER EACH	1/3
	VOLTS / PHASE	277V / 1Ø
COOLING	SENSIBLE CAPACITY - MBH	21.1
	TOTAL CAPACITY - MBH	23.6
	ENTERING AIR TEMP - °F (DB)	80.0
	ENTERING AIR TEMP - °F (WB)	67.0
	LEAVING AIR TEMP - °F (DB)	56.1
	LEAVING AIR TEMP - °F (WB)	55.1
	ENTERING WATER TEMP - °F	43.0
	LEAVING WATER TEMP - °F	50.0
	WATER FLOW RATE - GPM	11.4
	PRESSURE DROP - FT WC	25.1
CONFIGURATION	AIR OUTLET LOCATION	FRONT DISCHARGE
	RETURN AIR INLET LOCATION	BACK INTAKE
	LENGTH	64"
	WIDTH	28"
	HEIGHT	18"
NOTES		1,2,3

1. TIE INTO EXISTING BUILDING AUTOMATION SYSTEM. PROVIDE ROOM SENSOR.
2. UNIT TO INCLUDE MIXING BOX FOR ECONOMIZER OPERATION.
3. EXISTING CHILLED WATER SYSTEM USES 50% GLYCOL MIXTURE.

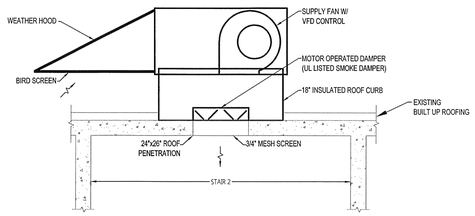
PRESSURIZATION SUPPLY FANS

PLAN DESIGNATION		SF-1	SF-2	SF-3	SF-4	SF-5	SF-6
QUANTITY		1	1	1	1	1	1
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL		LSF-27-150	KSFB-118-925-01	SCE3-54-323-C75	SCE3-54-323-C75	SCE3-54-323-C75	SCE3-36-609-B20
SERVICE		ELEVATOR 1	STAIR 2	ELEVATOR 2	ELEVATOR 3 & 4	ELEVATOR 3 & 4	STAIR 1
LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
CONSTRUCTION	TYPE	DOWNBLAST - CENTRIFUGAL	DOWNBLAST - CENTRIFUGAL	SIDEWALL - PROPELLER	SIDEWALL - PROPELLER	SIDEWALL - PROPELLER	SIDEWALL - PROPELLER
	CASING MATERIAL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL
	FAN MATERIAL	STEEL	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
	DRIVE	BELT	BELT	DIRECT	DIRECT	DIRECT	DIRECT
AIR	CFM	23,000	6,000	35,000	32,000	32,000	10,000
	EXT STATIC PRESS - IN WC	0.55	0.25	0.40	0.40	0.40	0.40
	FAN RPM	1,340	711	860	850	860	1,160
ELECTRICAL	FAN MOTOR HP	15	5	7.5	7.5	7.5	2
	FAN MOTOR BHP	11.03	3.64	7.00	7.00	7.00	2.42
	VOLTS/PHASE	460V / 3Ø	460V / 3Ø	460V / 3Ø	460V / 3Ø	460V / 3Ø	460V / 3Ø
NOTES		2,4,5	2,4,5	1,4,5	1,4,5	1,4,5	3,4,5

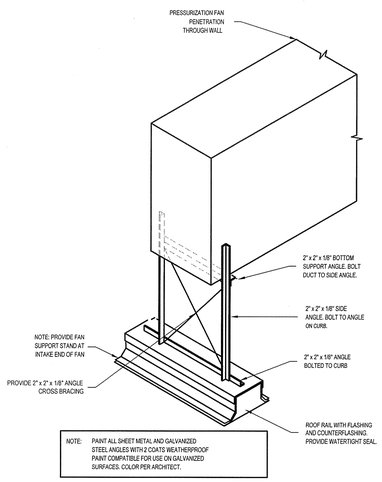
1. PROVIDE WITH VFD CONTROL, FAN HOUSING, VIBRATION ISOLATION AND WEATHER HOOD WITH INTEGRAL BIRD SCREEN.
2. PROVIDE WITH VFD CONTROL, THERMALLY PROTECTED MOTOR OPERATED DAMPER, ROOF CURB AND VIBRATION ISOLATION. UNIT TO INCLUDE DUAL BELTS TO ELIMINATE LOSS OF OPERATION TO BELT FAILURE.
3. PROVIDE WITH VFD CONTROL, FAN HOUSING, VIBRATION ISOLATION, THERMALLY PROTECTED MOTOR OPERATED DAMPER AND WEATHER HOOD WITH INTEGRAL BIRD SCREEN.
4. RPM SPECIFIED IS MAX RATED CFM.
5. PROVIDE WITH INVERTER DUTY MOTORS.



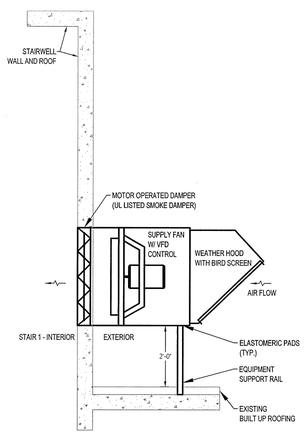
1 M000 SUPPLY FAN DETAIL (SF-1)
NTS



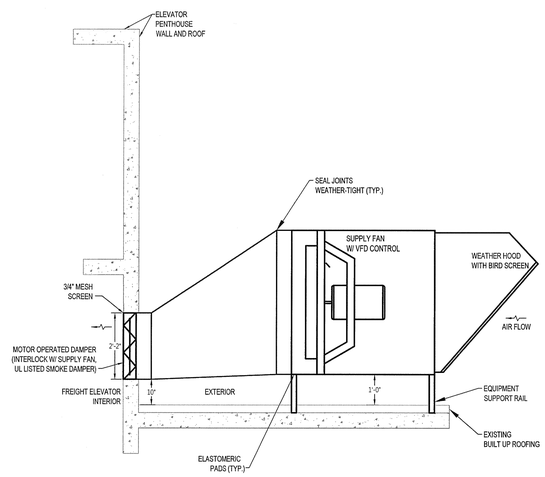
2 M000 SUPPLY FAN DETAIL (SF-2)
NTS



5 M000 ROOFTOP SUPPORT DETAIL
NTS



4 M000 SUPPLY FAN DETAIL (SF-6)
NTS



3 M000 SUPPLY FAN DETAIL (SF-3,4,5)
NTS

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
DN	DOWN
VFD	VARIABLE FREQUENCY DRIVE
___X	EXISTING DUCT / PIPING SYSTEM
EA	EXHAUST AIR
OA	OUTSIDE AIR
RELF	RELIEF AIR
RA	RETURN AIR
SA	SUPPLY AIR
COND	CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
DCWS	DOMESTIC COLD WATER SUPPLY
DHWS	DOMESTIC HOT WATER SUPPLY
DRHW	DOMESTIC RE-CIRCULATED HOT WATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
SS	SANITARY SEWER
V	SANITARY VENT
VTR	VENT THRU ROOF
AHU-*	AIR HANDLING UNIT
CC-*	COILING COIL
EAL-*	EXHAUST AIR LOUVER
EF-*	EXHAUST FAN
FC-*	FAN COIL
HC-*	HEATING COIL
OAL-*	OUTDOOR AIR LOUVER
UH-*	UNIT HEATER
VAV-*	VAV BOX

GENERAL NOTES

1. MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH EXISTING CONDITIONS AND WITH THE WORK OF OTHER TRADES.
2. THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF WORK TO BE ACCOMPLISHED AND AS SUCH DO NOT SHOW ALL REQUIRED OFFSETS OF PIPING. MECHANICAL CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT AS TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND MAINTAIN HEADROOM AND PASSAGEWAY.
3. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF EXISTING CEILING (UNLESS WORK PERFORMED BY GENERAL CONTRACTOR AND IDENTIFIED ON ARCHITECTURAL DRAWINGS.) REPLACE ALL DAMAGED CEILING WITH NEW.
4. KEYNOTES PERTAIN ONLY TO THE DRAWING THEY ARE LOCATED ON.
5. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
6. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.
7. MAINTAIN 15' MINIMUM DISTANCE FROM OUTSIDE AIR INTAKE TO ANY EXHAUST OR TOILET VENTS.
8. VERIFY CONDITION OF EXISTING ELEVATOR GASKETING. COORDINATE WITH ELEVATOR CONTRACTOR FOR REPLACEMENT ON AS NEEDED BASIS. DEVELOP AND PUT IN PLACE MAINTENANCE PLAN FOR PROPER GASKETING. GASKETING CONDITION REVIEW TO BE INCLUDED IN TESTING OF STAIR AND ELEVATOR PRESSURIZATION SYSTEM.
9. EXISTING CONDITIONS AS SHOWN ON DRAWINGS ARE BASED ON LIMITED SITE OBSERVATIONS AND PREVIOUS CONSTRUCTION DRAWINGS. CONTRACTOR TO SITE VERIFY EXISTING CONDITIONS.
10. WORK OUTSIDE OF TEMPORARY WORK ZONES SHALL BE COORDINATED WITH OWNER FOR SCHEDULING. SEE ARCHITECTURAL PLANS FOR LIMITS OF WORK ZONES.
11. ALL NEW TIE-INS TO EXISTING AHU, DUCTWORK AND PIPING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
12. EQUIPMENT SELECTIONS ARE BASED OFF NOTED MANUFACTURERS AND MODELS LISTED ON SCHEDULES. ANY ALTERNATE EQUIPMENT SUBMITTED SHALL MEET OR EXCEED ALL PERFORMANCE CAPACITIES AND FALL WITHIN PHYSICAL DIMENSIONS AND WEIGHTS OF SCHEDULED EQUIPMENT. ALTERNATE SUBMITTALS SHALL MEET ALL SYSTEM REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MODIFICATIONS (STRUCTURAL, ELECTRICAL, MECHANICAL, ETC.) NECESSARY TO ACCOMMODATE ALTERNATE EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
13. BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR SHALL SEQUENCE DEMOLITION WORK WITH THE CITY OF MILWAUKEE.
14. PROVIDE FIRESTOPPING FOR ALL DUCTWORK & PIPING PENETRATIONS AT FIRE RESISTIVE SHAFT WALLS AND FLOOR ASSEMBLIES.

HVAC LEGEND

	NEW HVAC EQUIPMENT
	NEW DUCTWORK
	EXISTING MECHANICAL COMPONENT
	DEMOLISHED MECHANICAL COMPONENT
	MECHANICAL EQUIPMENT SERVICE AREA
	SUPPLY AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN AIR DUCT UP
	RETURN AIR DUCT DOWN
	OUTSIDE AIR DUCT UP
	OUTSIDE AIR DUCT DOWN
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN
	ELBOW WITH TURNING VANES
	FLEX DUCT
M	MOTORIZED DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FS	COMBINATION FIRE/SMOKE DAMPER
	VOLUME DAMPER
	AIR FLOW INDICATOR
S-*	NEW SUPPLY DIFFUSER
R-*/E-*	NEW RETURN/EXHAUST GRILLE
R-*/E-*	NEW RETURN/EXHAUST GRILLE WITH DAMPER
T-*	NEW TRANSFER GRILLE
T	THERMOSTAT
S	SMOKE DETECTOR
T	TEMPERATURE SENSOR
SP	STATIC PRESSURE CONTROLLER
1	KEY NOTE
1	DEMO NOTE
	BALL VALVE
	GATE VALVE
	CONTROL VALVE
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	CAPPED PIPE END

eupstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 tel 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Mechanical Symbols, Schedules & Abbreviations

M000

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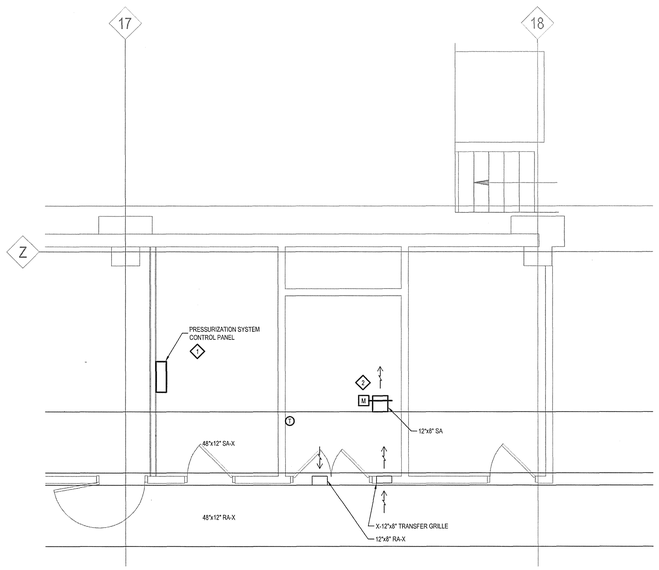


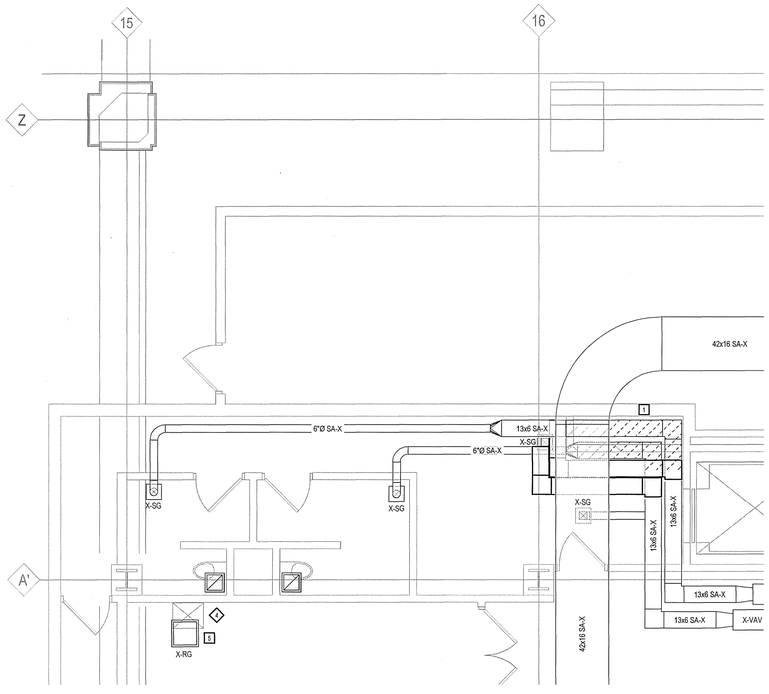
1 M100 FIRE COMMAND CENTER HVAC PLAN (BASEMENT)
1/4" = 1' - 0"

KEY NOTES

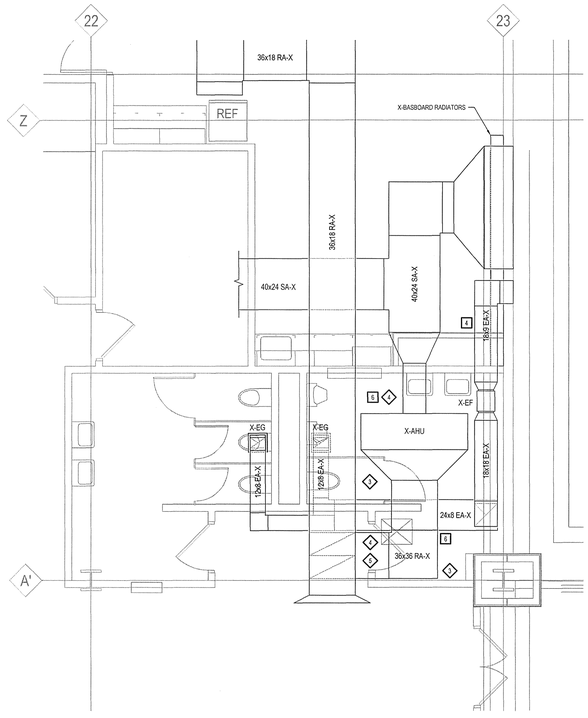
1. PROVIDE NEW STAIRWELL PRESSURIZATION CONTROL PANEL WITH CONNECTION TO EXISTING FIRE ALARM SYSTEM. COORDINATE LOCATION WITH ELECTRICAL DRAWINGS AND EXISTING CONDITIONS. CONTROL PANEL SHALL ACCOMMODATE SEQUENCES AND FUNCTIONS AS NOTED ON M400.
2. PROVIDE NEW 12"x8" SA DUCT TAP OFF OF MAIN IN PLACE OF EXISTING TAP WITH 315 CFM SA. PROVIDE MODULATING DAMPER CONTROLLED BY LOCAL ELECTRONIC THERMOSTAT WITH TIE-IN TO EXISTING BUILDING AUTOMATION SYSTEM. PROVIDE ½" MESH SCREEN AT DUCT OUTLET. COORDINATE WITH EXISTING CONDITIONS.
3. REMOVE EXISTING CEILING, WALLS AND WORK PLATFORMS FOR X-AHU TO ACCOMMODATE FOR NEW PIPING AND REMOVAL/REINSTALLATION OF EXISTING DUCTWORK. PATCH CEILING AND WALLS TO MATCH EXISTING CONSTRUCTION AND FINISHES.
4. BOTTOM OF NEW PIPE SHAFT SHALL BE FULLY FIRESTOPPED.

DEMOLITION NOTES

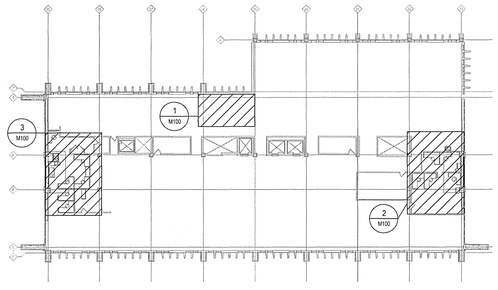
1. REMOVE EXISTING 13x6-X SA SECTION OF DUCTWORK IN CONFLICT WITH NEW PIPE CHASE AND REROUTE 13x6 SA-X AS NECESSARY. RELOCATE EXISTING SUPPLY DIFFUSERS AS NECESSARY TO ACCOMMODATE NEW DUCT ROUTING.
2. CONTRACTOR TO COORDINATE WALL PANEL REMOVAL WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
3. REMOVE EXISTING PERIMETER MIXING BOXES AND AIR CABINETS. CAP SUPPLY AIR TROUGH AT FLOOR.
4. REMOVE EXISTING SECTION OF THE X-BASEBOARD RADIATOR TO ACCOMMODATE FOR NEW PIPE SHAFT.
5. RELOCATE EXISTING RETURN GRILLE AS REQUIRED TO ACCOMMODATE FOR NEW PIPE SHAFT.
6. CONTRACTOR SHALL REMOVE EXISTING SUPPLY AND RETURN DUCTWORK FOR X-AHU AND EXISTING EXHAUST DUCTWORK TO CREATE A WORK AREA FOR THE INSTALLATION OF ALL PIPING ROUTED IN THE CEILING SPACE. RECONNECT OR PROVIDE NEW EXHAUST DUCT, SUPPLY AND RETURN DUCTWORK TO X-AHU.



3 M100 FIRST FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



2 M100 FIRST FLOOR HVAC PLAN EAST
1/4" = 1' - 0"



Key Plan
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eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

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KEY PLAN

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Basement & First Floor HVAC Plans

M100

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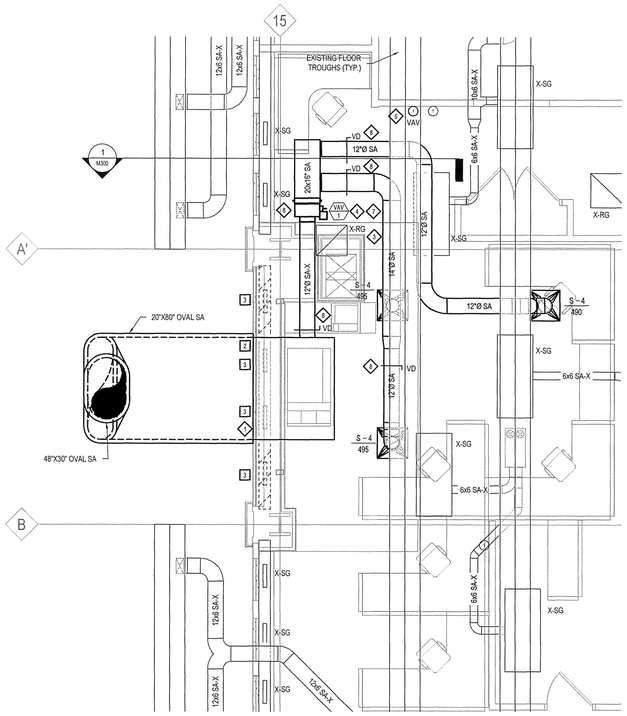
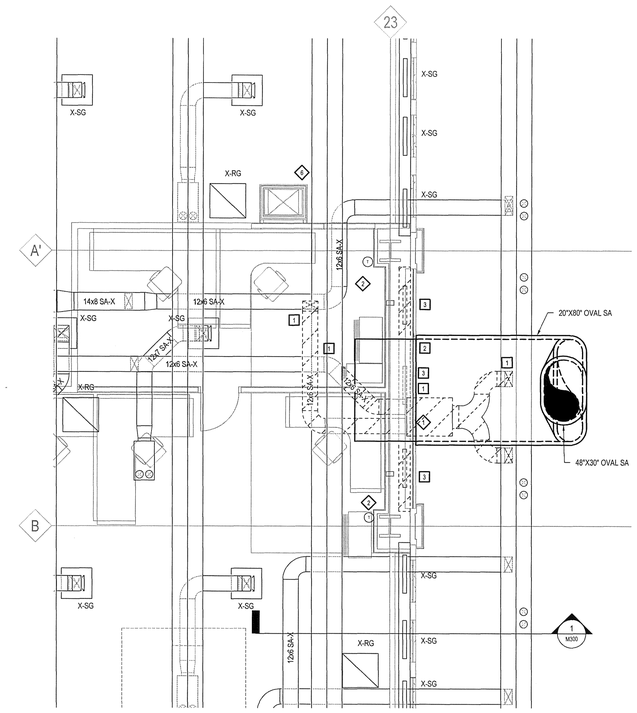


2 M100 SECOND FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



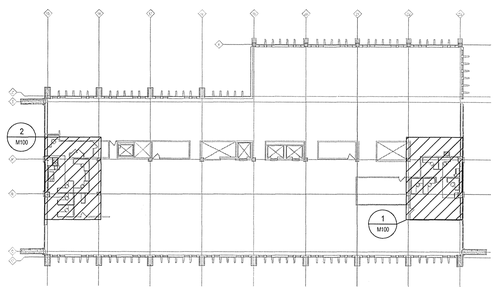
1 M100 SECOND FLOOR HVAC PLAN EAST
1/4" = 1' - 0"

KEY NOTES

1. CAP NEW DUCTWORK FOR FUTURE EXPANSION AND SEAL PENETRATION WEATHER-TIGHT.
2. TEMPORARILY RELOCATE EXISTING THERMOSTAT DURING CONSTRUCTION PERIOD. COORDINATE FINAL PLACEMENT OF EXISTING THERMOSTAT WITH ARCHITECTURAL PLANS.
3. TEMPORARILY RELOCATE EXISTING RETURN AIR GRILLE. COORDINATE PLACEMENT OF EXISTING GRILLE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND LIGHT FIXTURES.
4. PROVIDE NEW VAV BOX WITH CONNECTION TO NEW SUPPLY AIR RISER AND FLOOR SUPPLY TAP. COORDINATE WITH EXISTING CONDITIONS.
5. PROVIDE NEW ELECTRONIC THERMOSTAT TO SERVE NEW VAV BOX. CONNECT TO EXISTING BUILDING AUTOMATION SYSTEM.
6. FIELD VERIFY EXACT LOCATION OF EXISTING HOT/COLD SUPPLY DUCT WITH NEW PIPE SHAFT LOCATION. MODIFY DUCTWORK AS REQUIRED IF NEW PIPE SHAFT AND DUCTWORK ARE IN CONFLICT.
7. REFER TO DWG MP300 FOR VAV BOX HHWS/HHWR PIPING.
8. TAG VAV BOX AND/OR DAMPER PER SPECIFICATIONS.

DEMOLITION NOTES

1. REMOVE EXISTING MIXING BOX, HOT AND COLD SUPPLY DUCTWORK AND DISTRIBUTION DUCTWORK AS INDICATED. CAP HOT AND COLD SUPPLY DUCTS AND CAP PERIMETER FLOOR TROUGH OPENING.
2. CONTRACTOR TO COORDINATE WALL PANEL REMOVAL WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
3. REMOVE EXISTING PERIMETER MIXING BOXES AND AIR CABINETS. CAP SUPPLY AIR TROUGH AT FLOOR.



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eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR. STE 180 WAUKESHA, WI 53186
262.549.1190 fx 262.549.1620

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Second Floor HVAC Plans

M102

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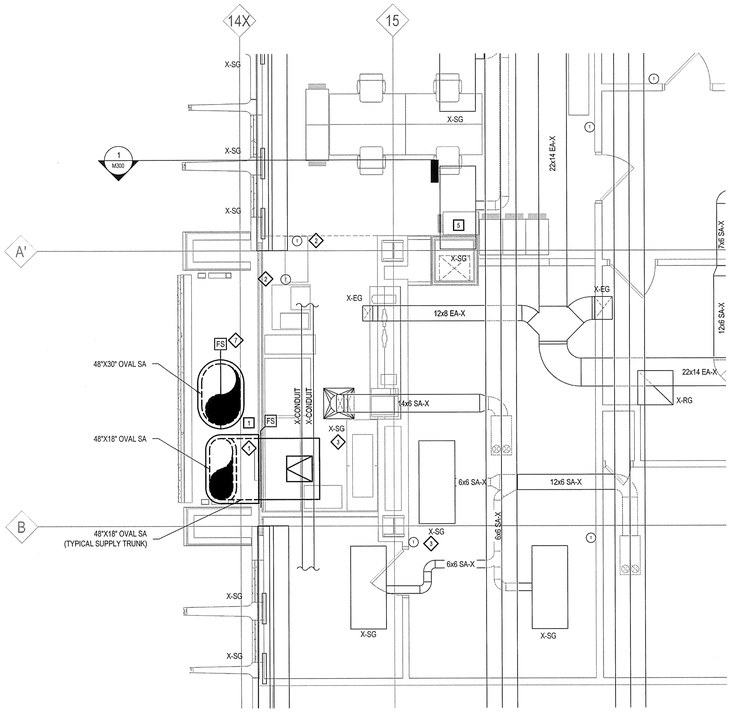
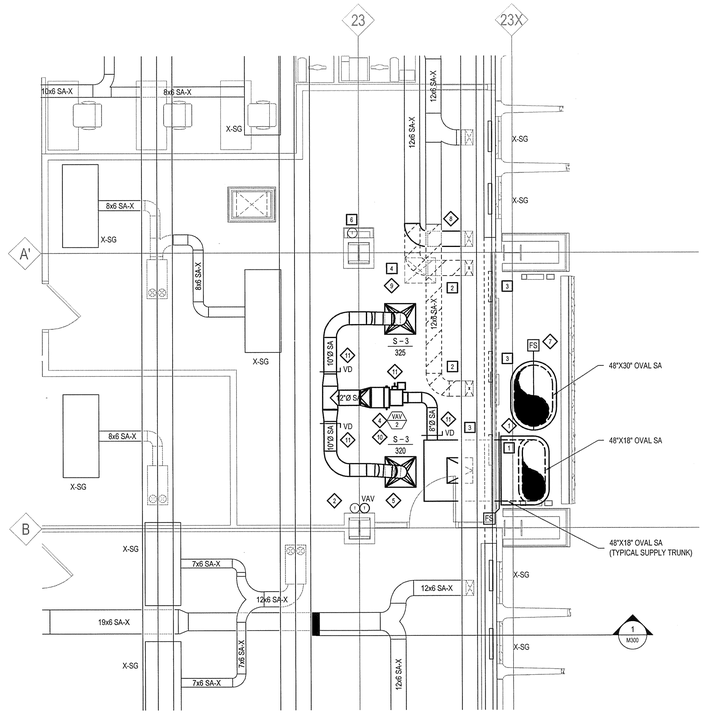


3 M103 THIRD FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



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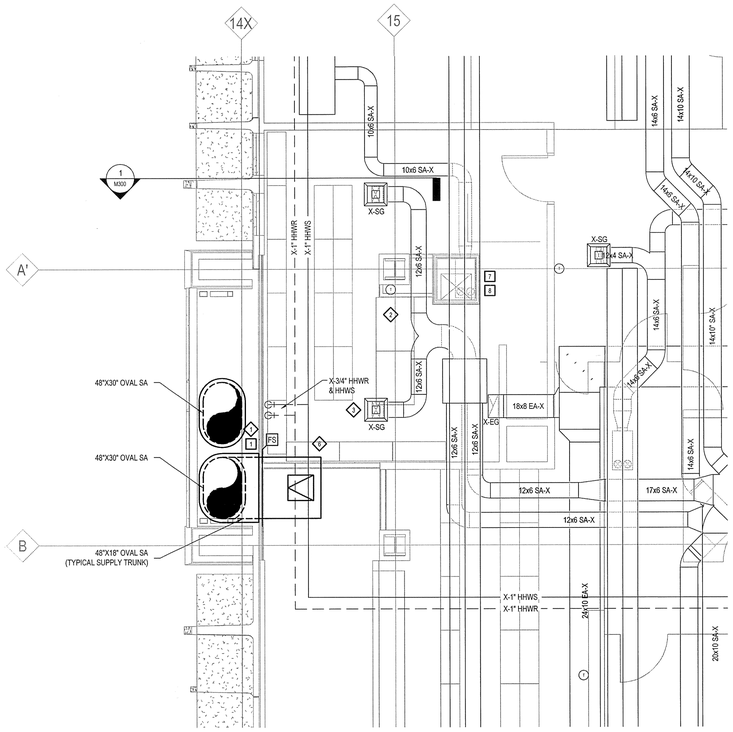
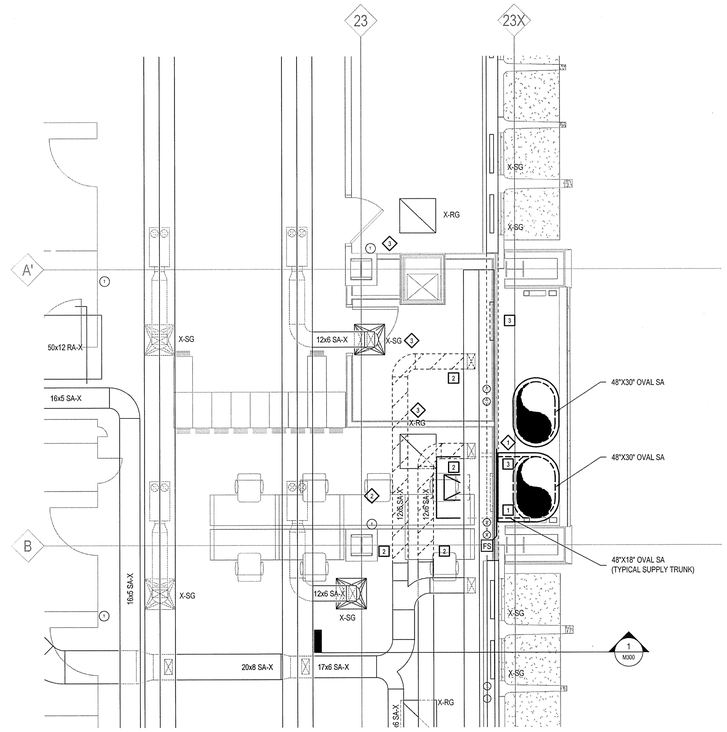


4 M103 FOURTH FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



2 M103 FOURTH FLOOR HVAC PLAN EAST
1/4" = 1' - 0"

KEY NOTES

1. PROVIDE NEW FIRE/SMOKE DAMPER WITH ACCESS PANEL AND DUCT CAP AT PENETRATION THRU WALL. SEAL PENETRATION WEATHER-TIGHT.
2. TEMPORARILY RELOCATE EXISTING THERMOSTAT DURING CONSTRUCTION. REFER TO ARCHITECTURAL PLANS FOR FINAL PLACEMENT.
3. TEMPORARILY RELOCATE EXISTING CEILING GRILLE DURING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL PLACEMENT. COORDINATE WITH LIGHT FIXTURES.
4. PROVIDE NEW VAV BOX WITH CONNECTION TO NEW SUPPLY AIR RISER AND FLOOR SUPPLY TAP. COORDINATE WITH EXISTING CONDITIONS.
5. PROVIDE NEW ELECTRONIC THERMOSTAT WITH CONNECTION TO NEW VAV BOX. TIE INTO EXISTING BUILDING AUTOMATION SYSTEM.
6. TEMPORARILY CAP OR RE-ROUTE EXISTING HHWS AND HHWR PIPING AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND EXISTING CONDITIONS.
7. PROVIDE A HORIZONTAL F/S DAMPER FOR 1ST & 2ND FLOOR RISER AT THE 3RD FLOOR LEVEL. REFER TO SECTION VIEW ON DWG M300 FOR REFRENCE.
8. PROVIDE NEW SUPPLY DUCT AND CONNECT TO EXISTING SUPPLY DUCT.
9. BOTTOM OF NEW PIPE SHAFT SHALL BE FULLY FIRESTOPPED.
10. REFER TO DWG MP300 FOR VAV BOX HHWS/HHWR PIPING.
11. TAG VAV BOX AND/OR DAMPER PER SPECIFICATIONS.

DEMOLITION NOTES

1. CONTRACTOR TO COORDINATE WALL PANEL REMOVAL WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
2. REMOVE EXISTING SECTION OF SUPPLY AIR DUCTWORK. CAP SUPPLY AIR FLOOR TROUGH AT FLOOR AND HOT AND COLD DUCTWORK AS INDICATED.
3. REMOVE EXISTING PERIMETER MIXING BOXES AND AIR CABINETS. CAP SUPPLY AIR TROUGH AT FLOOR.
4. REMOVE AND/OR RELOCATE EXISTING DUCTWORK TO ACCOMMODATE NEW PIPE SHAFT. FIELD VERIFY EXACT LOCATION.
5. RELOCATE EXISTING SUPPLY GRILLE AND ASSOCIATED DUCTWORK TO ACCOMMODATE FOR NEW PIPE SHAFT. FIELD VERIFY EXISTING CONDITIONS.
6. RELOCATE EXISTING THERMOSTAT TO ACCOMMODATE FOR FURRED OUT COLUMN.
7. RELOCATE EXISTING PERIMETER MIXING BOX TO ACCOMMODATE FOR NEW PIPE SHAFT. FIELD VERIFY EXISTING CONDITIONS.
8. REMOVE EXISTING SECTION OF DUCTWORK AND REROUTE TO ACCOMMODATE FOR NEW PIPE SHAFT. FIELD VERIFY EXISTING CONDITIONS.

eu:a

eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6580

IBC ENGINEERING SERVICES INC.
N8 W23195 JOHNSON DR. STE 180, WAUKESHA, WI 53186
262.549.1190 fx. 262.549.1820

PROJECT INFORMATION

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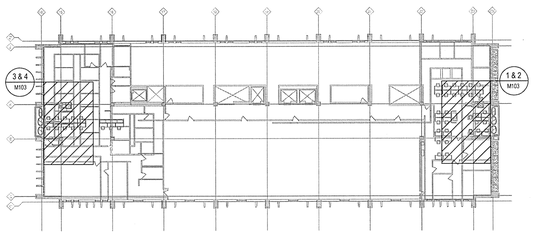

Key Plan
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SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Third & Fourth Floor HVAC Plans

M103

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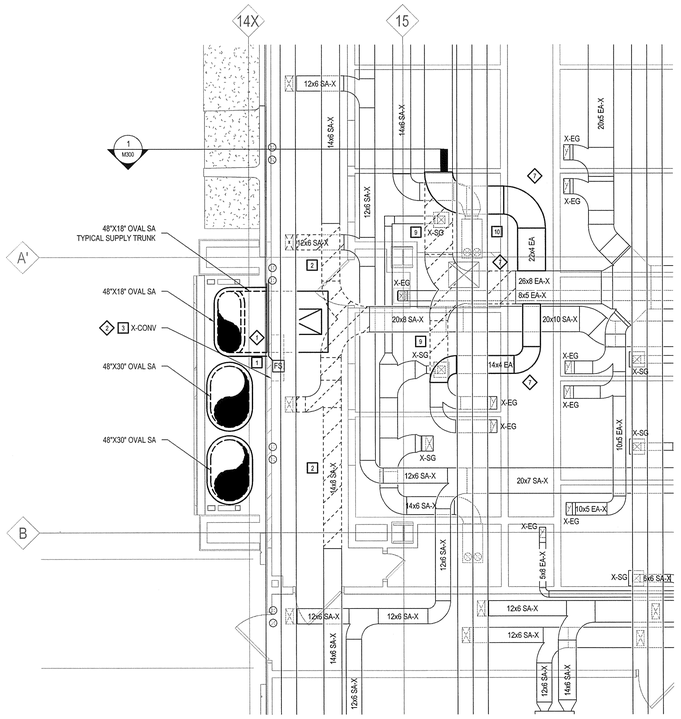
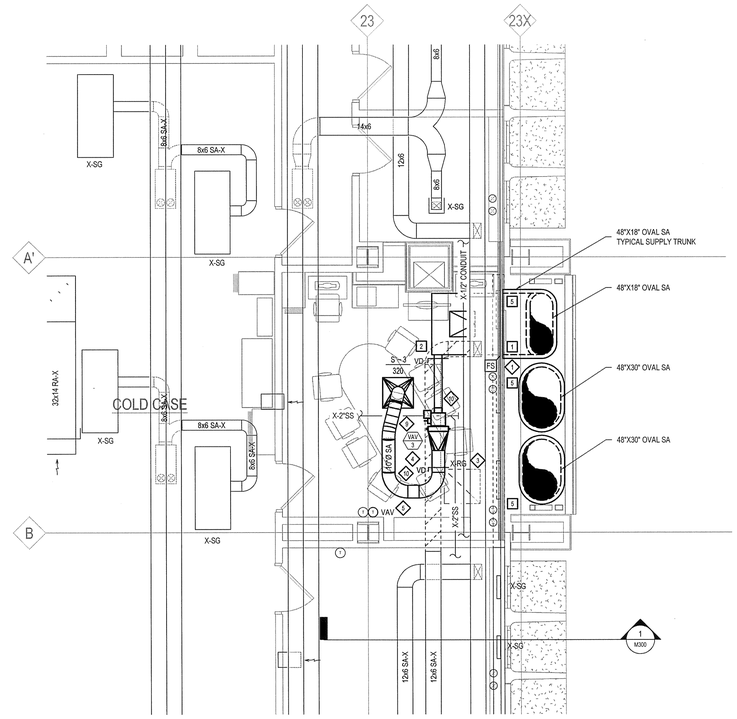
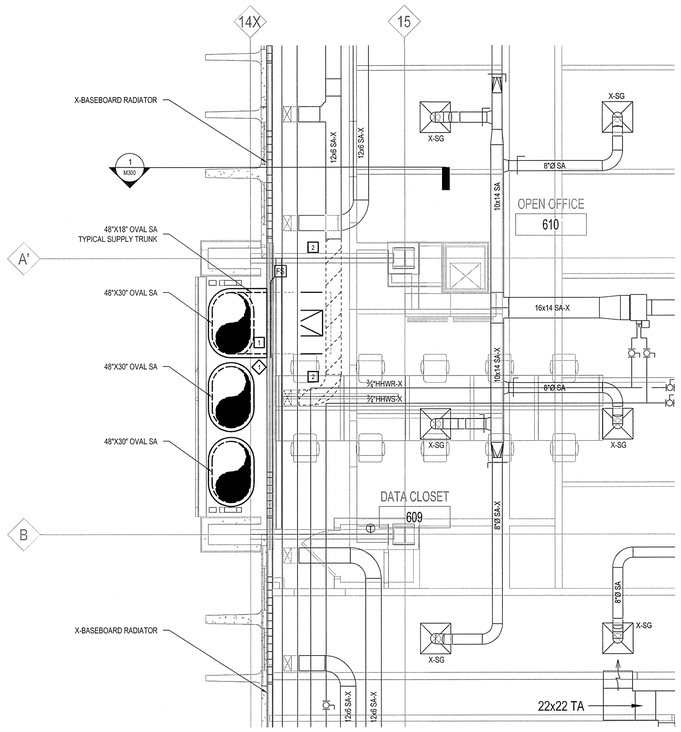


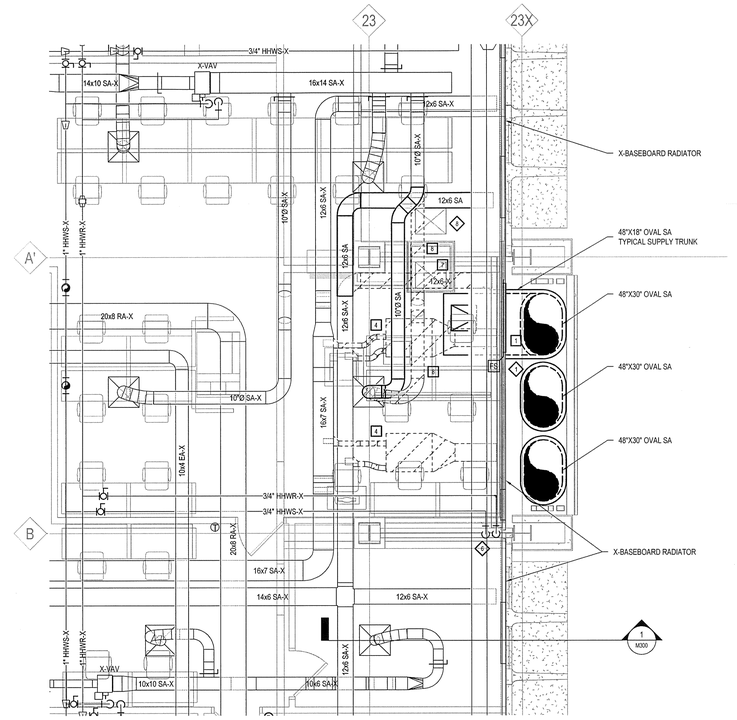
3 M105 FIFTH FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



1 M105 FIFTH FLOOR HVAC PLAN EAST
1/4" = 1' - 0"



4 M105 SIXTH FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



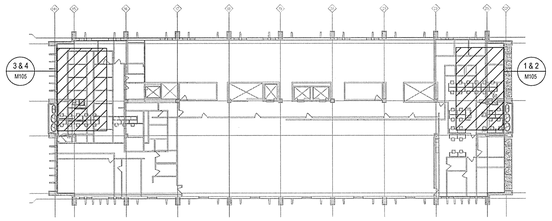
2 M105 SIXTH FLOOR HVAC PLAN EAST
1/4" = 1' - 0"

KEY NOTES

1. PROVIDE NEW FIRE/SMOKE DAMPER, ACCESS PANEL AND DUCT CAP AT PENETRATION THRU WALL. SEAL PENETRATION WEATHER-TIGHT.
2. FOLLOWING INSTALLATION OF NEW INTERNAL SHAFT WALL, RE-CONNECT EXISTING CONVECTOR.
3. TEMPORARILY RELOCATE EXISTING CEILING GRILLE DURING CONSTRUCTION. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL PLACEMENT. COORDINATE WITH LIGHT FIXTURES.
4. PROVIDE NEW VAV BOX WITH CONNECTION TO NEW SUPPLY AIR RISER AND FLOOR SUPPLY TAP. COORDINATE WITH EXISTING CONDITIONS.
5. PROVIDE NEW ELECTRONIC THERMOSTAT WITH CONNECTION TO NEW VAV BOX. TIE INTO EXISTING BUILDING AUTOMATION SYSTEM.
6. TEMPORARILY CAP OR RE-ROUTE EXISTING ¾" HHWS AND HHWR. VERIFY WITH GENERAL CONTRACTOR. COORDINATE WITH EXISTING CONDITIONS.
7. REROUTE EXHAUST AND COLD/HOT SUPPLY DUCTWORK IN EXISTING PLUMBING SHAFT. FIELD VERIFY EXISTING CONDITIONS.
8. BOTTOM OF NEW PIPE SHAFT SHALL BE FULLY FIRESTOPPED.
9. REFER TO DWG MP300 FOR VAV BOX HHWS/HHWR PIPING.
10. TAG VAV BOX AND/OR DAMPER PER SPECIFICATIONS.

DEMOLITION NOTES

1. CONTRACTOR TO COORDINATE WALL PANEL REMOVAL WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
2. REMOVE EXISTING SECTION OF SUPPLY AIR DUCTWORK. CAP SUPPLY AIR FLOOR TROUGH AT FLOOR.
3. CAP EXISTING PIPING AND REMOVE EXISTING CABINET UNIT HEATER (CUH) FOR RE-INSTALLATION.
4. REMOVE EXISTING MIXING BOX, ASSOCIATED DUCTWORK AND CONTROLS FOR EXISTING FLOOR TROUGH SUPPLY DUCTWORK.
5. REMOVE EXISTING PERIMETER MIXING BOXES AND AIR CABINETS. CAP SUPPLY AIR TROUGH AT FLOOR.
7. RELOCATE 12x6 SA-X BRANCH FOR EXISTING FLOOR TROUGH SUPPLY DUCTWORK TO ACCOMMODATE FOR NEW PIPE SHAFT.
8. RELOCATE 10"Ø SA-X BRANCH FOR X-SG TO ACCOMMODATE FOR NEW PIPE SHAFT.
9. REMOVE EXISTING EXHAUST DUCT AND REROUTE TO ACCOMMODATE FOR NEW PIPE SHAFT.
10. RELOCATE EXISTING MIXING BOX AND COLD/HOT SUPPLY DUCTWORK TO ACCOMMODATE FOR NEW PIPE SHAFT. FEILD VERIFY EXISTING CONDITIONS.



Key Plan
NOT TO SCALE

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 262.549.1190
WAUKESHA, WI 53186 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Fifth & Sixth Floor HVAC Plans

M105

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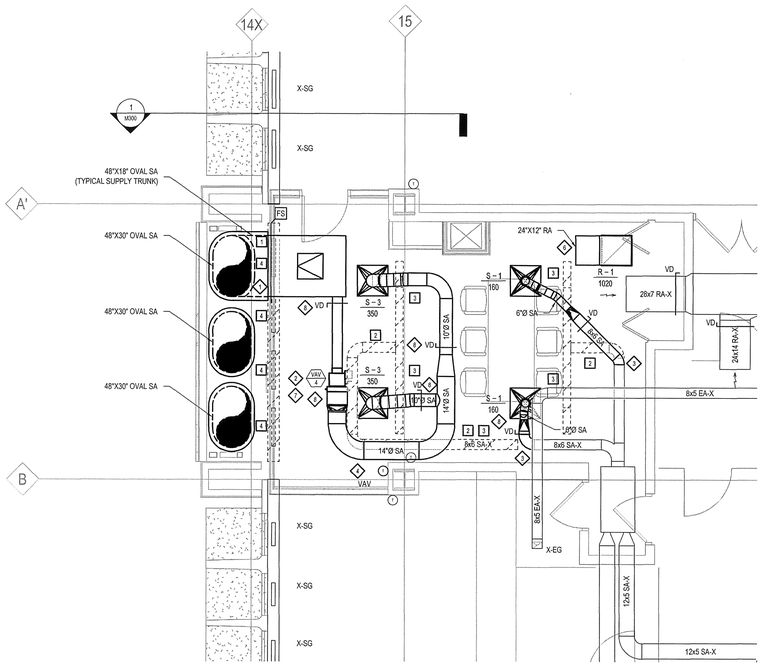
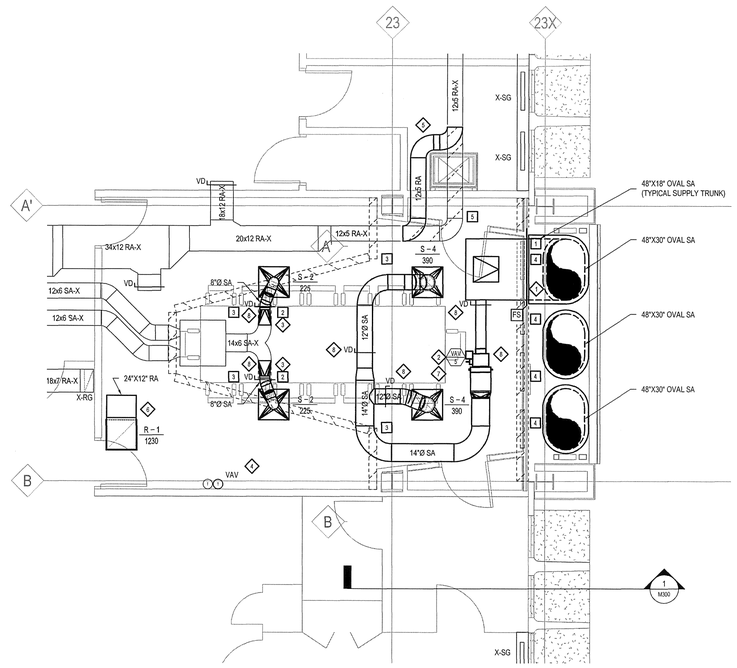


2 M107 SEVENTH FLOOR HVAC PLAN WEST
1/4" = 1' - 0"



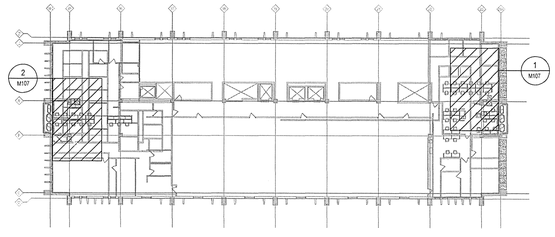
1 M107 SEVENTH FLOOR HVAC PLAN EAST
1/4" = 1' - 0"

KEY NOTES

1. PROVIDE NEW FIRE/SMOKE DAMPER, ACCESS PANEL AND DUCT CAP AT PENETRATION THRU WALL. SEAL PENETRATION WEATHER-TIGHT.
2. PROVIDE NEW VAV BOX WITH CONNECTION TO NEW SUPPLY AIR RISER AND FLOOR SUPPLY TAP. COORDINATE WITH EXISTING CONDITIONS.
3. PROVIDE NEW SUPPLY AIR DUCTWORK WITH CONNECTION TO EXISTING MIXING BOX AND SUPPLY DUCTWORK.
4. PROVIDE NEW ELECTRONIC THERMOSTAT WITH CONNECTION TO NEW VAV BOX. TIE INTO EXISTING BUILDING AUTOMATION SYSTEM.
5. REROUTE 12x5 RA DUCT TO ACCOMMODATE FOR NEW PIPE SHAFT.
6. PROVIDE DUCT LINER ON THE RETURN DUCT.
7. REFER TO DWG MP300 FOR VAV BOX HHWS/HHWR PIPING.
8. TAG VAV BOX AND/OR DAMPER PER SPECIFICATIONS.

DEMOLITION NOTES

1. COORDINATE WALL PANEL REMOVAL WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW SA DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
2. REMOVE EXISTING SECTION OF SUPPLY AIR DUCTWORK.
3. REMOVE EXISTING SUPPLY / RETURN AIR GRILLE.
4. REMOVE EXISTING PERIMETER MIXING BOXES AND AIR CABINETS. CAP SUPPLY AIR TROUGH AT FLOOR.
5. REMOVE EXISTING 12x5 RA-X DUCT TO ACCOMMODATE FOR NEW PIPE SHAFT. FIELD VERIFY EXISTING CONDITIONS.



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NOT TO SCALE

eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6580

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR. STE 180 WAUKESHA, WI 53186
262.549.1190 fx. 262.549.1620

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Seventh Floor HVAC Plans

M107

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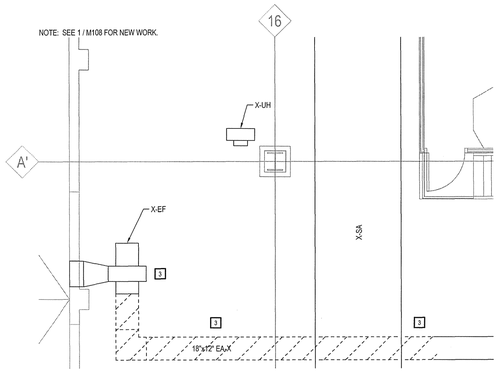
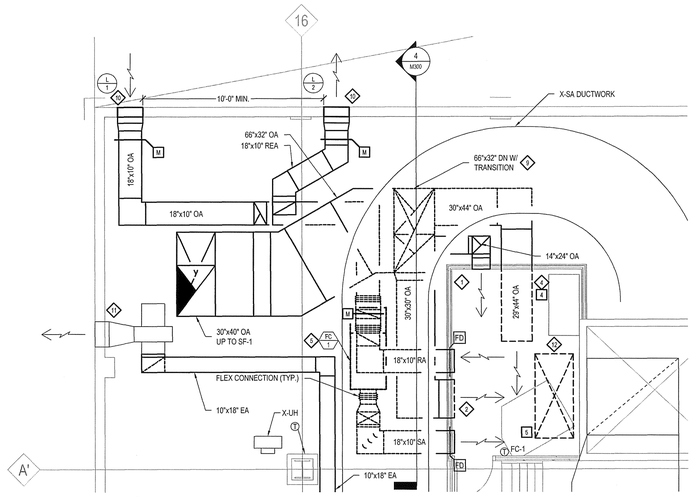


3 M108 ENLARGED EIGHTH FLOOR HVAC DEMOLITION PLAN
1/4" = 1' - 0"



2 M108 ENLARGED EIGHTH FLOOR HVAC PLAN
1/4" = 1' - 0"

GENERAL NOTE

ALL NEW TIE-INS TO EXISTING AHU, DUCTWORK AND PIPING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.

KEY NOTES

1. PROVIDE NEW 14"x24" OA PRESSURIZATION DUCTWORK TO SERVE NEW ELEVATOR MECHANICAL ROOM. COORDINATE DUCT ROUTING AND SUPPLY LOCATION WITH EXISTING CONDITIONS AND GENERAL CONTRACTOR.
2. PROVIDE NEW 30"x30" SA DUCTWORK WITH ROUTING TO EXISTING ELEVATOR ACCESS DOOR OPENING BELOW MEZZANINE. COORDINATE DUCT ROUTING WITH EXISTING CONDITIONS.
3. PROVIDE NEW BALANCING DAMPER AT DUCT SPLIT. PROVIDE ACCESS PANEL WHERE DUCTWORK IS ENCLOSED IN THE SOFFIT.
4. ROUTE NEW 29"x44" OA PRESSURIZATION DUCTWORK THROUGH EXISTING ELEVATOR SHAFT WALL IN BETWEEN X-CMU COLUMNS AND UNDER X-4"ST. FIELD VERIFY EXACT ROUTING. PROVIDE DUCT SUPPORTS ALONG FLOOR.
5. PROVIDE NEW FAN COIL UNIT WITH CHILLED WATER COIL AND ECONOMIZER MIXING BOX. UNIT TO BE MOUNTED ON RAILS AT 4" AFF. WITH VIBRATION ISOLATION. COORDINATE DUCT ROUTING FROM UNIT TO ELEVATOR MECHANICAL ROOM WITH EXISTING CONDITIONS (SUPPLY AND RETURN TO OFFSET UP TO MEET ELEVATOR MECHANICAL ROOM ELEVATION). UNIT TO INCLUDE NEW ELECTRONIC THERMOSTAT WITH TIE-IN TO EXISTING BUILDING AUTOMATION SYSTEM.
6. PROVIDE NEW SA PLENUM (138"L x 132"W x 68"H) WITH CONNECTION TO EXISTING AIR HANDLING UNIT. PROVIDE WITH 20"x54" ACCESS DOOR. REFER TO SPECIFICATION SECTION 23 31 19 HVAC CASINGS FOR DETAILS.
7. PROVIDE NEW 30"x96" SA DUCT TAP OFF OF NEW SA PLENUM.
8. NEW SA DUCTWORK TO BE RUN ABOVE EXISTING STRUCTURAL CROSS MEMBER. CONTRACTOR TO SITE VERIFY ROUTING HEIGHT.
9. PROVIDE NEW 66"x32" OA WITH TRANSITION TO 36"x32" OA SERVING 30"x44" OA HORIZONTAL RUN AND 32"X30" OA SERVING 30"x30" HORIZONTAL RUN.
10. PROVIDE NEW 20"x24" LOUVER. COORDINATE LOUVER COLOR WITH ARCHITECT FROM MANUFACTURER'S STANDARD COLOR PALATE. LOUVER SHALL BE ALUMINUM CONSTRUCTION 6" DEEP DRAINABLE BLADE WITH EXTENDED SILL AND INSECT SCREEN.
11. RE-INSTALL EXISTING 20"x24" LOUVER AND EXHAUST FAN. COORDINATE MOUNTING HEIGHT WITH EXTERIOR SOFFIT.
12. PROVIDE STRUCTURAL SAFETY GRATING OVER FLOOR OPENING.

DEMOLITION NOTES

1. EXISTING ABANDONED CHILLER TO BE REMOVED WITH ASSOCIATED PIPING AND PUMP(S) BACK TO MAIN.
2. CONTRACTOR TO COORDINATE WALL CUT WITH GENERAL CONTRACTOR FOR INSTALLATION OF NEW DUCTWORK. COORDINATE WITH EXISTING STRUCTURE.
3. EXISTING EXHAUST FAN TO BE REMOVED FOR RELOCATION. REMOVE ASSOCIATED PORTION OF DUCTWORK.
4. COORDINATE DUCT OPENING WITH GENERAL CONTRACTOR. COORDINATE WITH EXISTING ELEVATOR SHAFT WALLS AND EXISTING STORM WATER PIPING.
5. COORDINATE FLOOR CUT WITH GENERAL CONTRACTOR. CONTRACTOR TO EXAMINE EXISTING STRUCTURE PRIOR TO SAW CUTTING THE FLOOR.

FAN COIL (FC-1)

FAN COIL UNIT TO BE TIED INTO EXISTING BUILDING AUTOMATION SYSTEM WITH THE FOLLOWING CONTROL POINTS.

1. MIXED AIR TEMPERATURE.
2. RELIEF AIR DAMPER COMMAND AND FEEDBACK (PROOF OF OPERATION).
3. RELIEF AIR CONTROL POINT (OUTDOOR / RETURN DAMPER SIGNAL). RELIEF AIR DAMPER AND RETURN DAMPER TO MODULATE TO PROVIDE 55°F SUPPLY AIR TEMPERATURE (WINTER OPERATION).
4. RETURN AIR DAMPER COMMAND AND FEEDBACK (PROOF OF OPERATION).
5. ZONE TEMPERATURE WITH HIGH LIMIT ALARM.
6. UNIT FREEZE-STAT WITH ALARM.

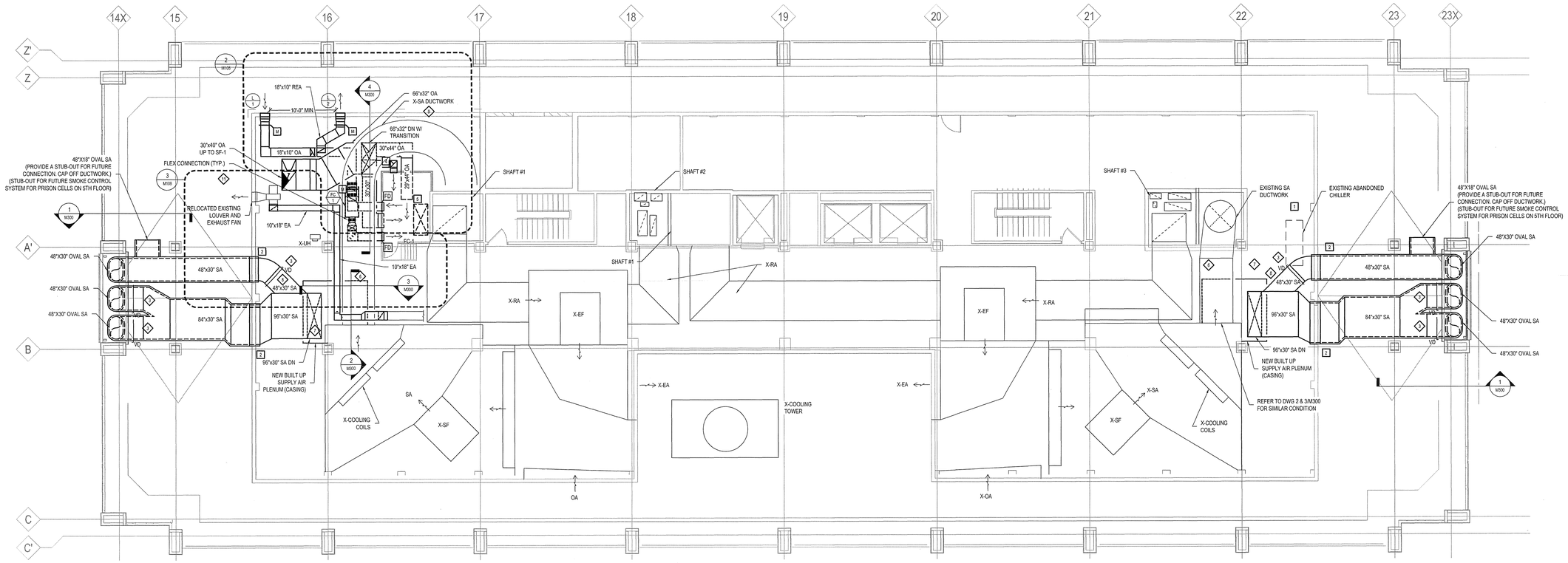
SEQUENCE OF OPERATIONS

COOLING SEASON (CHILLED WATER SYSTEM OPERATIONAL).

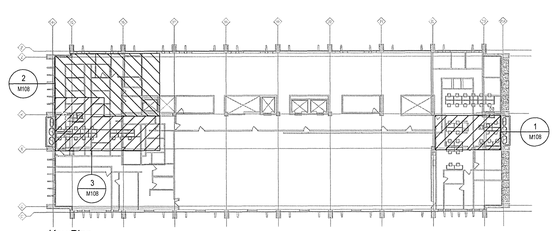
1. UPON DEMAND FOR COOLING, OPEN FLOW TO CHILLED WATER COIL AND INITIATE OPERATION OF FAN COIL SUPPLY FAN.
2. RETURN AIR DAMPER SHALL BE OPEN AND OUTDOOR AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED.
3. OPERATE FAN COIL TO MAINTAIN SET POINT (85°F ADJUSTABLE).
4. SHUT OFF FAN AND CLOSE OFF FLOW TO CHILLED WATER COIL WHEN ROOM TEMPERATURE IS SATISFIED.

HEATING SEASON (CHILLED WATER SYSTEM NOT IN OPERATION).

1. UPON DEMAND FOR COOLING INITIATE OPERATION OF AND FAN COIL SUPPLY FAN AND MODULATE RETURN, RELIEF AND OUTSIDE AIR DAMPERS TO MAINTAIN 55°F SUPPLY AIR TEMPERATURE. FLOW TO CHILLED WATER COIL TO BE CLOSED OFF.
2. OPERATE FAN COIL TO MAINTAIN SET POINT TEMPERATURE (85°F ADJUSTABLE).
3. SHUT OFF FAN AND CLOSE OUTDOOR AIR AND RELIEF AIR DAMPERS WHEN UNIT IS NOT IN OPERATION.



1 M108 EIGHTH FLOOR HVAC PLAN
1/8" = 1' - 0"



Key Plan
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eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 tel. 262.549.1190 fx. 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

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#	DATE	DESCRIPTION

KEY PLAN

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Eighth Floor HVAC Plans

M108

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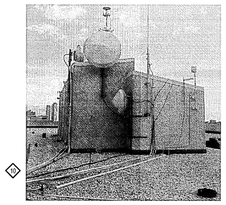


2 M109 EXISTING ANTENNA AND CABLING
NOT TO SCALE

KEY NOTES

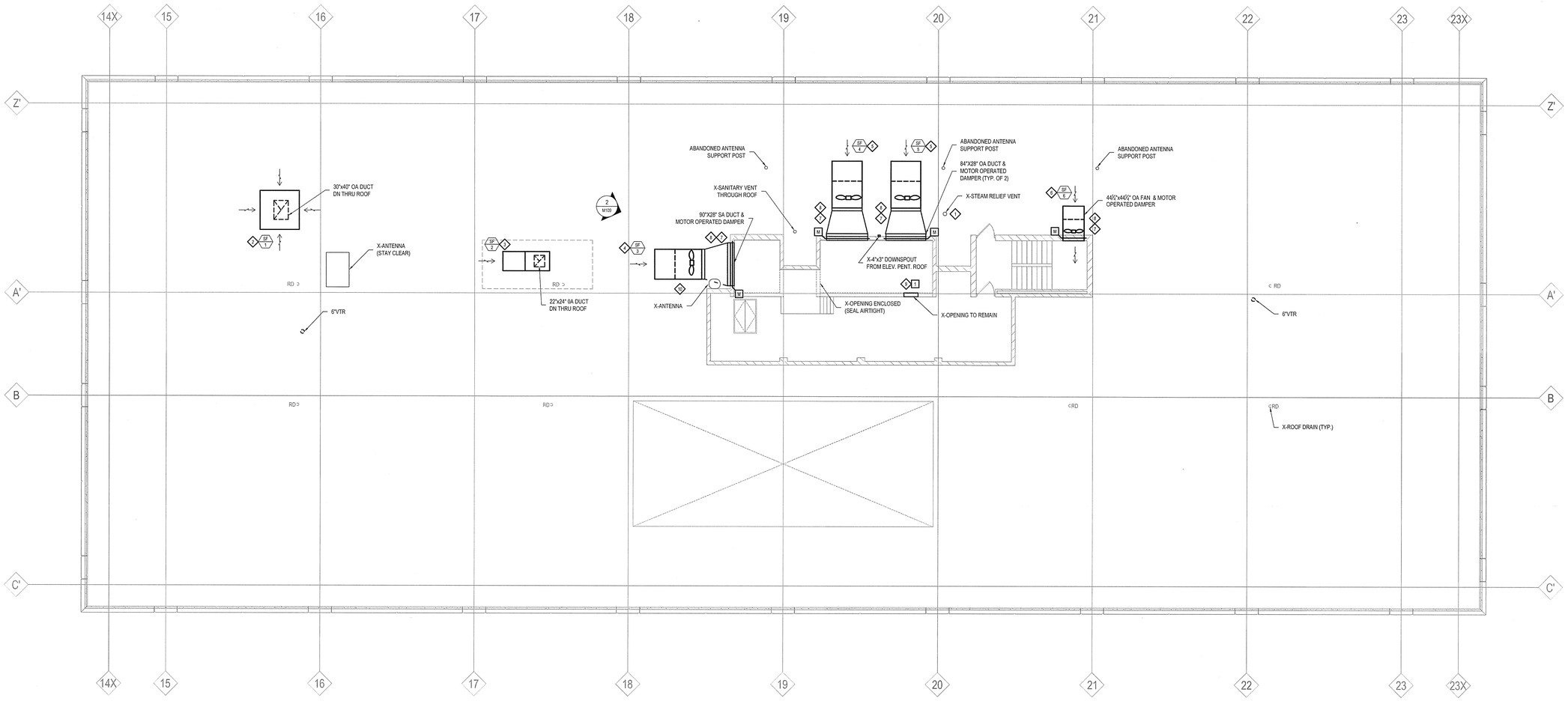
1. EXTEND EXISTING STEAM RELIEF VENT UP TO 8' ABOVE FINISHED ROOF. VERIFY OPERATION OF EXISTING RELIEF VALVE AND VENT PIPING.
2. PROVIDE NEW SECURITY ELEVATOR PRESSURIZATION FAN SERVING ELEVATOR SHAFT AND ELEVATOR EQUIPMENT ROOM. PROVIDE WITH ROOF CURB MOUNTED ON EXISTING STRUCTURE. UNIT TO BE DUCTED TO SECURITY ELEVATOR SHAFT AND MECHANICAL ROOM ON EIGHTH FLOOR (SEE M108 SHEET). PATCH ROOF TO MATCH EXISTING BUILT UP ROOFING AND PROVIDE WEATHER TIGHT SEAL.
3. PROVIDE NEW STAIRWELL PRESSURIZATION FAN SERVING EXISTING STAIRCASE #2. UNIT TO BE MOUNTED ON 18" HIGH ROOF CURB. PATCH ROOF TO MATCH EXISTING BUILT UP ROOFING AND PROVIDE WEATHER TIGHT SEAL.
4. PROVIDE NEW ELEVATOR PRESSURIZATION FAN SERVING THE FREIGHT ELEVATOR SHAFT. UNIT TO BE MOUNTED ON TWO EQUIPMENT RAILS (REFER TO STRUCTURAL PLANS FOR LOCATIONS). PATCH EXISTING BUILT UP ROOFING TO PROVIDE WEATHER-TIGHT SEAL. DUCTWORK TO BE SUPPORTED AT UNIT AND AT WALL.
5. PROVIDE (2) NEW ELEVATOR PRESSURIZATION FANS SERVING EXISTING PASSENGER ELEVATOR SHAFT AND PENTHOUSE ELEVATOR EQUIPMENT ROOM. UNITS TO BE MOUNTED ON TWO EQUIPMENT RAILS (REFER TO STRUCTURAL PLANS FOR LOCATIONS). PATCH EXISTING BUILT UP ROOFING TO PROVIDE WEATHER-TIGHT SEAL. DUCTWORK TO BE SUPPORTED AT UNIT AND AT WALL.
6. PROVIDE NEW STAIRWELL PRESSURIZATION FAN SERVING EXISTING STAIRCASE #1. UNIT TO BE WALL MOUNTED WITH WALL HOUSING SUPPORT BRACKET.
7. PROVIDE WEATHER-TIGHT SEAL AROUND DUCTWORK PENETRATION THROUGH WALL. DUCWORK/EQUIPMENT PENETRATION AT WALL TO BE ENCLOSED ON ALL FOUR SIDES WITH GALVANIZED STEEL ANGLE. CAULK ALL SEAMS TO PROVIDE WATER-TIGHT SEAL.
8. PROVIDE THERMALLY PROTECTED MOTOR OPERATED DAMPER. INTERLOCK WITH PRESSURIZATION FAN.
9. EXISTING 30"x30" WALL OPENING TO REMAIN. PROVIDE NEW 1/2" MESH SCREEN WITH SECURITY BARS TO ENCLOSE OPENING.
10. CONTRACTOR TO COORDINATE PRESSURIZATION FAN AND DUCT INSTALLATION WITH EXISTING ANTENNA AND CABLING. COORDINATE WITH OWNER TO RE-ROUTE EXISTING CABLING AS REQUIRED.

DEMOLITION NOTES

1. REMOVE EXISTING ACCESS DOOR LOCATED IN 30"x30" WALL OPENING. EXISTING OPENING TO REMAIN FOR NEW WORK.

GENERAL NOTE

NEW SUPPLY FANS, PRESSURIZATION CONTROLS AND ALL OTHER ITEMS ASSOCIATED SHALL BE SUBMITTED AS AN ALTERNATE BID DEDUCT ITEM.



1 M109 ROOF/PENTHOUSE HVAC PLAN
1/8" = 1' - 0"

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

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749 West State Street
Milwaukee, WI

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PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
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Roof / Penthouse HVAC Plans

M109

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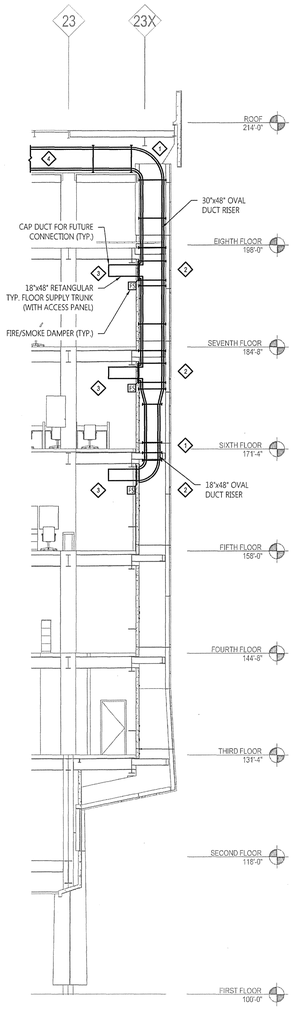
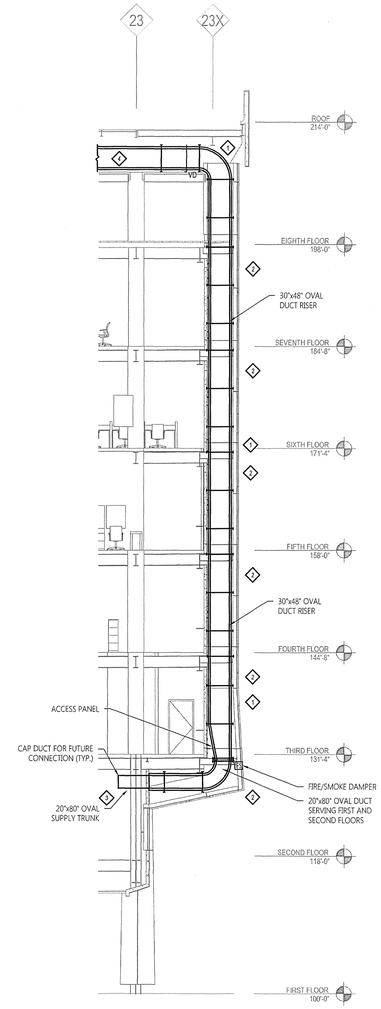
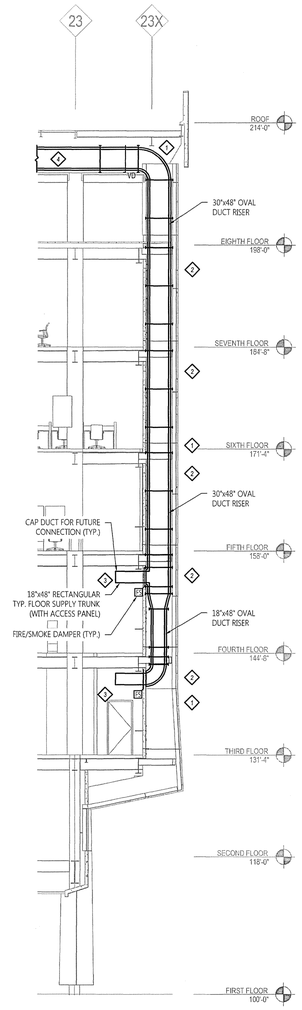
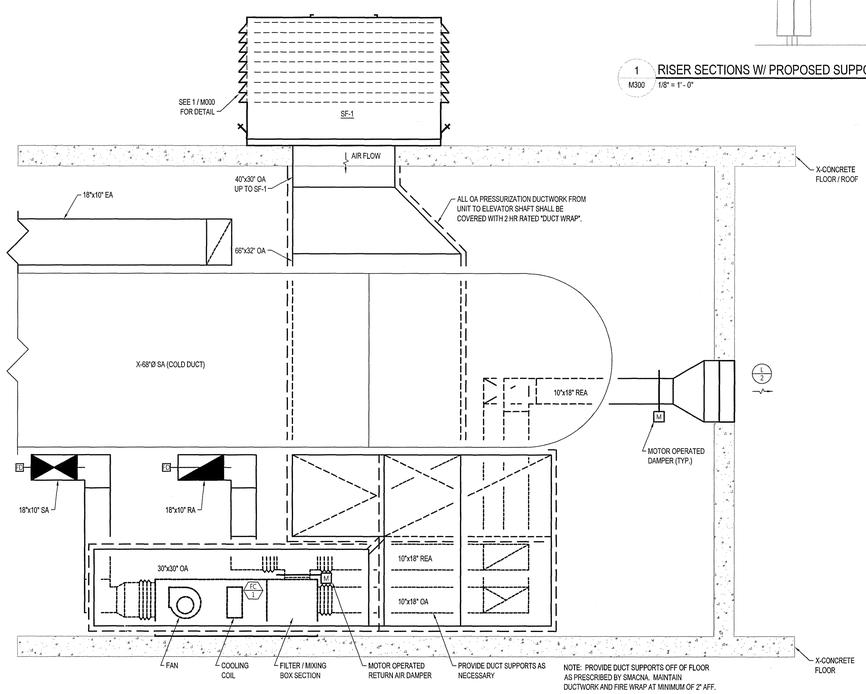


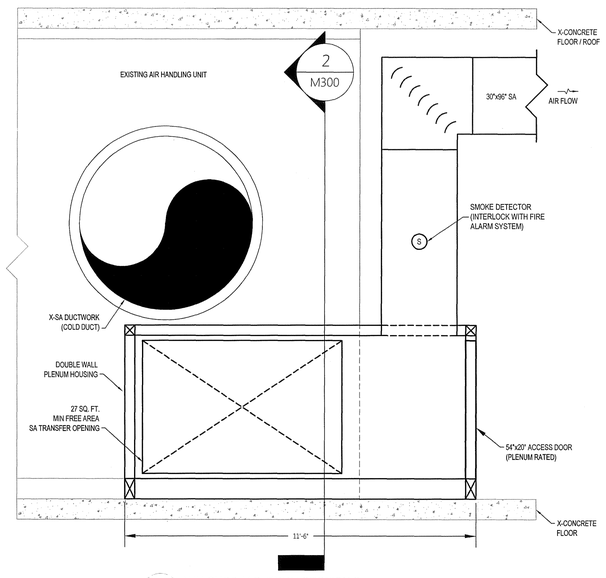




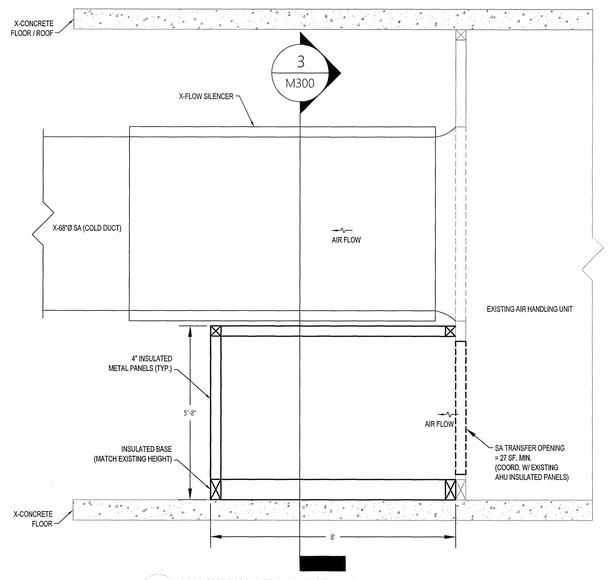
1 M300 RISER SECTIONS W/ PROPOSED SUPPORT LOCATIONS 1/8" = 1' - 0"



4 M300 FAN COIL UNIT SECTION 1/2"=1'-0"



3 M300 AHU SUPPLY PLENUM SECTION 2 1/2"=1'-0"



2 M300 AHU SUPPLY PLENUM SECTION 1 1/2"=1'-0"

KEY NOTES

1. COORDINATION DUCT INSTALLATION WITH EXISTING STRUCTURE AND SHAFT/DUCT SUPPORT LOCATIONS.
2. DOUBLE WALL DUCTWORK SHALL BE SUPPORTED AT FLOOR LEVEL UTILIZING DUCT FLANGE CONNECTION JOINTS. COORDINATE SUPPORT LOCATIONS WITH STRUCTURAL PLANS.
3. PROVIDE COMBINATION FIRE/SMOKE DAMPER, ACCESS PANEL AND AND DUCT CAP AT FLOOR PENETRATION.
4. DUCTWORK TO BE ROUTED IN SOFFIT FROM MECHANICAL ROOM DUCT PLENUM TO RISER LOCATION.

DUCT NOTES

1. DUCT SUPPORT LOCATIONS BASED ON MCGILL AIRFLOW (PREFABRICATED DOUBLE WALL DUCTWORK). CONTRACTOR TO VERIFY APPROVED EQUAL MANUFACTURERS REQUIREMENTS. REFER TO SPECIFICATION 23 31 13 METAL DUCTS FOR DETAILS.

eppstein uhen : architects

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

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N8 W22195 JOHNSON DR, STE 180, WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

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Mechanical Sections

M300

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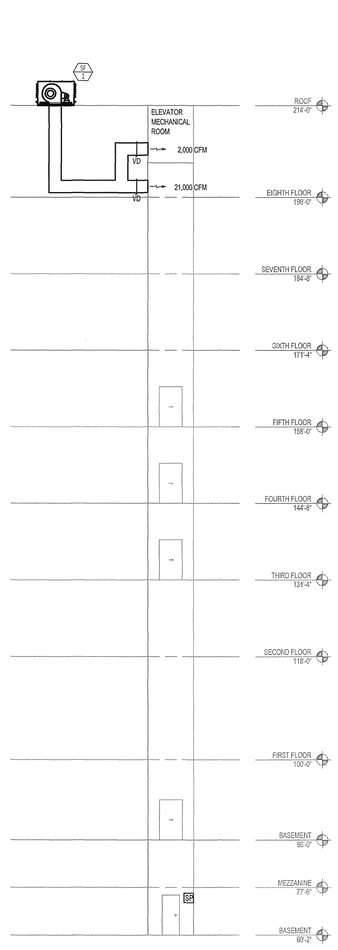
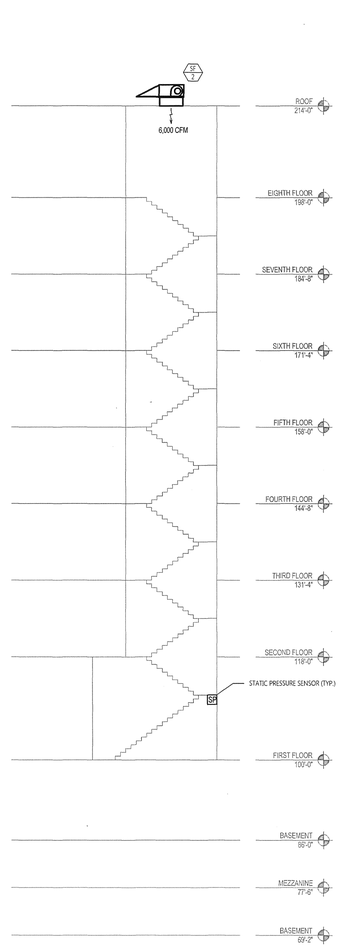
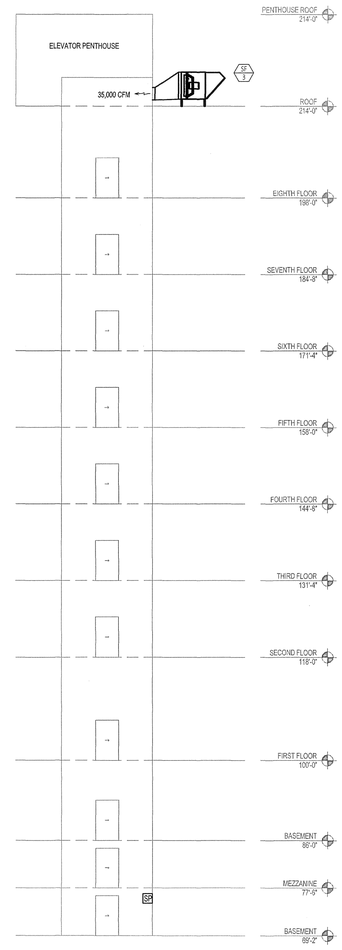


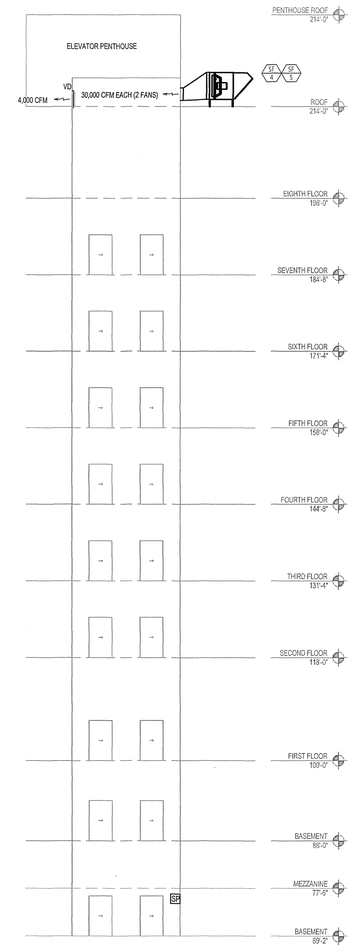
5 M400 SECURITY ELEVATOR PRESSURIZATION SCHEMATIC
3/32" = 1'- 0"



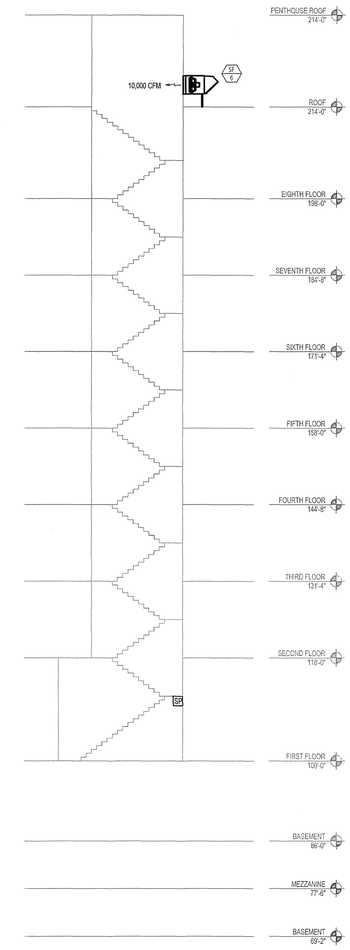
4 M400 STAIR 2 ELEVATOR PRESSURIZATION SCHEMATIC
3/32" = 1'- 0"



3 M400 SERVICE ELEVATOR PRESSURIZATION SCHEMATIC
3/32" = 1'- 0"



2 M400 PASSENGER ELEVATOR PRESSURIZATION SCHEMATIC
3/32" = 1'- 0"



1 M400 STAIR 1 PRESSURIZATION SCHEMATIC
3/32" = 1'- 0"

FAN PRESSURIZATION/SMOKE CONTROL PANEL NOTES AND REFERENCE CODES

FIREFIGHTER'S SMOKE CONTROL STATION (FSCS) SHALL PROVIDE THE COMPLETE STATUS OF THE SMOKE CONTROL SYSTEM IN AN EASY TO UNDERSTANDABLE MANNER. A BUILDING DIAGRAM THAT CLEARLY INDICATES THE TYPE AND LOCATION OF ALL SMOKE CONTROL EQUIPMENT, FANS, DAMPERS ETC AS WELL AS AREAS SERVED BY THE EQUIPMENT SHALL BE PART OF THE FSCS PANEL. PANEL SHALL PROVIDE CONTROL OF INDIVIDUAL FANS AND DAMPERS. STATUS OF FANS AND DAMPERS SHALL BE PROVIDED. A MEANS OF POSITIVE FEEDBACK OR (PROOF) OF OPERATION FOR ALL FANS OF 2000 CFM OR GREATER AND FOR DAMPER POSITION. FAULT STATUS AND ALARM SHOULD BE ACTIVATED IF FAN AND DAMPER MAXIMUM RESPONSE TIME IS EXCEEDED. RESPONSE TIME FOR FANS IS 60 SECONDS, 75 SECONDS FOR DAMPERS. ZONE CONTROLS MAY BE USED DEPENDING ON THE COMPLEXITY OF THE SYSTEM. PANEL IS TO BE MOUNTED IN A INDOORS, DRY ENVIRONMENT.

UL 864 REQUIRED PANEL DEVICES INCLUDE:
PANEL POWER ON LED, SECTION 47.2
PANEL ENABLE KEY SWITCH OR SECURITY DOOR, SECTION 48.2
CONTROL SWITCHES FOR FANS AND DAMPERS, SECTION 48.3,
REQUIREMENT FOR GRAPHIC REPRESENTATION OF SMOKE CONTROL SYSTEM, SECTION 48.4
CURRENT STATUS FOR EACH FAN = ON, OFF SECTION 48.5
CURRENT STATUS FOR EACH DAMPER = OPEN, CLOSED. SECTION 48.5
PUSHBUTTON FOR LAMP TEST, SECTION 48.6
FAULT LEDS FOR FAILURE OF EACH FAN OR DAMPER, SECTION 49.6
AUDIBLE ALARM FOR FAULT CONDITION, SECTION 49.6
KEY SWITCH OF ALARM SILENCE. SECTION 52.5

THE INTERNATIONAL BUILDING CODE CHAPTER 9
* CHECK WITH THE LOCAL AND STATE CODES TO VERIFY IF ALL REQUIREMENTS OF THE INTERNATIONAL CODE APPLY TO PROJECT.

909.16 FIRE-FIGHTER'S SMOKE CONTROL PANEL (FAN PRESSURIZATION SYSTEM)
A FIRE-FIGHTER'S SMOKE CONTROL PANEL FOR FIRE DEPARTMENT EMERGENCY RESPONSE PURPOSES ONLY SHALL BE PROVIDED AND SHALL INCLUDE MANUAL CONTROL OR OVERRIDE OF AUTOMATIC CONTROL FOR MECHANICAL SMOKE CONTROL SYSTEMS. THE PANEL SHALL BE LOCATED IN A FIRE COMMAND CENTER COMPLYING WITH SECTION 911, AND SHALL COMPLY WITH SECTIONS 909.16.1 THROUGH 909.16.3.

909.16.1 SMOKE CONTROL SYSTEMS
FANS FOR THE BUILDING SHALL BE SHOWN ON THE FIRE FIGHTER'S CONTROL PANEL. A CLEAR INDICATION OF THE DIRECTION OF AIRFLOW AND THE RELATIONSHIP OF COMPONENTS SHALL BE DISPLAYED. STATUS INDICATORS SHALL BE PROVIDED FOR ALL SMOKE CONTROL EQUIPMENT, ANNUNCIATED BY FAN AND ZONE, AND BY PILOT-LAMP-TYPE INDICATORS AS FOLLOWS:

1. FANS, DAMPERS AND OTHER OPERATING EQUIPMENT IN THEIR NORMAL STATUS--WHITE.
2. FANS, DAMPERS AND OTHER OPERATING EQUIPMENT IN THEIR OFF OR CLOSED STATUS--RED.
3. FANS, DAMPERS AND OTHER OPERATING EQUIPMENT IN THEIR ON OR OPEN STATUS--GREEN.
4. FANS, DAMPERS AND OTHER OPERATING EQUIPMENT IN A FAULT STATUS--YELLOW/AMBER.

909.16.2 SMOKE CONTROL PANEL
THE FIRE-FIGHTER'S CONTROL PANEL SHALL PROVIDE CONTROL CAPABILITY OVER THE COMPLETE SMOKE-CONTROL SYSTEM EQUIPMENT WITHIN THE BUILDING AS FOLLOWS:
1. ON-AUTO-OFF CONTROL OVER EACH INDIVIDUAL PIECE OF OPERATING SMOKE CONTROL EQUIPMENT THAT CAN ALSO BE CONTROLLED FROM OTHER SOURCES WITHIN THE BUILDING. THIS INCLUDES STAIRWAY PRESSURIZATION FANS; SMOKE EXHAUST FANS; SUPPLY, RETURN AND EXHAUST FANS; ELEVATOR SHAFT FANS; AND OTHER OPERATING EQUIPMENT USED OR INTENDED FOR SMOKE CONTROL PURPOSES.

2. OPEN-AUTO-CLOSE CONTROL OVER INDIVIDUAL DAMPERS RELATING TO SMOKE CONTROL AND THAT ARE ALSO CONTROLLED FROM OTHER SOURCES WITHIN THE BUILDING.

3. ON-OFF OR OPEN-CLOSE CONTROL OVER SMOKE CONTROL AND OTHER CRITICAL EQUIPMENT ASSOCIATED WITH A FIRE OR SMOKE EMERGENCY AND THAT CAN ONLY BE CONTROLLED FROM THE FIRE-FIGHTER'S CONTROL PANEL.

EXCEPTIONS: 1. COMPLEX SYSTEMS, WHERE APPROVED, WHERE THE CONTROLS AND INDICATORS ARE COMBINED TO CONTROL AND INDICATE ALL ELEMENTS OF A SINGLE SMOKE ZONE AS A UNIT.

FAN PRESSURIZATION/SMOKE CONTROL PANEL SPECIFICATIONS

FIREFIGHTER'S SMOKE CONTROL STATION (FSCS)

1.0 GENERAL
THIS SPECIFICATION DEFINES THE BASIC CONSTRUCTION AND COMPONENTS FOR A **FIREFIGHTER'S SMOKE CONTROL PANEL** (FAN PRESSURIZATION SYSTEM). FIREFIGHTER'S SMOKE CONTROL PANEL SHALL BE USED IN CONJUNCTION WITH A UL864-UUKL LISTED ENGINEERED SMOKE CONTROL SYSTEM. PANEL SHOULD BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) AND MEET ALL LOCAL AND/OR STATE BUILDING CODES. THE CONTROL PANEL SHALL HAVE A GRAPHIC DISPLAY SHOWING THE EQUIPMENT CONTROLLED AND AREAS SERVED WITH CONTROL SWITCHES AND LED INDICATORS FOR STATUS. THE CONTROL PANEL SHALL BE MOUNTED ON A FLUSH OR SURFACE MOUNTED ENCLOSURE.

2.0 CONSTRUCTION
THE CONTROL PANEL SHALL BE CONSTRUCTED WITH A .125 -INCH ALUMINUM SUBSTRATE AND A GRAPHIC FILM OVERLAY. THE OVERLAY SHALL BE PROTECTED BY A NON-GLARE TEXTURED COATING, WHICH IS NON-YELLOWING, DURABLE, AND SCRATCH RESISTANT. LEDS, RESISTORS, DIODES, ETC. SHALL BE MOUNTED ON PRINTED CIRCUIT BOARDS (PCBS). ALL WIRING TO THE PCBS SHALL BE MADE ON SOLDER TYPE TERMINAL TURRETS. ALL SWITCHES SHALL BE SECURELY MOUNTED TO THE PANEL.

3.0 GRAPHIC - NOT USED

3.1 GRAPHIC COLORS
THE FILM OVERLAY SHALL BE A GRAPHIC AS SHOWN IN THE ARCHITECT'S PLAN WITH BLACK LINES AND LEGENDS, AND COLORED BACKGROUND AREAS. THE GRAPHIC SHALL BE MADE OF A POLYMERIC MATERIAL HAVING ALL ACCENT COLORS APPLIED TO THE FILM. IMPORTANT AREAS SUCH AS ELEVATOR SHAFTS, STAIRWELLS, AND MAIN AIR DUCTS SHALL BE HIGHLIGHTED WITH COLORS FOR EASY IDENTIFICATION. THE PANEL SUPPLIER SHALL FURNISH A COLOR CHART WITH A MINIMUM OF 22 ACCENT COLORS FOR ARCHITECT SELECTION.

3.2 GRAPHIC SURFACE
THE WORKING SURFACE (POLYESTER FILM) SHALL BE BONDED TO THE ALUMINUM SUBSTRATE WITH AN ADHESIVE THAT HAS BEEN PROVEN NOT TO DELAMINATE IN SIMILAR APPLICATIONS. THE ADHESIVE SHALL ACHIEVE 100% BONDING WITHOUT ANY CREASES, BUMPS, OR BLEMISHES IN THE WORKING SURFACE (FACE) OF THE GRAPHIC. THE WORKING SURFACE OF THE GRAPHIC SHALL BE TEXTURED AND NON-GLARE. TRANSLUCENT AREAS SHALL BE MADE IN THE OVERLAY FOR BACKLIGHTED INDICATORS. BACKLIT AREAS SHALL BE SUBDUED UNTIL THE LED IS ILLUMINATED. THE ILLUMINATION OF ANY INDICATOR SHALL BE CLEARLY VISIBLE FROM ANY VIEWING ANGLE IN FRONT OF THE WORKING SURFACE OF THE GRAPHIC.

4.0 SUBSTRATE
THE ALUMINUM SUBSTRATE SHALL HAVE HOLES FOR LEDS AND SWITCHES. THE SUBSTRATE SHALL HAVE HOLES DRILLED AND TAPPED FOR MOUNTING THE PRINTED CIRCUIT BOARDS. THE ALUMINUM SUBSTRATE SHALL HAVE A CLEAR IRRIDITED FINISH TO PREVENT OXIDATION.

5.0 INDICATORS
THE INDICATORS SHALL BE HIGH INTENSITY LEDS, 5MM IN SIZE, AND RATED FOR NORMAL OPERATION AT A CURRENT OF 20MA. THE LEDS SHALL HAVE AN OPERATING LIFE OF A MINIMUM OF 170,000 HOURS OF CONTINUOUS OR PULSED OPERATION. THE LED LENS BODY SHALL BE CONSTRUCTED OF HIGH IMPACT PLASTIC. ALL LEDS SHALL BE MOUNTED ON .062" PRINTED CIRCUIT BOARDS CONSTRUCTED OF EPOXY GLASS MATERIAL, NEMA TYPE FR-4, GRADE 10. RESISTORS AND DIODES FOR CURRENT LIMITING AND LED TEST SHALL ALSO BE MOUNTED ON THE PRINTED CIRCUIT BOARDS. SOLDER TYPE, PRESSED IN TURRETS SHALL BE PROVIDED FOR ELECTRICAL CONNECTIONS TO THE LEDS. ALL FIELD WIRING SHALL TERMINATE ON MODULAR SCREW CLAMP TYPE TERMINALS OR UL864-UUKL LISTED ELECTRONICS MOUNTED IN THE ENCLOSURE.

6.0 SWITCHES
ROTARY OR TOGGLE SWITCHES SHALL BE USED FOR PANEL CONTROL OPERATIONS UNLESS OTHER SWITCH TYPES ARE SPECIFIED. A KEY OPERATED SWITCH SHALL BE USED FOR PANEL ENABLE AND ALARM SILENCE OPERATIONS. SWITCHES SHALL BE RATED FOR THE LOAD SERVED. A MOMENTARY PUSHBUTTON SHALL BE PROVIDED FOR SIMULTANEOUS TESTING OF ALL LEDS. ALL FIELD WIRING SHALL TERMINATE ON MODULAR SCREW CLAMP TYPE TERMINALS OR UL864-UUKL LISTED ELECTRONICS MOUNTED IN THE ENCLOSURE.

7.0 ENCLOSURE
THE ENCLOSURE SHALL BE MADE FROM COLD ROLLED STEEL AND BE ASSEMBLED USING ALL WELDED AND FORMED STEEL CONSTRUCTION. THE ENCLOSURE SHALL BE PRIMED AND PAINTED WITH A BAKED ENAMEL OR POWER COAT TEXTURED FINISH. A SECURITY DOOR WITH VIEWING WINDOW AND KEY LOCK MAY BE SUPPLIED TO PREVENT UNAUTHORIZED OPERATION OF THE CONTROL PANEL SWITCHES. ALL ENCLOSURES SHALL BE CONSTRUCTED ACCORDING TO UL864 ENCLOSURE GUIDELINES.

PRESSURIZATION CONTROLS

1. ACTIVATION OF ONE BUILDING SMOKE DETECTOR SHALL ACTIVATE ALARM TO NOTIFY THAT SMOKE HAS BEEN SENSED OR THAT THERE IS A POTENTIAL DETECTOR MALFUNCTION.
2. ACTIVATION OF TWO BUILDING SMOKE DETECTORS SHALL SIGNAL EMERGENCY MODE AT FIRE ALARM SYSTEM TO OPEN PRESSURIZATION FAN CONTROL DAMPERS.
3. AFTER CONTROL DAMPERS HAVE BEEN OPENED THE PRESSURIZATION FANS SHALL BE ENERGIZED TO ACHIEVE PRESSURIZATION OF STAIRWELL/ELEVATOR SHAFT.
4. PRESSURIZATION FAN(S) SHALL NOT OPERATE IF CONTROL DAMPER FAILS TO OPEN (NORMALLY CLOSED DAMPERS).
5. UPON FAILURE OF PRESSURIZATION FAN CONTROL PANEL STATIC PRESSURE CONTROLS OR ANY OF THE SENSORS, FANS SHALL RUN AT MAXIMUM RPM.
6. ONE STATIC PRESSURE SENSOR (BOTTOM OF SHAFT), WITH CONNECTION TO PRESSURIZATION FAN CONTROL PANEL IN FIRE COMMAND CENTER ROOM. SHALL MODULATE THE RESPECTIVE FAN MOTOR'S VARIABLE SPEED DRIVE TO MAINTAIN DESIGN POSITIVE PRESSURE READINGS AS REQUIRED BY NFPA (CONTROL PANEL TO BE TIED INTO FIRE ALARM SYSTEM AND SERVED WITH EMERGENCY POWER).

FAN CONTROL POINTS

1. OUTSIDE AIR DAMPER COMMAND AND FEEDBACK (PROOF OF OPERATION FROM EACH DAMPER LOCATED AT PRESSURIZATION FAN CONTROL PANEL). ALARM TO OCCUR AT FAILURE TO OPERATE.
2. PRESSURIZATION SUPPLY FAN COMMAND AND FEEDBACK (PROOF OF OPERATION FROM PRESSURIZATION FAN LOCATED AT PRESSURIZATION FAN CONTROL PANEL). ALARM TO OCCUR AT FAILURE TO OPERATE.
3. SHAFT STATIC PRESSURE SENSOR. ALARM TO OCCUR WHEN PRESSURIZATION FANS FAIL TO MEET SHAFT DESIGN STATIC PRESSURE.

GENERAL NOTE

1. NEW SUPPLY FANS, PRESSURIZATION CONTROLS AND ALL OTHER ITEMS ASSOCIATED SHALL BE SUBMITTED AS AN ALTERNATE BID DEDUCT ITEM.
2. FIRE ALARM SYSTEM MAKE/MODEL AND BASIS OF DESIGN BASED ON AUTOMATION DISPLAYS, INC. (ADI). ANY ALTERNATE SUBMITTED SHALL MEET OR EXCEED ALL PERFORMANCE CAPACITIES OF THE ADI SYSTEM.
3. EXISTING FIRE ALARM SYSTEM: SIMPLEX 4100U WITH VOICE.

SYSTEM NOTES

1. THE ELEVATOR AND STAIRWELL PRESSURIZATION SYSTEM SHALL HAVE A MINIMUM OF ONE FAN PER SHAFT BEING SERVED.
2. EACH FAN SHALL BE PROVIDED WITH A MOTOR OPERATED CONTROL DAMPER DOWNSTREAM OF THE FAN. ACTIVATION OF THE FIRE ALARM SYSTEM SHALL SEND COMMUNICATION TO THE PRESSURIZATION FAN/SMOKE CONTROL PANEL TO ENABLE ON/OFF CONTROL OF THE FAN AND OPEN/CLOSE CONTROL OF THE DAMPER.
3. CONTROL DAMPERS SHALL BE PROVIDED WITH END SWITCHES TO SIGNAL POSITION OF DAMPERS AT THE PRESSURIZATION FAN/SMOKE CONTROL PANEL.
   a. DAMPER STATUS LIGHTS AT PRESSURIZATION FAN/SMOKE CONTROL PANEL. NORMAL/OPEN/CLOSED/FAULT STATUS (WHITE/GREEN/RED/AMBER).
4. PRESSURIZATION FANS SHALL BE PROVIDED WITH CURRENT SWITCHES (3 PER FAN) TO COMMUNICATE STATUS OF FAN AT THE PRESSURIZATION FAN/SMOKE CONTROL PANEL.
   a. FAN STATUS LIGHTS AT THE PRESSURIZATION FAN CONTROL PANEL. NORMAL/ON/OFF/FAULT STATUS (WHITE/GREEN/RED/AMBER).
5. EACH PRESSURIZATION FAN SHALL BE CONTROLLED SEPARATELY THROUGH THE PRESSURIZATION FAN/SMOKE CONTROL PANEL.
   a. A LOCAL ON/OFF SWITCH SHALL BE PROVIDED ON THE FIREMAN'S CONTROL PANEL.
   b. THE FIREMAN'S MANUAL CONTROL SHALL OVERRIDE ALL OTHER CONTROL SEQUENCES.
   c. DURING NORMAL OPERATION, IF ANY OF THE MANUAL SWITCHES ARE IN THE OFF POSITION, A NON-CANCELABLE TROUBLE ALARM SHALL BE ACTIVATED AT THE CONTROL PANEL.
6. ONE STATIC PRESSURE SENSOR SHALL BE PROVIDED FOR EACH SHAFT (BOTTOM LEVEL OF SHAFT). THE SENSORS SHALL PROVIDE A STATIC PRESSURE READING TO THE VFD CONTROLLERS.
7. PRESSURIZATION FAN ACTIVATION SHALL OCCUR THROUGH THE FIRE ALARM SYSTEM.
8. PRESSURIZATION FAN STATIC PRESSURE CONTROL SHALL OCCUR THROUGH PRESSURIZATION FAN PRESSURIZATION FAN CONTROL PANEL SHALL BE PROVIDED EMERGENCY POWER.
9. PRESSURIZATION FAN CONTROL PANEL SHALL BE A CUSTOMIZED PANEL WITH AUXILIARY CONTACTS TO CONNECT TO THE FIRE ALARM SYSTEM.

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR. STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1820

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Pressurization Fans Schematic & Specfications

M400

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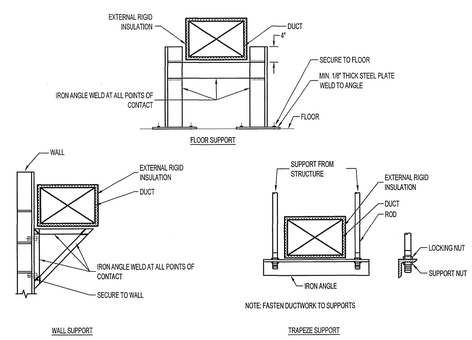
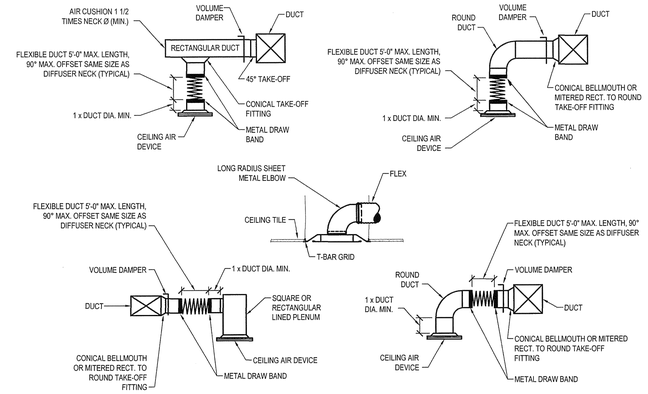
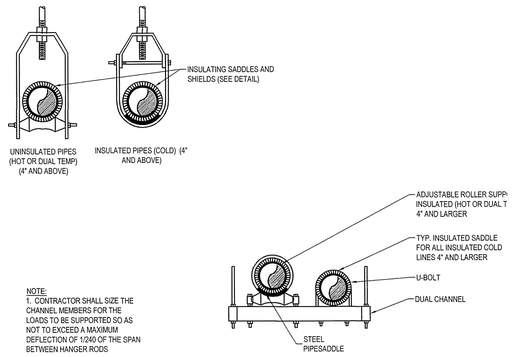


5 M500 TYPICAL INTERIOR DUCT SUPPORT DETAIL
NOT TO SCALE

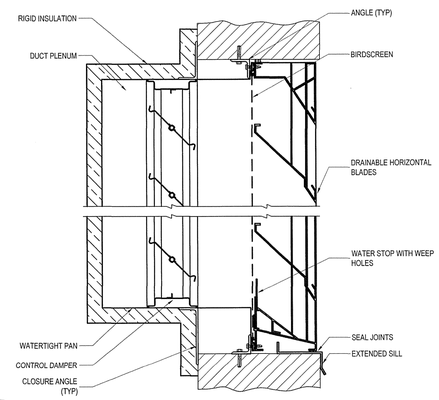


1 M500 TYPICAL CEILING AIR DEVICE DETAIL
NOT TO SCALE



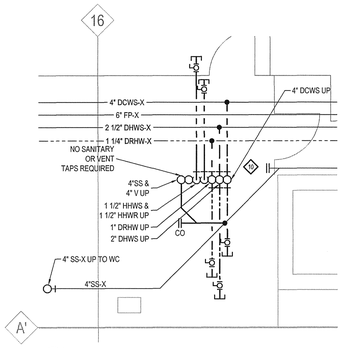
NOTE:
1. CONTRACTOR SHALL SIZE THE CHANNEL MEMBERS FOR THE LOADS TO BE SUPPORTED SO AS NOT TO EXCEED A MAXIMUM DEFLECTION OF 1/240 OF THE SPAN BETWEEN HANGER RODS

6 M500 PIPE SUPPORT AND HANGER DETAIL
NOT TO SCALE

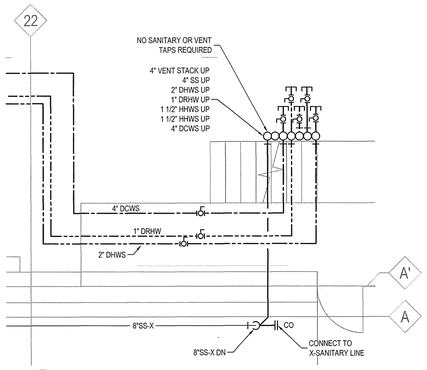


2 M500 TYPICAL LOUVER WITH CONTROL DAMPER DETAIL
NOT TO SCALE

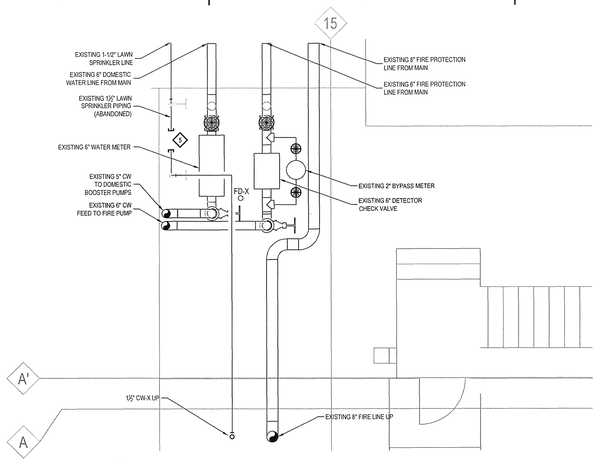
| PROJECT: PAB - NEW CHASE AND HIGH RISE UPGRADES | HARDWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SOFTWARE | | | | | | | | | | | | | | | | | | |



3 MP200 MEZZANINE PIPING PLAN WEST
1/4" = 1' - 0"



2 MP200 MEZZANINE PIPING PLAN EAST
1/4" = 1' - 0"



1 MP200 SUB-BASEMENT METER ROOM PIPING PLAN
1/4" = 1' - 0"

KEY NOTES

1. PROVIDE 4" SANITARY WASTE AND 2" VENT, 1" DOMESTIC HOT WATER, 2" DOMESTIC COLD WATER AND ¾" RE-CIRCULATION, AND 1½" HEATING HOT WATER SUPPLY AND RETURN TAPS WITHIN CEILING SPACE FROM RISERS. PROVIDE SHUT OFF VALVES AND CAP FOR FUTURE CONNECTION.
2. RE-ROUTE 1"CONDENSATE LINE ADJACENT EXISTING STEAM LINE WITHIN NEW RATED SOFFIT. COORDINATE LOCATION WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS.
3. EXISTING FIRE SPRINKLER AND EXISTING HEATING HOT WATER SUPPLY AND RETURN PIPING TO BE ENCLOSED IN NEW RATED CHASE WALL. SEE ARCHITECTURAL DRAWINGS. COORDINATE WITH GENERAL CONTRACTOR.
4. PROVIDE SHUT OF VALVE AND HOSE CONNECTION DRAIN AT BOTTOM OF HEATING HOT WATER AND DOMESTIC WATER PIPING RISERS.
5. CAP EXISTING ABANDONED IRRIGATION SYSTEM PIPING.
6. COORDINATE ROUTING OF NEW CONDENSATE LINE WITH EXISTING DUCTWORK AND PIPING.
7. RACK AND ROUTE PIPING AS REQUIRED TO MAINTAIN HEADROOM AND PASSAGEWAY.
8. KEEP EXISTING FLOOR DRAIN AND PROVIDE NEW FUNNEL RECEPTOR. EXTEND FLOOR DRAIN UP THROUGH NEW FIRE PUMP HOUSEKPEEPING PAD A NEEDED. COORDINATE WITH DIVISION 21 CONTRACTOR.
9. REROUTE 1"COND-X PIPING IN FIRE RATED SOFFIT. COORDINATE EXACT LOCATION WITH ARCHITECT.
10. CONTRACTOR SHALL COORDINATE WITH DIVISION 21 CONTRACTOR WITH THE RELOCATION OF EXISTING SPRINKLER HEADS AS NECESSARY TO ACCOMMODATE FOR NEW PLUMBING IN THE MEZZANINE.

DEMOLITION NOTES

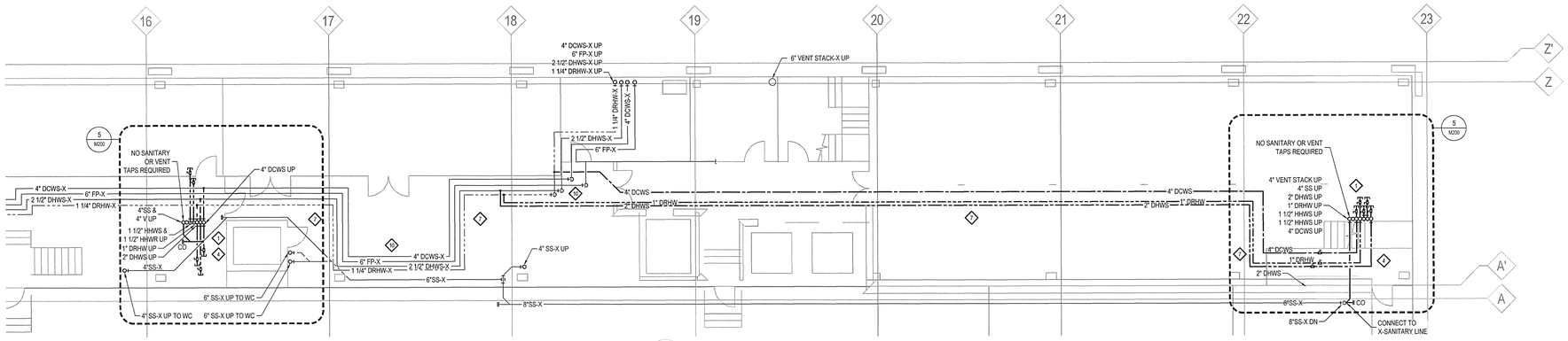
1. CONTRACTOR TO COORDINATE PIPE SHAFT WITH GENERAL CONTRACTOR. COORDINATE WITH EXISTING STRUCTURE.
2. CONTRACTOR TO COORDINATE WALL CORES WITH GENERAL CONTRACTOR.
3. REMOVE EXISTING PORTION OF CONDENSATE PIPING. FIRE CAULK WALL OPENINGS.
4. REMOVE EXISTING CMU WALL ABOVE CEILING TO ACCOMMODATE PIPE CORES.

GENERAL NOTES

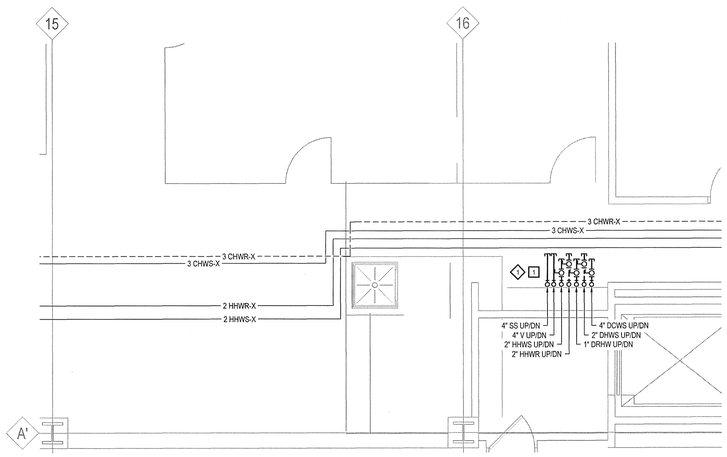
1. REFER TO ARCHITECTURAL PLANS FOR NEW CHASE LOCATIONS. COORDINATE WITH EXISTING FLOOR DECK SYSTEM. PIPE RISERS TO BE LOCATED AT STRUCTURAL DECK.
2. ALL NEW TIE-INS TO EXISTING AHU, DUCTWORK AND PIPING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
3. ALL CHILLED & HOT WATER TIE-INS SHALL BE DONE DURING OFF SEASONS
4. VERIFY ALL FUTURE STUB-OUT CONNECTIONS WITH EXISTING CONDITIONS AND NEW WORK. AREA IN FRONT OF ALL FUTURE STUB-OUT CONNECTIONS SHALL BE CLEAR OF OBSTRUCTIONS.
5. BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR SHALL SEQUENCE DEMOLITION WORK WITH THE CITY OF MILWAUKEE.
6. PROVIDE FIRESTOPPING FOR ALL DUCTWORK & PIPING PENETRATIONS AT FIRE RESISTIVE SHAFT WALLS AND FLOOR ASSEMBLIES.

ABATEMENT NOTES

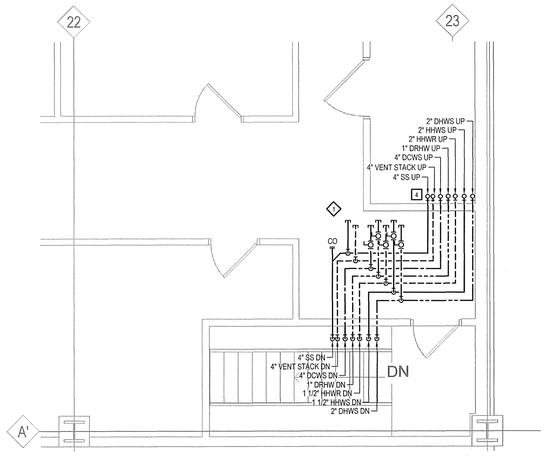
1. ABATEMENT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APRLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL UTILIZE GLOVE BAGS FOR ASBESTOS ABATEMENT WHEN REMOVING EXISTING INSULATION FOR ALL NEW TIE-INS TO EXISTING PIPING.
3. CONTRACTOR SHALL INSTALL NEW INSULATION ON EXISTING PIPING PER SPECIFICATIONS.



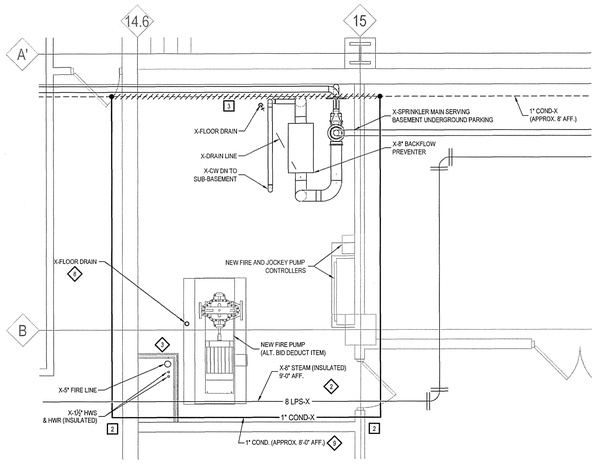
4 MP200 MEZZANINE PIPING PLAN (BETWEEN SUB-BASEMENT & BASEMENT)
1/8" = 1' - 0"



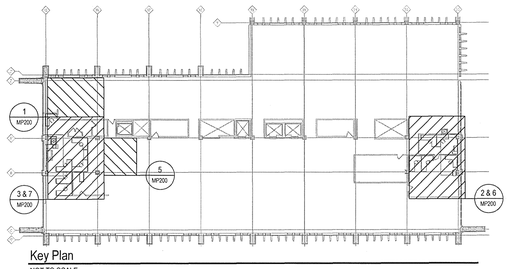
7 MP200 BASEMENT PIPING PLAN WEST
1/4" = 1' - 0"



6 MP200 BASEMENT PIPING PLAN EAST
1/4" = 1' - 0"



5 MP200 BASEMENT FIRE PUMP ROOM PIPING PLAN
1/4" = 1' - 0"



Key Plan
NOT TO SCALE

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7294
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 tel 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Sub-Basement & Basement Mechanical and Plumbing Piping Plans

MP200

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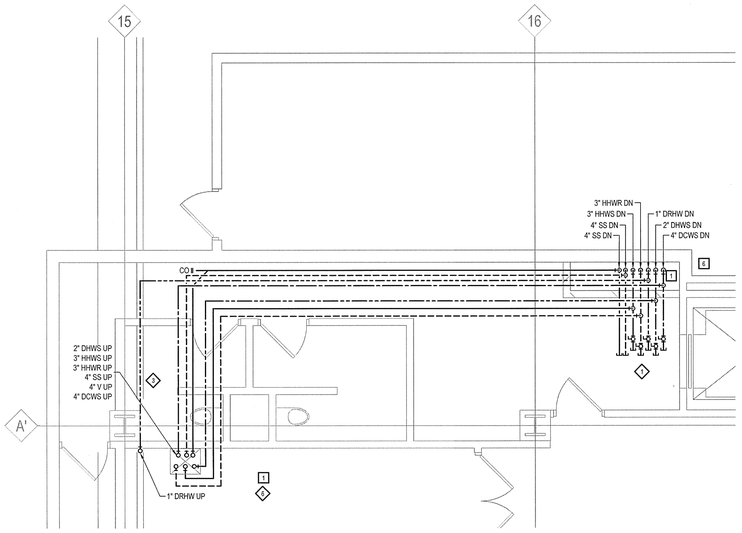
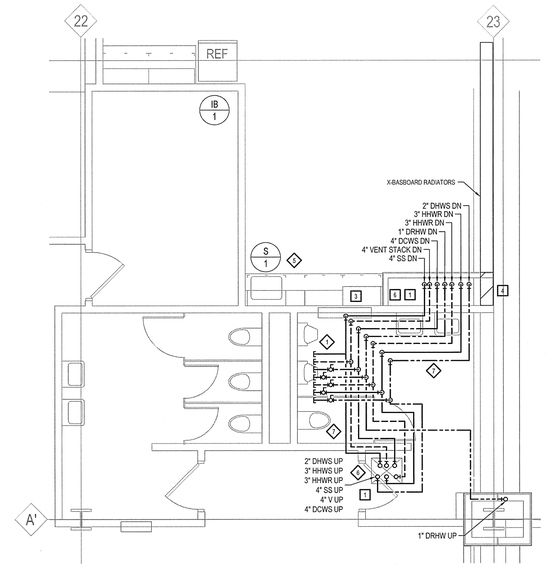
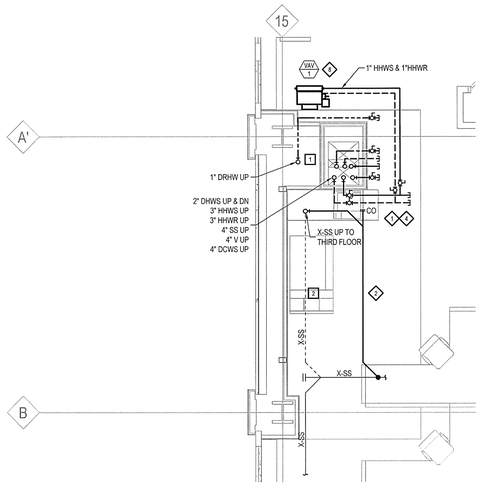


5 MP201 FIRST FLOOR PIPING PLAN WEST
1/4" = 1' - 0"



1 MP201 FIRST FLOOR PIPING PLAN EAST
1/4" = 1' - 0"



6 MP201 SECOND FLOOR PIPING PLAN WEST
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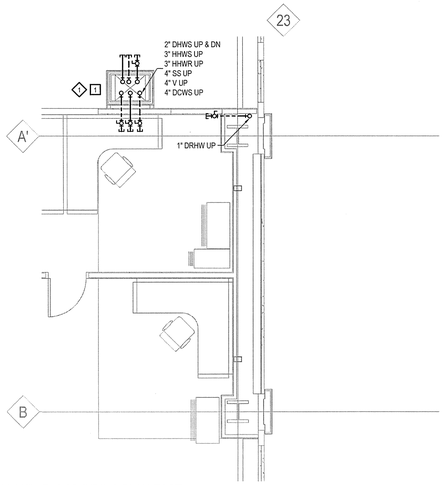
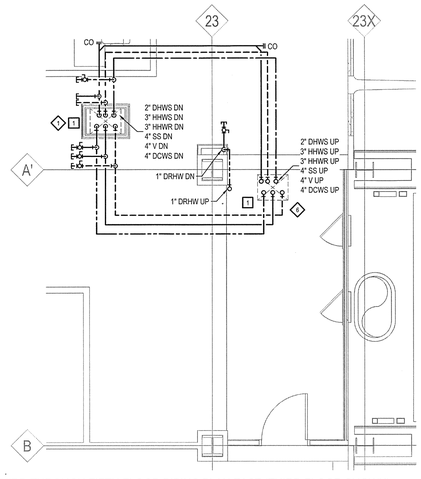
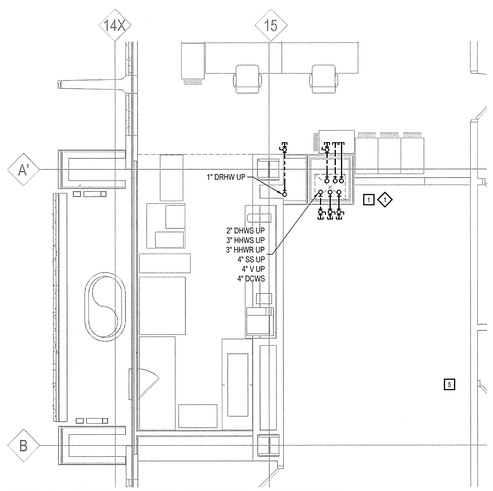


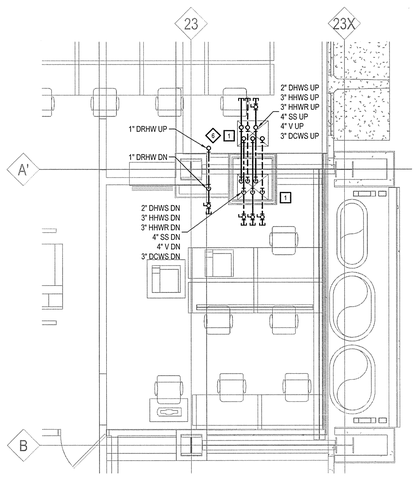
2 MP201 SECOND FLOOR PIPING PLAN EAST
1/4" = 1' - 0"



3 MP201 THIRD THROUGH FIFTH FLOOR PIPING PLAN EAST (THIRD FLOOR SHOWN)
1/4" = 1' - 0"



7 MP201 THIRD THROUGH SIXTH FLOOR PIPING PLAN WEST (THIRD FLOOR SHOWN)
1/4" = 1' - 0"



4 MP201 SIXTH FLOOR PIPING PLAN EAST
1/4" = 1' - 0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR NEW CHASE LOCATIONS. COORDINATE WITH EXISTING FLOOR DECK SYSTEM. PIPE RISERS TO BE LOCATED AT STRUCTURAL DECK.
2. ALL NEW TIE-INS TO EXISTING AHU, DUCTWORK AND PIPING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
3. ALL CHILLED & HOT WATER TIE-INS SHALL BE DONE DURING OFF SEASONS
4. VERIFY ALL FUTURE STUB-OUT CONNECTIONS WITH EXISTING CONDITIONS AND NEW WORK. AREA IN FRONT OF ALL FUTURE STUB-OUT CONNECTIONS SHALL BE CLEAR OF OBSTRUCTIONS.
5. BUILDING CONTAINS HAZARDOUS MATERIALS INCLUDING BUT NOT NECESSARILY LIMITED TO ASBESTOS CONTAINING FIREPROOFING AND PIPE INSULATION. CONTRACTOR SHALL SEQUENCE DEMOLITION WORK WITH THE CITY OF MILWAUKEE.
6. PROVIDE FIRESTOPPING FOR ALL DUCTWORK & PIPING PENETRATIONS AT FIRE RESISTIVE SHAFT WALLS AND FLOOR ASSEMBLIES.

PLUMBING SCHEDULE

S-1: COUNTER-SEAL CSN09 - 22-5/8" x 18-1/2 x 8" DEEP (OR APPROVED EQUAL) UNDERMOUNT SINGLE BOWL SINK, 18 GAUGE TYPE 304 STAINLESS STEEL AND ONE 3½" DRAIN OPENING.

a. FIXTURE: PROVIDE WITH RING-IN-BOARD FOR LAMINATE COUNTERTOP INSTALLATION.
b. FAUCET: MOEN FAUCET CA7594, PULLOUT SPRAY WITH BRAIDED HOSE, HIGH ARC SPOUT, 360° ROTATING SPOUT, LEVER STYLE HANDLE, 2.2 GPM AERATOR
c. DRAIN: ELKAY LK-372 TYPE 316 STAINLESS STEEL WITH 1½" x 1½" CAST BRASS TRAP WITH CLEANOUT PLUG
d. SUPPLIES AND STOPS: CHICAGO FAUCET 1006 ANGLE VALVE WITH LOOSE KEY HANDLE

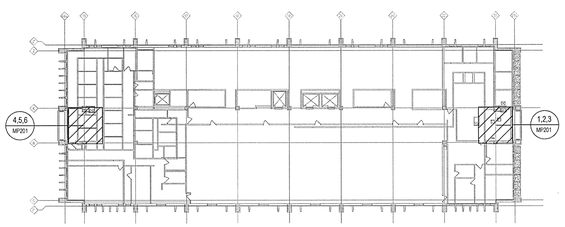
IB-1: OATEY, RECESSED ICE MAKER OUTLET BOX WITH SUPPLY VALVE AND MADE OF HIGH IMPACT POLYSTYRENE.

DEMOLITION NOTES

1. CONTRACTOR TO COORDINATE PIPE SHAFT WITH GENERAL CONTRACTOR. COORDINATE WITH EXISTING STRUCTURE.
2. REMOVE EXISTING PORTION OF SANITARY PIPING FOR RE-ROUTING.
3. REMOVE EXISTING BREAK ROOM SINK. DISCONNECT EXISTING COLD WATER SUPPLY AND FILTER TO EXISTING REFRIGERATOR ICE COMPARTMENT AND RELOCATION TO NEW REFRIGERATOR. FIELD VERIFY EXACT LOCATION. REFER TO ARCHITECTURAL PLANS.
4. REMOVE SECTION OF EXISTING BASEBOARD RADIATOR TO ACCOMMODATE FOR NEW PIPE CHASE. RELOCATE CONTROL VALVE OUTSIDE OF NEW PIPE CHASE FOR ACCESSIBILITY.
5. REMOVE EXISTING TOILET AND CAP PIPES BACK TO MAIN IN THE STORAGE ROOM ON THE FOURTH FLOOR. REFER TO ARCHITECTURAL DWG C1A104.
6. CORE THROUGH 1ST FLOOR STRUCTURAL SLAB FOR PIPE PENETRATIONS. SUBMIT PIPE CORE LAYOUT TO ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CORING.

KEY NOTES

1. PROVIDE 4" SANITARY WASTE AND 2" VENT, 1" DOMESTIC HOT WATER, 2" DOMESTIC COLD WATER AND ¾" RE-CIRCULATION, AND 1½" HEATING HOT WATER SUPPLY AND RETURN TAPS WITHIN CEILING SPACE FROM RISERS. PROVIDE SHUT OFF VALVES AND CAP FOR FUTURE CONNECTION.
2. RE-ROUTE EXISTING SANITARY PIPING. MATCH EXISTING PIPE SIZE AND PITCH. CAP ABANDONED FITTINGS.
3. RELOCATE EXISTING CONTROL PANEL IN MECHANICAL MEZZANINE (CEILING SPACE ABOVE FIRST FLOOR). COORDINATE WITH EXISTING STRUCTURE, DUCTWORK AND PIPING.
4. OFFSET PIPE RISERS AT 2ND FLOOR TO ACCOMMODATE FOR THE PIPE SHAFT LOCATION AT 3RD FLOOR.
5. EXTEND EXISTING SANITARY & WATER PIPING FOR EXISTING SINK AND CONNECT TO NEW BREAK ROOM SINK. FIELD VERIFY EXACT LOCATION.
6. BOTTOM OF NEW PIPE SHAFT SHALL BE FULLY FIRESTOPPED.
7. ROUTE NEW PIPING UNDER EXISTING SUPPLY DUCT AND UP OVER X-AHU. FIELD VERIFY ALL ROUTING AND COORDINATE WITH EXISTING DUCTWORK. REFER TO DWG 2/M100 FOR EXISTING DUCTWORK.
8. TAG VAV BOX PER SPECIFICATIONS.



Key Plan
NOT TO SCALE

eppstein uhen : architects
milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W23195 JOHNSON DR. STE 180, WAUKESHA, WI 53186
262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

First Through Sixth Floor Mechanical and Plumbing Piping Plans

MP201

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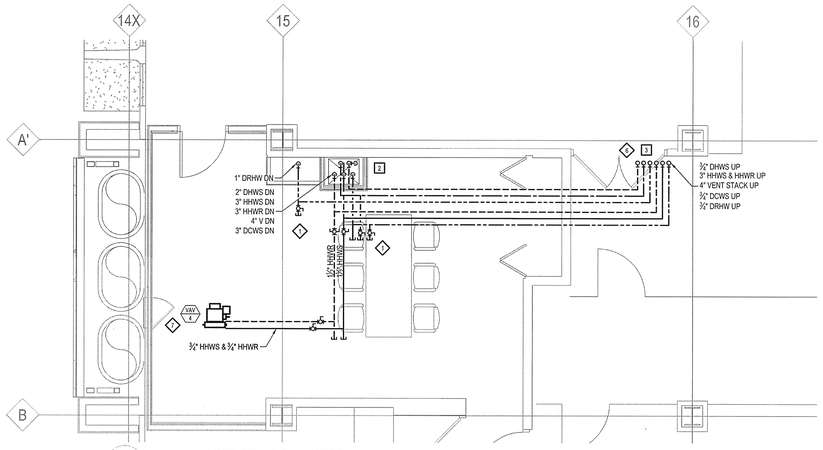
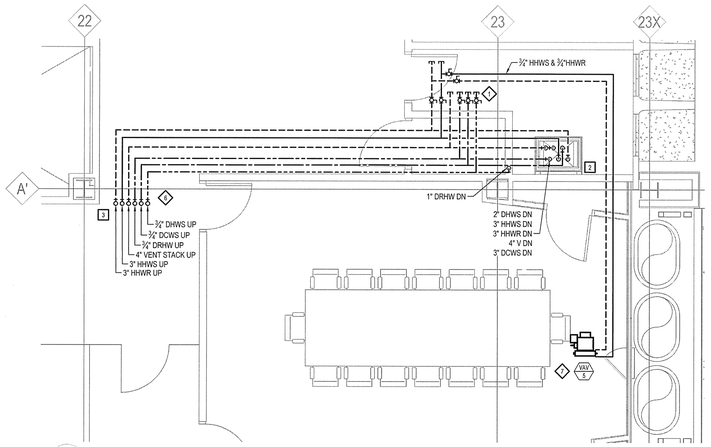


2 MP202 SEVENTH FLOOR PIPING PLAN WEST 1/4" = 1' - 0"



1 MP202 SEVENTH FLOOR PIPING PLAN EAST 1/4" = 1' - 0"

KEY NOTES

1. PROVIDE 2" VENT, 1" DOMESTIC HOT WATER, 2" DOMESTIC COLD WATER AND 3/4" RE-CIRCULATION, AND 1 1/2" HEATING HOT WATER SUPPLY AND RETURN TAPS WITHIN CEILING SPACE FROM RISERS. PROVIDE SHUT OFF VALVES AND CAP FOR FUTURE CONNECTION.
2. VENT STACK UP THROUGH ROOF. PATCH EXISTING BUILT-UP ROOFING WEATHER TIGHT.
3. ROUTE NEW CAST IRON STORM WATER PIPING AROUND NEW SA PLENUM AND DUCTWORK. RECONNECT EXISTING CONDUCTOR FOR EXISTING ROOF DRAIN. MAINTAIN PITCH OF EXISTING PIPING. COORDINATE WITH EXISTING CONDITIONS AND STRUCTURE. PIPING TO BE INSULATED PER SPECIFICATIONS.
4. PROVIDE NEW 3" HHWS & HHWR CONNECTION TO EXISTING 5" HHWS & HHWR MAINS. COORDINATE PIPE ROUTING TO RISER WITH EXISTING CONDITIONS.
5. PROVIDE NEW CHILLED WATER CONNECTION FROM EXISTING CHILLED WATER PIPING TO SERVE NEW FAN COIL. ROUTE CONDENSATE TO LOCAL FLOOR DRAIN.
6. BOTTOM OF NEW PIPE SHAFT SHALL BE FULLY FIRESTOPPED.
7. TAG VAV BOX PER SPECIFICATIONS.

DEMOLITION NOTES

1. REMOVE EXISTING PORTION OF STORM WATER PIPING. PIPING TO BE RE-ROUTED AROUND NEW SA PLENUM AND DUCTWORK.
2. CONTRACTOR TO COORDINATE PIPE SHAFT WITH GENERAL CONTRACTOR. COORDINATE WITH EXISTING STRUCTURE.
3. CORE THROUGH 8TH FLOOR STRUCTURAL SLAB FOR PIPE PENETRATIONS. SUBMIT PIPE CORE LAYOUT TO ARCHITECT/STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CORING.

GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR NEW CHASE LOCATIONS. COORDINATE WITH EXISTING FLOOR DECK SYSTEM. PIPE RISERS TO BE LOCATED AT STRUCTURAL DECK.
2. ALL NEW TIE-INS TO EXISTING AHU, DUCTWORK AND PIPING SHALL BE DONE DURING 2ND OR 3RD SHIFTS AND ON WEEKENDS. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
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4. VERIFY ALL FUTURE STUB-OUT CONNECTIONS WITH EXISTING CONDITIONS AND NEW WORK AREA IN FRONT OF ALL FUTURE STUB-OUT CONNECTIONS SHALL BE CLEAR OF OBSTRUCTIONS.
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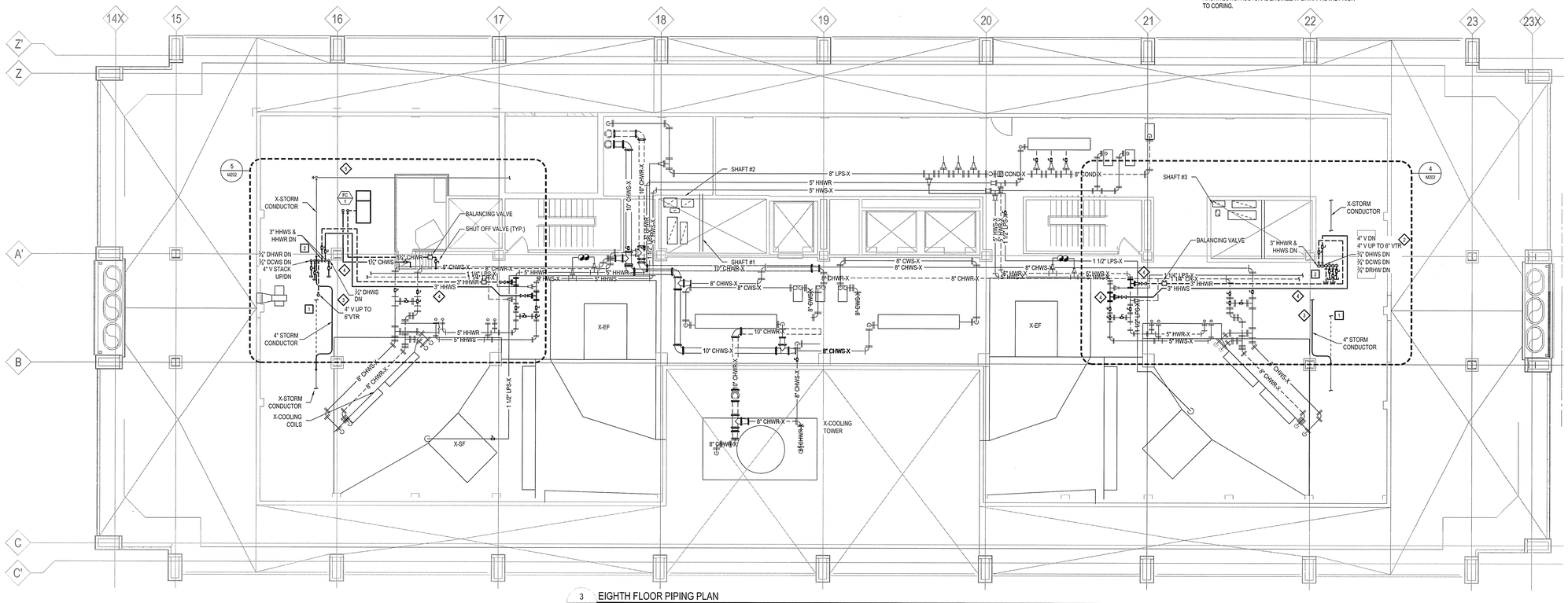
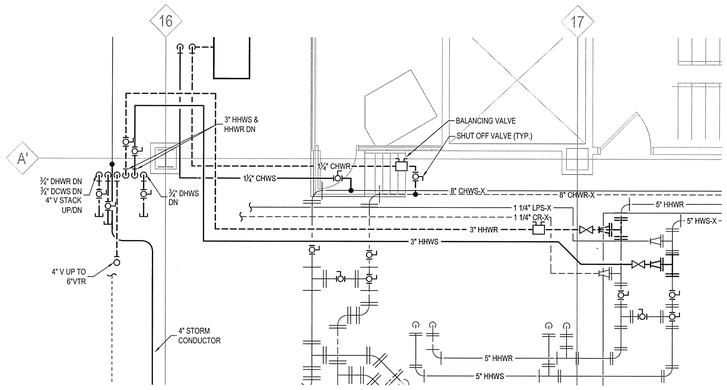
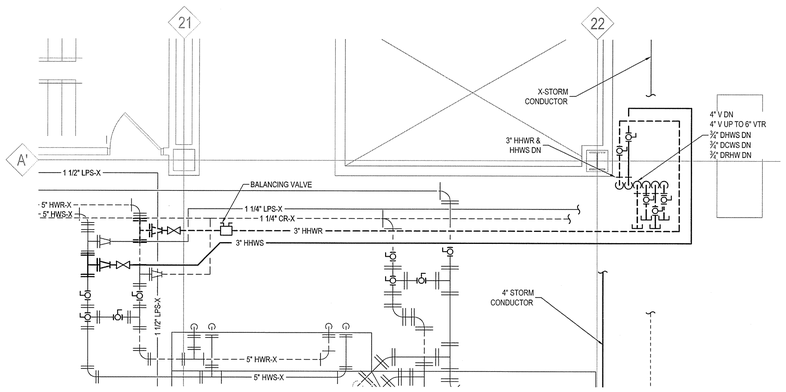


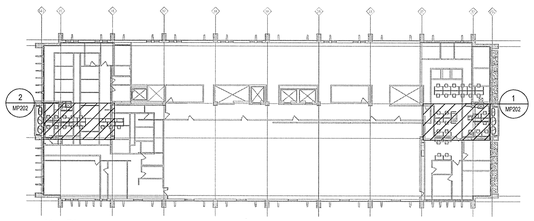
3 MP202 EIGHTH FLOOR PIPING PLAN 1/8" = 1' - 0"



5 MP202 EIGHTH FLOOR PIPING PLAN WEST 1/4" = 1' - 0"



4 MP202 EIGHTH FLOOR PIPING PLAN EAST 1/4" = 1' - 0"



Key Plan
NOT TO SCALE

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	TK
PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Seventh & Eighth Floor Mechanical & Plumbing Piping Plans

MP202

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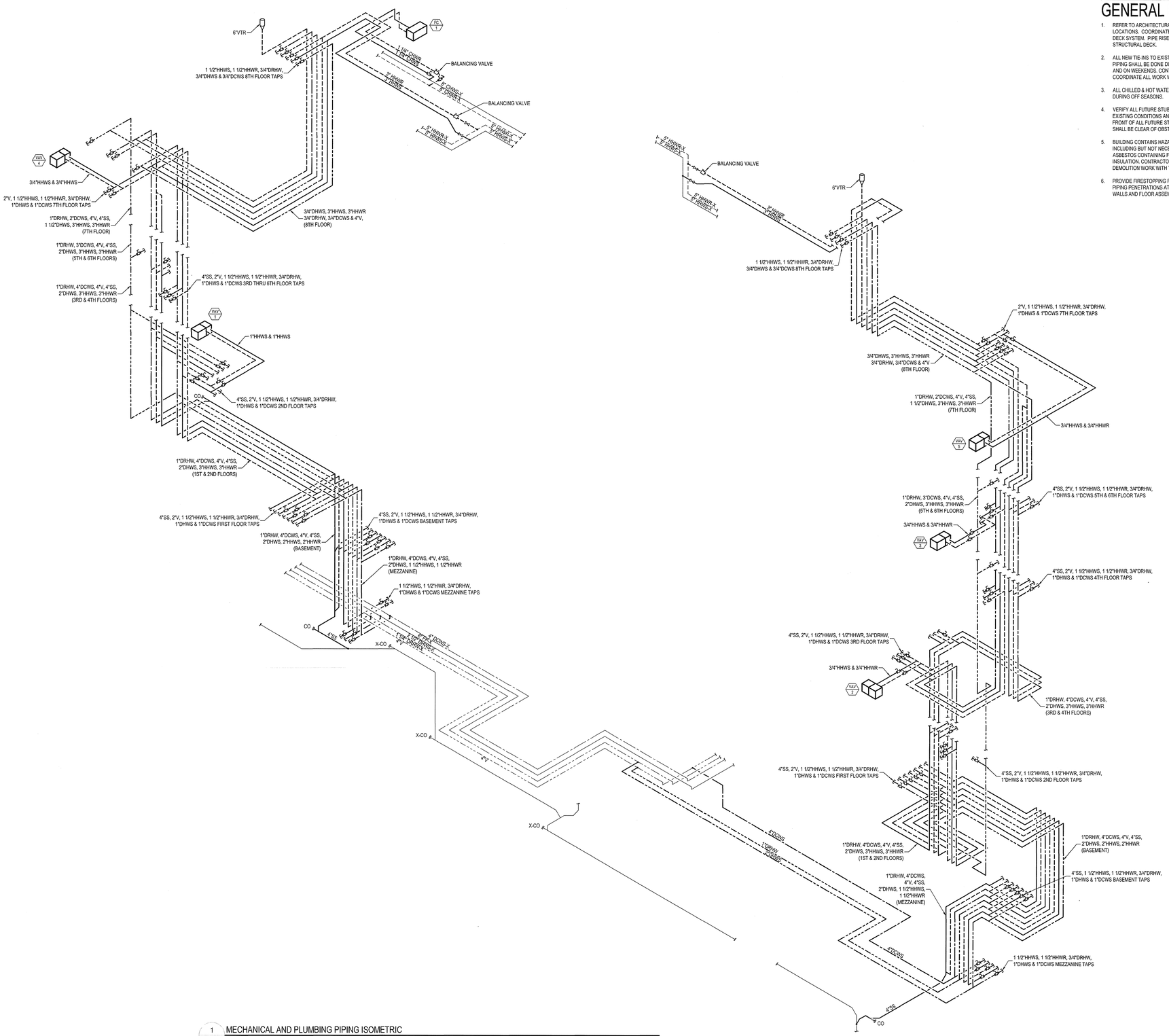

1 MP300 MECHANICAL AND PLUMBING PIPING ISOMETRIC
NOT TO SCALE

GENERAL NOTES

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eu:a

eppstein uhen : architects

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

IBC ENGINEERING SERVICES INC.
N8 W22195 JOHNSON DR, STE 180 WAUKESHA, WI 53186 262.549.1190 fx 262.549.1620

PROJECT INFORMATION

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PROJECT NUMBER	310077-09
DATE	APRIL 2, 2012

Mechanical & Plumbing Piping Isometric

MP300

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LIGHTING

- FLUORESCENT LIGHTING FIXTURE
- UNDER CABINET LIGHTING FIXTURE
- WALL MOUNTED FLUORESCENT FIXTURE
- EMERGENCY BATTERY UNIT
- LIGHT TRACK ASSEMBLY
- POLE MOUNTED LIGHT FIXTURE
- POST TOP MOUNTED LIGHT FIXTURE OR BOLLARD
- FLOOD LIGHT
- CEILING RECESSED LIGHTING FIXTURE
- WALL RECESSED LIGHTING FIXTURE
- CEILING MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE – WALL OR CEILING MOUNTED WITH DIRECTION ARROWS AS REQUIRED
- x x — LOCAL LINE VOLTAGE SWITCH – MOUNTED 48" AFF

SWITCH DESIGNATION
SWITCH TYPE

C	–	MOUNTED 6" ABOVE COUNTER
DLS	–	DUAL LEVEL SWITCHING (INNER/OUTER LAMPS)
E	–	EXPLOSION PROOF
K	–	KEY OPERATED
PL	–	PILOT LIGHT
SD	–	STEP–DIM (DUAL LEVEL SWITCHING)
SSX	–	SWITCH STATION
WP	–	WEATHER PROOF
2	–	DOUBLE POLE
3	–	3 WAY
4	–	4 WAY

- OS x — OCCUPANCY SENSOR

DENOTES THE FOLLOWING:

CW	–	COLD WEATHER (PIR)
DT	–	DUAL TECHNOLOGY (PIR/ULTRASONIC)
DLS	–	DUAL LEVEL SWITCHING (INNER/OUTER LAMPS)
PP	–	POWER PACK
SP	–	SLAVE PACK
UA	–	ULTRASONIC AREA COVERAGE
UH	–	ULTRASONIC HALL COVERAGE
W	–	WALL MOUNTED
WT	–	WALL TIMER
WP	–	WALL PIR
2	–	TWO INDEPENDENT LTG. LOADS
3	–	3 WAY

- x — MOMENTARY CONTACT SWITCH – SUBSCRIPT DESIGNATION INDICATES CONTACTOR CONTROLLED
- DIMMING SWITCH – MOUNTED 48" AFF
- LOCAL SWITCH, SINGLE POLE, WITH DUPLEX RECEPTACLE – MOUNTED 48" AFF
- C — LOCAL SWITCH, SINGLE POLE, WITH DUPLEX RECEPTACLE – MOUNTED 6" ABOVE COUNTER
- L x — LOW VOLTAGE SWITCH STATION

DENOTES THE FOLLOWING:

DLS	–	DUAL LEVEL SWITCHING
K	–	KEYED SWITCH
OR	–	OVERRIDE

- LCP 1 — LIGHTING CONTROL PANEL
- LRR 1 — LIGHTING REMOTE RELAY
- R — LOCAL EMERGENCY RELAY
- ZONE X–X–X — LIGHTING CONTROL

DENOTES THE FOLLOWING:
RELAY/DIMMER CONNECTION POINT
MODULE NO.
LIGHTING PANEL NO.

INTERCOM/CLOCK/SOUND

- I — INTERCOM STATION
- I MS — INTERCOM MASTER STATION
- I 1 — INTERCOM SWITCHING EQUIPMENT
- SYSTEM CLOCK – MOUNTED 1'–0" BELOW FINISHED CEILING
- DF — SYSTEM CLOCK – DUAL FACE – MOUNTED 1'–0" BELOW FINISHED CEILING
- ELAPSE TIMER
- CP — CLASSROOM PANEL
- TT — TIME–TONE UNIT (CLOCK/SPEAKER)
- IC x — CALL–IN DEVICE – MOUNTED AT 48" AFF

DENOTES THE FOLLOWING:

A	–	ADMINISTRATIVE TELEPHONE
C	–	CALL BUTTON
H	–	HAND SET

- M — MICROPHONE OUTLET – MOUNTED AT 18' AFF
- M S — MICROPHONE OUTLET – MOUNTED FLUSH IN FLOOR
- LOUDSPEAKER – FLUSH MOUNTED ON CEILING
- S — LOUDSPEAKER – SURFACE MOUNTED ON CEILING
- LOUDSPEAKER – FLUSH MOUNTED ON WALL
- S — LOUDSPEAKER – SURFACE MOUNTED ON WALL
- D P — CEILING SPEAKER – DUAL TAP, COMBINATION PAGING AND INTERCOM
- HORN LOUDSPEAKER – SURFACE MOUNTED
- AMP — INTERCOMMUNICATION AMPLIFIER
- V — VOLUME CONTROL – MOUNTED AT 48" AFF

POWER AND DIAGRAMS

- SINGLE RECEPTACLE – MOUNTED 16" AFF TO BOTTOM, UNLESS NOTED.
- x — DUPLEX RECEPTACLE – MOUNTED 16" AFF TO BOTTOM, UNLESS NOTED.

DENOTES THE FOLLOWING:

C	–	MOUNTED 6" ABOVE COUNTER TO BOTTOM
CLG	–	CEILING MOUNTED
DD	–	FOURPLEX RECEPTACLE – TWO DUPLEX RECEPTACLES UNDER A COMMON COVERPLATE.
EQ	–	MOUNTED ON EQUIPMENT OR MILLWORK FURNISHED BY OTHERS.
GFI	–	GROUND FAULT CIRCUIT INTERRUPTER TYPE
H	–	MOUNTED HORIZONTALLY
IG	–	ISOLATED GROUND
S	–	UPPER HALF SWITCH
TP	–	TAMPER PROOF "CHILDSAFE" TYPE
TS	–	MOUNTED HORIZONTALLY IN TOE SPACE
TVSS	–	TRANSIENT VOLTAGE SURGE SUPPRESSER WITH ISOLATED GROUND.
WP	–	WEATHER PROOF WITH GFI
WPIU	–	WEATHER PROOF WITH GFI AND IN–USE COVER

- FLOORBOX COMBINATION – POWER, TELEPHONE, DATA
- x — FLUSH FLOOR OUTLET

DENOTES THE FOLLOWING:

FC	–	FURNITURE PARTITION COMMUNICATION FEED
FP	–	FURNITURE PARTITION POWER FEED
R	–	DUPLEX RECEPTACLE(S)

- SPECIAL PURPOSE OUTLET – SEE SCHEDULE
- MULTI–RECEPTACLE ASSEMBLY WITH DEVICES INDICATED
- x — JUNCTION BOX

DENOTES THE FOLLOWING:

FP	–	POWER CONNECTION TO BUILT–IN COUNTER OR FURNITURE PARTITION(S).
PP	–	POWER POLE
TP	–	TELECOMMUNICATIONS CONNECTION TO BUILT–IN COUNTER OR FURNITURE PARTITION(S).

- EMERGENCY MUSHROOM HEAD PUSH BUTTON
- GEN ANN — EMERGENCY GENERATOR REMOTE ANNUNCIATOR
- PUSH BUTTON
- MOTOR – SEE SCHEDULE
- MS — MOTOR STARTER
- DISCONNECT SWITCH
- DISCONNECT SWITCH – FUSIBLE
- ELC — ELEVATOR CONTROLLER
- PC — PHOTOCELL
- PS — PHOTO SENSOR
- TC — TIME CLOCK
- C — CONTACTOR
- R — RELAY
- S — SCOREBOARD JACK – MOUNTED AT 18" AFF
- SWITCH – NON FUSED; AMPS, POLES
- SWITCH – FUSED; AMPS, POLES
- CIRCUIT BREAKER; AMPS, POLES
- LA — LIGHTNING/SURGE ARRESTER
- PT — POTENTIAL TRANSFORMER
- CURRENT TRANSFORMER
- M — METER
- AUTOMATIC TRANSFER SWITCH – (3) POLE
- AUTOMATIC TRANSFER SWITCH – (3) POLE WITH BYPASS ISOLATION.
- GEN — GENERATOR
- ELECTRICAL DISTRIBUTION PANEL – EXISTING
- ELECTRICAL DISTRIBUTION PANEL – NEW
- T — TRANSFORMER
- GROUND
- TRANSOCKET/METER
- CABLE TRAY

X / X X — TYPE

L	–	LADDER
M	–	MESH
S	–	SOLID BOTTOM

DEPTH
WIDTH

X–3 — CIRCUITING
CIRCUIT NUMBER
PANELBOARD DESIGNATION

#6 — RACEWAY CONDUCTOR
WIRE SIZE, IF OTHER THAN #12
QUANTITY OF PHASE CONDUCTORS
NEUTRAL CONDUCTOR
GROUND CONDUCTOR

FIRE ALARM SYSTEM

- FA x — FIRE ALARM DEVICE

DENOTES THE FOLLOWING:

B	–	BELL
CM	–	CONTROL MODULE
DH	–	DOOR HOLDER
DD	–	SMOKE DUCT DETECTOR
FJ	–	FIREMAN'S JACK
FP	–	FIREMAN'S PHONE
FS	–	FLOW SWITCH
HD	–	HEAT DETECTOR (RATE OF RISE/FIXED)
HO	–	HORN ONLY
HV15	–	HORN WITH 15/75 CANDELA STROBE (MOUNTED 80" AFF)
HV30	–	HORN WITH 30 CANDELA STROBE (MOUNTED 80" AFF)
HV75	–	HORN WITH 75 CANDELA STROBE (MOUNTED 80" AFF)
HV110	–	HORN WITH 110 CANDELA STROBE (MOUNTED 80" AFF)
MM	–	MONITOR MODULE
PBR	–	PROJECTED BEAM TYPE – REFLECTOR
PBT	–	PROJECTED BEAM TYPE – TRANSMITTER
PS	–	PULL STATION – MOUNTED 48"AFF
PSW	–	PRESSURE SWITCH
RTI	–	REMOTE TEST INDICATOR
SO	–	SPEAKER ONLY
SD	–	PHOTOELECTRIC SMOKE DETECTOR
SV1	–	SPEAKER WITH 15/75 CANDELA STROBE (MOUNTED 80" AFF)
SV2	–	SPEAKER WITH 30 CANDELA STROBE (MOUNTED 80" AFF)
SV3	–	SPEAKER WITH 75 CANDELA STROBE (MOUNTED 80" AFF)
SV4	–	SPEAKER WITH 110 CANDELA STROBE (MOUNTED 80" AFF)
TS	–	TAMPER SWITCH
VO1	–	VISUAL UNIT ONLY, 15/75 CANDELA STROBE (MOUNTED 80" AFF)
VO2	–	VISUAL UNIT ONLY, 30 CANDELA STROBE (MOUNTED 80" AFF)
VO3	–	VISUAL UNIT ONLY, 75 CANDELA STROBE (MOUNTED 80" AFF)
VO4	–	VISUAL UNIT ONLY, 110 CANDELA STROBE (MOUNTED 80" AFF)
WG	–	WIRE GUARD
WP	–	WEATHERPROOF

- FA CP — FIRE ALARM CONTROL PANEL
- FA ANN — FIRE ALARM REMOTE ANNUNCIATOR
- FA NAC — FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT EXTENDER
- SD — SMOKE DETECTOR
- CO — CARBON MONOXIDE DETECTOR

RESCUE ASSISTANCE

- RAS — RESCUE ASSISTANCE STATION
- RAA — RESCUE ASSISTANCE ANNUNCIATOR
- RAP — RESCUE ASSISTANCE POWER SUPPLY

CCTV SYSTEM

- x X — CAMERA

DENOTES THE FOLLOWING:

PTZ	–	PAN TILT ZOOM
WA	–	WIDE ANGLE

DENOTES ASSEMBLY TYPE

- M — MONITOR

TELECOMMUNICATIONS

- x — TELECOMMUNICATIONS OUTLET – MOUNTED 18" AFF, UNLESS NOTED OTHERWISE

DENOTES THE FOLLOWING:

C	–	MOUNTED 6" ABOVE COUNTER
D	–	DATA JACK
EQ	–	MOUNTED ON EQUIPMENT FURNISHED BY OTHERS
P	–	PAY TELEPHONE – MOUNTED AT 48"AFF
T	–	TELEPHONE JACK
TV	–	TELEVISION
W	–	WALL MOUNTED – 48"AFF
XX	–	SPECIAL MOUNTING HEIGHT INDICATED ON THE DRAWINGS
(X)	–	INDICATES QUANTITY IF MORE THAN ONE

- AP — WIRELESS ACCESS POINT

SECURITY

- S x — SECURITY, ACCESS CONTROL AND DOOR MONITORING – PROVIDE ROUGH–IN ONLY. VERIFY EXACT LOCATION OF DEVICES WITH SECURITY CONTRACTOR.

DENOTES THE FOLLOWING:

CR	–	CARD READER
DB	–	DURESS BUTTON
DC	–	DOOR CONTACT
DP	–	DOOR POSITION INDICATOR SWITCH
ED	–	EXIT DEVICE
EL	–	ELECTROMAGNETIC LOCK
ES	–	ELECTRIC STRIKE
GB	–	GLASS BREAK DETECTOR
KE	–	KEYLESS ENTRY
KP	–	KEY PAD
KS	–	KEEPER SWITCH
ML	–	MAG–LOCK
MS	–	MOTION SENSOR
RM	–	REQUEST FOR EXIT – MOTION
PBR	–	PUSH BUTTON FOR RELEASE
PS	–	POWER SUPPLY

- SS CP — SECURITY SYSTEM PANEL

GENERAL

LIGHT LINE ———— EXISTING

DARK LINE ———— NEW

ABBREVIATIONS

A/E	–	ARCHITECT/ENGINEER
ABV	–	ABOVE
AF	–	AMP FUSE
AFF	–	ABOVE FINISHED FLOOR
ARCH	–	ARCHITECT
AFG	–	ABOVE FINAL GRADE
ALT SW	–	ALTERNATOR SWITCH
AS	–	AMP SWITCH
BKR	–	BREAKER
BFG	–	BELOW FINAL GRADE
BOL	–	BUILT–IN OVERLOAD PROTECTION
C	–	CONDUIT
CB	–	CIRCUIT BREAKER
CKT	–	CIRCUIT
CS	–	COMBINATION STARTER
CW	–	COLD WEATHER (PIR)
DN	–	DOWN
DS	–	DISCONNECT SWITCH
EC	–	ELECTRICAL CONTRACTOR
ELEV	–	ELEVATION
EM./EMG.	–	EMERGENCY
EMT	–	ELECTRICAL METALLIC TUBING
ENT	–	ELECTRICAL NON–METALLIC TUBING
ERL	–	EXISTING TO BE RELOCATED
ETR	–	EXISTING TO REMAIN
EWC	–	ELECTRIC WATER COOLER
EX	–	EXISTING
F	–	FURNISHED
FIXT	–	FIXTURE
F/K/A	–	FORMERLY KNOWN AS
FLUOR	–	FLUORESCENT
FS	–	FREEZE–STAT
GC	–	GENERAL CONTRACTOR
GRC	–	GALVANIZED RIGID CONDUIT
GRDG	–	GROUNDING
HOA	–	HAND–OFF–AUTO SELECTOR SWITCH
HP	–	HORSEPOWER
HVAC	–	HEATING, VENTILATING, AND AIR CONDITIONING CONTRACTOR
HW	–	HEAVY WALL
I	–	INSTALLED
IL	–	INTERLOCK
IMC	–	INTERMEDIATE METAL CONDUIT
IU	–	IN UNIT
JB	–	JUNCTION BOX
KW	–	KILOWATT
LOC	–	LOCATION
LTG	–	LIGHTING
LVT	–	LINE VOLTAGE THERMOSTAT
MAG	–	MAGNETIC STARTER
MAN	–	MANUAL STARTER
MCB	–	MAIN CIRCUIT BREAKER
MLO	–	MAIN LUGS ONLY
MNT	–	MOUNT
MSB	–	MAIN SWITCHBOARD
MTD	–	MOUNTED
NIC	–	NOT IN CONTRACT
NML	–	NORMAL
NU	–	NEAR UNIT
OC	–	ON CENTER
OU	–	ON UNIT
P	–	POLE
PB	–	PUSH–BUTTON
PEND	–	PENDANT
PE SW	–	PNEUMATIC ELECTRIC SWITCH
PLBG	–	PLUMBING CONTRACTOR
PNL	–	PANEL
R	–	RECEPTACLE
RAI	–	REMAIN AS IS
REL	–	RELOCATED
SURF	–	SURFACE
SW	–	SWITCH
SP SW	–	SPEED SWITCH
TC	–	TIME CLOCK
TCC	–	TEMPERATURE CONTROL CONTRACTOR
TO	–	TYPICAL OUTLET
TYP	–	TYPICAL
UO	–	UNIQUE OUTLET
VER	–	VERIFY
W	–	WIRED
WG	–	WIRE GUARD
WP	–	WEATHERPROOF
WW	–	WIREWAY
XFMR	–	TRANSFORMER

GENERAL PROJECT NOTES:

1. ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED BY ELEVATOR CONTRACTOR TO CONFORM WITH HIGH RISE REQUIREMENTS AND WORK INDICATED ON THE PLANS. WORK INCLUDES NEW STATUS PANEL FOR EMERGENCY POWER/FIREMAN'S EMERGENCY RETURN FEATURES AND RELATED WIRING, NEW TELEPHONE CABINETS IN ELEVATOR CABS (FOR FIREMAN'S PHONES) AND RELATED WIRING ON TRAVEL CABLE TO PENTHOUSE AND NEW FED K1 FIREMAN'S KEY IN EACH ELEVATOR AND LOBBY. CURRENT ELEVATOR MAINTENANCE CONTRACTOR IS SCHINDLER ELEVATOR, CONTACT MARQ BUEHLER PHONE: 262–317–4186.
3. THE TEMPORARY PLANS IN THIS SET ONLY INDICATES WORK NEEDED FOR THE OWNER. ANY TEMPORARY LIGHTING AND/OR POWER NEEDED FOR CONTRACTOR OPERATIONS SHALL BE PROVIDED AS NEEDED.
4. EXISTING LIGHT FIXTURES, RECEPTACLES, AV, TELECOM, ETC. IN AREAS OF WORK FOR NEW CHASES SHALL BE REMOVED AND/OR SUPPORTED AND REINSTALLED AS NEEDED. ANY DEVICES AND RACEWAYS SHALL BE REINSTALLED FLUSH IN NEW WALLS.
5. EXPOSED CONDUIT AND/OR GREENFIELD MAY BE USED FOR TEMPORARY WORK. SECURELY SUPPORT ACROSS WALLS AS NEEDED; SUPPORT FROM CEILING MAY NOT BE POSSIBLE DUE TO ASBESTOS ON ALL FLOORS EXCEPT SIXTH. TEMPORARY WORK SHALL NOT BE A HAZARD TO OCCUPANTS.
6. TELECOM WORK IS BY ELECTRICAL CONTRACTOR. COORDINATE REMOVALS, TEMPORARY AND REINSTALLATION AS NEEDED WITH OWNER.
7. LIGHT LINEWORK DENOTES EXISTING AND DARK LINEWORK DENOTES PROPOSED EQUIPMENT.
8. EXISTING CONDITIONS SHOWN ARE BASED ON SITE OBSERVATION AND ARE NOT GUARANTEED TO BE 100% ACCURATE. ALL FIELD CONDITIONS SHALL BE FIELD VERIFIED.
9. RE–LABEL RECEPTACLES AT BACKBOARDS ON ALL FLOORS PREVIOUSLY ON PANEL 'EB' TO NEW CKT. FROM PANEL 'LCA'.
10. CONTROL MODULES FOR PRESSURIZATION FAN VFD'S TO ACTIVATE WITH FIRE ALARM SYSTEM AND DEACTIVATE UPON RESPECTIVE AREA SMOKE DETECTION (OR NOT IN USE). COORDINATE ALL CONTROL WIRING FOR PRESSURIZATION SYSTEM WITH INSTALLER, MOTORIZED DAMPER POWER DERIVED FROM VFD.
11. COORDINATE CONNECTION TRANSITION FROM EXISTING FIRE PUMP & JOCKEY PUMP TO NEW PUMPS TO MINIMIZE DOWNTIME, NOT TO EXCEED TIME FIRE PROTECTION CONTRACTOR REQUIRES.
12. ADJUST LOCATIONS OF ELECTRICAL DEVICES AS NEEDED UPON REINSTALLATION TO ACCOMMODATE LOCATION OF PIPING CHASES. VERIFY LOCATIONS WITH OWNER PRIOR TO REINSTALLATION OF DEVICES.
13. COORDINATE WORK WITH GC, OTHER TRADES, OWNER'S ASBESTOS AND AV CONTRACTORS.
14. THE FLOOR SLABS ARE DESIGNED WITH CAVATIES FOR TELEPHONE, DATA AND POWER IN A NORTH/SOUTH DIRECTION APPROXIMATELY 4' O/C AND SERVED EAST/WEST BY TRENCH HEADER TROUGHS AS INDICATED ON PLANS.
15. FLOOR BOXES ARE "DOGHOUSE" STYLE TO MATCH EXISTING.
16. CHASES/FLOOR OPENINGS ARE AVAILABLE IN ELECTRICAL/TELECOM ROOMS FOR VERTICAL RISERS.
17. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL SYSTEMS BEING COORDINATED, INSTALLED, WITNESS TESTED AND CERTIFIED – THIS INCLUDES, BUT NOT LIMITED TO FIRE RECALL ELEVATOR SEQUENCING, STAND–BY GENERATOR SEQUENCING AND REMOTE OPERATION, AUTOMATIC AND MANUAL PRESSURIZATION OF STAIRWELLS AND CHASES, FIRE PUMP OPERATION AND COMPLETE FIRE ALARM SYSTEM OPERATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WITNESS TESTING WITH DNS, FIRE MARSHALL AND END USER. A WRITTEN REPORT WITH ALL FINDINGS, CONCLUSIONS AND REMEDIES (IF APPROPRIATE) SHALL BE PROVIDED TO THE ENGINEER, ARCHITECT AND END USER. COMPLETE OPERATION IS REQUIRED PRIOR TO FINAL PAYMENT.

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

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ELECTRICAL SYMBOLS AND ABBREVIATIONS

E000

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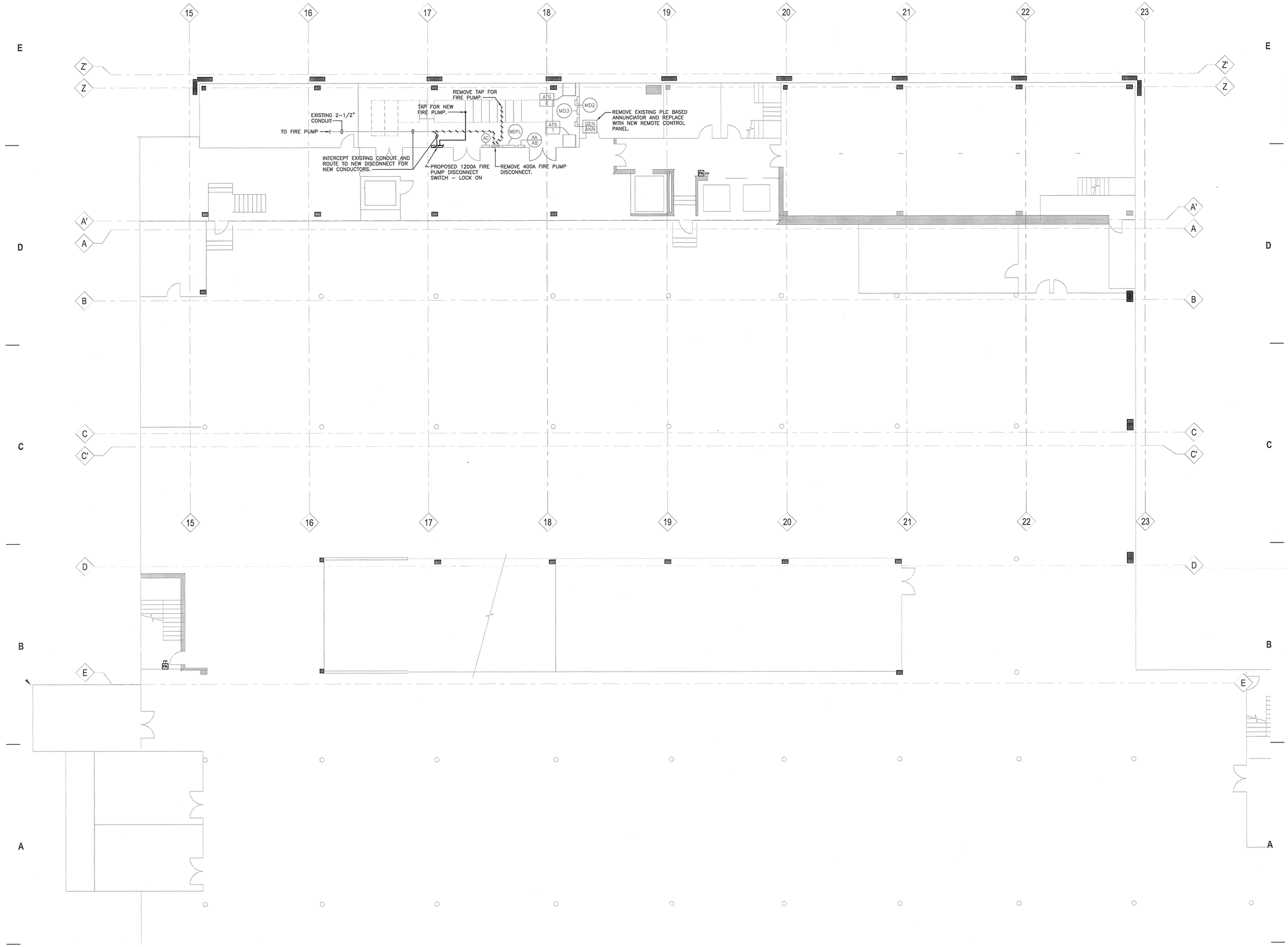

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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SUB BASEMENT ELECTRICAL PLAN

E100A

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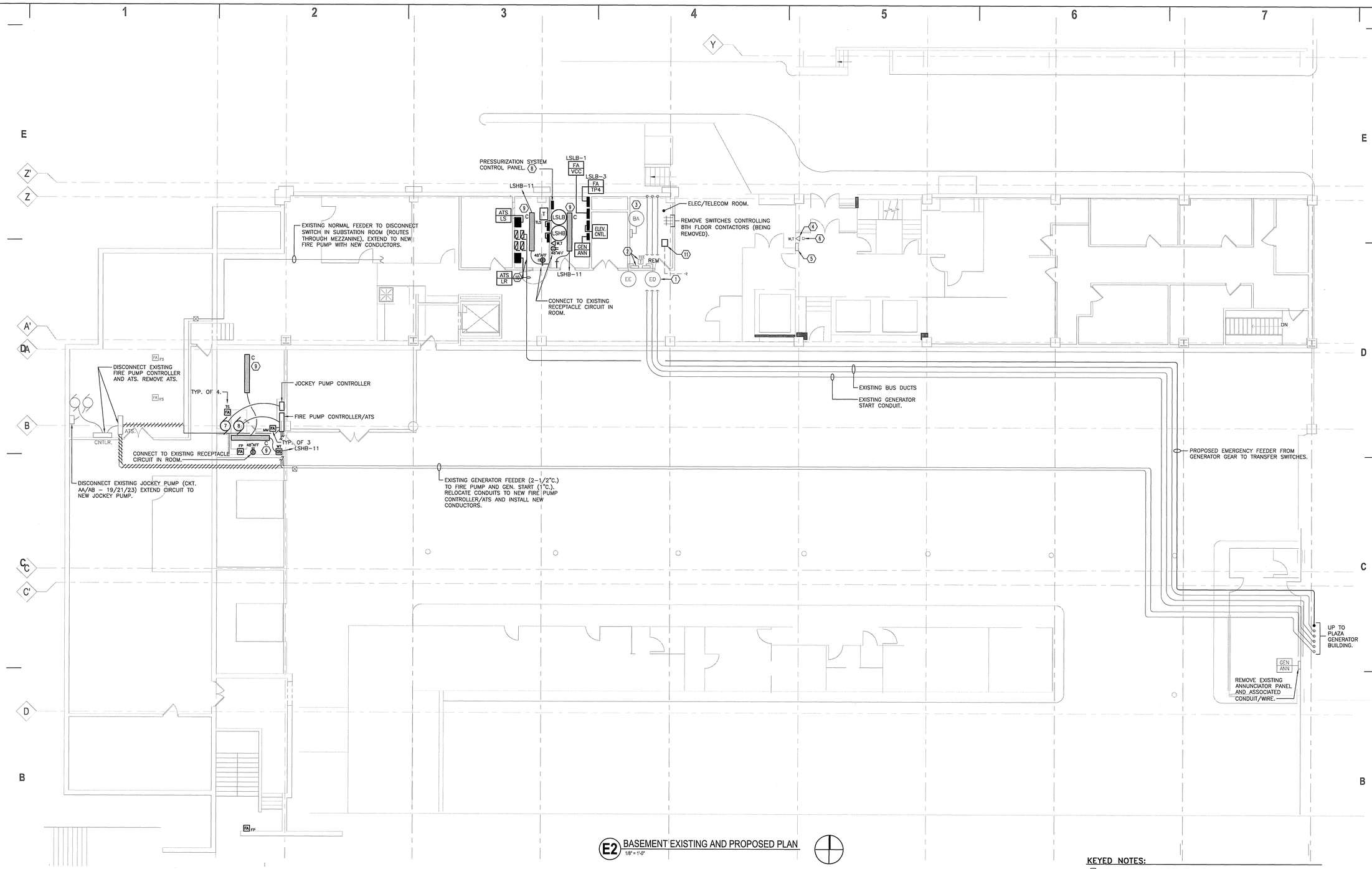
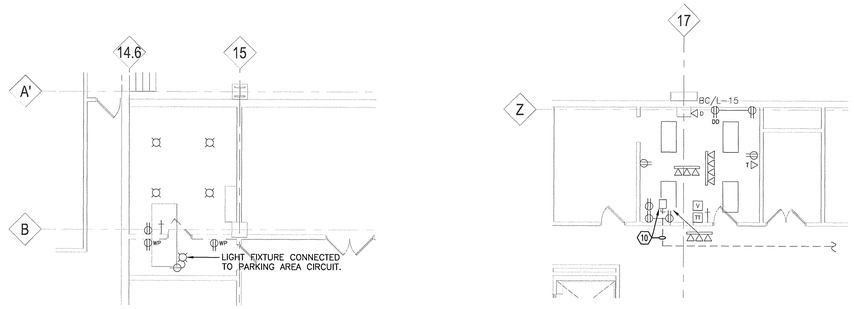


E2 BASEMENT EXISTING AND PROPOSED PLAN
1/8" = 1'-0"



E1 BASEMENT WEST DEMOLITION PLANS
1/8" = 1'-0"

KEYED NOTES:

1. RELOCATE (2) 20A/1P CIRCUITS (CKTs 1 & 3) TO PANEL LSHB.
2. PANEL 'EE' AND TRANSFORMER 'TEE' TO BE DISCONNECTED FROM PANEL 'ED'. RECONNECT TO PANEL 'BA'. RE-LABEL PANEL AND TRANSFORMER TO 'BB' & 'TBB' RESPECTIVELY. RE-PAINT PANEL COVER FROM RED TO GRAY.
3. ADD 20A/3P CB IN EXISTING GE PANEL FOR NEW FEEDER TO TRANSFORMER 'TBB'. A CB FROM REMOVED PANEL 'ED' MAY BE USED.
4. RELOCATE WALL PHONE TO NEW FCC ROOM.
5. REMOVE EXISTING ELEVATOR ANNUNCIATOR/FIRE ALARM ANNUNCIATOR. PROVIDE BLANK ALUMINUM COVER AND PAINT TO MATCH WALL.
6. RELOCATE LOCKBOX TO FCC ROOM.
7. RECONNECT RELOCATED FLOW SWITCH TO FIRE ALARM SYSTEM.
8. COORDINATE WIRING TO VFDs AND PRESSURIZATION SENSORS. SIMPLEX TO FURNISH (2) 24PT I/O CARDS (#4100-7401) TO CONTROL PANEL MANUFACTURER.
9. PROVIDE UNSWITCHED CIRCUIT LEG TO BATTERY FOR OPERATION UPON LOSS OF POWER.
10. TWO VIDEO WORKSTATIONS AND EIGHT ASSOCIATED ETHERNET CABLES TO BE RELOCATED/RE-ROUTED TO ELEC/TELECOM ROO TO THE EAST AS INDICATED.
11. RELOCATED VIDEO WORKSTATIONS IN NEW DATA CABINET (BY OWNER) AND ELECTRICAL (BY OWNER).

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7394

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering,Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

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BASEMENT ELECTRICAL PLAN

E100

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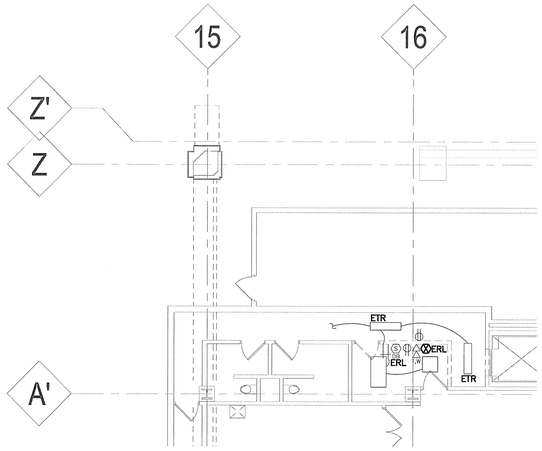
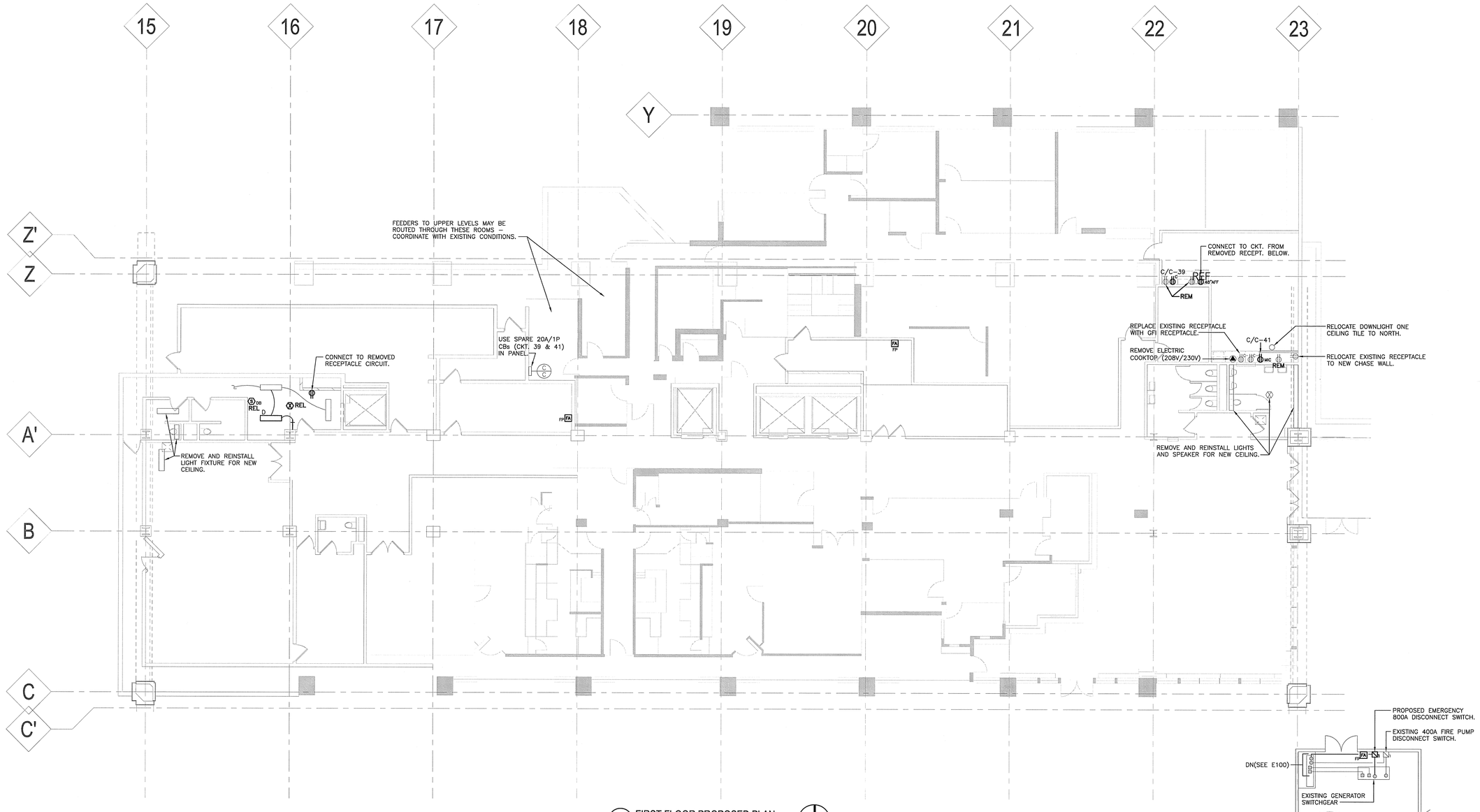


E2 FIRST FLOOR WEST DEMOLITION PLAN
1/8" = 1'-0"



E1 FIRST FLOOR PROPOSED PLAN
1/8" = 1'-0"

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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FIRST FLOOR ELECTRICAL PLAN

E101

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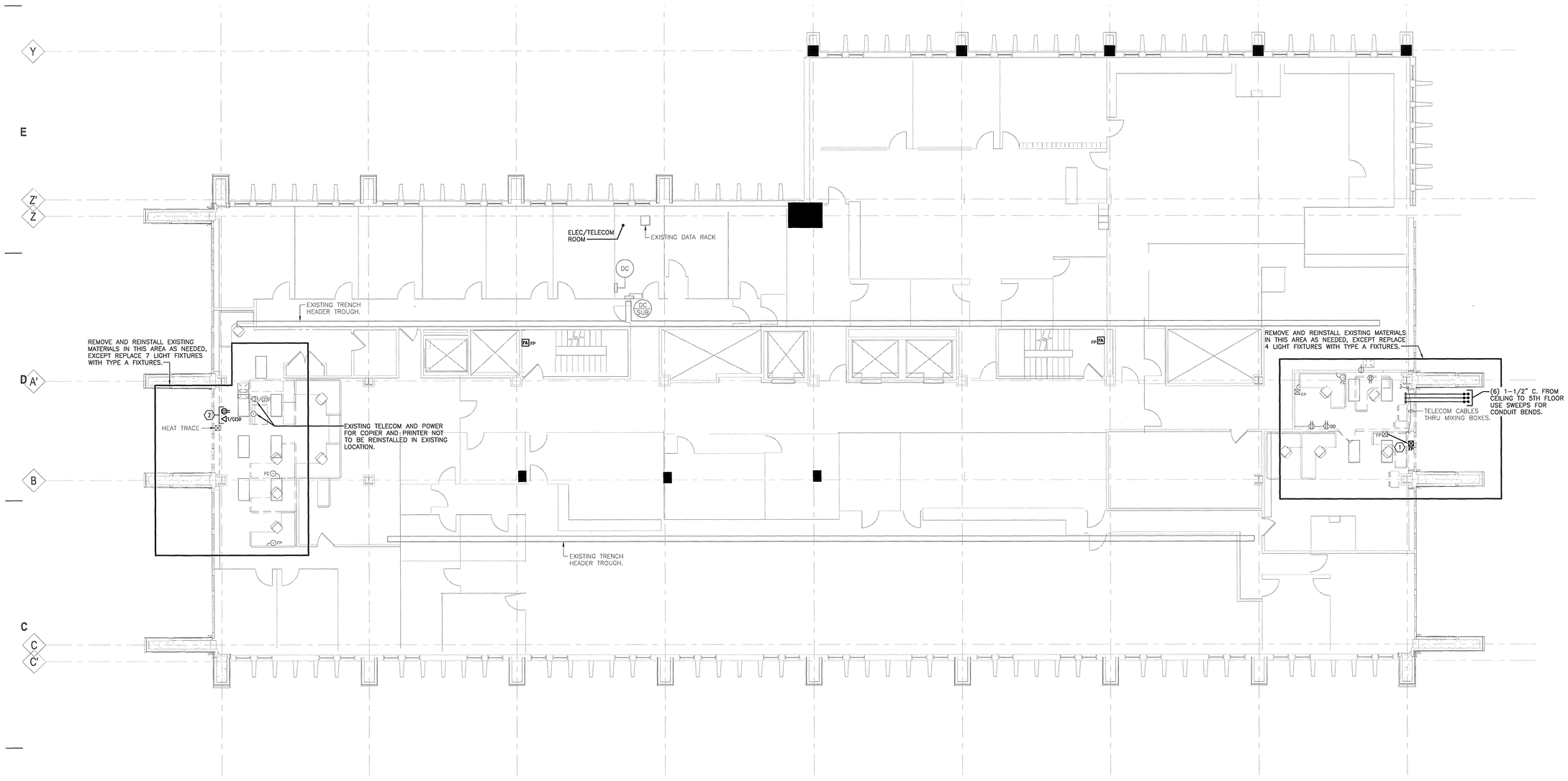
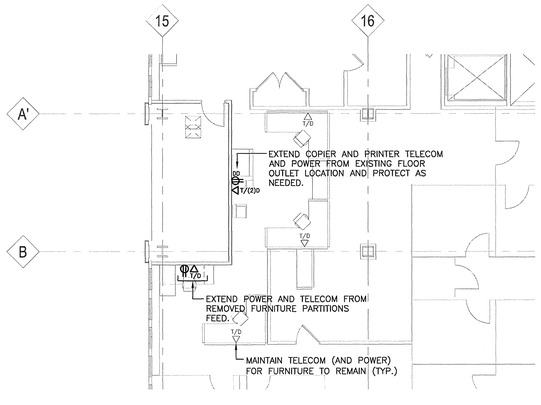


E1 SECOND FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"

KEYED NOTES:

1. RELOCATE FURNITURE POWER TO NEW WALL
2. PERMANENT LOCATION OF TELECOM AND POWER FOR COPIER AND PRINTER – EXTEND/REPLACE CABLES TO THIS LOCATION.



E2 SECOND FLOOR WEST TEMPORARY PLAN
1/8" = 1'-0"

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milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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SECOND FLOOR ELECTRICAL PLAN

E102

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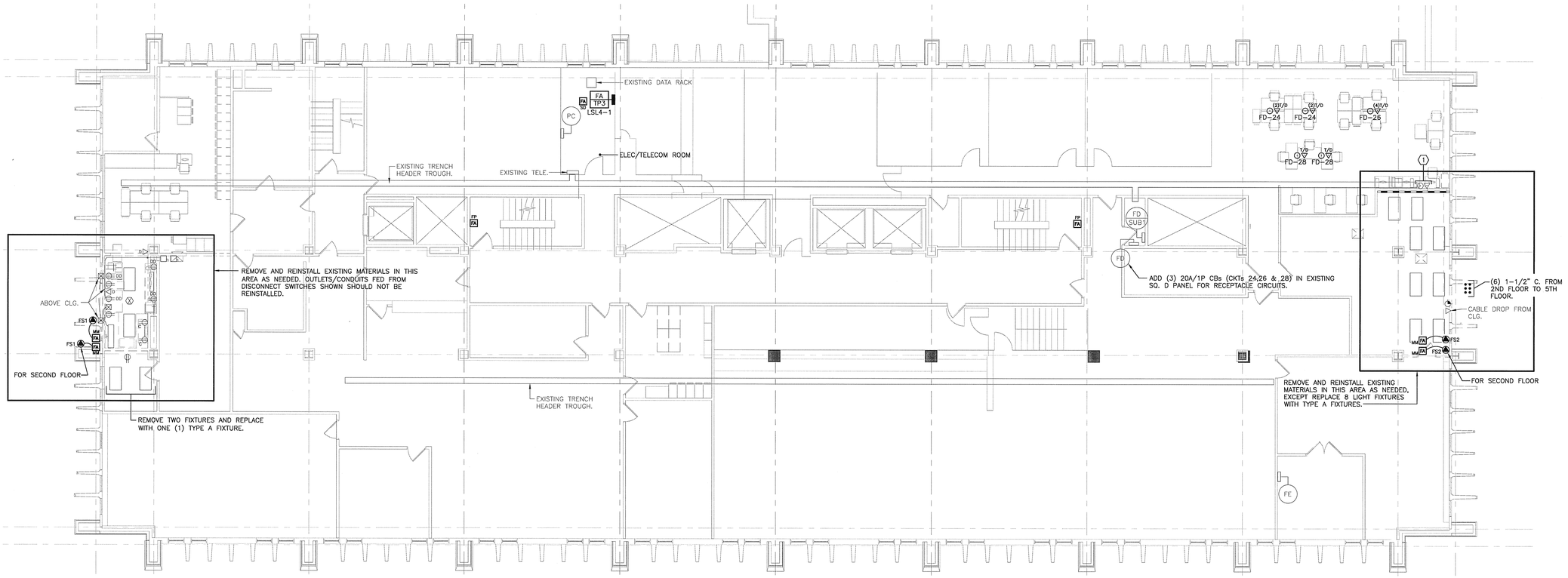
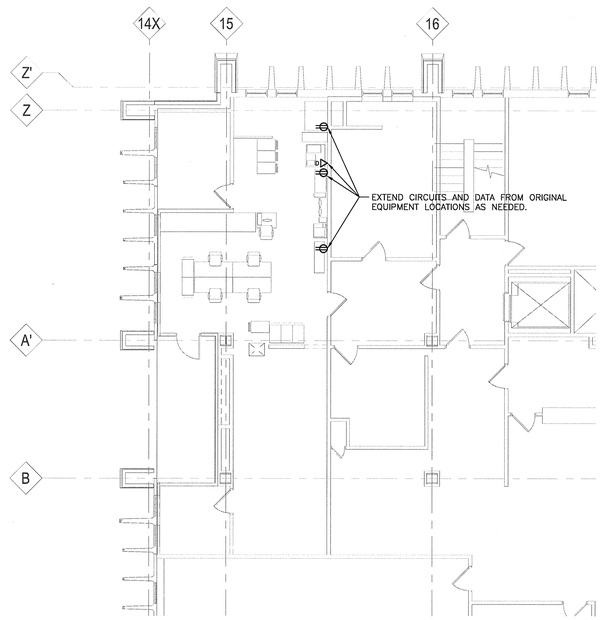


E1 THIRD FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"

KEYED NOTES:

1. EXISTING POWER AND TELECOM FLOOR BOXES NOT TO BE REINSTALLED. PROVIDE 8' OF G4000 WIREMOLD ON WALL WITH TWO DUPLEX RECEPTACLES, A TELE/DATA OUTLET AND DOUBLE TELEPHONE OUTLET (SPACE PER OWNER). REUSE ELECTRICAL CIRCUIT AND PROVIDE NEW TELECOM CABLING.



E2 THIRD FLOOR WEST TEMPORARY PLAN
1/8" = 1'-0"

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milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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THIRD FLOOR ELECTRICAL PLAN

E103

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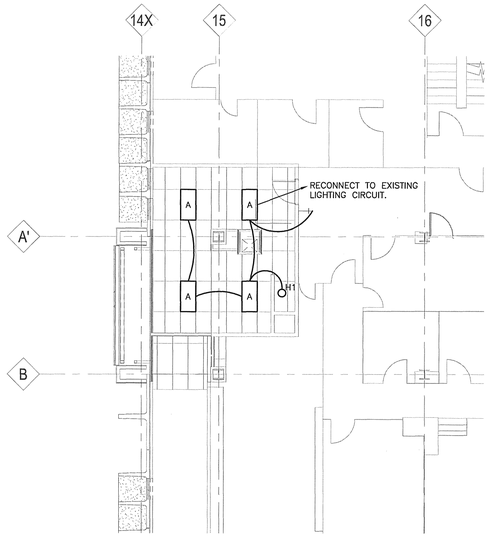
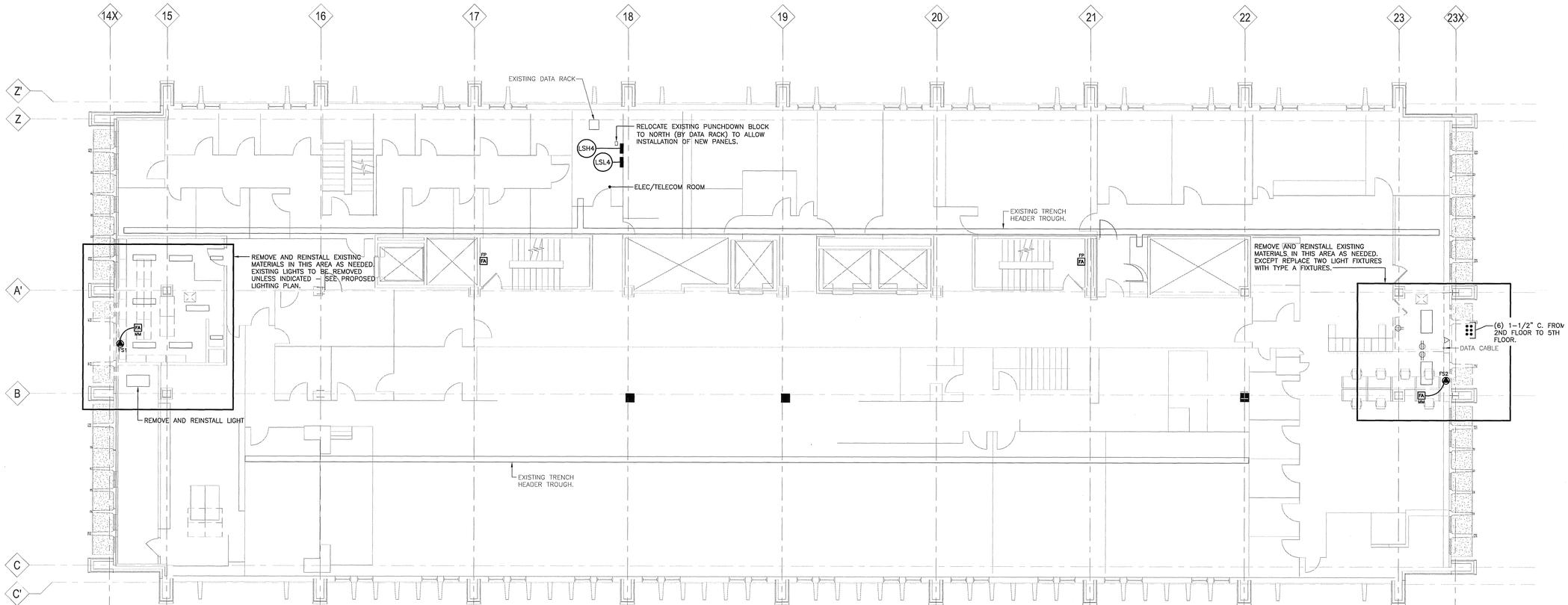


E1 FOURTH FLOOR PROPOSED LIGHTING PLAN
1/8" = 1'-0"



E2 FOURTH FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"

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milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering,Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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FOURTH FLOOR ELECTRICAL PLAN

E104

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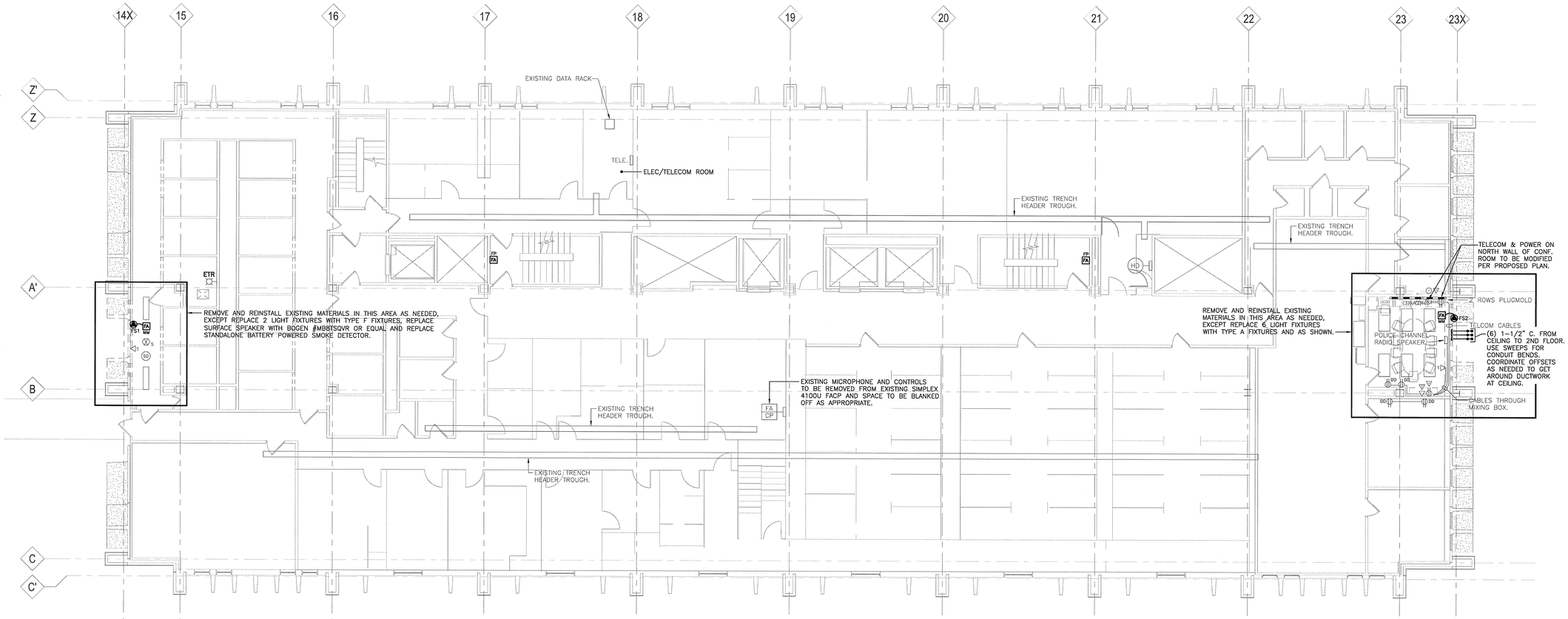
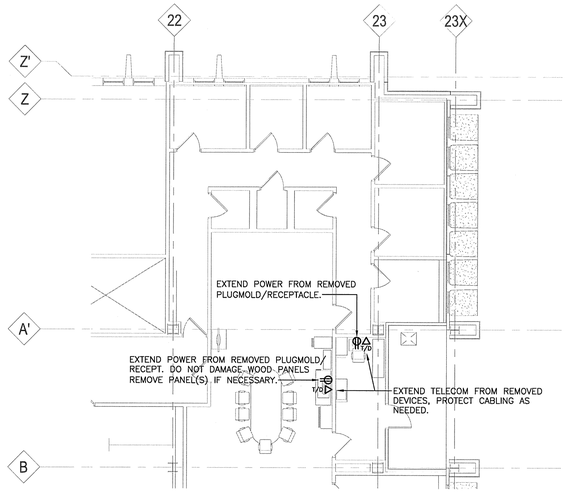
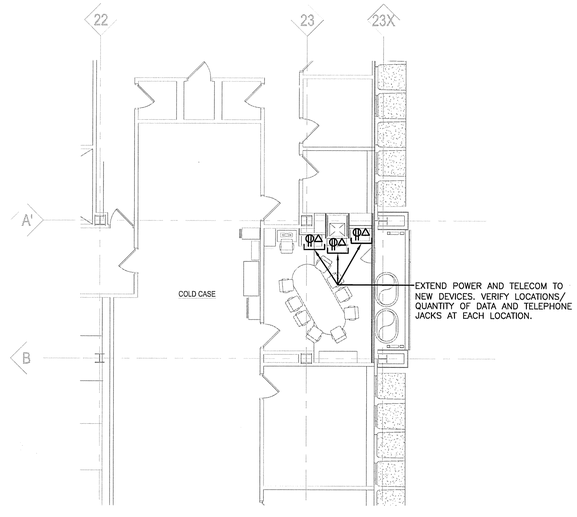


E1 FIFTH FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"



E2 FIFTH FLOOR EAST TEMPORARY PLAN
1/8" = 1'-0"



E3 FIFTH FLOOR EAST PROPOSED CONF. ROOM NORTH WALL POWER AND SYSTEMS PLAN PLAN
1/8" = 1'-0"

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eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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FIFTH FLOOR ELECTRICAL PLAN

E105

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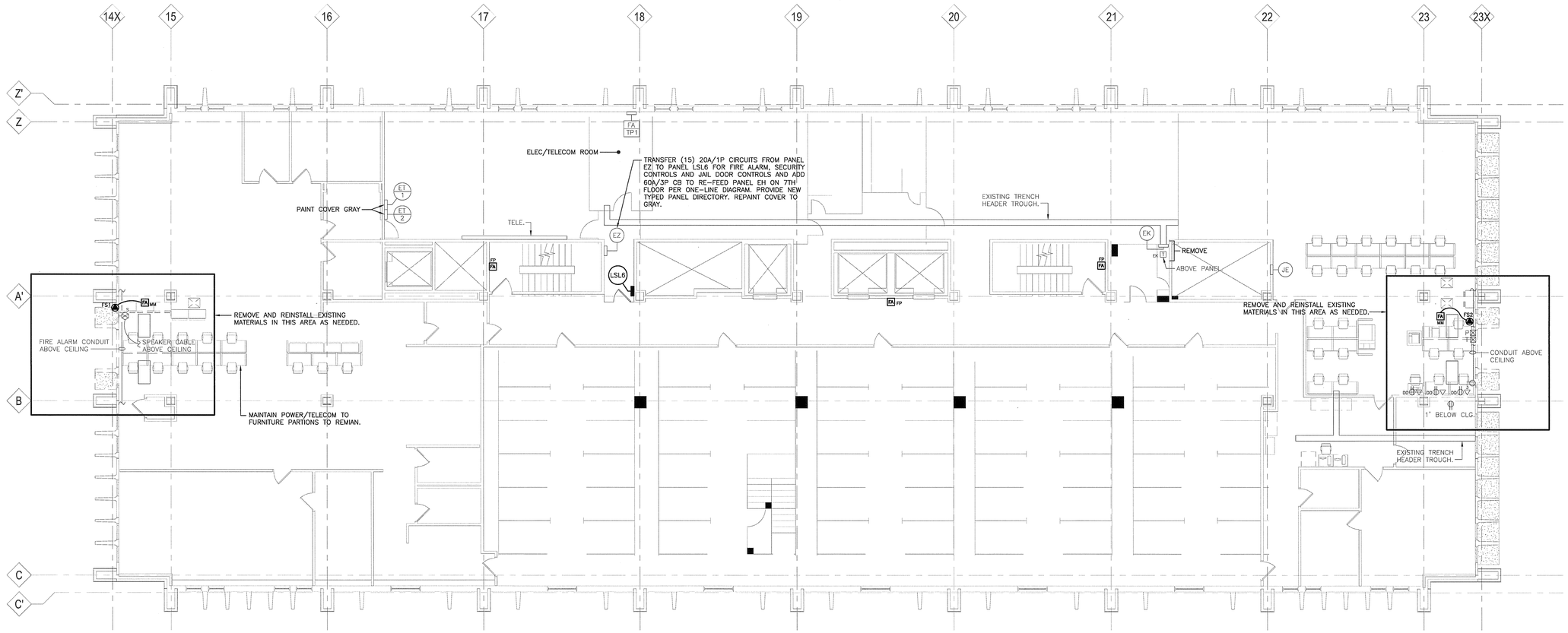
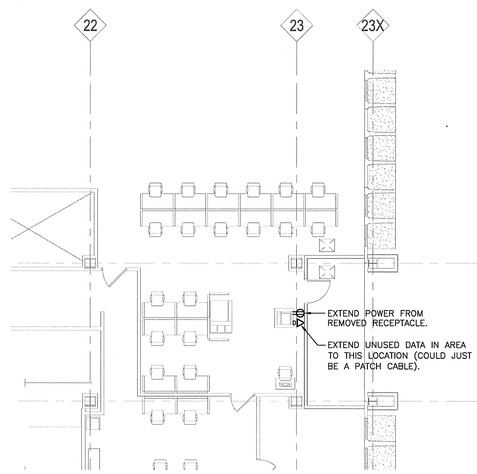


E1 SIXTH FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"



E2 SIXTH FLOOR EAST TEMPORARY PLAN
1/8" = 1'-0"

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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SIXTH FLOOR ELECTRICAL PLAN

E106

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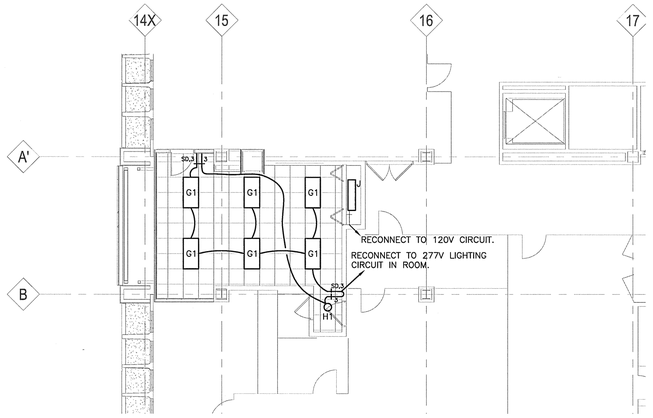
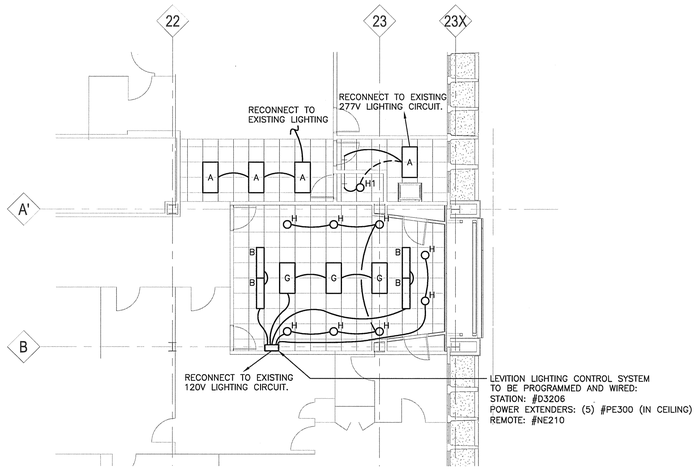
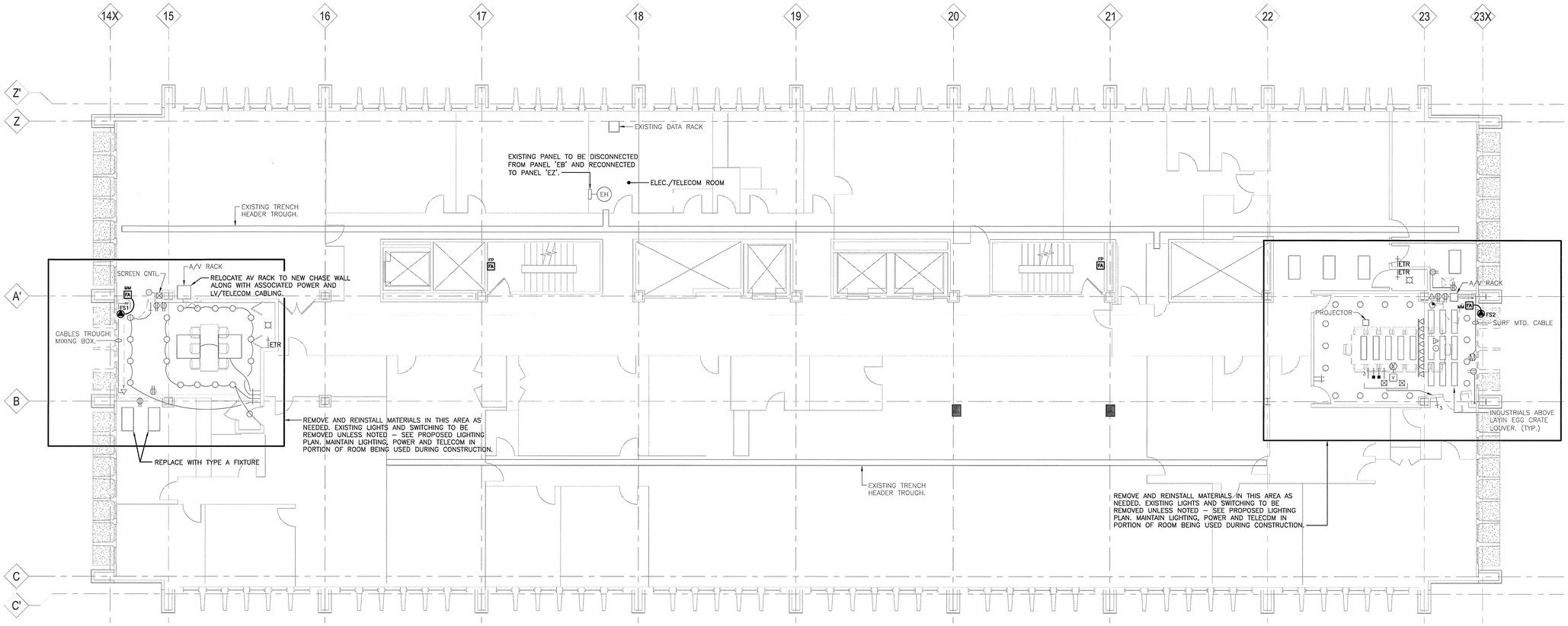


E2 PROPOSED SEVENTH FLOOR WEST LIGHTING PLAN
1/8" = 1'-0"



E3 PROPOSED SEVENTH FLOOR EAST LIGHTING PLAN
1/8" = 1'-0"



E1 SEVENTH FLOOR EXISTING AND PROPOSED PLAN
1/8" = 1'-0"

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Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave. Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

Powrtek Engineering,Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	GWS
PROJECT NUMBER	310077-01
DATE	04/02/2012

SEVENTH FLOOR ELECTRICAL PLAN

E107

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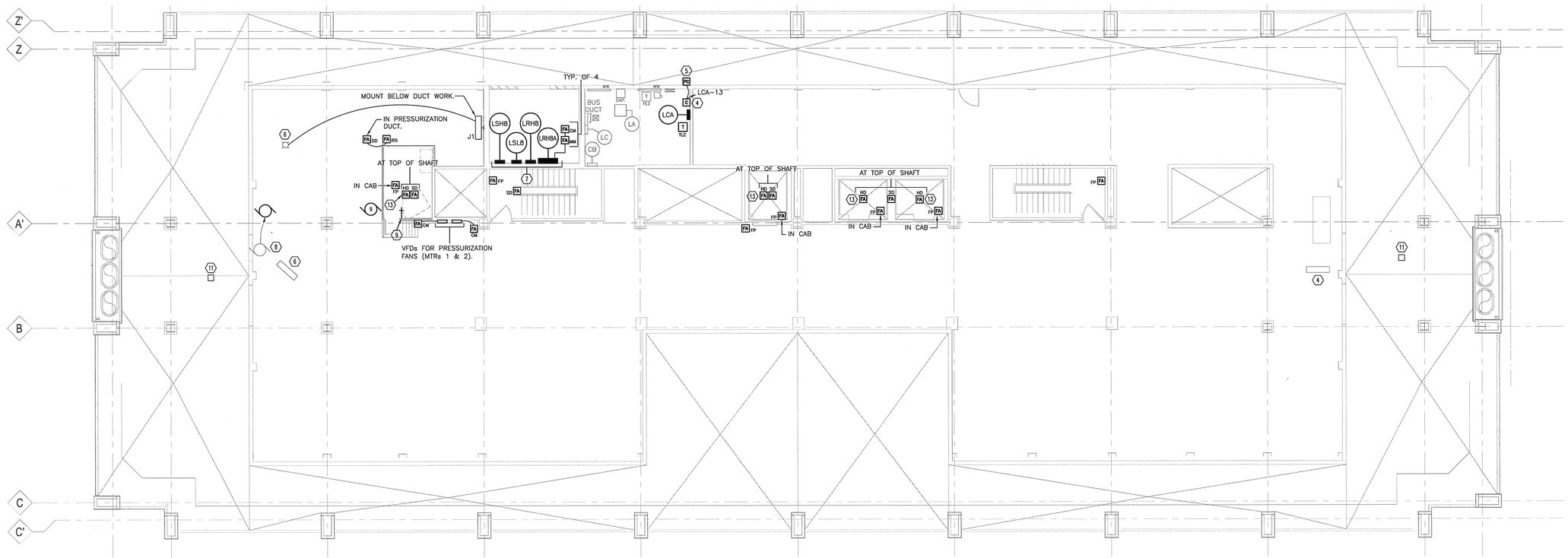
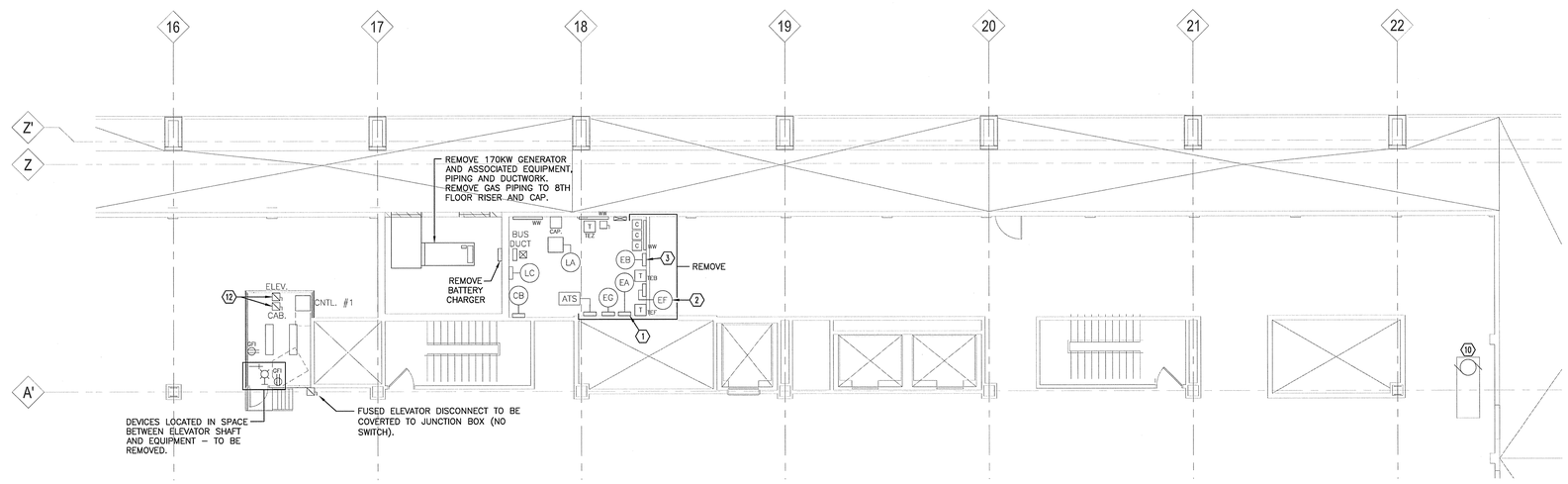


E1 EIGHTH FLOOR PROPOSED PLAN

1/8" = 1'-0"



E2 EIGHTH FLOOR EXISTING PLAN

1/8" = 1'-0"

KEYED NOTES:

1. TRANSFER (14) 20A/1P EMERGENCY LTG. CIRCUITS TO PANEL 'LSHB'. TRANSFER 20A/3P ELEV. 3 PHASE CNTL. CIRCUIT AND 30A/3P PENTHOUSE AC CIRCUIT TO 'LRHB'.
2. TRANSFER (5) 20A/1P EMERGENCY LTG. CIRCUITS (CKTs. 1,2,3,6 & 11) TO PANEL 'LSLB'. TRANSFER (2) 20A/1P OUTLET & HTR CIRCUITS (CKTs 5 & 9) TO PANEL 'LCA'.
3. TRANSFER (9) 20A/1P ALARM AND ELEVATOR CIRCUITS (CKTs 5,8,9,13,22,24,26,28 & 30). TO PANEL 'LSLB'. TRANSFER (6) 20A/1P OUTLET AND TEMP. CNTL. CIRCUITS (CKTs 1,2,3,4,6 & 20) TO PANEL 'LCA'.
4. PROPOSED 30A/4P ELECTRICALLY HELD CONTACTOR IN NEMA 1 ENCLOSURE WITH H–O–A SWITCH. ROUTE SIGNAGE CIRCUITS THROUGH CONTACTOR.
5. PROPOSED BUTTON TYPE PHOTOCELL IN WEATHERPROOF ALUMINUM BOX – AIM NORTH.
6. RELOCATE EXISTING LIGHT TO BELOW NEW DUCT WORK.
7. PROVIDE UNISTRUT SUPPORTS AS NEEDED SO EQUIPMENT IS INSTALLED IN FRONT OF PIPING (RAN ALONG WALL).
8. RELOCATE/EXTEND CIRCUIT FOR RELOCATED EF–14 (1/2HP, 480V, 3ø).
9. ADD SWITCH TO CONTROL LIGHT FIXTURES IN CREATED ELEVATOR EQUIPMENT ROOM.
10. DISCONNECT AND REMOVED FEEDERS ASSOCIATED WITH ABANDONED CHILLER AND ASSOCIATED PUMPS BEING REMOVED.
11. REMOVE AND REINSTALL LIGHT FIXTURE DUE TO CEILING (SOFFIT) REMOVAL/REPLACEMENT.
12. REPLACE EXISTING 30A (CAB) AND 60A (ELEV.) DISCONNECT SWITCHES WITH FUSED DISCONNECT SWITCHES.
13. LEAVE CABLE AND BLANKED BOX FOR FUTURE HEAT DETECTOR WHEN SPRINKLERS INSTALLED.

eu:a

eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

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20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
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EIGHTH FLOOR ELECTRICAL PLAN

E108

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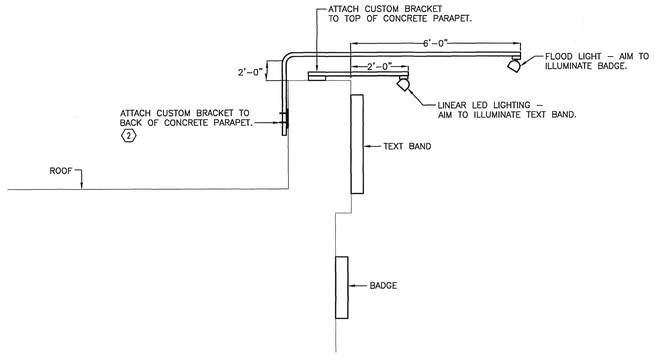
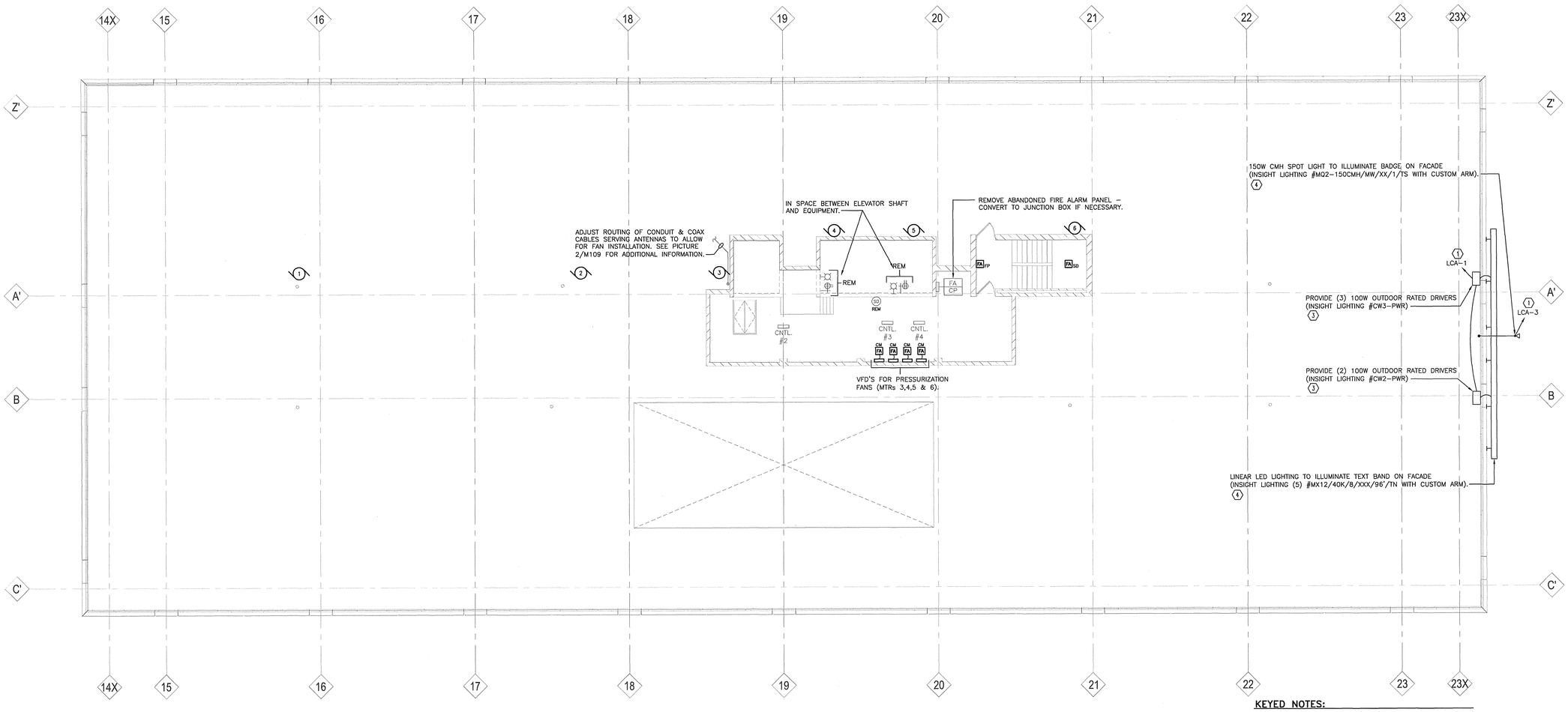


E1 SIGN LIGHT DETAIL
NO SCALE



E2 PENTHOUSE EXISTING AND PROPOSED PLAN
1/8" = 1'-0"

KEYED NOTES:

1. ROUTE CIRCUIT THROUGH CONTACTOR.
2. BRACKET SHALL BE DESIGNED TO ALLOW ROTATION SO FIXTURE CAN BE RELAMPED AT ROOF.
3. ONE DRIVER SERVES EACH 8' SECTION OF LINEAR LED.
4. MANUFACTURER AND/OR CONTRACTOR TO FURNISH CUSTOM ARMS (PAINTED ALUMINUM OR GALVANIZED STEEL) TO ACHIEVE REQUIRED MOUNTING PER DETAIL – SUBMIT WITH FIXTURE SHOP DRAWINGS.

eu:a
eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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PENTHOUSE FLOOR ELECTRICAL PLAN

E109

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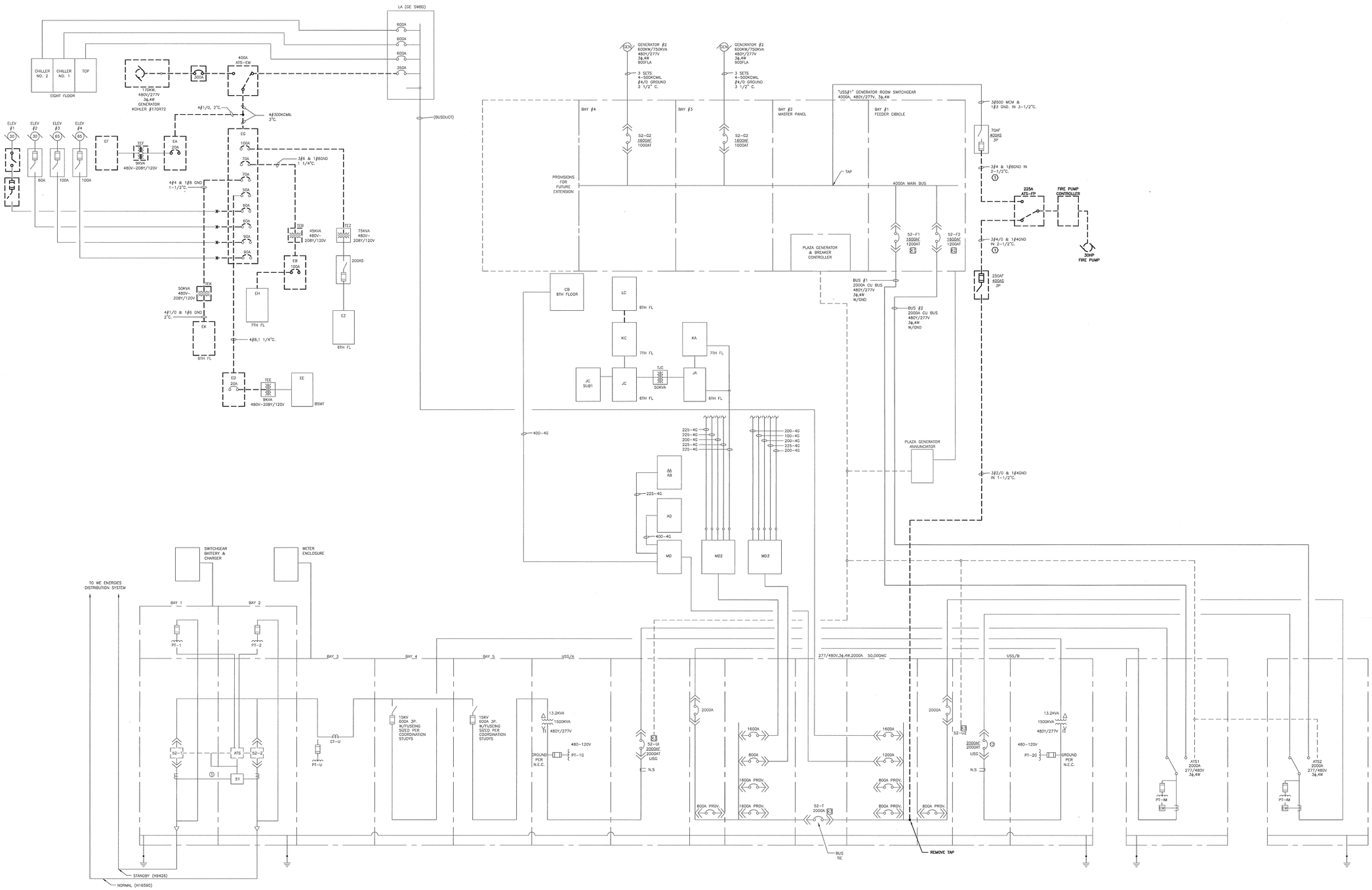

KEYED NOTES:

1. REMOVE CONDUCTORS FROM EXISTING CONDUIT, CONDUIT TO BE REUSED FOR NEW FEEDER.

LEGEND

- EXISTING TO BE REMOVED
- EQUIPMENT ENCLOSURE
- LOW VOLTAGE
- CONTROL/INTERLOCKS

E1 PARTIAL EXISTING ONE-LINE DIAGRAM
N.T.S.

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eppstein uhen : architects

milwaukee 333 East Chicago Street
Milwaukee, Wisconsin 53202
tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650
Madison, Wisconsin 53703
tel 608 442 5350 fax 608 442 6680

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WAUKESHA, WI 53186
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DATE	04/02/2012

PARTIAL EXISTING ONE-LINE DIAGRAM

E500

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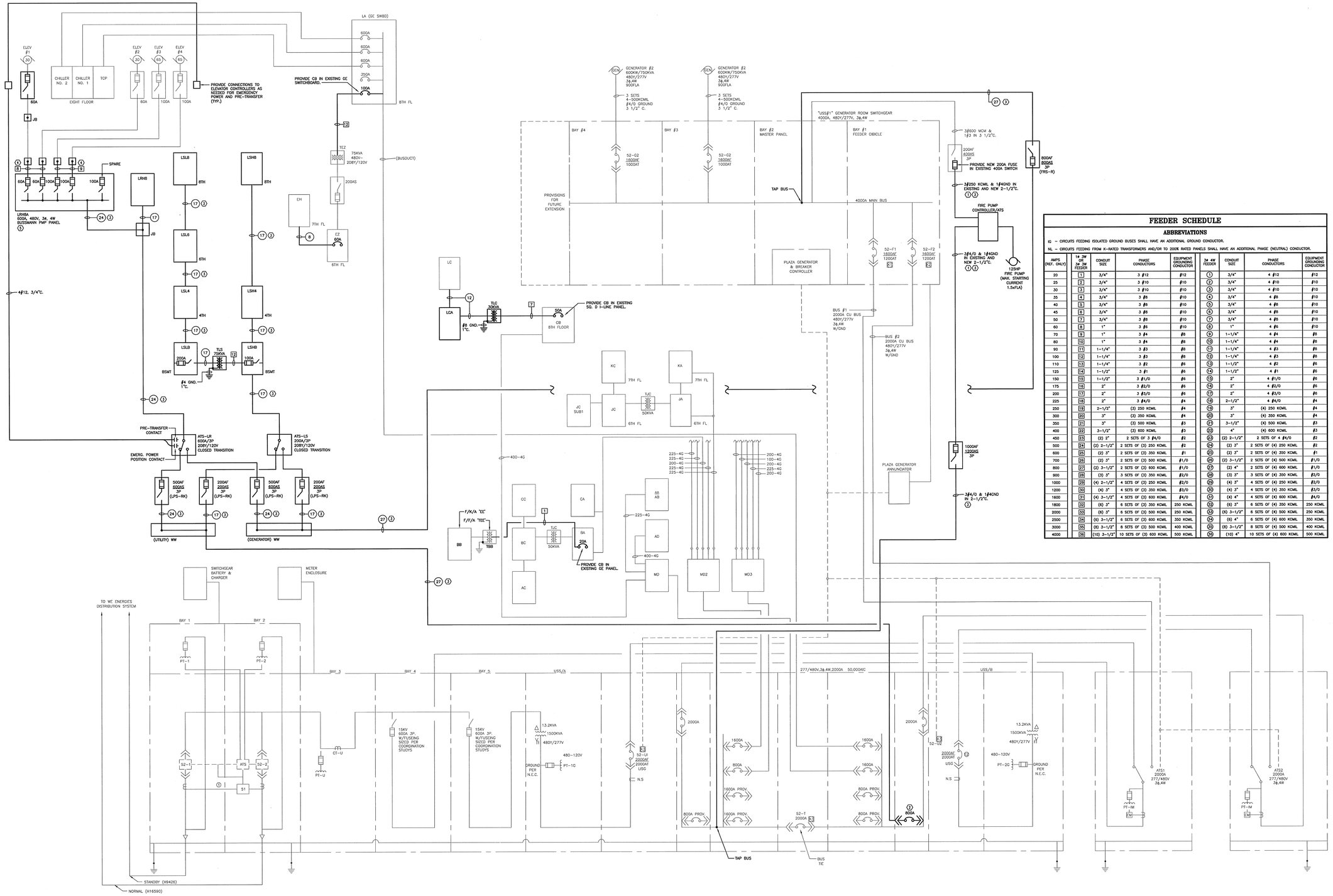

FEEDER SCHEDULE

ABBREVIATIONS

IG – CIRCUITS FEEDING ISOLATED GROUND BUSES SHALL HAVE AN ADDITIONAL GROUND CONDUCTOR.

NL – CIRCUITS FEEDING FROM K-RATED TRANSFORMERS AND/OR TO 200% RATED PANELS SHALL HAVE AN ADDITIONAL PHASE (NEUTRAL) CONDUCTOR.

AMPS (REF. ONLY)	1ϕ 3W OR 3ϕ 3W FEEDER	CONDUIT SIZE	PHASE CONDUCTORS	EQUIPMENT GROUNDING CONDUCTOR	3ϕ 4W FEEDER	CONDUIT SIZE	PHASE CONDUCTORS	EQUIPMENT GROUNDING CONDUCTOR
20	1	3/4"	3 #12	#12	1	3/4"	4 #12	#12
25	2	3/4"	3 #10	#10	2	3/4"	4 #10	#10
30	3	3/4"	3 #10	#10	3	3/4"	4 #10	#10
35	4	3/4"	3 #8	#10	4	3/4"	4 #8	#10
40	5	3/4"	3 #8	#10	5	3/4"	4 #8	#10
45	6	3/4"	3 #8	#10	6	3/4"	4 #8	#10
50	7	3/4"	3 #8	#10	7	3/4"	4 #8	#10
60	8	1"	3 #6	#10	8	1"	4 #6	#10
70	9	1"	3 #4	#8	9	1-1/4"	4 #4	#8
80	10	1"	3 #4	#8	10	1-1/4"	4 #4	#8
90	11	1-1/4"	3 #3	#8	11	1-1/4"	4 #3	#8
100	12	1-1/4"	3 #3	#8	12	1-1/4"	4 #3	#8
110	13	1-1/4"	3 #2	#6	13	1-1/2"	4 #2	#8
125	14	1-1/2"	3 #1	#6	14	1-1/2"	4 #1	#6
150	15	1-1/2"	3 #1/0	#6	15	2"	4 #1/0	#6
175	16	2"	3 #2/0	#6	16	2"	4 #2/0	#6
200	17	2"	3 #3/0	#6	17	2"	4 #3/0	#6
225	18	2"	3 #4/0	#4	18	2-1/2"	4 #4/0	#4
250	19	2-1/2"	(3) 250 KCMIL	#4	19	3"	(4) 250 KCMIL	#4
300	20	3"	(3) 350 KCMIL	#4	20	3"	(4) 350 KCMIL	#4
350	21	3"	(3) 500 KCMIL	#3	21	3-1/2"	(4) 500 KCMIL	#3
400	22	3-1/2"	(3) 600 KCMIL	#3	22	4"	(4) 600 KCMIL	#3
450	23	(2) 2"	2 SETS OF 3 #4/0	#2	23	(2) 2-1/2"	2 SETS OF 4 #4/0	#2
500	24	(2) 2-1/2"	2 SETS OF (3) 250 KCMIL	#2	24	(2) 3"	2 SETS OF (4) 250 KCMIL	#2
600	25	(2) 3"	2 SETS OF (3) 350 KCMIL	#1	25	(2) 3"	2 SETS OF (4) 350 KCMIL	#1
700	26	(2) 3"	2 SETS OF (3) 500 KCMIL	#1/0	26	(2) 3-1/2"	2 SETS OF (4) 500 KCMIL	#1/0
800	27	(2) 3-1/2"	2 SETS OF (3) 600 KCMIL	#1/0	27	(2) 4"	2 SETS OF (4) 600 KCMIL	#1/0
900	28	(3) 3"	3 SETS OF (3) 350 KCMIL	#2/0	28	(3) 3"	3 SETS OF (4) 350 KCMIL	#2/0
1000	29	(4) 2-1/2"	4 SETS OF (3) 250 KCMIL	#2/0	29	(4) 3"	4 SETS OF (4) 250 KCMIL	#2/0
1200	30	(4) 3"	4 SETS OF (3) 350 KCMIL	#3/0	30	(4) 3"	4 SETS OF (4) 350 KCMIL	#3/0
1600	31	(4) 3-1/2"	4 SETS OF (3) 600 KCMIL	#4/0	31	(4) 4"	4 SETS OF (4) 600 KCMIL	#4/0
1800	32	(6) 3"	6 SETS OF (3) 350 KCMIL	250 KCMIL	32	(6) 3"	6 SETS OF (4) 350 KCMIL	250 KCMIL
2000	33	(6) 3"	6 SETS OF (3) 500 KCMIL	250 KCMIL	33	(6) 3-1/2"	6 SETS OF (4) 500 KCMIL	250 KCMIL
2500	34	(6) 3-1/2"	6 SETS OF (3) 600 KCMIL	350 KCMIL	34	(6) 4"	6 SETS OF (4) 600 KCMIL	350 KCMIL
3000	35	(8) 3-1/2"	8 SETS OF (3) 500 KCMIL	400 KCMIL	35	(8) 3-1/2"	8 SETS OF (4) 500 KCMIL	400 KCMIL
4000	36	(10) 3-1/2"	10 SETS OF (3) 600 KCMIL	500 KCMIL	36	(10) 4"	10 SETS OF (4) 600 KCMIL	500 KCMIL

KEYED NOTES:

1. EXISTING CONDUIT TO BE REUSED FOR NEW FEEDER AND MODIFIED/EXTENDED AS NEEDED.
2. INSTALL DRAW-OUT CB (SQ. D NW MASTERPACK) IN SPACE. COORDINATE CIRCUIT BREAKER SETTINGS WITH FUSES. MANUFACTURER TO PROVIDE SETTINGS TO ELECTRICAL CONTRACTOR.
3. 2-HOUR RATED CONDUCTORS (LIFELINE RHW).
4. VERIFY AND MATCH EXISTING CONDUCTOR/CONDUIT SIZE.
5. PROVIDE QUANTITY AND RATING OF SWITCHES AS INDICATED. WIRE TO FIRE ALARM CONTROL AND MONITOR MODULES FOR SHUNT TRIP CONTROL AND MONITORING. EACH SWITCH TO INCLUDE CONTROL TRANSFORMER, FIRE SAFETY INTERFACE RELAY, KEY TO TEST SWITCH, GREEN "ON" PILOT LIGHT AND FIRE ALARM VOLTAGE MONITORING RELAY. VERIFY FUSE SIZE WITH EXISTING CONDITIONS. FUSES ARE LPS-RK TYPE.

GENERAL NOTES:

1. FUSING FOR LIFE SAFETY AND LEGALLY REQUIRED SYSTEMS IS BASED ON BUSSMANN CLASS J FUSES (LOW-PEAK LPS-RK AND CUBEFUSE TCF AND CLASS RK5 (FUSETRON FRS-R)) REQUIRING 2:1 SELECTIVITY RATIO PER BUSSMANN SELECTIVITY RATIO GUIDE.

LEGEND

- PROPOSED
- EQUIPMENT ENCLOSURE
- FUTURE
- EXISTING LOW VOLTAGE
- EXISTING CONTROL/INTERLOCKS

E1 PARTIAL PROPOSED ONE-LINE DIAGRAM
N.T.S.

eu:a

eppstein uhen : architects

milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794

madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

Powrtek Engineering, Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

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KEY PLAN

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PROJECT MANAGER	GWS
PROJECT NUMBER	3100777-01
DATE	04/02/2012

PARTIAL PROPOSED EXISTING ONE-LINE DIAGRAM

E501

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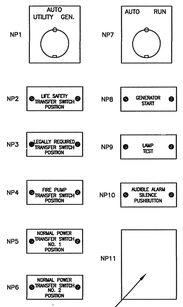
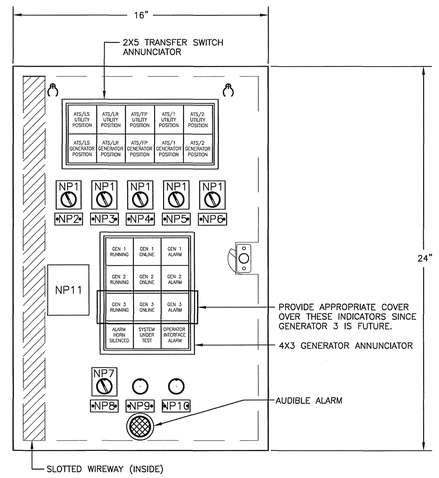
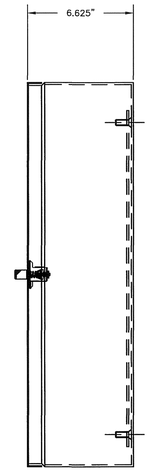


CAUTION
TRANSFER SWITCH AND GENERATOR SELECTOR SWITCHES SHOULD BE LEFT IN "AUTO" POSITION UNDER NORMAL CONDITIONS. SWITCH POSITIONS OTHER THAN AUTO SHALL ONLY BE PERFORMED FOR TESTING OR FIRE DEPARTMENT PURPOSES.

NAMEPLATE DETAILS



FRONT VIEW

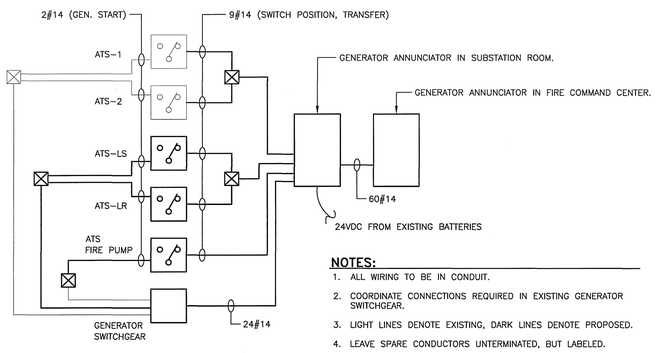


SIDE VIEW

GENERAL NOTES:

1. ENCLOSURE FABRICATED FROM SHEET STEEL IN ACCORDANCE WITH UL STANDARD 508.
2. ALL STEEL PARTS SHALL BE PREPARED FOR PAINTING BY A FIVE STEP CLEANING, PHOSPHATIZING AND SEALING PROCESS. THE PARTS SHALL THEN BE PAINTED ASA #61 GRAY, UTILIZING POLYESTER POWDER COATING APPLIED BY THE ELECTROSTATIC METHOD AND CURED IN A BAKING OVEN. THIS FINISH IS SUITABLE FOR OUTDOORS, AS WELL AS INDOOR APPLICATIONS.
3. ALL DIMENSIONS ARE IN INCHES (1 INCH = 2.54 CM)
4. CONTROL VOLTAGE: 24 VOLT DC.

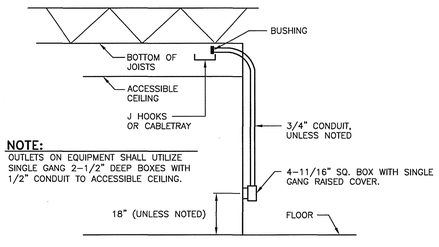
GENERATOR ANNUNCIATOR DETAIL
NO SCALE



NOTES:

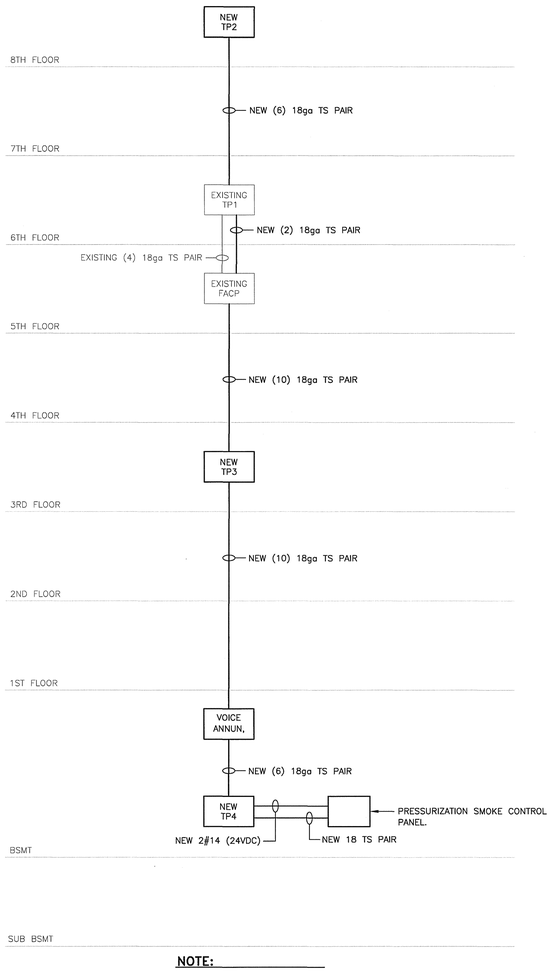
1. ALL WIRING TO BE IN CONDUIT.
2. COORDINATE CONNECTIONS REQUIRED IN EXISTING GENERATOR SWITCHGEAR.
3. LIGHT LINES DENOTE EXISTING, DARK LINES DENOTE PROPOSED.
4. LEAVE SPARE CONDUCTORS UNTERMINATED, BUT LABELED.
5. EXACT WIRING, MATERIALS AND CONNECTIONS SHALL BE MADE AS NEEDED TO ALLOW EITHER ANNUNCIATOR TO OPERATE PROPERLY, INCLUDE ALL WORK IN BID.
6. TRANSFERS FROM UTILITY TO GENERATOR SOURCES SHALL OCCUR AS FOLLOWS UPON LOSS OF UTILITY POWER (VERIFY/ADJUST SETTINGS AS NEEDED:
   LIFE SAFETY (ATS-LS): 0-10 SEC.
   LEGALLY REQUIRED: (ATS-LR): 10-20 SEC.
   FIRE PUMP (ATS-FP): 20-30 SEC.
   SUBSTATION (ATS-1 & ATS-2): 60-90 SEC.

ATS/GENERATOR CONTROL DIAGRAM
NO SCALE



NOTE:
OUTLETS ON EQUIPMENT SHALL UTILIZE SINGLE GANG 2-1/2" DEEP BOXES WITH 1/2" CONDUIT TO ACCESSIBLE CEILING.

TELECOMMUNICATIONS OUTLET DETAIL
N.T.S.



NOTE:
ALL WIRING TO BE IN CONDUIT

FIRE ALARM INTERCONNECT DIAGRAM
NO SCALE

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eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

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WAUKESHA, WI 53186
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FIRE ALARM INTERCONNECT DIAGRAM

E502

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PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 8TH FLOOR
LSH8	VOLTAGE: 277/480	MLO	SURFACE	X	FUSIBLE PANEL
	PHASE: 3		FLUSH		50k AIC
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
OFC. EM. LTS. 4TH & 5TH	10			20	1	2	20	10			EM. LTS. SUB-BSMT/BSMT MEZZ
CORR. & TLT. 4TH & 5TH		10		20	3	4	20		10		BSMT. ELEC. RM. EM. LTS.
JAIL EM. LTS. 5TH & 6TH			10	20	5	6	20			10	STAIRS 1,2,3 EM. LTS.
OFC. EM. LTS. 3RD	10			20	7	8	20	10			OFC. EM. LTS. 6TH
CORR. STAIR MALL 2ND & 3RD		10		20	9	10	20		10		CORR. & TLT. LTS. 6TH,7TH,8TH
OFC. EM. LTS. 2ND			10	20	11	12	20			10	OFC. EM. LTS. 7TH
EM. LTS. 1ST EA-1	10			20	13	14	20	–			SPARE
EM. LTS. 1ST EA-2		10		20	15	16	20		–		SPARE
SPARE			–	20	17	18	20			–	SPARE
SPARE	–			20	19	20	20	–			SPARE
SPARE		–		20	21	22	20		–		SPARE
SPARE			–	20	23	24	20			–	SPARE
					25	26					
					27	28					
					29	30					
						TOTAL	50	50	40		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 4TH FLOOR
LSH4	VOLTAGE: 277/480	MLO	SURFACE	X	FUSIBLE PANEL, 50k AIC
	PHASE: 3		FLUSH		THRU FEED LUGS
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
SPARE	–			20	1	2	20	–			SPARE
SPARE		–		20	3	4	20		–		SPARE
SPARE			–	20	5	6	20			–	SPARE
SPARE	–			20	7	8	20	–			SPARE
SPARE		–		20	9	10	20		–		SPARE
SPARE			–	20	11	12	20			–	SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	–	–	–		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 8TH FLOOR
LSL8	VOLTAGE: 120/208	MLO	SURFACE	X	FUSIBLE PANEL
	PHASE: 3		FLUSH		50k AIC
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
EXIT LTS.	10			20	1	2	20	5			ELEV. FIRE ALARM
EM. LTS. HALL		10		20	3	4	20		10		ELEV. CARD READERS
EM. LTS. SB005, M002			10	20	5	6	20			10	ELEV. CAR 3 LTS.
BULL PEN LTS. 4TH & 5TH	10			20	7	8	20	10			ELEV. CNTL.
EXIT LTS. 6TH		10		20	9	10	20		10		ELEV. CAR 4 LTS.
JAILERS ALARM SP1			10	20	11	12	20			–	SPARE
ELEVATOR – PRISONER	15			20	13	14	20	–			SPARE
110V ELEV. FAN/LT		15		20	15	16	20		–		SPARE
ELEV. DATA UNIT			15	20	17	18	20			–	SPARE
FIRE/SMOKE DAMPERS (W)	5			20	19	20					
FIRE/SMOKE DAMPERS (E)		5		20	21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	55	60	45		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: BASEMENT
LSLB	VOLTAGE: 120/208	200A FUSE	SURFACE	X	FUSIBLE PANEL, 50k AIC
	PHASE: 3		FLUSH		THRU FEED LUGS
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
FA/VCC	10			20	1	2	20	–			SPARE
FA/TP4		10		20	3	4	20		–		SPARE
SPARE			–	20	5	6	20			–	SPARE
SPARE	–			20	7	8	20	–			SPARE
SPARE		–		20	9	10	20		–		SPARE
SPARE			–	20	11	12	20			–	SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	10	10	–		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 8TH FLOOR
LRH8	VOLTAGE: 277/480	200A FUSE	SURFACE	X	FUSIBLE PANEL THRU FEED LUGS
	PHASE: 3		FLUSH		50k AIC
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
ELEV. 3 PHASE CNTL.	5			20	1	2	30	15			PENTHOUSE AC
ELEV. 3 PHASE CNTL.		5			3	4			15		PENTHOUSE AC
ELEV. 3 PHASE CNTL.			5	3	5	6	3			15	PENTHOUSE AC
SF-1	21			30	7	8	20	11			SF-4
SF-1		21			9	10			11		SF-4
SF-1			21	3	11	12	3			11	SF-4
SF-2	7.6			15	13	14	20	11			SF-5
SF-2		7.6			15	16			11		SF-5
SF-2			7.6	3	17	18	3			11	SF-5
SF-3	11			20	19	20	15	3.4			SF-6
SF-3		11			21	22			3.4		SF-6
SF-3			11	3	23	24	3			3.4	SF-6
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
FC-1			3.0	15	41	42					
						TOTAL	85	85	88		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: BASEMENT
LSHB	VOLTAGE: 277/480	MLO	SURFACE	X	FUSIBLE PANEL, 50k AIC
	PHASE: 3		FLUSH		THRU FEED LUGS
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
TRANSFORMER	70			100	1	2	20	–			SPARE
TRANSFORMER		70			3	4	20		–		SPARE
TRANSFORMER			70	3	5	6	20			–	SPARE
POLICE GARAGE C. ROW LTS.	10			20	7	8	20	–			SPARE
POLICE GARAGE DOOR ALARM		10		20	9	10	20		–		SPARE
FCC/EQ. RM. LTS.			1	20	11	12	20			–	SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	80	80	71		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 6TH FLOOR
LSL6	VOLTAGE: 120/208	MLO	SURFACE	X	FUSIBLE PANEL, 50k AIC
	PHASE: 3		FLUSH		THRU FEED LUGS
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
FIKE FIRE PANEL	5			20	1	2	20	10			JAIL DOOR CNTLS.
ALLISON SEC. PANEL		5		20	3	4	20		10		JAIL DOOR CNTLS.
ALLISON SEC. PANEL			5	20	5	6	20			10	JAIL DOOR CNTLS.
ALLISON SEC. PANEL	5			20	7	8	20	10			JAIL DOOR CNTLS.
ALLISON SEC. PANEL		5		20	9	10	20		10		JAIL DOOR CNTLS.
FA SIMPLEX (TP1)			10	20	11	12	20			10	JAIL DOOR CNTLS.
JAIL DOOR CNTLS.	10			20	13	14	20	–			SPARE
JAIL DOOR CNTLS.		10		20	15	16	20		–		SPARE
JAIL DOOR CNTLS.			10	20	17	18	20			–	SPARE
SPARE	–			20	19	20	20	–			SPARE
SPARE		–		20	21	22	20		–		SPARE
SPARE			–	20	23	24	20			–	SPARE
					25	26					
					27	28					
					29	30					
						TOTAL	40	40	45		

PANEL:	BUS AMPS: 100	MAIN:	MOUNTING		REMARKS: 8TH FLOOR
LCA	VOLTAGE: 120/208	100A MCB	SURFACE	X	THRU FEED LUGS
	PHASE: 3		FLUSH		10k AIC
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
SIGN	5			20	1	2	20	5			EM. GEN. HTRS.
SIGN		1		20	3	4	20		5		OUTLET ELEC. RM. 8TH FL.
OUTLETS ROOM 408			5	20	5	6	20			5	OUTLET ELEC. RM. 5TH FL.
OUTLETS ELEC. EQ. RM. 7TH FL.	5			20	7	8	20	5			JOHNSON CNTLS. DSC8000
OUTLETS ELEC. EQ. RM. 6TH FL.		5		20	9	10	20		–		SPARE
OUTLETS ELEC. EQ. RM. 6TH FL.			5	20	11	12	20			–	SPARE
SIGN CONTACTOR/PHOTOCELL	1			20	13	14	20	–			SPARE
SPARE		–		20	15	16	20		–		SPARE
SPARE			–	20	17	18	20			–	SPARE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	21	11	15		

PANEL:	BUS AMPS: 200	MAIN:	MOUNTING		REMARKS: 4TH FLOOR
LSL4	VOLTAGE: 120/208	MLO	SURFACE	X	FUSIBLE PANEL, 50k AIC
	PHASE: 3		FLUSH		THRU FEED LUGS
	WIRE: 4				

CIRCUIT DESCRIPTION	AMPS A	AMPS B	AMPS C	CB	CKT	CKT	CB	AMPS A	AMPS B	AMPS C	CIRCUIT DESCRIPTION
FA/TP3	10			20	1	2	20	–			SPARE
SPARE		–		20	3	4	20		–		SPARE
SPARE			–	20	5	6	20			–	SPARE
SPARE	–			20	7	8	20	–			SPARE
SPARE		–		20	9	10	20		–		SPARE
SPARE			–	20	11	12	20			–	SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
						TOTAL	10	–	–		

MOTOR WIRING SCHEDULE ◊

ABBREVIATIONS

CS – COMBINATION STARTER
EC – ELECTRICAL CONTRACTOR
ES – EQUIPMENT SUPPLIER
F – FUSED
IU – IN UNIT
MAG – MAGNETIC STARTER
MAN – MANUAL STARTER
MC – MECHANICAL CONTRACTOR
MCC – MOTOR CONTROL CENTER
MFR – MANUFACTURER
NF – NON FUSED
NU – NEAR UNIT
OU – ON UNIT
PC – PLUMBING CONTRACTOR
TS – TOGGLE SWITCH
VFD – VARIABLE FREQUENCY DRIVE
WP – WEATHERPROOF

NO	HP	VOLTS	Ø	LOC	DRIVING	FED FROM PNL.	FED FROM NO.	STARTER TYPE	STARTER SIZE	STARTER F	STARTER I	STARTER W	STARTER LOC	DISCONNECT TYPE	DISCONNECT F	DISCONNECT I	DISCONNECT W	DISCONNECT LOC	BKR/FUSE SIZE	BKR/FUSE POLE	BR. WIRING NO	BR. WIRING SIZE	BR. WIRING GND	BR. WIRING COND	SEE NOTE
1	15	480	3	ROOF	SF-1	LRHB	7,9, 11	CS	2	EC	EC	EC	NU	–	–	–	–	–	30	3	3	10	10	3/4	3
2	5	480	3	ROOF	SF-2	LRHB	13,15, 17	CS	1	EC	EC	EC	NU	–	–	–	–	–	15	3	3	12	12	1/2	3
3	7.5	480	3	ROOF	SF-3	LRHB	21,23, 25	CS	1	EC	EC	EC	NU	–	–	–	–	–	20	3	3	12	12	1/2	3
4	7.5	480	3	ROOF	SF-4	LRHB	8,10, 12	CS	1	EC	EC	EC	NU	–	–	–	–	–	20	3	3	12	12	1/2	3
5	7.5	480	3	ROOF	SF-5	LRHB	14,16, 18	CS	1	EC	EC	EC	NU	–	–	–	–	–	20	3	3	12	12	1/2	3
6	2	480	3	ROOF	SF-6	LRHB	20,22, 24	CS	1	EC	EC	EC	NU	–	–	–	–	–	15	3	3	12	12	1/2	3
7	2	460	3	BSMT.	JOCKEY PUMP	AA/BB	19,21, 23	CS	–	PC	EC	EC	NU	–	–	–	–	–	20	3	3	12	12	3/4	1
8	125	460	3	BSMT.	FIRE PUMP	–	–	CS	–	PC	EC	EC	NU	–	–	–	–	–	–	–	–	–	–	–	2
9	1/3	277	1	8TH	FC-1	LRHB	42	MAG	–	MFR	MFR	MFR	OU	–	MFR	MFR	EC	OU	15	1	2	12	12	1/2	

MOTOR WIRING SCHEDULE NOTES:

1. REUSE EXISTING CIRCUIT. STARTER IS "FVNR" TYPE.
2. STARTER IS "SOFT START" TYPE. FIRE PUMP CONTROLLER INCLUDES ATS. SEE ONE-LINE DIAGRAM.
3. STARTER IS "VFD" TYPE. COORDINATE CONTROL CONNECTIONS WITH PRESSURIZATION CONTROL SYSTEM.

TYPICAL SPECIAL OUTLET SCHEDULE ◬

ABBREVIATIONS

TERMINAL
R – PROVIDE RECEPTACLE TO MATCH EQUIPMENT CORD
D – PROVIDE FUSED DISCONNECT SWITCH AND HARDWIRED CONNECTION TO EQUIPMENT
B – PROVIDE JUNCTION BOX FOR HARDWIRE CONNECTION TO EQUIPMENT

NO.	TO FEED	LOC.	FEED FROM PANEL	FEED FROM CKT.	BREAKER SIZE	BREAKER POLE	WIRING NO.	WIRING SIZE	WIRING GND	WIRING COND.	TERMINAL R	TERMINAL D	TERMINAL B	VOLT	Ø	LOAD	SEE NOTE
FS1	FIRE/SMOKE DAMPERS (WEST)	SEE PLANS	LSL8	19	20	1	2	12	12	1/2			X	120	1	1A	1
FS2	FIRE/SMOKE DAMPERS (EAST)	SEE PLANS	LSL8	21	20	1	2	12	12	1/2			X	120	1	1A	1

SPECIAL OUTLET SCHEDULE NOTES:

1. POWER SMOKE DETECTOR IN DAMPER. CONNECT FIRE ALARM MONITOR MODULE TO MONITOR SMOKE/FIRE DAMPER ACTIVATION.

LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

C – CONCRETE
CB – CONCRETE BASE
CH – CHAIN
ES – EXPOSED STRUCTURE
F – FLUSH
G – GYP BOARD
LG – LAYIN GRID
P – PENDANT
R – RECESSED
S – SURFACE
U – UNIVERSAL
V – VARIES
W – WALL

DES.	DESCRIPTION	LAMP DATA NO.	LAMP DATA TYPE	VOLT	DEPTH	LIGHTING FIXTURE MFR.	LIGHTING FIXTURE CAT. NO.	MTG.	MTG. SURF	SEE NOTE
A	2 X 4 LENSED TROFFER WITH AIR HANDLING/HEAT REMOVAL	3	F32T8	MVOLT	4-1/2"	LITHONIA	2SPGD332K15MVOLT1/3BINP	R	LG	2,5
B	ASY. SLOT DIMMING	1	F32T8	277	5.88"	FOCAL POINT	FSM4A-NS-1TB-1C-277-D-T1-WH	R	LG	3,4
C	8' INDUSTRIAL	4	F32T8	MVOLT	–	LITHONIA	TAF10232MVOLTBINPEL14SD	CH	ES	
D	1 X 4 SECURITY TROFFER	2	F32T8	MVOLT	5.3"	KENALL	RMCA-2-FL/TR-1/1-2-32-IS-1-MVOLT-1/9-1	R	G	1
F	1 X 4 SURF. VR TROFFER	2	F32T8	MVOLT	4-1/2"	LITHONIA	VRS232K15MVOLTBINP	S	G	1,2
G	2 X 4 DIRECT/INDIRECT DIMMING TROFFER	2	F32T8	120	–	FOCAL POINT	FEQ24B2T8120G1WPWH	R	LG	4
G1	2 X 4 DIRECT/INDIRECT TROFFER	2	F32T8	277	–	FOCAL POINT	FEQ24B2T8DA277G1WPWH	R	LG	
H	6" LED DIMMABLE DOWN LIGHT	–	LED	120	–	LITHONIA	DOM6LED900L120DO6MWDIM	R	LG	4
H1	6" LED DOWN LIGHT	–	LED	277	–	LITHONIA	DOM6LED600L277DO6MW	R	LG	
J	NARROW WRAPAROUND	1	F32T8	120	–	LITHONIA	CA132ARMVOLTBINP	S	LG	
J1	NARROW WRAPAROUND	2	F32T8	120	–	LITHONIA	CA232ARMVOLTBINP	S	W	

LIGHTING FIXTURE SCHEDULE NOTES:

1. MATCH EXISTING DOOR FASTENERS.
2. MATCH EXISTING KSH K-15 LENSES.
3. ORIENT TOWARD WALL.
4. 0-10V DIMMING BALLAST/DRIVER.
5. PROVIDE AIR CLOSURE STRIPS FOR FIXTURES NOT CONNECTED TO HVAC (ASSUME ALL FOR BID PURPOSES).

eppstein uhen : architects
milwaukee 333 East Chicago Street Milwaukee, Wisconsin 53202 tel 414 271 5350 fax 414 271 7794
madison 222 West Washington Ave, Suite 650 Madison, Wisconsin 53703 tel 608 442 5350 fax 608 442 6680

Powrtek Engineering,Inc.
20711 WATERTOWN RD., SUITE C
WAUKESHA, WI 53186
VOICE: 262-827-9575
FAX: 262-827-9615

PROJECT INFORMATION

PAB - NEW CHASE AND HIGH RISE UPGRADES

749 West State Street
Milwaukee, WI

ISSUANCE AND REVISIONS

CONSTRUCTION DOCUMENTS

REVISIONS

DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	GWS
PROJECT NUMBER	310077-01
DATE	04/02/2012

SCHEDULES

E600

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