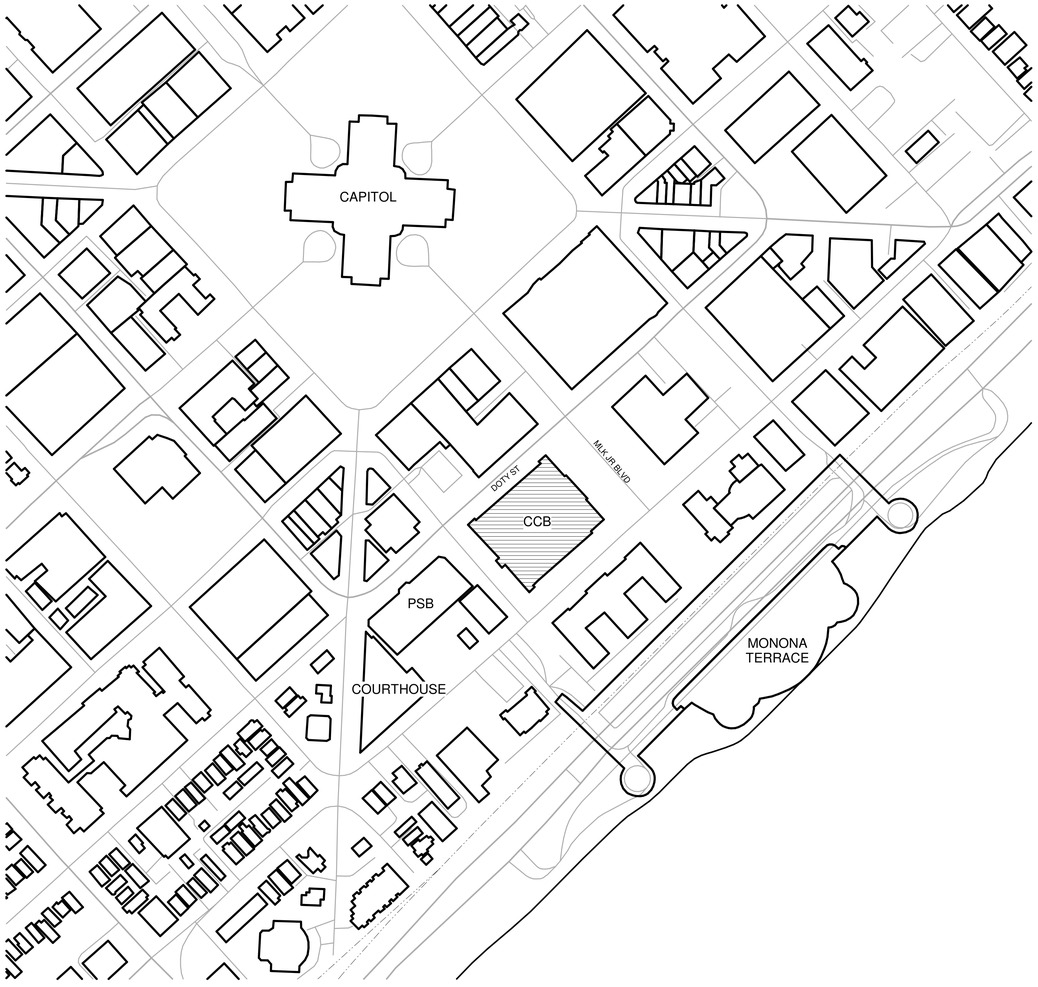
DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

BID DOCUMENTS

PUBLIC WORKS PROJECT NO. 317006



1 CD01 LOCATION MAP - DOWNTOWN MADISON
NOT TO SCALE

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M2-0	EQUIPMENT SCHEDULES
M2-1	EQUIPMENT SCHEDULES
M3-0	DETAILS

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Potter Lawson
Success by Design

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

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ISSUED
04/04/17 BID DOCUMENTS

BID DOCUMENTS

M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: JDH
DRAWN BY: MKH
CHECKED BY: JDH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
COVER DRAWING

SHEET NO.:
CD01

ABBREVIATIONS

REFERENCE STANDARDS

ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICANS WITH DISABILITIES ACT
AGA	AMERICAN GAS ASSOCIATION
AIA	AMERICAN INSTITUTE OF ARCHITECTS
AWS	AMERICAN WELDING SOCIETY
AWI	ARCHITECTURAL WOODWORKING INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING REFRIGERATING, AND AIR CONDITIONING ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS AMERICAN SOCIETY OF SANITARY ENGINEERS
ASSE	AMERICAN WATER WORKS ASSOCIATION
AWWA	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASME	AMERICAN SOCIETY OF TESTING AND MATERIALS
ASTM	AMERICAN ASSOCIATION OF STATE HIGHWAY &
AASHTO	TRANSPORTATION OFFICIALS COMMERCIAL STANDARD
CS	CONSTRUCTION SPECIFICATION INSTITUTE
CSI	CAST IRON SOIL PIPE INSTITUTE
CISPI	STATE OF WISCONSIN, DEPARTMENT OF NATURAL
DNR	RESOURCES
DOT	STATE OF WISCONSIN, DEPARTMENT OF TRANSPORTATION
DOC	STATE OF WISCONSIN, DEPARTMENT OF COMMERCE
	FEDERAL SPECIFICATIONS
FS	INSULATING GLASS CERTIFICATION COUNCIL
IGCC	MANUFACTURERS STANDARDIZATION SOCIETY
MSS	NATIONAL BUREAU OF STANDARDS
NBS	NATIONAL ELECTRICAL CODE
NEC	NATIONAL ELECTRICAL MANUFACTURERS
NEMA	ASSOCIATION
	NATIONAL FIRE PROTECTION ASSOCIATION
NFPA	NATIONAL FOREST PRODUCTS ASSOCIATION
NFPA	NATIONAL PARTICLEBOARD ASSOCIATION
NPA	NATIONAL SANITATION FOUNDATION
NSF	NATIONAL SWIMMING POOL INSTITUTE
NSPI	OCCUPATIONAL SAFETY AND HEALTH
OSHA	ADMINISTRATION
	PRECAST/PRESTRESSED CONCRETE INSTITUTE
PCI	PLUMBING AND DRAINAGE INSTITUTE
PDI	SHEET METAL AND AIR CONDITIONING
SMACNA	CONTRACTORS NATIONAL ASSOCIATION
SIGMA	SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION
SSHSC	STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION, WISCONSIN DOT, DIVISION OF HIGHWAYS
UL	UNDERWRITERS LABORATORIES
WCF	WATER CONDITIONING FOUNDATION

TRADE STANDARDS

A/E	ARCHITECT AND/OR ENGINEER
EC	ELECTRICAL CONTRACTOR
ELC	ELEVATOR CONTRACTOR
FPC	FIRE PROTECTION CONTRACTOR
FSC	FOOD SERVICE CONTRACTOR
GC	PRIME CONTRACTOR OR DESIGNATED CONTRACTOR OF HIS CHOICE
HC	HEATING CONTRACTOR
PC	PLUMBING CONTRACTOR
TCC	TEMPERATURE CONTROL CONTRACTOR

GENERAL STANDARDS

AB	ANCHOR BOLT
ABAN	ABANDON
ABC	AGGREGATE BASE COURSE
AC	AIR CONDITIONING
ACM	ALUMINUM COMPOSITE
ACID RES	MATERIAL
ACOUS	ACID RESISTANT
ACOUS INSUL	ACOUSTICAL
ACOUS PNL	ACOUSTICAL INSULATION
ACOUS TILE	ACOUSTICAL PANEL
ACP	ACOUSTICAL TILE
ACS FLR	ASPHALTIC CONCRETE PAVING
ACS PNL	ACCESS FLOOR
AD	ACCESS PANEL
ADC	AREA DRAIN
ADDL	AUTOMATIC DOOR CLOSER
ADH	ADDITIONAL
ADJ	ADHESIVE
ADJC	ADJUSTABLE
ADS	ADJACENT
AFF	AUTOMATIC DOOR SEAL
AFG	ABOVE FINISHED FLOOR
AFS	ABOVE FINISHED GRADE
AGGR	ABOVE FINISHED SLAB
AHU	AGGREGATE
ALT	AIR HANDLING UNIT
ALT NO	ALTERNATE; ALTERNATIVE
ALUM	ALTERNATE NUMBER
ANOD	ALUMINUM
APPROX	ANODIZE
ARCH	APPROXIMATE
ASC	ARCHITECTURAL
ASSY	ABOVE SUSPENDED CEILING
AUTO	ASSEMBLY
AUX	AUTOMATIC
AVE	AUXILIARY
AWT	AVENUE ACOUSTICAL WALL TREATMENT
B&B	BALLED AND BURLAPPED
B/B	BACK TO BACK
BC	BACK OF CURB
BD	BOARD
BEV	BEVEL
BF	BARRIER FREE
BFE	BOTTOM OF FOOTING ELEVATION
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLT	BORROWED LIGHT
BM	BENCH MARK
BOT	BOTTOM
BOW	BOTTOM OF WALL
B PL	BASE PLATE
BRCG	BRACING
BRG	BEARING
BRK	BRICK
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	CENTIGRADE, CELSIUS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
CAB	CABINET
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CG	CORNER GUARD
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CFLG	COUNTER FLASHING
CFM	CUBIC FEET PER MINUTE
CHBD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLL	COLUMN LINE
CLR	CLEAR
CLRM	CLASSROOM
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CMP	CORRUGATED METAL PIPE
CNTR	COUNTER
CO	CLEAN OUT
CONST JT	CONSTRUCTION JOINT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT/CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONCRETE PIPE
CRCMF	CIRCUMFERENCE
CSB	CONCRETE SPLASH BLOCK
CSK	COUNTERSUNK
CSFHMS	COUNTERSUNK FLAT HEAD MACHINE SCREW
CSFHWS	COUNTERSUNK FLAT HEAD WOOD SCREW
CSMT	CASEMENT
CSMU	CALCIUM SILICATE MASONRY UNIT
CSWK	CASEWORK
CT	CERAMIC TILE
CTD&R	COMBINATION TOWEL DISPENSER & RECEPTACLE
CTR	CENTER
CU	CUBIC
CUH	CABINET UNIT HEATER
D	PENNY (NAIL)
DBL	DOUBLE
DLB ACT	DOUBLE ACTING
DEG	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DN	DOWN
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DR CL	DOOR CLOSURE
DR FR	DOOR FRAME
DRLV	DOOR LOUVER
DS	DOWNSPOUT
DT	DRAIN TILE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
DWRT	DUMBWAITER
E	EAST
EA	EACH
EF	EACH FACE
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ESCAL	ESCALATOR
ESMT	EASEMENT
ESTB	ESTABLISH
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATION/EXCAVATE
EXH	EXHAUST
EXST	EXISTING
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
EXST GR	EXISTING GRADE
F	FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATE
FBC	FIRE BLANKET CABINET
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FGL	FIBERGLASS
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FIXT	FIXTURE
FLG	FLASHING
FLL	FLOW LINE
FLR	FLOOR
FLR FIN	FLOOR FINISH
FLT GL	FLOAT GLASS
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD/FACE OF SLAB
FPL	FIREPLACE
FPRF	FIREPROOFING
FR	FRAME
FR MIR	FRAMED MIRROR
FR MIR/SHF	FRAMED MIRROR AND SHELF
FS	FULL SIZE
FSTNR	FASTENER
FT	FOOT/FEET
FTG	FOOTING
FURN	FURNITURE
FURG	FURRING
FWC	FABRIC WALL COVERING
GA	GAUGE
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GDR	GUARD RAIL
GI	GALVANIZED IRON
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUE LAMINATED WOOD
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GR	GRADE/GRADING
GRL	GRILLE
GRTG	GRATING
GSB	GYPSUM SHEATHING BOARD
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HB	HOSE BIB
HC	HOLLOW CORE
HD	HEAD
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HDW	HARDWARE
HEX	HEXAGONAL/HEXAGON
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HNDRL	HAND RAIL
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPT	HIGH POINT
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCHES
INCAND	INCANDESCENT
INSUL	INSULATION
INSUL PNL	INSULATED METAL PANEL
INT	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
IP	IRON PIPE
IPS	INSIDE PIPE SIZE
JAN CLO	JANITOR CLOSET
JST	JOIST
JT	JOINT
K	KIP
KD	KNOCKED DOWN
KIP FT	ONE THOUSAND FOOT POUNDS
KIT	KITCHEN
KLF	KIPS PER LINEAR FOOT
KO	KNOCKOUT
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LAB	LABORATORY
LAM	LAMINATE/LAMINATED
LAU	LAUNDRY
LAV	LAVATORY
LBR	LUMBER
LBS	POUNDS
LD BRG	LOAD BEARING
LF	LINEAR FEET (FOOT)
LG	LENGTH, LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIB	LIBRARY
LIN	LINEAR
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LPT	LOW POINT
LR	LIVING ROOM
LT	LIGHT
LTG	LIGHTING
LT WT	LIGHTWEIGHT
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBR	MASTER BEDROOM
MBW	MASONRY BEARING WALL
MCM	METAL COMPOSITE MATERIAL
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MHGT	MOUNTING HEIGHT
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MJ	MOVEMENT JOINT
MKBD	MARKER BOARD
ML	METAL LATH
MLDG	MOLDING (MOULDING)
MLWK	MILLWORK
MO	MASONRY OPENING
MS	MACHINE SCREW
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTP	METAL TOILET PARTITION
MULL	MULLION
MWP	MEMBRANE WATERPROOFING
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED-CONTRACTOR
OFOI	INSTALLED
O/O	OWNER FURNISHED-OWNER INSTALLED
OF	OUT TO OUT
OA	OUTSIDE FACE
OC	OUTSIDE AIR
OD	ON CENTER
OFF	OUTSIDE DIAMETER
OPH	OFFICE
OPNG	OPPOSITE HAND
OPP	OPENING
OVHD	OPPOSITE
OZ	OVERHEAD
	OUNCE
PAR	PARALLEL
PB	PUSHBUTTON
PBD	PARTICLEBOARD
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PERIM	PERIMETER
PERP	PERPENDICULAR
PERF	PERFORATED
PG	PIPE GUARD
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PKWY	PARKWAY
PL	PLATE
PL	PROPERTY LINE
PL GL	PLATE GLASS
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PMFS	PRE-MOLDED FILLER STRIP
PNL	PANEL
POL	POLISHED
PP	POWER POLE
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRKG	PARKING
PROJ	PROJECT
PROP	PROPERTY
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT/POINT/POST TENSIONED/ PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER & RECEPTACLE
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PTWD	PRESERVATIVE TREATED WOOD
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTF	QUARRY TILE FLOOR
QTY	QUANTITY
R	RISER
R	RADIUS
RA	RETURN AIR
RB	RESILIENT BASE
RC	REINFORCED CONCRETE
RCVR	RECEIVER
RECPT	RECEPTACLE
RD	ROOF DRAIN
RD	ROAD
REBAR	REINFORCING STEEL BARS
REC	RECESSED
RECT	RECTANGULAR
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING/REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISE/REVISION
RFG	ROOFING
RF	RESILIENT FLOORING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RAILROAD
RV	ROOF VENT
S	SOUTH
SA	SUPPLY AIR
SAFB	SOUND ATTENUATION FIRE BLANKET
SAN	SANITARY
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE/SCHEDULED
SCJ	SLAB CONTROL JOINT
SCMU	SOLID CONCRETE MASONRY UNIT
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER
SECT	SECTION
SFTWD	SOFTWOOD
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SJ	SCORED JOINT
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTOR
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SQ FT	SQUARE FOOT (FEET)
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STOR	STORAGE
STRUCT	STRUCTURAL/STRUCTURE
SUSP	SUSPEND/SUSPENDED
SUSP CLG	SUSPENDED CEILING
SW	SIDEWALK
SW	SWITCH
SYMM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TB	TOWEL BAR
TD	TOWEL DISPENSER
TD	TRENCH DRAIN
TDR	TOWEL DISPENSER/RECEPTACLE
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
TFF	TOP OF FINISH FLOOR
T&G	TONGUE AND GROOVE
THRES	THRESHOLD
TKBD	TACKBOARD
TMPD GL	TEMPERED GLASS
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOC	TOP OF CURB
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TELEPHONE POLE
TPH	TOILET PAPER HOLDER
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UF	UNDER FLOOR
UGND	UNDERGROUND
UH	UNIT HEATER
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UTIL	UTILITY
UV	UNIT VENTILATOR
V	VOLT
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER
VNR	VENEER
VENT	VENTILATING
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WEST
W/O	WITHOUT
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGL	WIRED GLASS
WH	WALL HYDRANT
WP	WEATHERPROOF
WP	WORKING POINT
WP	WATERPROOFING
WPM	WATERPROOF MEMBRANE
WR	WATER RESISTANT
WRECPT	WASTE RECEPTACLE
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YCO	YARD CLEAN OUT
YD	YARD
YD	YARD DRAIN

MATERIAL LEGEND

SECTION

- EARTH
- GRANULAR FILL
- GROUT, MORTAR AND PLASTER
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METAL
- CARPET
- WOOD (ROUGH)
- WOOD (FINISHED)
- PLYWOOD
- INSULATION (LOOSE OR BATT)
- INSULATION (RIGID)

ELEVATION

- BRICK
- CONCRETE, PLASTER AND ACOUSTICAL CEILING TILE

SYMBOLS LEGEND

SPECIFIC NOTES

- XX — NEW NOTE
- XX — DEMOLITION NOTE
- X — WINDOW/IGU TYPE
- XXXX — FINISH NOTE
- XXX'-XX" — CEILING HEIGHT NOTE
- ROOM NAME / RM # — ROOM NAME AND NUMBER
- 'OPENING' REFERENCE NUMBER — 100A; 101; DETENTION DOOR
- PARTITION TYPE REFERENCE — XX; X; NOTE: PARTITION TYPES DESIGNATED 'S' ARE TO EXTEND TO STRUCTURE ABOVE. EXAMPLE: XX/S
- BUILDING SECTION REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- WALL SECTION REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- EXTERIOR ELEVATION REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- INTERIOR ELEVATION REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- INTERIOR ELEVATION REFERENCE (MULTIPLE VIEW) — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- DETAIL SECTION REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- DETAIL REFERENCE — XX / XXXX; DETAIL NUMBER; DRAWING NUMBER
- EXIT ARROW SYMBOL — XX" EXIT WIDTH; XXX NUMBER OF OCCUPANTS
- DIMENSIONS — 3/4"; SLASH INDICATES DIMENSION TO FACE OR CENTERLINE OF OBJECT
- SPOT ELEVATIONS ON PLANS — 000'-00"
- FLOOR ELEVATION REFERENCE — LOCATION; 000'-0"

GENERAL NOTES

1. REFER TO A002 FOR DEPARTMENT OF CORRECTIONS CODE RELATED ISSUES.
2. NOT USED
3. NOT USED
4. ALL CMU PARTITIONS ARE RUNNING BOND UNLESS OTHERWISE INDICATED.
5. REFER TO ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES, FOR ADDITIONAL NOTES, SYMBOLS AND ABBREVIATIONS.
6. NOT USED
7. IN MASONRY CONSTRUCTION, LOCATE DOOR FRAMES ON THE SIDE OF THE WALL TOWARD THE ROOM INTO WHICH THE DOOR SWINGS UNLESS OTHERWISE INDICATED.
8. PROVIDE BULLNOSE CMU AT OUTSIDE VERTICAL CORNERS UNLESS OTHERWISE INDICATED.
9. SEE DRAWINGS A002 FOR REFERENCE FLOOR PLAN INDICATING FIRE RATED PARTITIONS AND SPACES. ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SLEEVED AND FIRE-SAFED, HAVE FIRE DAMPERS EQUIVALENT TO THE HOURLY FIRE RATING OF THE PENETRATED CONSTRUCTION.
10. ALL PITCHED FLOOR AREAS SHOWN WITH PITCH LINES SHALL SLOPE AT 1/4"/FT. UNLESS OTHERWISE INDICATED. PROVIDE A SLAB DEPRESSION AT ALL FLOOR DRAINS WHERE PITCH LINES ARE NOT SHOWN ON PLANS.
11. NOT USED
12. REFER TO SPECIFICATION SECTION 07 92 00 - JOINT SEALANTS FOR SECURITY SEALANT.
13. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE UNLESS OTHERWISE INDICATED.
14. WHERE DOORS OCCUR IN PARTITIONS WITHOUT DIMENSIONS, SEE THE DOOR FRAME DETAILS TO DETERMINE THE EXACT LOCATION OF THE DOOR.
15. REFER TO 1/4" SCALE ENLARGED FLOOR PLANS FOR DIMENSIONS OF TOILET ROOMS, STAIRS, ELEVATOR SHAFTS AND OTHER PLAN ELEMENTS
16. NOT USED
17. NOT USED
18. NOT USED
19. NOT USED
20. GENERAL CONTRACTOR SHALL COORDINATE ALL PLUMBING, MECHANICAL AND ELECTRICAL FLOOR, ROOF AND WALL SLEEVES AND SHAFTS WITH THE DRAWINGS OF ALL OTHER TRADES.
21. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS DRAWINGS AND MANUFACTURERS TEMPLATE DRAWINGS FOR ALL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATORS, ETC.
22. DEC RESPONSIBLE FOR FILLING ALL FIELD WELDS AT METAL TO METAL JOINTS WITH METAL BODY PUTTY FILLER OR APPROVED SECURITY SEALANT. SAND SMOOTH AND PRIME FOR FINISH PAINT. SEE SPECIFICATION SECTION 11 19 00 FOR WELDING PROCEDURES AND FINISHING OF FIELD WELDS. TYPICAL ALL DETENTION FURNISHINGS.

DE ABBREVIATIONS

ABV	ABOVE
ACC	ACCESSIBLE
DE	DETENTION
DEC	DETENTION EQUIPMENT CONTRACTOR
DHM	DETENTION HOLLOW METAL
DIV	DIVISION
EMT	ELECTRIC METALLIC TUBING
ES	EXPOSED STRUCTURE
FBO	FURNISHED BY OTHERS
GRC	GALVANIZED RIGID CONDUIT
JB	JUNCTION BOX
LG	LAY-IN GRID
LK	LOCK
MFG	MANUFACTURER
MTL	MATERIAL
RAI	REMAIN AS IS
RGS	REMOVABLE GLASS STOP
SE	SECURITY ELECTRONICS
SURF	SURFACE
TR	TOOL RESISTANT

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COUNTY of DANE WISCONSIN

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

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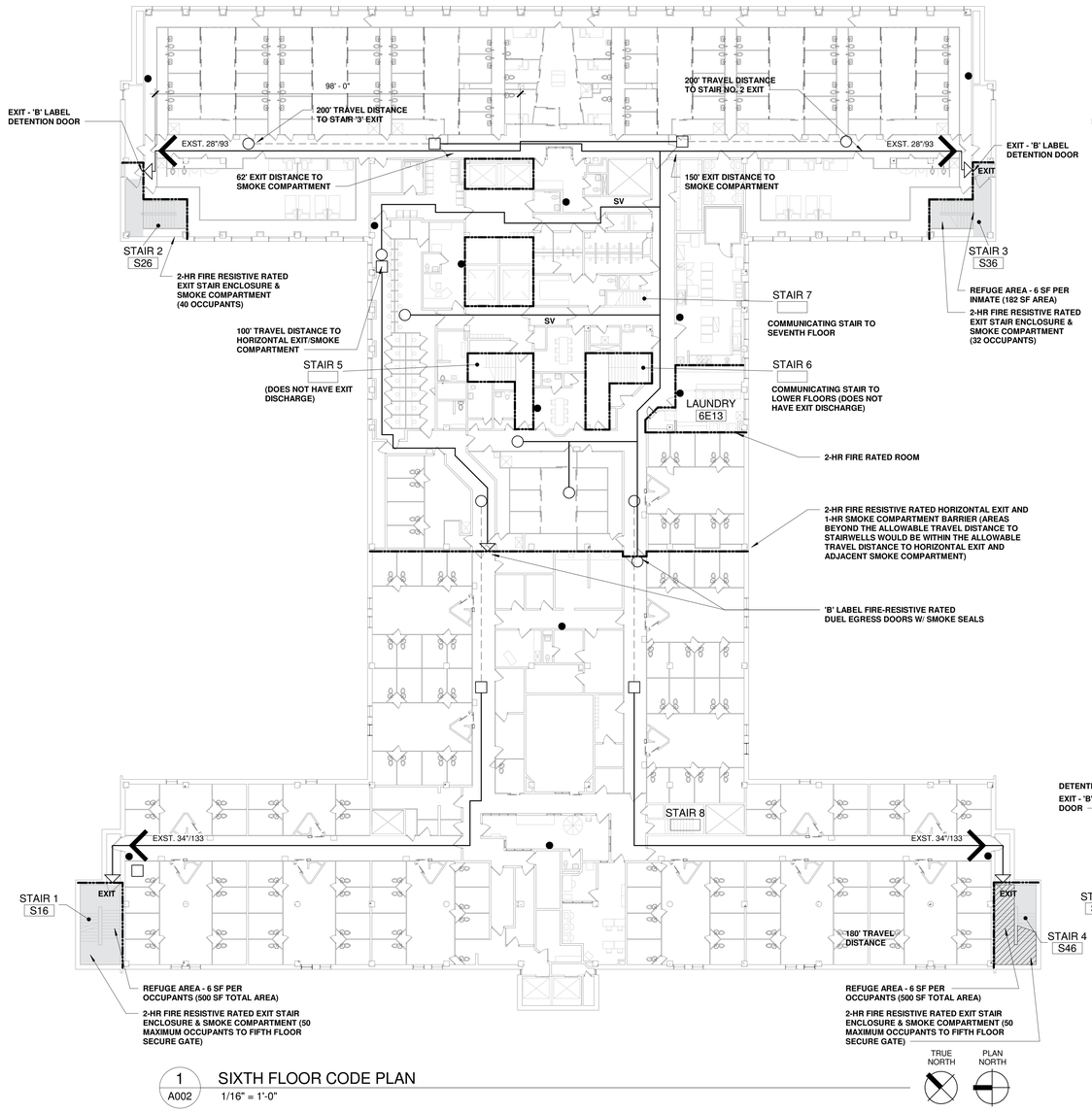
SHEET CONTENTS
ABBREVIATIONS, SYMBOLS AND NOTES

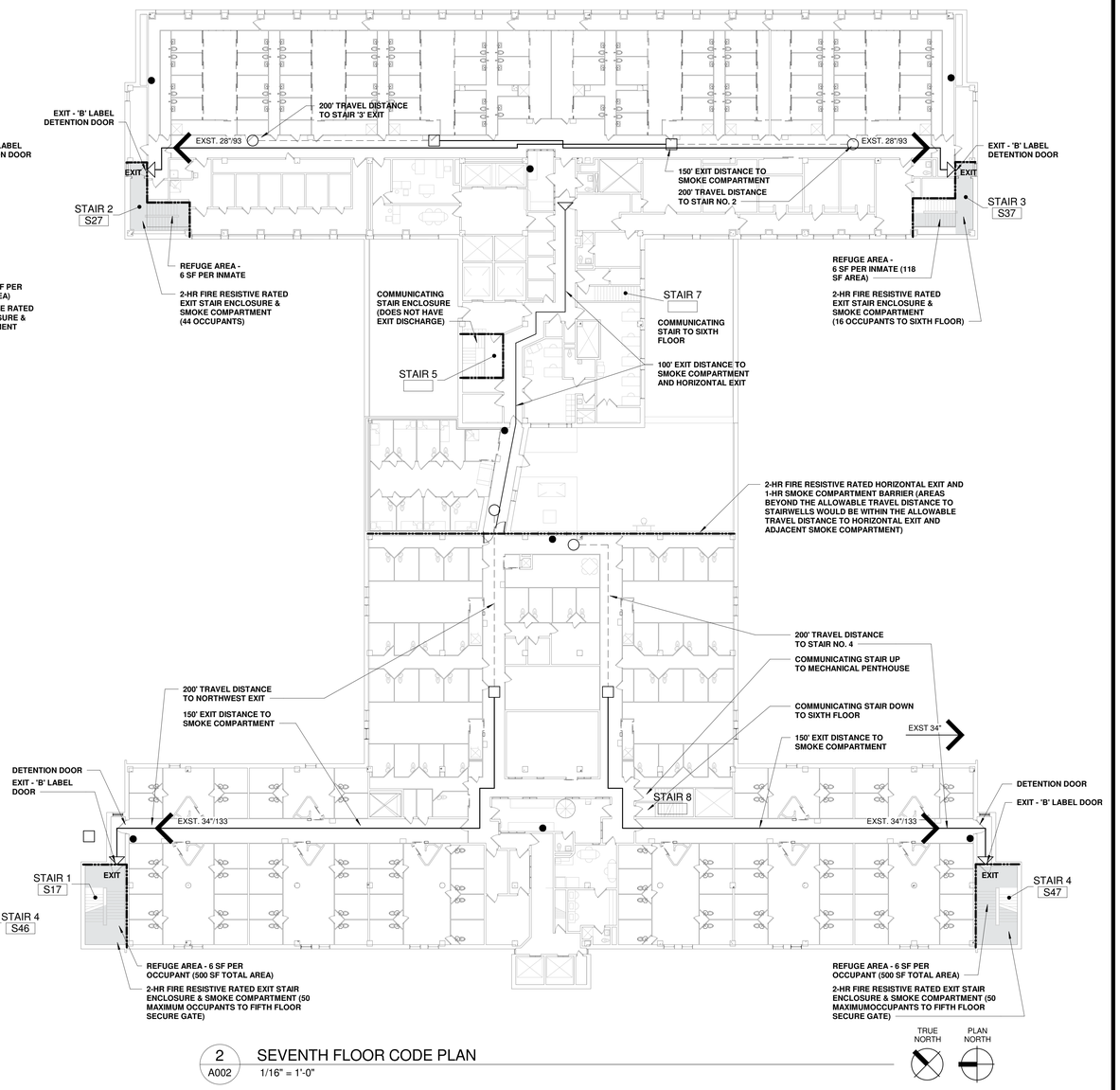
SHEET NO.:

A001



1 A002 SIXTH FLOOR CODE PLAN

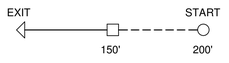
1/16" = 1'-0"



2 A002 SEVENTH FLOOR CODE PLAN

1/16" = 1'-0"

DESIGN CODE	**DSPS 361-366 COMMERICAL BUILDING CODE** **2009 INTERNATIONAL BUILDING CODE** **2009 INTERNATIONAL EXISTING BUILDING CODE, CHAPTER 7 (LEVEL 2 ALTERATIONS)**
OCCUPANCY CLASSIFICATION	**INSTITUTIONAL GROUP I-3 - DETENTION FACILITIES**
CONSTRUCTION TYPE	**TYPE 1A FIRE RESISTIVE**
INTERIOR SUPPORTS	**NC-4**
FLOOR FRAMING	**NC-3**
ROOF FRAMING	**NC-2**
ROOF COVERING	**CLASS 'A'**
EXTERIOR WALLS	**NC-0**
INTERIOR BEARING WALLS	**NC-3**
PARTITIONS	**NC-0**
FIRE SUPPRESSION SYSTEM	**YES**



TRAVEL DISTANCE TO A SMOKE BARRIER (IBC 408.6.1)

TRAVEL DISTANCE TO A DOOR IN A SMOKE BARRIER FROM ANY ROOM DOOR REQUIRED AS EXIT ACCESS SHALL NOT EXCEED 150 FEET

TRAVEL DISTANCE TO A DOOR IN A SMOKE BARRIER FROM ANY POINT IN A ROOM SHALL NOT EXCEED 200 FEET.

TRAVEL DISTANCE TO EXIST ACCESS SHALL NOT EXCEED 200 FEET (IBC 1016.1)

CODE LEGEND

- EXIT WIDTH / OCCUPANT CAPACITY OF EXIT — 60"/240
- I-3 — OCCUPANCY CLASSIFICATION
- FIRE EXTINGUISHER
- 1-HOUR SMOKE BARRIER
- 1-HOUR FIRE BARRIER
- 2-HOUR FIRE BARRIER

GENERAL NOTES

1. FIRE BARRIERS AND SMOKE BARRIERS SHALL BE PERMANENTLY IDENTIFIED WITH STENCILING IN ACCESSIBLE AND CONCEALED LOCATIONS AT INTERVALS NOT EXCEEDING 30' ALONG THE BARRIER.

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SHEET CONTENTS
CODE PLANS

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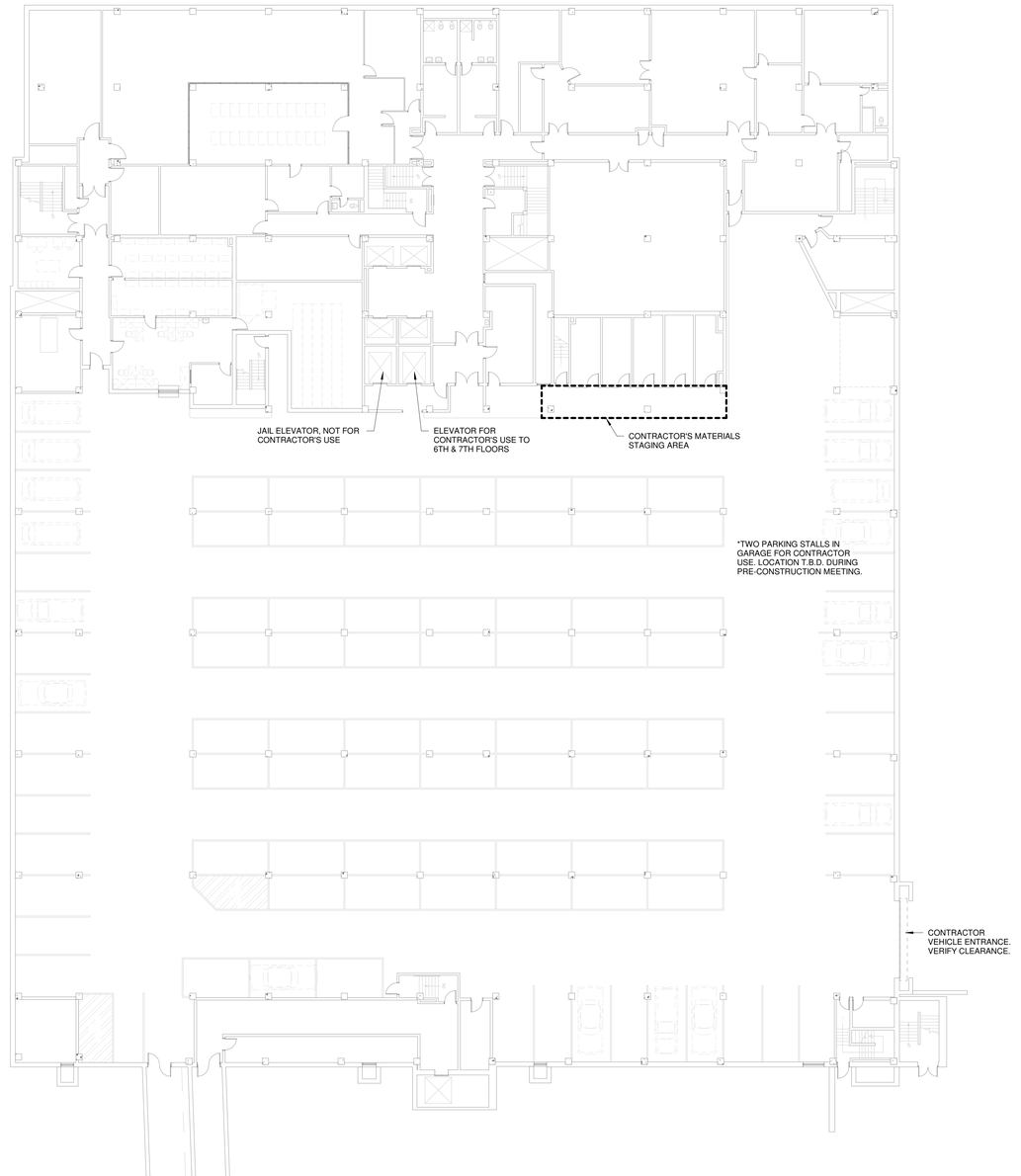
A002



1 A003 GARAGE FLOOR STAGING PLAN
1/16" = 1'-0"

TRUE NORTH
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SHEET CONTENTS
STAGING PLANS

SHEET NO.:
A003

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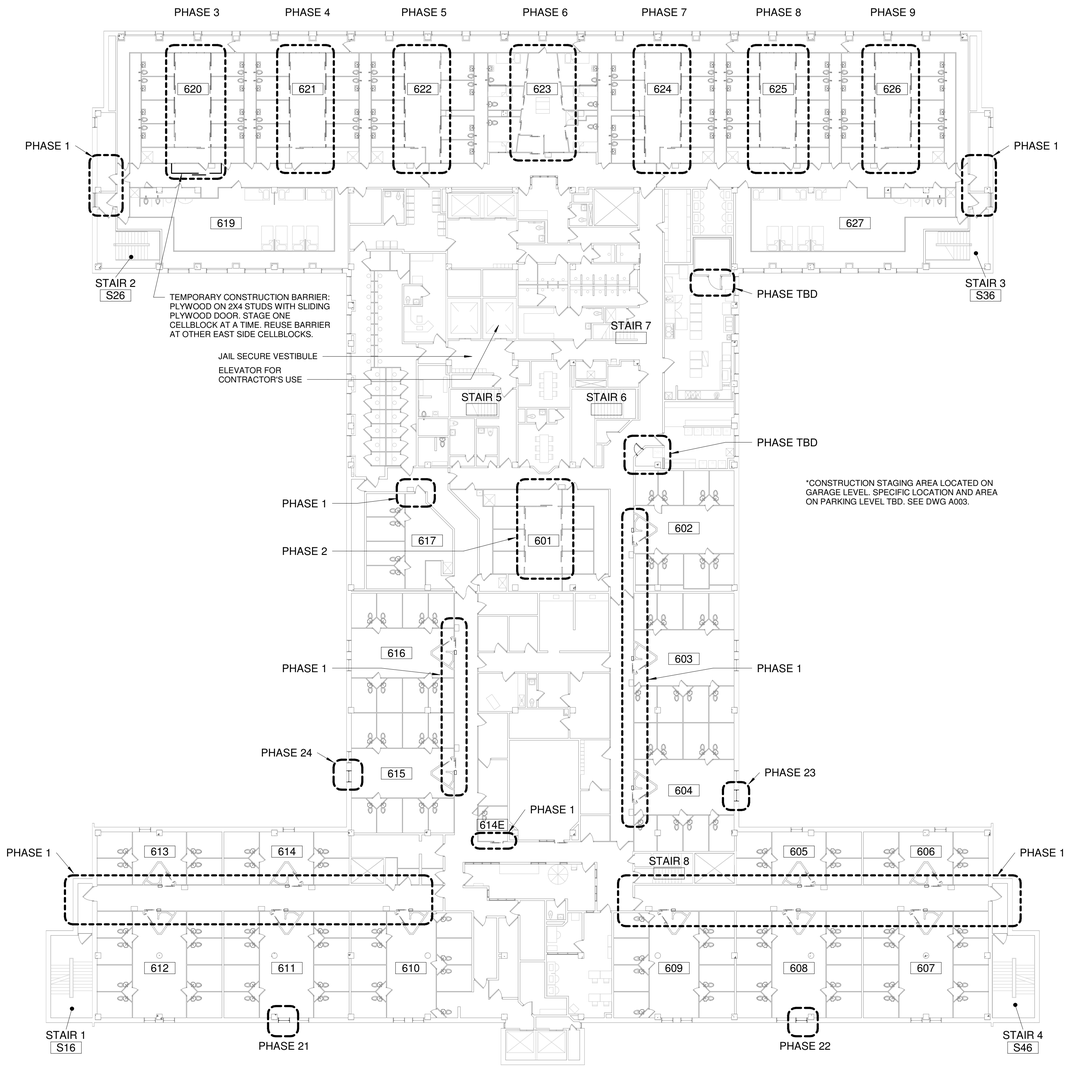
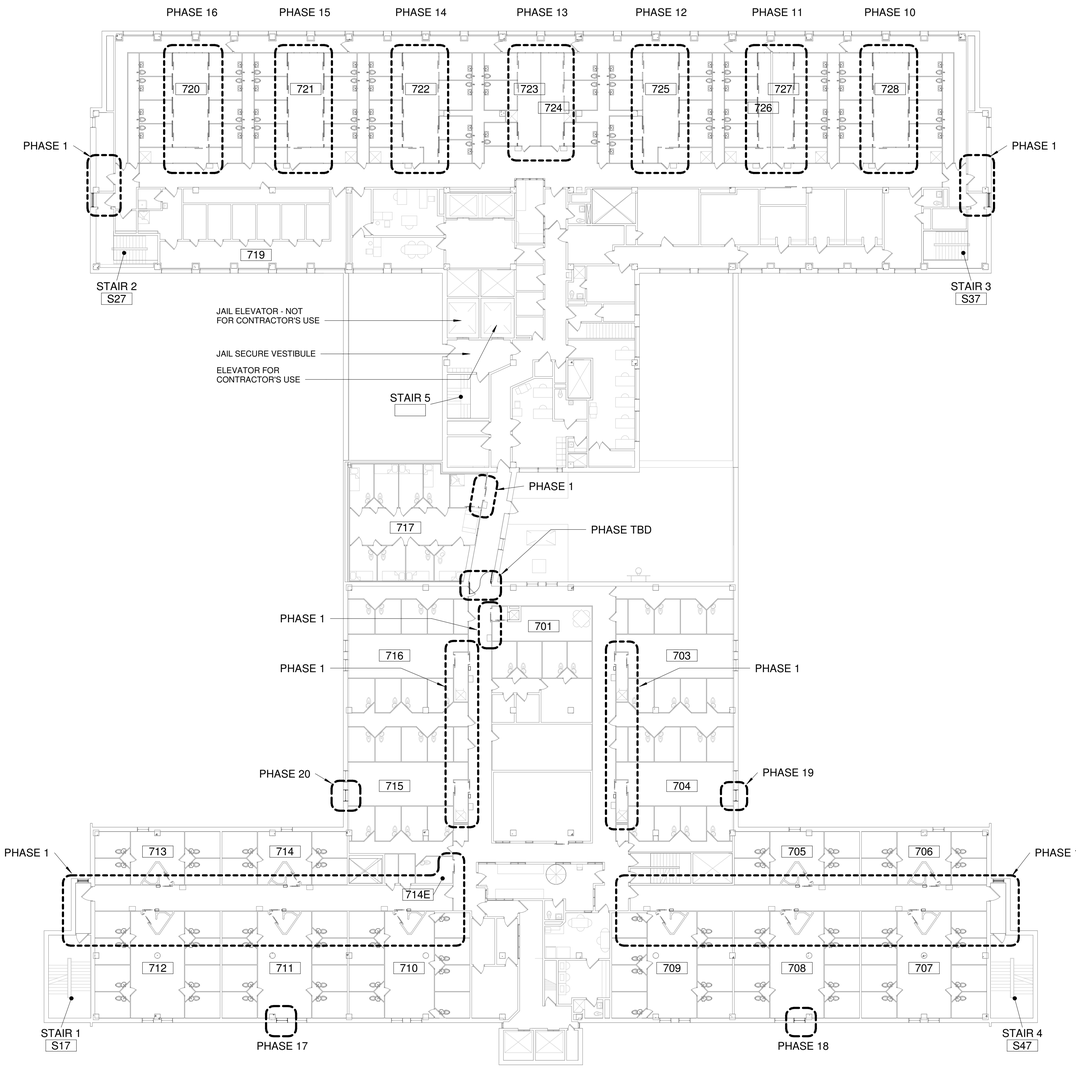


1 SIXTH FLOOR PHASING PLAN
A004 1/16" = 1'-0"

TRUE NORTH
PLAN NORTH



2 SEVENTH FLOOR PHASING PLAN
A004 1/16" = 1'-0"

TRUE NORTH
PLAN NORTH

PROPOSED WORK SCHEDULE. FINAL WORK SCHEDULE TO BE DETERMINED DURING PRE-CONSTRUCTION CONFERENCE.

PHASE	DURATION	DESCRIPTION OF WORK
1	6 WEEKS	LOCK REPLACEMENT AND CYLINDER/KEYING UPGRADES.
2	1 WEEK	SLIDING DOOR DEVICE UPGRADE INCLUDING CABINET LOCK REPLACEMENT AND OUTERDOOR (J-DOOR) LOCK REPLACEMENT.
3	1 WEEK	SLIDING DOOR DEVICE UPGRADE INCLUDING CABINET LOCK REPLACEMENT AND OUTERDOOR (J-DOOR) LOCK REPLACEMENT.
↓	"	
16	1 WEEK	
17	1 WEEK	DETENTION WINDOW REPLACEMENT
↓	"	
24	1 WEEK	

ADDITIONAL DOORS NOT DELINEATED ON ABOVE FLOOR PLANS ARE PART OF PHASE I. REFER TO DOOR SCHEDULE FOR DESCRIPTION OF WORK.

AFTER EACH PHASE, CLEANING AND PUNCHLIST TO BE COMPLETED BEFORE TURN-OVER TO OWNER. OWNER TO BE PROVIDED TWO DAYS BETWEEN PHASES FOR SHAKE-DOWN OF AREA, FINAL CLEANING AND INMATE MOVEMENT.

TDB - TO BE DETERMINED BASED ON GENERAL CONTRACTOR'S FINAL PROJECT SCHEDULE.

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PHASING PLANS

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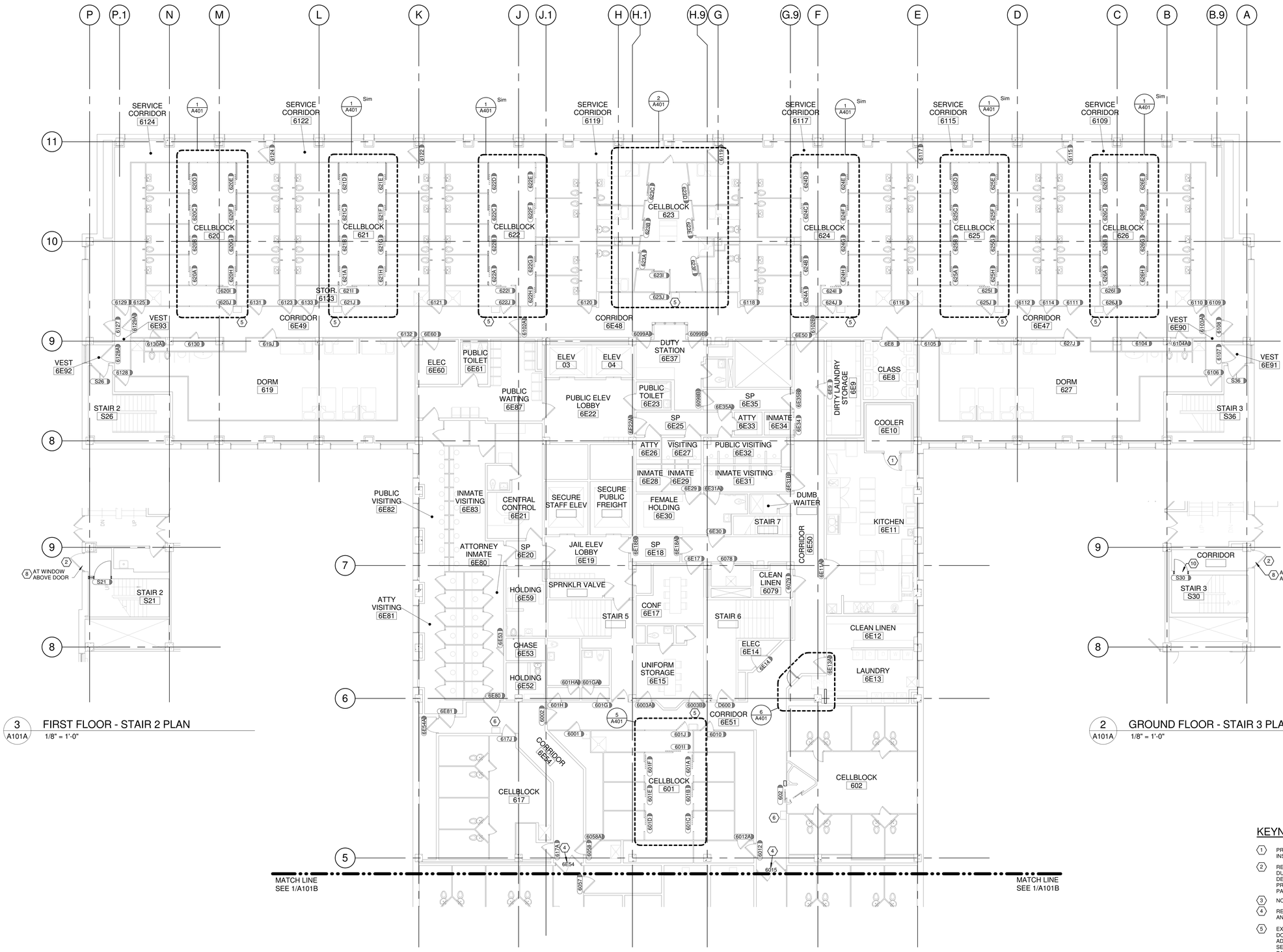
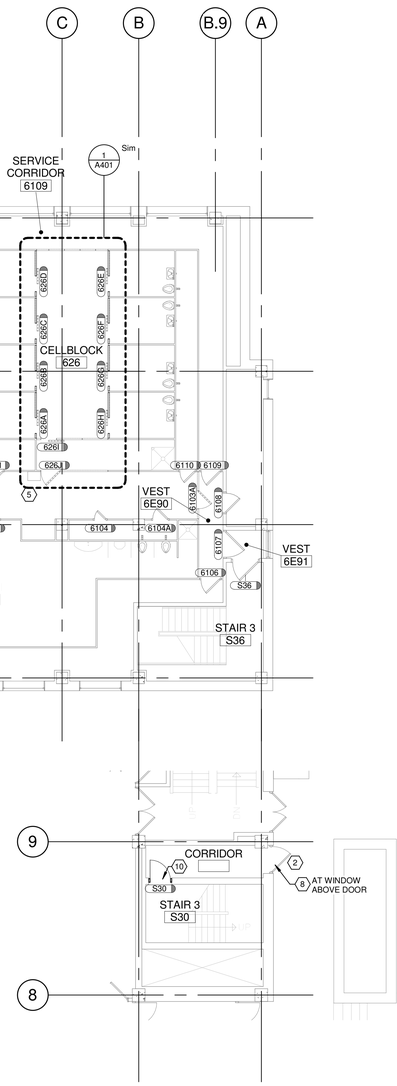


1 A101A SIXTH FLOOR PLAN - EAST
1/8" = 1'-0"

3 A101A FIRST FLOOR - STAIR 2 PLAN
1/8" = 1'-0"



2 A101A GROUND FLOOR - STAIR 3 PLAN
1/8" = 1'-0"

KEYNOTES

1. PROVIDE 10" X 10", 1" THICK, CLEAR, FULLY-TEMPERED, INSULATED WINDOW IN EXISTING 4" THK. COOLER DOOR.
2. REMOVE EXISTING EXIT DEVICE. PROVIDE NEW VON DURPIN 9875/9975 MORTISE LOCK TOUCH BAR EXIT DEVICE WITH KEYED ENTRANCE AND PULL ON EXTERIOR. PROVIDE COVER PLATES, CARRIAGE BOLTS, BOND PATCH AS REQUIRED TO COVER EXISTING PREP.
3. NOT USED
4. REMOVE PAINT FROM UL FIRE RATED LABEL AT FRAME AND DOOR EDGE.
5. EXISTING GANG RELEASE CABINET: REPLACE CABINET DOOR MECHANICAL LOCK AND ADJACENT SWING DOOR ADTEC 2121 MECHANICAL LOCK WITH FOLGER ADAMS 126 SERIES MECHANICAL LOCK - KEYCODE 1607, PARACENTRIC KEY TYPE. SEE DETENTION HARDWARE SPECIFICATION SCHEDULE: GROUP DH-3
6. EXISTING GANG RELEASE CABINET: REPLACE CABINET DOOR MECHANICAL LOCK, SEE DETENTION HARDWARE SPECIFICATION SCHEDULE: GROUP DH-4
7. REPLACE EXISTING DETENTION WINDOWS WITH OPERABLE DETENTION WINDOW WITH SCREEN. SEE 5/A501.
8. LOUVER BY G.C. IN EXISTING WALL OPENING. SEE MECH DWGS FOR SIZE AND LOCATION.
9. FIRE/SMOKE DAMPER (SEE HVAC) IN NEW WALL OPENING ABOVE DOOR
10. REMOVE EXISTING NON-RATED DOOR AND HARDWARE

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SHEET CONTENTS
SIXTH FLOOR PLAN - EAST

SHEET NO.:
A101A

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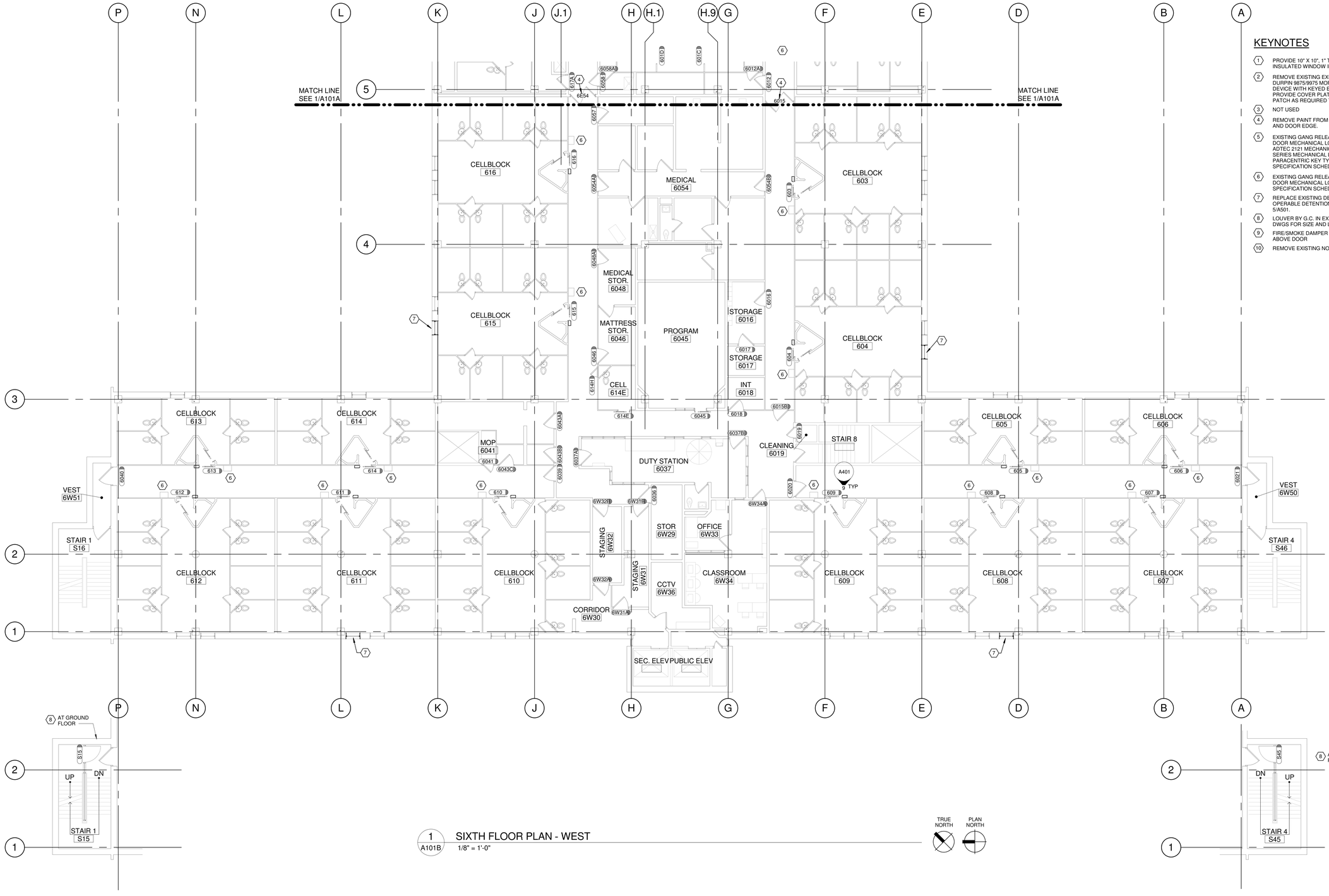

1 / A101B — SIXTH FLOOR PLAN - WEST
1/8" = 1'-0"

2 / A101B — FIFTH FLOOR PARTIAL PLAN - STAIR 1
1/8" = 1'-0"

3 / A101B — FIFTH FLOOR PARTIAL PLAN - STAIR 4
1/8" = 1'-0"

KEYNOTES

1. PROVIDE 10" X 10", 1" THICK, CLEAR, FULLY-TEMPERED, INSULATED WINDOW IN EXISTING 4" THK. COOLER DOOR.
2. REMOVE EXISTING EXIT DEVICE. PROVIDE NEW VON DURPIN 9875/9975 MORTISE LOCK TOUCH BAR EXIT DEVICE WITH KEYED ENTRANCE AND PULL ON EXTERIOR. PROVIDE COVER PLATES, CARRIAGE BOLTS, BOND PATCH AS REQUIRED TO COVER EXISTING PREP.
3. NOT USED
4. REMOVE PAINT FROM UL FIRE RATED LABEL AT FRAME AND DOOR EDGE.
5. EXISTING GANG RELEASE CABINET: REPLACE CABINET DOOR MECHANICAL LOCK AND ADJACENT SWING DOOR ADTEC 2121 MECHANICAL LOCK WITH FOLGER ADAMS 126 SERIES MECHANICAL LOCK - KEYCODE I607, PARACENTRIC KEY TYPE. SEE DETENTION HARDWARE SPECIFICATION SCHEDULE: GROUP DH-3
6. EXISTING GANG RELEASE CABINET: REPLACE CABINET DOOR MECHANICAL LOCK. SEE DETENTION HARDWARE SPECIFICATION SCHEDULE: GROUP DH-4
7. REPLACE EXISTING DETENTION WINDOWS WITH OPERABLE DETENTION WINDOW WITH SCREEN. SEE 5/A501.
8. LOUVER BY G.C. IN EXISTING WALL OPENING. SEE MECH DWGS FOR SIZE AND LOCATION.
9. FIRE/SMOKE DAMPER (SEE HVAC) IN NEW WALL OPENING ABOVE DOOR
10. REMOVE EXISTING NON-RATED DOOR AND HARDWARE

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SHEET CONTENTS
SIXTH FLOOR PLAN - WEST

SHEET NO.:
A101B

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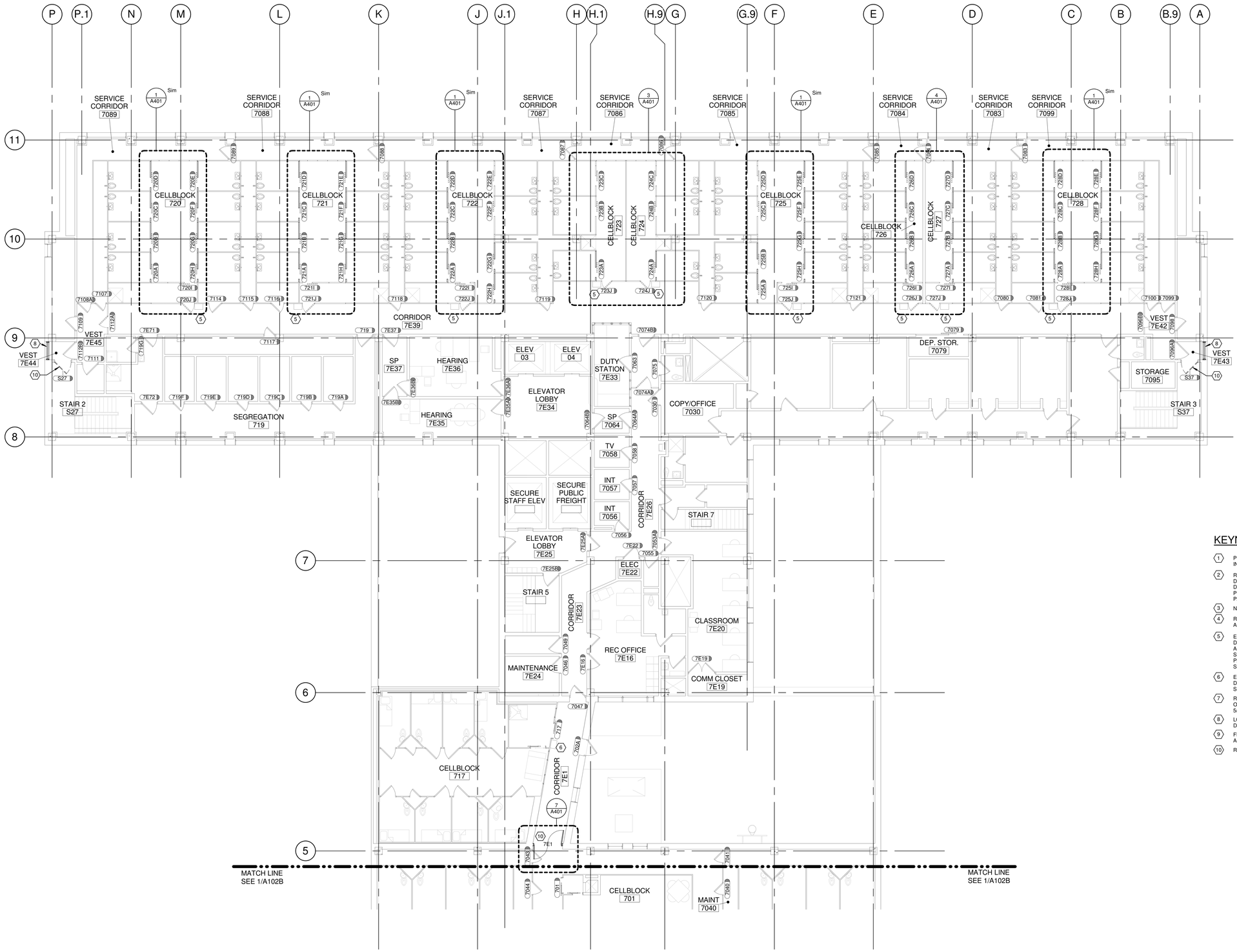

1 A102A SEVENTH FLOOR PLAN - EAST

1/8" = 1'-0"

TRUE NORTH PLAN NORTH

KEYNOTES

1. PROVIDE 10" X 10", 1" THICK, CLEAR, FULLY-TEMPERED, INSULATED WINDOW IN EXISTING 4" THK. COOLER DOOR.
2. REMOVE EXISTING EXIT DEVICE. PROVIDE NEW VON DURPIN 9875/9975 MORTISE LOCK TOUCH BAR EXIT DEVICE WITH KEYED ENTRANCE AND PULL ON EXTERIOR. PROVIDE COVER PLATES, CARRIAGE BOLTS, BOND PATCH AS REQUIRED TO COVER EXISTING PREP.
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6. EXISTING GANG RELEASE CABINET: REPLACE CABINET DOOR MECHANICAL LOCK. SEE DETENTION HARDWARE SPECIFICATION SCHEDULE: GROUP DH-4
7. REPLACE EXISTING DETENTION WINDOWS WITH OPERABLE DETENTION WINDOW WITH SCREEN. SEE 5/A501.
8. LOUVER BY G.C. IN EXISTING WALL OPENING. SEE MECH DWGS FOR SIZE AND LOCATION.
9. FIRE/SMOKE DAMPER (SEE HVAC) IN NEW WALL OPENING ABOVE DOOR
10. REMOVE EXISTING NON-RATED DOOR AND HARDWARE

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SHEET CONTENTS
SEVENTH FLOOR PLAN - EAST

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A102A

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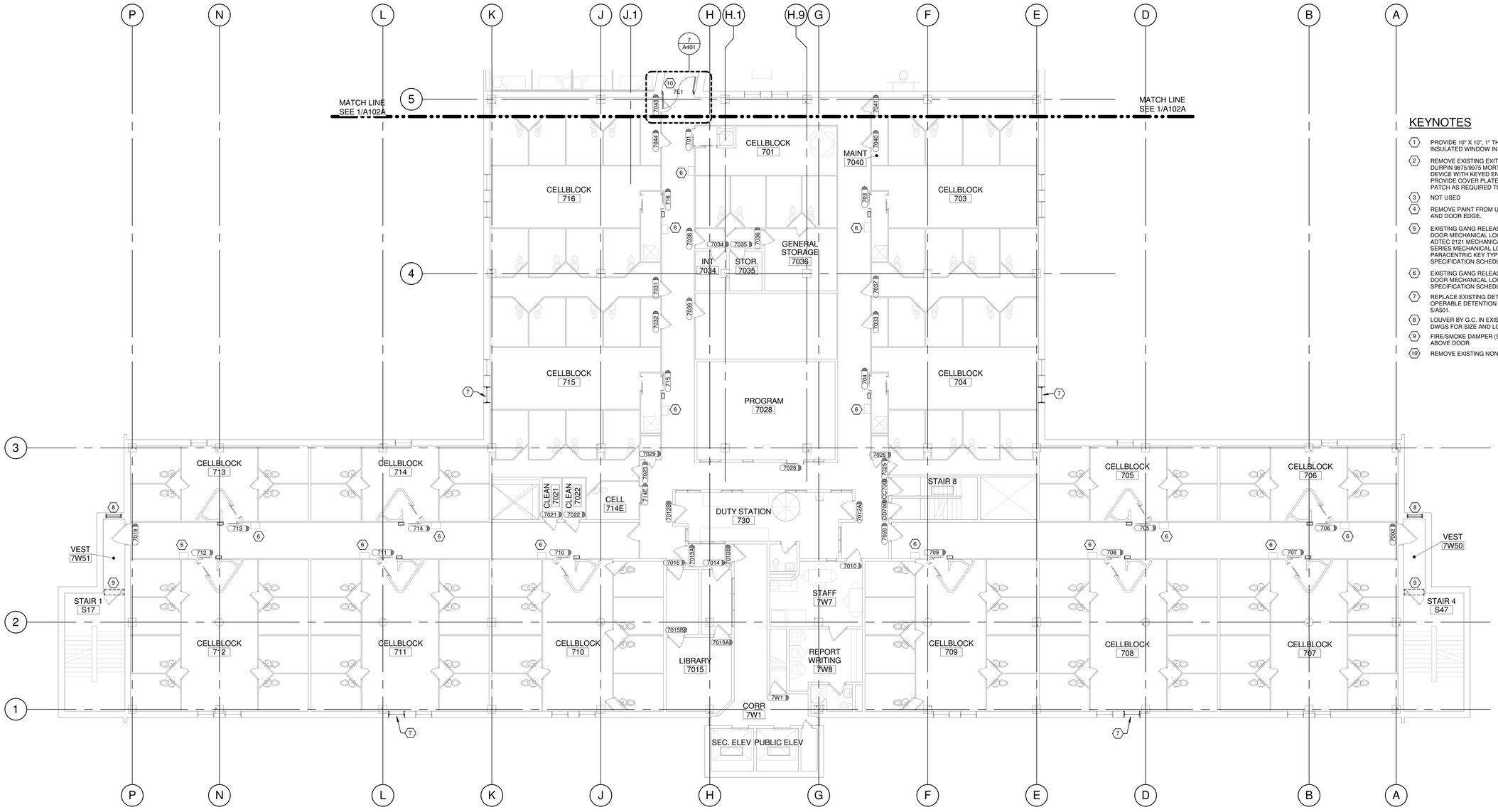

KEYNOTES

1. PROVIDE 10" X 10", 1" THICK, CLEAR, FULLY-TEMPERED, INSULATED WINDOW IN EXISTING 4" THK. COOLER DOOR.
2. REMOVE EXISTING EXIT DEVICE. PROVIDE NEW VON DURPIN 9975/9975 MORTISE LOCK TOUCH BAR EXIT DEVICE WITH KEYED ENTRANCE AND PULL ON EXTERIOR. PROVIDE COVER PLATES, CARRIAGE BOLTS, BOND PATCH AS REQUIRED TO COVER EXISTING PREP.
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10. REMOVE EXISTING NON-RATED DOOR AND HARDWARE

1 A102B SEVENTH FLOOR PLAN - WEST

1/8" = 1'-0"

TRUE NORTH

PLAN NORTH

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SHEET CONTENTS
SEVENTH FLOOR PLAN - WEST

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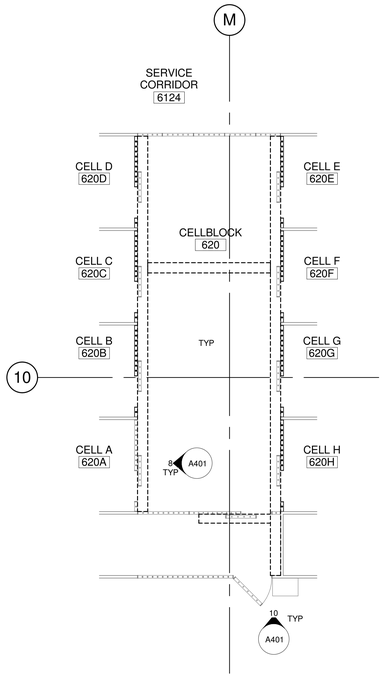
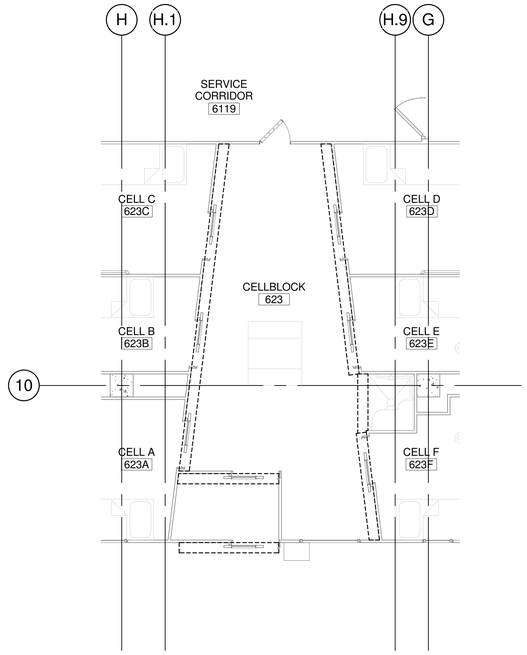
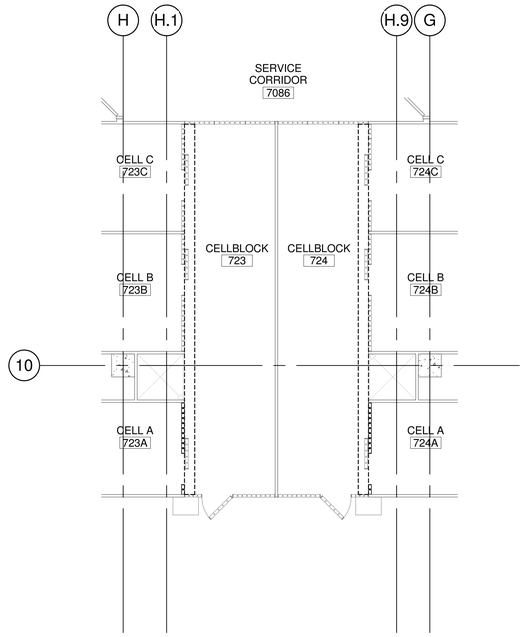


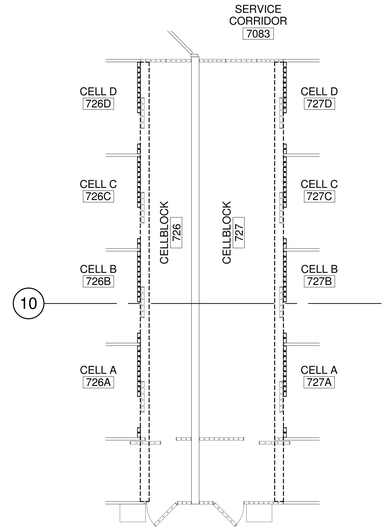
1 A401 CELLBLOCK ENLARGED PLAN - TYPE 1
1/4" = 1'-0"



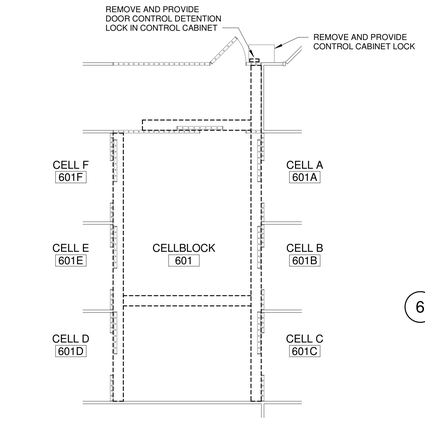
2 A401 CELLBLOCK ENLARGED PLAN - TYPE 2
1/4" = 1'-0"



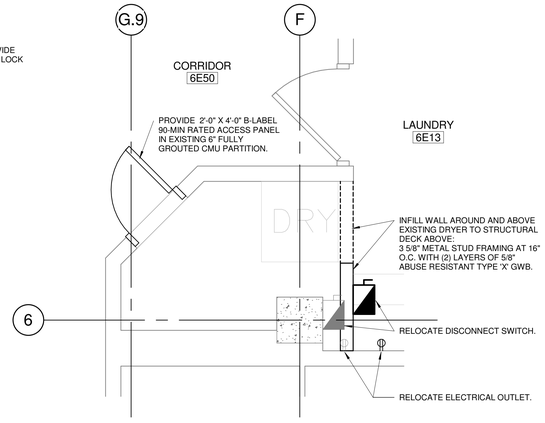
3 A401 CELLBLOCK ENLARGED PLAN - TYPE 3
1/4" = 1'-0"



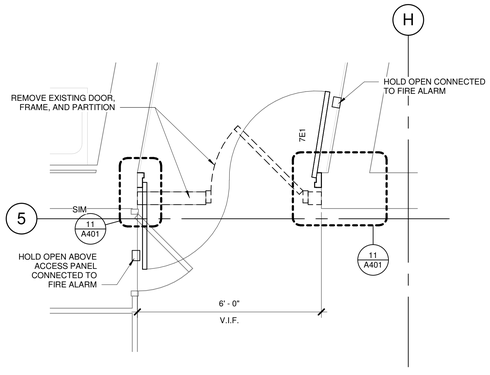
4 A401 CELLBLOCK ENLARGED PLAN - TYPE 4
1/4" = 1'-0"



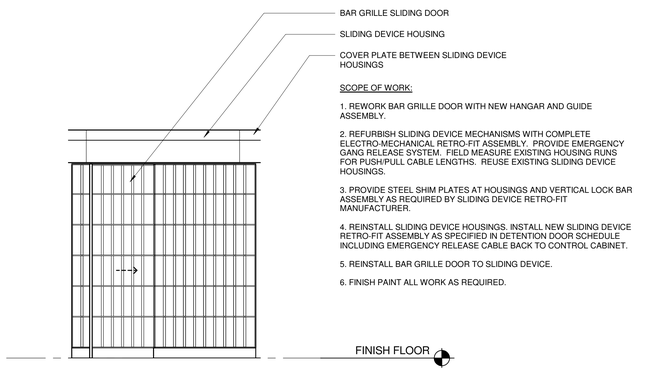
5 A401 CELLBLOCK ENLARGED PLAN - TYPE 5
1/4" = 1'-0"



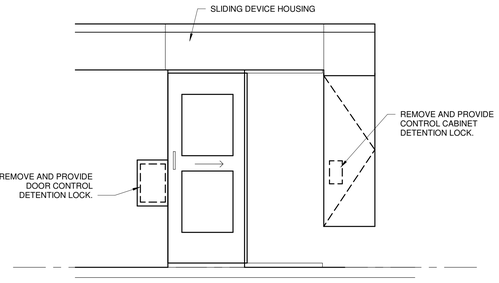
6 A401 LAUNDRY ALCOVE ENLARGED PLAN
1/2" = 1'-0"



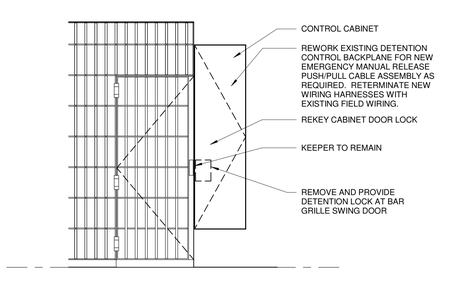
7 A401 HORIZONTAL EXIT ENLARGED PLAN
1/2" = 1'-0"



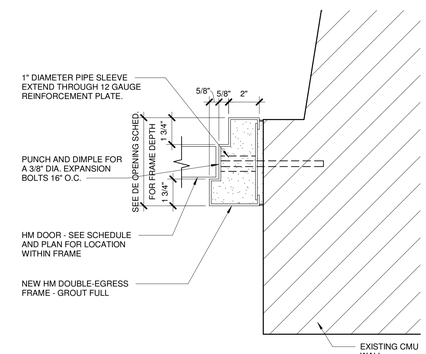
8 A401 BAR GRILLE SLIDING DOOR ELEVATION
1/2" = 1'-0"



9 A401 SLIDING DOOR ELEVATION @ WEST WING
1/2" = 1'-0"



10 A401 BAR GRILLE SWINGING DOOR ELEVATION
1/2" = 1'-0"



11 A401 HM DOUBLE-EGRESS DOOR JAMB
3" = 1'-0"

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

Potter Lawson
Success by Design

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

BID DOCUMENTS

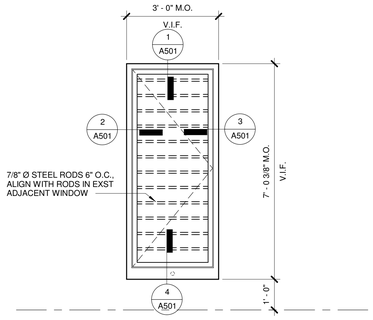
M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: JDH
DRAWN BY: MKH
CHECKED BY: JDH

DO NOT SCALE DRAWINGS

SHEET CONTENTS
ENLARGED PLANS

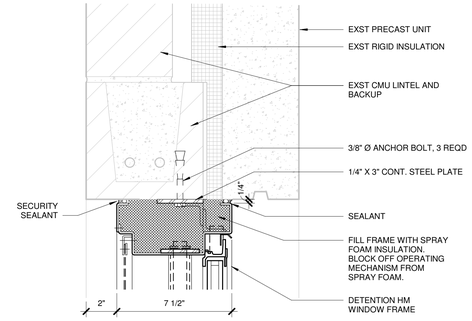
SHEET NO.:
A401

3/31/2017 9:23:05 AM C:\Users\matthewh\Documents\ Revit Local\DCSO Jail - CCB_Arch Central Model_mkhildebrandt.rvt



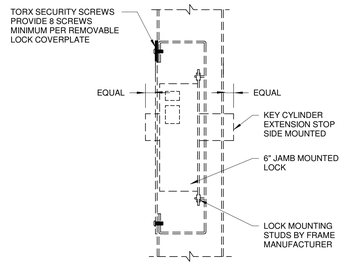
5 A501 WINDOW ELEVATION

1/2" = 1'-0"

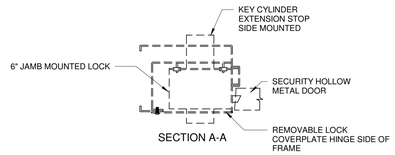


1 A501 DETENTION WINDOW HEAD

3" = 1'-0"



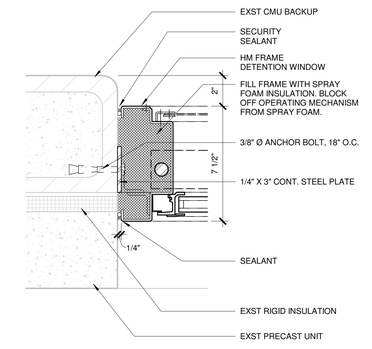
SECTION B-B



SECTION A-A

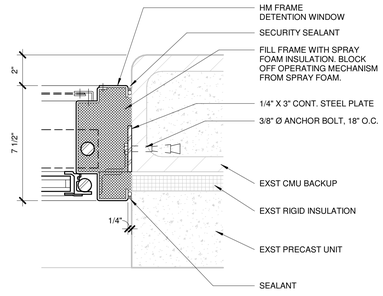
6 A501 ELECTRIC LOCK POCKET DETAIL - HINGE SIDE

1/4" = 1'-0"



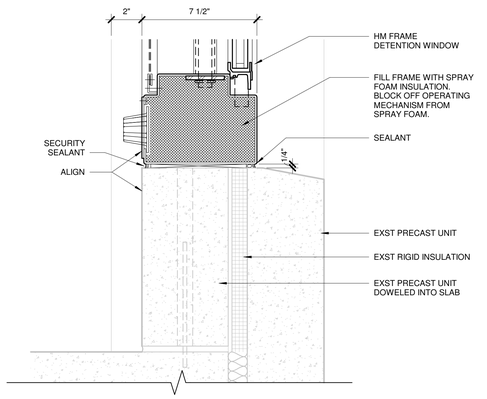
2 A501 DETENTION WINDOW JAMB

3" = 1'-0"



3 A501 DETENTION WINDOW HINGE JAMB

3" = 1'-0"



4 A501 DETENTION WINDOW SILL

3" = 1'-0"

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

Potter Lawson
Success by Design

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
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210 MARTIN LUTHER KING JR. BLVD
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ISSUED
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M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: JDH
DRAWN BY: MKH
CHECKED BY: JDH
DO NOT SCALE DRAWINGS.

SHEET CONTENTS
DETAILS

SHEET NO.:

A501

GENERAL NOTES:

1. INTEGRATE ALL NEW HARDWARE WITH EXISTING SECURITY SYSTEM ELECTRONICS.
2. AT NEW ELECTRO-MECHANICAL LOCK LOCATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPING NEW DETENTION LOCKS WITH MOLEX CONNECTORS TO MATCH EXISTING CONDITIONS
3. CONTRACTOR TO MASTER AND GRAND MASTER ALL BEST INTERCHANGABLE CORE KEY CYLINDER TO EXISTING MASTER AND GRAND MASTER CODES. COORDINATE WITH OWNER.
4. FIELD VERIFY EXISTING DOOR SIZES IF NECESSARY.
5. ALL DOORS ARE EXISTING TO BE MODIFIED, EXCEPT WHERE OTHERWISE NOTED.

NOTES:

1. RE-KEY EXISTING PARACENTRIC LOCK TO NEW KEY CODE.
2. RE-KEY EXISTING MOGUL LOCK TO NEW KEY CODE.
3. REPLACE ADTEC MOGUL LOCK WITH NEW FOLGER ADAM EQUIVALENT.
4. REPLACE HYBRID FA LOCK & BEST CYLINDER WITH NEW FA MOGUL CYLINDER.
5. REPLACE PARACENTRIC KEY CYLINDER AND LEVER TUMBLERS IN EXISTING ADTEC LOCK WITH NEW FOLGER ADAM PARACENTRIC KEY CYLINDER AND LEVEL TUMBLERS.
6. RE-KEY EXISTING BUILDER'S HARDWARE TO NEW KEY CODE. CONTRACTOR TO PROVIDE INTERCHANGABLE CORE.
7. PROVIDE MOGUL CYLINDER.
8. REPLACE EXISTING ELECTRO-MECHANICAL DETENTION LOCK WITH NEW.
9. NEW HM DOUBLE-EGRESS DOOR AND FRAME, SEE 11/A401 FOR JAMB DETAIL.
10. NEW SWING GATE SIMILAR TO EXISTING DOORS S15 AND S45.
11. PROVIDE NEW DETENTION HOLLOW METAL LOCK POCKET.
12. EXISTING SWING GATE AND ENCLOSURE.
13. PROVIDE DOOR AND FRAME PREP FOR NEW LOCK.
14. CONTRACTOR TO VERIFY DOOR GAUGE AND THICKNESS. REWORK DOOR FOR NEW DETENTION LOCK.
15. DELETE CLOSER AND FLOOR STOP (STEEL ANGLE). PROVIDE LCN 4210 CLOSER AND PORTLAND SECURITY HARDWARE PSH-760 DOOR STOP (OR EQUAL).
16. REPLACE MEDECO MORTISE KEY CYLINDER WITH BEST INTERCHANGEABLE CORE CYLINDER.
17. SEE DETAIL 6/A501 FOR LOCK MOUNTING IN NEW LOCK POCKET IN EXISTING FRAME.
18. EXISTING BEST CYLINDER/MORTISE LOCKSET.
19. REPLACE HYRID BEST/MOGUL CYLINDER WITH NEW MOGUL CYLINDER.
20. REPLACE EXISTING BEST CYLINDRICAL PASSAGE SET WITH NEW BEST CYLINDRICAL LOCK. PROVIDE STOREROOM FUNCTION.
21. PROVIDE NEW HYBRID MOGUL/BEST KEY CYLINDER WITH INTERCHANGEABLE CORE.
22. EXISTING HYBRID MOGUL/BEST KEY CYLINDER TO REMAIN. PROVIDE NEW INTERCHANGEABLE CORE.
23. ADTEC PARACENTRIC LOCK ON RHR DOOR TO REMAIN. PROVIDE BLANK COVER PLATE OVER PARACENTRIC KEY CYLINDER ON HINGE SIDE. REMOVE LEVER HANDLE AND PATCH HOLE ON HINGE SIDE.
24. REWORK LHR DOOR FOR NEW DETENTION MORTISE LOCK. MOUNT LOCK ABOVE EXISTING CREMONE LOCK PREP.
25. UPGRADE SCHLAGE CYLINDRICAL LOCK WITH NEW BEST CYLINDRICAL LOCK WITH INTERCHANGEABLE CORE.
26. REKEY TO EXISTING MASTER AND GRAND MASTER CODES. PROVIDE INTERCHANGEABLE CORE.
27. REMOVE DOOR PANEL.

DE DOOR SCHEDULE - GROUND, 1ST, 5TH & 6TH FLOORS

Opening Number	Door information Width	Height	Label	Hdwr Group	Lock Mounting	Existing Lock	Key Code	Key Type	Notes
GROUND FLOOR									
S30	2' - 8"	7' - 0"			1		E633	P	10
GROUND FLOOR: 1 Door Total									
FIRST FLOOR									
S21	3' - 4"	7' - 0"			1		E633	P	10
FIRST FLOOR: 1 Door Total									
FIFTH FLOOR									
S15	3' - 4"	6' - 6"			1	86	E633	P	1, 12
S45	3' - 4"	6' - 6"			1	86	E633	P	1, 12
FIFTH FLOOR: 2 Doors Total									
SIXTH FLOOR									
6E8	3' - 0"	7' - 0"			7	2121	I 607	M	3
6E9	2' - 4"	7' - 0"			7	2121	I 607	M	3
6E11A	3' - 8"	7' - 0"		DH-12	21	-	I 607	M	14, 18
6E13A	3' - 0"	7' - 0"		DH-12	20	-	I 607	M	14, 18
6E14	3' - 0"	7' - 0"			20	-	S10	C	6, 18
6E17	3' - 0"	7' - 0"			19	110-02	I 607	M	2
6E18A	3' - 0"	7' - 0"		DH-8	7	2121	E612	M	11
6E18B	2' - 10"	7' - 0"		DH-9	7	56E	E633	M	8, 11
6E22A	3' - 0"	7' - 0"		DH-10	7	126	E612	M	11, 17
6E29	3' - 0"	7' - 0"			9	2121	I 607	M	3
6E30	3' - 0"	7' - 0"			9	2121	I 607	M	3
6E31A	3' - 0"	7' - 0"			9	2121	I 607	M	3
6E31B	3' - 0"	7' - 0"			19	2110-1	I 607	M	3
6E34	2' - 6"	8' - 0"			15	36	I 607	P	1
6E35A	2' - 6"	7' - 0"		DH-10	7	126	E612	M	11, 17
6E35B	3' - 0"	7' - 0"			7	2121	S49BC4	M	3
6E50	3' - 6"	7' - 0"			7	56E	E612	P	1
6E53	2' - 0"	7' - 0"			4	4012	S49BC4	P	1
6E54	5' - 0"	7' - 0"	90						
6E54A	2' - 8"	7' - 0"			2	4076	S49BC4	P	5
6E60	3' - 0"	7' - 0"			1	4076	S49BC4	P	5
6E80	3' - 0"	7' - 0"			7	2121	I 607	M	3
6E81	3' - 0"	7' - 0"			20	110-01	S49BC4	M	2
6W31A	3' - 0"	7' - 0"			12	2121	I 607	M	3
6W31B	3' - 0"	7' - 0"		DH-9	12	126	I 607	M	11
6W32A	3' - 0"	7' - 0"			7	126	I 607	M	2
6W32B	3' - 0"	7' - 0"		DH-9	12	126	I 607	M	11
6W34A	2' - 6"	7' - 0"			7	126	I 607	M	2
601A	2' - 9"	6' - 4"		DH-1					
601B	2' - 9"	6' - 4"		DH-1					
601C	2' - 9"	6' - 4"		DH-1					
601D	2' - 9"	6' - 4"		DH-1					
601E	2' - 9"	6' - 4"		DH-1					
601F	2' - 9"	6' - 4"		DH-1					
601G	2' - 0"	7' - 0"			1	66	I 607	P	1
601GA	2' - 0"	7' - 0"			4	62	I 607	P	1
601H	2' - 0"	7' - 0"			1	66	I 607	P	1
601HA	2' - 0"	7' - 0"			4	62	I 607	P	1
601I	3' - 0"	6' - 4"		DH-2					
601J	2' - 4"	6' - 4"		DH-5			I 607	M	
602	4' - 0"	6' - 4"		DH-7	9		I 607	P	
603	4' - 0"	6' - 4"		DH-7	18		I 607	P	
604	4' - 0"	6' - 4"		DH-7	18		I 607	P	
605	4' - 0"	6' - 4"		DH-7	18		E612	P	
606	4' - 0"	6' - 4"		DH-7	19		I 607	P	
607	4' - 0"	6' - 4"		DH-7	18		I 607	P	
608	4' - 0"	6' - 4"		DH-7	18		I 607	P	
609	4' - 0"	6' - 4"		DH-7	18		I 607	P	
610	4' - 0"	6' - 4"		DH-7	18		I 607	P	
611	4' - 0"	6' - 4"		DH-7	18		I 607	P	
612	4' - 0"	6' - 4"		DH-7	18		I 607	P	
613	4' - 0"	6' - 4"		DH-7	18		I 607	P	
614	4' - 0"	6' - 4"		DH-7	18		I 607	P	
614E	4' - 0"	7' - 0"			16	32	I 607	P	1
614H	2' - 0"	7' - 0"			4	12	S49BC4	P	1
615	4' - 0"	6' - 4"		DH-7	18		I 607	P	
616	4' - 0"	6' - 4"		DH-7	18		I 607	P	
617A	2' - 8"	7' - 0"			19	110-02	S49BC4	M	2
617J	2' - 6"	7' - 0"		DH-11	9		I 607	P	13
619J	2' - 6"	7' - 0"			4	62	I 607	P	1
620A	2' - 0"	6' - 4"		DH-1					
620B	2' - 0"	6' - 4"		DH-1					
620C	2' - 0"	6' - 4"		DH-1					
620D	2' - 0"	6' - 4"		DH-1					
620E	2' - 0"	6' - 4"		DH-1					
620F	2' - 0"	6' - 4"		DH-1					
620G	2' - 0"	6' - 4"		DH-1					
620H	2' - 0"	6' - 4"		DH-1					
620I	2' - 0"	6' - 4"		DH-2					
620J	2' - 6"	6' - 3"			9	122	I 607	M	2
621A	2' - 0"	6' - 4"		DH-1					
621B	2' - 0"	6' - 4"		DH-1					
621C	2' - 0"	6' - 4"		DH-1					
621D	2' - 0"	6' - 4"		DH-1					
621E	2' - 0"	6' - 4"		DH-1					
621F	2' - 0"	6' - 4"		DH-1					
621G	2' - 0"	6' - 4"		DH-1					
621H	2' - 0"	6' - 4"		DH-1					
621I	2' - 0"	6' - 4"		DH-2					
621J	2' - 6"	6' - 3"			9	122	I 607	M	2
622A	2' - 0"	6' - 4"		DH-1					
622B	2' - 0"	6' - 4"		DH-1					
622C	2' - 0"	6' - 4"		DH-1					
622D	2' - 0"	6' - 4"		DH-1					
622E	2' - 0"	6' - 4"		DH-1					
622F	2' - 0"	6' - 4"		DH-1					
622G	2' - 0"	6' - 4"		DH-1					
622H	2' - 0"	6' - 4"		DH-1					
622I	2' - 0"	6' - 4"		DH-2					
622J	2' - 0"	6' - 4"			9	122	I 607	M	2
623A	3' - 4"	7' - 0"		DH-1					
623B	3' - 4"	7' - 0"		DH-1					
623C	3' - 4"	7' - 0"		DH-1					
623D	3' - 4"	7' - 0"		DH-1					
623E	3' - 4"	7' - 0"		DH-1					
623F	3' - 4"	7' - 0"		DH-1					
623I	3' - 4"	7' - 0"		DH-2					
623J	3' - 4"	7' - 0"		DH-1					

DE DOOR SCHEDULE - GROUND, 1ST, 5TH & 6TH FLOORS

Opening Number	Door information Width	Height	Label	Hdwr Group	Lock Mounting	Existing Lock	Key Code	Key Type	Notes
624A	2' - 0"	6' - 4"		DH-1					
624B	2' - 0"	6' - 4"		DH-1					
624C	2' - 0"	6' - 4"		DH-1					
624D	2' - 0"	6' - 4"		DH-1					
624E	2' - 0"	6' - 4"		DH-1					
624F	2' - 0"	6' - 4"		DH-1					
624G	2' - 0"	6' - 4"		DH-1					
624H	2' - 0"	6' - 4"		DH-1					
624I	2' - 0"	6' - 4"		DH-2					
624J	2' - 0"	6' - 4"			9	122	I 607	M	2
625A	2' - 0"	6' - 4"		DH-1					
625B	2' - 0"	6' - 4"		DH-1					
625C	2' - 0"	6' - 4"		DH-1					
625D	2' - 0"	6' - 4"		DH-1					
625E	2' - 0"	6' - 4"		DH-1					
625F	2' - 0"	6' - 4"		DH-1					
625G	2' - 0"	6' - 4"		DH-1					
625H	2' - 0"	6' - 4"		DH-1					
625I	2' - 0"	6' - 4"		DH-2					
625J	2' - 6"	6' - 3"			9	122	I 607	M	2
626A	2' - 0"	6' - 4"		DH-1					
626B	2' - 0"	6' - 4"		DH-1					
626C	2' - 0"	6' - 4"		DH-1					
626D	2' - 0"	6' - 4"		DH-1					
626E	2' - 0"	6' - 4"		DH-1					
626F	2' - 0"	6' - 4"		DH-1					
626G	2' - 0"	6' - 4"		DH-1					
626H	2' - 0"	6' - 4"		DH-1					
626I	2' - 0"	6' - 4"		DH-2					
626J	2' - 6"	6' - 3"			9	122	I 607	M	2
627J	2' - 6"	7' - 0"			4	62	I 607	P	1
6001	2' - 4"	7' - 0"			2	66	S49BC4	P	1
6002	2' - 8"	7' - 0"			1	76	E612	P	1
6003A	2' - 6"	7' - 0"							No work.
6003B	2' - 6"	7' - 0"							No work.
6010	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6012	2' - 6"	7' - 0"			21	110-01	I 607	M	2
6012A	2' - 4"	7' - 0"			4	12	S49BC4	P	1
6015	5' - 8"	7' - 0"	90						
6015B	3' - 0"	7' - 0"			1	76	E612	P	1
6016	3' - 0"	7' - 0"			21	110-01	I 607	M	2
6017	3' - 0"	7' - 0"			20	110-01	S49BC4	M	2
6018	3' - 0"	7' - 0"			21	110-01	I 607	M	2
6019	2' - 0"	7' - 0"		DH-14	20	110-01	S10	C	2, 21
6020	3' - 0"	7' - 0"		DH-15	20		E612	C	
6021	3' - 6"	7' - 0"			7	56	E612	P	1
6036	3' - 0"	7' - 0"			7	126	S49BC4	M	2
6037A	3' - 0"	7' - 0"			21	110-01	S49BC4	M	2
6037B	3' - 0"	7' - 0"			21	110-01	S49BC4	M	2
6039	3' - 0"	7' - 0"		DH-13	19		E612	M	14
6040	3' - 6"	7' - 0"			7	56	E612	P	1
6041	2' - 0"	7' - 0"		DH-14	20	110-01	S10	C	2, 21
6043A	3' - 0"	7' - 0"			21	110-01	S10	C	22
6043B	3' - 0"	7' - 0"			21		S10	C	6, 18
6043C	3' - 0"	7' - 0"			21		S10	C	6, 18
6045	4' - 0"	7' - 0"			16	32	I 607	P	1
6046	3' - 0"	7' - 0"			21	110-01	I 607	M	4
6048A	3' - 0"	7' - 0"							
6054A	3' - 0"	7' - 0"			19	110-02	I 607	M	2
6054B	3' - 0"	7' - 0"			19	110-02	I 607	M	2
6057	3' - 0"	7' - 0"			21	110-01	I 607	M	2
6058	2' - 6"	7' - 0"			20	110-01	I 607	M	2
6058A	2' - 4"	7' - 0"							
6078	2' - 6"	7' - 0"			21	110-01	I 607	M	7
6079	3' - 0"	7' - 0"			20	110-01	I 607	M	19
6098B	3' - 0"	7' - 0"			1	66	S49BC4	P	1
6099A	2' - 6"	7' - 0"							No work.
6099B	2' - 6"	7' - 0"			1	66	S49BC4	P	1
6102A	3' - 0"	8' - 0"			7	56E	E612	P	1
6102B	3' - 0"	8' - 0"			7	56E	E612	P	1
6103A	2' - 4"	6' - 4"		DH-8	1	56E	S49BC4	P	8, 11
6104	1' - 6"	7' - 0"			4	12	S49BC4	P	1
6104A	2' - 0"	7' - 0"			4	4017	S49BC4	P	
6105	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6106	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6107	3' - 4"	6' - 8"	90		1	66	E612	P	1
6108	2' - 6"	7' - 0"			21	110-01	S49BC4	M	2
6109	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6110	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6111	2' - 4"	7' - 0"			4	62	I 607	P	1
6112	2' - 4"	7' - 0"			4	62	I 607	P	1
6114	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6115	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6116	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6117	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6118	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6119	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6120	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6121	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6122	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6123	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6124	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6125	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6127	2' - 6"	7' - 0"			21	110-01	S49BC4	M	2
6128	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6128A	3' - 4"	6' - 8"	90		1	66	E612	P	1
6129	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6129A	2' - 4"	6' - 4"		DH-8	7	56E	S49BC4	P	8, 11
6130	1' - 6"	7' - 0"			4	12	S49BC4	P	1
6130A	2' - 0"	7' - 0"			4	12	S49BC4	P	1
6131	2' - 4"	7' - 0"			4	62	I 607	P	1
6132	2' - 6"	7' - 0"			2	66	S49BC4	P	1
6133	2' - 4"	7' - 0"			4	62	S49BC4	P	1
D600	3' - 0"	7' - 0"			2	86	E612	P	1
S26	3' - 4"	6' - 8"		-					No work.
S36	3' - 4"	6' - 8"		-					No work.
SIXTH FLOOR: 204 Doors Total									

Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

Potter Lawson
Success by Design

COUNTY of DANE WISCONSIN

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

BID DOCUMENTS

M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: JDH
DRAWN BY: MKH
CHECKED BY: JDH
DO NOT SCALE DRAWINGS

SHEET CONTENTS
DOOR SCHEDULE

SHEET NO.:
A601

GENERAL NOTES:

1. INTEGRATE ALL NEW HARDWARE WITH EXISTING SECURITY SYSTEM ELECTRONICS.
2. AT NEW ELECTRO-MECHANICAL LOCK LOCATIONS CONTRACTOR SHALL BE RESPONSIBILE FOR EQUIPING NEW DETENTION LOCKS WITH MOLEX CONNECTORS TO MATCH EXISTING CONDITIONS
3. CONTRACTOR TO MASTER AND GRAND MASTER ALL BEST INTERCHANGABLE CORE KEY CYLINDER TO EXISTING MASTER AND GRAND MASTER CODES. COORDINATE WITH OWNER.
4. FIELD VERIFY EXISTING DOOR SIZES IF NECESSARY.
5. ALL DOORS ARE EXISTING TO BE MODIFIED, EXCEPT WHERE OTHERWISE NOTED.

NOTES:

1. RE-KEY EXISTING PARACENTRIC LOCK TO NEW KEY CODE.
2. RE-KEY EXISTING MOGUL LOCK TO NEW KEY CODE.
3. REPLACE ADTEC MOGUL LOCK WITH NEW FOLGER ADAM EQUIVALENT.
4. REPLACE HYBRID FA LOCK & BEST CYLINDER WITH NEW FA MOGUL CYLINDER.
5. REPLACE PARACENTRIC KEY CYLINDER AND LEVER TUMBLERS IN EXISTING ADTEC LOCK WITH NEW FOLGER ADAM PARACENTRIC KEY CYLINDER AND LEVEL TUMBLERS.
6. RE-KEY EXISTING BUILDER'S HARDWARE TO NEW KEY CODE. CONTRACTOR TO PROVIDE INTERCHANGABLE CORE.
7. PROVIDE MOGUL CYLINDER.
8. REPLACE EXISTING ELECTRO-MECHANICAL DETENTION LOCK WITH NEW.
9. NEW HM DOUBLE-EGRESS DOOR AND FRAME, SEE 11/A401 FOR JAMB DETAIL.
10. NEW SWING GATE SIMILAR TO EXISTING DOORS S15 AND S45.
11. PROVIDE NEW DETENTION HOLLOW METAL LOCK POCKET.
12. EXISTING SWING GATE AND ENCLOSURE.
13. PROVIDE DOOR AND FRAME PREP FOR NEW LOCK.
14. CONTRACTOR TO VERIFY DOOR GAUGE AND THICKNESS. REWORK DOOR FOR NEW DETENTION LOCK.
15. DELETE CLOSER AND FLOOR STOP (STEEL ANGLE). PROVIDE LCN 4210 CLOSER AND PORTLAND SECURITY HARDWARE PSH-760 DOOR STOP (OR EQUAL).
16. REPLACE MEDECO MORTISE KEY CYLINDER WITH BEST INTERCHANGEABLE CORE CYLINDER.
17. SEE DETAIL 6/A501 FOR LOCK MOUNTING IN NEW LOCK POCKET IN EXISTING FRAME.
18. EXISTING BEST CYLINDER/MORTISE LOCKSET.
19. REPLACE HYRID BEST/MOGUL CYLINDER WITH NEW MOGUL CYLINDER.
20. REPLACE EXISTING BEST CYLINDRICAL PASSAGE SET WITH NEW BEST CYLINDRICAL LOCK. PROVIDE STOREROOM FUNCTION.
21. PROVIDE NEW HYBRID MOGUL/BEST KEY CYLINDER WITH INTERCHANGEABLE CORE.
22. EXISTING HYBRID MOGUL/BEST KEY CYLINDER TO REMAIN. PROVIDE NEW INTERCHANGEABLE CORE.
23. ADTEC PARACENTRIC LOCK ON RHR DOOR TO REMAIN. PROVIDE BLANK COVER PLATE OVER PARACENTRIC KEY CYLINDER ON HINGE SIDE. REMOVE LEVER HANDLE AND PATCH HOLE ON HINGE SIDE.
24. REWORK LHR DOOR FOR NEW DETENTION MORTISE LOCK. MOUNT LOCK ABOVE EXISTING CREMONE LOCK PREP.
25. UPGRADE SCHLAGE CYLINDRICAL LOCK WITH NEW BEST CYLINDRICAL LOCK WITH INTERCHANGEABLE CORE.
26. REKEY TO EXISTING MASTER AND GRAND MASTER CODES. PROVIDE INTERCHANGEABLE CORE.
27. REMOVE DOOR PANEL.

DE DOOR SCHEDULE - 7TH FLOOR

Opening Number	Door information		Label	Hdwr Group	Lock Mounting	Existing Lock	Key Code	Key Type	Notes
	Width	Height							
SEVENTH FLOOR									
7E1	5' - 8"	7' - 4"	90	HG-1	-	-	-		9
7E16	3' - 0"	7' - 0"			19	-	S49BC4	C	6, 18
7E19	5' - 4"	7' - 0"		DH-13	20/5		S49BC4/S49BC4	P / M	5, 23, 24
7E22	3' - 0"	7' - 0"			20	110-01	S49BC4	M	2
7E25A	3' - 0"	7' - 0"		DH-9	7	126M	E612	M	11
7E25B	3' - 0"	7' - 0"	45		7	2121	E612	M	3
7E35A	2' - 10"	7' - 0"			9	122	E612	M	3
7E35B	2' - 10"	7' - 0"		DH-9	7	-	I 607	M	11
7E36A	2' - 10"	7' - 0"			9	122	E612	M	3
7E36B	2' - 10"	7' - 0"		DH-9	7	-	I 607	M	11
7E37	2' - 10"	7' - 0"			7	2121	I 607	M	3
7E71	3' - 0"	7' - 0"			21	110-01	I 607	M	2
7E72	3' - 0"	7' - 0"			7	2121	I 607	M	3
7W1	2' - 8"	7' - 0"							
701	3' - 4"	7' - 0"		DH-7	9	-	I 607	P	
702A	3' - 0"	7' - 0"			19	110-02	I 607	M	2
703	4' - 0"	7' - 0"		DH-7	9	-	I 607	P	
704	4' - 0"	7' - 0"		DH-7	9	-	I 607	P	
705	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
706	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
707	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
708	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
709	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
710	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
711	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
712	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
713	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
714	4' - 0"	6' - 4"		DH-7	9	-	I 607	P	
714E	3' - 4"	7' - 0"			18	32	I 607	P	1
715	4' - 0"	7' - 0"		DH-7	9	-	I 607	P	
716	4' - 0"	7' - 0"		DH-7	9	-	I 607	P	
717	3' - 4"	7' - 0"		DH-7	9	-	I 607	P	
719	3' - 0"	7' - 0"			21	110-01	I 607	M	2
719A	2' - 0"	7' - 0"			19	-	I 607	C	6, 18
719B	2' - 0"	7' - 0"			24	NS402E	I 607	C	16
719C	2' - 0"	7' - 0"			24	NS402E	I 607	C	16
719D	2' - 0"	7' - 0"			24	NS402E	I 607	C	16
719E	2' - 0"	7' - 0"			24	NS402E	I 607	C	16
719F	2' - 0"	7' - 0"			24	NS402E	I 607	C	16
719G	2' - 6"	7' - 0"			21	-	S49BC4	M	2
720A	2' - 0"	6' - 4"		DH-1				-	
720B	2' - 0"	6' - 4"		DH-1				-	
720C	2' - 0"	6' - 4"		DH-1				-	
720D	2' - 0"	6' - 4"		DH-1				-	
720E	2' - 0"	6' - 4"		DH-1				-	
720F	2' - 0"	6' - 4"		DH-1				-	
720G	2' - 0"	6' - 4"		DH-1				-	
720H	2' - 0"	6' - 4"		DH-1				-	
720I	2' - 0"	6' - 4"		DH-2				-	
720J	2' - 6"	6' - 3"			9	122	I 607	M	2
721A	2' - 0"	6' - 4"		DH-1				-	
721B	2' - 0"	6' - 4"		DH-1				-	
721C	2' - 0"	6' - 4"		DH-1				-	
721D	2' - 0"	6' - 4"		DH-1				-	
721E	2' - 0"	6' - 4"		DH-1				-	
721F	2' - 0"	6' - 4"		DH-1				-	
721G	2' - 0"	6' - 4"		DH-1				-	
721H	2' - 0"	6' - 4"		DH-1				-	
721I	2' - 0"	6' - 4"		DH-2				-	
721J	2' - 6"	6' - 3"			9	122	I 607	M	2
722A	2' - 0"	6' - 4"		DH-1				-	
722B	2' - 0"	6' - 4"		DH-1				-	
722C	2' - 0"	6' - 4"		DH-1				-	
722D	2' - 0"	6' - 4"		DH-1				-	
722E	2' - 0"	6' - 4"		DH-1				-	
722F	2' - 0"	6' - 4"		DH-1				-	
722G	2' - 0"	6' - 4"		DH-1				-	
722H	2' - 0"	6' - 4"		DH-1				-	
722I	2' - 0"	6' - 4"		DH-2				-	
722J	2' - 0"	6' - 4"			9	122	I 607	M	2
723A	2' - 0"	6' - 4"		DH-1				-	
723B	2' - 0"	6' - 4"		DH-1				-	
723C	2' - 0"	6' - 4"		DH-1				-	
723J	2' - 0"	6' - 4"			9	122	I 607	M	2
724A	2' - 0"	6' - 4"		DH-1				-	
724B	2' - 0"	6' - 4"		DH-1				-	
724C	2' - 0"	6' - 4"		DH-1				-	
724J	2' - 0"	6' - 4"			9	122	I 607	M	2
725A	2' - 0"	6' - 4"		DH-1				-	
725B	2' - 0"	6' - 4"		DH-1				-	
725C	2' - 0"	6' - 4"		DH-1				-	
725D	2' - 0"	6' - 4"		DH-1				-	
725E	2' - 0"	6' - 4"		DH-1				-	
725F	2' - 0"	6' - 4"		DH-1				-	
725G	2' - 0"	6' - 4"		DH-1				-	
725H	2' - 0"	6' - 4"		DH-1				-	
725I	2' - 0"	6' - 4"		DH-2				-	
725J	2' - 0"	6' - 4"			9	122	I 607	M	2
726A	2' - 0"	6' - 4"		DH-1				-	
726B	2' - 0"	6' - 4"		DH-1				-	
726C	2' - 0"	6' - 4"		DH-1				-	
726D	2' - 0"	6' - 4"		DH-1				-	
726I	2' - 0"	6' - 4"		DH-2				-	
726J	2' - 0"	6' - 4"			9	122	I 607	M	2

DE DOOR SCHEDULE - 7TH FLOOR

Opening Number	Door information		Label	Hdwr Group	Lock Mounting	Existing Lock	Key Code	Key Type	Notes
	Width	Height							
727A	2' - 0"	6' - 4"		DH-1				-	
727B	2' - 0"	6' - 4"		DH-1				-	
727C	2' - 0"	6' - 4"		DH-1				-	
727D	2' - 0"	6' - 4"		DH-1				-	
727I	2' - 0"	6' - 4"		DH-2				-	
727J	2' - 0"	6' - 4"			9	122	I 607	M	2
728A	2' - 0"	6' - 4"		DH-1				-	
728B	2' - 0"	6' - 4"		DH-1				-	
728C	2' - 0"	6' - 4"		DH-1				-	
728D	2' - 0"	6' - 4"		DH-1				-	
728E	2' - 0"	6' - 4"		DH-1				-	
728F	2' - 0"	6' - 4"		DH-1				-	
728G	2' - 0"	6' - 4"		DH-1				-	
728H	2' - 0"	6' - 4"		DH-1				-	
728I	2' - 0"	6' - 4"		DH-2				-	
728J	2' - 6"	6' - 3"			9	122	I 607	M	2
7002	3' - 6"	7' - 0"			7	56	E612	P	1
7010	2' - 6"	7' - 0"			7	126	S49BC4	M	2
7012A	3' - 0"	7' - 0"			21	110-01	S49BC4	M	2
7012B	3' - 0"	7' - 0"			21	110-01	S49BC4	M	2
7013A	3' - 0"	7' - 0"			7	126	S49BC4	M	2
7013B	3' - 0"	7' - 0"			7	126	S49BC4	M	2
7014	3' - 0"	7' - 0"			7	126	S49BC4	M	2
7015A	2' - 8"	7' - 0"			7	126	S49BC4	M	2
7015B	2' - 8"	7' - 0"			7	126	S49BC4	M	2
7016	2' - 8"	7' - 0"			7	126	S49BC4	M	2
7019	3' - 6"	7' - 0"			7	56	E612	P	1
7020	3' - 0"	7' - 0"		DH-15	20		E612	C	20
7021	2' - 0"	7' - 0"		DH-14	20	-	S10	C	13, 21
7022	2' - 6"	7' - 0"			20	-	I 607	C	6, 18
7023	2' - 0"	7' - 0"			6	82	S49BC4	P	1
7025	2' - 0"	7' - 0"			6	82	S49BC4	P	1
7026	2' - 0"	7' - 0"		DH-14	20	-	S10	C	13, 21
7028	3' - 4"	7' - 0"			18	32	I 607	P	1
7029	2' - 0"	7' - 0"		DH-14	20	110-01	S10	C	21
7030	3' - 0"	7' - 0"			20	-	S10	C	25
7031	2' - 6"	7' - 0"			3	82	S49BC4	P	1
7032	2' - 6"	7' - 0"		DH-14	20	-	S49BC4	M	13
7033	2' - 4"	7' - 0"			20	-	I 607	C	6, 18
7034	2' - 6"	7' - 0"							
7035	2' - 6"	7' - 0"							
7036	2' - 6"	7' - 0"		DH-14	21	-	S10	C	13
7037	2' - 6"	7' - 0"			3	82	S49BC4	P	1
7038	2' - 6"	7' - 0"		DH-14	21	-	I 607	M	13
7039	2' - 6"	7' - 0"		DH-14	21	-	S49BC4	M	13
7040	2' - 4"	7' - 0"			20	-	S10	C	6, 18
7041	2' - 4"	7' - 0"			3	82	S49BC4	P	1
7043	2' - 6"	7' - 0"			3	82	S49BC4	P	1
7044	2' - 6"	7' - 0"			20	-	MS	C	6, 18, 26
7046	3' - 0"	7' - 0"			21	-	MS	C	6, 18, 26
7047	3' - 0"	7' - 0"			19	110-02	E612	M	4
7049	3' - 0"	7' - 0"			21	-	I 607	C	6, 18
7053A	3' - 0"	7' - 0"			1	66	I 607	P	1
7055	2' - 6"	7' - 0"			21	110-01	S49BC4	M	2
7056	2' - 6"	7' - 0"			21	110-01	I 607	M	2
7057	2' - 6"	7' - 0"			21	110-01	I 607	M	2
7058	2' - 6"	7' - 0"			21	110-01	I 607	M	2
7063	3' - 0"	7' - 0"			1	66	S49BC4	M	1
7064A	3' - 0"	7' - 0"		DH-9	7		E612	M	11
7064B	3' - 0"	7' - 0"		DH-9	7		E633	M	11
7074A	3' - 0"	7' - 0"			1	66	E612	P	1
7074B	3' - 0"	7' - 0"			1	66	E612	P	1
7075	2' - 6"	7' - 0"			19	110-02	S49BC4	M	2
7079	3' - 0"	7' - 0"			15	36	S49BC4	P	1
7080	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7081	2' - 6"	7' - 0"			4	62	S49BC4	P	1
7083	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7084	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7085	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7086	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7087	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7088	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7089	2' - 6"	7' - 0"			2		S49BC4	P	1
7096A	3' - 4"	6' - 8"	90		1	66	E612	P	1
7096B	2' - 4"	6' - 4"			7	56	S49BC4	M	2
7098	2' - 6"	7' - 0"			21	110-01	S49BC4	M	2
7099	2' - 6"	7' - 0"			2	86	S49BC4	P	1
7100	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7107	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7108A	2' - 6"	7' - 0"			2	66	S49BC4	P	1
7109	2' - 8"	7' - 0"			21	110-01	S49BC4	M	2
7111	3' - 0"	7' - 0"			21	110-01	S49BC4	M	2
7112A	2' - 4"	6' - 4"			7	56	S49BC4	P	1
7112B	3' - 4"	6' - 8"	90		1	66	E612	P	1
7114	2' - 6"	7' - 0"			4	62	I 607	P	1
7115	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7116	2' - 6"	7' - 0"			4	62	S49BC4	P	1
7117	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7118	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7119	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7120	2' - 0"	7' - 0"			4	12	S49BC4	P	1
7121	2' - 0"	7' - 0"			4	12	S49BC4	P	1
CC700	3' - 0"	7' - 0"							No work.
DD700	2' - 8"	7' - 0"			20	110-02	E612	M	2
S27	3' - 4"	6' - 8"		-					27
S37	3' - 4"	6' - 8"		-					27
SEVENTH FLOOR: 190 Doors Total									

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1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

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M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: JDH
DRAWN BY: MKH
CHECKED BY: JDH
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SHEET CONTENTS
DOOR SCHEDULE

SHEET NO.:
A602

SERVICE & DISTRIBUTION SYMBOLS

EXISTING PANELBOARD

FIRE ALARM SYMBOLS

FACP — FIRE ALARM CONTROL PANEL

FAAP — FIRE ALARM ANNUNCIATOR PANEL

INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR

MOTOR & EQUIPMENT CONNECTION SYMBOLS

3 PHASE MOTOR CONNECTION

1 PHASE MOTOR CONNECTION

EQUIPMENT CONNECTION

COMBINATION MAGNETIC MOTOR CONTROLLER

M — MANUAL MOTOR CONTROLLER (3 PHASE)

SS — SOLID STATE MOTOR CONTROLLER

SS — REDUCED VOLTAGE SOLID STATE CONTROLLER

VFD — VARIABLE FREQUENCY MOTOR CONTROLLER

MAGNETIC MOTOR CONTROLLER

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

DOUBLE THROW SWITCH

S_{FS} — FUSED SINGLE POLE SWITCH

S_{MS} — MOTOR RATED SWITCH WITH OVERLOADS

S_{WS} — MOTOR RATED SWITCH WITHOUT OVERLOADS

RVS — REDUCED VOLTAGE MAGNETIC CONTROLLER

RVS — COMBINATION REDUCED VOLTAGE MAGNETIC CONTROLLER

ATS — AUTOMATIC TRANSFER SWITCH

MTS — MANUAL TRANSFER SWITCH

ENCLOSED CIRCUIT BREAKER

GENERAL SYMBOLS

#/E-### — DETAIL NUMBER / SHEET NUMBER

9.### — KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

— KITCHEN EQUIPMENT TAG. # REFERS TO CORRESPONDING NUMBER IN KITCHEN EQUIPMENT SCHEDULE.

LINE TYPE KEY

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK DASHED LINE)

EXISTING TO REMAIN WORK (THIN SOLID LINE)

NEW WORK UNDER FLOOR BY THIS CONTRACTOR

ONE-LINE EQUIPMENT ENCLOSURE

PANEL DIVISION LINES

CON — SITE UNDERGROUND CONDUIT

//CON// — SITE REMOVED UNDERGROUND CONDUIT

E — SITE UNDERGROUND ELECTRIC

OHE — SITE OVERHEAD ELECTRIC

//OHE// — SITE REMOVED OVERHEAD ELECTRIC

//E// — SITE REMOVED UNDERGROUND ELECTRIC

ELECTRICAL ABBREVIATIONS

3R	NEMA 3R RATING
4X	NEMA 4X RATING
A	AMPERES
A/E	ARCHITECT / ENGINEER
AAC	ABOVE ACCESSIBLE CEILING
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APE	AIRCRAFT PROCESS EQUIPMENT
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CF	CIRCULATION FAN
CH	CHILLER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CP	CIRCULATION PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CRP	CONDENSATION RETURN
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
DC	DROP CORD
DDC	DIGITAL CONTROL PANEL
DH	DUCT HEATER
DISC	DISCONNECT
DO	DOOR OPERATOR
DWG	DRAWING
E/O	ELECTRICAL-TO-OPTICAL CONVERTER
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ES	EQUIPMENT SUPPLIER
ETR	EXISTING TO REMAIN
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
F	FUSED
FA	FIRE ALARM
FAF	FORCED AIR FURNACE
FCU	FAN COIL UNIT
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GWH	GAS WATER HEATER
HD	HAND DRYER
HP	HORSEPOWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWB	HOT WATER BOILER
HWP	HOT WATER PUMP
IEWH	INSTANTANEOUS ELECTRIC WATER HEATER
IH	INFRARED HEATER
IMC	INTERMEDIATE METALLIC CONDUIT
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
LBS	POUNDS
LFS	LIGHTING FIXTURE SCHEDULE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MIN.	MINIMUM
MNS	MASS NOTIFICATION SYSTEM
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NL/EL	NIGHT LIGHT AND EMERGENCY LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	RADIANT CEILING PANEL
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RF	RETURN FAN
RGS	RIGID GALVANIZED STEEL CONDUIT MAY ALSO BE REFERENCED AS RMC OR GRC
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
S/N	SOLID NEUTRAL
SE	SERVICE ENTRANCE
SEC-P	SECURITY PANEL
SF	SUPPLY FAN
SP	SUMP PUMP
SS	STAINLESS STEEL
SW	SWITCH
SWBK	SWITCH BANK
TBR	TO BE REMOVED
TCP	TEMPERATURE CONTROL PANEL
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TYP	TYPICAL
UC	UNIT COOLER
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATER
V	VOLTS
VER	VEHICLE EXHAUST REEL
VFD	VARIABLE FREQUENCY DRIVE
VS	VERSUS
W	WATTS
WCC	WATER COOLED CONDENSER
WFE	WELDING FUME EXTRACTOR
WH	WATER HEATER
WL	WET LOCATION LISTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

DEMOLITION GENERAL NOTES:

1. THE INFORMATION SHOWN IS BASED ON EXISTING DRAWINGS AND SITE OBSERVATIONS TO ASSIST CONTRACTOR IN BIDDING. THE ELECTRICAL DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS. REFER TO SPECIFICATION SECTION 26 05 02 FOR ADDITIONAL REQUIREMENTS.
2. ELECTRICAL ITEMS (i.e., DISCONNECTS, MOTOR CONTROLLERS , ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER, IN A STORAGE AREA TO BE DESIGNATED BY THE OWNER. EQUIPMENT BEING REMOVED SHALL BE HANDLED SO AS NOT TO FURTHER REDUCE ITS VALUE TO THE OWNER. THE CONTRACTOR SHALL DISPOSE OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN FOR MAINTENANCE PURPOSES.
3. ALL BOXES THAT REMAIN IN PLACE IN EXISTING MASONRY WALLS SHALL BE PROVIDED WITH A BLANK COVERPLATE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
4. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK, INCLUDING PHASING WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING ELECTRICAL AND INSTALLING NEW ITEMS.
5. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATED CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
6. MAINTAIN CIRCUIT CONTINUITY OF EQUIPMENT LOCATED OUTSIDE OF CONSTRUCTION AREA. DEVICE AND EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
7. CONTRACTOR SHALL REMOVE AND INSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK THAT IS OUTSIDE THE CONTRACT LIMITS OF CONSTRUCTION. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
8. PROVIDE REVISED TYPED CIRCUIT DIRECTORY IN PANELBOARDS THAT HAVE CIRCUITS REMOVED OR ADDED CIRCUITS.
9. REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT RACEWAY FLUSH WITH WALLS AND FLOORS, PATCH SURFACES TO MATCH EXISTING. REMOVE ALL ASSOCIATED CLAMPS, HANGERS, SUPPORTS, ETC. ASSOCIATED WITH RACEWAY REMOVAL.

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COUNTY of DANE WISCONSIN 1839

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
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PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

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M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: SDL
DRAWN BY: KAF
CHECKED BY: SDL

DO NOT SCALE DRAWINGS

SHEET CONTENTS
SYMBOLS, ABBREVIATIONS AND NOTES

SHEET NO.:
E001

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KEYED NOTES

9.103 PROVIDE 208V, 20A, 3PH BRANCH CIRCUIT FROM PANEL B TO SF-3. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

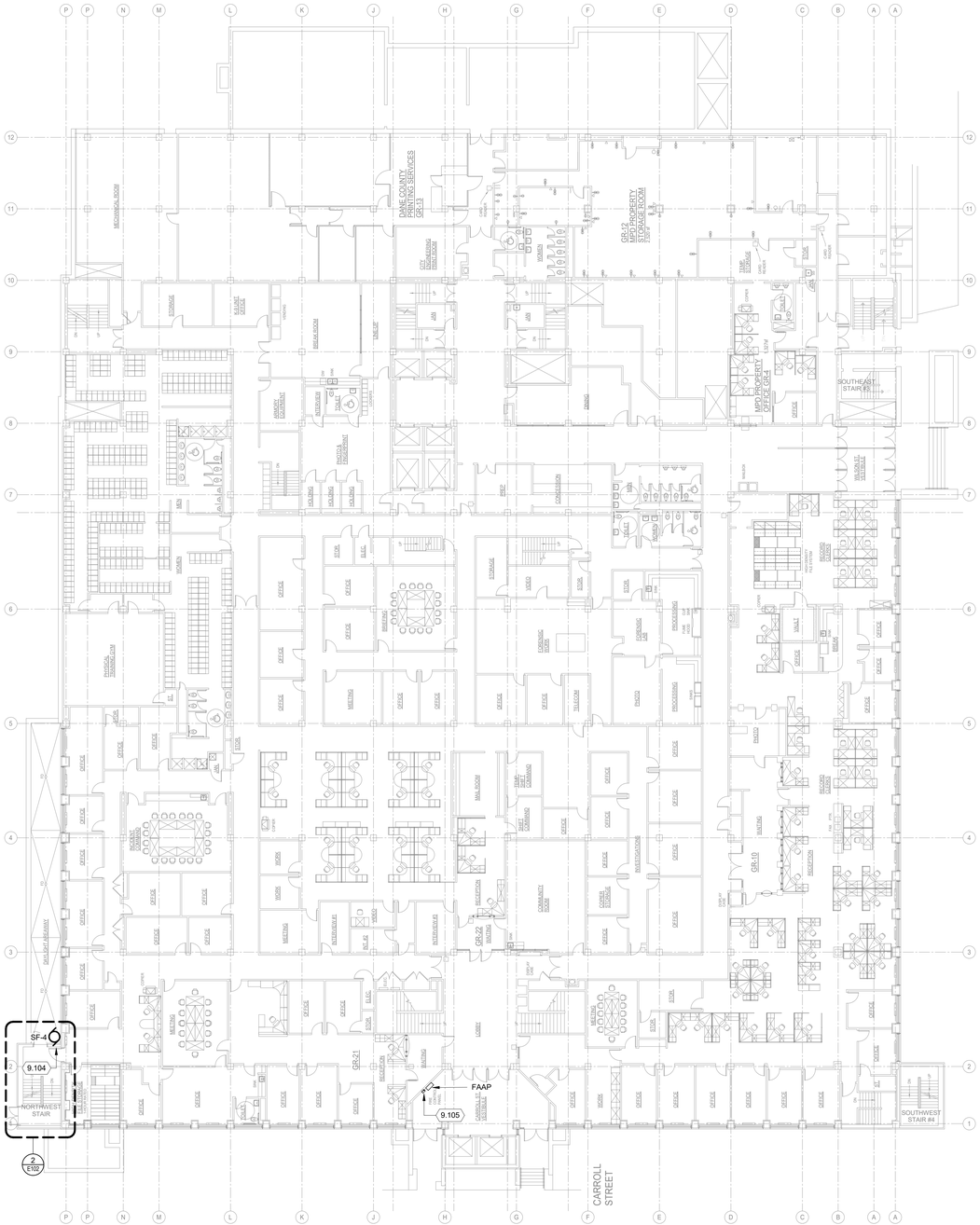
9.104 PROVIDE 208V, 20A, 3PH BRANCH CIRCUIT FROM PANEL A TO SF-4. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

9.105 PROVIDE FAN CONTROL STATION WITHIN SECURED KNOX BOX FOR REMOTE ACTIVATION OF STAIRWELL PRESSURIZATION FANS ADJACENT TO EXISTING FAAP.

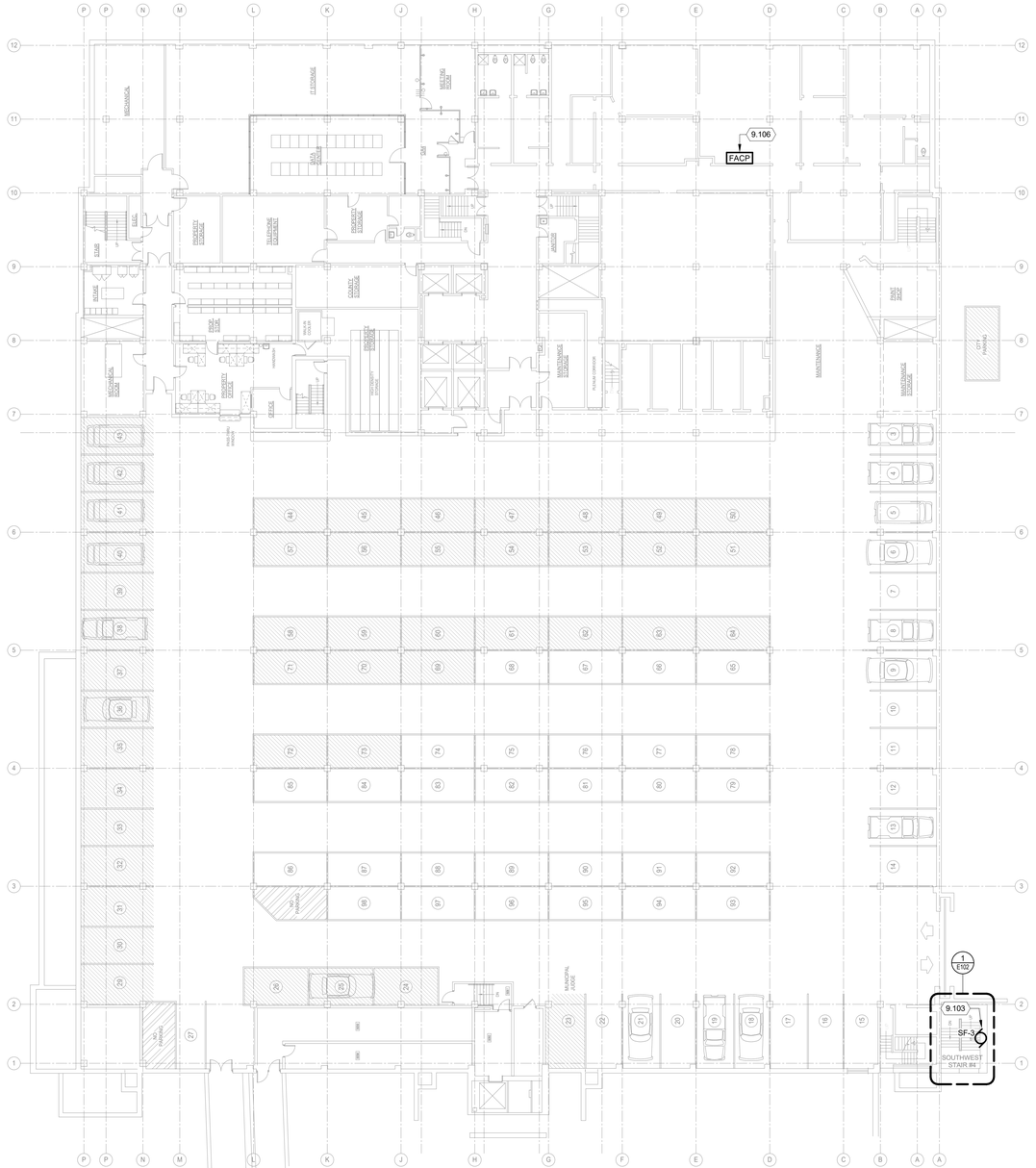
9.106 EXISTING FACP.

GENERAL PLAN NOTES:

1. CONDUIT ROUTING FROM FANS TO ELECTRICAL AND FIRE ALARM PANELS SHALL MINIMIZE WORK IN PRIVATE OFFICES AND AREAS OCCUPIED 24/7 SUCH AS THE 911 CENTER. IN ADDITION, PORTIONS OF THE BUILDING HAVE ASBESTOS-CONTAINING METAL CEILING TILE WHICH, IF DISTURBED MUST BE HANDLED IN ACCORDANCE WITH THE GENERAL CONDITIONS SPECIFICATIONS. THESE AREAS ARE TO BE AVOIDED IF AT ALL POSSIBLE. PROVIDE OWNER WITH INTENDED ROUTING PLAN A MINIMUM OF SEVEN DAYS PRIOR TO COMMENCEMENT OF WORK AND ADJUST ROUTING OR SCHEDULE AS DIRECTED BY OWNER TO MINIMIZE DISRUPTION. AFTER-HOURS WORK MAY BE NECESSARY.



ELECTRICAL PLAN
GROUND FLOOR - OVERALL
2 1/16" = 1'-0"



ELECTRICAL PLAN
GARAGE LEVEL - OVERALL
1 1/16" = 1'-0"

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DANE COUNTY SHERIFF'S OFFICE
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MADISON, WISCONSIN 53703

ISSUED
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BID DOCUMENTS

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DESIGNED BY: SDL
DRAWN BY: KAF
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SHEET CONTENTS
ELECTRICAL
OVERALL PLANS

SHEET NO.:
E100

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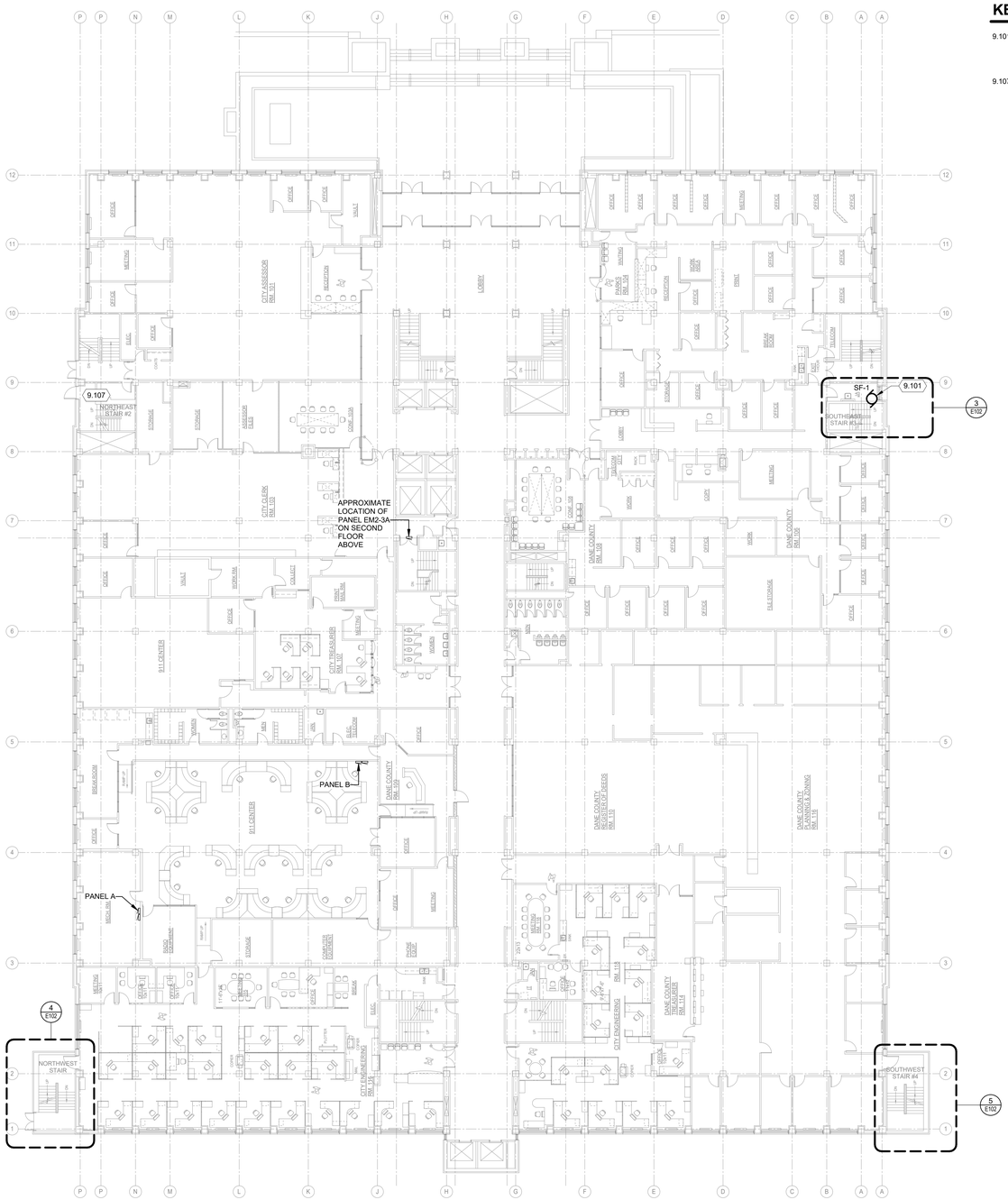

KEYED NOTES

9.101 PROVIDE 120V, 20A, 3PH BRANCH CIRCUIT FROM PANEL EM2-3A TO SF-1. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

9.107 REFER TO 6/E-102 FOR APPROXIMATE LOCATION OF SF-2 ON SECOND FLOOR.

ELECTRICAL PLAN
FIRST FLOOR - OVERALL

1/16" = 1'-0"

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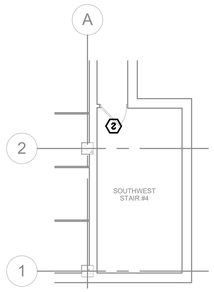
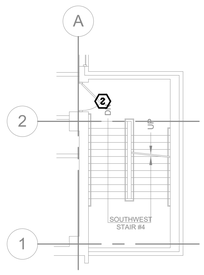
SHEET CONTENTS
ELECTRICAL
OVERALL PLANS

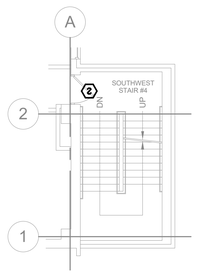
SHEET NO.:
E101



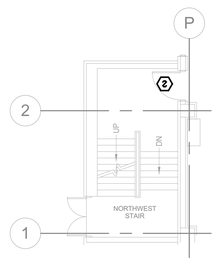
ELECTRICAL PLAN SIXTH FLOOR - SOUTHWEST STAIR #4
16 1/8" = 1'-0"



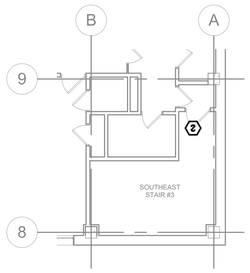
ELECTRICAL PLAN FOURTH FLOOR - SOUTHWEST STAIR #4
12 1/8" = 1'-0"



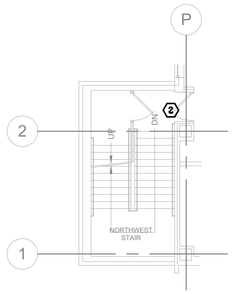
ELECTRICAL PLAN SECOND FLOOR - SOUTHWEST STAIR #4
8 1/8" = 1'-0"



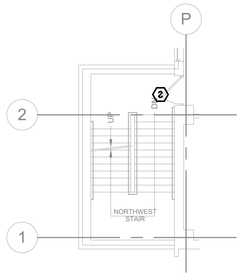
ELECTRICAL PLAN FIRST FLOOR - NORTHWEST STAIR
4 1/8" = 1'-0"



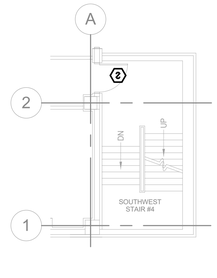
ELECTRICAL PLAN SEVENTH FLOOR - SOUTHEAST STAIR #3
17 1/8" = 1'-0"



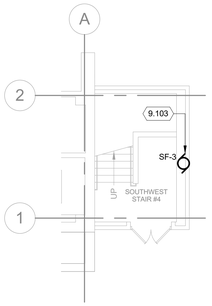
ELECTRICAL PLAN FIFTH FLOOR - NORTHWEST STAIR
13 1/8" = 1'-0"



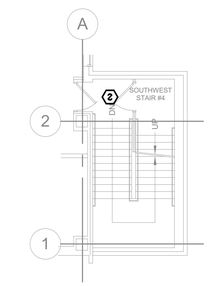
ELECTRICAL PLAN THIRD FLOOR - NORTHWEST STAIR
9 1/8" = 1'-0"



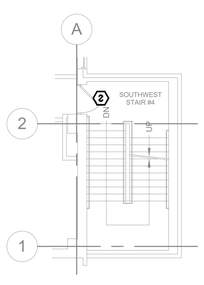
ELECTRICAL PLAN FIRST FLOOR - SOUTHWEST STAIR #4
5 1/8" = 1'-0"



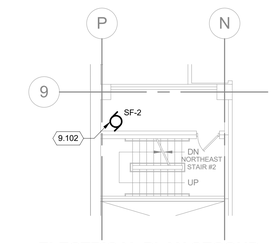
ELECTRICAL PLAN GARAGE LEVEL - SOUTHWEST STAIR #4
1 1/8" = 1'-0"



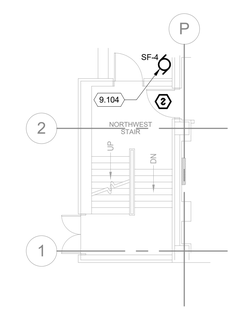
ELECTRICAL PLAN FIFTH FLOOR - SOUTHWEST STAIR #4
14 1/8" = 1'-0"



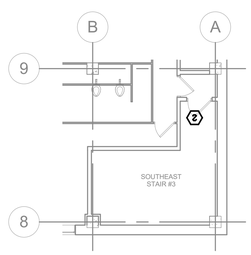
ELECTRICAL PLAN THIRD FLOOR - SOUTHWEST STAIR #4
10 1/8" = 1'-0"



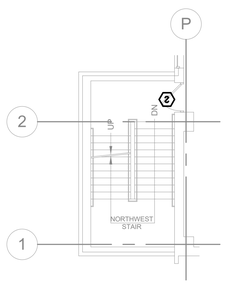
ELECTRICAL PLAN SECOND FLOOR - NORTHEAST STAIR #2
6 1/8" = 1'-0"



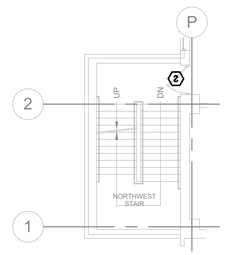
ELECTRICAL PLAN GROUND FLOOR - NORTHWEST STAIR
2 1/8" = 1'-0"



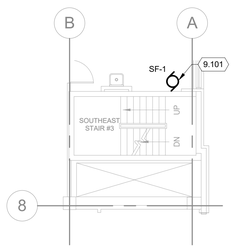
ELECTRICAL PLAN SIXTH FLOOR - SOUTHEAST STAIR #3
15 1/8" = 1'-0"



ELECTRICAL PLAN FOURTH FLOOR - NORTHWEST STAIR
11 1/8" = 1'-0"



ELECTRICAL PLAN SECOND FLOOR - NORTHWEST STAIR
7 1/8" = 1'-0"



ELECTRICAL PLAN FIRST FLOOR -SOUTHEAST STAIR #3
3 1/8" = 1'-0"

GENERAL PLAN NOTES:

1. CONDUIT ROUTING FROM FANS TO ELECTRICAL AND FIRE ALARM PANELS SHALL MINIMIZE WORK IN PRIVATE OFFICES AND AREAS OCCUPIED 24/7 SUCH AS THE 911 CENTER. IN ADDITION, PORTIONS OF THE BUILDING HAVE ASBESTOS-CONTAINING METAL CEILING TILE WHICH, IF DISTURBED MUST BE HANDLED IN ACCORDANCE WITH THE GENERAL CONDITIONS SPECIFICATIONS. THESE AREAS ARE TO BE AVOIDED IF AT ALL POSSIBLE. PROVIDE OWNER WITH INTENDED ROUTING PLAN A MINIMUM OF SEVEN DAYS PRIOR TO COMMENCEMENT OF WORK AND ADJUST ROUTING OR SCHEDULE AS DIRECTED BY OWNER TO MINIMIZE DISRUPTION. AFTER-HOURS WORK MAY BE NECESSARY.

KEYED NOTES

9.101 PROVIDE 120V, 20A, 3PH BRANCH CIRCUIT FROM PANEL EM2-3A TO SF-1. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

9.102 PROVIDE 120V, 20A, 3PH BRANCH CIRCUIT FROM EM2-3A TO SF-2. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

9.103 PROVIDE 208V, 20A, 3PH BRANCH CIRCUIT FROM PANEL B TO SF-3. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

9.104 PROVIDE 208V, 20A, 3PH BRANCH CIRCUIT FROM PANEL A TO SF-4. FAN INCLUDES CONTROLLER WITH LV AUX INPUTS TO FACILITATE CONTROL OF FANS BY FA AND REMOTE FAN CONTROL STATION. PROVIDE FA CONTROL MODULE FOR FAN CONTROL.

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1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

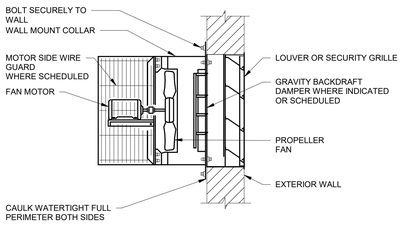
ISSUED
04/04/17 BID DOCUMENTS

BID DOCUMENTS

M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: SDL
DRAWN BY: KAF
CHECKED BY: SDL
DO NOT SCALE DRAWINGS

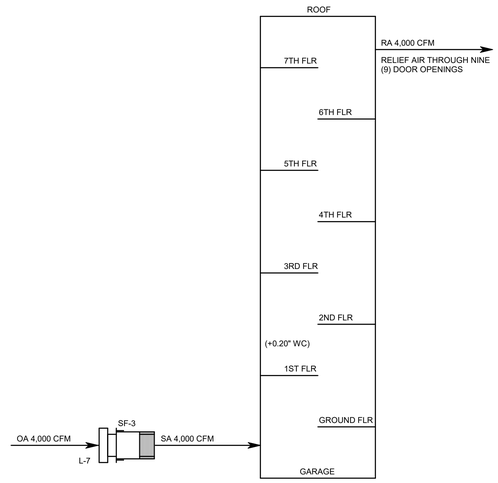
SHEET CONTENTS
ELECTRICAL PLANS

SHEET NO.:
E102



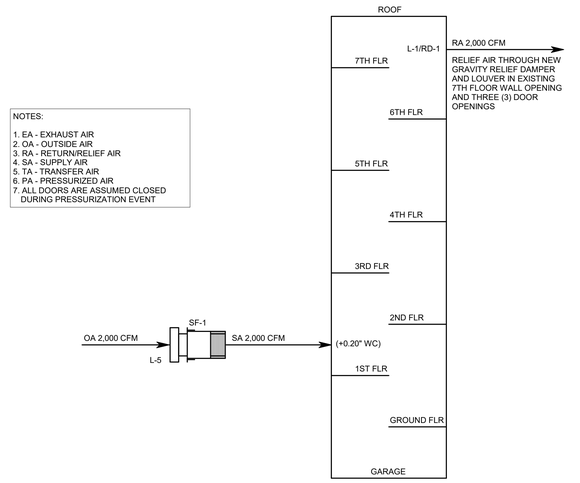
5 SIDEWALL PROPELLER FAN W/DAMPER AND LOUVER/GRILLE

12" = 1'-0"



3 SW STAIRWELL #4 FLOW DIAGRAM

12" = 1'-0"

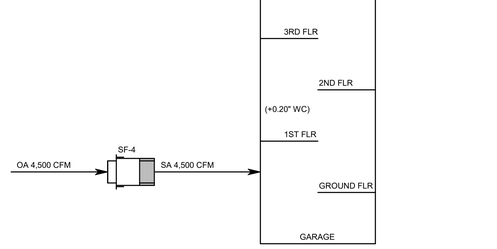


NOTES:

1. EA - EXHAUST AIR
2. OA - OUTSIDE AIR
3. RA - RETURN/RELIEF AIR
4. SA - SUPPLY AIR
5. TA - TRANSFER AIR
6. PA - PRESSURIZED AIR
7. ALL DOORS AIRE ASSUMED CLOSED DURING PRESSURIZATION EVENT

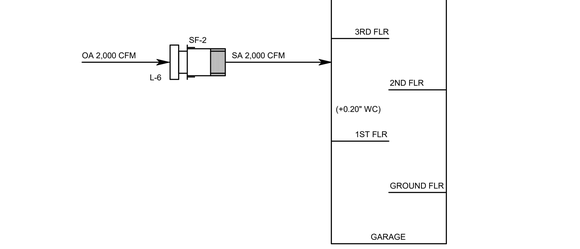
1 SE STAIRWELL #3 FLOW DIAGRAM

12" = 1'-0"



4 NW STAIRWELL #1 FLOW DIAGRAM

12" = 1'-0"



2 NE STAIRWELL #2 FLOW DIAGRAM

12" = 1'-0"

AIR OUTLET AND INLET SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	APPLICATION	OUTLET/ INLET	TYPE	MOUNTING SYSTEM	DAMPER	SIZE (IN)	NECK (IN)	FINISH	MATERIAL	(1) MOUNTING HEIGHT (IN)	ACCESSORIES	LOCATION	REMARKS
SG-1	KEES, SEG-5M	SECURITY	3	3	3	N	(2)	(2)	W	STEEL	SEE PLANS	-	SEE PLANS	(3)
SG-2	KEES, SEG-5M	SECURITY	3	3	3	N	(4)	(4)	W	STEEL	SEE PLANS	-	SEE PLANS	(3)

OUTLET/INLET		TYPE		MOUNTING SYSTEM		DAMPER		FINISH	
1	DIFFUSER	1	SINGLE DEFLECTION	9	LOUVERED	1	T-BAR CEILING	N	NONE	M	MILL
2	REGISTER	2	DOUBLE DEFLECTION	10	HOODED	2	PLASTER/CONCRETE CEILING	BF	BUTTERFLY	W	MFR. STANDARD WHITE
3	GRILLE	3	FIXED BLADE	11	DOOR TRANSFER	3	PLASTER/MASONRY WALL	G	GRAVITY	S	MFR. SPECIAL COLOR
4	LOUVER	4	PERFORATED	12	BRICK	4	EXPOSED DUCTWORK	MP	MOTORIZED PNEUMATIC	O	OTHER (SEE...
5	PENTHOUSE	5	LINEAR	13	PUNKAH	5	METAL PANEL WALL	ME	MOTORIZED ELECTRIC		
6	VENT	6	SLOT	14	LAMINAR	6	ROOF	OB	OPPOSED BLADE		
		7	DRUM			7	EXTERIOR STUD WALL	PB	PARALLEL BLADE		
		8	EGGCRATE					LL	LOW LEAKAGE, INSUL.		

REMARKS:

(1) MOUNTING HEIGHT SHALL BE FROM FINISHED FLOOR TO TOP OF OPENING.
(2) SIZE GRILLE TO MATCH NOMINAL ASSOCIATED FAN DISCHARGE OPENING (APPROXIMATELY 24" SQUARE).
(3) ONE INCH FLANGE, ZERO DEGREE DEFLECTION .10 GA FACE AND SLEEVE WITH 1-1/2" x 1/8" STEEL BARS ON 1/2" CENTERS. ANCHOR SLEEVE TO REAR FACE OF WALL OUTSIDE OF STAIRWELL
(4) SIZE GRILLE TO MATCH NOMINAL ASSOCIATED FAN DISCHARGE OPENING (APPROXIMATELY 40" SQUARE).

LOUVER (L) SCHEDULE (8)

MARK	MANUFACTURER, MODEL NUMBER	APPLICATION	LOUVER TYPE	MTG. SYSTEM	MAX. INLET VEL. (FT/MIN.)	CAPACITY AIR FLOW (CFM)	CAPACITY PD (IN WC)	DAMPER TYPE	SIZE (IN) HEIGHT	SIZE (IN) WIDTH	FINISH	MATERIAL	ACCESSORIES	(1) MTG. HEIGHT (IN)	LOCATION	REMARKS
L-1	GREENHECK, ESD-635	RELIEF	3	1	400	1500	-	(5)	(6)	(6)	C	ALUMINUM	1	ETR	SEE PLANS	-
L-2	GREENHECK, ESD-635	RELIEF	3	1	400	1500	-	(5)	(6)	(6)	C	ALUMINUM	1	ETR	SEE PLANS	-
L-3	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-4	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	GREENHECK, ESD-635	INTAKE	3	1	1000	1500	-	(4)	(2)	(2)	C	ALUMINUM	1	ETR	SEE PLANS	-
L-6	EXISTING LOUVER TO REMAIN	INTAKE	ETR	ETR	ETR	ETR	-	(7)	ETR	ETR	ETR	ETR	1	ETR	SEE PLANS	-
L-7	GREENHECK, ESD-635	INTAKE	3	1	1000	3500	-	(4)	(3)	(3)	C	ALUMINUM	1	(9)	SEE PLANS	-

APPLICATION		LOUVER TYPE		MOUNTING SYSTEM		DAMPER TYPE		FINISH		ACCESSORIES	
1	INTAKE	1	BRICK VENT	1	PLASTER/MASONRY WALL	N	NONE	M	MILL	1	BIRD SCREEN
2	EXHAUST	2	THIN LINE EXTRUDED	2	EXPOSED DUCTWORK	BF	BUTTERFLY	W	MANUFACTURER STANDARD WHITE	2	INSECT SCREEN
3	RELIEF	3	DRAINABLE BLADE	3	METAL PANEL WALL	G	GRAVITY	S	MANUFACTURER SPECIAL COLOR	3	FLANGED FRAME
		4	STATIONARY EXTRUDED	4	ROOF	MP	MOTORIZED PNEUM.	O	OTHER (SEE SPECIFICATIONS)	4	SILL EXTENSIONS
		5	ADJUSTABLE EXTRUDED	5	EXTERIOR STUD WALL	ME	MOTORIZED ELECTRIC	AA	ANODIZED ALUMINUM	5	FILTER RACK
		6	WIND-DRIVEN RAIN			OB	OPPOSED BLADE	FP	FACTORY PRIMED FOR FIELD PAINTING		
						PB	PARALLEL BLADE	C	CUSTOM COLOR SELECTED BY ARCH.		
						LL	LOW LEAKAGE, INSUL.				

REMARKS:

(1) APPROXIMATE, SEE DRAWINGS FOR MOUNTING HEIGHT AND LOCATION.
(2) SIZE LOUVER TO MATCH EXISTING WALL OPENING SIZE. SUBMITTALS SHALL SHOW EVIDENCE OF OPENING SIZE COORDINATION. FOR ESTIMATING, APPROXIMATE SIZE IS 36x36
(3) SIZE LOUVER TO MATCH ASSOCIATED FAN WALL OPENING SIZE. SUBMITTALS SHALL SHOW EVIDENCE OF OPENING SIZE COORDINATION. FOR ESTIMATING, APPROXIMATE SIZE IS 36x36
(4) SPRING LOADED GRAVITY BACKDRAFT DAMPER (PROVIDED BY ASSOCIATED INTAKE SUPPLY FAN SUPPLIER WHEN PART OF FAN ASSEMBLY).
(5) GALVANIZED INDUSTRIAL PRESSURE RELIEF DAMPER EQUAL TO GREENHECK MODEL HPR-120, SIZED TO MATCH ASSOCIATED RELIEF LOUVER. SET TO RELIEVE AT 0.20" W.C. PRESSURE
(6) SIZE LOUVER TO MATCH EXISTING OPENING. APPROXIMATE SIZE IS 36"x36". FIELD VERIFY PRIOR TO SUBMITTAL. SUBMITTAL SHALL SHOW EVIDENCE OF FIELD COORDINATION
(7) PROVIDE NEW SPRING LOADED GRAVITY BACKDRAFT DAMPER TO MATCH EXISTING LOUVER SIZE (ESTIMATED TO BE 36"X36" (VERIFY))

EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIR FLOW RATE (CFM)	(5) ESP (IN WC)	MOTOR (HP)	MOTOR TYPE	FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	(2) MTG. HEIGHT (FT)	MAXIMUM SOUND (3) (DB)	MAXIMUM SOUND (4) SONES	MAXIMUM SOUND INSTALL. TYPE	(1) INTERLOCK WITH	OPENING (IN) LENGTH	OPENING (IN) WIDTH	ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS
SF-1	GREENHECK, SE1-16-436-VG	9	2,000	0.40	3/4	ODP	1350	DIRECT	115/1	(6)	-	-	-	(7)	23 1/4	23 1/4	4,6,8,9,30	150	SEE PLANS	(8),(9)
SF-2	GREENHECK, SE1-16-436-VG	9	2,000	0.40	3/4	ODP	1350	DIRECT	115/1	(6)	-	-	-	(7)	23 1/4	23 1/4	4,6,8,9,30	150	SEE PLANS	(8),(9)
SF-3	GREENHECK, SCS3-24-315-A10-VGD	9	4,000	0.30	1	ODP	1580	DIRECT	208/3	(6)	-	-	-	(7)	33 3/4	33 3/4	1,4,5,8,9,30	250	SEE PLANS	(8),(10)
SF-4	GREENHECK, SCE3-30-612-B10-VGD	9	4,500	0.30	1	ODP	930	DIRECT	208/3	(6)	-	-	-	(7)	39 3/4	39 3/4	1,3,4,5,8,9,30	400	SEE PLANS	(8),(10)

FAN TYPE				MOTOR TYPE		INSTALLATION TYPE	
CENTRIFUGAL		AXIAL		ODP	OPEN DRIP PROOF	A	FREE INLET, FREE OUTLET
1	SIDEWALL	8	ROOFTOP DOWNBLAST	TEFC	TOTALLY ENCLOSED FAN COOLED	B	FREE INLET, DUCTED OUTLET
2	INLINE	9	SIDEWALL PROPELLER	XPL	EXPLOSION PROOF		
3	UTILITY	10	TUBE AXIAL	INV	INVERTER DUTY		
4	CABINET	11	VANE AXIAL	TEAO	TOTALLY ENCLOSED AIR OVER		
5	ROOFTOP UPBLAST	12	ROOFTOP UPBLAST				
6	ROOFTOP HOODED	13	ROOFTOP FRP UPBLAST				
7	ROOFTOP FILTERED SUPPLY	14	ROOFTOP HOODED				

ACCESSORIES					
1	GRAVITY BACKDRAFT DAMPER	11	OUTLET WIRE GUARD	21	HOODED WALL CAP
2	MOTORIZED BACKDRAFT DAMPER	12	INLET FILTER GUARD	22	HOODED ROOF CAP
3	WEATHERHOOD	13	MOTOR COVER	23	HINGED ROOF CURB
4	WALL COLLAR	14	HOUSING INSULATION	24	INLET GRILLE
5	MOTOR WIRE GUARD	15	BELT (OSHA) WIRE GUARD	25	BASE MOUNTED VIBRATION ISOLATORS
6	MOTOR (OSHA) WIRE GUARD	16	INLET BELL	26	DUCT ADAPTOR
7	SHUTTER GUARD	17	INLET/OUTLET FLANGES	27	HANGING SPRING ISOLATORS
8	FAN SPEED CONTROLLER	18	INLET VANE DAMPER	28	HANGING NEOPRENE ISOLATORS
9	NON-FUSED DISCONNECT SWITCH	19	EXTENDED LUBE LINES	29	FACTORY INSULATED ANGLED FILTER BOX
10	INLET WIRE GUARD	20	MFR. ROOF CURB	30	ECM MOTOR WITH DIFF PRESSURE...

REMARKS:

(1) SEE SPECIFICATION SECTION 230993 - HVAC SEQUENCE OF OPERATION.
(2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL OF INDICATED ROOM, TO TOP OF FAN OR WALL OPENING.
(3) SOUND POWER LEVEL RATING PER AMCA 301.
(4) LOUDNESS VALUES AT 5 FT IN A HEMISPHERICAL FREE FIELD PER AMCA 301.
(5) DOES NOT INCLUDE ACCESSORY ITEM PRESSURE DROPS
(6) SEE DRAWINGS FOR INSTALLATION ELEVATIONS
(7) SEE SEE HVAC CONTROL SEQUENCES SPECIFICATION FOR INTERLOCK REQUIREMENTS
(8) PROVIDE ALLCOMPONENTS NECESSARY FOR DIFFERENTIAL PRESSURE SPEED CONTROL OF FAN, INCLUDING BUT NOT LIMITED TO PRESSURE TRANSDUCER'S, PROBES, TRANSFORMERS, TUBING, ETC...
(9) INSTALL DIFFERENTIAL FAN SPEED CONTROLLER ON OR NEAR FAN OUTSIDE STAIRWELL SERVED. INSTALL ONE PRESSURE SENSING PORT WITHIN STAIRWELL CLOSE TO SECOND FLOOR LEVEL, OUT OF REACH OF STAIRWELL... OCCUPANTS AND OTHER PORT EXPOSED TO THE OUTDOORS. CAULK AND SEAL WALL PENTRATIONS (FIRE RATED PENETRATION FOR STAIRWELL)
(10) SAME AS NOTE (9) ABOVE EXCEPT INSTALL STAIRWELL PRESSURE SENSING PORT CLOSE TO 1ST FLOOR LEVEL

HVAC SYMBOLS:

- AIRFLOW (SUPPLY)
- AIRFLOW (RETURN)
- DG — AIRFLOW (DOOR GRILLE)
- DCO — 3/4" DOOR CUTOFF
- SUPPLY OR OUTDOOR AIR
- RETURN
- EXHAUST
- SUPPLY DUCT TURNED AWAY
- SUPPLY DUCT TURNED TOWARD
- 12x12 — RECTANGLE DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)
- 12ø — ROUND DUCT (RIGID)
- 12/12ø — OVAL DUCT
- FLEXIBLE CONNECTION
- DUCT (FLEXIBLE ROUND)
- TURNING VANES
- TRANSITION (SQUARE-TO-ROUND)
- BD — BACKDRAFT DAMPER
- VOLUME DAMPER
- AD FD — FIRE DAMPER & ACCESS DOOR
- MOD — MOTOR OPERATED DAMPER
- OPPOSED BLADE DAMPER
- PARALLEL BLADE DAMPER
- RS — ROOM SENSOR
- SP — STATIC PRESSURE SENSOR
- TS — TEMPERATURE SENSOR
- T — THERMOSTAT
- S — SMOKE DETECTOR
- A / 100 — AIR OUTLET/INLET TYPE (CFM)

GENERAL NOTES:

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
3. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
4. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
6. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
7. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
8. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
9. DUCT CLEANING:
   A. ALL HVAC SYSTEMS ON 6TH AND 7TH FLOORS OF FACILITY SHALL BE CLEANED PER SPECIFICATION SECTION 230600 - HVAC AIR DUCT CLEANING. THIS INCLUDES AIR SYSTEMS IN THE ROOFTOP PENTHOUSES SERVING THE 6TH AND 7TH FLOORS
   B. SEE NON-MEAD & HUNT DRAWINGS CCB-0, CCB-1, M1-1, M1-2, M2-0, M2-1, M3-0, 9.15 THROUGH 9.19, SHEET 19 OF 45, M14, AND M15 FOR ADDITIONAL INFORMATION REGARDING EXISTING 6TH AND 7TH FLOOR HVAC SYSTEMS
   C. PROPER STAGING/SCHEDULING OF DUCT CLEANING ACTIVITIES IS CRITICAL TO MAINTAIN ONGOING OPERATIONS OF THE FACILITY. SEE ARCHITECTURAL DRAWING A003 FOR STAGING PLANS OF THE 6TH AND 7TH FLOORS. CONTRACTORS BID MUST ACCOMMODATE STAGING PLAN
10. COMMISSIONING: ALL HVAC SYSTEMS IN THIS PROJECT SHALL BE COMMISSIONED TO VERIFY COMPLIANCE WITH DESIGN INTENT. COMMISSIONING SHALL INCLUDE BUT NOT BE LIMITED TO SIMULATING A FIRE EVENT VIA THE MAIN FIRE ALARM CONTROL PANEL AND VERIFYING THE OPERATION OF ALL FOUR FANS DURING THE FIRE EVENT. WHEN THE FANS ARE ENERGIZED, MEASURE AND RECORD THE NET DEVELOPED POSITIVE PRESSURE IN EACH STAIRWELL RELATIVE TO OUTDOOR ATMOSPHERE (TARGET IS 0.10" TO 0.20" W.C. PRESSURE) WHILE CHECKING THE OPERATION OF THE ASSOCIATED RELIEF DAMPER AND FAN SPEED CONTROLLER. DO THIS FOR EACH FAN IN EACH STAIRWELL WITH THE JUST THE SEVENTH FLOOR DOOR OPEN AND THEN AGAIN WITH THE SIXTH AND SEVENTH FLOOR DOORS OPEN. CHECK FOR DOORS THAT MAY BE DIFFICULT TO OPEN DUE TO THE POSITIVE PRESSURE IN THE STAIRWELL. CONTRACTOR SHALL ALSO BUDGET ONE FULL DAY OF ADDITIONAL COMMISSIONING TIME TO ASSIST THE OWNER AND FIRE MARSHALL INSPECT AND VALIDATE PROPER SYSTEM OPERATION
11. ANY STAIRWELL PIPE PENETRATION (NOT FLOOR TO FLOOR WITHIN THE STAIRWELL) WITH AN ANNULAR GAP GREATER THAN 1/16" SHALL BE SEALED WITH FIRE RATED CAULKING. FOR BIDDING PURPOSES ASSUME THERE IS ONE PENETRATION IN EACH OF THE FOUR STAIRWELLS THAT NEEDS TO BE SEALED
12. FOR ANY FASTENERS EXPOSED TO OCCUPANTS OF THE STAIRWELLS, PROVIDE SECURITY FASTENERS AS SPECIFIED IN SECTION 050533 - SECURITY METAL FASTENINGS

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DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

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MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

BID DOCUMENTS

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DATE: April 4, 2017
DESIGNED BY: RFP
DRAWN BY: RJH
CHECKED BY: KML
DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL NOTES & SYMBOLS

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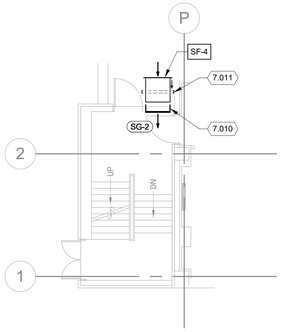
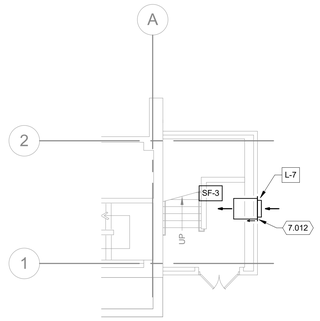
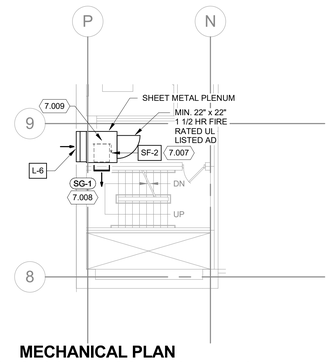


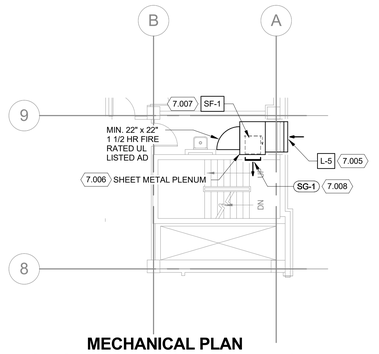
MECHANICAL PLAN
GROUND LEVEL - NORTHWEST
10 — 1/8" = 1'-0"



MECHANICAL PLAN
GARAGE LEVEL - SOUTHWEST
7 — 1/8" = 1'-0"



MECHANICAL PLAN
SECOND FLOOR - NORTHEAST
4 — 1/8" = 1'-0"



MECHANICAL PLAN
FIRST FLOOR - SOUTHEAST
1 — 1/8" = 1'-0"

KEYED NOTES

7.001 DOOR TO BE REMOVED

7.002 REMOVE EXISTING LOUVER. INFILL RESULTANT OPENING AROUND NEW DAMPER/LOUVER ASSEMBLY WITH 3" THICK POLYSTYRENE INSULATION WRAPPED IN SHEET ALUMINUM.

7.003 REMOVE EXISTING BLANK-OFF DAMPER AND ELECTRIC FINNED TUBE HEATER. EXISTING LOUVER TO REMAIN. BLANK-OFF RESULTANT OPENING AROUND NEW DAMPER WITH 3" THICK POLYSTYRENE INSULATION WRAPPED IN SHEET ALUMINUM. TOP OF NEW LOUVER/DAMPER ASSEMBLY SHALL BE TIGHT TO TOP OF EXISTING OPENING.

7.004 REMOVE EXISTING DAMPER ASSEMBLY AND ELECTRIC FINNED TUBE HEATER. EXISTING LOUVER TO REMAIN. BLANK-OFF BACK SIDE OF LOUVER WITH 2" OF RIGID SHEET POLYSTYRENE WRAPPED IN SHEET ALUMINUM.

7.005 REMOVE WINDOW AND REPLACE WITH LOUVER AS INDICATED.

7.006 PROVIDE 1 1/2 HOUR FIRE RATED BLANKET INSULATION OVER GALVANIZED DUCT PLENUM FROM CONNECTION TO OA INTAKE LOUVER TO STAIRWELL WALL.

7.007 OPEN ENDED SUPPLY FAN WITHIN DUCT PLENUM.

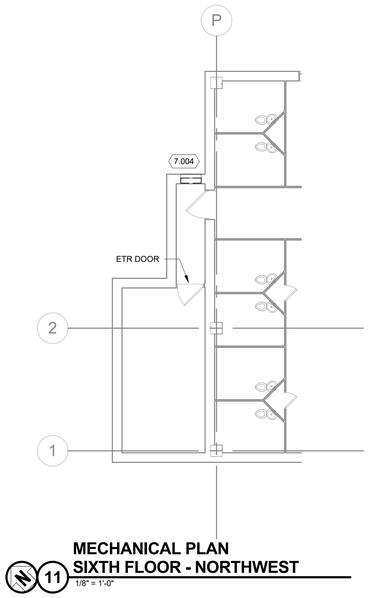
7.008 CUT NEW WALL OPENING FOR SUPPLY GRILLE.

7.009 RELOCATE/RE-ROUTE EXISTING 3" LOW PRESSURE STEAM LINE AROUND NEW DUCT PLENUM. RE-INSULATE WITH LIKE INSULATION.

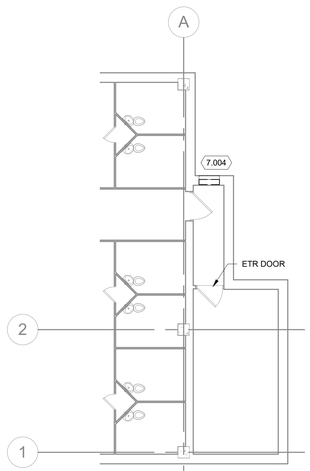
7.010 PROVIDE NEW WALL OPENING IN CONCRETE WALL WITH BOTTOM OF OPENING MINIMUM 4'-0" AFF.

7.011 PROVIDE SUPPORT STAND FOR EXTERIOR PORTION OF FAN. SUPPORT FROM AREA WELL FLOOR.

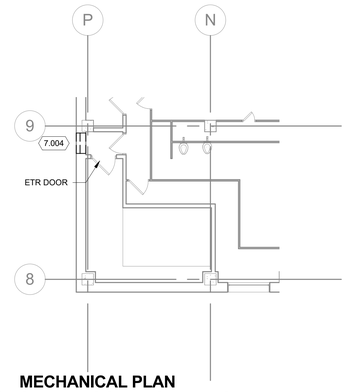
7.012 PROVIDE NEW WALL OPENING IN EXISTING CONCRETE WALL.



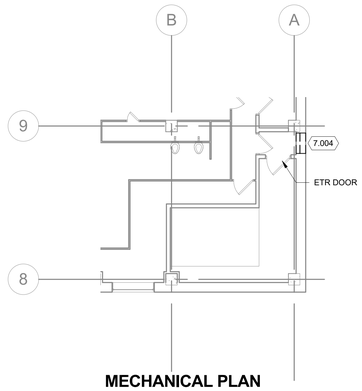
MECHANICAL PLAN
SIXTH FLOOR - NORTHWEST
11 — 1/8" = 1'-0"



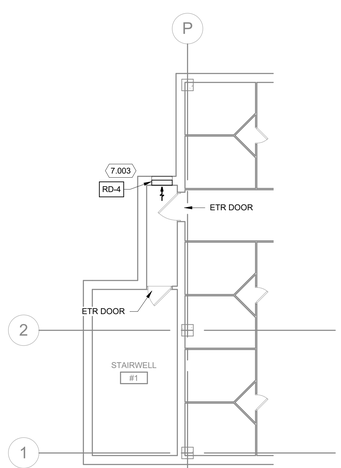
MECHANICAL PLAN
SIXTH FLOOR - SOUTHWEST
8 — 1/8" = 1'-0"



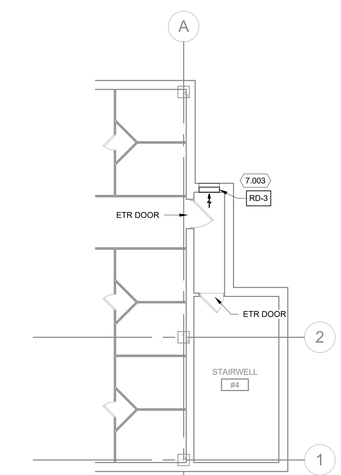
MECHANICAL PLAN
SIXTH FLOOR - NORTHEAST
5 — 1/8" = 1'-0"



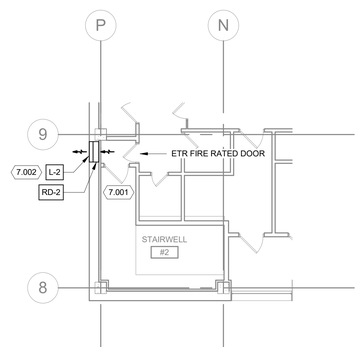
MECHANICAL PLAN
SIXTH FLOOR - SOUTHEAST
2 — 1/8" = 1'-0"



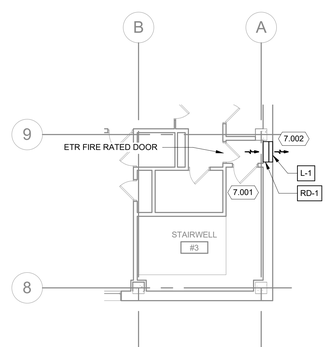
MECHANICAL PLAN
SEVENTH FLOOR - NORTHWEST
12 — 1/8" = 1'-0"



MECHANICAL PLAN
SEVENTH FLOOR - SOUTHWEST
9 — 1/8" = 1'-0"



MECHANICAL PLAN
SEVENTH FLOOR - NORTHEAST
6 — 1/8" = 1'-0"



MECHANICAL PLAN
SEVENTH FLOOR - SOUTHEAST
3 — 1/8" = 1'-0"

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

Potter Lawson
Success by Design

COUNTY of DANE WISCONSIN 1839

DANE COUNTY DEPT. OF PUBLIC WORKS, HIGHWAY & TRANSPORTATION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WI 53713

PROJECT NO. 317006

DANE COUNTY SHERIFF'S OFFICE
CCB JAIL MITIGATION UPGRADES

210 MARTIN LUTHER KING JR. BLVD
MADISON, WISCONSIN 53703

ISSUED
04/04/17 BID DOCUMENTS

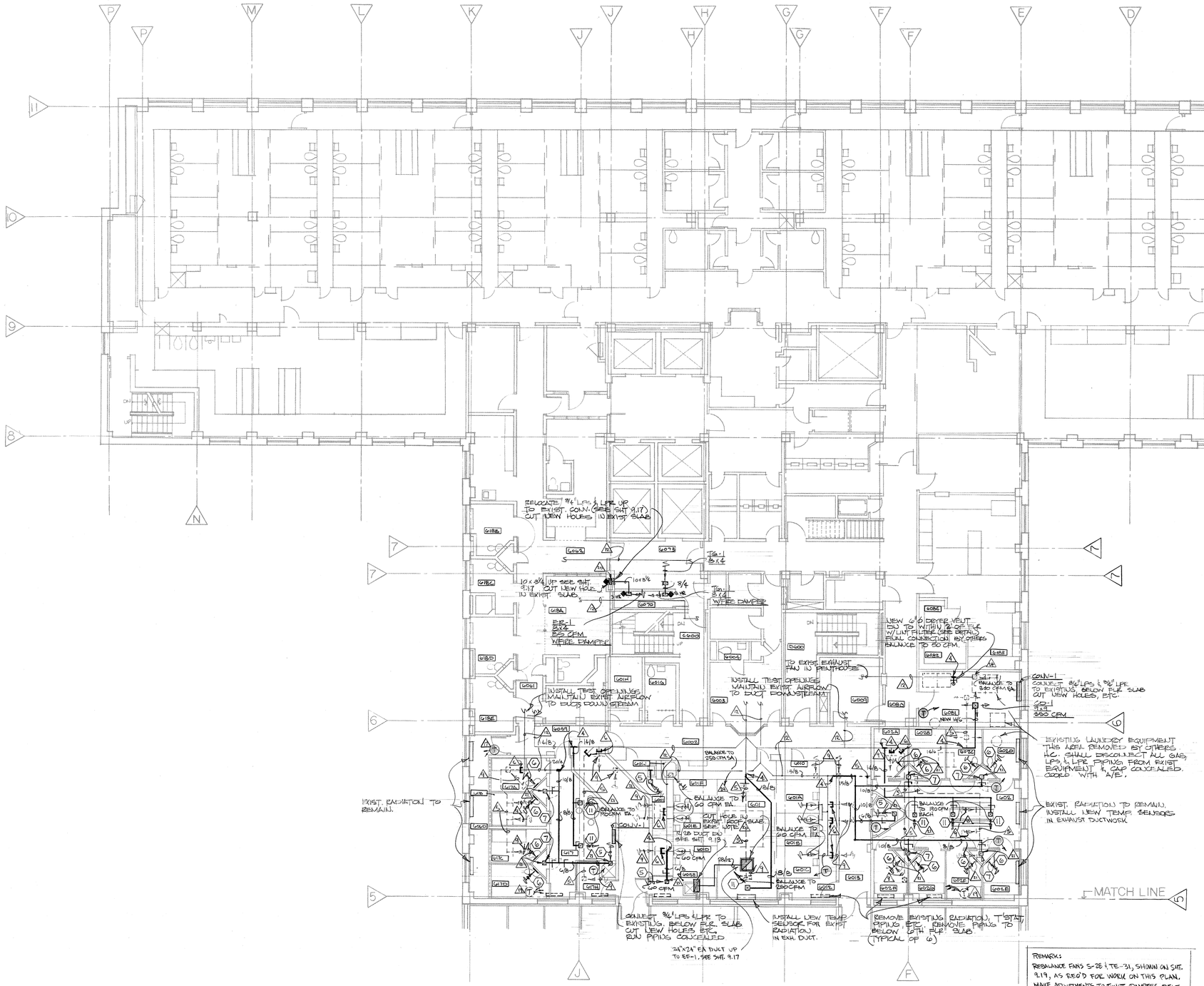
BID DOCUMENTS

M&H NO.: 4215400-161950.01
DATE: April 4, 2017
DESIGNED BY: RFP
DRAWN BY: RJH
CHECKED BY: KML
DO NOT SCALE DRAWINGS

SHEET CONTENTS
MECHANICAL PLANS

SHEET NO.:
M101

3/31/2017 5:14:49 AM C:\Revit Local\4215400-161950.01-M-Central-2017_1928rjh.rvt



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Architects **AIA**
Madison **Wisconsin**

Architecture
Engineering
Planning
Interior Design
Construction Mgt.

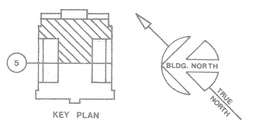
Consultant

ARNOLD & O'SHERIDAN, INC. CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9551 JOB NO. 8224N

NOTES:

1. RELOCATED EXISTING DIFFUSER
2. NEW THERMOSTAT LOCATION. PROVIDE NEW THERMOSTAT. CONNECT TO EXISTING CONVECTOR
3. RETURN DIFFUSER TO OWNER
4. CONNECT NEW DUCTWORK TO EXISTING
5. REMOVE EXISTING DUCTWORK
6. CAP EXISTING DUCTWORK
7. PROVIDE NEW DIFFUSER
8. REMOVE EXISTING DUCT AND REPLACE WITH NEW
9. REMOVE EXISTING REGISTER OR GRILLE AND CAP DUCT OPENING
10. REMOVE AND RELOCATE EXISTING DIFFUSER(S) (SHOWN DOTTED)
11. EXISTING DIFFUSER TO REMAIN
12. EXISTING DUCT TO REMAIN
13. 24" X 12" (50% FREE AREA) DOOR GRILLE BY G.C.
14. 24" X 18" (50% FREE AREA) DOOR GRILLE BY G.C.
15. 24" X 12" (50% FREE AREA) DOOR GRILLE BY G.C. INSTALL IN EXISTING DOOR
16. 24" X 18" (50% FREE AREA) DOOR GRILLE BY G.C. INSTALL IN EXISTING DOOR
17. PROVIDE NEW THERMOSTAT TO REPLACE EXISTING
18. CONNECT CONVECTOR TO THERMOSTAT WITHIN SAME ROOM
19. REMOVE EXISTING THERMOSTAT
20. CUT NEW HOLE(S) IN EXISTING FLOOR SLAB LOCATE BETWEEN EXISTING CONCRETE JOISTS (FIELD VERIFY) COORDINATE HOLE LOCATIONS WITH A/E
21. SEE SECURITY GRILLE SCHEDULE ON SHEET 9.16 FOR GRILLE SIZE AND PERFORMANCE (UNLESS NOTED ON PLANS)
22. EXISTING EXHAUST OR SUPPLY GRILLES TO REMAIN. REBALANCE TO CFM INDICATED.
23. EXISTING DOOR GRILLE TO REMAIN.
24. EXISTING RETURN OR TRANSFER GRILLE TO REMAIN. ADJUST AS REQUIRED FOR CEILING AND/OR WALL CHANGES.
25. WORK SHADED IS NEW.

SCALE : 1/8" 1'-0"



KEY PLAN

Date	Issuance / Revisions	Symbol
2-1-83	DILHR REVIEW / BIDDING	—

City - County Building Vertical Expansion

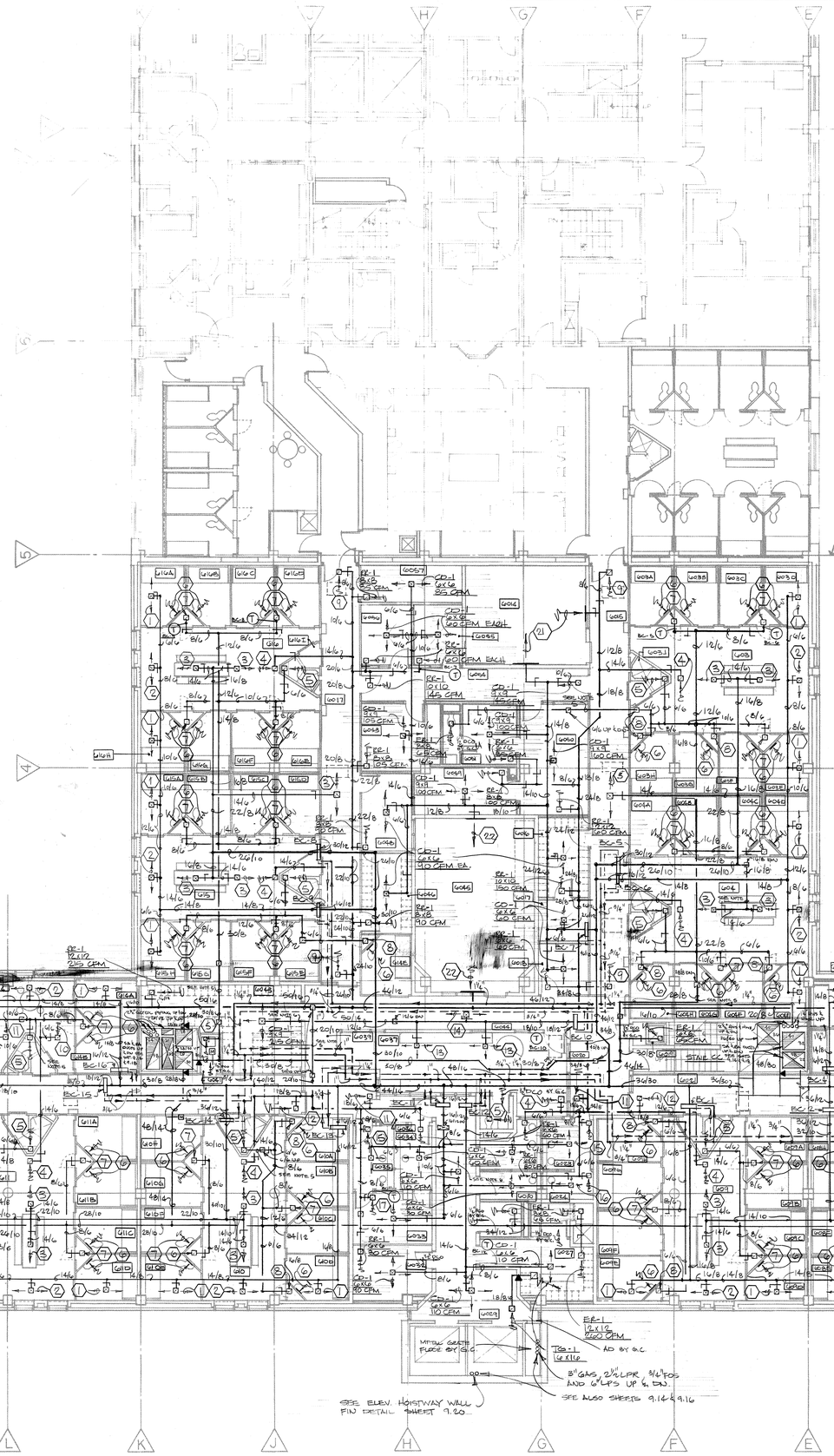
210 monona ave. madison, wisconsin
owner: Dane County, Wisconsin

Drawing Title
SIXTH FLOOR PLAN EAST HVAC

Project No. 16-8231
Drawn By AKO
Sheet No. **9.15**

SHEETS

FOR REFERENCE ONLY



SECURITY GRILLE SCHEDULE

SYMBOL	DESCRIPTION	CFM	NECK SIZE	NUMBER OF HOLES	BAFFLE SEPARATION	REMARKS
1	CEILING SUPPLY	65	6x6	—	9'-01"	PERFABRICATED PREF. CEILING PANELS
2	" "	90	6x6	—	6'-5"	" "
3	CLG. SUP./RET.	880	6x14	704	4'-0"	—
4	CLG. SUP./RET.	295	6x14	630	3'-4"	—
5	CLG. EXHAUST	65	6x6	144	0'-10"	—
6	WALL EXHAUST	65	—	144	—	PERFABRICATED PREF. WALL PANELS
7	CLG. EXHAUST	180	6x8	—	—	—
8	CLG. EXHAUST	65	6x6	—	—	—
9	CLG. SUP./RET.	160	6x8	340	1'-10"	—
10	CLG. RET.	115	6x6	256	1'-4"	—
11	CLG. SUP./RET.	225	6x10	480	2'-3"	—
12	CLG. SUP./RET.	475	6x18	1013	5'-4"	—
13	CLG. SUPPLY	145	6x8	310	1'-8"	—
14	" "	460	6x18	981	5'-2"	—
15	CLG SUP/RET.	60	6x6	128	0'-8"	—
16	" " "	80	6x6	64	0'-8"	—
17	" " "	90	6x6	192	1'-0"	—
18	" " "	135	6x8	290	1'-6"	—
19	" " "	80	6x6	171	0'-11"	—
20	WALL EXHAUST	65	10x10	144	—	PERFABRICATED PREF. WALL PANEL W/FLANGE SEALS TO GRID
21	WALL SUP/RET	290	32x12	640	--	BLOCK WALL
22	WALL SUP/RET.	440	8'x6x16	960	—	" "

REMARKS :

1. GRILLES INCLUDING HOLES, BAFFLES, AND NECK OPENING SHALL BE BY G.C.
2. H.C. SHALL CONNECT DUCTWORK TO GRILLES, PROVIDE VOLUME DAMPERS AND BALANCE SYSTEMS. SEE MECH DETAILS 5/7.01, 41/7.04, & 41/7.05.

Potter Lawson & Pawlowsky Inc.
Architects AIA
Madison Wisconsin

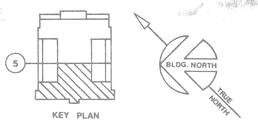
Architecture Interior Design
Engineering Construction Mgt.
Planning

Consultant
ARNOLD & O'SHERIDAN, INC. CONSULTING ENGINEERS
915 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9691 JOB NO. 8824-H

NOTES:

1. All work on this sheet is new construction unless otherwise noted.
2. HWS & HWR piping shall be 3/4" unless otherwise noted.
3. All supply air ductwork and booster coils shall be installed close to structural slab unless otherwise shown. B.C.'s shall be installed to allow access to them for cleaning and maintenance.
4. All exhaust air and return air ductwork shall be installed close to ceiling unless otherwise shown.
5. Install indicated ductwork close to structural slab.
6. Install indicated ductwork close to ceiling.
7. Attention: H.C. is responsible for balancing of supply, return and exhaust air systems. Security ceilings with limited access will be installed by G.C. prior to balancing. Therefore, access to volume dampers will be limited to the crawl space created above the security ceilings. H.C. shall coordinate installation of ductwork and piping and also coordinate with work by P.C. to allow for access through crawl space to volume dampers.
8. Plumbing piping to HVAC equipment shall be installed within 10 feet of equipment by P.C. Final piping connections shall be by H.C.

SCALE : 1/8" 1'-0"



Date	Issuance / Revisions	Symbol
2-1-83	DILHR REVIEW / BIDDING	

City - County Building Vertical Expansion

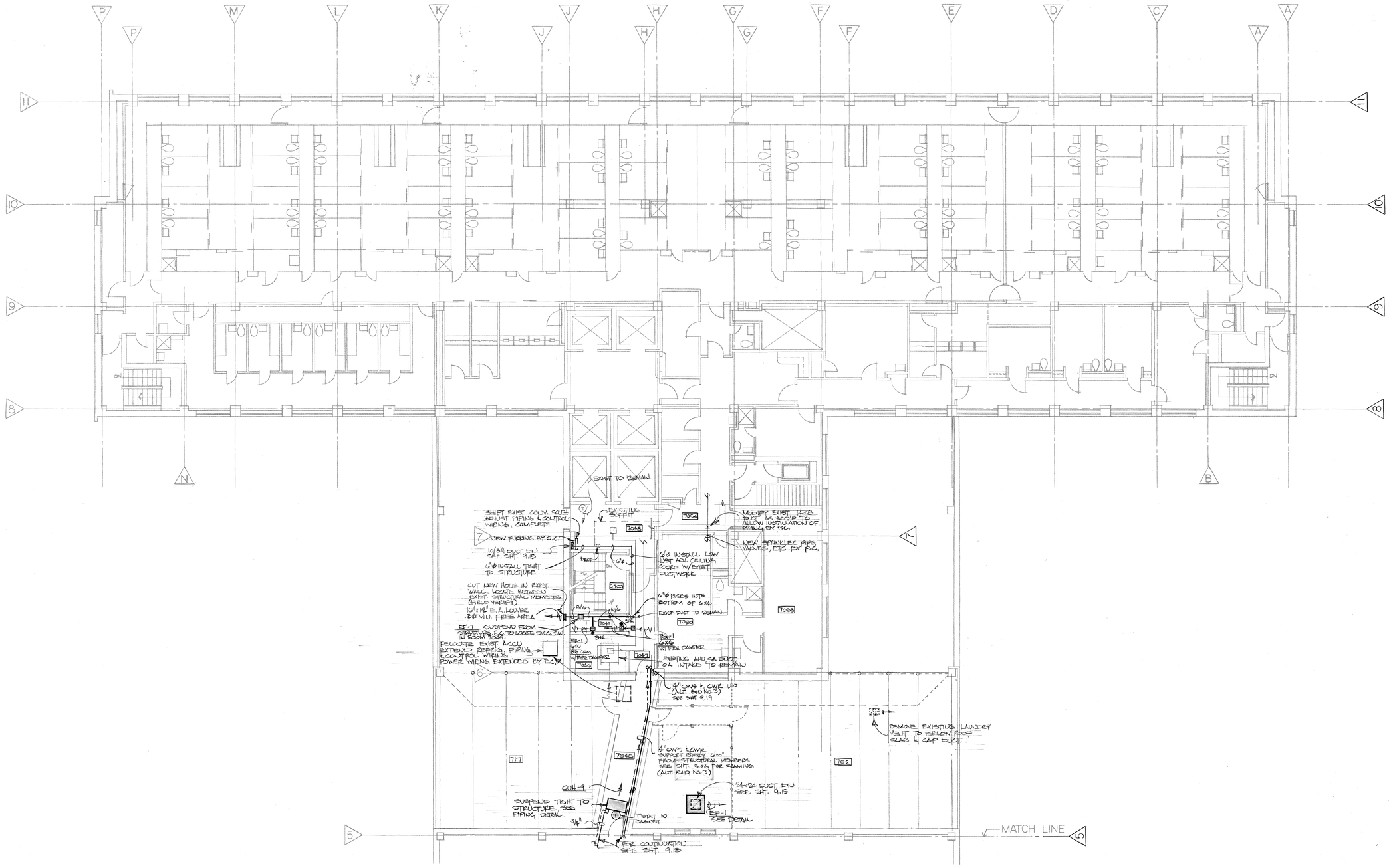
210 monona ave. madison, wisconsin
owner: Dane County, Wisconsin

Drawing Title
SIXTH FLOOR PLAN WEST HVAC

Project No. 16-8231
Drawn By A&O
Sheet No. 9.16

SHEETS

FOR REFERENCE ONLY



NOTE:

FOR CUH-9 INSTALL ALL VALVES WITHIN CABINET. (1) ALT. BID NO. 3 UNIT SHALL BE FULLY RECESSED WITH FRONT & REAR DUCT OUTLETS, DUCT CONNECTORS, AND THE FOLLOWING CEILING DIFFUSER & RETURN GRILLE:

CD-1	RG-2
18x6	16 x 8
300 CFM	300 CFM

SCALE : 1/8" 1'-0"

KEY PLAN

BLDG. NORTH

TRUE NORTH

Date	Issuance / Revisions	Symbol
2.1.83	DILHR REVIEW / BIDDING	—

City - County Building
Vertical Expansion

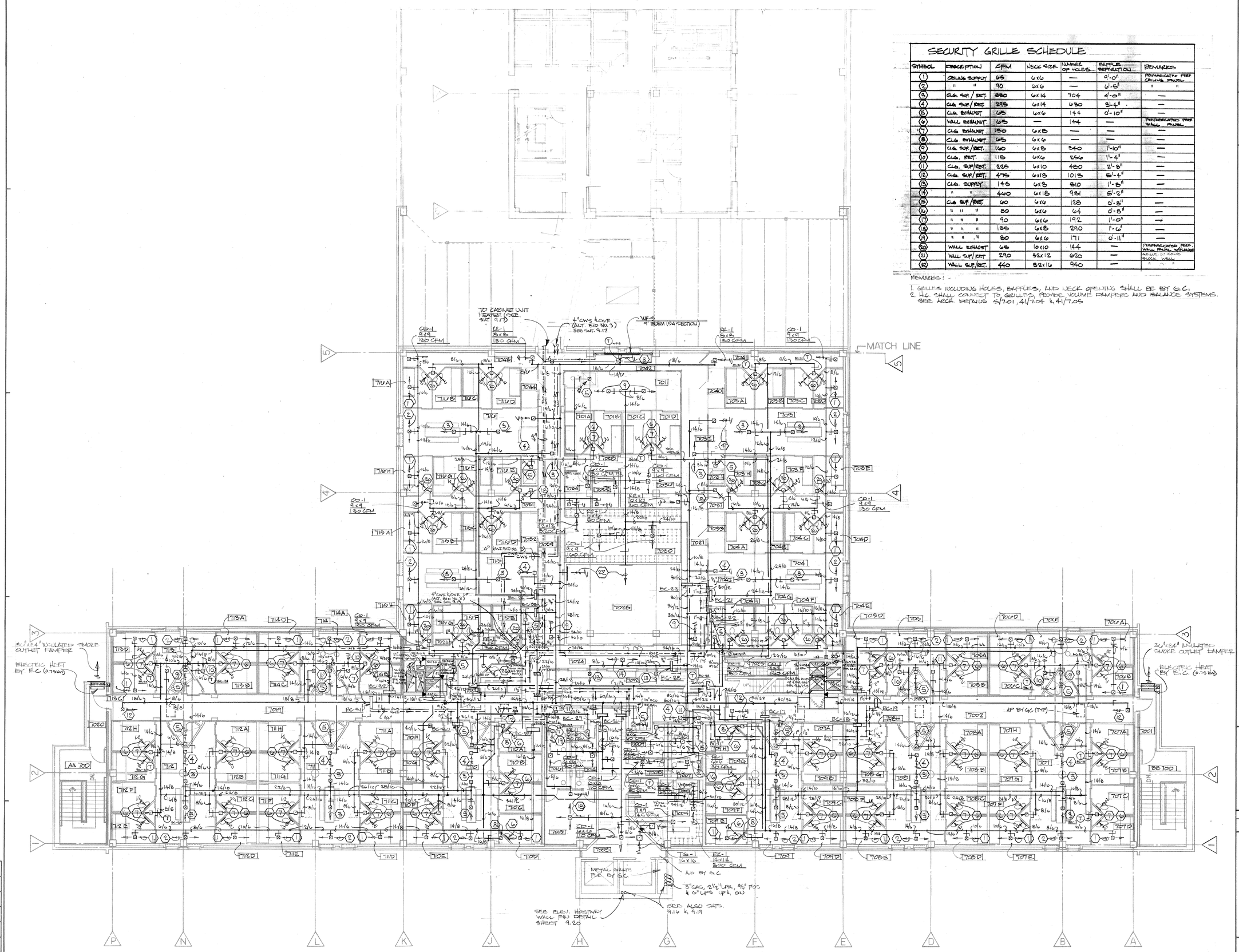
210 monona ave. madison, wisconsin
owner: Dane County, Wisconsin

Drawing Title
SEVENTH FLOOR PLAN EAST HVAC

Project No. 16-8231
Sheet No. 9.17
Drawn By A&O

FOR REFERENCE ONLY

SHEETS



SECURITY GRILLE SCHEDULE

SYMBOL	DESCRIPTION	CFM	NECK SIZE	NUMBER OF HOLES	BAFFLE SEPARATION	REMARKS
①	CEILING SUPPLY	65	6x6	—	9'-0"	PREFABRICATED PERF. CEILING PANEL
②	" "	90	6x6	—	6'-5"	" "
③	CLG. SUP./RET.	330	6x14	704	4'-0"	—
④	CLG SUP./RET.	295	6x14	630	3'-4"	—
⑤	CLG. EXHAUST	65	6x6	144	0'-10"	—
⑥	WALL EXHAUST	65	—	144	—	PREFABRICATED PERF. WALL PANEL
⑦	CLG. EXHAUST	130	6x8	—	—	—
⑧	CLG. EXHAUST	65	6x6	—	—	—
⑨	CLG. SUP./RET.	160	6x8	340	1'-10"	—
⑩	CLG. RET.	115	6x6	256	1'-4"	—
⑪	CLG. SUP/RET.	225	6x10	480	2'-8"	—
⑫	CLG. SUP./RET.	475	6x18	1013	5'-4"	—
⑬	CLG. SUPPLY	145	6x8	310	1'-8"	—
⑭	" "	460	6x18	981	5'-2"	—
⑮	CLG SUP./RET.	60	6x6	128	0'-8"	—
⑯	" " "	30	6x6	64	0'-8"	—
⑰	" " "	90	6x6	192	1'-0"	—
⑱	" " "	135	6x8	290	1'-6"	—
⑲	" " "	80	6x6	171	0'-11"	—
⑳	WALL EXHAUST	65	10x10	144	—	PREFABRICATED PERF. WALL PANEL W/FLANGE
㉑	WALL SUP/RET	290	32x12	620	—	GRILLE IN CONC BLOCK WALL
㉒	WALL SUP./RET.	440	32x16	940	—	" "

REMARKS: -

1. GRILLES INCLUDING HOLES, BAFFLES, AND NECK OPENING SHALL BE BY G.C.
2. H.C. SHALL CONNECT TO GRILLES, PROVIDE VOLUME DAMPERS AND BALANCE SYSTEMS. SEE ARCH. DETAILS 5/7.01, 41/7.04 & 41/7.05

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Planning

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Construction Mgt.

Consultant

ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9651 JOB NO. 82244-H

NOTES:

1. All work on this sheet is new construction unless otherwise noted.
2. HWS & HWR piping shall be 3/4" unless otherwise noted.
3. All supply air ductwork and booster coils shall be installed close to structural slab unless otherwise shown. B.C.'s shall be installed to allow access to them for cleaning and maintenance.
4. All exhaust air and return air ductwork shall be installed close to ceiling unless otherwise shown.
5. Install indicated ductwork close to structural slab.
6. Install indicated ductwork close to ceiling.
7. Attention: H.C. is responsible for balancing of supply, return and exhaust air systems. Security ceilings with limited access will be installed by G.C. prior to balancing. Therefore, access to volume dampers will be limited to the crawl space created above the security ceilings. H.C. shall coordinate installation of ductwork and piping and also coordinate with work by P.C. to allow for access through crawl space to volume dampers.
8. Plumbing piping to HVAC equipment shall be installed within 10 feet of equipment by P.C. Final piping connections shall be by H.C.

SCALE : 1/8" 1'-0"

Date	Issuance / Revisions	Symbol
2·1·83	DILHR REVIEW / BIDDING	—

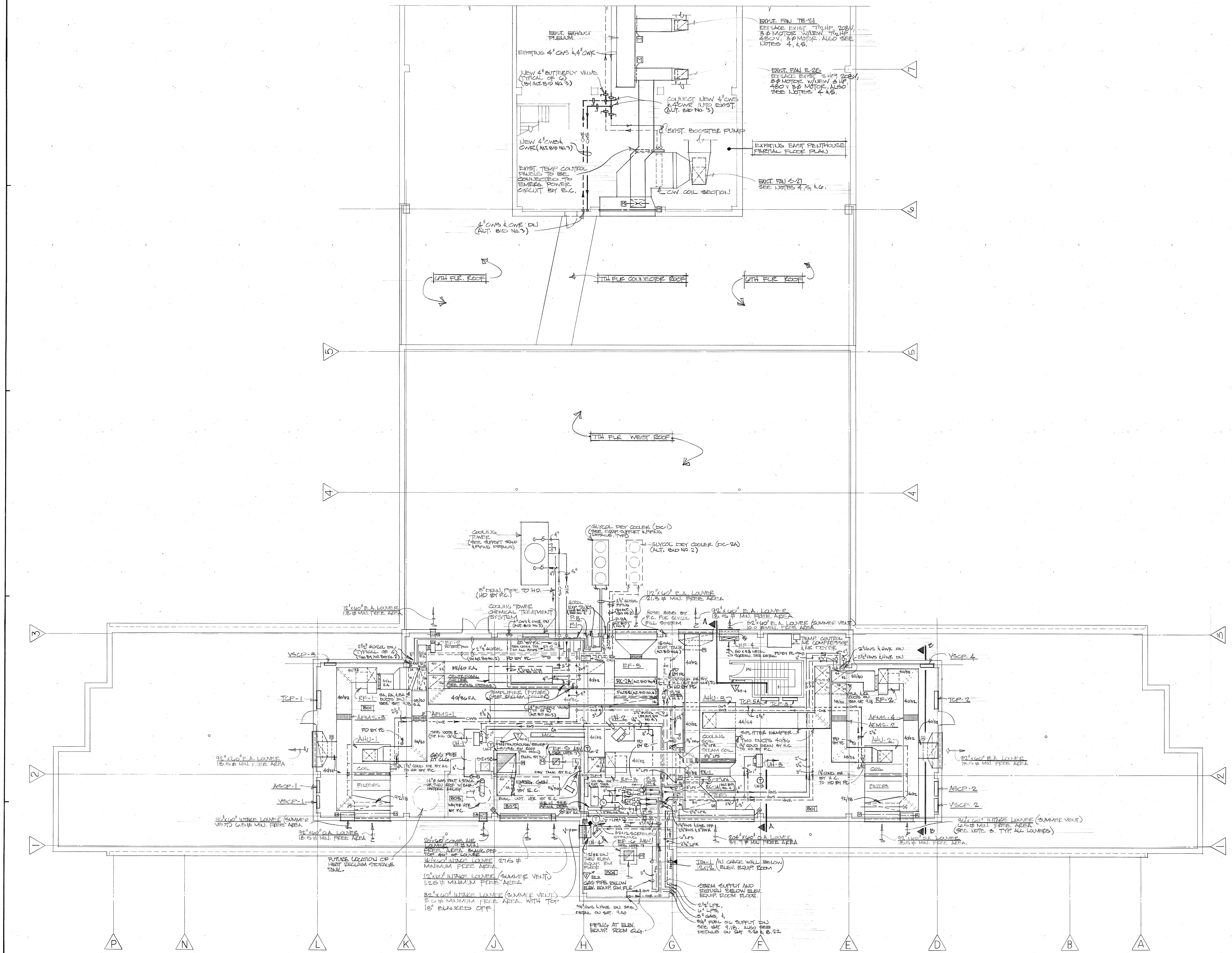
City - County Building Vertical Expansion

210 monona ave. madison, wisconsin
owner: Dane County, Wisconsin

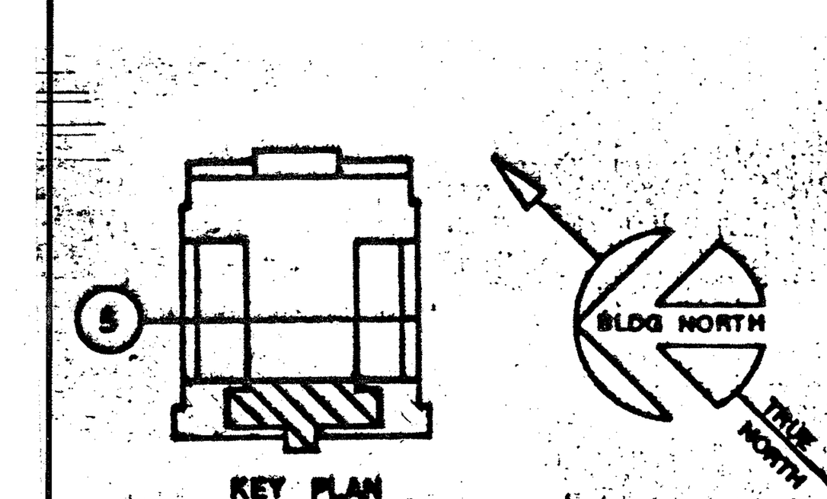
Drawing Title
SEVENTH FLOOR PLAN WEST HVAC

Project No. 16-8231
Drawn By A&O
Sheet No. 9.18

FOR REFERENCE ONLY



SCALE : 1/8" 1'-0"



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ARNOLD & O'SHERIDAN, INC.
CONSULTING ENGINEERS
815 FORWARD DRIVE MADISON, WISCONSIN 53711
608-271-9651 JOB NO. 82244-H

NOTES:

1. ALL HWS & HWR PIPING 3/4" UNLESS OTHERWISE NOTED.
2. INSTALL HOT WATER UNIT HEATERS (UH'S) MINIMUM 7'-0" ABV. FLR. SUPPORT FROM STRUCTURE. SEE PIPING DETAILS.
3. SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF LOUVERS.
4. MOTORS FOR THESE FANS WILL BE CONNECTED TO NEW EMERGENCY POWER CIRCUIT BY E.C.
5. MOTORIZED OA, RA, AND EA DAMPERS FOR THESE FANS WILL BE INTERCONNECTED TO NEW SMOKE MODE CONTROL BY H.C.& T.C.S.
6. ADJUST MOTOR FAN DRIVES AND VOLUME DAMPERS AS NECESSARY TO REBALANCE FANS FOR WORK SHOWN ON SHT. 9.15
7. EXHAUST FANS ARE ROOF MOUNTED. SEE DETAIL, PROVIDE SHEETMETAL DUCTWORK AND METAL SCREENS AS DETAILED AND AS FOLLOWS:
   - EF-5: 16x16 DUCTWORK W/ 14x14 METAL SCREEN ON TWO SIDES.
   - EF-6: 24x24 DUCTWORK W/ 22x22 METAL SCREEN ON TWO SIDES.
8. SEE PUMP PIPING DETAILS FOR INLINE AND BASEMOUNTED PUMPS. PROVIDE BYPASS FEEDERS FOR FOLLOWING PUMPS: P-1 (BASEMOUNTED) AND P-6 (INLINE).

Date	Issuance / Revisions	Symbol
2.1.83	DILHR REVIEW / BIDDING	—

City - County Building Vertical Expansion

210 monona ave. madison, wisconsin
owner: Dane County, Wisconsin

Drawing Title
PENTHOUSE FLOOR PLAN WEST HVAC

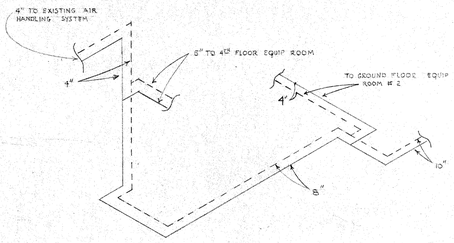
Project No. 16-8231
Drawn By A&O
Sheet No. 9.19

FOR REFERENCE ONLY

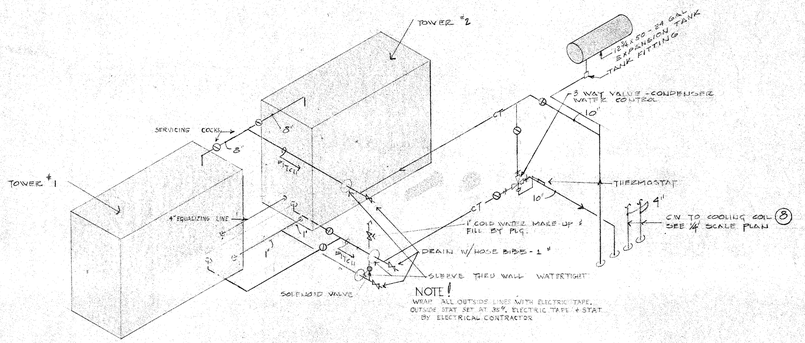
TELEDYNE POST

GENERAL CONSTRUCTION	
1.	SEAL HOLE WHERE DUCTS HAVE BEEN REMOVED WITH 8" CONC. BLOCK. 2'-6" X 11'-0" HIGH
2.	CUT NEW 66X17 HOLE IN FLOOR & 66X21 HOLE IN FLUOR. DO NOT CUT CONCRETE JOIST.
3	REMOVE CONCRETE TOWER & FENCE SUPPORTS. PATCH BUILT-UP ROOF.

NOTE!
SEE STRUCTURAL PLANS SHEETS 2 & 3 FOR STRUCTURAL REQUIREMENTS FOR NEW TOWER.



CHILLED WATER DIAGRAM



COOLING TOWER CONNECTION DETAIL
NO SCALE

ELECTRICAL NOTES

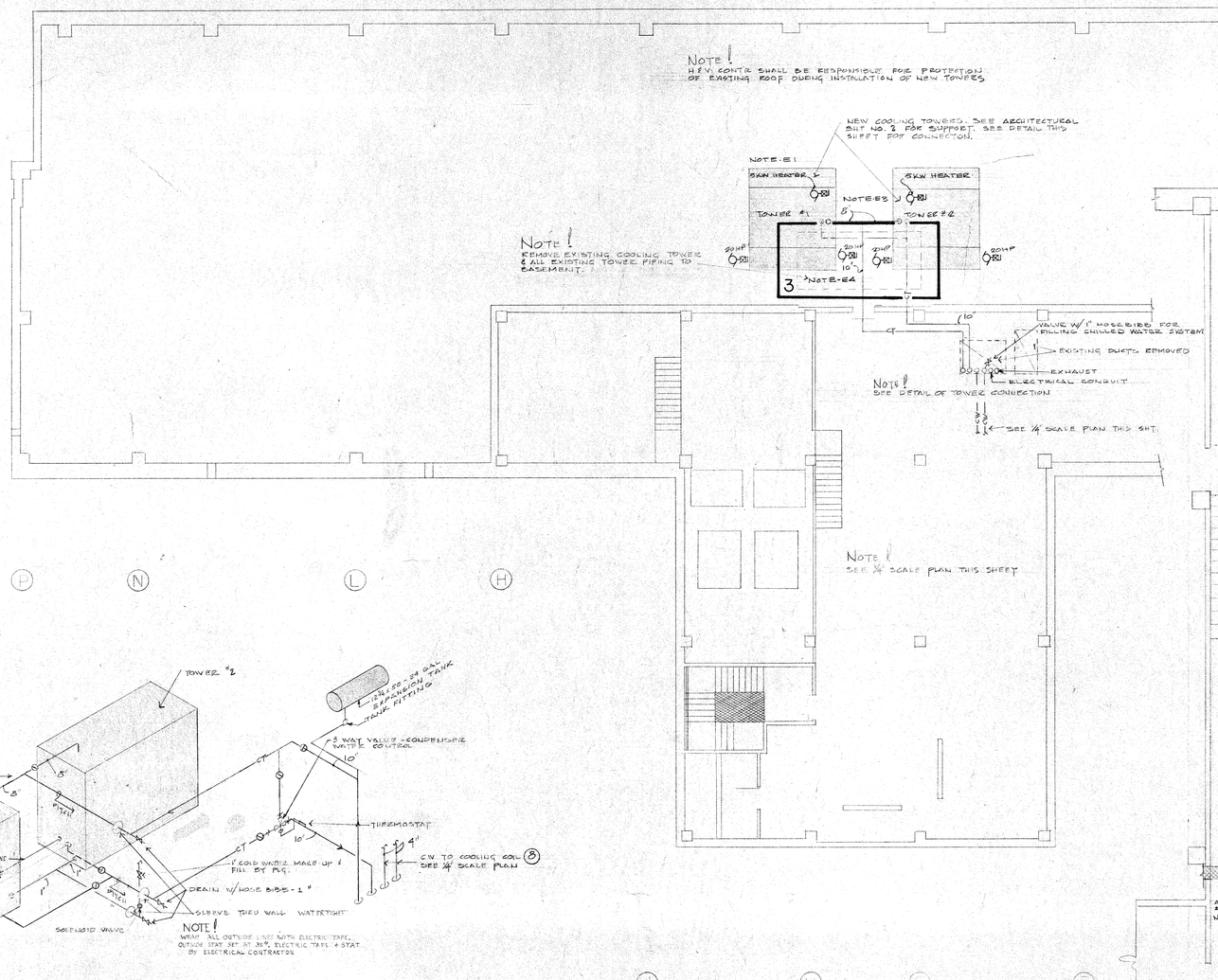
E1. DISCONNECT EXISTING FAN MOTOR

E2. INSTALL NEW PANEL ADJACENT EXISTING FEED COOLING TOWER AND ALL NEW EQUIPMENT FROM THIS PANEL. (EXISTING EQUIPMENT SHALL REMAIN ON EXISTING PANEL)

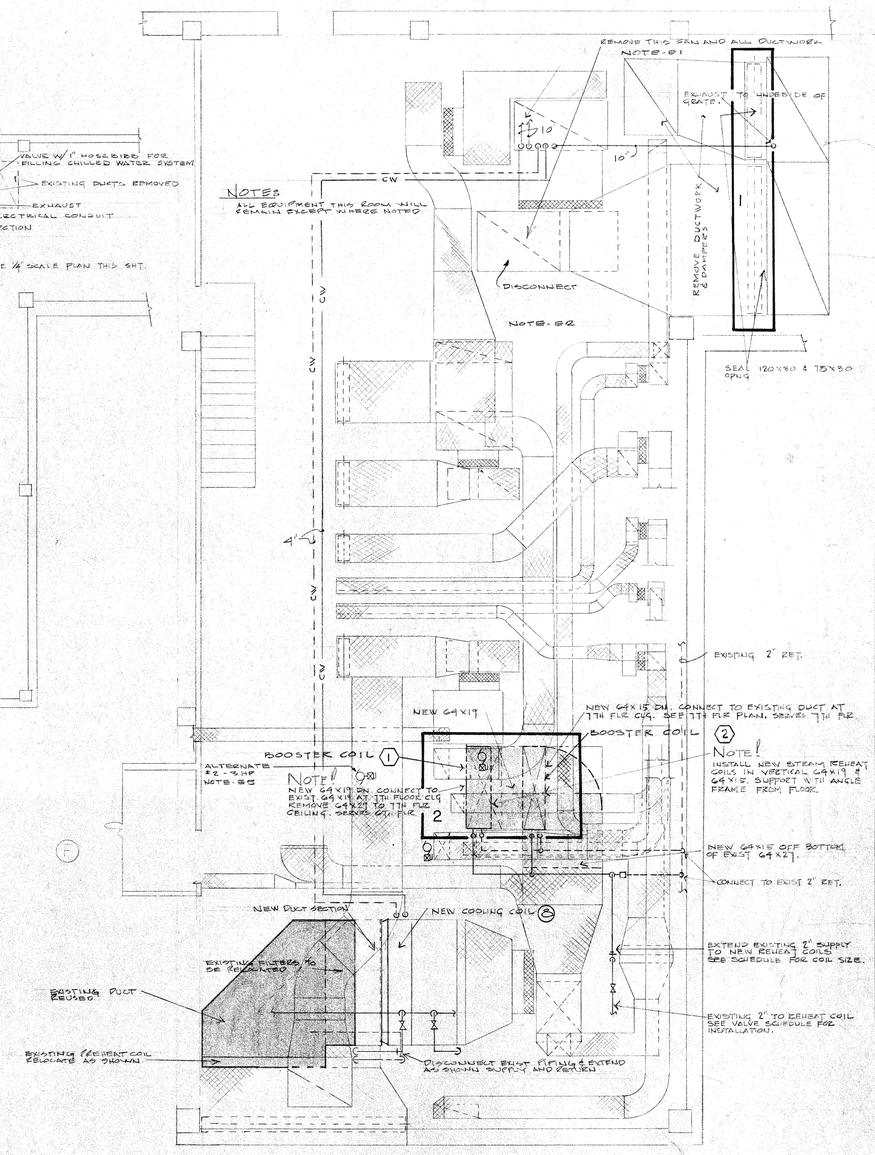
E3. CONNECT 4-20 HP COOLING TOWER FANS, 2-5KW ELECTRIC HEATERS, USE WEATHERPROOF DISCONNECTS AND STARTERS AS SPECIFIED.

E4. FURNISH AND INSTALL ELECTRIC HEATING CABLE FOR 6 PIPES APPROX. 65 FEET LONG EACH. INSTALL THERMOSTAT AND 1 CONTACTOR TO CONTROL ALL CABLES. SET THERMOSTAT AT 35°F. CHROMALOX 'MI' CABLE.

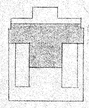
E5. SEE ALTERNATE SHEET FOR CHANGES RELATED TO ALTERNATE BIDS.



PENTHOUSE AND ROOF PLAN
SCALE: 1/8"=1'-0"



PENTHOUSE PLAN
SCALE 1/4" = 1'-0"



FOR REFERENCE ONLY

PENTHOUSE AIR CONDITIONING CITY–COUNTY BLD'G. CITY OF MADISON DANE COUNTY WISCONSIN	SHEET 19 OF 45
MECHANICAL SYSTEMS CONSULTANTS DESIGN INC. MADISON, WISCONSIN	

Affiliated Engineers

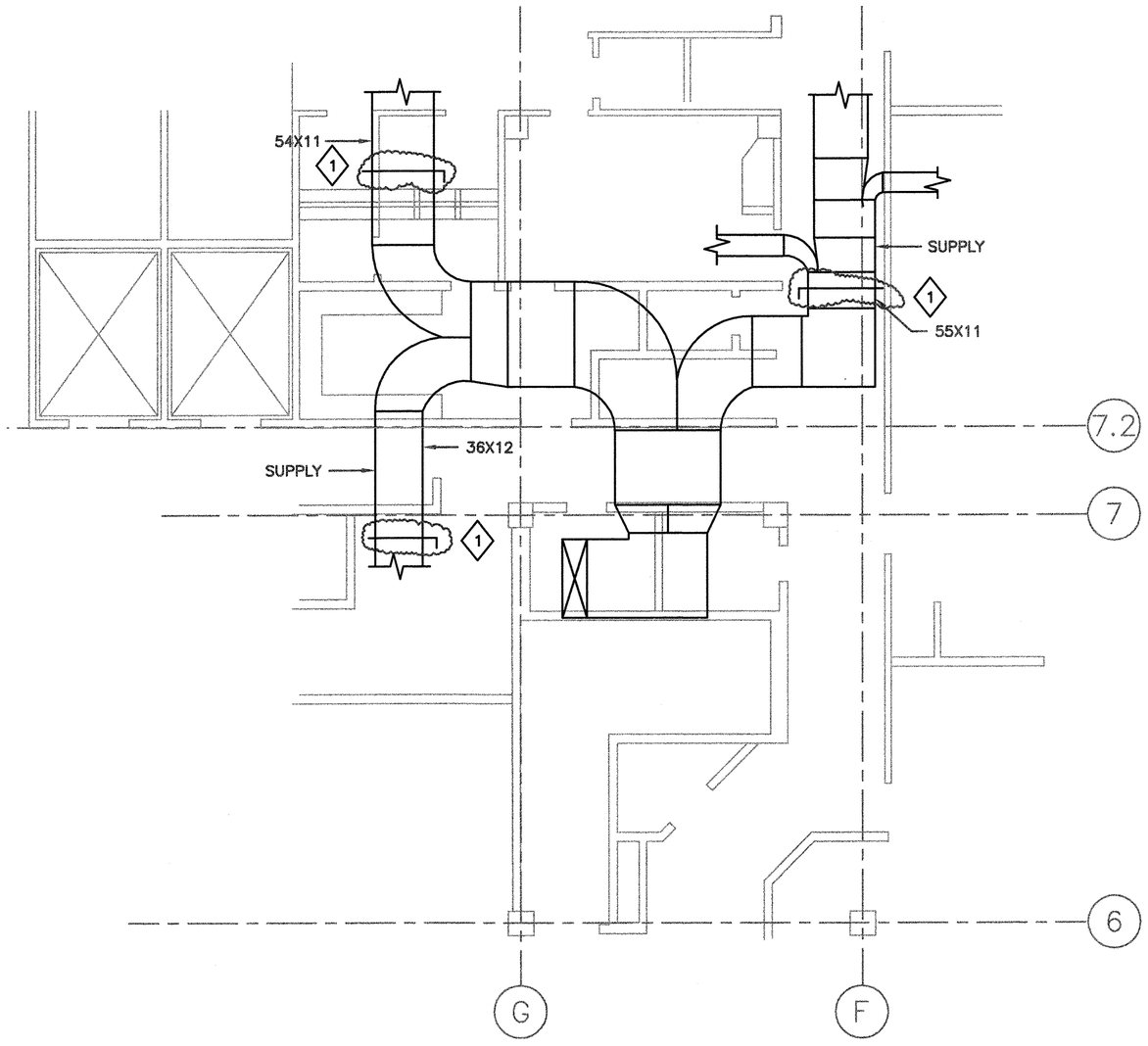
Affiliated Engineers, Inc.
625 North Segoe Road P.O. Box 5039
Madison, Wisconsin 53705-0039
Tel 608/238-2616 Fax 608/238-2614

General Notes

Plan Notes

1. VERIFY DUCT SIZES BEFORE ORDERING DAMPERS.

Revisions



1 PARTIAL 6TH FLOOR PLAN
SCALE: 1/8"=1'-0"

NORTH

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

PARTIAL 6TH
FLOOR PLAN

Date	Drawn By
5/8/00	AEI

Scale

1/8" = 1'-0"

Project Number

00302-00

Sheet Number

CCB-0

FOR REFERENCE ONLY

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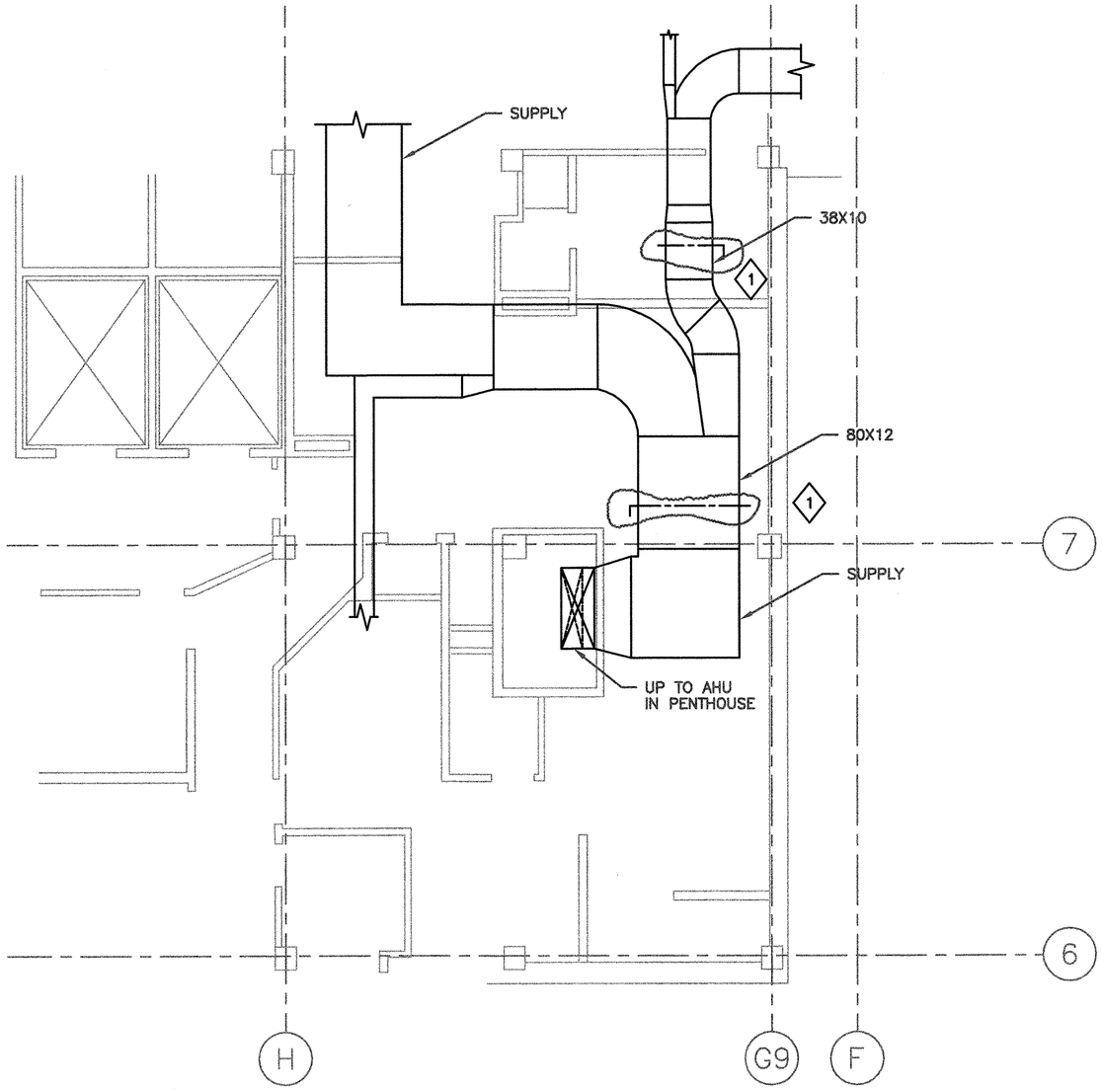


1 PARTIAL 7TH FLOOR PLAN
SCALE: 1/8"=1'-0"

NORTH

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

PARTIAL 7TH
FLOOR PLAN

Date	Drawn By
5/8/00	AEI

Scale

1/8" = 1'-0"

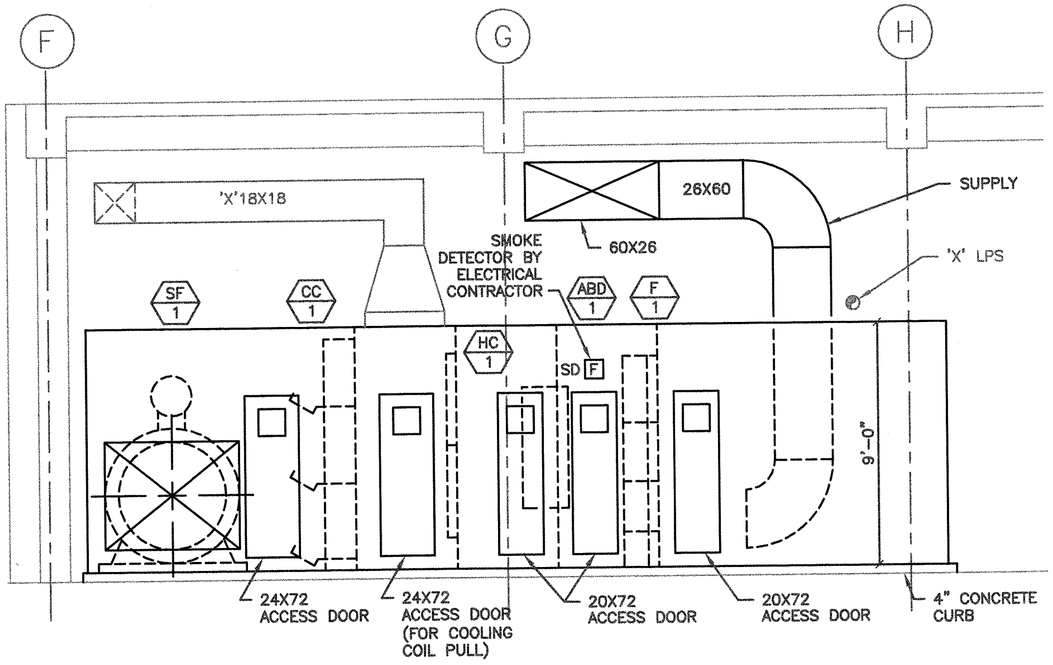
Project Number

00302-00

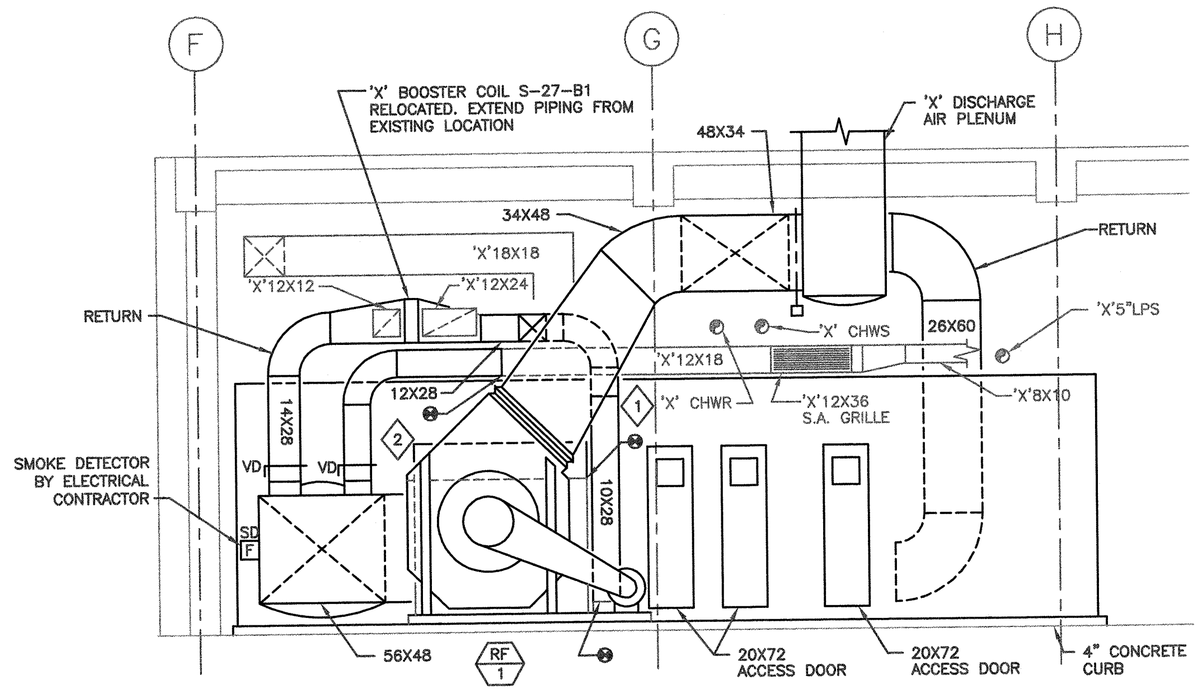
Sheet Number

CCB-1

FOR REFERENCE ONLY



1 / M1-1 AIR HANDLING UNIT SECTION
SCALE: 1/4"=1'-0"



2 / M1-1 AIR HANDLING UNIT SECTION
SCALE: 1/4"=1'-0"

FOR REFERENCE ONLY

AEI Affiliated Engineers

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General Notes

Plan Notes

1. FLANGES AT TOP AND BOTTOM OF DUCT FOR REMOVAL TO PULL COOLING COILS
2. EXTEND INLET PLENUM 1'-0". RECONNECT EXISTING 10X8 DUCT.

Revisions

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

PENTHOUSE
SECTIONS

Date	Drawn By
5/8/00	AEI

Scale

1/4" = 1'-0"

Project Number

00302-00

Sheet Number

M1-1

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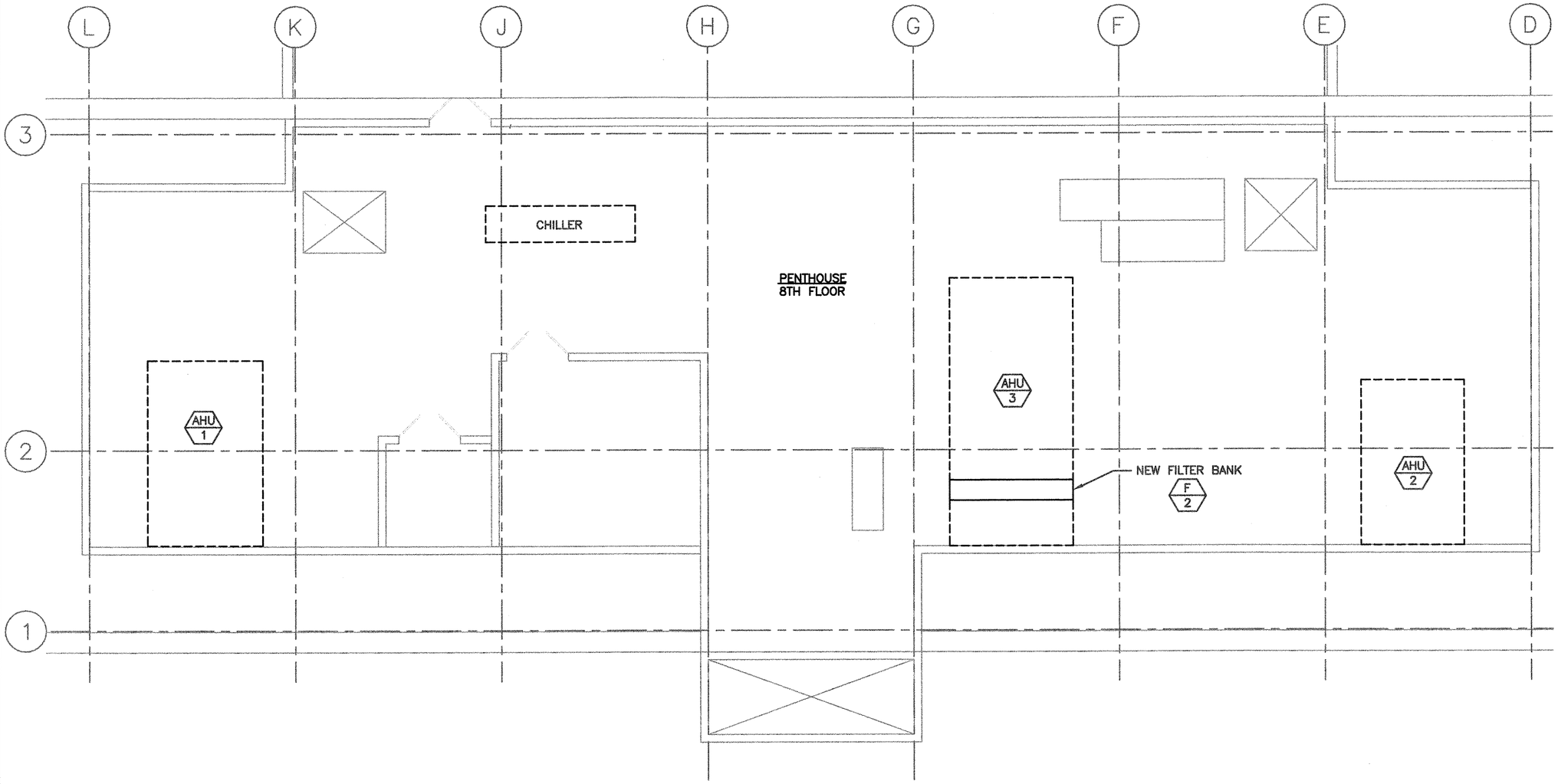

1 PARTIAL PENTHOUSE FLOOR PLAN
SCALE: 1/8"=1'-0"

PLAN NORTH

General Notes

Plan Notes

Revisions

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

PARTIAL PENTHOUSE
FLOOR PLAN

Date	Drawn By
5/08/00	AEI

Scale

1/8' = 1'-0"

Project Number

00302-00

Sheet Number

M1-2

FOR REFERENCE ONLY

VARIABLE FREQUENCY DRIVES

MARK VFD	SYSTEM	MAX. HORSEPOWER	KVA RATING	INPUT ELECTRICAL CHARACTERISTICS			INTERLOCK	REMARKS
				VOLT	FREQUENCY	PHASE		
1	SF–1	75	–	460	60	3	–	ABB W/MANUAL BY–PASS
2	RF–1	15	–	460	60	3	–	ABB W/MANUAL BY–PASS

AIR MIXING DEVICES

MARK AMD	LOCATION	SERVICE	MAXIMUM			MINUMUM			OVERALL DIMENSION (IN)			REMARKS
			FLOW RATE (CFM)	VEL. (FPM)	PD ("WG)	FLOW RATE (CFM)	VEL. (FPM)	PD ("WG)	H / DIA.	W	L	
1	PENTHOUSE MER	MIXED AIR	35,000	1,200	0.3	21,000	750	0.1	96/48	16	132	BLENDER PRODUCTS

HEATING COILS IN CENTRAL STATIONS (STEAM)

MARK HC	SYSTEM	NO.	TOTAL CAP.		NOMINAL SIZE			AIR SIDE				STEAM SIDE		REMARKS
			MBH	CFM	FACE AREA (SQ.FT)	DIM (IN) H	DIM (IN) L	MAX. FACE VEL.	MAX. PD ("WG)	EAT (°F)	LAT (°F)	LBS/HR	PRESS. (PSIG)	
1	AHU–1	2	1,595	35,000	18.75	30	90	950	0.35	30	72	1,650	2	TRANE TYPE N

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Plan Notes

1. VERIFY DUCT SIZES BEFORE ORDERING DAMPERS.

Revisions

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

EQUIPMENT
SCHEDULES

Date 5/8/00

Drawn By AEI

Scale NONE

Project Number 00302–00

Sheet Number

M2–0

FILTERS AND FILTER HOUSINGS

MARK F	SYSTEM	LOCATION	TYPE	CFM	MIN. FACE AREA (SQ.FT)	PRESS. DROP ("WG) INITIAL	PRESS. DROP ("WG) FINAL	PD FOR FAN TSP AND AIR BALANCE	MIN. EFF. (%)	MEDIA LENGTH (IN)	REMARKS
1	AHU-1	PENTHOUSE MER	CARTRIDGE	35,000	80	0.6	1.3	1	90	12	FARR 30/30 PREFILTER
2	AHU-3 EXISTING	PENTHOUSE MER VERTICAL EXPANSION	PLEATED	31,750	72	0.25	0.9	0.6	30	2	FARR 30/30 (18) 24X24*

* REMOVE EXISTING FILTER FRAME. INSTALL NEW FRAME FOR NEW FILTERS.

SUPPLY, RETURN, AND EXHAUST FANS

MARK SF/RF/EF	LOCATION	SERVICE	CFM	SP ("WG)	FAN TYPE	FAN DRIVE	WHEEL TYPE	WHEEL MIN. DIA.	MAXIMUM RPM	FAN CLASS	FAN ARRANGEMENT
SF-1	PENTHOUSE MER	6TH AND 7TH	35,000	7 1/2	VANE AXIAL	BELT	_	43	1800	_	9
RF-1	PENTHOUSE MER	6TH AND 7TH	23,070	2 1/2	CENTRIFUGAL	BELT	AF	44	700	1	3

SUPPLY, RETURN, AND EXHAUST FANS

MARK SF/RF/EF	FAN MOTOR LOCATION	FAN DISCHARGE AND ROTATION	DAMPER	INTERLOCK	MOTOR HP	MOTOR PH	MOTOR VOLT	MOTOR VFD	REMARKS
SF-1	_	_	NO	_	75	3	460	YES	BUFFALO TYPE S ADJUSTAX 43D9 W/ INLET SCREEN
RF-1	W	TAU/CW	NO	SF-1	15	3	460	YES	GREENHECK 44AFSW, FURNISH W/SPLIT SCROLL HOUSING

COOLING COILS IN CENTRAL STATIONS

MARK CC	SYSTEM	NO.	TOTAL CAP. MBH	TOTAL CAP. CFM	NOMINAL SIZE FACE AREA (SQ.FT)	DIM (IN) H	DIM (IN) L	AIR SIDE MAX. FACE VEL.	AIR SIDE MAX. PD ("WG)	EAT (°F) DB	EAT (°F) WB	LAT (°F) DB	LAT (°F) WB	WATER SIDE GPM	WATER SIDE MAX. PD (FT)	WATER SIDE EWT (°F)	REMARKS
1	AHU-1	3	1,429	35,000	25	30	120	470	0.6	77.5	65.5	52	51.7	288	10	45	8 ROW/WD/PE/94

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General Notes

Plan Notes

Revisions

Project

HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

EQUIPMENT
SCHEDULES

Date 5/8/00

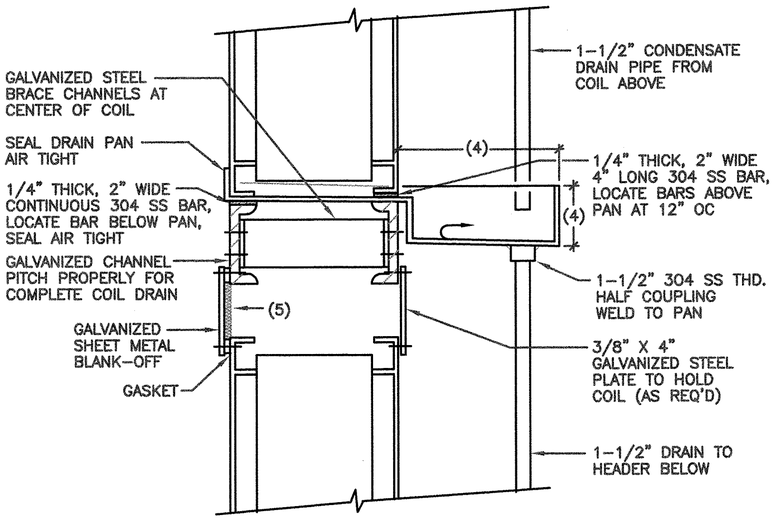
Drawn By AEI

Scale NONE

Project Number 00302-00

Sheet Number

M2-1



NOTES:

(1) CONDENSATE DRAIN PAN TO BE 16 GAUGE STAINLESS STEEL ALL WELDED CONSTRUCTION.

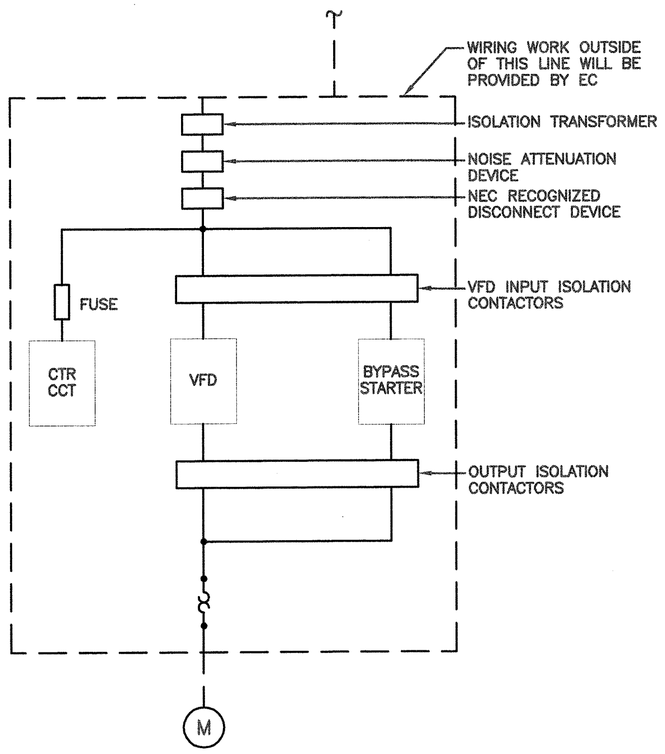
(2) PAN LENGTH TO BE SUFFICIENT TO COVER COIL TUBE BENDS AND UNIONS.

(3) CONDENSATE DRAIN PIPE TO BE SCH. 40, 304 SS PIPE BOTTOM DRAIN PAN TO NEAREST HD WITH TRAP. LOCATE TRAP OUTSIDE HOUSING.

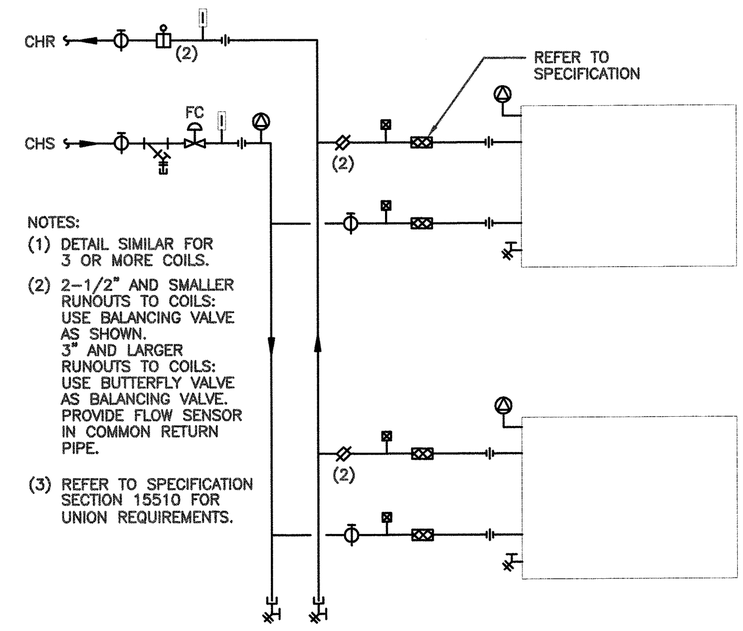
(4) DRAIN PAN TO EXTEND NO MORE THAN 12" DOWNSTREAM OF COIL FACE WITH MINIMUM DEPTH OF 2".

(5) 3/4" INSULATION SIMILAR TO ARMAFLEX II. PROVIDE INSULATION FOR ALL BLANK-OFF.

3 COOLING COIL SUPPORT
SCALE: NONE



1 VFD SYSTEM WIRING BLOCK DIAGRAM
SCALE: NONE



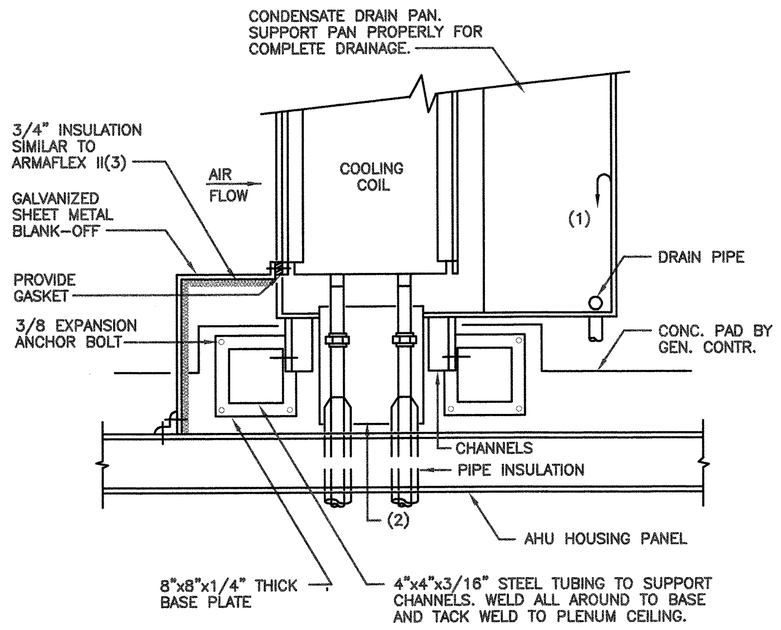
NOTES:

(1) DETAIL SIMILAR FOR 3 OR MORE COILS.

(2) 2-1/2" AND SMALLER RUNOUTS TO COILS: USE BALANCING VALVE AS SHOWN. 3" AND LARGER RUNOUTS TO COILS: USE BUTTERFLY VALVE AS BALANCING VALVE. PROVIDE FLOW SENSOR IN COMMON RETURN PIPE.

(3) REFER TO SPECIFICATION SECTION 15510 FOR UNION REQUIREMENTS.

4 CHILLED WATER COOLING COIL PIPING
SCALE: NONE (MULTIPLE COILS)



NOTES:

(1) PITCH CONDENSATE PAN TOWARD DRAIN CONNECTION WITH MINIMUM PITCH OF 1/4" PER FOOT.

(2) PROVIDE DRAIN PAN UNDER NON-INSULATED PIPING BETWEEN COIL AND HOUSING WALL.

(3) PROVIDE INSULATION FOR ALL BLANK-OFF.

2 COOLING COIL SUPPORT
SCALE: NONE

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General Notes

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HVAC MODIFICATIONS
6TH AND 7TH
FLOORS CITY
COUNTY BUILDING
MADISON, WISCONSIN

Sheet Title

DETAILS

Date	Drawn By
5/8/00	AEI

Scale

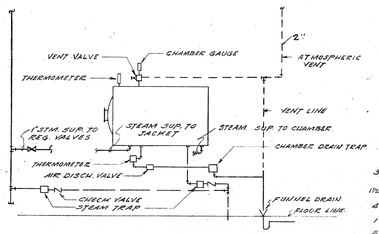
NONE

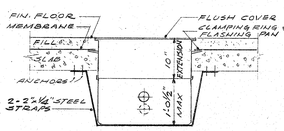
Project Number

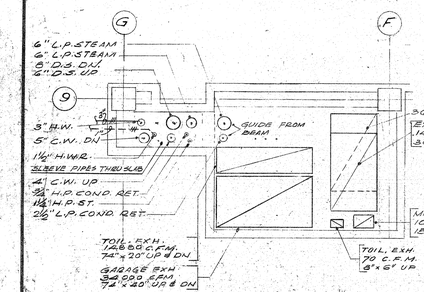
00302-00

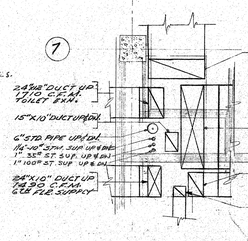
Sheet Number

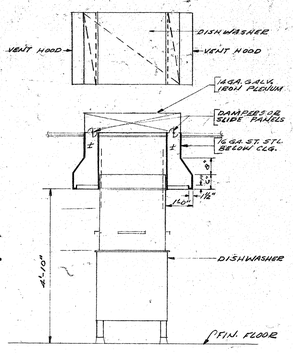
M3-0

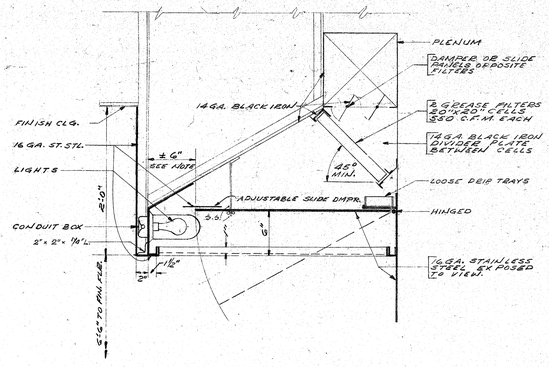


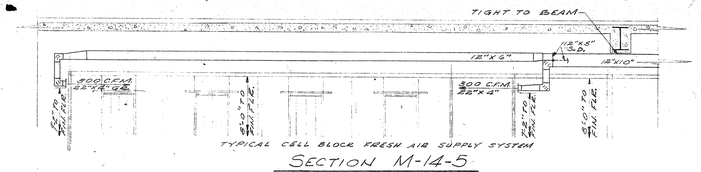


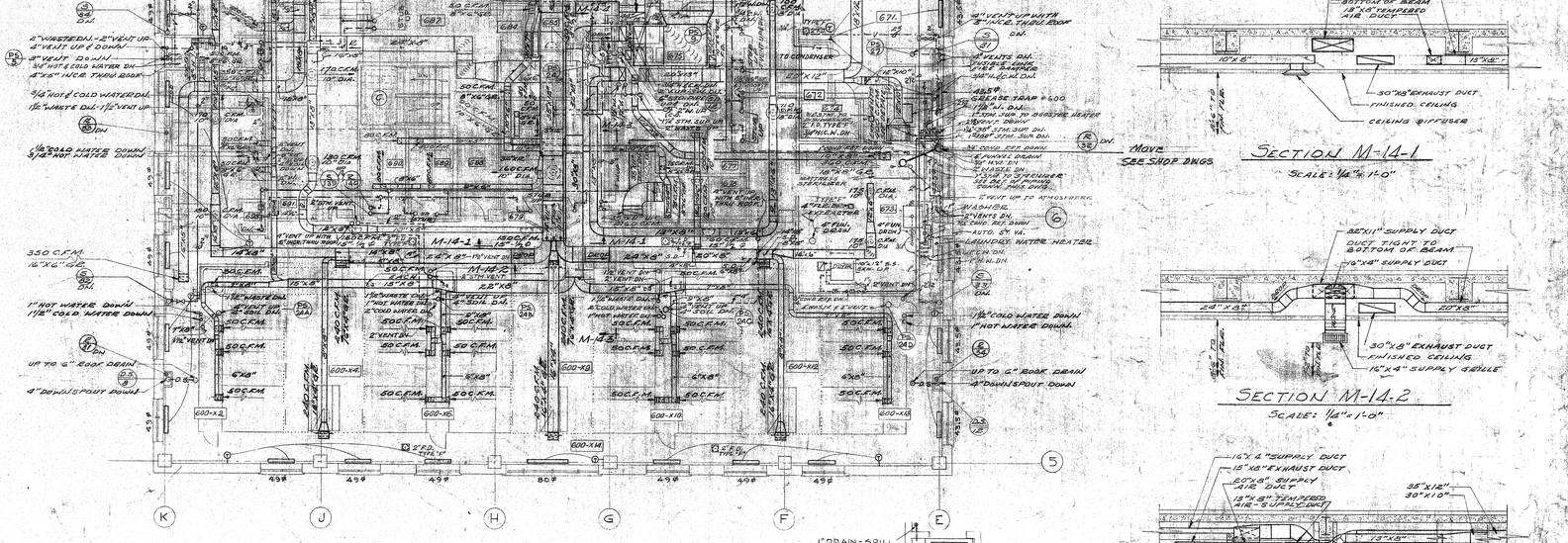












CONNECTIONS TO MATTRESS STERILIZER
NO SCALE

DETAIL OF Nº 600 GREASE TRAP
NO SCALE

DETAIL of DUCT SHAFT No. 1
SCALE: ¼"=1'-0"

DETAIL of DUCT SHAFT No. 2
SCALE: ¼"=1'-0"

SECTION M-14-1
SCALE: ¼"=1'-0"

SECTION M-14-2
SCALE: ¼"=1'-0"

SIXTH FLOOR PLAN
SCALE: ⅛"=1'-0"

DETAIL of EXHAUST HOOD
FOR
DISHWASHER
NO SCALE

DETAIL of EXHAUST HOOD
FOR
KITCHEN RANGE
NO SCALE

SECTION M-14-3
SCALE: ¼"=1'-0"

NOTE:
DESIGN SLOT SIZE AROUND EDGES OF HOODS TO HANDLE REQUIRED VOLUME AT A VELOCITY OF 250 FT./MINUTE.

SECTION M-14-5
SCALE: ¼"=1'-0"

SECTION M-14-4
SCALE: ¼"=1'-0"

PART PLAN
SCALE ¼"=1'-0"

NOTE ALL CONVECTORS ON THIS FLOOR SHALL BE 26" HIGH & 6" DEEP UNLESS OTHERWISE NOTED.

FOR TOILET ROOM PLUMBING DETAILS SEE SHEET M-27.

As Built
10-10-57

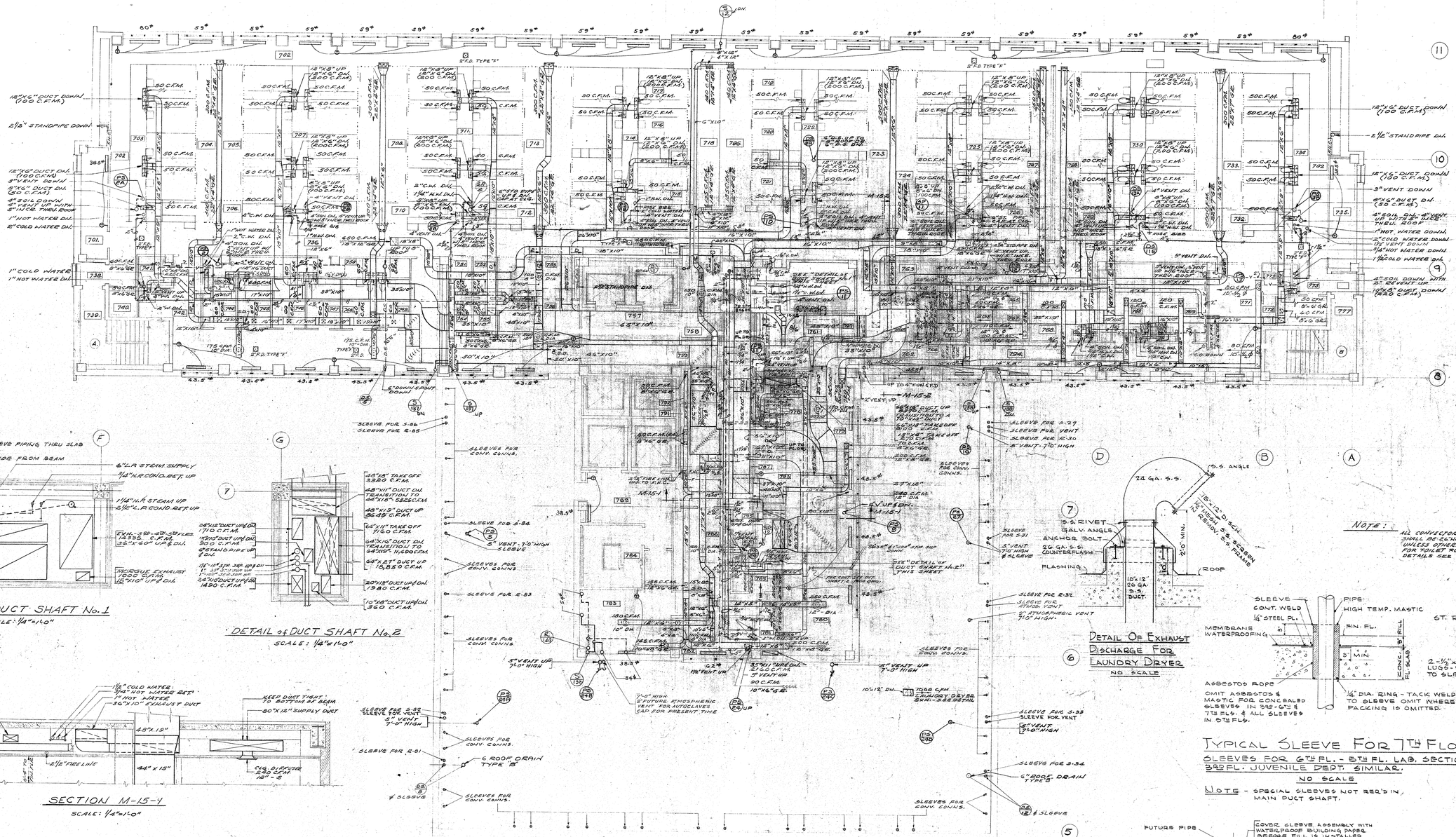
SIXTH FLOOR PLAN - EAST

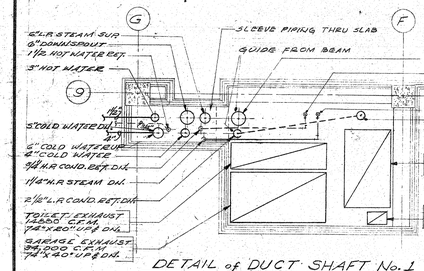
COURT HOUSE AND CITY HALL
BLOCK 85, CITY OF MADISON
DANE COUNTY, WISCONSIN

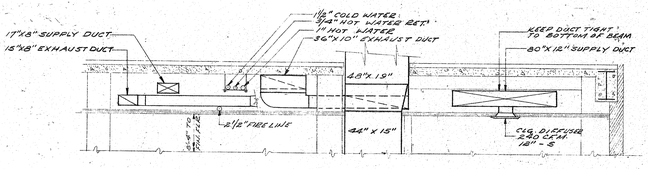
HOLABIRD & ROOT & BURGEE
ARCHITECT - ENGINEER, CHICAGO, ILL.
LAW LAW POTTER & NYSTROM
ASSOCIATE ARCHITECTS. MADISON, WIS.

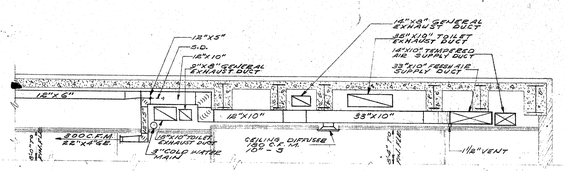
REVISIONS	DATE

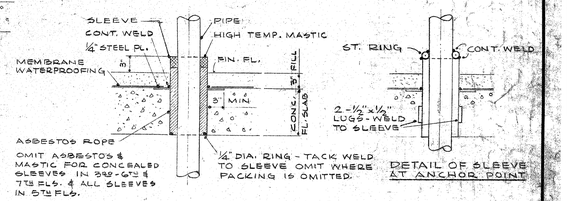
COMMISSION 8822
SCALE As Noted
DATE DEC. 22, 1954
DWG. NO.
M14

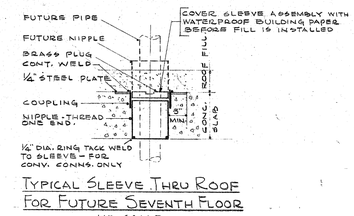


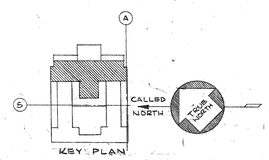












FOR REFERENCE ONLY

B5 3411LT
10-10-57

SEVENTH FLOOR PLAN - EAST

COURT HOUSE AND CITY HALL
BLOCK 85, CITY OF MADISON
DANE COUNTY, WISCONSIN

HOLABIRD & ROOT & BURGEE
ARCHITECT - ENGINEER, CHICAGO, ILL.
LAW LAW POTTER & NYSTROM
ASSOCIATE ARCHITECTS, MADISON, WIS.

REVISIONS	DATE
COMMISSION 8822	
SCALE As Noted	
DATE DEC. 22-1954	
DWG. NO.	

M15