

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER
3200 VINE STREET
CINCINNATI, OHIO 45220

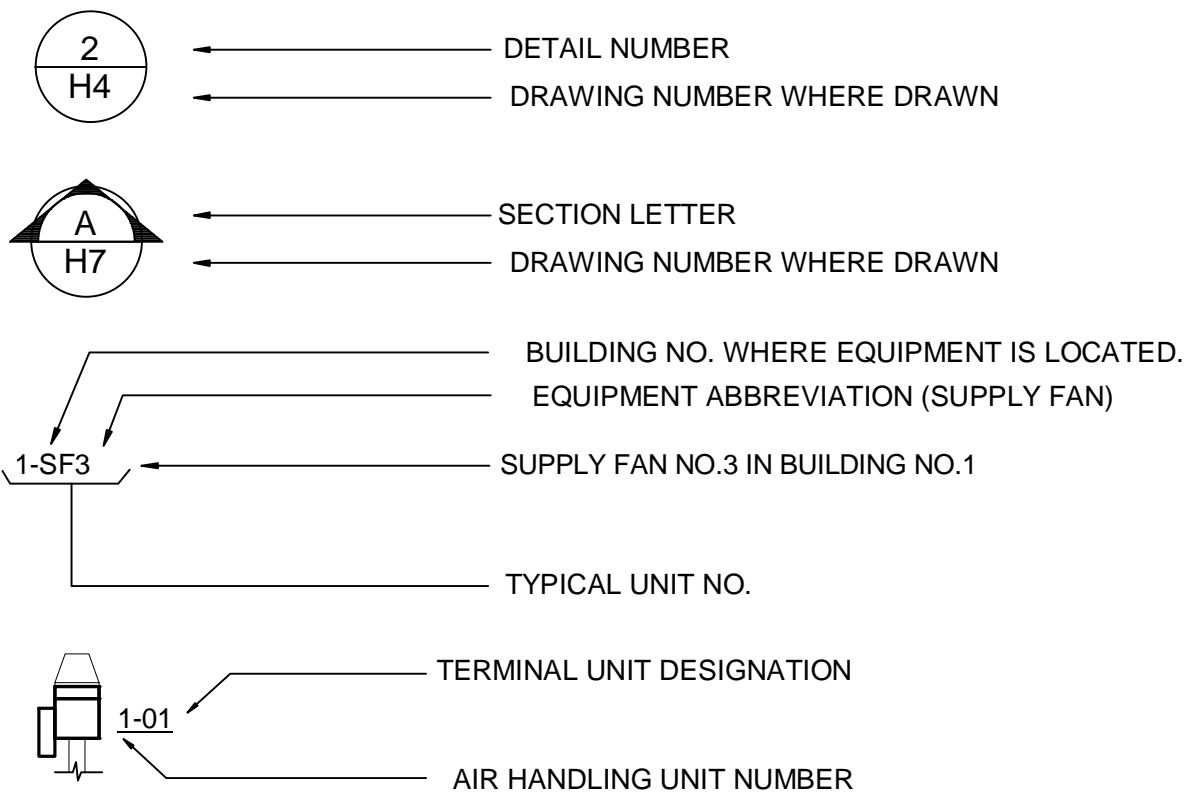


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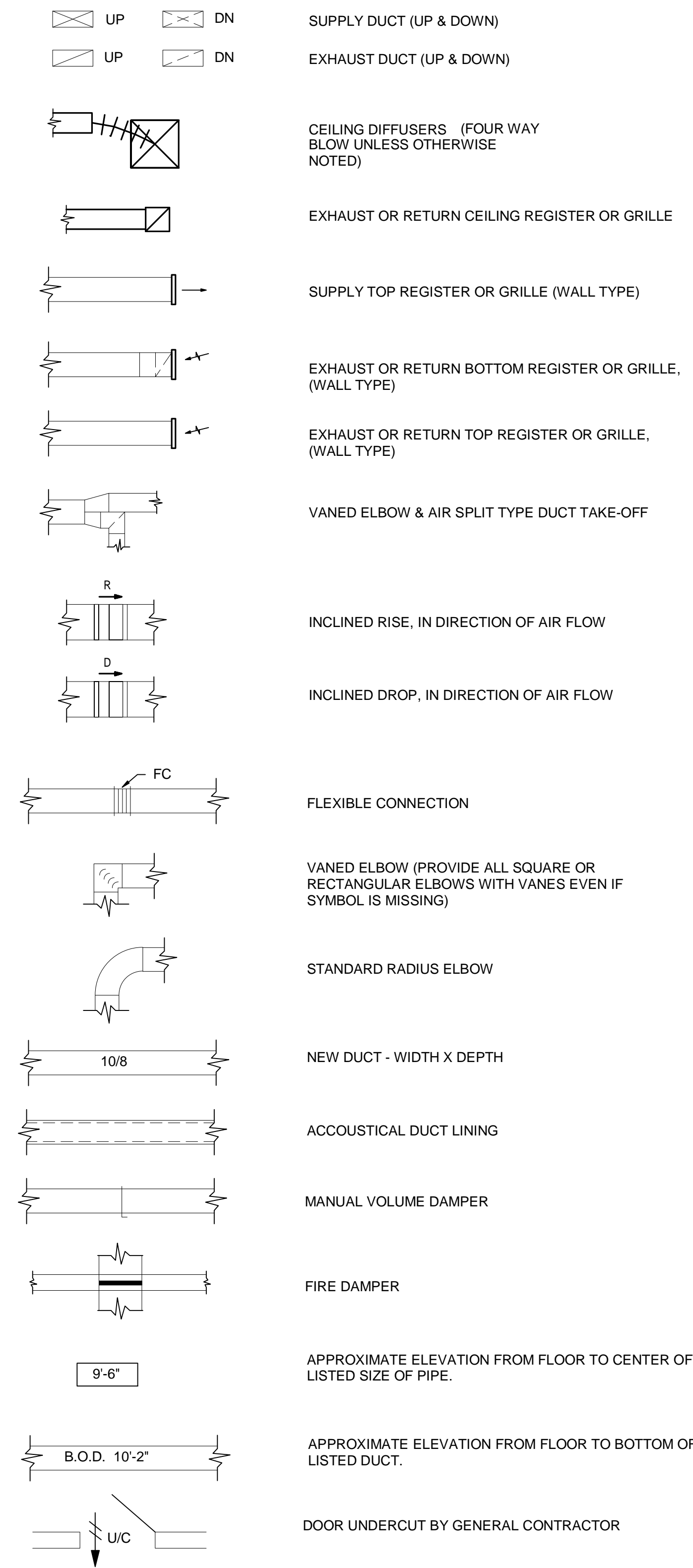
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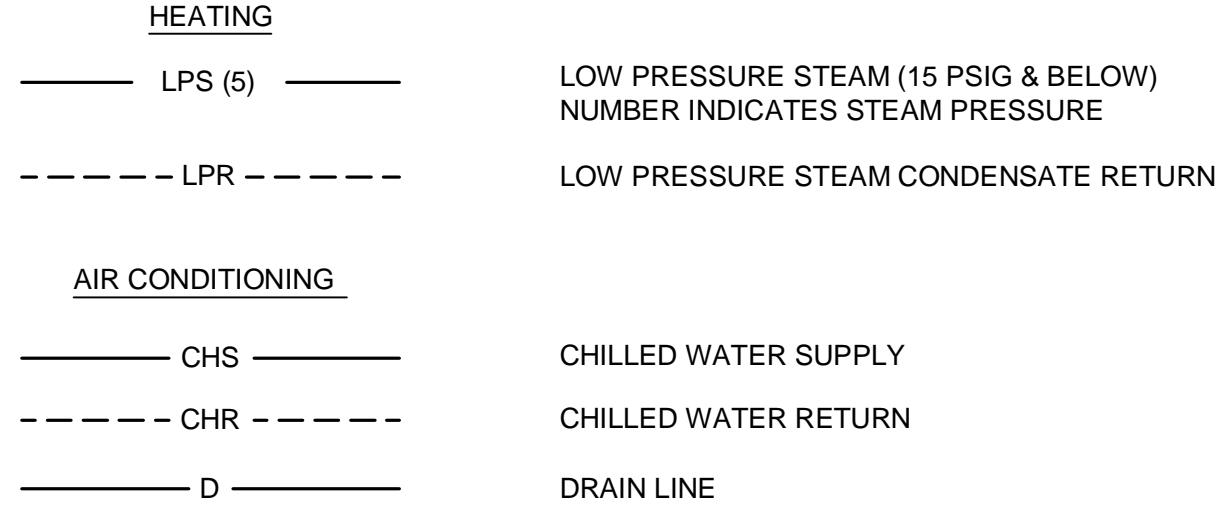
DRAWING SYMBOLS



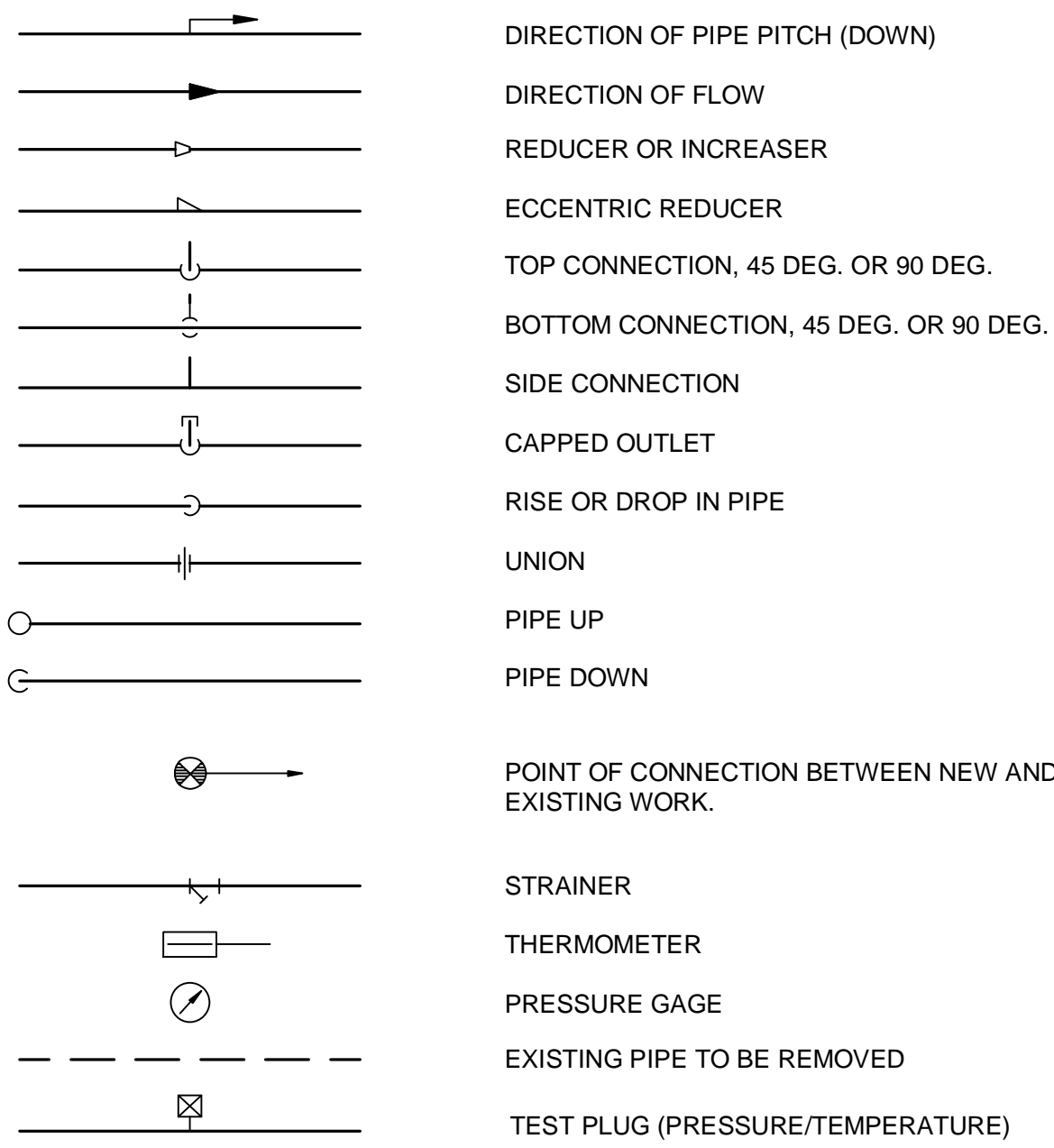
DUCTWORK SYMBOLS



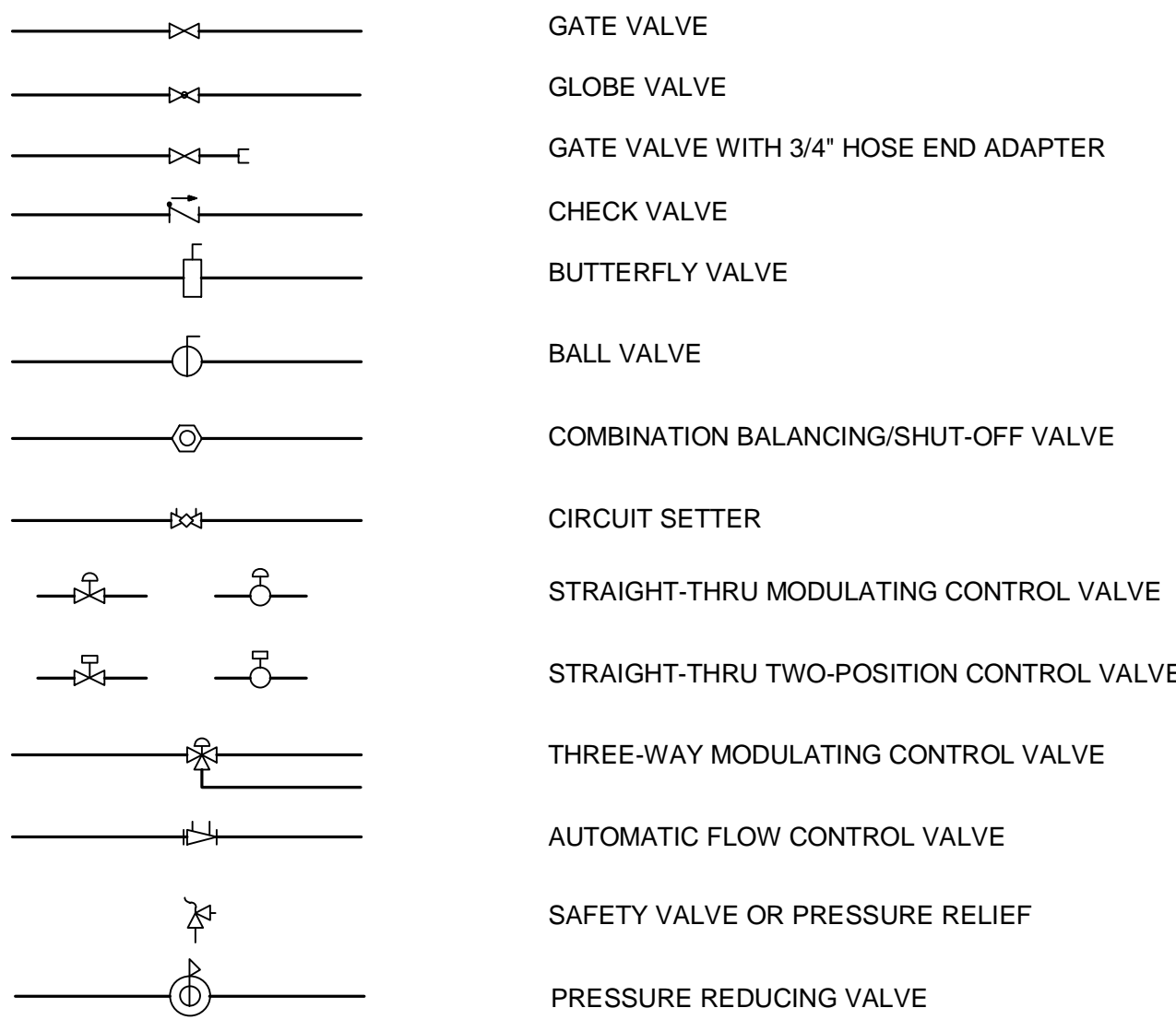
PIPING SYMBOLS



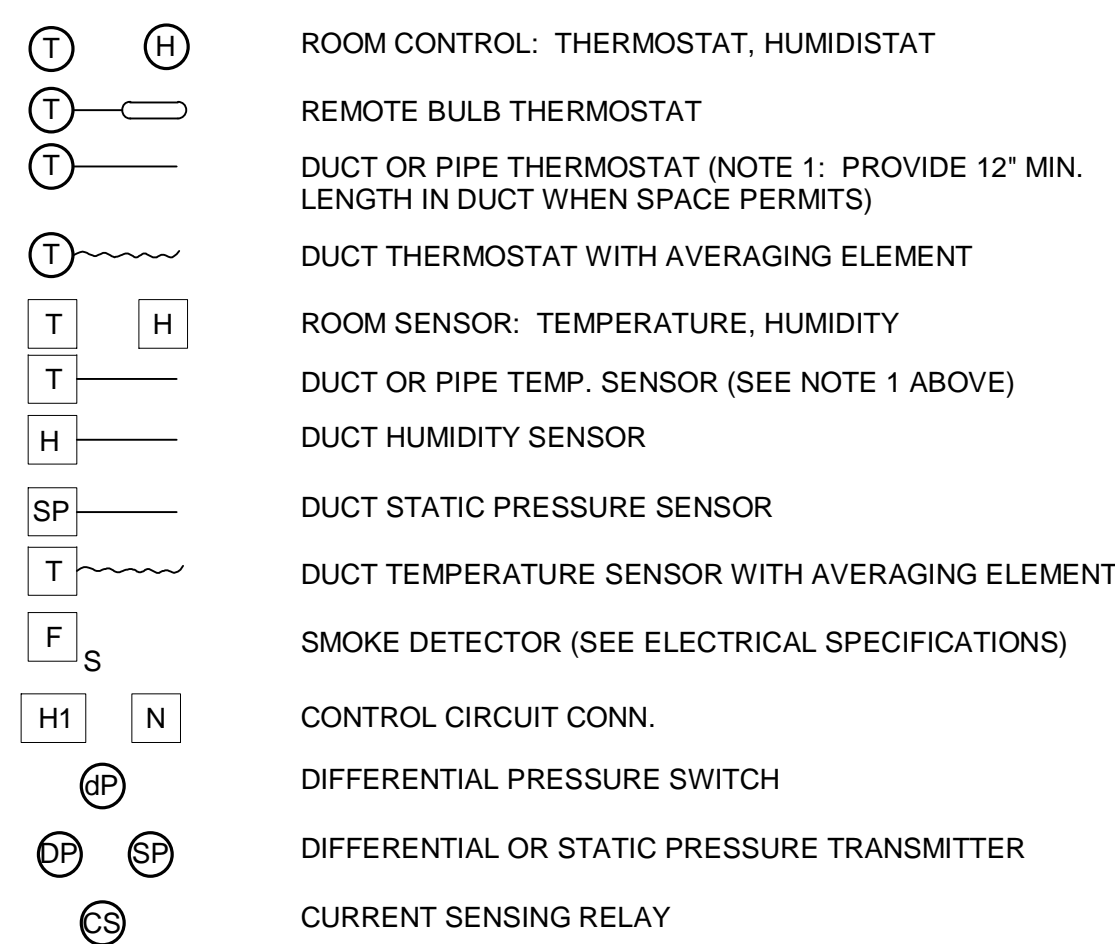
GENERAL



VALVES



CONTROLS



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROLS
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CONVERTOR
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CLEAN OUT
CONV	CONVECTOR
D	AUTOMATIC CONTROL DAMPER
Db	DRY BULB TEMPERATURE, DEG. F
dBA	DECIBELS
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DI	DIGITAL INPUT
DIA	DIAMETER
DO	DIGITAL OUTPUT
ECC	ENGINEERING CONTROL CENTER
EMD	END OF MAIN DRIP
ENT	ENTERING
EX.	EXISTING
F	FAHRENHEIT
FLR.	FLOOR
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HD	HEAD
HP	HORSEPOWER
IN	INCHES
IN WC	INCHES WATER COLUMN
IN WG	INCHES WATER GAUGE
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LPR	LOW PRESSURE STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY (15 PSIG & BELOW)
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVG	LEAVING
MAX	MAXIMUM
MB	MIXING BOX
MBH	1000 BTUH
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
NC	NOISE CRITERIA
NOM	NOMINAL
O.A.	OUTSIDE AIR
PD	PRESSURE DROP (FEET OF WATER)
POD	POWER OPERATED, OPPOSED BLADE DAMPER
PPD	POWER OPERATED, PARALLEL BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
Rh	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SDR	SMOKE DAMPER (RETURN)
SDS	SMOKE DAMPER (SUPPLY)
S.P.	STATIC PRESSURE (INCHES OF WATER)
SPS	STATIC PRESSURE SENSOR
V	VALVE
VAV	VARIABLE AIR VOLUME
Wb	WET BULB TEMPERATURE, DEG. F
W.B.E.	WHITE BAKED ENAMEL

GENERAL NOTES:

- THESE NOTES APPLY EQUALLY TO THE FULL SET OF DOCUMENTS.
- INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING. REFER TO DRAWINGS AND GENERAL REQUIREMENTS SECTION 01 00 00.
- INSULATE DUCTWORK AND PIPING WHERE EXISTING INSULATION HAS BEEN DAMAGED AND/OR REMOVED IN THE PERFORMANCE OF WORK IN THIS PROJECT.
- THE CONTRACTORS SHALL REFER TO ALL SPECIFICATION SECTIONS AND THESE DRAWINGS FOR DETAILS OF BUILDING CONSTRUCTION TO ENSURE SPACE AND SATISFACTORY AIR FLOW REQUIREMENTS FOR THEIR WORK. THE VARIOUS DRAWINGS COMPRISING THE SET ARE INTERDEPENDENT AND MUST BE USED JOINTLY AT ALL TIMES. EACH CONTRACTOR SHALL REFER TO THE GENERAL REQUIREMENTS OF THE CONTRACT. THE NOTES AND SYMBOLS INDICATED ON THE DRAWINGS ARE FOR THE GUIDANCE OF ALL TRADES INVOLVED IN THE PROJECT AND MUST BE FOLLOWED TO EXECUTE THE WORK AS INTENDED. IF DISCREPANCIES OCCUR, CONTACT THE PROJECT ENGINEER (COTR) THRU THE CONTRACTING OFFICER FOR CLARIFICATION BEFORE PROCEEDING.
- EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHERS. HE SHALL KEEP HIMSELF INFORMED OF THE PROGRESS AND DETAIL DEVELOPMENT OF THE WORK OF OTHERS AND SHALL BE RESPONSIBLE FOR COORDINATING AND EXPEDITING HIS WORK WITH OTHERS SO THAT THE PROGRESS OF THE TOTAL WORK SHALL BE KEPT ON SCHEDULE.
- ALL WORK SHALL BE PERFORMED IN COMPLETE COMPLIANCE WITH ALL GOVERNING CODES AND STANDARDS.
- EXISTING CONDITIONS SHOWN HAVE BEEN BASED UPON VISUAL OBSERVATION AND/OR AVAILABLE DRAWING INFORMATION, AND MAY BE AT VARIANCE WITH ACTUAL WORK IN PLACE. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND FIELD VERIFY ALL CONDITIONS AFFECTING THE EXECUTION OF THE WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE WORK SHOWN ON THE CONTRACT DOCUMENTS WHICH MAY IMPACT THE PROGRESS OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- EACH CONTRACTOR AND/OR TRADE, FITTING OR PLACING HIS WORK INTO OR ON THE WORK OF OTHERS DOES SO WITH THE UNDERSTANDING THAT THE INSTALLATION OF HIS WORK CONSTITUTES HIS ACCEPTANCE OF THE SUITABILITY OF THE WORK IN PLACE. IF THE WORK OF OTHERS IS NOT ACCEPTABLE, HE SHALL NOTIFY THE VA PROJECT ENGINEER AND SUCH WORK SHALL BE CORRECTED. ANY NEW WORK INSTALLED IN UNSUITABLE EXISTING WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR TRADE INSTALLING THE NEW WORK. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR CORRECTING WORK INSTALLED IN UNSUITABLE EXISTING CONDITIONS WILL BE CONSIDERED.
- IF, IN THE PERFORMANCE OF THIS WORK, MATERIALS ARE OBSERVED WHICH ARE SUSPECTED TO CONTAIN ASBESTOS, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE VA PROJECT ENGINEER. WORK THAT WOULD EXPOSE WORKERS TO THE INHALATION OF ASBESTOS PARTICLES SHALL BE TERMINATED. WORK MAY BE RESUMED ONLY AFTER A DETERMINATION HAS BEEN MADE AND UNSAFE MATERIALS HAVE BEEN REMOVED OR ENCAPSULATED AND THE AREA DECLARED SAFE.
- ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED AND/OR FIRE-STOPPED AS REQUIRED BY THE APPLICABLE FIRE-RATINGS. COORDINATE WITH ALL TRADES TO ENSURE FIRE-RATED PENETRATION REQUIREMENTS AND DETAILS ARE MET.
- ANNUAL SPACE OF ALL PIPE, CONDUIT, DUCT & OTHER SIMILAR PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED. IN ADDITION, PENETRATIONS THROUGH 0-HOUR RATED WALLS & FLOORS SHALL BE FIRESTOPPED TO RETARD PASSAGE OF FIRE & SMOKE.
- THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
- ACCESS PANELS IN NON ACCESSIBLE SUSPENDED CEILINGS SHALL BE PROVIDED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, FLOW METERS, CONTROLS, ETC.
- FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD DETAILS AND PIPING SCHEMATICS.
- DIFFUSER SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES. REGISTER AND GRILLE SIZES SHOWN ARE FACE SIZES.
- WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
- WHERE DUCTS OR PIPES ARE REMOVED THRU WALL/FLOOR/ROOF THAT IS TO REMAIN, PATCH WALL/FLOOR/ROOF OPENING TO MATCH EXISTING WHERE OPENING IS NOT RE-USED.
- ALL CUTTING AND PATCHING REQUIRED FOR THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT. REFINISH ANY SURFACE DISTURBED UNDER THIS WORK TO MATCH EXISTING.
- IN GENERAL, KEEP DUCT AND PIPING MAINS NEXT TO UNDERSIDE OF STRUCTURE.
- ANY REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE VA. ITEMS NOT DESIRED BY THE VA SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
- THE CONTRACT DRAWINGS ARE NOT INTENDED TO SHOW EVERY VERTICAL OR HORIZONTAL OFFSET WHICH MAY BE NECESSARY TO COMPLETE THE SYSTEMS. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED.
- HEPA FILTERED EXHAUST IS REQUIRED TO MAINTAIN A MINIMUM OF 0.01" W.G. NEGATIVE PRESSURE IN CONSTRUCTION AREAS. COORDINATE WITH GENERAL CONTRACTOR AND THE PROJECT ENGINEER (COTR).
- TERMINATE PIPING AND DUCTWORK BELOW FLOORS, ABOVE CEILINGS, ETC., IN CONCEALED SPACES. ALL CUTTING AND PATCHING SHALL MATCH EXISTING FINISHES.
- WHERE CONTROL DEVICES ARE REMOVED, PNEUMATIC LINES SHALL BE REMOVED BACK TO MAIN AND CAPPED; AND CONTROL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
- ALL EXISTING DUCTWORK, PIPING, EQUIPMENT, CONTROLS, ETC. SHOWN DASHED ON THE REMOVAL PLANS SHALL BE REMOVED. THE MAJORITY OF WORK TO BE REMOVED IS SHOWN. REMOVE ALL INCIDENTAL AND/OR ABANDONED EQUIPMENT, DUCTWORK, PIPING, ETC. THAT MAY NOT BE SHOWN BUT IS ASSOCIATED WITH THE REMOVAL WORK.
- WHERE EXISTING HVAC UTILITIES IN SERVICE WILL BE DISRUPTED DURING THE CONSTRUCTION OF THIS PROJECT, THIS WORK SHALL BE PERFORMED ON WEEKENDS OR WEEK NIGHTS, IF REQUIRED BY THE VA PROJECT ENGINEER. DOWNTIME SHALL BE KEPT TO A MINIMUM, AND SHALL BE COORDINATED AND SCHEDULED WELL IN ADVANCE WITH THE VA PROJECT ENGINEER.
- RUNOUT PIPING TO FAN COIL UNITS SHALL BE 0.75" SIZE UNLESS OTHERWISE NOTED ON PLANS OR IN SCHEDULES.
- APPROXIMATE ELEVATIONS NOTED ARE TO THE CENTER OF THE PIPE AND BOTTOM OF DUCT.
- CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE, EXAMINE AND ACCEPT EXISTING CONDITIONS PRIOR TO BIDDING. SITE VISITS SHALL BE COORDINATED WITH THE PROJECT ENGINEER.
- CONTRACTOR IS RESPONSIBLE TO REPAIR AND/OR REFINISH, TO MATCH ADJACENT EXISTING SURFACES, ANY EXISTING MATERIALS TO REMAIN THAT ARE DAMAGED DURING THE COURSE OF DEMOLITION OR NEW WORK.
- WHERE REMOVAL OF EXISTING WORK IS REQUIRED FOR INSTALLATION OF NEW WORK, CONTRACTOR SHALL REPAIR EXISTING CONSTRUCTION TO REMAIN OR PROVIDE NEW CONSTRUCTION TO MATCH EXISTING ADJACENT SURFACES TO REMAIN.
- ALL EXISTING WORK DISTURBED DURING PERFORMANCE OF THIS CONTRACT SHALL RECEIVE NEW FINISHES UNLESS SPECIFICALLY NOTED OTHERWISE. IF NO FINISH IS INDICATED AT A PARTICULAR SURFACE, CONTRACTOR SHALL MATCH EXISTING AND/OR PROVIDE FINISH AS INDICATED AT SIMILAR CONDITIONS.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE PROJECT ENGINEER OF ANY WORK WHICH MIGHT REQUIRE INTERRUPTION OF UTILITY SERVICES, CAUSE NOISE, OR CREATE VIBRATION. PRIOR TO THE COMMENCEMENT OF THIS WORK, THE CONTRACTOR'S WORK AND SCHEDULE SHALL BE APPROVED AND COORDINATED BEFORE HAND WITH THE PROJECT ENGINEER. SEE GENERAL CONDITIONS FOR FURTHER DETAIL.
- DO NOT PAINT ANY CAULKING OR SEALANTS WHICH ARE SUBJECT TO MOVEMENT - CONTROL JOINTS SHALL BE CAULKED AFTER PAINT AND SPECIAL COATING APPLICATIONS. PROVIDE CAULKING OR SEALANTS IN COLORS WHICH MATCH ADJACENT FINISHED SURFACE COLORS.
- THE CONTRACTOR, IN CONJUNCTION WITH HIS WORK, SHALL BE RESPONSIBLE TO PATCH AND REPAIR ALL EXISTING SUBSTRATES AND FINISHES INCLUDING BUT NOT LIMITED TO EXISTING WALLS, FLOORS, BASES, WAINSCOTS, CEILINGS, WINDOWS, WINDOW TRIM, WOOD WORK, DOORS, FRAMES, ETC. (UNLESS INDICATED OTHERWISE) AND PREPARE AREAS AS REQUIRED FOR NEW CONSTRUCTION FINISHES. WHERE WORK IS PERFORMED AND NO FINISH IS SPECIFICALLY INDICATED, THE CONTRACTOR IS RESPONSIBLE TO PATCH, REPAIR, AND PAINT TO MATCH ALL EXISTING ADJACENT MATERIALS, FINISH AND PAINT ALL WORK TO PROVIDE A COMPLETE, FINISHED WORKMANLIKE JOB, ALL SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER.
- PATCH ALL EXISTING WALLS AND CEILINGS THAT ARE TO REMAIN (EXCEPT WHERE NOTED) AS REQUIRED TO PROVIDE A SOUND BASE FOR NEW FINISHES SUCH AS PAINT, ETC. ALL PATCHING SHALL MATCH EXISTING ADJACENT SURROUNDING AREAS AND SURFACES.
- IN ADDITION TO SPECIFIC REQUIREMENTS, THE GENERAL INTENT OF PAINTING AND TRANSPARENT FINISHES IS AS FOLLOWS: WHERE SURFACES ARE INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED, ALL OPENINGS, NEW AND EXISTING, INCLUDING WINDOWS, DOORS, FRAMES, TRIM, BASE, ETC. SHALL BE FINISHED OR REFINISHED IN CONJUNCTION WITH SURROUNDING WORK. WHERE SURFACES ARE NOT INDICATED TO BE PAINTED OR TRANSPARENT FINISH APPLIED IN THIS CONTRACT, ITEMS OF NEW WORK OR REPAIR WORK ONLY SUCH AS WALLS, CEILING, DOORS, FLOORS, WINDOWS, ETC. SHALL BE FINISHED TO MATCH EXISTING ADJACENT FINISHES. EXISTING ADJACENT FINISH SHALL REMAIN. THE CONTRACTOR SHALL VERIFY IN THE FIELD ALL FINISHES PRIOR TO EXECUTION OF THE WORK.
- WHERE NEW CONSTRUCTION REQUIRES CORE DRILLING THROUGH EXISTING STRUCTURAL CONCRETE FLOOR SLABS, THE CONTRACTOR SHALL COORDINATE HIS DRILLING WORK TO AVOID DRILLING INTO A STRUCTURAL ELEMENT, INCLUDING BEAMS, COLUMNS, ETC.
- ALL EXISTING OPENINGS IN EXISTING FLOOR WHICH ARE NOT BEING USED FOR NEW VERTICAL PIPING, DUCTS, CONDUIT, ETC. SHALL BE CLOSED WITH CONCRETE TO FULL DEPTH OF EXISTING SLAB.
- COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

CONSULTANTS:

ARCHITECT/ENGINEERS:

Heapy Engineering
MEP Design Technology Planning Commissioning Energy
Nationally Recognized Leader in Sustainability
1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com
HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

LEGEND AND GENERAL NOTES

REPLACE INDUCTION UNITS

Cincinnati, Ohio

Project No. 539-15-201

Building Number 1

Drawing Number

M001

Dwg. 2 of 18

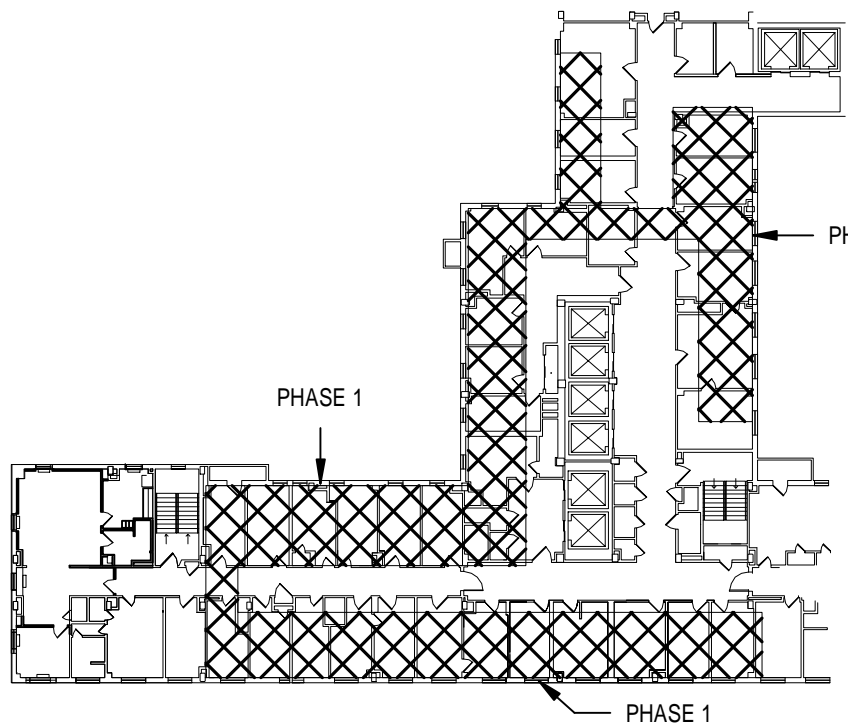
Office of Construction and Facilities Management

Department of Veterans Affairs

GENERAL NOTES

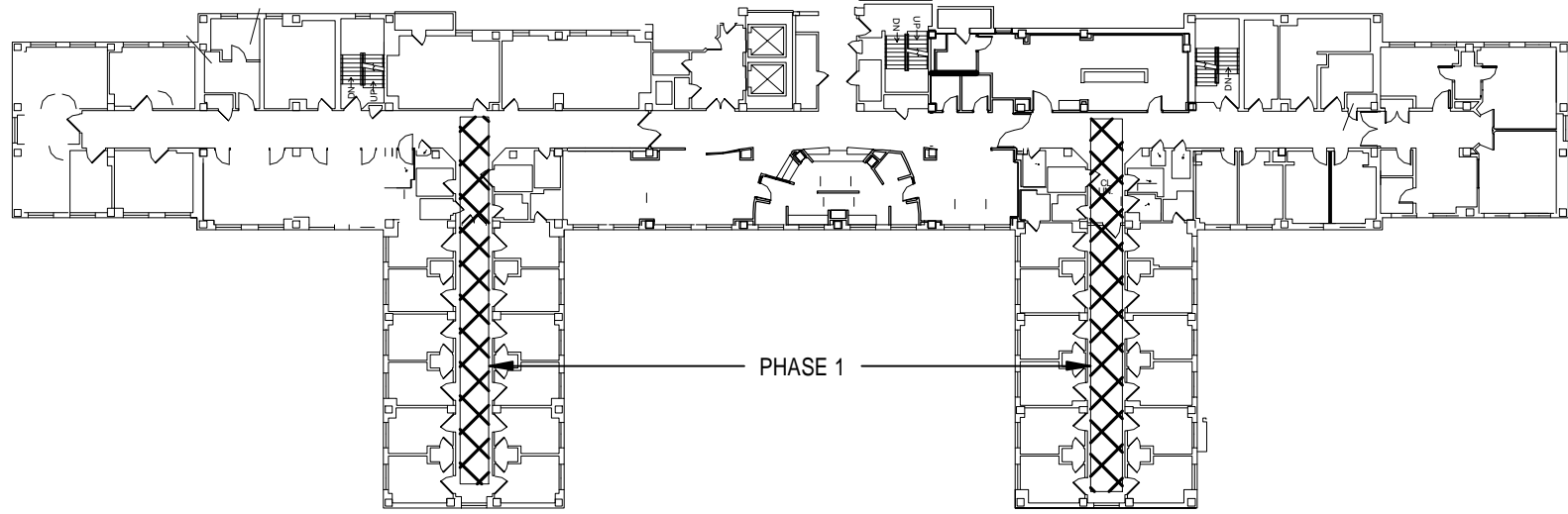
- A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
- B PROVIDE TEMPORARY PARTITION WITHIN AFFECTED ROOMS, AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC. TEMPORARY BARRIERS AND CONSTRUCTION AREAS SHALL MEET ALL REQUIREMENTS FOR VA INFECTION CONTROL CLASS III CONSTRUCTION PROJECTS.
- C PROVIDE AND MAINTAIN NEGATIVE AIR PRESSURE AT ALL CONSTRUCTION, WITHIN TEMPORARY PARTITIONS.
- D COORDINATE PHASE COMPLETION AND START-UP WITH REQUIREMENTS AS SET FORTH BY THE PROJECT ENGINEER TO MAINTAIN DAILY OPERATIONS TO NEAR AS NORMAL AS POSSIBLE.
- E COORDINATE LOCATION OF JOB DUMPSTER WITH THE PROJECT ENGINEER SO AS TO DISRUPT DAILY OPERATIONS AS LITTLE AS POSSIBLE.
- F EXISTING HVAC, SPRINKLERS, WATER SUPPLY, ELECTRICAL, VOICE DATA, FIRE ALARM, ETC. SHALL BE MAINTAINED THROUGHOUT AS REQUIRED DURING EACH PHASE OF CONSTRUCTION. SUPPORT AND PROTECT ALL LINES DURING EACH PHASE OF CONSTRUCTION.
- G EXISTING POWER MUST BE MAINTAINED THROUGHOUT AS REQUIRED DURING EACH PHASE OF CONSTRUCTION. COORDINATE PHASING WITH ELECTRICAL CONTRACTOR. COORDINATE POWER TURNOVER WITH REQUIREMENTS AS DICTATED BY THE PROJECT ENGINEER. SEE ELECTRICAL DRAWINGS.
- H COORDINATE SEQUENCE CONSTRUCTION WITH THE PROJECT ENGINEER SO THAT ONLY ONE SIDE OF ANY CORRIDOR IN USE IS OBSTRUCTED AT ANY ONE TIME.
- I EACH PHASE SHALL TAKE NO LONGER THAN 1 WEEK TO COMPLETE. PHASES SHALL TAKE PLACE IN CONSECUTIVE WEEKS.
- J COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.
- K ALL CONSTRUCTION WORK IN BUILDING 1 OCCUPIED SPACES SHALL TAKE PLACE BETWEEN NOVEMBER 17 AND MARCH 20.
- L CHILLED WATER LOOP SERVING 9TH FLOOR UNITS AND CHILLED WATER LOOP SERVING 4TH FLOOR NORTH UNITS SHALL BE DRAINED AT THE START OF PHASE 2 AND REFILLED UPON COMPLETION OF PHASE 7.

PHASE 1



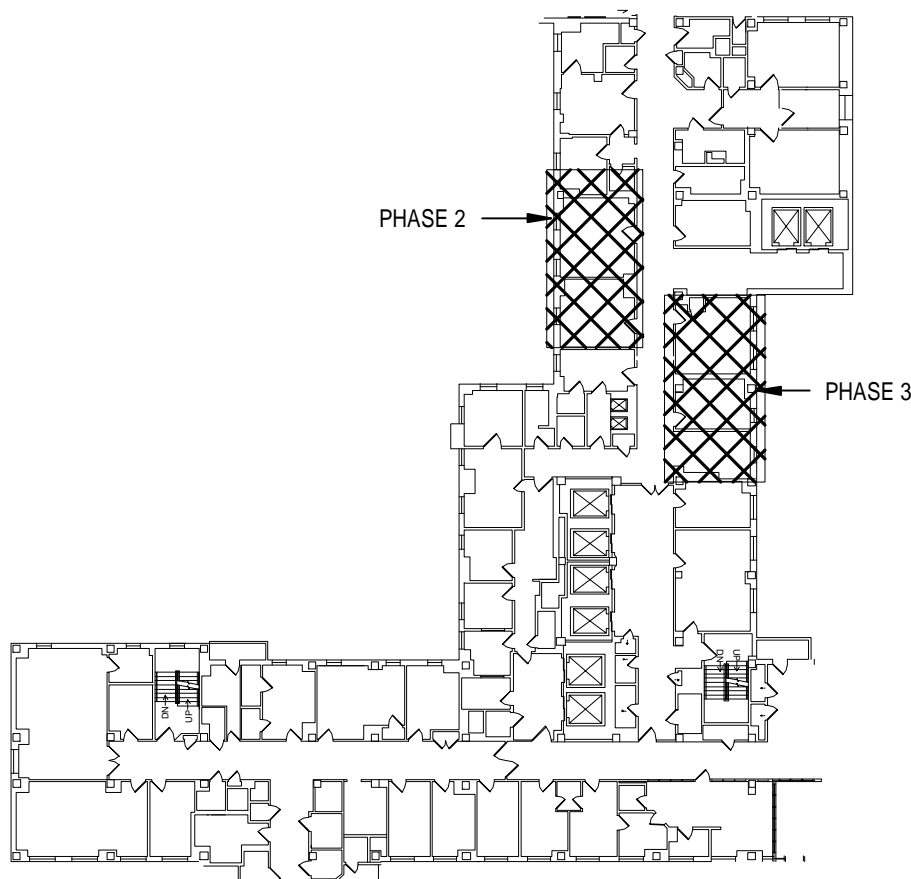
8TH FLOOR PLAN

PHASE 1

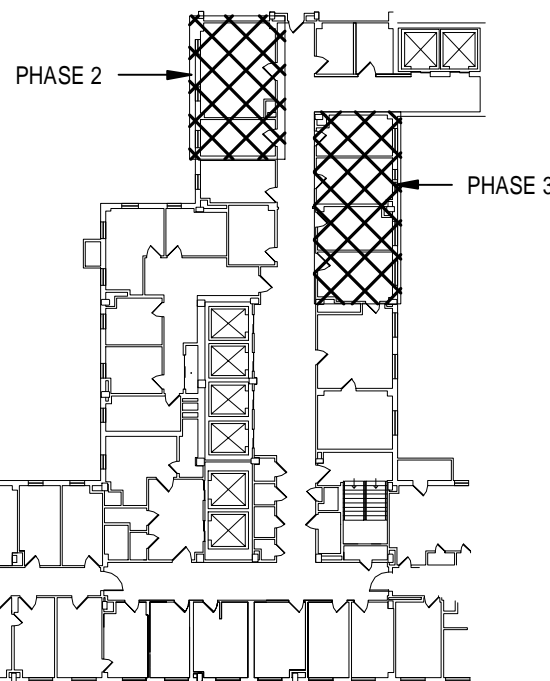


9TH FLOOR PLAN

PHASE 2/ PHASE 3

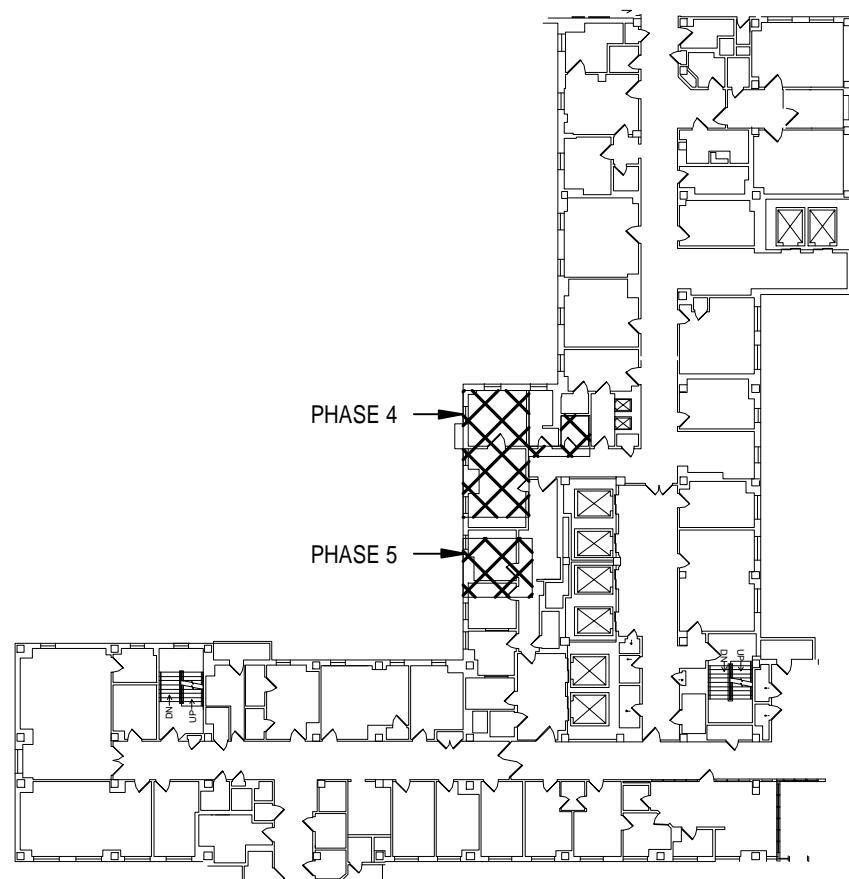


8TH FLOOR PLAN

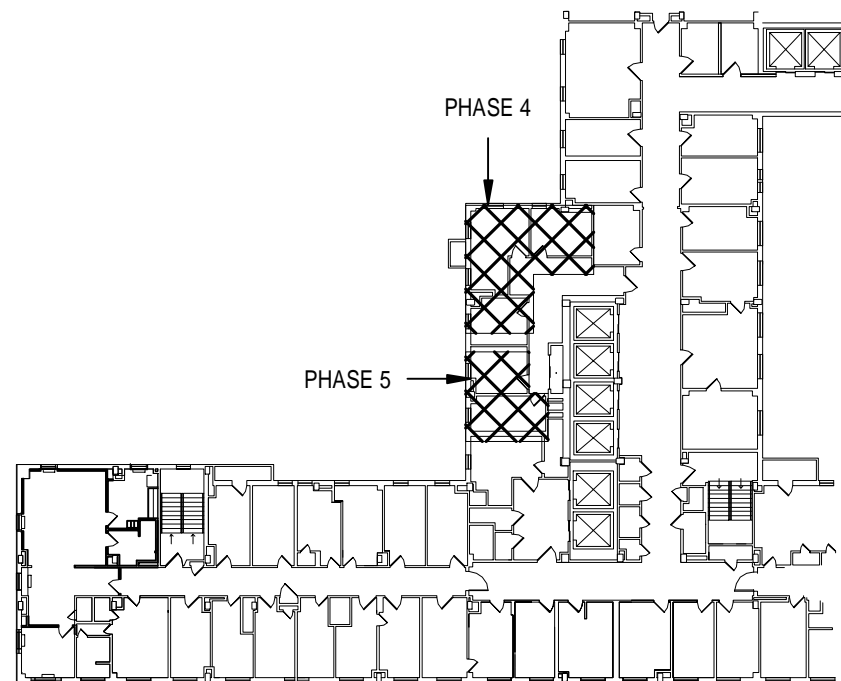


9TH FLOOR PLAN

PHASE 4/ PHASE 5

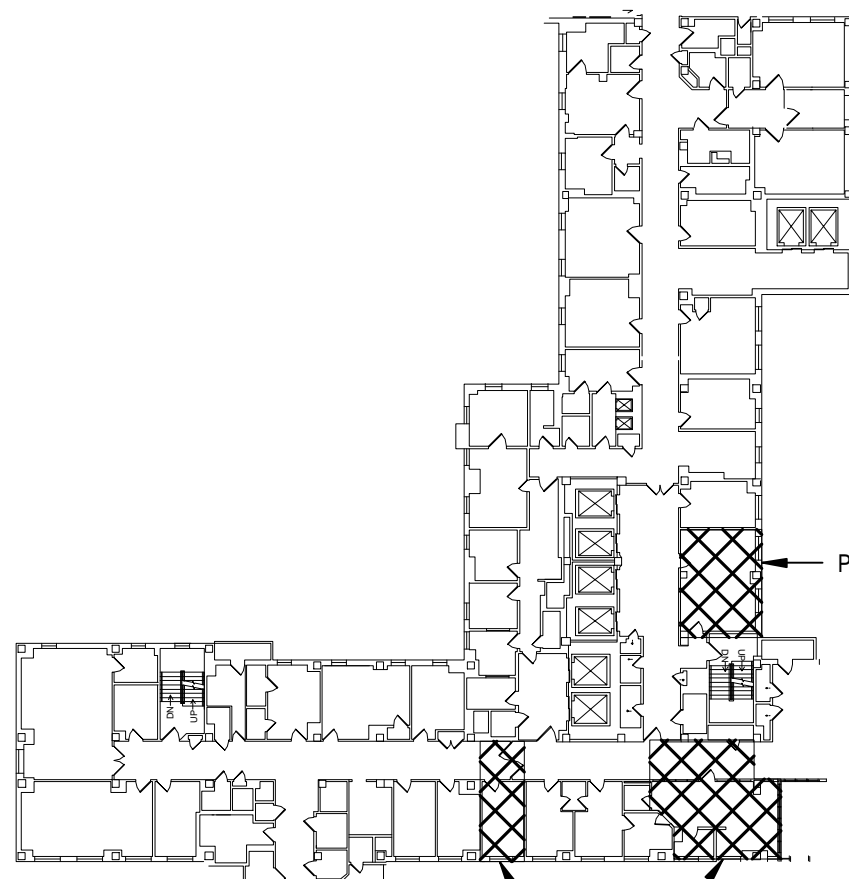


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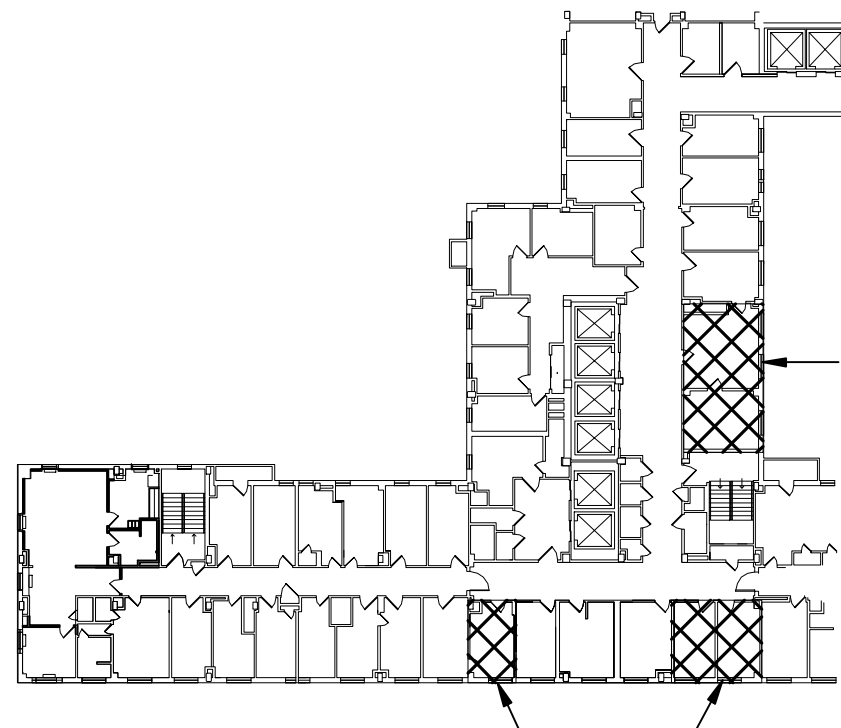


9TH FLOOR PLAN

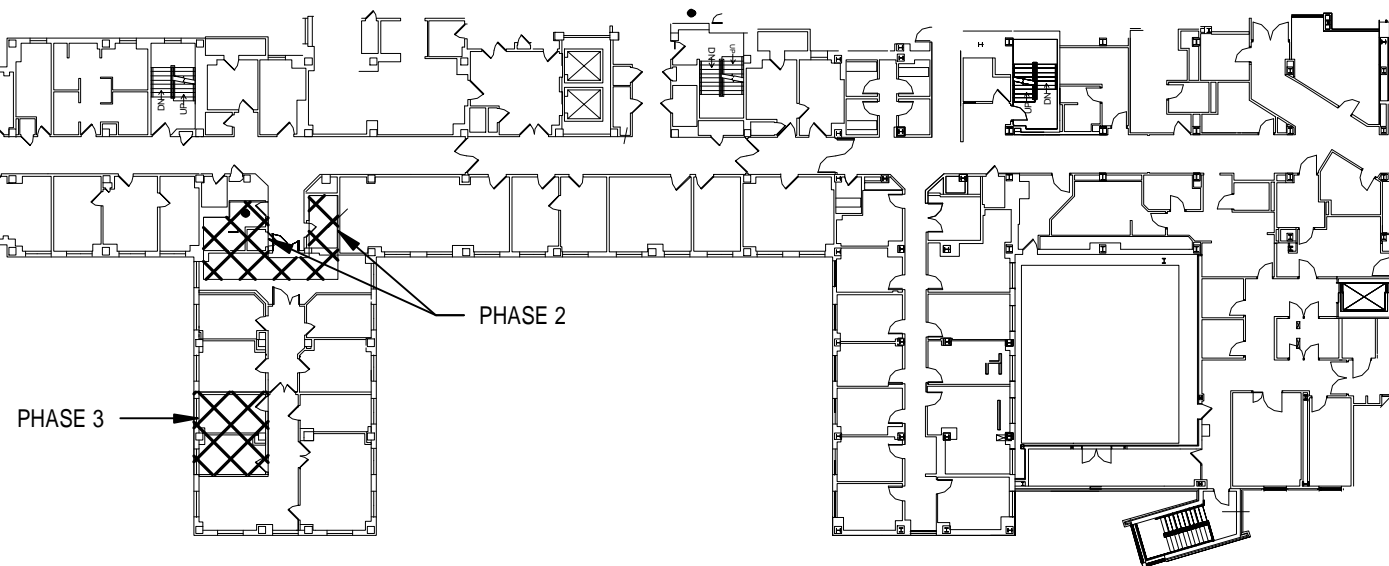
PHASE 6/ PHASE 7



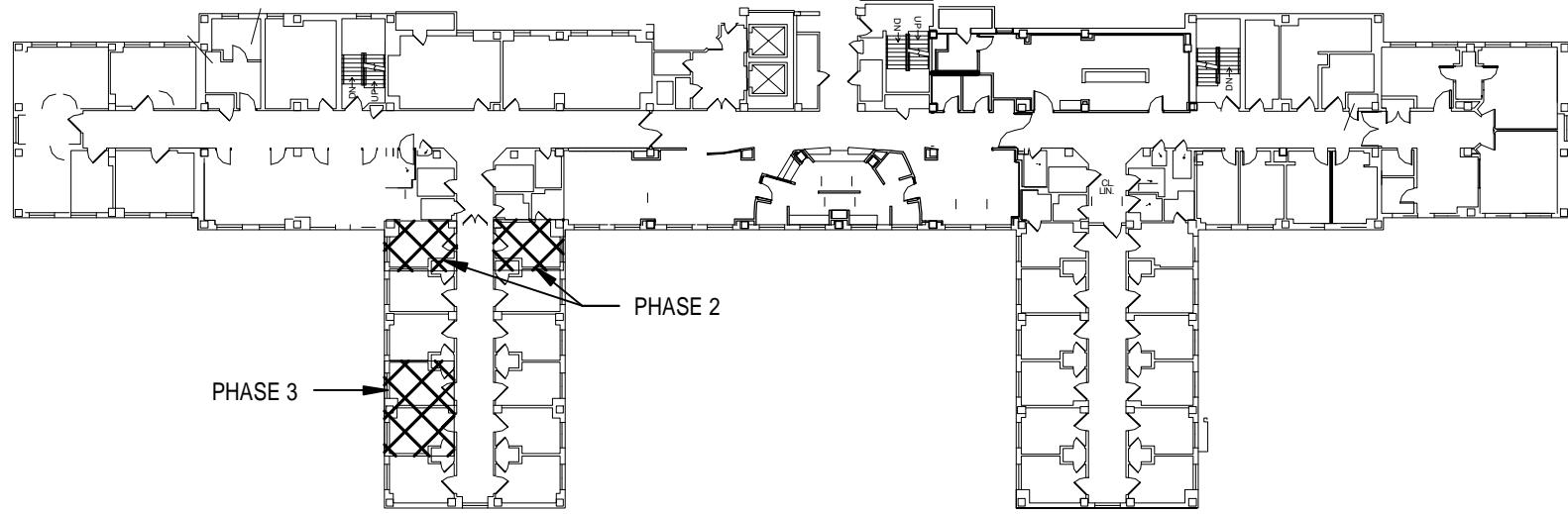
8TH FLOOR PLAN



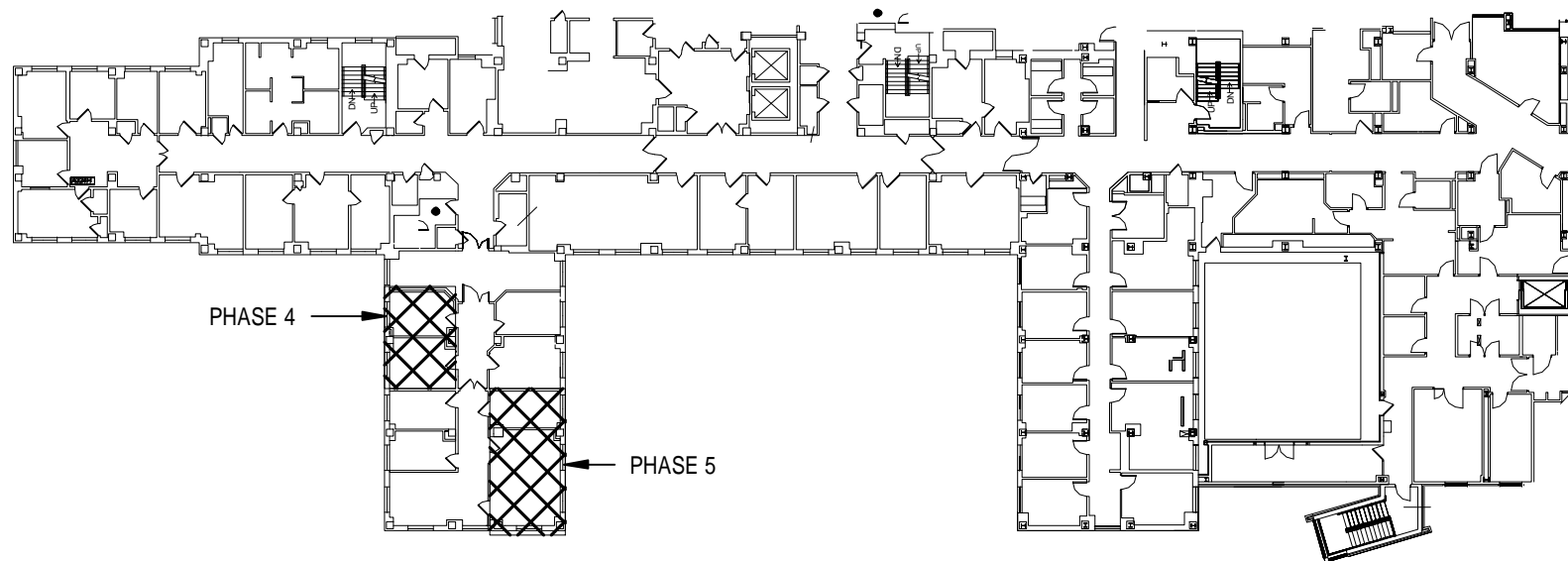
9TH FLOOR PLAN



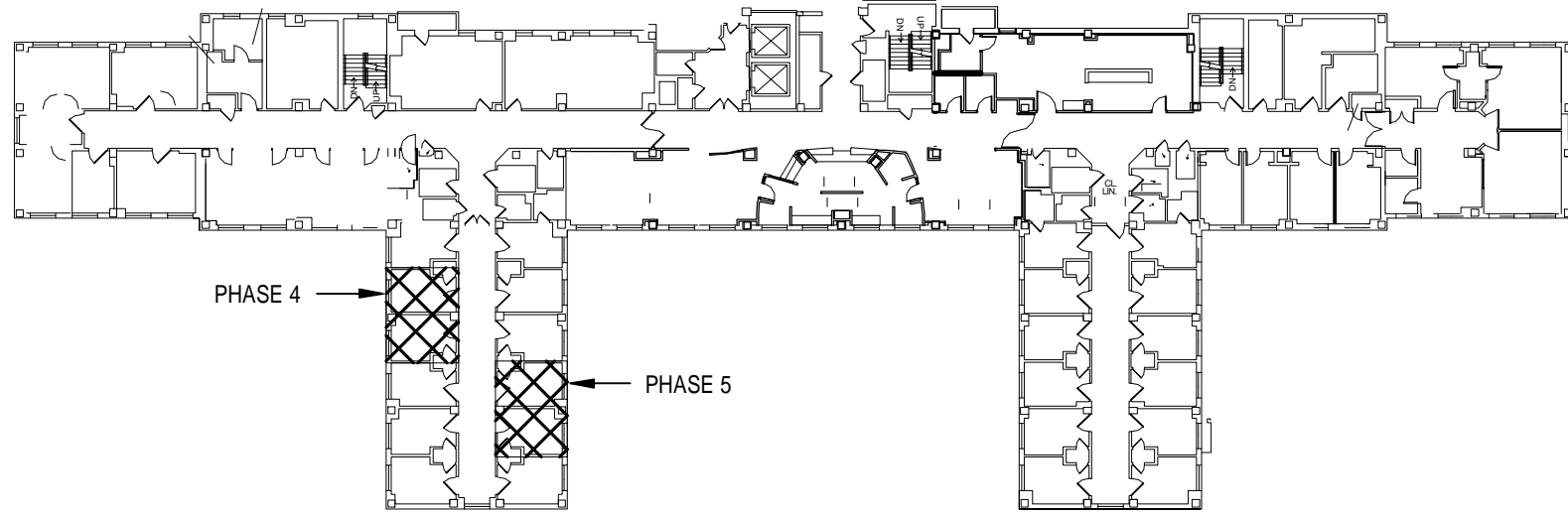
3RD FLOOR PLAN



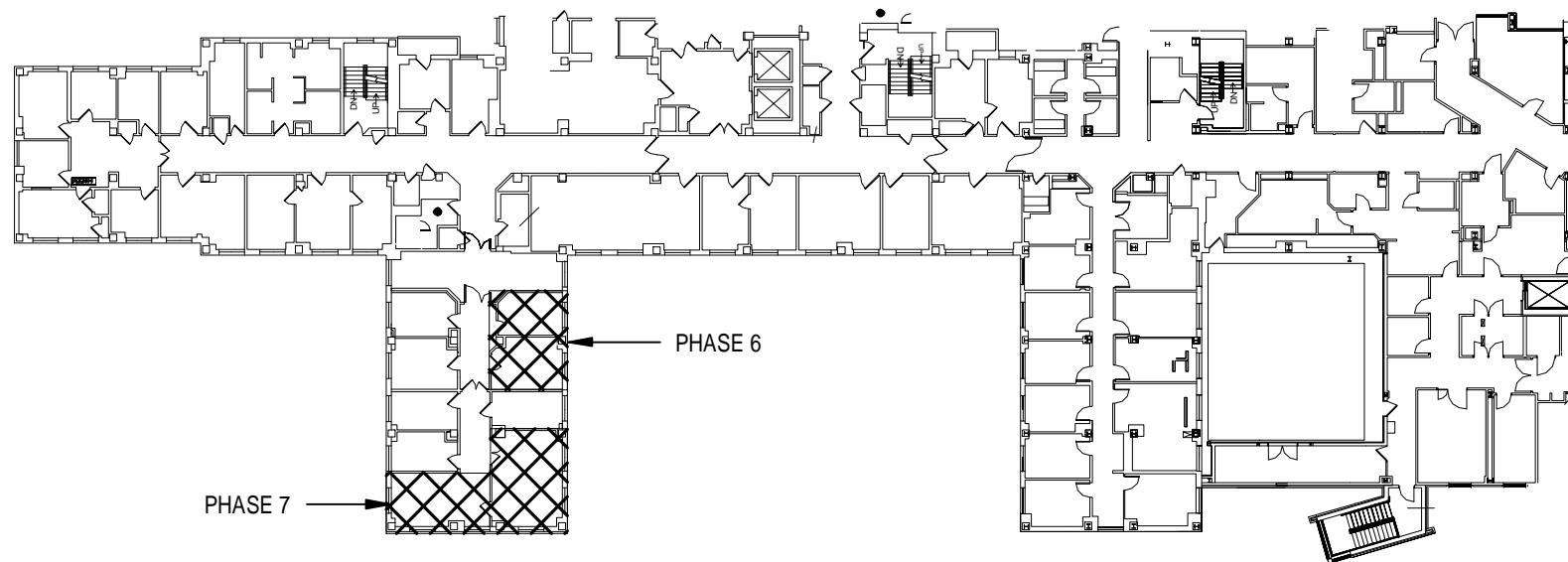
4TH FLOOR PLAN



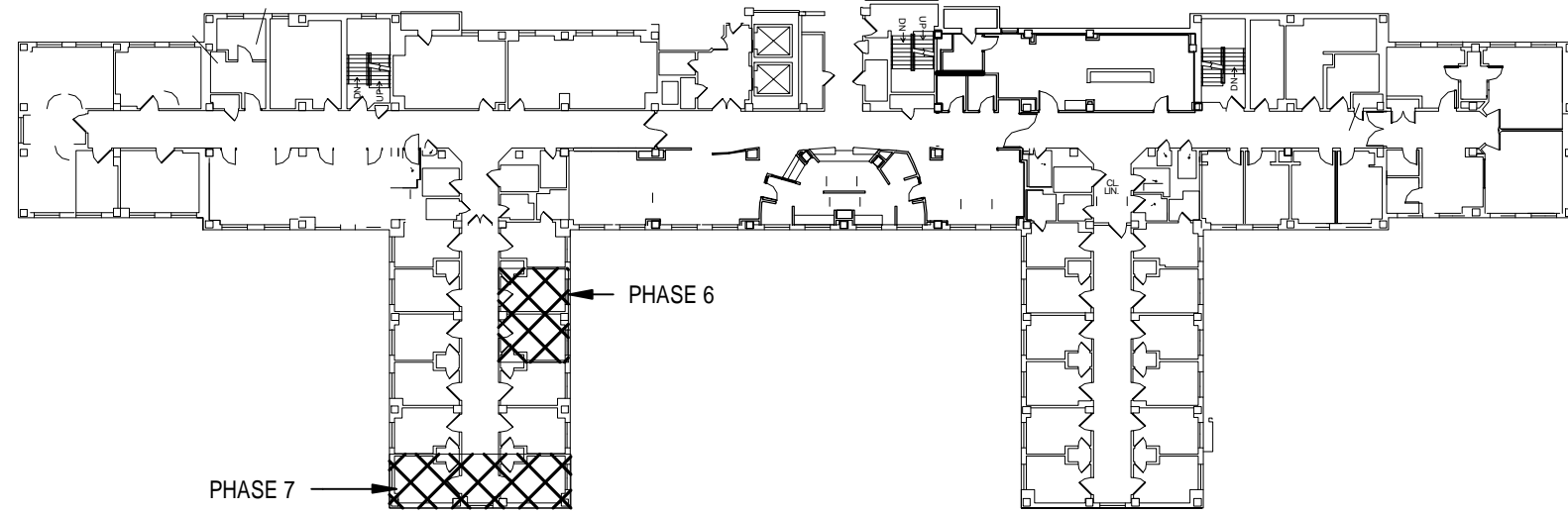
3RD FLOOR PLAN



4TH FLOOR PLAN



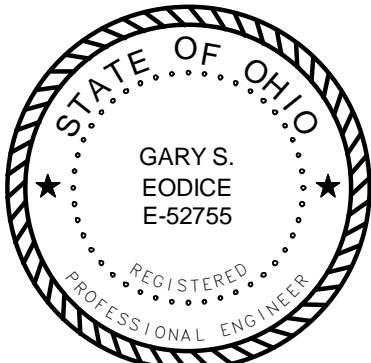
3RD FLOOR PLAN



4TH FLOOR PLAN

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PHASING PLANS

Project Title
REPLACE INDUCTION UNITS

Location
Cincinnati, Ohio

Date
07/18/2014

Checked
DLE

Drawn
DRV

Project No.
VA Project No. 539-15-201
Building Number
1
Drawing Number
M002
Dwg. 3 of 18

Office of
Construction
and Facilities
Management



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PHASE 12

PHASE 13

The floor plan shows a large, irregularly shaped building with numerous rooms of varying sizes. Some rooms are labeled with numbers (e.g., 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903,

PHASE 14

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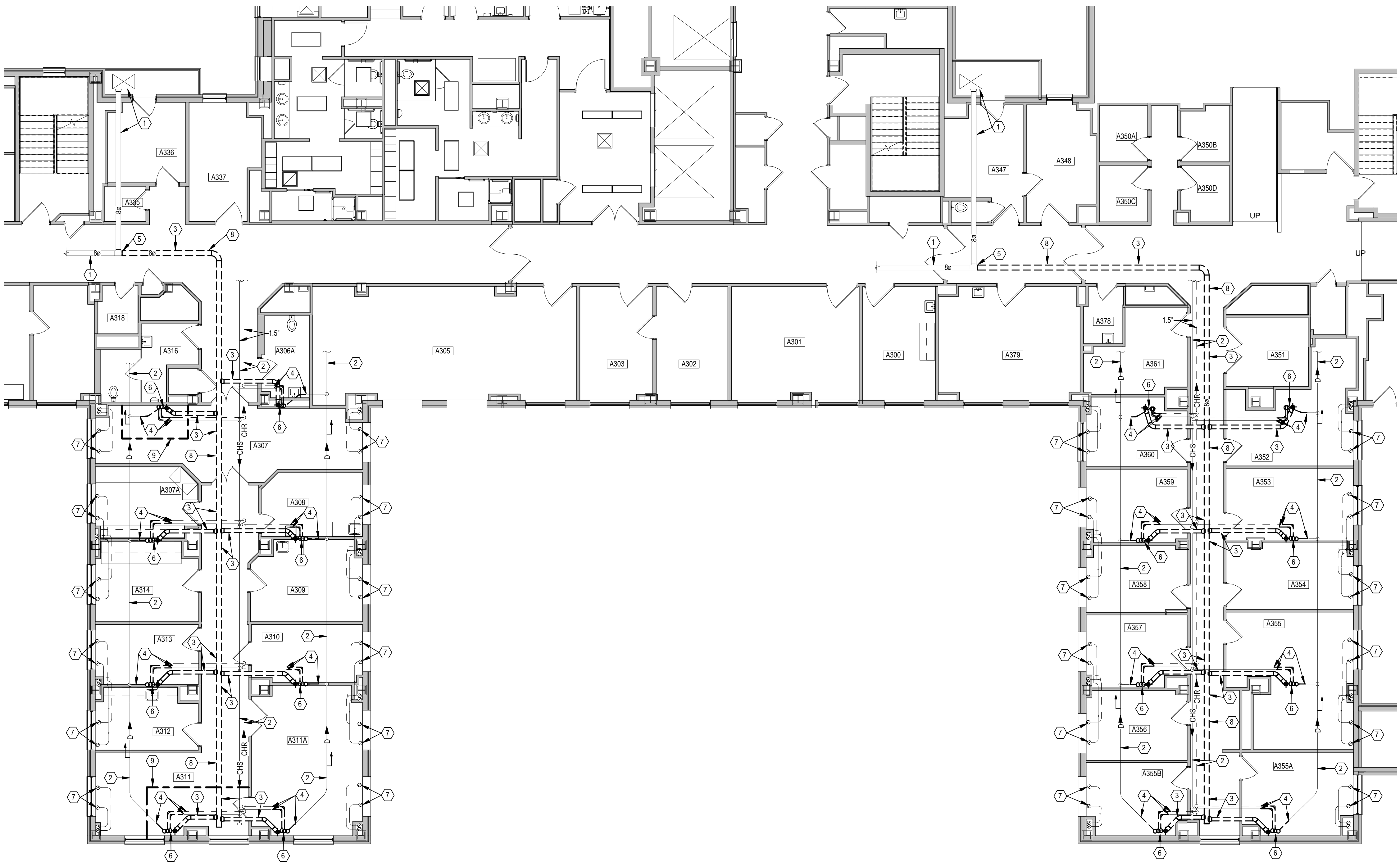
GENERAL NOTES

- A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B ALL RUNOUT PIPING SHOWN ON THIS SHEET SHALL BE 0.75" UNLESS NOTED OTHERWISE.
C COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

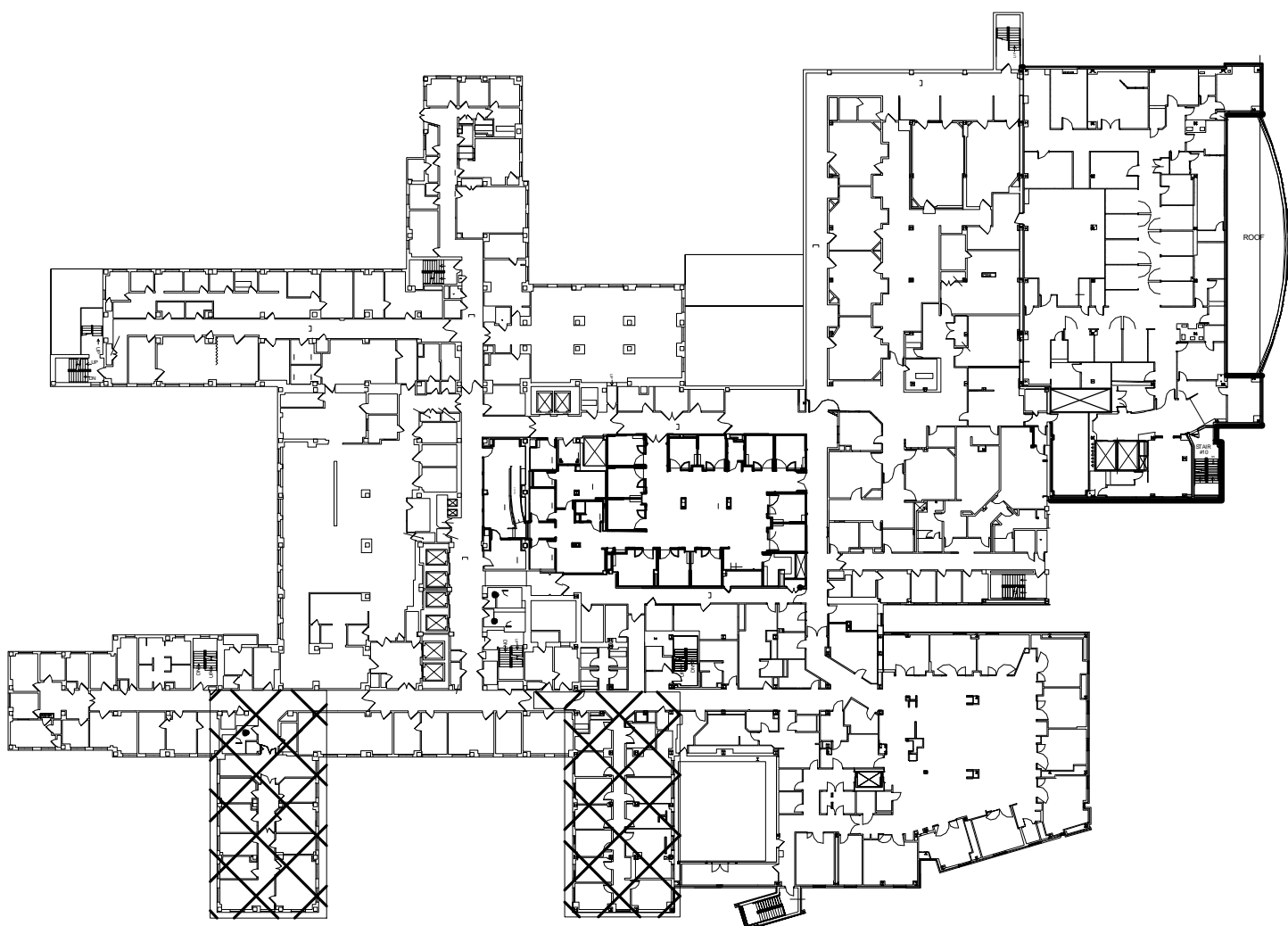
NOTES

- 1 EXISTING DUCTWORK TO REMAIN.
2 EXISTING PIPING TO REMAIN.
3 REMOVE EXISTING DUCTWORK AND ASSOCIATED SUPPORTS, ETC.
4 REMOVE EXISTING PIPING TO THIS POINT FOR RE-CONNECTION IN NEW WORK.
5 REMOVE DUCTWORK TO THIS POINT AND CAP.
6 REMOVE EXISTING CHILLED WATER AND CONDENSATE DRAIN PIPING AND OUTSIDE AIR DUCTWORK UP TO WALL MOUNTED INDUCTION UNIT ON FLOOR ABOVE. REFER TO DETAIL ON SHEET MD104.
7 EXISTING STEAM AND CONDENSATE PIPES UP TO FLOOR ABOVE TO REMAIN.
8 REMOVAL OF DUCTWORK ABOVE CEILING IN CORRIDORS (PHASE 14) SHALL TAKE PLACE DURING WEEKENDS OR WEEKNIGHTS (AFTER 6:00 PM).
9 PROVIDE TEMPORARY PARTITION AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC SHEET. MAINTAIN NEGATIVE PRESSURE WORK ENVIRONMENT WITHIN PARTITION.

ROOM SCHEDULE - THIRD FLOOR	
Number	Name
A300	VASCULAR LAB
A301	VASCULAR LAB
A302	CHIEF DIETICIAN
A303	DIET. SEC.
A305	DIETICIAN OFFICE
A306A	FEMALE TOILET
A307	WAITING
A307A	ADM. ASSISTANT
A308	EXAM
A309	EXAM
A310	STORAGE
A311	FINISHING
A311A	MACHINING
A312	PLASTER
A313	CANONCAM
A314	OFFICE
A316	MALE TOILET
A318	HAC
A335	STORAGE
A336	STORAGE
A337	ASSN. CHIEF DIETICIAN
A347	VASCULAR LAB
A348	VASCULAR LAB
A350A	OFFICE
A350B	OFFICE
A350C	OFFICE
A350D	OFFICE
A351	STORAGE
A352	ADM. ASSISTANT
A353	OFFICE
A354	CONFERENCE
A355	CHIEF OF SURGERY
A355A	OFFICE
A355B	PHYSICIAN REVIEW
A356	OFFICE
A357	OFFICE
A358	ADM. ASSISTANT
A359	OFFICE
A360	OFFICE
A361	OFFICE
A378	HAC
A379	VASCULAR LAB



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



KEYPLAN - THIRD FLOOR REMOVALS
SCALE: 1/64" = 1'-0"

Revisions		Date		CONSULTANTS:		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project No.		Building Number		Drawing Number		Date		Checked		Drawn		Dwg. 5 of 18		Office of Construction and Facilities Management		Department of Veterans Affairs	
1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	

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GARY S. EDDICE
E-62755
REGISTERED PROFESSIONAL ENGINEER

Heapy Engineering
MEP Design Technology Planning Commissioning Energy
Nationally Recognized Leader in Sustainability
1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com
HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

THIRD FLOOR PLAN - REMOVALS

REPLACE INDUCTION UNITS

Cincinnati, Ohio

539-15-201

1

MD103

07/18/2014

DLE

DRV

Office of Construction and Facilities Management

Department of Veterans Affairs

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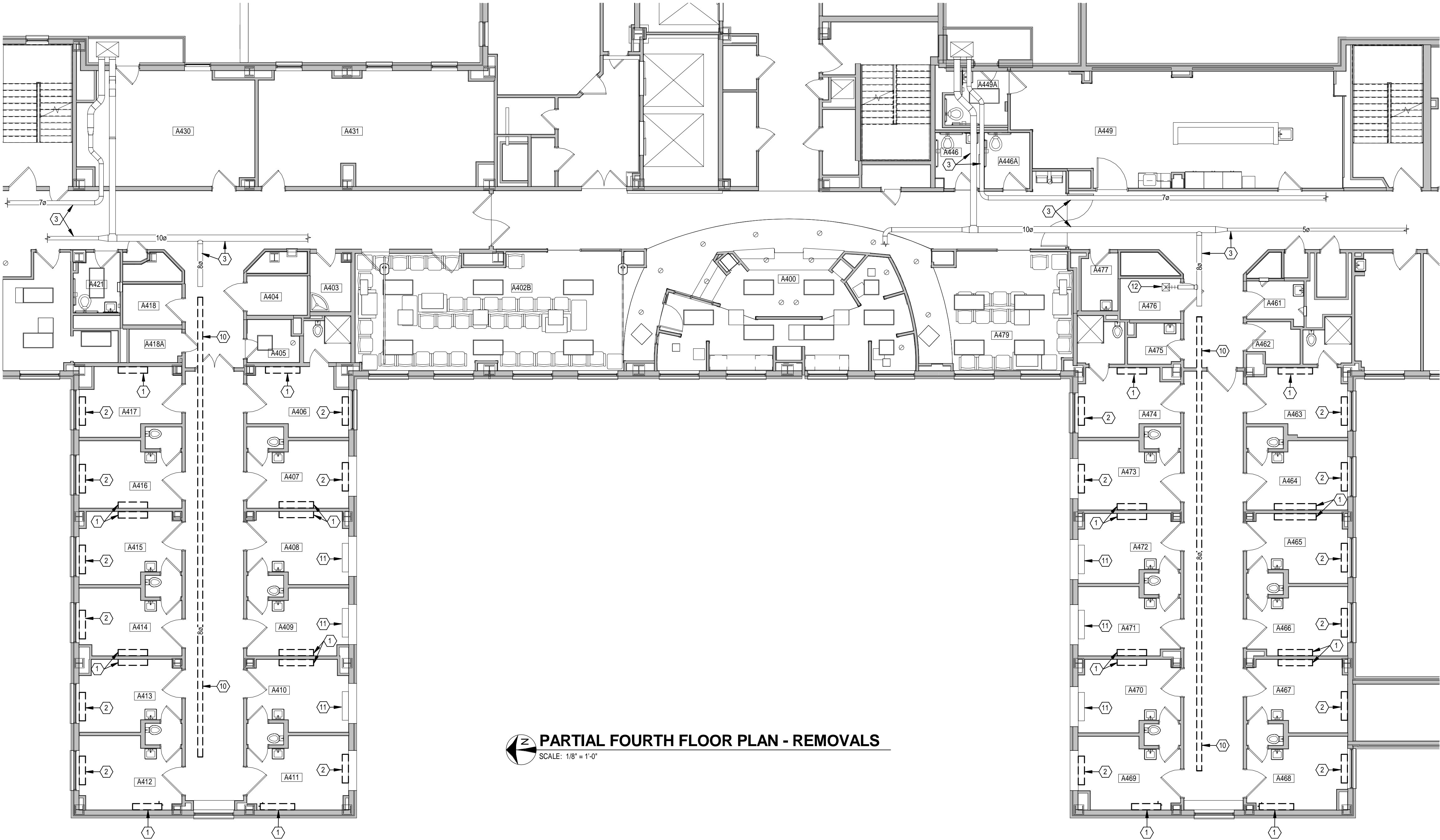
GENERAL NOTES

- A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
- B REPAIR EXISTING WALLS/FLOORS TO MATCH ADJACENT UNDISTURBED WALLS/FLOORS WHERE MECHANICAL EQUIPMENT IS SHOWN TO BE REMOVED, IN PREPARATION FOR NEW FINISHES.
- C COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

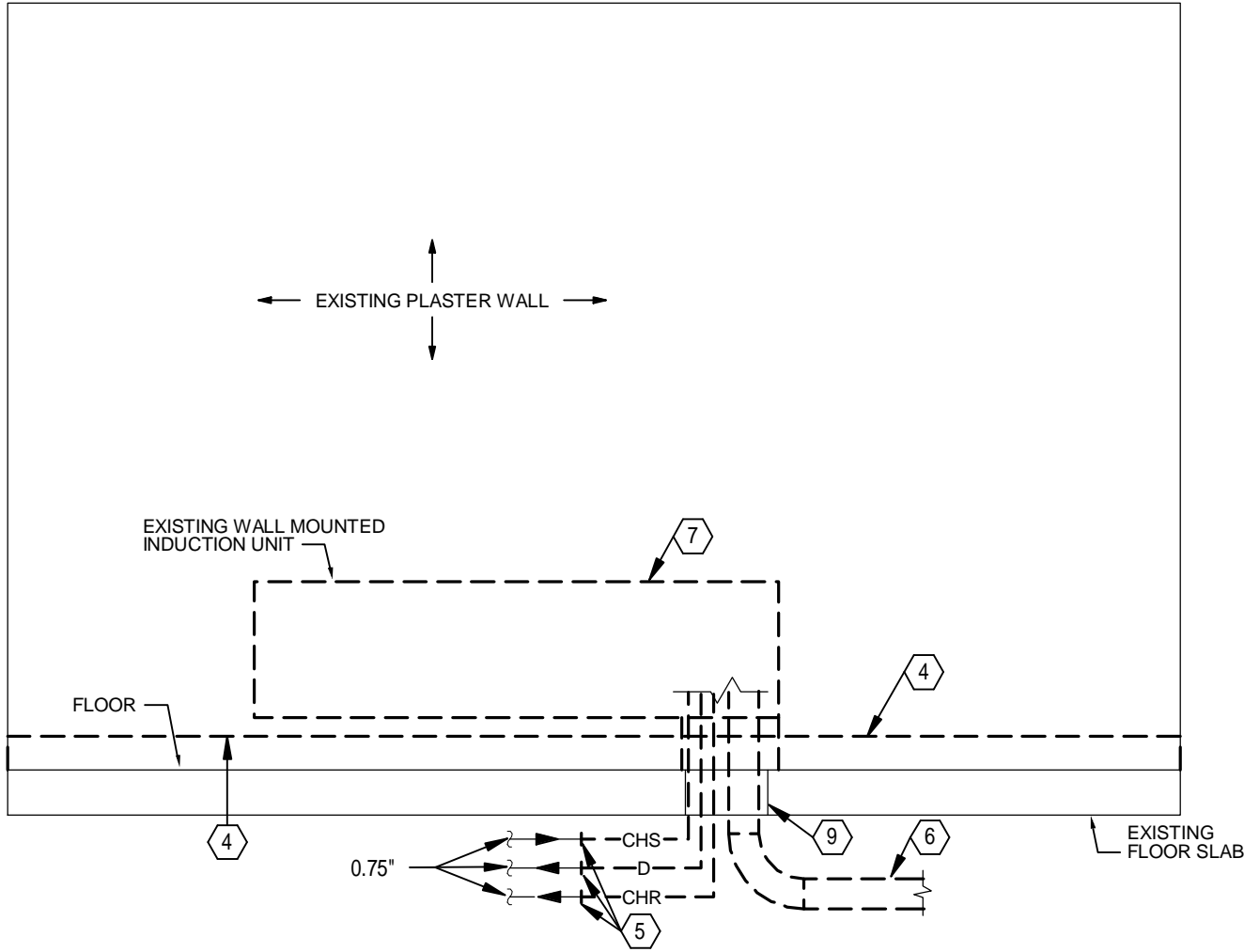
NOTES

- 1 REMOVE EXISTING WALL HUNG INDUCTION UNIT. REFER TO ENLARGED VIEW ON THIS SHEET.
- 2 REMOVE EXISTING WALL HUNG STEAM CONVECTOR FOR REPLACEMENT IN NEW WORK. REFER TO DETAIL ON SHEET M002.
- 3 EXISTING OUTSIDE AIR DUCT TO REMAIN.
- 4 REMOVE EXISTING RESILIENT WALL BASE WALL TO WALL FOR REPLACEMENT IN NEW WORK.
- 5 REMOVE EXISTING PIPING TO THIS POINT FOR RE-CONNECTION IN NEW WORK. REFER TO FAN COIL NEW WORK DETAIL ON SHEET M104.
- 6 REMOVE DUCTWORK AND ASSOCIATED SUPPORTS, ETC. REFER TO FLOOR PLANS.
- 7 REMOVE EXISTING WALL HUNG INDUCTION UNIT AND ASSOCIATED PIPING, SUPPORTS, CONTROLS, ETC.
- 8 REMOVE EXISTING PIPING AND DUCTWORK THROUGH WALL (WHERE BACK-TO-BACK UNITS SHOWN ON DRAWINGS).
- 9 EXISTING OPENING IN FLOOR SLAB.
- 10 REMOVE EXISTING ABANDONED DUCT AND ASSOCIATED SUPPORTS, ETC. WORK SHALL BE DONE DURING WEEKENDS OR WEEKNIGHTS (AFTER 6:00 PM).
- 11 EXISTING WALL MOUNTED STEAM CONVECTOR TO REMAIN.
- 12 EXISTING AIR DEVICE TO REMAIN.

ROOM SCHEDULE - FOURTH FLOOR		
Number		Name
A400		RECEPTION
A402B		WAITING
A403		HAC
A404		STORAGE
A405		STORAGE
A406		EXAM ROOM
A407		EXAM ROOM
A408		EXAM ROOM
A409		EXAM ROOM
A410		EXAM ROOM
A411		EXAM ROOM
A412		EXAM ROOM
A413		EXAM ROOM
A414		EXAM ROOM
A415		EXAM ROOM
A416		EXAM ROOM
A417		EXAM ROOM
A418		STORAGE
A418A		ELECTRIC CLOSET
A421		STAFF TOILET
A430		COMPUTER TRAINING
A431		COMPUTER SPECIALIST
A436		SERVICE LOBBY
A436B		ELECTRIC
A446		MEN'S TOILET
A446A		WOMEN'S TOILET
A449		INFUSION
A449A		TOILET
A461		SOILED UTILITY
A462		CLEAN LINEN
A463		EXAM ROOM
A464		EXAM ROOM
A465		EXAM ROOM
A466		EXAM ROOM
A467		EXAM ROOM
A468		EXAM ROOM
A469		EXAM ROOM
A470		EXAM ROOM
A471		EXAM ROOM
A472		EXAM ROOM
A473		EXAM ROOM
A474		EXAM ROOM
A475		KITCHEN
A476		SUPPLIES
A477		HAC
A479		WAITING



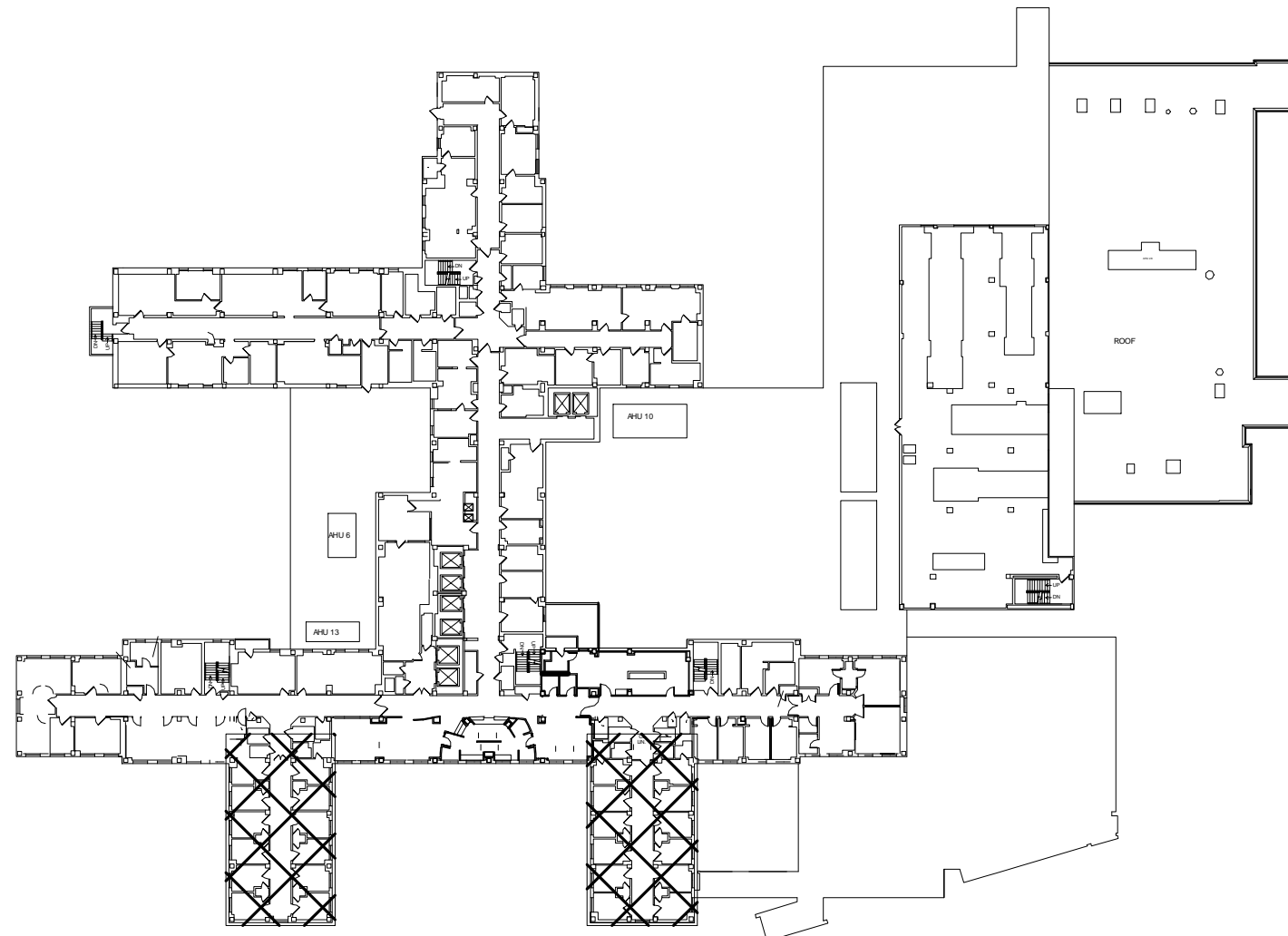
PARTIAL FOURTH FLOOR PLAN - REMOVALS
SCALE: 1/8" = 1'-0"



FRONT VIEW

TOP VIEW

INDUCTION UNIT REMOVAL DETAIL
SCALE: 1/2" = 1'-0"



KEYPLAN - FOURTH FLOOR REMOVALS
SCALE: 1/8" = 1'-0"

Revisions	Date	CONSULTANTS:	ARCHITECT/ENGINEERS:	Drawing Title	Project Title	Project No.	Building Number	Drawing Number	Office of Construction and Facilities Management
				FOURTH FLOOR PLAN - REMOVALS	REPLACE INDUCTION UNITS	539-15-201	1	MD104	Department of Veterans Affairs
				Approved: Project Director	Location	Cincinnati, Ohio		Dwg. 6 of 18	
					Date	07/18/2014	Checked	Drawn	
							DLE	DRV	



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HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

FULLY SPRINKLERED

GENERAL NOTES

- A REFER TO SHEET MD1 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B ALL RUNOUT PIPING SHOWN ON THIS SHEET SHALL BE 0.75" UNLESS NOTED OTHERWISE.
C COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

NOTES

- 1 EXISTING DUCTWORK TO REMAIN.
2 EXISTING PIPING TO REMAIN.
3 REMOVE EXISTING DUCTWORK AND ASSOCIATED SUPPORTS, ETC.
4 REMOVE EXISTING PIPING TO THIS POINT FOR RE-CONNECTION IN NEW WORK.
5 EXISTING STEAM AND CONDENSATE PIPES UP TO FLOOR ABOVE TO REMAIN.
6 REMOVE EXISTING CHILLED WATER AND CONDENSATE DRAIN PIPING AND OUTSIDE AIR DUCTWORK UP TO WALL MOUNTED INDUCTION UNIT ON FLOOR ABOVE. REFER TO DETAIL ON SHEET MD104.
7 REMOVE DUCTWORK TO THIS POINT AND CAP.
8 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM PROJECT UNDER BID ITEM 2.
9 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM PROJECT UNDER BID ITEM 3.
10 ANY WORK (INCLUDING ASBESTOS ABATEMENT) TAKING PLACE IN ROOMS B806, B807, AND B809 SHALL BE DONE BETWEEN 4:00 PM SATURDAY AND 5:00 AM MONDAY. ROOMS MUST BE CLEANED AND READY TO RESUME FUNCTION PRIOR TO 5:00 AM MONDAY.
11 PROVIDE TEMPORARY PARTITION AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC SHEET. MAINTAIN NEGATIVE PRESSURE WORK ENVIRONMENT WITHIN PARTITION.
12 ALL WORK DONE IN ROOM A800 SHALL BE DONE BETWEEN THE HOURS OF 4:00 PM AND 7:00 AM. ROOM MUST BE CLEANED AND READY TO RESUME FUNCTION PRIOR TO 7:00 AM.
13 INSTALL 24" X 24" ACCESS PANEL TO ALLOW FOR REMOVAL AND REPLACEMENT OF UTILITIES SERVING FLOOR ABOVE.

EIGHTH FLOOR PLAN (EAST) - REMOVALS

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

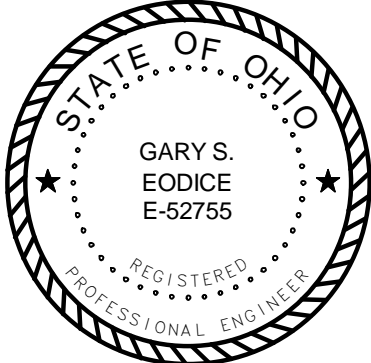
EIGHTH FLOOR PLAN (WEST) - REMOVALS

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

KEYPLAN - EIGHTH FLOOR REMOVALS

SCALE: 1/64" = 1'-0"

ROOM SCHEDULE - EIGHTH FLOOR	
Number	Name
A800	NURSES STATION
A800A	STORAGE
A800B	CHARTING
A800C	STAFF TOILET
A801	PHYSICIAN OFFICE
A802	EXAM ROOM
A803	OFFICE
A804	PHYSICIAN OFFICE
A805	OFFICE
A806	OFFICE
A807	OFFICE
A815	OFFICE
A818	ELECTRICAL
A819	COUNSEL OFFICE
A824	STORAGE
A825	OFFICE
A826	DIRECTOR OFFICE
A827	COORDINATOR OFFICE
A829	SERVICE LOBBY
A829A	TRASH CHUTE
A829B	TECH OFFICE
A830	OFFICE
A831	STAT OFFICE
A832	OFFICE
A833	ALCOHOL RESEARCH
A833A	RESEARCH LAB
A837	WAITING
A838	DERMATOLOGY
A839	CONFERENCE ROOM
A846	DAY ROOM
A868	GROUP ROOM
B801	STAFF TOILET
B802	TOILET
B803	DUMBWATER
B805	SPD STORAGE
B805A	CLOSET
B806	SUPPLIES
B807	WATER TREATMENT
B808	STAFF TOILET
B809	FELLOW
B810	BREAK ROOM
B810A	HEAD NURSE OFFICE
B811	SIGNALS CLOSET
B812	ELECTRICAL
B814	TOILET
B815	STORAGE
B817	SOILED UTILITY
B818	ELECTRICAL
B819	HEMO LAB
B820	OFFICE
B821	HEMO LAB
B822	FEMALE STAFF TOILET
B823	MEN'S LOCKERS
B824	MECHANICAL WORK
B825	ADMIN ASSISTANT
B826	CHIEF OFFICE



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EIGHTH FLOOR PLAN -
REMOVALS

Project Title
REPLACE INDUCTION UNITS

Location
Cincinnati, Ohio

Date
07/18/2014

Checked
DLE

Drawn
DRV

Project No.
VA Project No. 539-15-201
Building Number
1
Drawing Number
MD108
Dwg. 7 of 18

Office of
Construction
and Facilities
Management



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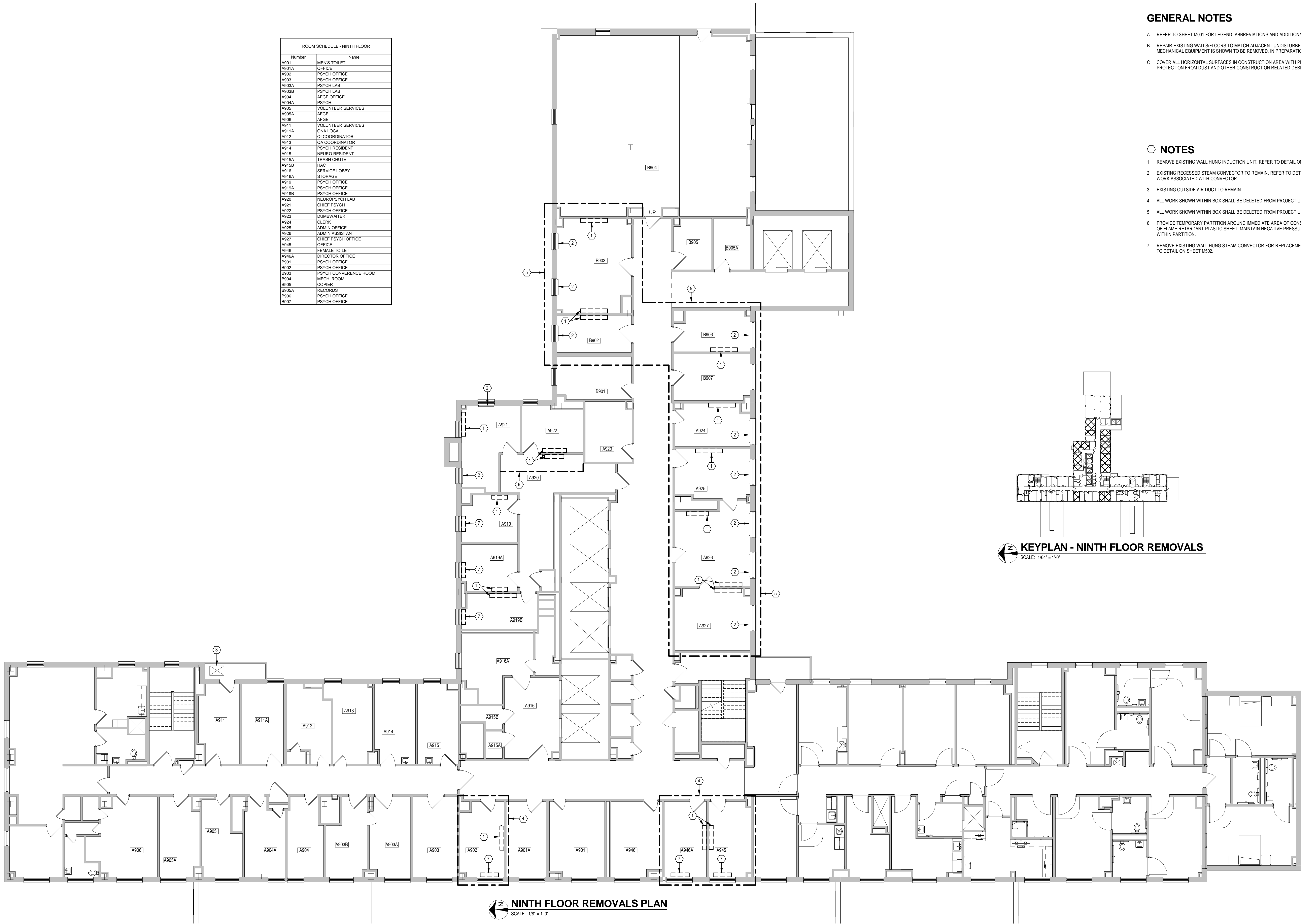
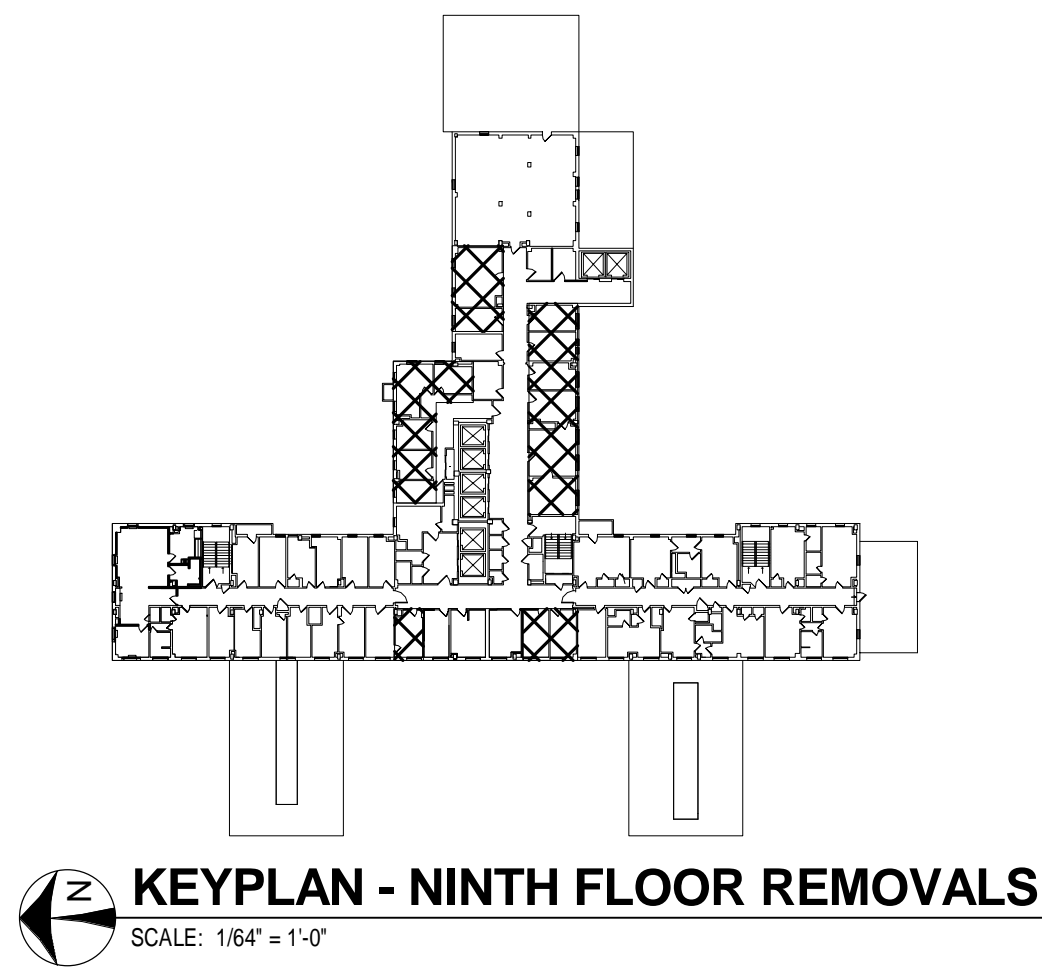
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GENERAL NOTES

- A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
- B REPAIR EXISTING WALLS/FLOORS TO MATCH ADJACENT UNDISTURBED WALLS/FLOORS WHERE MECHANICAL EQUIPMENT IS SHOWN TO BE REMOVED, IN PREPARATION FOR NEW FINISHES.
- C COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

NOTES

- 1 REMOVE EXISTING WALL HUNG INDUCTION UNIT. REFER TO DETAIL ON SHEET MD104.
- 2 EXISTING RECESSED STEAM CONVECTOR TO REMAIN. REFER TO DETAIL ON SHEET M502 FOR WORK ASSOCIATED WITH CONVECTOR.
- 3 EXISTING OUTSIDE AIR DUCT TO REMAIN.
- 4 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM PROJECT UNDER BID ITEM 2.
- 5 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM PROJECT UNDER BID ITEM 3.
- 6 PROVIDE TEMPORARY PARTITION AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC SHEET, MAINTAIN NEGATIVE PRESSURE WORK ENVIRONMENT WITHIN PARTITION.
- 7 REMOVE EXISTING WALL HUNG STEAM CONVECTOR FOR REPLACEMENT IN NEW WORK. REFER TO DETAIL ON SHEET M502.



Number	Name
A901	MEN'S TOILET
A901A	OFFICE
A902	PSYCH OFFICE
A903	PSYCH OFFICE
A903A	PSYCH LAB
A903B	PSYCH LAB
A904	AFGE OFFICE
A904A	PSYCH
A905	VOLUNTEER SERVICES
A905A	AFGE
A906	AFGE
A911	VOLUNTEER SERVICES
A911A	ONA LOCAL
A912	QA COORDINATOR
A913	QA COORDINATOR
A914	PSYCH RESIDENT
A915	NEURO RESIDENT
A915A	TRASH CHUTE
A915B	HAC
A916	SERVICE LOBBY
A916A	STORAGE
A919	PSYCH OFFICE
A919A	PSYCH OFFICE
A919B	PSYCH OFFICE
A920	NEUROPSYCH LAB
A921	CHIEF PSYCH
A922	PSYCH OFFICE
A923	DUNBOWATER
A924	CLERK
A925	ADMIN OFFICE
A926	ADMIN ASSISTANT
A927	CHIEF PSYCH OFFICE
A945	OFFICE
A946	FEMALE TOILET
A946A	DIRECTOR OFFICE
B901	PSYCH OFFICE
B902	PSYCH OFFICE
B903	PSYCH CONFERENCE ROOM
B904	MECH ROOM
B905	COPIER
B905A	RECORDS
B906	PSYCH OFFICE
B907	PSYCH OFFICE

NINTH FLOOR REMOVALS PLAN
SCALE: 1/8" = 1'-0"

CONSULTANTS:

ARCHITECT/ENGINEERS:



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HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

NINTH FLOOR PLAN - REMOVALS

Project Title
REPLACE INDUCTION UNITS

Location
Cincinnati, Ohio

Date
07/18/2014

Checked
DLE

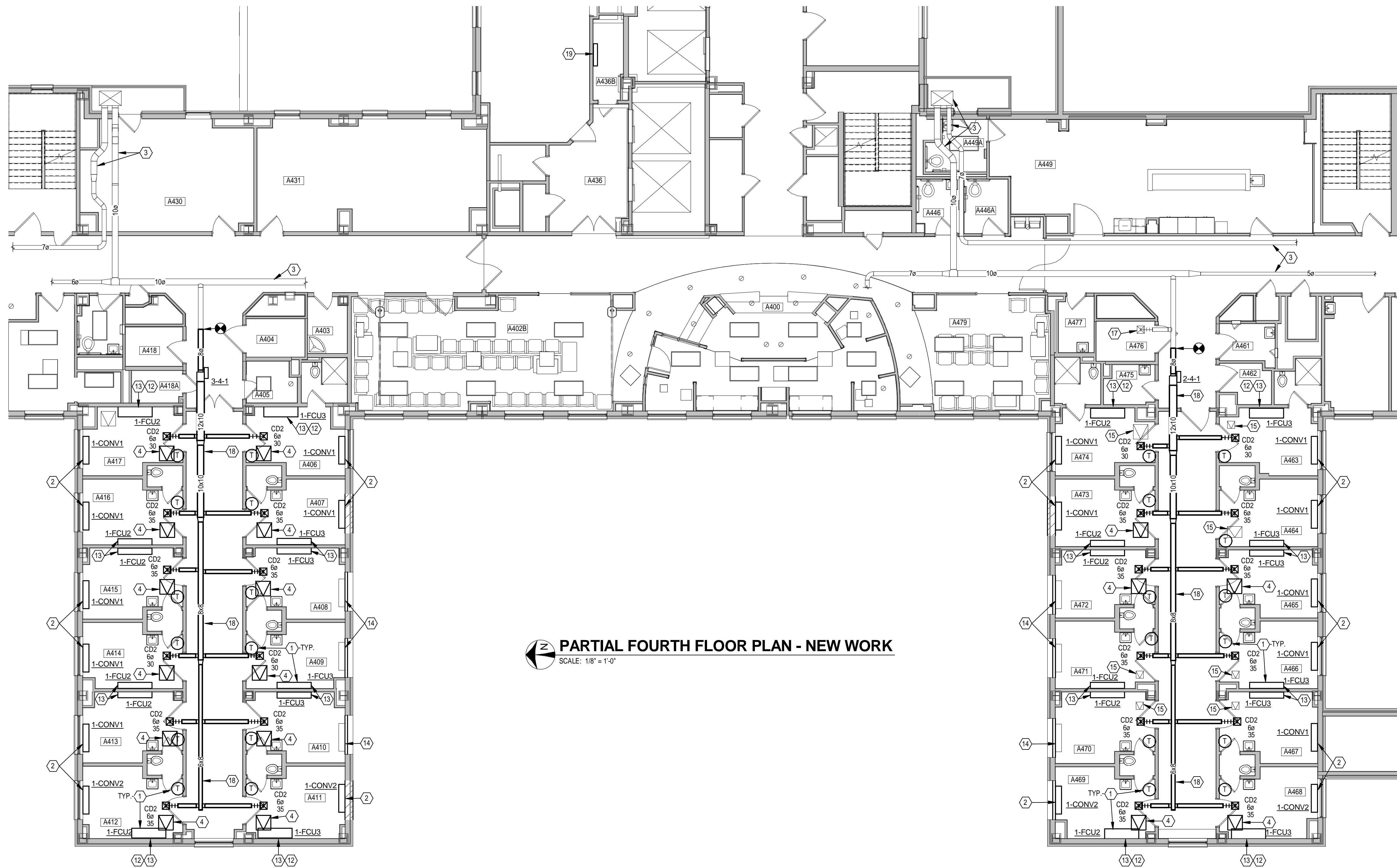
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Project No.
VA Project No. 539-15-201
Building Number
1
Drawing Number
MD109
Dwg. 8 of 18

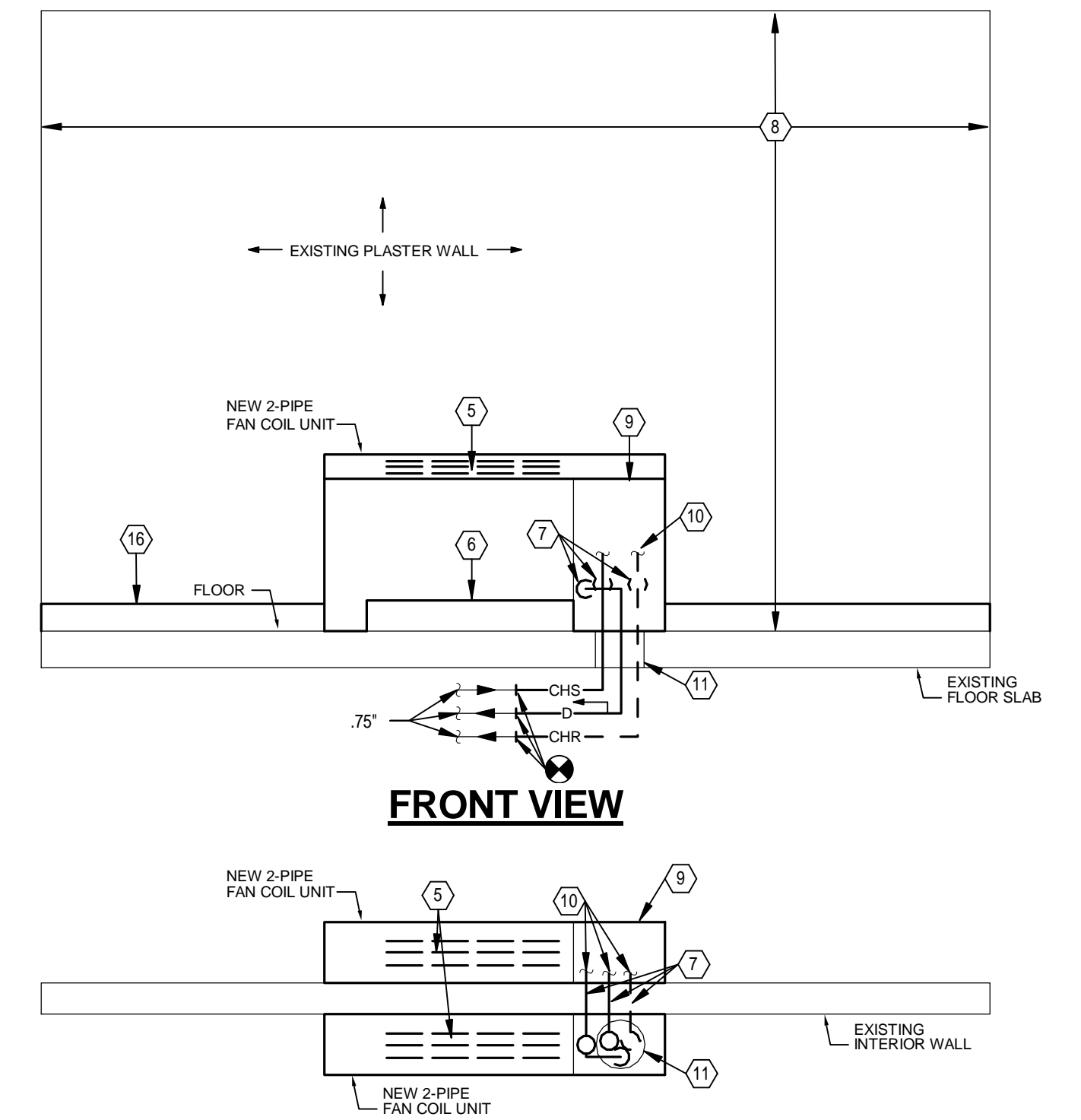
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Construction
and Facilities
Management



ROOM SCHEDULE - FOURTH FLOOR		
Number		Name
A400	RECEPTION	
A403	HQ2	
A404	STORAGE	
A405	STORAGE	
A406	EXAM ROOM	
A407	EXAM ROOM	
A408	EXAM ROOM	
A409	EXAM ROOM	
A410	EXAM ROOM	
A411	EXAM ROOM	
A412	EXAM ROOM	
A413	EXAM ROOM	
A414	EXAM ROOM	
A415	EXAM ROOM	
A416	EXAM ROOM	
A417	EXAM ROOM	
A418	STORAGE	
A419A	ELECTRIC CLOSET	
A420	START-UP ROOM	
A430	COMPUTER TRAINING	
A431	COMPUTER SPECIALIST	
A432	SERVICE AREA	
A436B	ELECTRIC	
A446	MENS TOILET	
A448A	WOMENS TOILET	
A449	INFUSION	
A449A	TOILET	
A461	SOILED UTILITY	
A462	CLEAN UTILITY	
A463	EXAM ROOM	
A464	EXAM ROOM	
A465	EXAM ROOM	
A466	EXAM ROOM	
A467	EXAM ROOM	
A468	EXAM ROOM	
A469	EXAM ROOM	
A470	EXAM ROOM	
A471	EXAM ROOM	
A472	EXAM ROOM	
A473	EXAM ROOM	
A474	EXAM ROOM	
A475	KITCHEN	
A476	SUPPLIES	
A477	HQ3	
A479	WAITING	



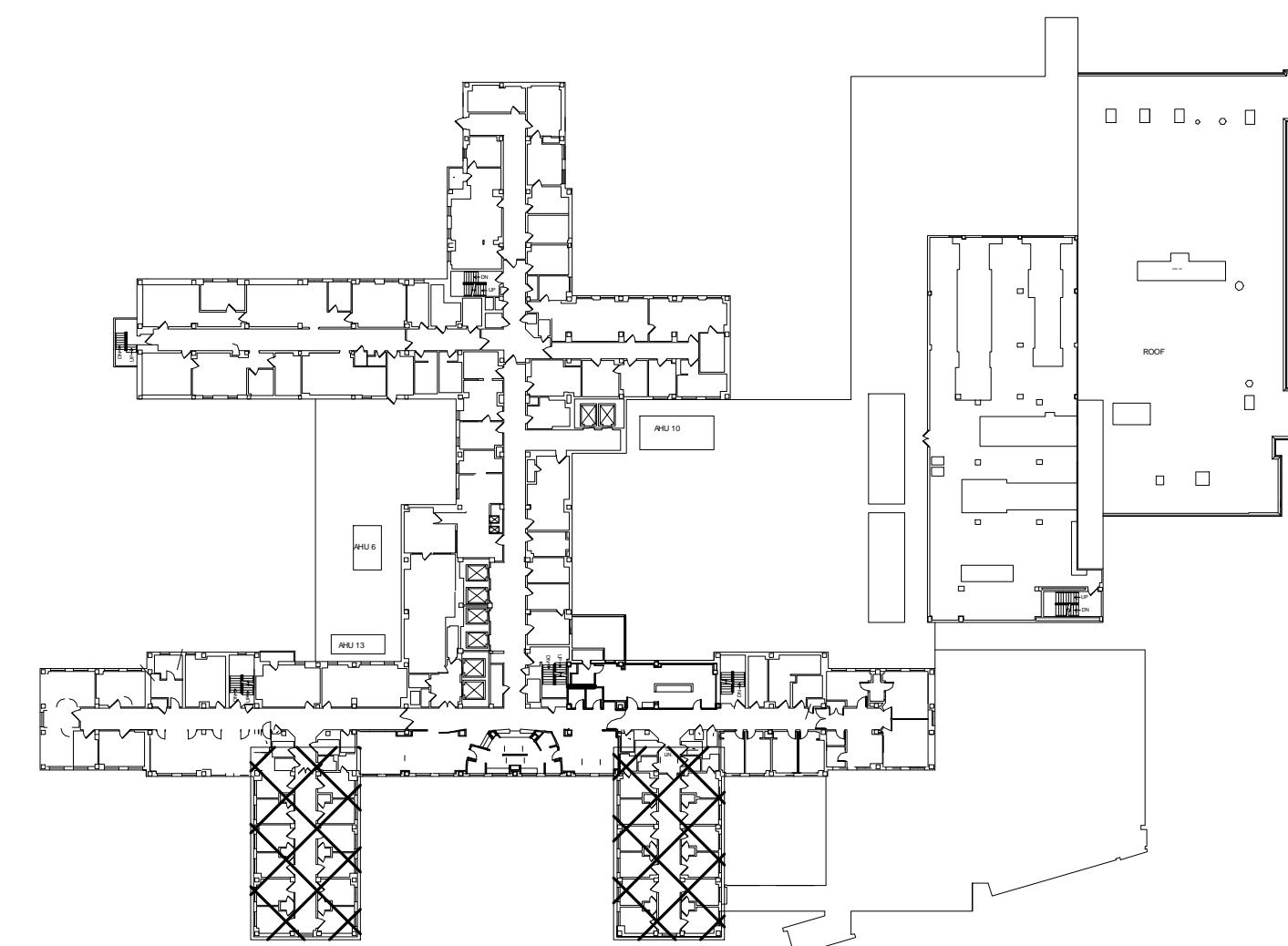
 **PARTIAL FOURTH FLOOR PLAN - NEW WORK**
SCALE: 1/8" = 1'-0"



TOP VIEW

NEW FAN COIL DETAIL

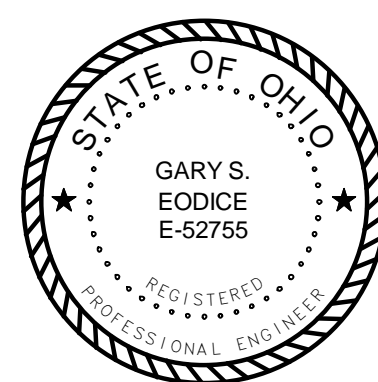
SCALE: 1/2" = 1'-0"



KEYPLAN - FOURTH FLOOR NEW WORK
SCALE: 1/64" = 1'-0"

[illegible]

CONSULTANTS:



ARCHITECT/ENGINEERS:

 **Heapy Engineering**
MEP Design Technology Planning Commissioning Energy

Nationally Recognized Leader in Sustainability

1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com

HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

	Drawing Title
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FOURTH FLOOR PLAN - DUCTWORK

Approved: Project Director

	Project Title
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REPLACE INDUCTION UNITS

Location	
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Cincinnati, Ohio

Date 07/18/2014

Checked	DLE
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Drawn
DRV

Project No.	VA Project No.	539-15-201
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Building Number
1

Drawing Number
ML140

Dwg. 9 of 18

Office of
Construction
and Facilities
Management

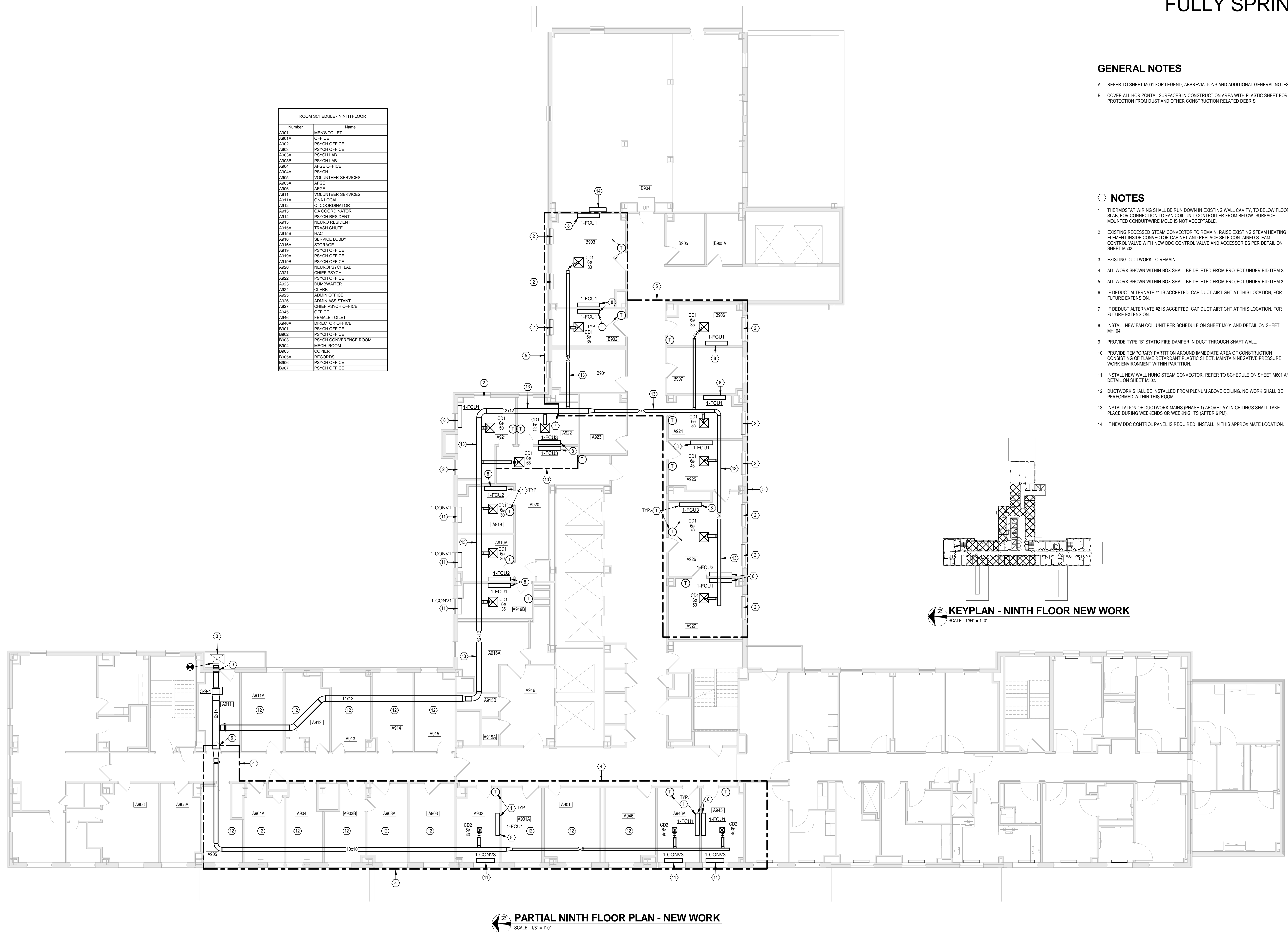


A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.

B COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

1. THERMOSTAT WIRING SHALL BE RUN DOWN IN EXISTING WALL CAVITY, TO BELOW FLOOR SLAB, FOR CONNECTION TO FAN COIL UNIT CONTROLLER FROM BELOW. SURFACE MOUNTED CONDUTIVITE MOLD IS NOT ACCEPTABLE.
2. EXISTING RECESSED STEAM CONNECTOR TO REMAIN. RAISE EXISTING STEAM HEATING ELEMENT INTO EXISTING CABINET AND REPLACE SELF-CONTAINED STEAM CONTROL VALVE WITH NEW DDC CONTROL VALVE AND ACCESSORIES PER DETAIL ON SHEET M502.
3. EXISTING DUCTWORK TO REMAIN.
4. ALL WORK SHOWN WITHIN WALL SHALL BE DELETED FROM PROJECT UNDER BID ITEM 2.
5. ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM PROJECT UNDER BID ITEM 3.
6. IF DUCT ALTERNATE #1 IS ACCEPTED, CAP DUCT AIRTIGHT AT THIS LOCATION, FOR FUTURE EXTENSION.
7. IF DUCT ALTERNATE #2 IS ACCEPTED, CAP DUCT AIRTIGHT AT THIS LOCATION, FOR FUTURE EXTENSION.
8. INSTALL NEW FAN COIL UNIT PER SCHEDULE ON SHEET M501 AND DETAIL ON SHEET MH104.
9. PROVIDE TYPE "B" STATIC FRIE DAMPER IN DUCT THROUGH SHAFT WALL.
10. PROVIDE TEMPORARY PARTITION AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC SHEET. MAINTAIN NEGATIVE PRESSURE WORK ENVIRONMENT WITHIN PARTITION.
11. INSTALL NEW WALL HUNG STEAM CONNECTOR, REFER TO SCHEDULE ON SHEET M501 AND DETAIL ON SHEET M502.
12. DUCTWORK SHALL BE INSTALLED FROM PLENUM ABOVE CEILING. NO WORK SHALL BE PERFORMED WITHIN THIS ROOM.
13. INSTALLATION OF DUCTWORK MAINS (PHASE 1) ABOVE SLAB IN CEILINGS SHALL TAKE PLACE DURING WEEKENDS OR WEEKNIGHTS (AFTER 6 PM).
14. IF NEW DDC CONTROL PANEL IS REQUIRED, INSTALL IN THIS APPROXIMATE LOCATION.

ROOM SCHEDULE - NINTH FLOOR		
Number		Name
A001A	MEN'S TOILET	
A002	OFFICE	
A002	PSYCH OFFICE	
A003	PSYCH OFFICE	
A003A	PSYCH LAB	
A003B	PSYCH LAB	
A004	ARTS OFFICE	
A004A	PSYCH LAB	
A005	VOLUNTEER SERVICES	
A006	ARTS OFFICE	
A006	OFFICE	
A011	VOLUNTEER SERVICES	
A011A	OWA LOCAL	
A012	QI COORDINATOR	
A012	QA COORDINATOR	
A013	PSYCH RESIDENT	
A014	NEURO RESIDENT	
A015	TRANSIT OFFICE	
A015B	HWC	
A016	SERVICE LOBBY	
A017	STORAGE	
A019	PSYCH OFFICE	
A019A	PSYCH OFFICE	
A019B	PSYCH OFFICE	
A020	NEUROPSYCH LAB	
A021	CHIEF PSYCH OFFICE	
A022	DUMBUWATER	
A023	DUMBUWATER	
A024	CLERK	
A025	ADMIN OFFICE	
A026	ADMIN ASSISTANT	
A027	CHIEF PSYCH OFFICE	
A045	ADMIN	
A046	FEMALE TOILET	
A047	LABORATORY	
A048	DIRECTOR OFFICE	
B001	PSYCH OFFICE	
B002	PSYCH OFFICE	
B003	PSYCH CONVENIENCE ROOM	
B004	MICH. ROOM	
B005	COPIES	
B005A	RECORDS	
B006	PSYCH OFFICE	
B007	PSYCH OFFICE	



 **KEYPLAN - NINTH FLOOR NEW WORK**
SCALE: 1/64" = 1'-0"

 **PARTIAL NINTH FLOOR PLAN - NEW WORK**
SCALE: 1/8" = 1'-0"

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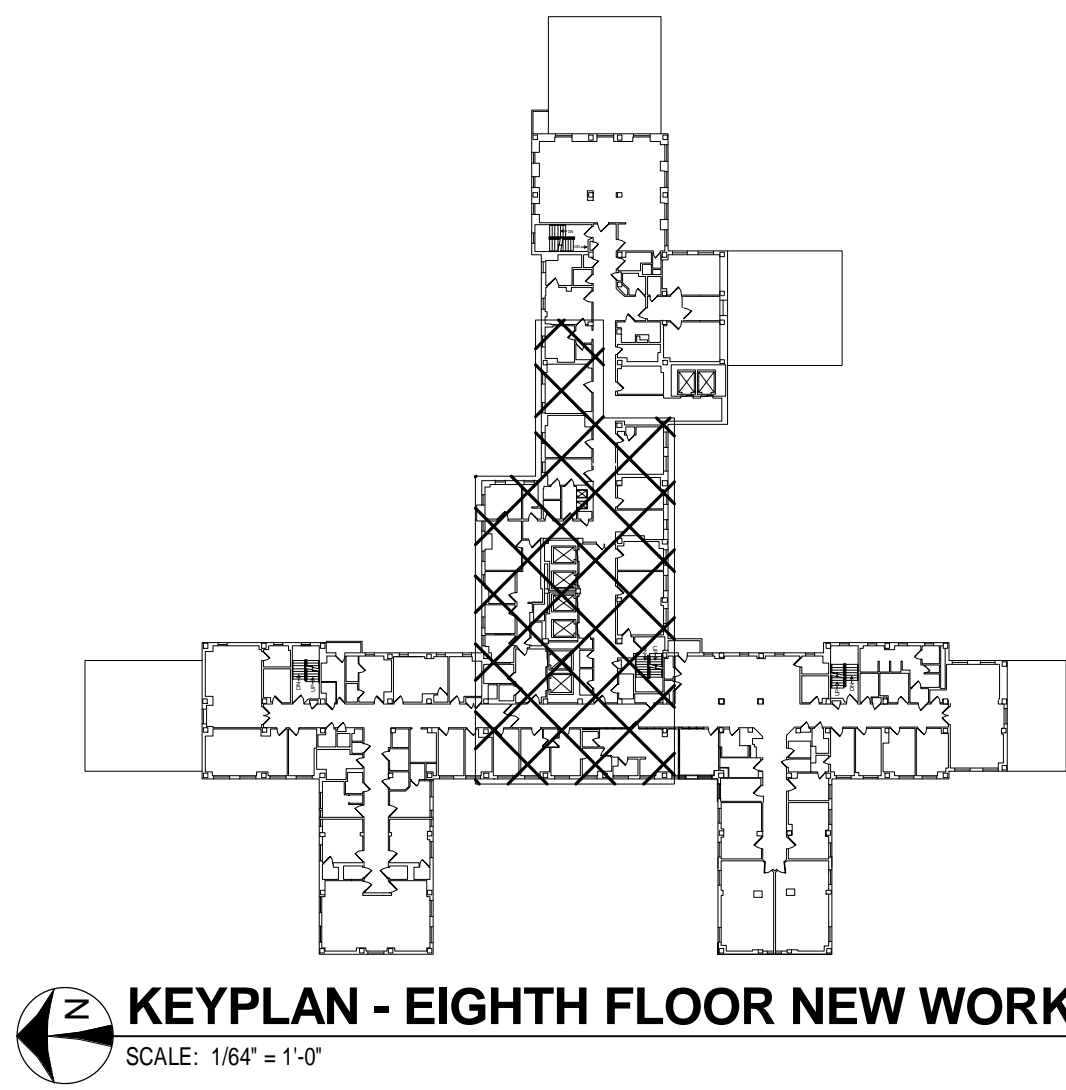
FULLY SPRINKLERED

GENERAL NOTES

- A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.
B ALL NEW RUNOUT PIPING SHALL BE 0.75" UNLESS OTHERWISE NOTED.
C COVER ALL HORIZONTAL SURFACES IN CONSTRUCTION AREA WITH PLASTIC SHEET FOR PROTECTION FROM DUST AND OTHER CONSTRUCTION RELATED DEBRIS.

NOTES

- 1 NEW UTILITIES UP TO NEW TWO-PIPE FAN COIL UNIT ABOVE. REFER TO DETAIL ON SHEET MH104 AND FLOOR SLAB OPENING DETAIL ON SHEET M502.
2 EXISTING PIPING TO REMAIN.
3 ANY WORK (INCLUDING ASBESTOS ABATEMENT) TAKING PLACE IN ROOMS B806, B807, AND B808 SHALL BE DONE BETWEEN 4:00 PM SATURDAY AND 5:00 AM MONDAY. ROOMS MUST BE CLEANED AND READY TO RESUME FUNCTION PRIOR TO 5:00 AM MONDAY.
4 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM THE PROJECT BID ITEM 2.
5 ALL WORK SHOWN WITHIN BOX SHALL BE DELETED FROM THE PROJECT UNDER BID ITEM 3.
6 PROVIDE TEMPORARY PARTITION AROUND IMMEDIATE AREA OF CONSTRUCTION CONSISTING OF FLAME RETARDANT PLASTIC SHEET. MAINTAIN NEGATIVE PRESSURE WORK ENVIRONMENT WITHIN PARTITION.
7 ALL WORK DONE IN ROOM A800 SHALL BE DONE BETWEEN THE HOURS OF 4:00 PM AND 7:00 AM. ROOM MUST BE CLEANED AND READY TO RESUME FUNCTION PRIOR TO 7:00 AM.



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

ROOM SCHEDULE - EIGHTH FLOOR	
Number	Name
A800	NURSES STATION
A800A	STORAGE
A800B	CHARTING
A800C	STAFF TOILET
A801	PHYSICIAN OFFICE
A802	EXAM ROOM
A803	OFFICE
A804	PHYSICIAN OFFICE
A805	OFFICE
A806	OFFICE
A807	OFFICE
A815	OFFICE
A818	ELECTRICAL
A819	COUNSEL OFFICE
A824	STORAGE
A825	OFFICE
A826	DIRECTOR OFFICE
A827	COORDINATOR OFFICE
A829	SERVICE LOBBY
A829A	TRASH CHUTE
A829B	TECH OFFICE
A830	OFFICE
A831	STAT OFFICE
A832	OFFICE
A833	ALCOHOL RESEARCH
A833A	RESEARCH LAB
A837	WAITING
A838	DERMATOLOGY
A839	CONFERENCE ROOM
A846	DAY ROOM
A868	GROUP ROOM
B801	STAFF TOILET
B802	TOILET
B803	DUMBWATER
B805	SPD STORAGE
B805A	CLOSET
B806	SUPPLIES
B807	WATER TREATMENT
B808	STAFF TOILET
B809	FELLOW
B810	BREAK ROOM
B810A	HEAD NURSE OFFICE
B811	SIGNALS CLOSET
B812	ELECTRICAL
B814	TOILET
B815	STORAGE
B817	SOILED UTILITY
B818	ELECTRICAL
B819	HEMO LAB
B820	OFFICE
B821	HEMO LAB
B822	FEMALE STAFF TOILET
B823	MENS LOCKERS
B824	MECHANICAL WORK
B825	ADMIN ASSISTANT
B826	CHIEF OFFICE

7/18/2014 9:51:54 AM

Revisions

Date

CONSULTANTS:

STATE OF OHIO
GARY S. EDDICE
E-52755
REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:
Heapy Engineering
MEP Design Technology Planning Commissioning Energy
Nationally Recognized Leader in Sustainability
1400 W Dorothy Lane, Dayton, OH 45409-1310
Ph 937-224-0861 Fax 937-224-5777 www.heapy.com
HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

Drawing Title
EIGHTH FLOOR PLAN - PIPING
Approved: Project Director

Project Title
REPLACE INDUCTION UNITS
Location
Cincinnati, Ohio
Date
07/18/2014
Checked
DLE
Drawn
DRV

Project No.
VA Project No. 539-15-201
Building Number
1
Drawing Number
MP108
Dwg. 12 of 18

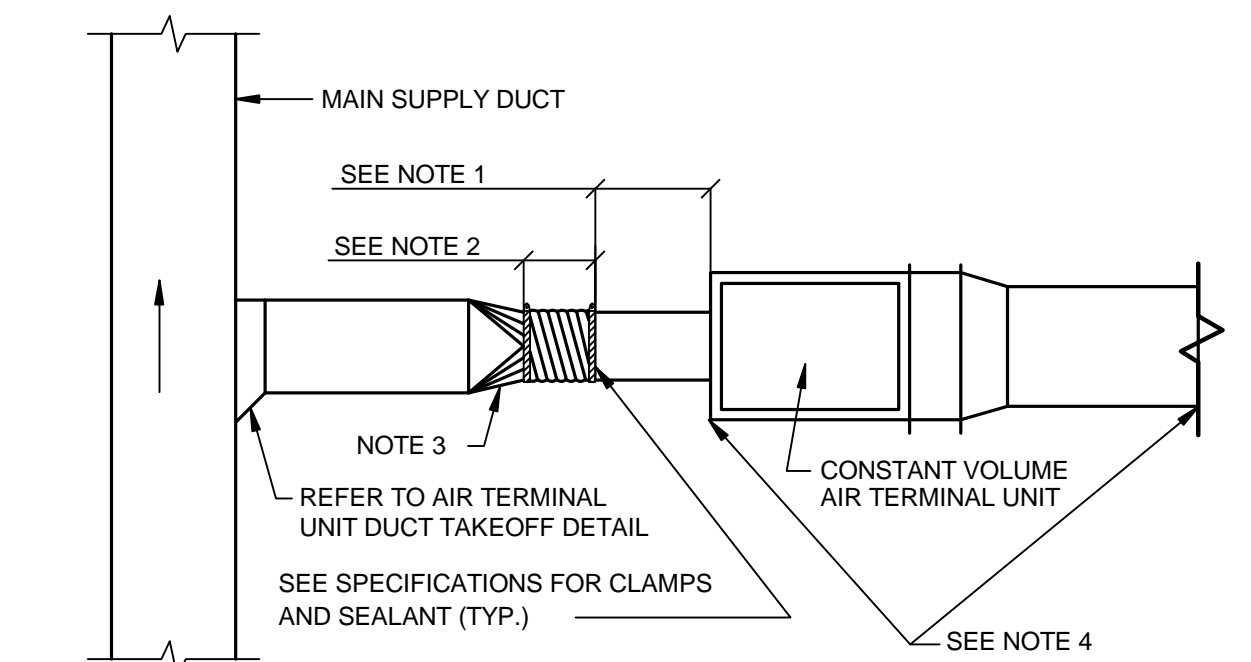
Office of Construction and Facilities Management
Department of Veterans Affairs

FULLY SPRINKLERED

HANGER STRAPS OR RODS			
MAX. DUCT DIA. - IN.	QUANTITY/SIZE IN.	MAX. LOAD LBS.	MAX. SPACING IN.
26	ONE 1 x 22 GA. STRAP	260	144
36	ONE 1 x 18 GA. STRAP	420	144
50	ONE 1 x 16 GA. STRAP	700	144
60	TWO 3/8 DIA. RODS	1320	144
84	TWO 1/2 DIA. RODS	2500	144

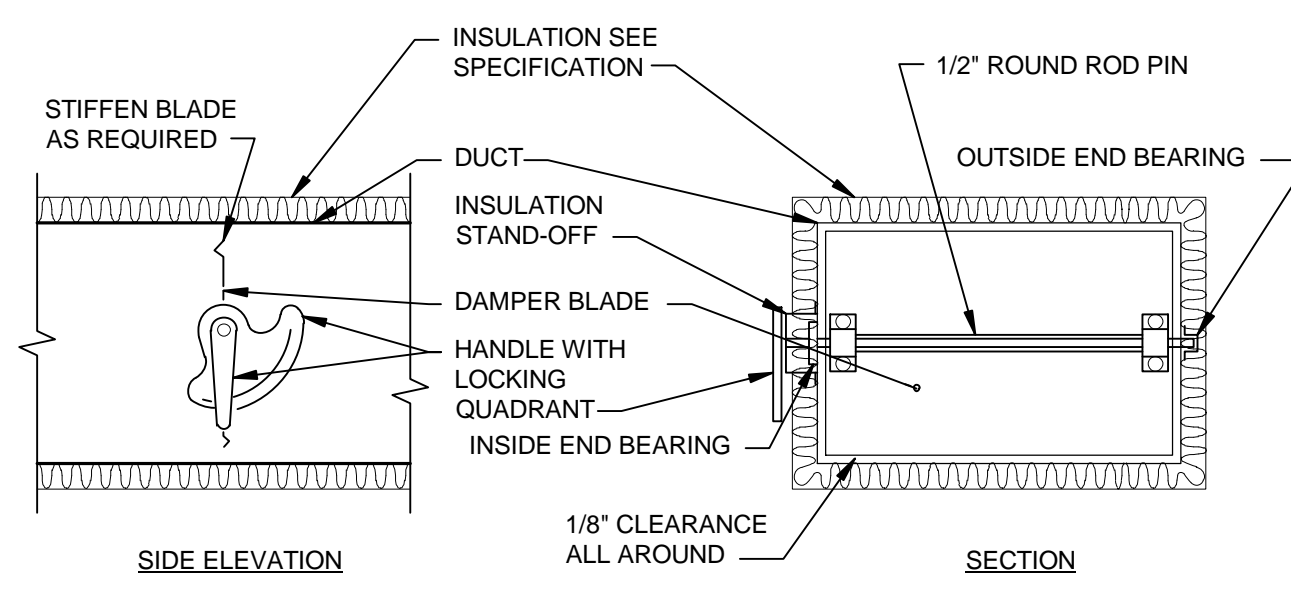
NOTE:
TABULATED DATA FROM SMACNA
ALLOWS FOR DUCT REINFORCING AND
INSULATION, BUT NO EXTERNAL LOAD.

ROUND DUCT HANGERS



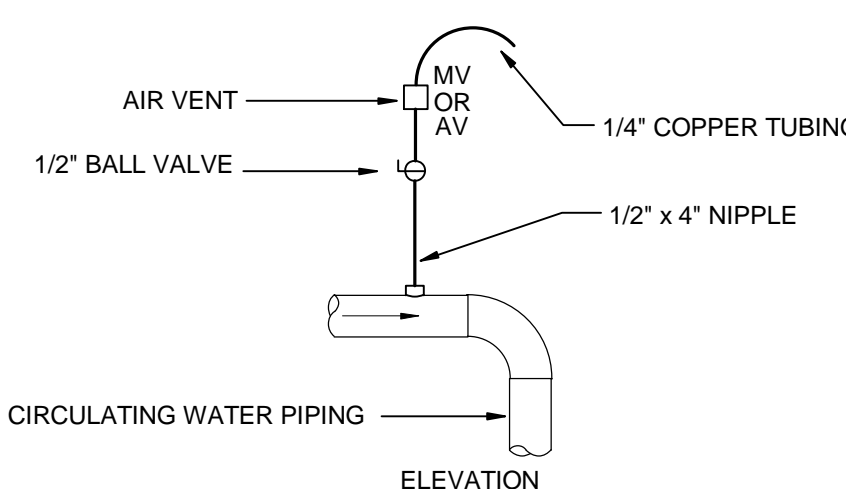
- NOTES:
1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET SO AS TO ACHIEVE ACCURATE AIRFLOW SENSOR READINGS.
 2. A FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 5'-0".
 3. PROVIDE DUCT TRANSITION WHERE SCHEDULED DUCT RUNOUT SIZE TO UNIT IS DIFFERENT THAN TERMINAL UNIT INLET SIZE.
 4. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.

DUCT CONNECTIONS-AIR TERMINAL UNITS



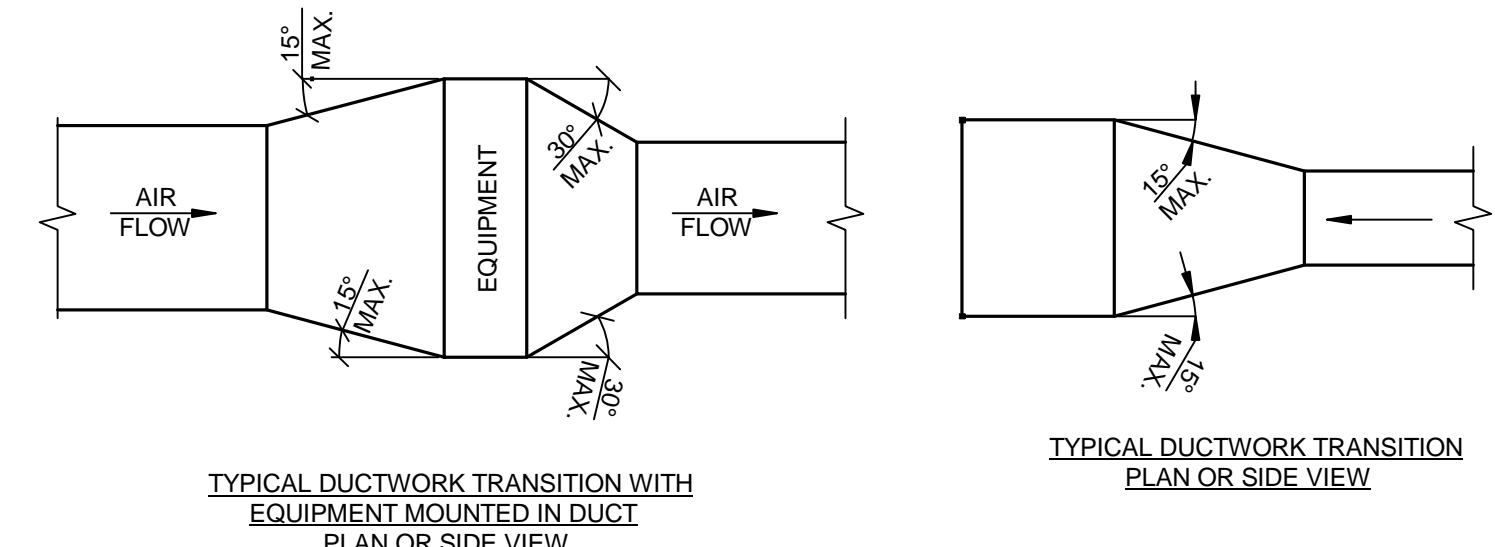
- NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
 2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

VOLUME DAMPER DETAIL



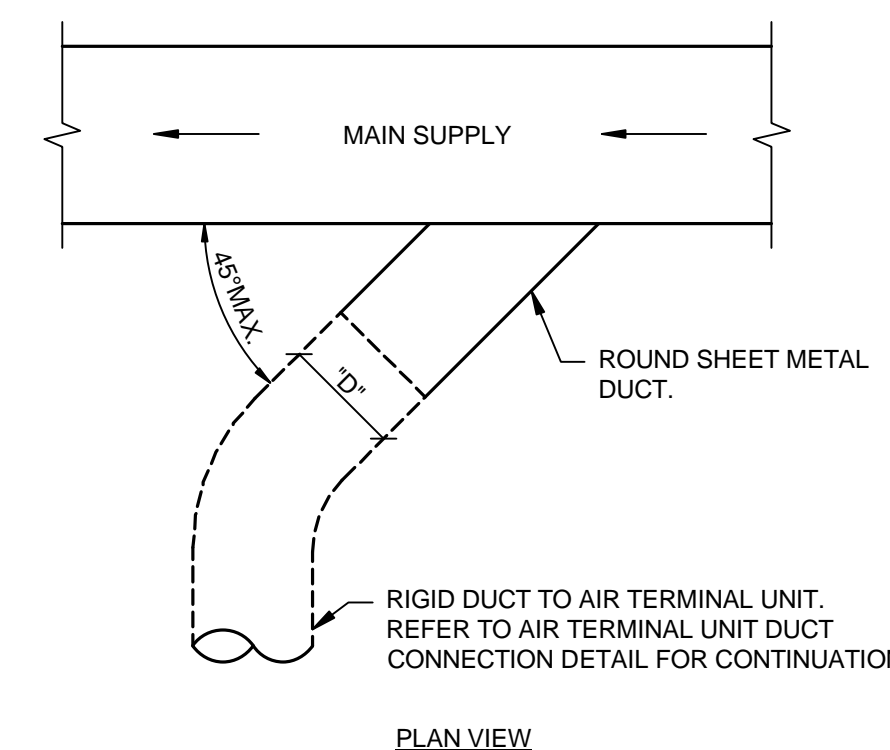
- NOTES:
1. VENT ALL HIGH POINTS AS INDICATED ABOVE.
 2. IF AUTOMATIC AIR VENTS ARE USED, PIPE DISCHARGE TO NEAREST DRAIN.

DRAIN VALVE AND AIR VENT CONNECTIONS (HYDRONIC SYSTEMS)

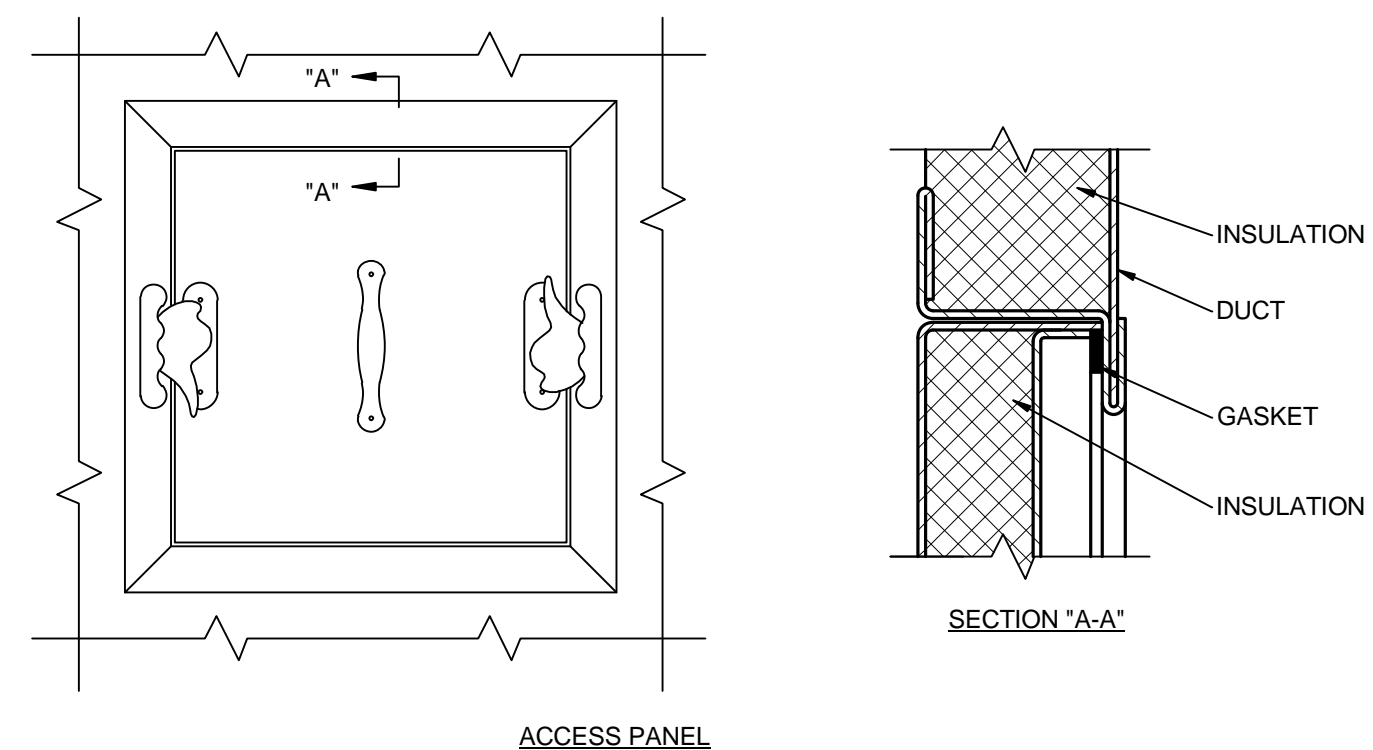


NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS

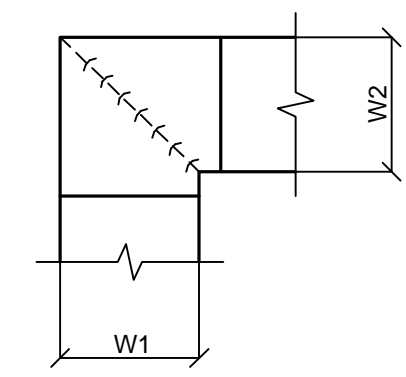


SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS



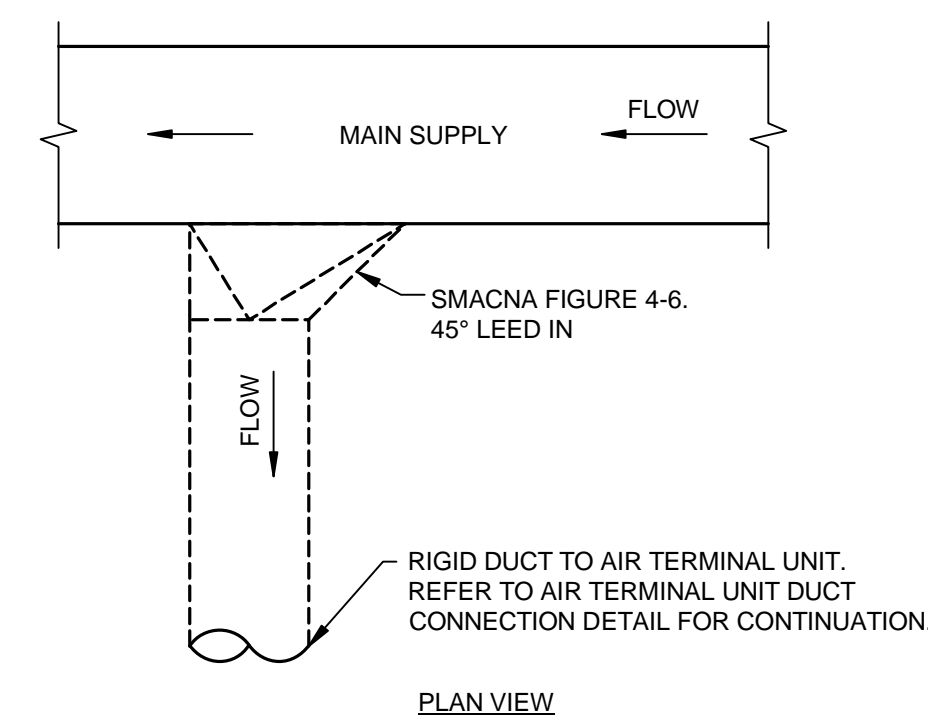
- NOTES:
1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
 2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS.
 3. SEE SMACNA 2005, FIGURE 9-15

ACCESS PANEL AND DOOR DETAIL

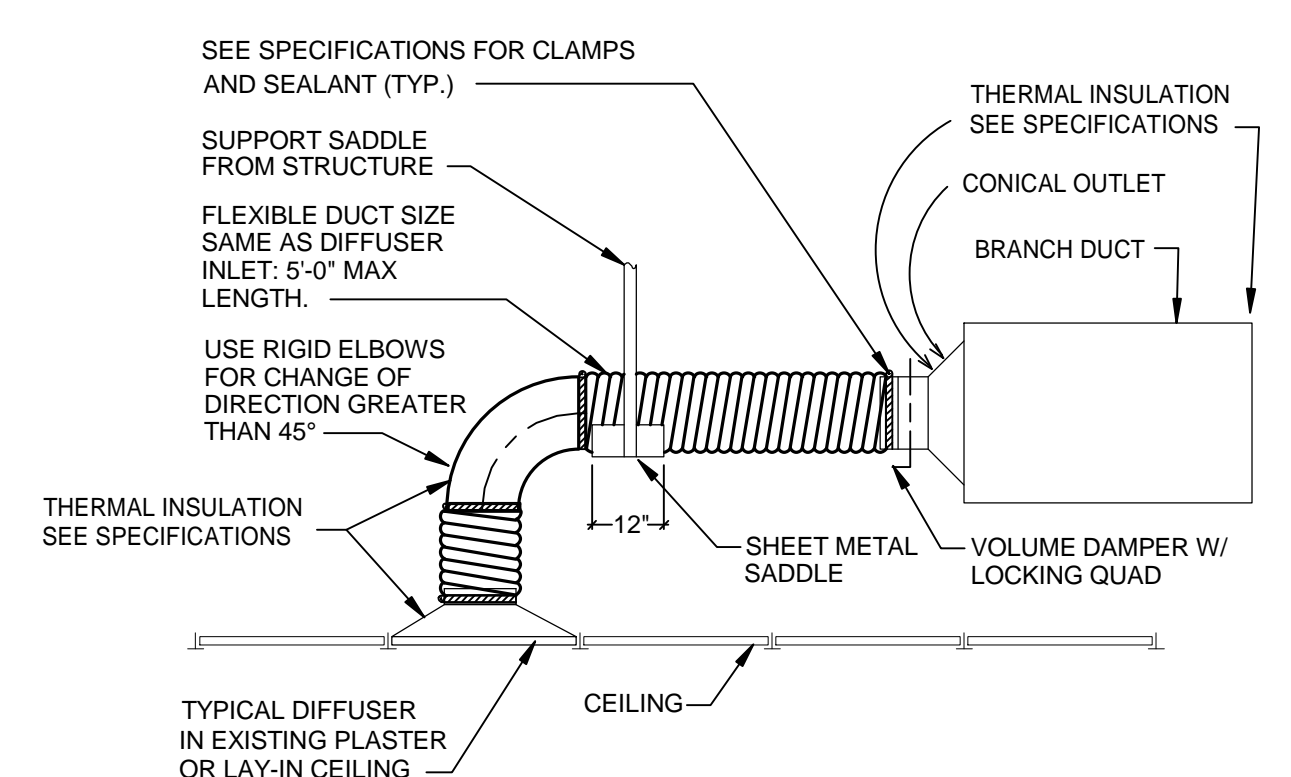


- NOTES:
1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20", VANES SHALL BE DOUBLE VANE TYPE.

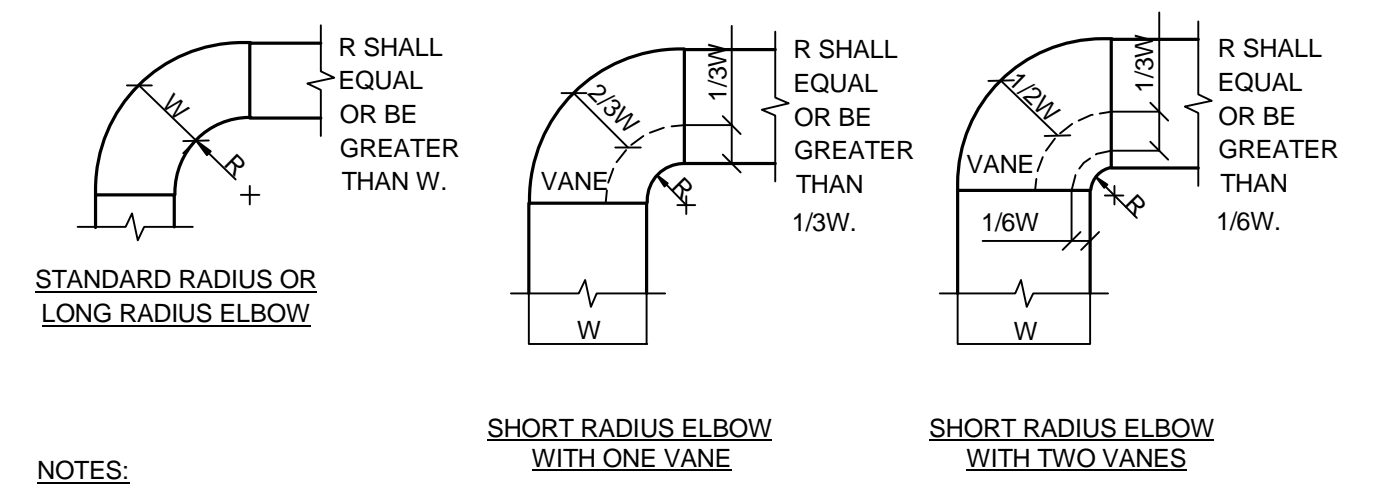
DUCTWORK SQUARE VANE ELBOWS



ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS

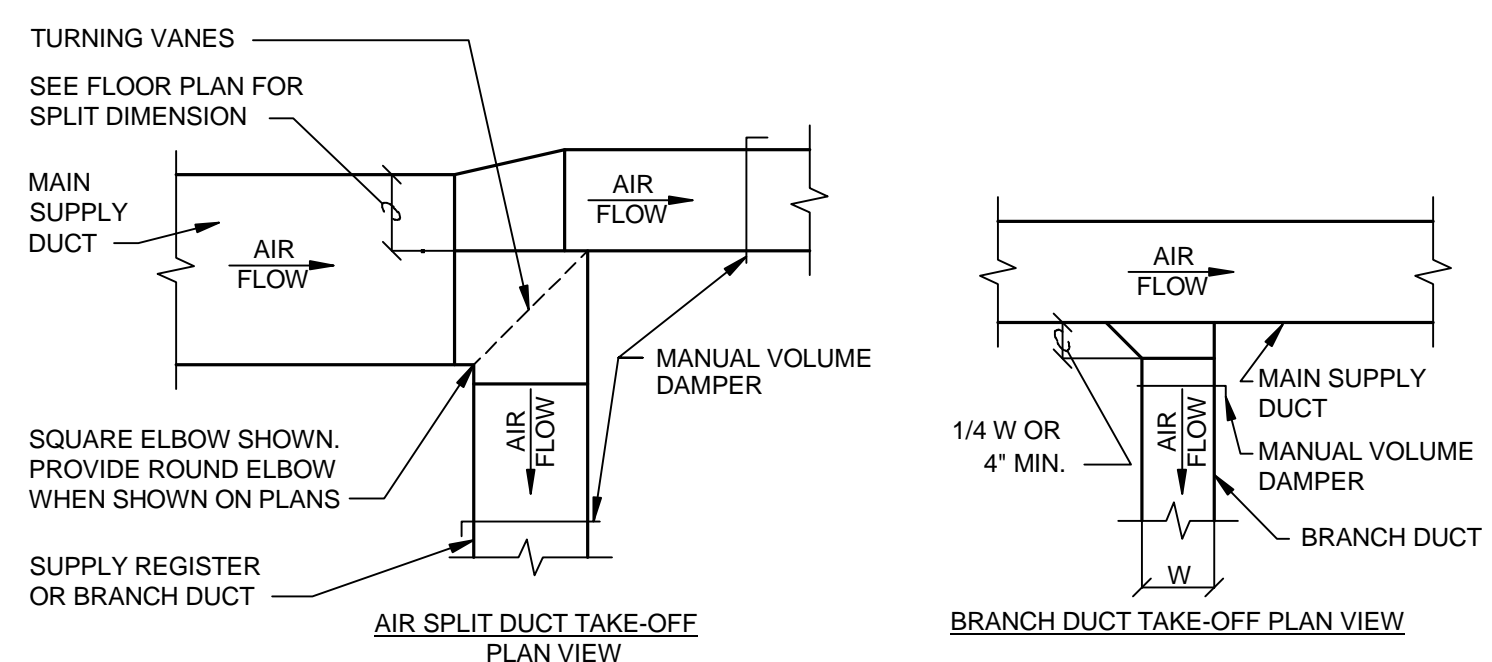


FLEXIBLE AIR DUCT CONNECTOR



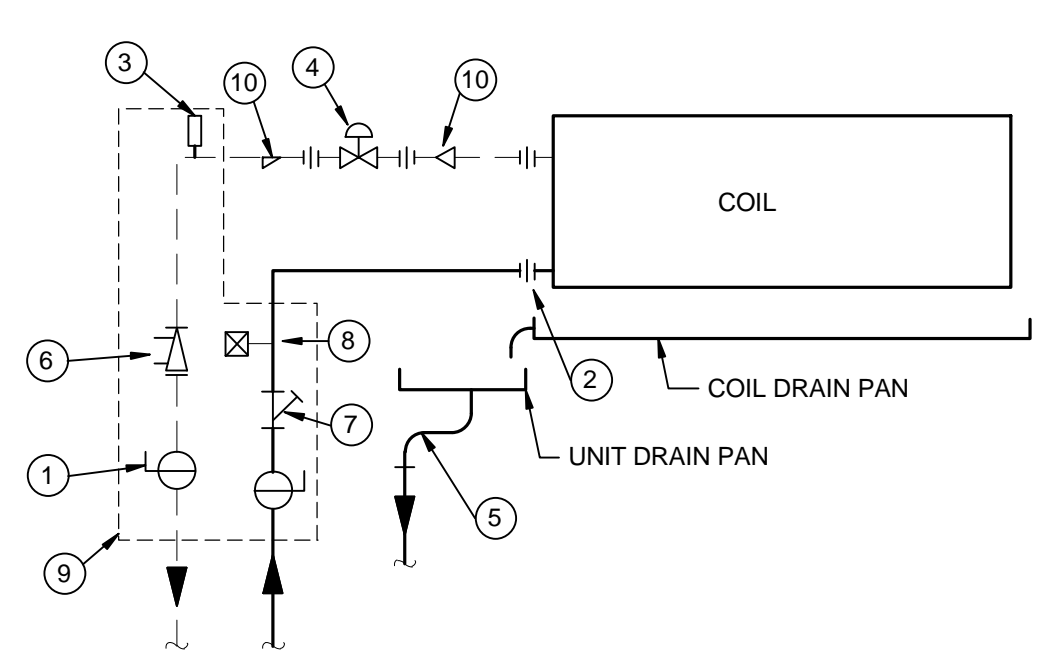
- NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
 2. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

DUCTWORK RADIUS ELBOWS



SUPPLY DUCTWORK TAKE-OFFS

THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME, AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES.



- 1 SHUT-OFF VALVE
- 2 UNION
- 3 MANUAL AIR VENT - AT HIGHEST POINT IN PIPING.
- 4 AUTOMATIC TWO-PORT - NORMALLY OPEN CONTROL VALVE.
- 5 3/4" CONDENSATE DRAIN PIPE. CONNECT TO UNIT PAN WITH FLEXIBLE POLYETHYLENE TUBING.
- 6 FLOW CONTROLLER WITH INTEGRAL PRESSURE-TEMPERATURE TEST PLUG.
- 7 STRAINER
- 8 PRESSURE-TEMPERATURE TEST PLUG.
- 9 SAME SIZE AS RUNOUT PIPING AND FIELD SUPPLIED BY CONTRACTOR.
- 10 REDUCER, IF REQUIRED

FAN-COIL UNIT PIPING COOLING COIL

Revisions

Date

7/18/2014 9:49:20 AM

CONSULTANTS:

STATE OF OHIO
GARY S. EODICE
E-52755
REGISTERED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

Heapy Engineering

MEP Design Technology Planning Commissioning Energy

Nationally Recognized Leader in Sustainability

1400 W Dorothy Lane, Dayton, OH 45409-1310

Ph 937-224-0861 Fax 937-224-5777 www.heapy.com

HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528

Drawing Title

DETAILS

Approved: Project Director

Project Title

REPLACE INDUCTION UNITS

Location Cincinnati, Ohio

Date 07/18/2014

Checked DLE

Drawn DRV

Project No. 539-15-201

Building Number 1

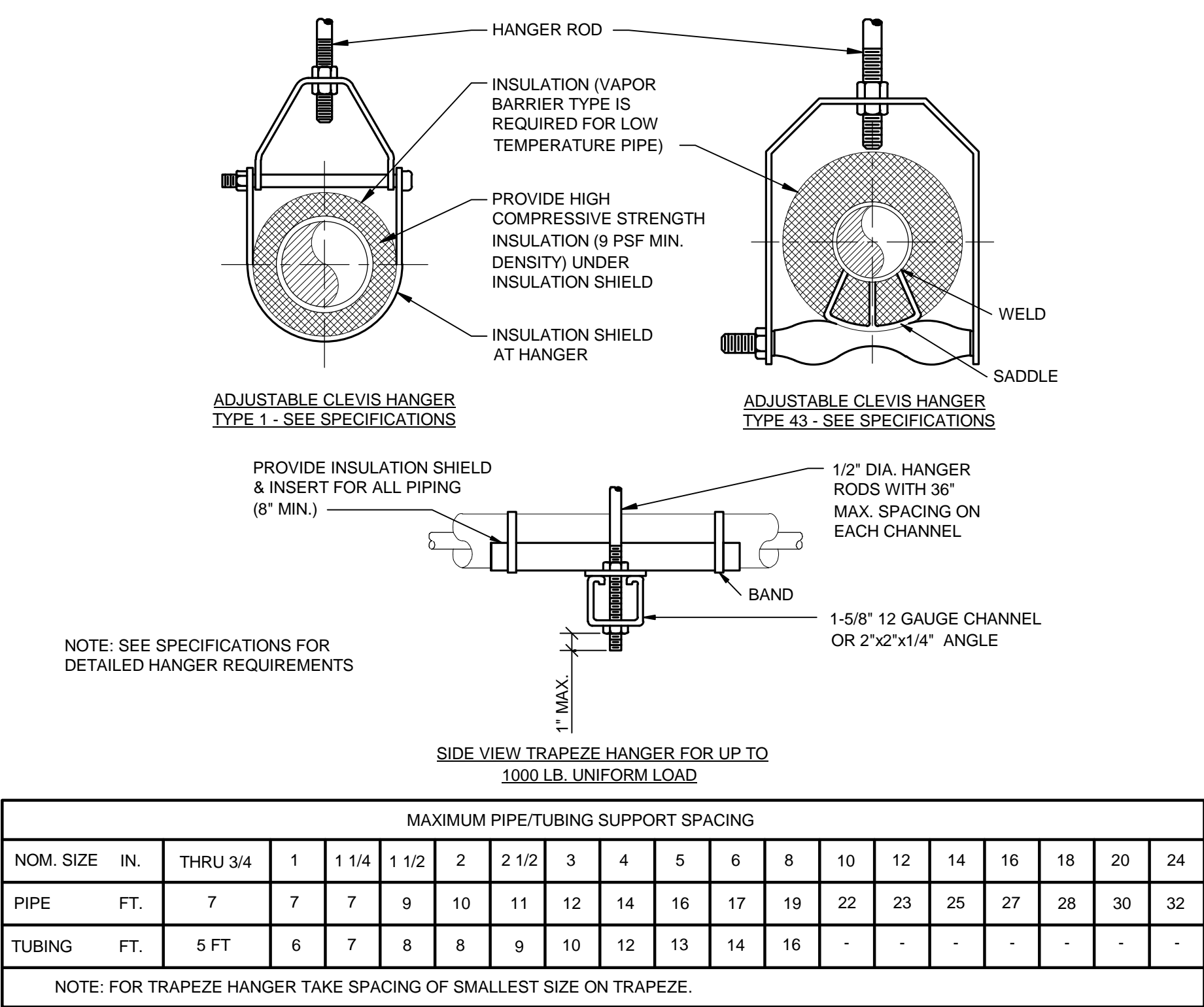
Drawing Number M501

Dwg. 13 of 18

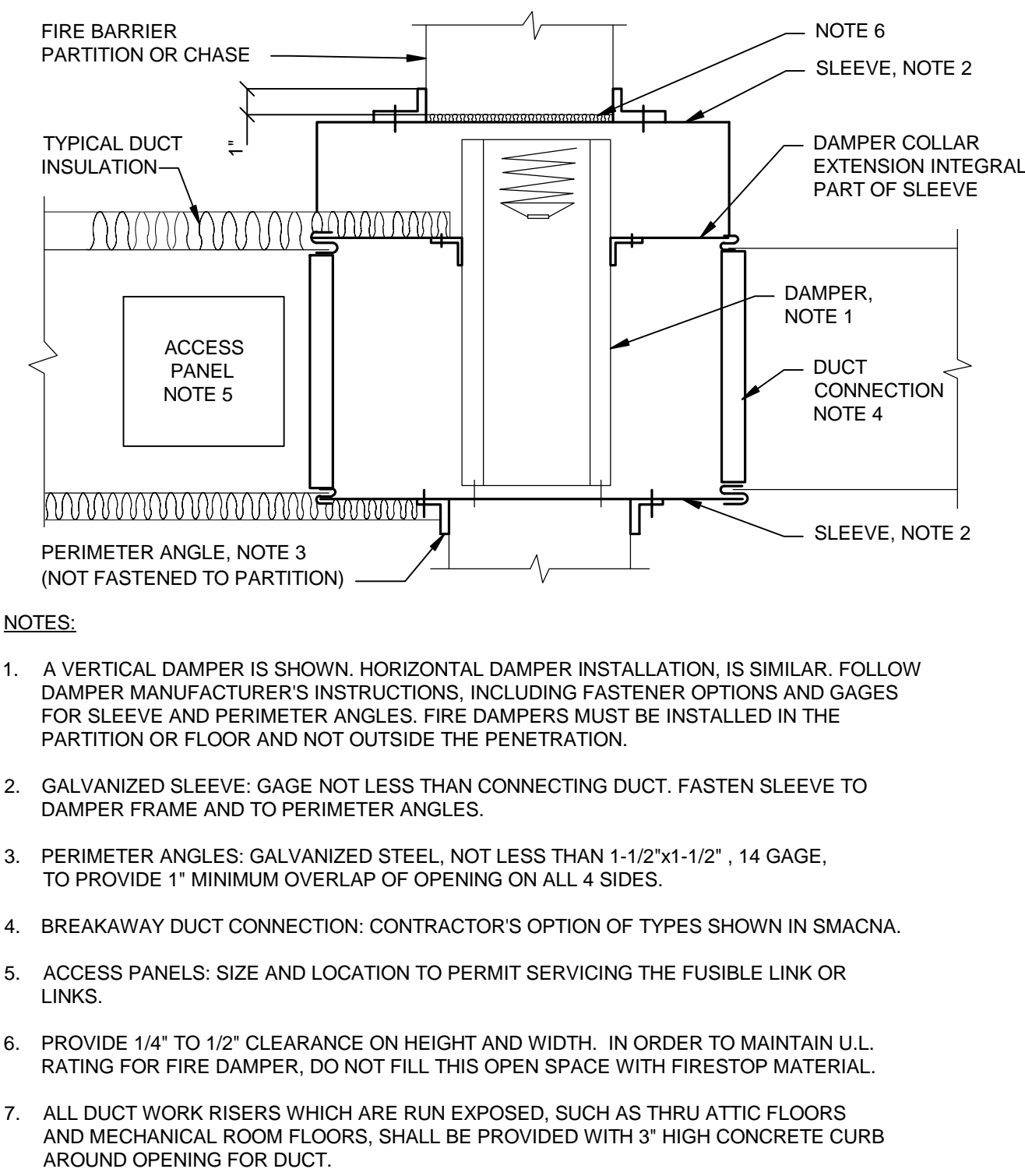
Office of Construction and Facilities Management

Department of Veterans Affairs

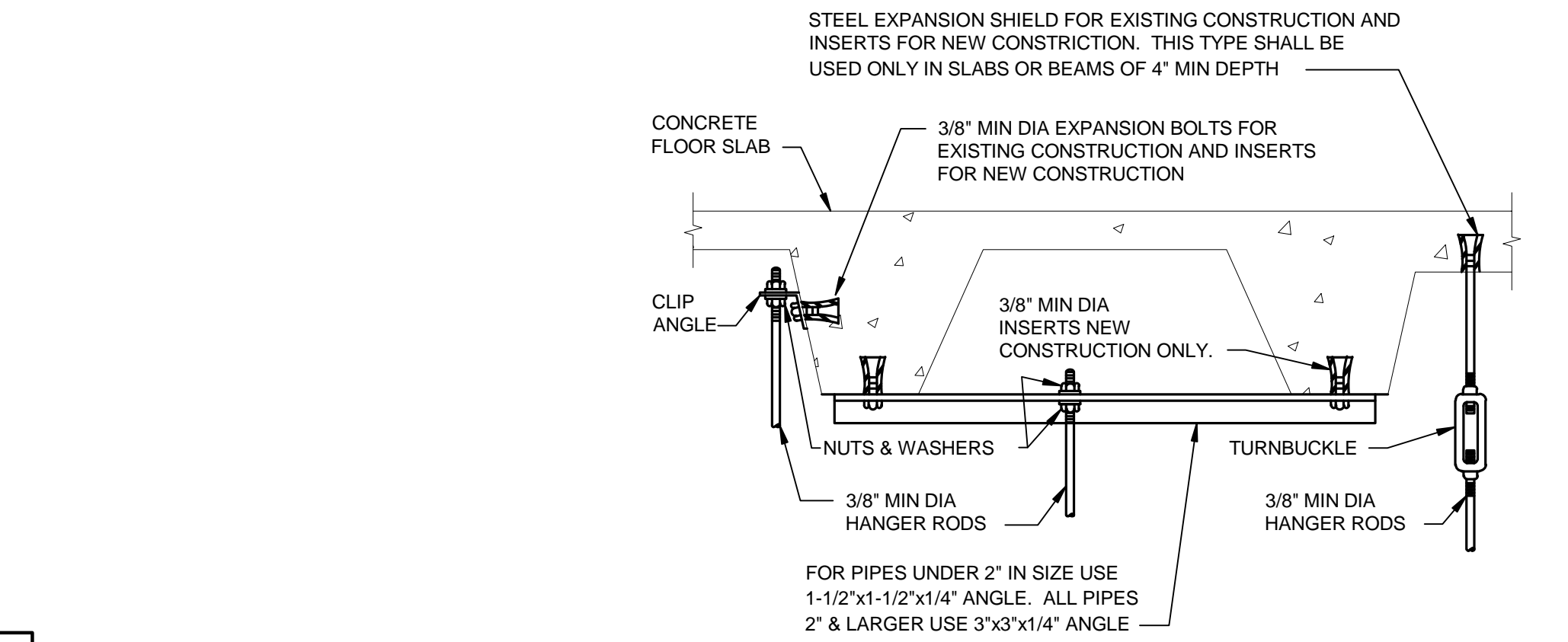
three inches = one foot
one and one-half inches = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-eighth inch = one foot
one-quarter inch = one foot
one-eighth inch = one foot



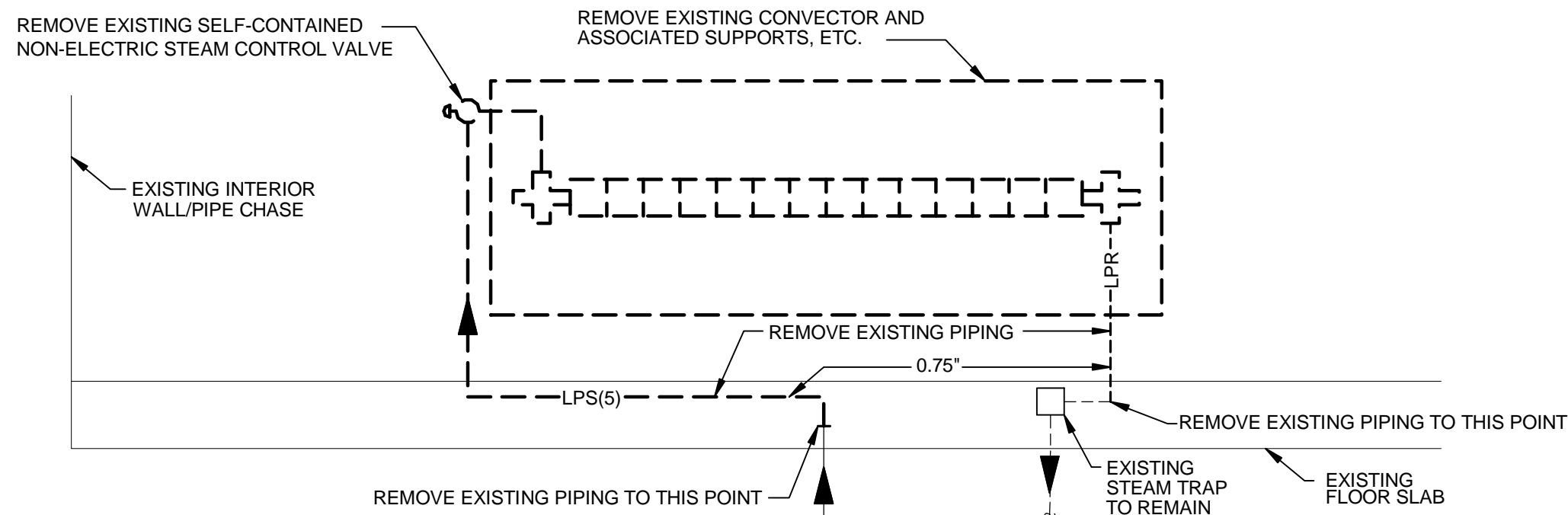
PIPE HANGERS



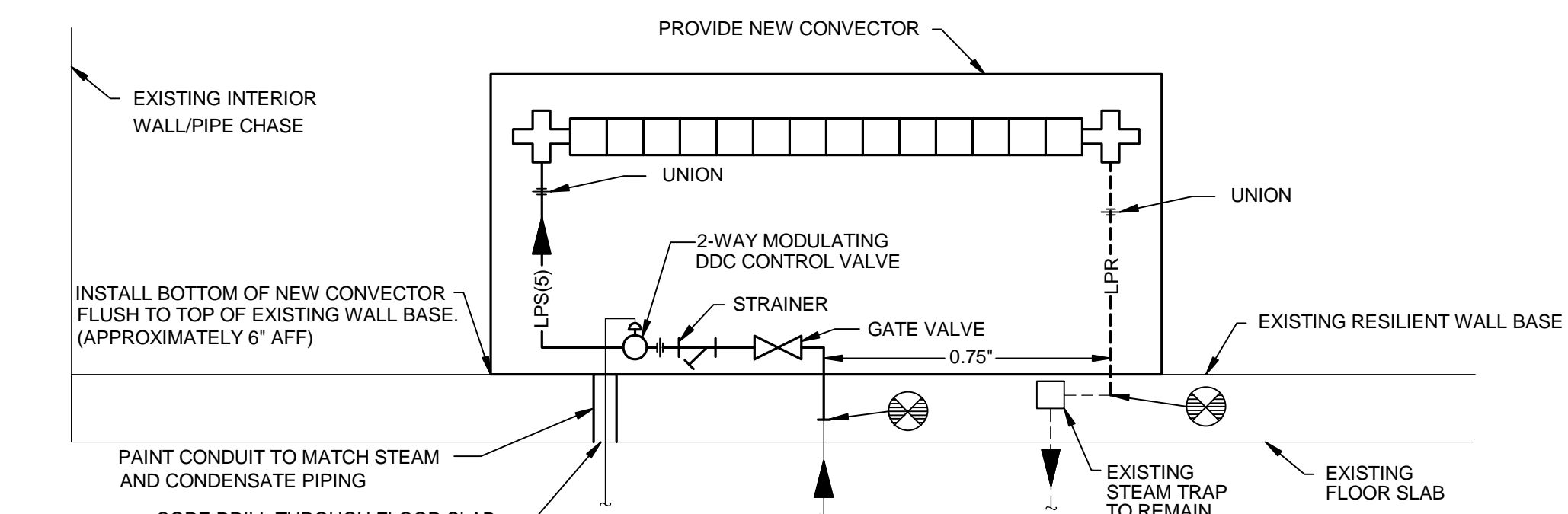
SECTION THRU FIRE DAMPER INSTALLATION



SECURING HANGER RODS IN CONCRETE



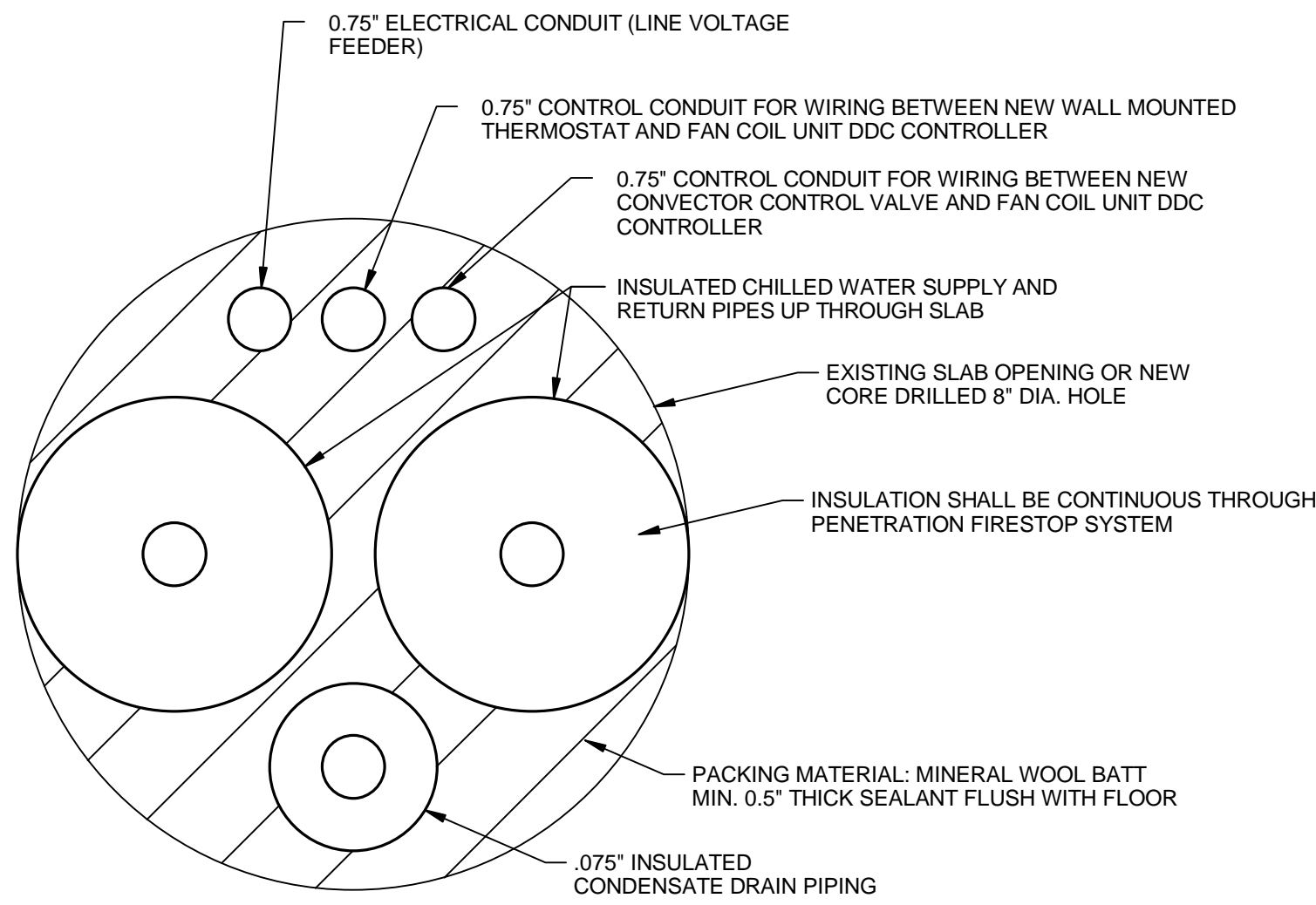
REMOVALS



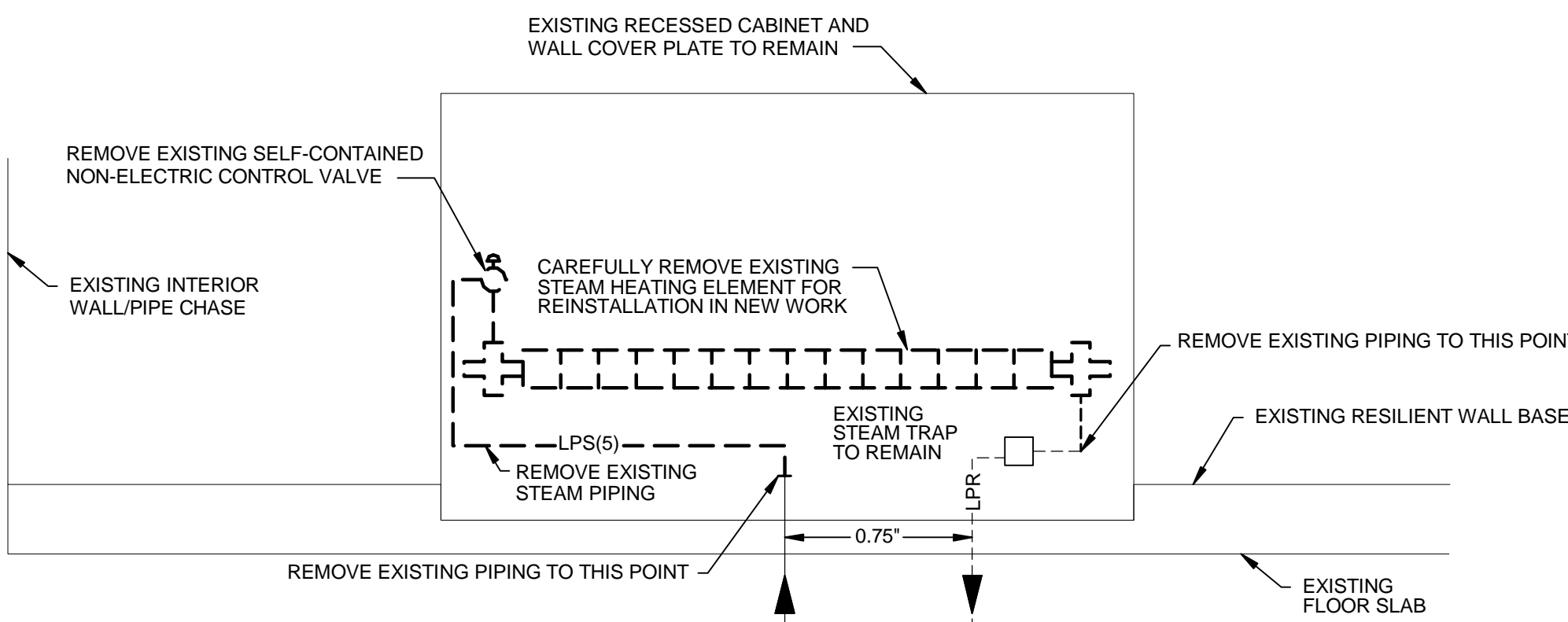
NEW WORK

NOTES: FIRESTOP ALL EXISTING AND NEW FLOOR PENETRATIONS
ALL CORE DRILLING SHALL BE COMPLETE PRIOR TO 8:00 AM TO NOT DISTURB EXAMS IN ADJACENT ROOMS.
CLOSE LOW PRESSURE STEAM LOOP VALVE IN PIPE BASEMENT - COORDINATE LOCATION WITH VA PROJECT ENGINEER. REMOVE PIPING TO POINTS INDICATED ON DETAIL AND INSTALL NEW STEAM SUPPLY PIPE GATE VALVE. ONCE GATE VALVE IS INSTALLED, OPEN STEAM LOOP VALVE IN PIPE BASEMENT AND CONTINUE INSTALLATION OF NEW STEAM CONVECTOR. STEAM LOOP SHALL BE SHUT DOWN FOR NO MORE THAN 2 HOURS.

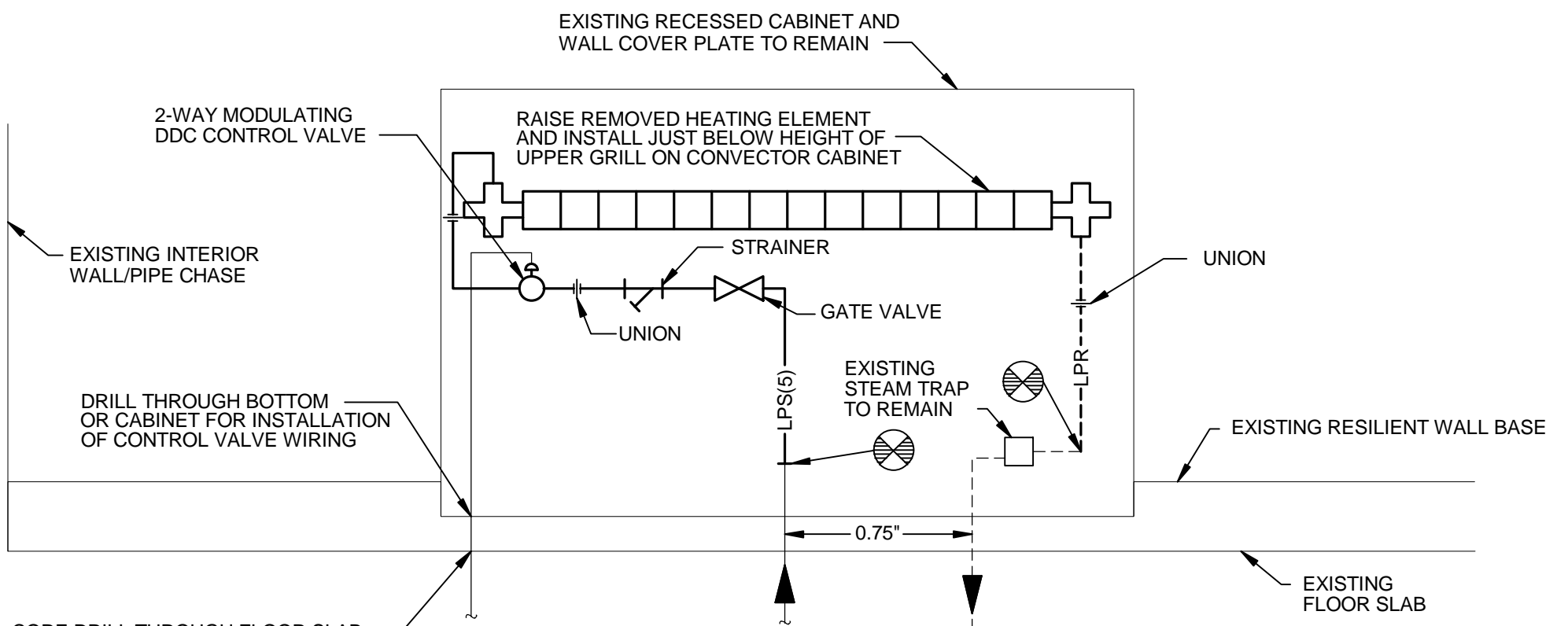
TYPICAL STEAM PIPING CONNECTIONS TO WALL HUNG CONVECTORS



CORE DRILLED SLAB OPENING



REMOVALS



NEW WORK

NOTES: FIRESTOP ALL EXISTING AND NEW FLOOR PENETRATIONS
ALL CORE DRILLING SHALL BE COMPLETE PRIOR TO 8:00 AM TO NOT DISTURB EXAMS IN ADJACENT ROOMS.
CLOSE LOW PRESSURE STEAM LOOP VALVE IN PIPE BASEMENT - COORDINATE LOCATION WITH VA PROJECT ENGINEER. REMOVE PIPING TO POINTS INDICATED ON DETAIL AND INSTALL NEW STEAM SUPPLY PIPE GATE VALVE. ONCE GATE VALVE IS INSTALLED, OPEN STEAM LOOP VALVE IN PIPE BASEMENT AND CONTINUE INSTALLATION OF NEW STEAM CONVECTOR. STEAM LOOP SHALL BE SHUT DOWN FOR NO MORE THAN 2 HOURS.

TYPICAL STEAM PIPING CONNECTIONS TO EXISTING RECESSED CONVECTORS

<div>Revisions</div> <div>7/18/2014 9:49:20 AM</div>		CONSULTANTS:		<div></div>		ARCHITECT/ENGINEERS: <div><div></div><div>Heapy Engineering MEP Design Technology Planning Commissioning Energy <i>Nationally Recognized Leader in Sustainability</i> 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com HEAPY PROJECT No.: 2013-04023 FIRM LICENSE No.: 01528</div></div>		Drawing Title <div>DETAILS</div>		Project Title <div>REPLACE INDUCTION UNITS</div>		Project No. VA Project No. 539-15-201		Office of Construction and Facilities Management 			
						Location <div>Cincinnati, Ohio</div>		Building Number <div>1</div>		Drawing Number <div>M502</div>							
						Date <div>07/18/2014</div>		Checked <div>DLE</div>		Drawn <div>DRV</div>							
								Approved: Project Director		Date <div>07/18/2014</div>		Checked <div>DLE</div>		Drawn <div>DRV</div>		Dwg. 14 of 18	

FULLY SPRINKLERED

A. PROVIDE IDENTIFIED NEUTRAL FOR ALL 120/277V-20A CIRCUITS.
B. PROVIDE PRINTED LABELS ON ALL RECEPTACLE AND SWITCH COVERPLATES INDICATING PANEL AND CIRCUIT NUMBER.
C. EMT CONDUIT SHALL BE 0.75" MINIMUM.
D. CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT/PEDESTALS TIGHT TO STRUCTURE TO ALLOW FOR REQUIRED CLEARANCES AROUND OTHER TRADES ABOVE CEILING EQUIPMENT.
E. (1) EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
F. INCLUDE ALL WORK NECESSARY TO ACCOMMODATE PHASING.
G. PROVIDE NAMEPLATE ID TAG ON FAN COIL INDICATING SOURCE AND CIRCUIT NO.

1. PROVIDE A NEW 120V/20A/1P BREAKER IN EXISTING PANEL (AS INDICATED) FOR NEW WORK.
2. FLOOR SET FAN COIL UNITS PROVIDED BY DIVISION 23. PROVIDE REQUIRED ELECTRICAL CIRCUITRY / ELECTRICAL CONNECTIONS. ACCESS FROM FLOOR BELOW. CONTRACTOR IS REQUIRED TO PROVIDE FLOOR / WALL PROTECTION (AS NEEDED) AND REPLACE ANY DAMAGED CEILING TILES WITH NEW. RETURN AREA BELOW BACK TO ORIGINAL CONDITIONS UPON COMPLETION OF WORK IN THAT SPECIFIC ROOM PRIOR TO MOVING ON TO THE NEXT.
3. EXISTING DCB PANEL LOCATION. CONNECT NEW PANEL, IF REQUIRED, TO EXISTING 120V CIRCUIT PRESENTLY SERVING EXISTING DCB PANEL.

 **FOURTH FLOOR PLAN - POWER**
SCALE: 1/8" = 1'-0"

[illegible]

1. UTILIZE EXISTING SPARE 120V/240V/1P BREAKER (WITHIN PANEL INDICATED) FOR NEW WORK.
2. PROVIDE NEW 120V/240V/1P BREAKER (WITHIN PANEL INDICATED) FOR NEW WORK.
3. FLOOR SET FAN COIL UNITS PROVIDED BY DIVISION 23. PROVIDE REQUIRED ELECTRICAL CIRCUITRY / ELECTRICAL CONNECTIONS. ACCESS FROM FLOOR BELOW. CONTRACTOR IS REQUIRED TO PROVIDE FLOOR / WALL PROTECTION (AS NEEDED) AND REPLACE ANY FLOORING / WALLS BELONGING TO OTHER TRADES. REMOVE ANY ORIGINAL CONDITIONS UPON COMPLETION OF WORK IN THAT SPECIFIC ROOM PRIOR TO MOVING ON TO THE NEXT.
4. EXISTING DDC PANEL LOCATION. CONNECT NEW PANEL, IF REQUIRED, TO EXISTING 120V CIRCUIT PRESENTLY SERVING EXISTING DDC PANEL.

[illegible]