HVAC SYSTEM IMPROVEMENTS IN BUILDING 54-5

DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA, PA.

NEW CUMBERLAND, PENNSYLVANIA 17070-5002

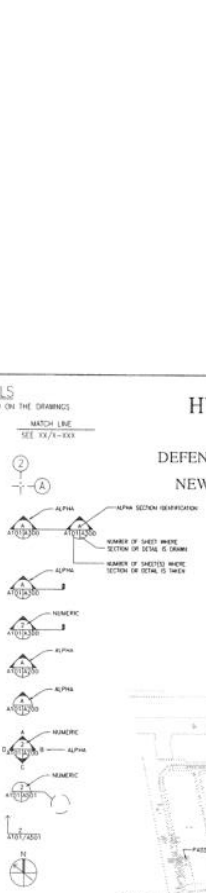
ABBREVIATIONS

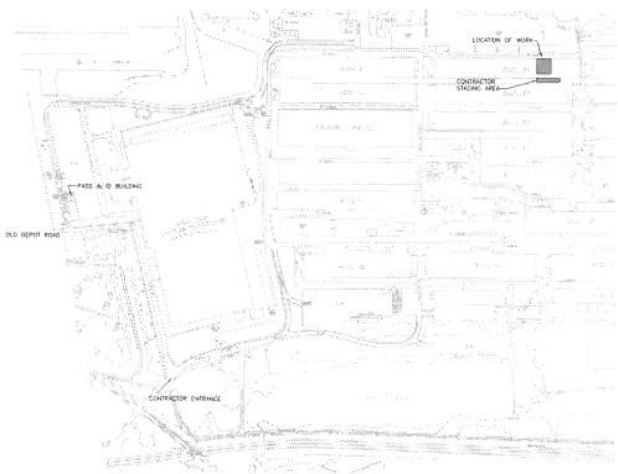
NOTE: NOT ALL ABBREVIATIONS ARE USED ON THE DRAWINGS

ACS. FLR	ACCESS FLOOR
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AR	AS REQUIRED
ASSY	ASSEMBLY
ATCH	ATTACHMENT
BAL	BALANCE
BC	BOTTOM CHORD
BM	BEAM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BS	BOTH SIDES
CL	CENTER LINE
CNCL	CONCEALED
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DFLCT	DEFLECTION
DR	DOOR
DWG	DRAWING
EAR	EXHAUST AIR REGISTER
EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FSTNR	FASTENER
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FRWG	FRAMING
G	GROUND
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GR FL	GROUND FLOOR
GYP	GYPSUM
H	HIGH
HDRL	HANDRAIL
HDW	HARDWARE
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LPT	LOW POINT
LT	LIGHT
LT GA	LIGHT GAUGE
MATL	MATERIAL
MIN	MINIMUM
OC	ON CENTER
OHDR	OVERHEAD DOOR
OPNG	OPENING
PARTN	PARTITION
PRCST	PRECAST
PERIM	PERIMETER
PL	PLATE
PNL	PANEL
PT	PAINT
PWR	POWER
RC	REINFORCED CONCRETE
RCVR	RECEIVER
REINF	REINFORCE
REPL	REPLACEMENT
SQ	SQUARE
SHT	SHEET
SHT MTL FLASH	SHEET METAL FLASHING
SM	SHEET METAL
SPCL	SPECIAL
STL	STEEL
STRUCT	STRUCTURAL
SW	SWITCH
TERM	TERMINATION
TO	TOP OF
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TRTD	TREATED
TYP	TYPICAL
T&B	TOP & BOTTOM
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VF	VERIFY IN FIELD
VRFY	VERIFY
VWC	VINYL WALL COVERING
WD	WOOD

REFERENCE SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THE DRAWINGS





N

SITE PLAN

NOT TO SCALE

N

LOCATION PLAN

NOT TO SCALE

INDEX OF DRAWINGS

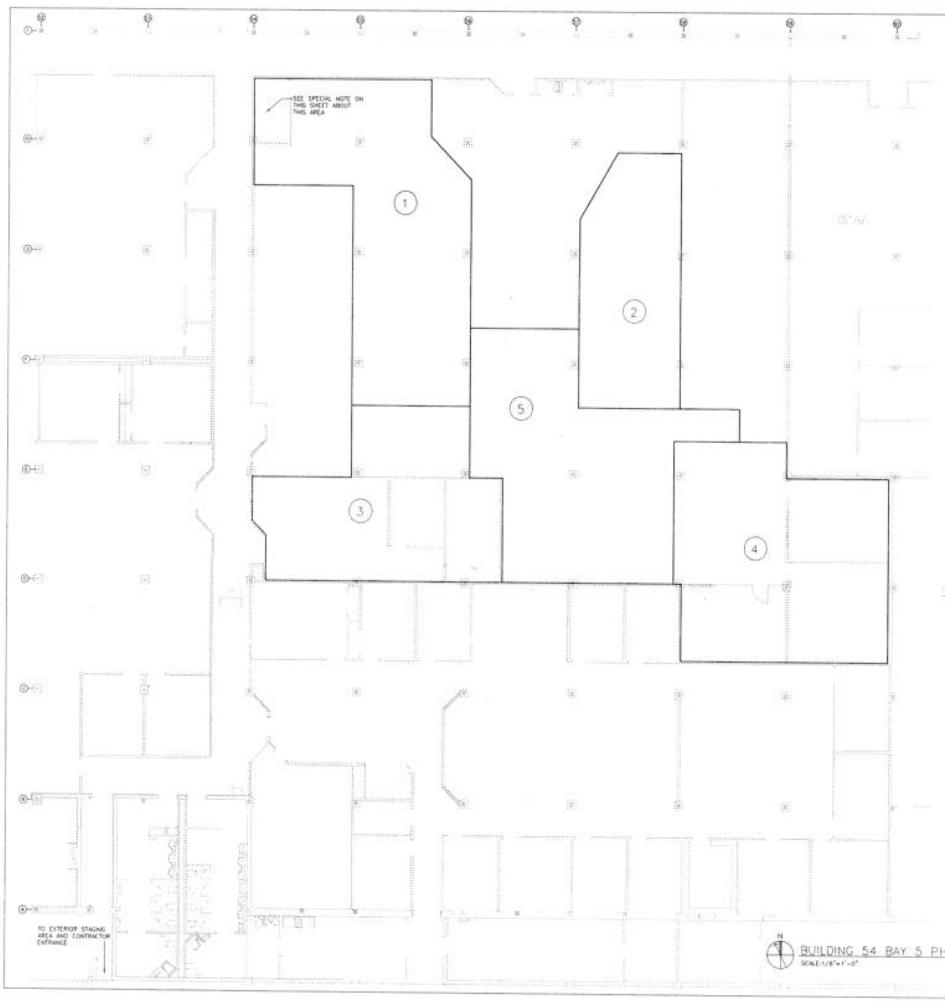
SHEET	DRAWING NO.	DESCRIPTION
1	G-001	COVER SHEET, NOTES AND DRAWING INDEX
2	G-101	PHASING PLAN
3	M-101	BUILDING 54 BAY 5 HVAC DEMOLITION PLAN
4	M-102	BUILDING 54 BAY 5 NEW HVAC PLAN, NOTES AND SCHEDULE
5	M-103	BUILDING 54 BAY 5 STEAM PIPING PLAN AND STRUCTURAL PLAN
6	M-104	BUILDING 54 BAY 5 (AP1) HVAC-3 BALANCING PLAN
7	M-501	MECHANICAL AND STRUCTURAL DETAILS

GENERAL NOTES:

1. ALL CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REGULATIONS, 29 CODE OF FEDERAL REGULATIONS (CFR) 1910/1926, ALL APPLICABLE SUBPARTS, AND NFPA REGULATIONS.
2. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE GOVERNMENT.
3. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE AT ALL TIMES IN A MANNER THAT MINIMIZES THE DEPOSITION OF ANY CONSTRUCTION MATERIALS OR DEBRIS ONTO ADJACENT BUILDING AREAS AND/OR WALKWAYS. THE WORK SITE SHALL BE MONITORED AND CLEANED/SWEPT ON A CONTINUAL BASIS AS REQUIRED. CLEANUP ACTIVITIES SHALL NOT BE LEFT TO BE PERFORMED AT THE END OF EACH WORK DAY.
4. DAMAGES TO THE EXISTING BUILDING AS A RESULT OF THIS PROJECT SHALL BE IMMEDIATELY REPORTED TO THE COR. DAMAGES SHALL BE REPAIRED PER THE GOVERNMENTS DIRECTION AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. FIRE ALARMS, FIRE EXTINGUISHERS, ELECTRICAL PANELS, EXIT WAYS AND MEANS OF EGRESS, INCLUDING AISLES WHICH LEAD TO EXITWAYS, SHALL BE KEPT OPEN TO BUILDING OCCUPANTS AT ALL TIMES.
6. ESTABLISH A SAFETY ZONE AT INTERIOR AND EXTERIOR LOCATIONS, AS DIRECTED BY THE COR. THE SPECIFIED LOCATIONS SHALL BE VISIBLY MARKED AND CORDONED OFF, ALONG THEIR PERIMETER, USING YELLOW CAUTION TAPE, MOUNTED AT STANDARD HANDRAIL HEIGHT. THE LOCATIONS SHALL INCLUDE THE FOLLOWING: DUMPSTER LOCATION(S), AREAS FOR OFF LOADING, STAGING, AND INSTALLATION. DUMPSTER LOCATIONS SHALL BE COORDINATED WITH COR.
7. LIFTS, STAGING SCAFFOLDING AND EQUIPMENT SHALL NOT OBSTRUCT THE OFFICE OPERATION DURING THE HOURS OF OPERATION.
8. ALL HOT WORK, CONDUCTED ON SITE, REQUIRES A HOT WORK PERMIT ISSUED BY THE FIRE DEPARTMENT BEFORE WORK STARTS. HOT WORK PERMITS ARE ISSUED DAILY FOR THAT DAY. THERE ARE NO LONG TERM PERMITS.

NO	REVISIONS	DATE

APPROVED BY		DEFENSE LOGISTICS AGENCY DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH NEW CUMBERLAND, PA 17070-5002		
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND ACCUPITY			
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH	HVAC IMPROVEMENTS IN BUILDING 54-5		
FIRE PROTECTION BRANCH	OFC. OF SEC. AND COMM. INFO. SERVICES	COVER SHEET, NOTES AND DRAWING INDEX		
INDUSTRIAL ENGINEER	USDR	DESIGNED BY ES	CHECKED BY	PROJECT NO. 5599
MAINTENANCE OPERATION BRANCH		DRAWN BY ELG	CHL CHKR ELEC CHKR	DRAWING NO. G-001
		SCALE AS SHOWN	MECH CHKR ARCHITECT CIVIL CHKR	SHEET 1 OF 7
PLAN NUMBER	FACILITIES ENGINEER			DATE FEB 2008

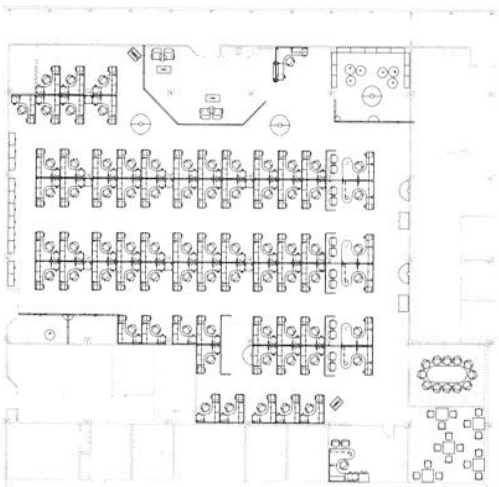


BUILDING 54 BAY 5 PHASING PLAN
SCALE: 1/8"=1'-0"

PHASING NOTES

1. THE WORK SHALL BE COORDINATED SUCH THAT SUFFICIENT AIR CONDITIONING AND OR HEATING IS ALWAYS AVAILABLE TO ALLOW CONTINUOUS WORK OPERATION.
2. WORK AREAS INDICATED ON THIS PLAN ARE THE MAXIMUM ALLOWABLE AREA TO BE WORKED WITHIN AT ONE TIME. WORK MUST BE COMPLETED IN ONE AREA PRIOR TO START OF WORK IN NEXT AREA. THE CONTRACTOR MUST PROVIDE DUST COVER OR PROTECTIVE ENCLOSURE TO PROTECT GOVERNMENT MATERIAL LOCATED IN THE WORK AREA. DURING THE CONSTRUCTION PERIOD AND ISOLATE EACH AREA. THE CONTRACTOR SHALL REMOVE THE PROTECTIVE COVER, CLEAN THE WORK AREA AND RELOCATE ANY MOVABLE FURNITURE/ EQUIPMENT TO ITS ORIGINAL LOCATION OVERNIGHT BEFORE LEAVING THE PREMISES. THE CONTRACTOR MUST SUBMIT HIS METHOD OF WORK PERFORMANCE FOR THE APPROVAL OF THE CONTRACTING OFFICER. NO WORK WILL BE PERMITTED TO START UNTIL THIS PLAN IS APPROVED. WORK AREAS MAYBE REDUCED WHERE POSSIBLE.
3. ACCESS TO EXISTING RESTROOMS SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO EXTERIOR MUST BE MAINTAINED FOR FIRE EXITS.
4. ALL BARRIERS SHALL BE REMOVED BY THE CONTRACTOR WHEN WORK IS COMPLETED IN EACH AREA AND NO LONGER NEEDED AT THE SITE.

SPECIAL NOTE:
DURING THE WORK IN THIS AREA, THE CONTRACTOR MUST PROVIDE NECESSARY DUST COVER TO MAINTAIN THIS ROOM FREE OF DUST. THE CONTRACTOR SHALL CLEAN THE ROOM, RELOCATE ANY CEILING TILE AND RESTORE THIS ROOM TO IT'S ORIGINAL CONDITION BEFORE LEAVING THE PREMISES. THE CONTRACTOR SHALL KEEP THE DOOR OF THIS ROOM CLOSED DURING THE ENTIRE CONSTRUCTION PERIOD.



BUILDING 54 BAY 5 EXISTING FURNITURE PLAN
SCALE: 3/32"=1'-0"

KEY PLAN

NO.	REVISIONS	DATE

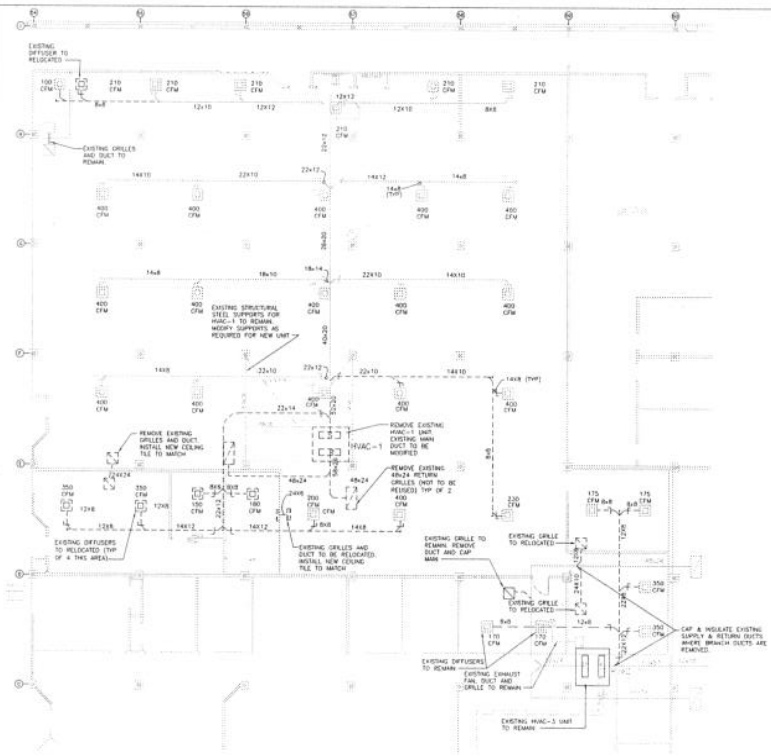
APPROVED BY	
CONSTRUCTIONS REPRESENTATIVE	OFFICE OF COMMAND SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	OFC OF TEL, INF SYMS, INFO SYSTEMS
INDUSTRIAL PROGRAMS	JGPP
MAINTENANCE OPERATION BRANCH	
THE INTERIOR	PLANNING ENGINEER

DEFENSE LOGISTICS AGENCY
DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

HVAC IMPROVEMENTS IN BUILDING 54-5

PHASING PLAN

DESIGNED BY	CHECKED BY:	PROJECT NO.
ES		35389
DRAWN BY	CIVIL CHIEF	DRAWING NO.
ELG	ELEC CHIEF	S-101
SCALE	MECH CHIEF	SHEET 2 OF 2
AS SHOWN	ARCHITECT	DATE
	SUPR ENGR	FEB 2008



BUILDING 54 BAY 5 HVAC DEMOLITION PLAN

SCALE 1/8"=1'-0"

LEGEND

- EXISTING DUCT TO REMAIN
- EXISTING DUCT TO BE REMOVED
- EXISTING VOLUME DAMPER
- EXISTING DIFFUSER TO REMAIN
- EXISTING DIFFUSER TO BE RELOCATED
- EXISTING RETURN AIR GRILLE TO BE RELOCATED SIZE VARIES
- EXISTING THERMOSTAT TO BE REMOVED

KEY PLAN

NO	REVISIONS	DATE

APPROVED BY

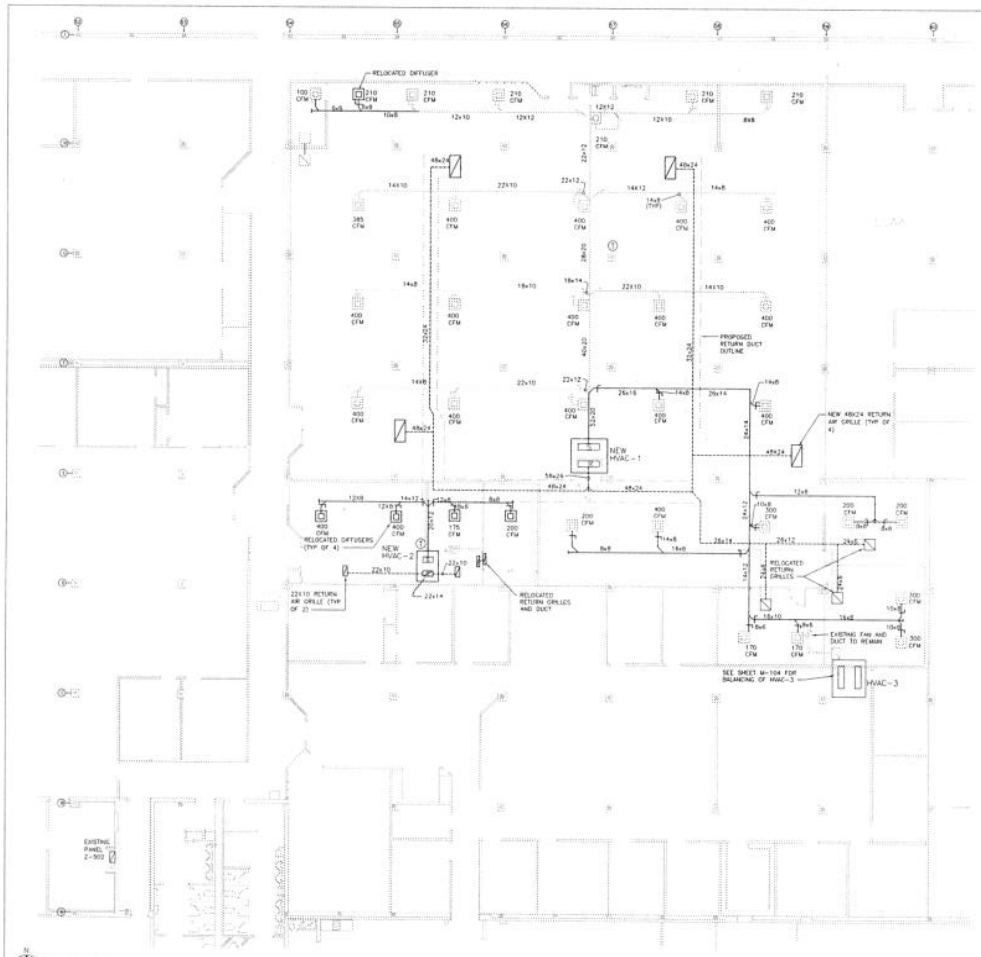
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	OFC. OF TEL. AND COMM. INFO. SYSTEMS
INDUSTRIAL ENGINEERS	DDP
MAINTENANCE OPERATION BRANCH	
DLA PROGRAM	HOLMES CHOWDER

DEFENSE LOGISTICS AGENCY
DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

HVAC IMPROVEMENTS IN BUILDING 54-5

BUILDING 54 BAY 5 HVAC DEMOLITION PLAN

DESIGNED BY	CHECKED BY	PROJECT NO.
ES		3599
DRAWN BY		DRAWING NO.
ELG		M-101
SCALE		SHEET 3 OF 7
AS SHOWN		DATE FEB 2008



BUILDING 54 BAY 5 NEW HVAC PLAN
SCALE 1/8"=1'-0"

GENERAL A/C NOTES:

1. NEW A/C UNITS SHALL BE 208V, 3 PHASE, BELT DRIVE MOTOR, ROOFTOP UNIT WITH ECONOMIZER. UNIT SHALL HAVE BUILT-IN FRESH AIR DUCT AND RELIEF DAMPERS FOR OFF SEASON COOLING. PROVIDE NEW ROOF CURB.
2. THE INSTALLATION OF A/C SYSTEMS SHALL COMPLY WITH N.F.P.A. 90-A.
3. ALL DUCTWORK SHALL BE METAL UNLESS NOTED OTHERWISE.
4. ALL JOINTS IN DUCTWORK SHALL BE AIR TIGHT.
5. AIR DEFLECTORS (TURNING VANES) SHALL BE PROVIDED AT ALL DUCT 90 DEGREE ELBOWS.
6. THE HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH AABC OR NEBB AS OUTLINED IN THE SPECIFICATIONS.
7. SUPPLY AIR DUCT SHALL BE INSULATED ON THE EXTERIOR WITH 2" FIBERGLASS INSULATION WITH JACKET.
8. RETURN AIR DUCT SHALL BE INSULATED WITH 1" RIGID INTERIOR INSULATION.
9. THE NEW STEAM HEATING COIL SHALL BE NON-FREEZE TYPE AND SHALL BE INSTALLED INSIDE THE SUPPLY DUCT.
10. THE NEW RETURN GRILLES SHALL BE ALUMINUM WITH 1/2"x 1/2"x 1/2" GRID CORE FACE.
11. MODIFY EXISTING STEEL SUPPORTS AS REQUIRED TO INSTALL NEW HVAC-1 UNIT. REFER TO DETAILS ON SHEET M-501 FOR ROOF CURB AND FRAMING DETAILS.
12. CONTRACTOR SHALL MODIFY EXISTING SPRINKLER LINES AS REQUIRED WITHOUT ELIMINATING ANY HEADS, IF NECESSARY TO ALLOW FOR DUCTWORK INSTALLATION.
13. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING ABOVE SUSPENDED CEILING.

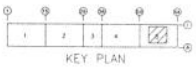
		NET COOLING CAPACITIES AT 95°F AMBIENT TEMP AND 80°F EDB, 67°F EWB		HEATING COIL CAPACITY (BTUH) AT 5 PSIG STEAM		EXTERNAL PRESSURE	
UNIT NO.	CFM	UNIT HP/AMP LOAD	OA	SENSIBLE HEAT BTUH	TOTAL HEAT BTUH	BTUH	EDB °F	IN. WG	REMARKS
HVAC-1	9600		1600	195,000	264,000	150,000	58.3	1.10	NEW
HVAC-2	1175		100	24,800	34,900	15,000	64	0.6	NEW
HVAC-3	6400		960	151,000	223,000	–	–	–	EXISTING

ELECTRICAL NOTES

1. FOR NEW UNIT (HVAC-1), PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING PANEL Z502 AS RECOMMENDED BY THE MANUFACTURER FOR THE NEW UNIT PROVIDED. REUSE EXISTING WIRING/CONDUIT FROM EXISTING UNIT BEING REPLACED. EXISTING PANEL Z502 IS A CHALLENGER TYPE PRL4B PANEL, 208/120V 3P.
2. FOR NEW UNIT (HVAC-2), PROVIDE AND INSTALL THE NECESSARY BRANCH CIRCUIT WIRING FROM THE NEW HVAC UNIT TO EXISTING PANEL Z502. WIRING AND CONDUIT SIZES SHALL BE BASED ON THE MANUFACTURERS RECOMMENDED OVERCURRENT PROTECTION (CIRCUIT BREAKER) FOR THE NEW HVAC UNIT. ALSO, PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING PANEL Z502 AS RECOMMENDED BY THE MANUFACTURER FOR THE UNIT PROVIDED. EXISTING PANEL Z502 IS A CHALLENGER TYPE PRL4B PANEL, 208/120V 3P.
3. PROVIDE A GFCI RECEPTACLE AND DISCONNECT SWITCH AT THE UNIT.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. PROVIDE AND INSTALL ALL THE NECESSARY WORK FOR A COMPLETE AND USABLE SYSTEM.
6. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH OTHER DRAWINGS AND WITH THE COR.

LEGEND

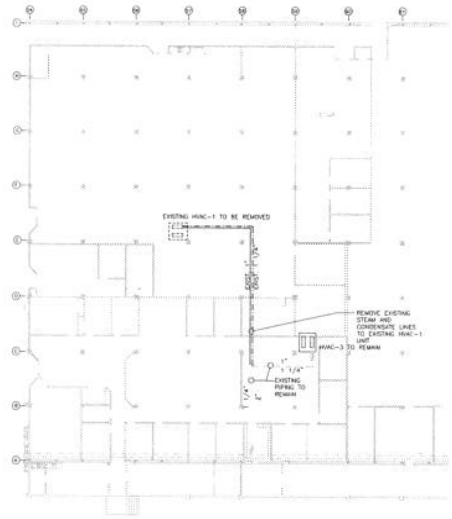
- EXISTING DUCT TO REMAIN
- NEW RETURN DUCT
- NEW DUCT
- EXISTING VOLUME DAMPER
- NEW VOLUME DAMPER
- EXISTING DIFFUSER TO REMAIN
- RELOCATED DIFFUSER
- NEW RETURN AIR GRILLE(SIZE VARIES-SEE DRAWING) 1/2"x1/2"x1/2" GRID
- (T) NEW THERMOSTAT



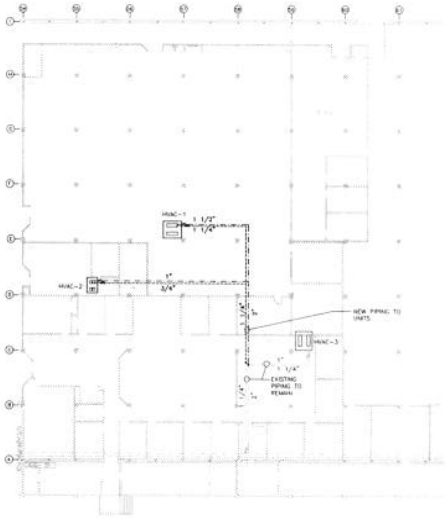
KEY PLAN

NO	REVISIONS	DATE

APPROVED BY:		DEFENSE LOGISTICS AGENCY DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH NEW CUMBERLAND, PA 17070-5002	
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY		
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH	HVAC IMPROVEMENTS IN BUILDING 54-5	
FIRE PROTECTION BRANCH	OFC OF PC, AND COMM INFO SYSTEMS	BUILDING 54-5 NEW HVAC PLAN NOTES AND SCHEDULE	
INDUSTRIAL HYGIENIST	DDDP	DESIGNED BY: ES	CHECKED BY:	PROJECT NO. 3599
		DRAWN BY: ELG	CIVIL BRANCH	DRAWING NO. M-102
MAINTENANCE OPERATION BRANCH		SCALE: AS SHOWN	ELEC. BRANCH MECH. BRANCH ARCHITECT APPR. BRANCH	SHEET 4 OF 7
FOR REVIEW	FACILITIES ENGINEER			DATE FEB 2008



BUILDING 54 BAY 5 STEAM PIPING DEMOLITION PLAN
SCALE: 1/16"=1'-0"

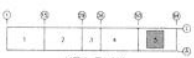


BUILDING 54 BAY 5 NEW STEAM PIPING PLAN
SCALE: 1/16"=1'-0"

LEGEND

- EXISTING STEAM SUPPLY LINE
- EXISTING CONDENSATE RETURN LINE
- NEW STEAM SUPPLY LINE
- NEW CONDENSATE RETURN LINE
- NEW VALVE

GENERAL PIPING NOTES:
1. PIPE SHALL BE SLOPED AT A MINIMUM OF 1" TO 40' IN THE DIRECTION OF THE MAIN CONDENSATE LINE.
2. ALL STEAM AND CONDENSATE PIPING SHALL BE INSULATED.
3. STEAM SUPPLY PIPE SHALL BE SCHEDULE 40 BLACK STEEL.
4. CONDENSATE RETURN PIPE SHALL BE SCHEDULE 80 BLACK STEEL.
5.



KEY PLAN

NO	REVISIONS	DATE

APPROVED BY:

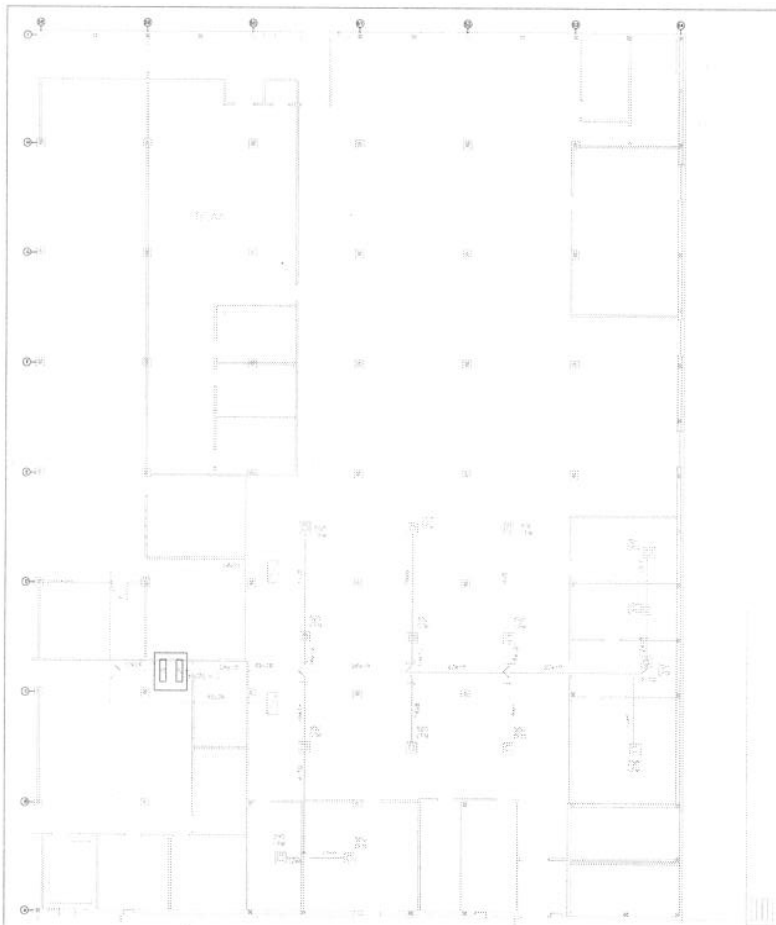
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	OFC. OF SC. AND COMM. INFO. SYSTEMS
INDUSTRIAL PROGRAMS	USDP
MAINTENANCE OPERATIONS BRANCH	
PWB Director	FACILITIES ENGINEER

DEFENSE LOGISTICS AGENCY
DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

HVAC IMPROVEMENTS IN BUILDING 54-5

BUILDING 54 BAY 5 STEAM PIPING PLANS & STEEL PLAN

DESIGNED BY	CHECKED BY	PROJECT NO.
ES		5500
DRAWN BY: ELG	FIRE CHIEF	DRAWING NO. M-103
SCALE: AS SHOWN	ELEC CHIEF	SHEET 5 OF 7
	MECH CHIEF	DATE FEB 2008
	ARCHITECT	
	SUPR ENGR	



BUILDING 54 BAY 5 EXISTING HVAC-3 PLAN-APC

SCALE 1/8"=1'-0"

LEGEND

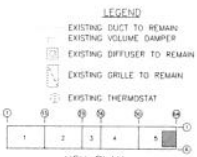
EXISTING DUCT TO REMAIN

EXISTING VOLUME DAMPER

EXISTING DIFFUSER TO REMAIN

EXISTING GRILLE TO REMAIN

EXISTING THERMOSTAT



KEY PLAN

NO.	REVISIONS	DATE

APPROVED BY

CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	OFC. OF FD. FIRE DEPARTMENT SYSTEM
INDUSTRIAL MAGAZINE	USEP
MAINTENANCE OPERATION BRANCH	
PLAN REVIEWER	FACILITIES ENGINEER

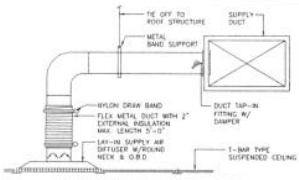
DEFENSE LOGISTICS AGENCY

DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

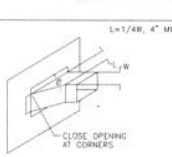
HVAC IMPROVEMENTS IN BUILDING 54-5

BUILDING 54 BAY 5 (APC) HVAC BALANCING PLAN

DESIGNED BY	CHECKED BY	
ES		PROJECT NO. 3599
DRAWN BY: ELG	CIVIL CHECK	DRAWING NO. M-104
	ELEC CHECK	SHEET 6 OF 7
SCALE AS SHOWN	MECH CHECK	
	ARCHITECT	DATE FEB 2008
	SUPVR CHECK	



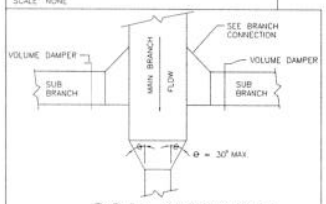
SUPPLY AIR DIFFUSER DETAIL
N.T.S.



45 DEGREE ENTRY θ = 45°

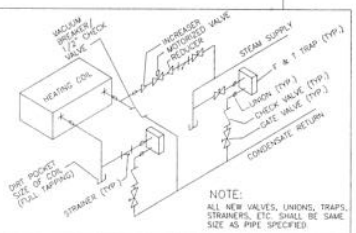
TYPICAL BRANCH CONNECTION

SCALE: NONE



TYPICAL SUPPLY DUCT

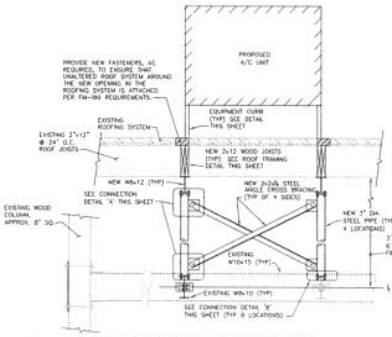
NO SCALE



NOTE:
ALL NEW VALVES, UNIONS, TRAPS, STRAINERS, ETC SHALL BE SAME SIZE AS PIPE SPECIFIED

HEATING COIL DETAIL

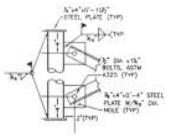
SCALE: NONE



TYPICAL SECTION OF HVAC EQUIPMENT STRUCTURAL SUPPORT

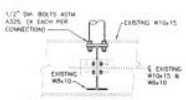
ELEVATION VIEW-SCALE: 3/8"=1'-0"

NOTE: STRUCTURAL STEEL FOR MUAC-1 IS EXISTING. CONTRACTOR TO MODIFY EXISTING SUPPORT FROM W8x10 TO UNIT.



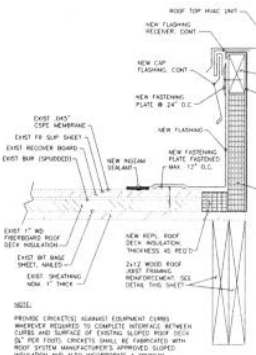
HVAC EQUIPMENT CONNECTION DETAIL 'A'

ELEVATION VIEW-SCALE: 1½"=1'-0"



HVAC EQUIPMENT CONNECTION DETAIL 'B'

ELEVATION VIEW-SCALE: 1½"=1'-0"



NOTE:
PROVIDE CRICKET(S) AGAINST EQUIPMENT CURB(S) WHEREVER REQUIRED TO COMPLETE INTERFACE BETWEEN CURBS AND SURFACE OF EXISTING SLOPED ROOF DECK (¼" PER FOOT). CRICKETS SHALL BE FABRICATED WITH ROOF SYSTEM MANUFACTURER'S APPROVED SLOPED INSULATION AND ALSO INCORPORATE A MINIMUM ACCEPTABLE VALLEY SLOPE

HVAC EQUIPMENT CURB AND FLASHING DETAIL

PLAN VIEW-SCALE: 3/8"=1'-0"

NOTES FOR ROOFING AND SHEET METAL WORK

GENERAL

1. THE CONTRACTOR IS CAUTIONED TO EXAMINE THE UNDERSIDE OF THE ROOF DECK, TO VERIFY THE CONDITION OF THE ROOF DECK, PRIOR TO GOING UP ON THE ROOF. SEE "DDSP OFFICE OF SAFETY AND HEALTH REQUIREMENTS" ON THE COVER SHEET OF THIS DRAWING SET.
2. MAINTAIN THE WATER TIGHT CONDITION OF THE ROOFING SYSTEM DURING THE PERFORMANCE OF THE WORK.

ROOFING

1. THE RI-SERVICE ROOFING SYSTEM IS A PRODUCT OF JPS ELASTOMERICS. THE SYSTEM IS AN UNDERWRITERS LABORATORY (UL) CLASS A FIRE RATED SYSTEM. THE SYSTEM HAS RECENTLY GONE OUT OF WARRANTY.
2. REPAIRS AND ALTERATIONS TO THE ROOFING SYSTEM SHALL BE PERFORMED BY A PROFESSIONAL ROOFING CONTRACTOR WHO IS CERTIFIED BY THE ROOF SYSTEM MANUFACTURER.
3. PROVIDE ROOFING MANUFACTURER'S INFORMATION FOR THE FOLLOWING:
   - A. MANUFACTURER'S CERTIFICATION OF THE ROOFING CONTRACTOR.
   - B. STANDARD INSTALLATION DRAWINGS (I.E., DETAILS) AND INSTRUCTIONS FOR REPAIR OF THE ROOFING SYSTEM AT THE LOCATIONS OF EQUIPMENT TO BE REMOVED AND THE NEW CURB INSTALLATION.
   - C. PRODUCT DATA SHEETS AND INSTALLATION INSTRUCTIONS FOR ALL PRODUCTS REQUIRED FOR THE WORK.
   - D. INSTRUCTIONS FOR CLEANING, PRIMING, SEAMING, SEALING OF AN RI-SERVICE MEMBRANE.
4. REPLACEMENT PRODUCTS SHALL BE MANUFACTURER'S STANDARD PRODUCTS, AS RECOMMENDED BY THE MANUFACTURER, AND SHALL INCLUDE THOSE NEEDED TO MAINTAIN THE FIRE CLASSIFICATION AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - A. REPLACEMENT ROOF DECK INSULATION, THICKNESS NEEDED TO PROVIDE SMOOTH SUBSTRATE FOR RECOVER BOARD
   - B. TAPERED INSULATION FOR CRICKETS.
   - C. REPLACEMENT FIRE RATED (FR) SLIP SHEET
   - D. REPLACEMENT 045 CSPE MEMBRANE
   - E. FASTENER(S) AND FASTENER PLATE
   - F. FLASHING
   - G. SEALANT
   - H. MEMBRANE CLEANER
   - I. MEMBRANE PRIMER.
5. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

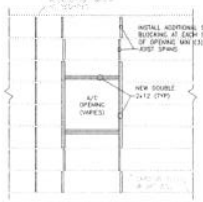
SHEET METAL WORK

1. COUNTER FLASHING, COUNTERFLASHING SHALL BE 0.94 MM (0.037") THICK STAINLESS STEEL, ASTM A 167, TYPE 302 OR 304, FULLY ANNEALED, DEAD SOFT TEMPER FABRICATED TO PROFILE INDICATED ON THE DRAWINGS. INSIDE AND OUTSIDE CORNERS TO HAVE WELDED SEAMS (LAPS TO MEET SMACNA MANUAL REQUIREMENTS). COUNTER FLASHINGS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS AND SHALL TO BE INSTALLED AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SMACNA MANUAL GUIDELINES. COUNTER FLASHINGS TO PROVIDE SPRING ACTION AGAINST THE BASE FLASHING.
2. SHEET METAL CURB, PROVIDE NEW, MIN. 18 GAUGE, GALVANIZED STEEL, SHEET METAL CURB AS FOLLOWS: CURB SHALL BE MIN. 12" HIGH BOX SECTION DESIGN. BOTTOM TO BE PITCHED ¼" PER FOOT TO MATCH THE ROOF DECK SLOPE. HAVE CONTINUOUS WELDED AND WELDED CORNER SEAMS, WITH MIN. 3" DECK FLANGE AND NOM. 4" HIGH TREATED WOOD NAILER. CURB CONFIGURATION PER "CURB FLASHING DETAIL", BY HVAC UNIT MANUFACTURER. CURB SHALL BE DESIGNED TO SUPPORT THE LOAD OF THE UNIT AND SHALL MEET ALL OF THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER. CURB SHALL BE SET DIRECTLY ON THE DECK. SHALL BE ANCHORED TO THE DECK WITH A MINIMUM OF 2 MECHANICAL FASTENERS PER SIDE AND SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND AS DETAILED ON THE DRAWINGS. ALL CONNECTIONS TO THE UNIT (E.G. ELECTRICAL) SHALL BE MADE WITHIN THE UNIT.

GENERAL STRUCTURAL NOTES

STRUCTURAL STEEL NOTES

1. MISCELLANEOUS FRAMING MEMBERS SHALL CONFORM TO A.S.T.M. A36 UNLESS NOTED OTHERWISE.
2. ALL WELDS SHALL COMPLY WITH THE LATEST A.W.S. D1.1. USE E70XX WELDING ELECTRODES. ALL WELDS SHALL BE 3/16-INCH MINIMUM.
3. ADEQUATE TEMPORARY BRACING SHALL BE PROVIDED DURING CONSTRUCTION.



TYPICAL PLAN OF WOOD ROOF JOIST FRAMING REINFORCEMENT FOR HVAC-2 UNIT

SCALE: ¼"=1'-0"

NO	REVISIONS	DATE

APPROVED BY

CONSTRUCTION REPRESENTATIVE	OFFICE OF CORPORATE SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	CAPT. JP SCL, FIRE CHIEF, FIRE SERVICE
INDUSTRIAL HYGIENIST	USER
MAINTENANCE OPERATIONS BRANCH	
SUE Worksheet	FACILITIES ENGINEER

DEFENSE LOGISTICS AGENCY
DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

HVAC IMPROVEMENTS IN BUILDING 54-5

MECHANICAL AND STRUCTURAL DETAILS

DESIGNED BY	CHECKED BY	PROJECT NO.
ES		15199
DRAWN BY		DRAWING NO.
ELG		M-501
SCALE		SHEET 7 OF 7
AS SHOWN		DATE
		FEB 2008

REPLACE COMPUTER ROOM A/C UNITS IN BUILDING 54-1

DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA, PA.

NEW CUMBERLAND, PENNSYLVANIA 17070-5002

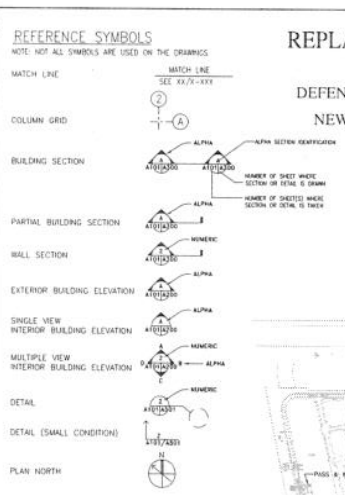
ABBREVIATIONS

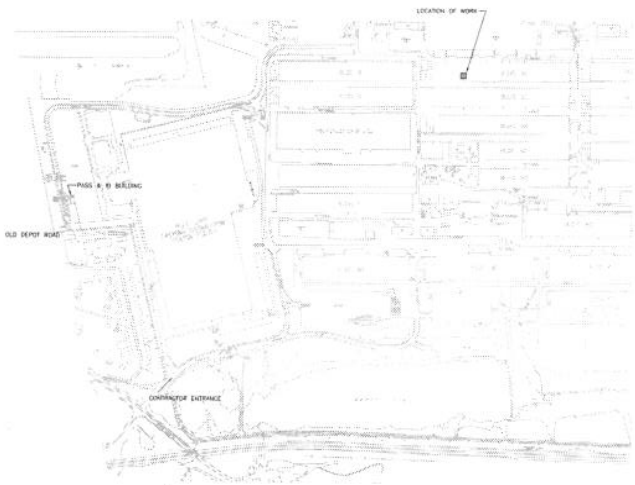
NOTE: NOT ALL ABBREVIATIONS ARE USED ON THE DRAWINGS

ACS FLR	ACCESS FLOOR
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AR	AS REQUIRED
ASSY	ASSEMBLY
ATCH	ATTACHMENT
BAL	BALANCE
BC	BOTTOM CHORD
BM	BEAM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BS	BOTH SIDES
CL	CENTER LINE
CNCL	CONCEALED
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DFLCT	DEFLECTION
DR	DOOR
DWG	DRAWING
EAF	EXHAUST AIR REGISTER
EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FSTNR	FASTENER
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FRMG	FRAMING
G	GROUND
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GF FL	GROUND FLOOR
GYP	GYPSUM
H	HIGH
HDRL	HANDRAIL
HDW	HARDWARE
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LPT	LOW POINT
LT	LIGHT
LT GA	LIGHT GAUGE
MATL	MATERIAL
MAX	MAXIMUM
OC	ON CENTER
OHDR	OVERHEAD DOOR
OPNG	OPENING
PARTN	PARTITION
PRCST	PRECAST
PERIM	PERIMETER
PL	PLATE
PNL	PANEL
PT	PAINT
PWR	POWER
RC	REINFORCED CONCRETE
RCVR	RECEIVER
REINF	REINFORCE
REPL	REPLACEMENT
SQ	SQUARE
SHT	SHEET
SHT MTL FLASH	SHEET METAL FLASHING
SM	SHEET METAL
SPCL	SPECIAL
STL	STEEL
STRUCT	STRUCTURAL
SW	SWITCH
TERM	TERMINATION
TO	TOP OF
TOS	TOP OF STEEL
TOM	TOP OF MASONRY
TRTD	TREATED
TYP	TYPICAL
T&B	TOP & BOTTOM
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VRFY	VERIFY
VWC	VINYL WALL COVERING
WD	WOOD

REFERENCE SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THE DRAWINGS





SITE PLAN
NOT TO SCALE

N
LOCATION PLAN
NOT TO SCALE

INDEX OF DRAWINGS

SHEET	DRAWING NO.	DESCRIPTION
1	G-001	COVER SHEET, NOTES AND DRAWING INDEX
2	M-101	PARTIAL FLOOR PLAN-- MECHANICAL/ ELECTRICAL

GENERAL NOTES:

1. ALL CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REGULATIONS, 29 CODE OF FEDERAL REGULATIONS (CFR) 1910/1926, ALL APPLICABLE SUBPARTS, AND NFPA REGULATIONS.
2. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE GOVERNMENT.
3. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE AT ALL TIMES IN A MANNER THAT MINIMIZES THE DEPOSITION OF ANY CONSTRUCTION MATERIALS OR DEBRIS ONTO ADJACENT BUILDING AREAS AND/OR WALKWAYS. THE WORK SITE SHALL BE MONITORED AND CLEANED/SWEPT ON A CONTINUAL B

SHERS, ELECTRICAL PANELS, EXIT WAYS AND MEANS OF EGRESS, INCLUDING AISLES WHICH LEAD TO EXITWAYS, SHALL BE KEPT OPEN TO BUILDING OCCUPANTS AT ALL TIMES.

6. ESTABLISH A SAFETY ZONE AT INTERIOR AND EXTERIOR LOCATIONS, AS DIRECTED BY THE COR. THE SPECIFIED LOCATIONS SHALL BE VISIBLY MARKED AND CORDONED OFF, ALONG THEIR PERIMETER, USING YELLOW CAUTION TAPE, MOUNTED AT STANDARD HANDRAIL HEIGHT. THE LOCATIONS SHALL INCLUDE THE FOLLOWING: DUMPSTER LOCATION(S), AREAS FOR OFF LOADING, STAGING, AND INSTALLATION. DUMPSTER LOCATIONS SHALL BE COORDINATED WITH COR.
7. ALL HOT WORK, CONDUCTED ON SITE, REQUIRES A HOT WORK PERMIT ISSUED BY THE FIRE DEPARTMENT BEFORE WORK STARTS. HOT WORK PERMITS ARE ISSUED DAILY FOR THAT DAY. THERE ARE NO LONG TERM PERMITS.

NO.	REVISIONS	DATE

APPROVED BY	
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH
FIRE PROTECTION BRANCH	CHIEF OF FIRE, AND CONAG NFPS, SHEPARD
INDUSTRIAL ENGINEER	USDP
MAINTENANCE OPERATION BRANCH	
PGA REPRESENTATIVE	PROJECTS ENGINEER

DEFENSE LOGISTICS AGENCY
DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA
FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH
NEW CUMBERLAND, PA 17070-5002

REPLACE COMPUTER ROOM A/C UNITS IN BUILDING 54-1

COVER SHEET, NOTES AND DRAWING INDEX

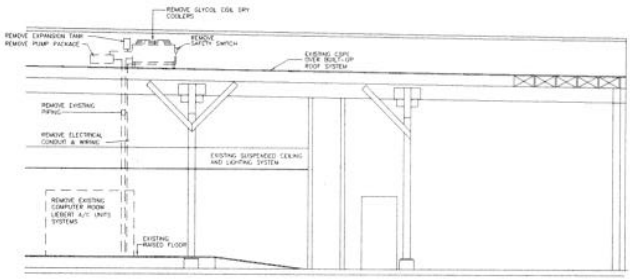
DESIGNED BY: ES	CHECKED BY:	PROJECT NO. 35917
DRAWN BY: ELG	CIVIL CHIEF / ELEC CHIEF / MECH CHIEF / ARCHITECT / SUPR CHIEF	DRAWING NO. G-001
SCALE: AS SHOWN		SHEET 1 OF 2 SHEETS
		FEB 2008

GENERAL MECHANICAL NOTES

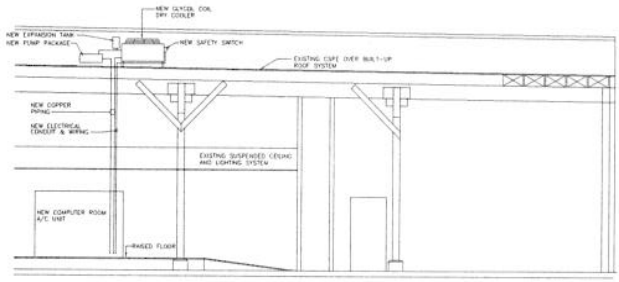
1. THE EXISTING 20 TON A/C UNITS, DRY COOLERS, EXPANSION TANKS, PIPING AND PUMPS SHALL BE REMOVED AND REPLACED WITH NEW AT THE SAME LOCATION.
2. THE INSTALLATION OF NEW A/C SYSTEM SHALL COMPLY WITH N.F.P.A. 90-A.
3. NEW FLOOR GRILLES SHALL BE MANUFACTURED OF ALUMINUM WITH VOLE DAMPERS AND FREE AREA OF 103 SQ.IN. APPROX. SIZE 18"x12". EXISTING GRILLES TO BE RELOCATED INCLUDE FLOOR TILE. RELOCATE GRILLE BY NUMBER.
4. ANY ROOF PENETRATIONS SHALL BE REPAIRED PER ROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ALL NEW PIPING SHALL BE INSULATED.
6. CAPACITY OF NEW COMPUTER ROOM A/C UNITS: (2 EACH):
   TOTAL HEAT @ 72°F, 50% RH = 110,0MBH
   SENSIBLE HEAT @ 72°F, 50% RH =102.8MBH
   CFM=5,600
   HUMIDIFICATION= 17.4 LB/HR
   ELECTRIC REHEAT= 56,800 BTUH

ELECTRICAL NOTES

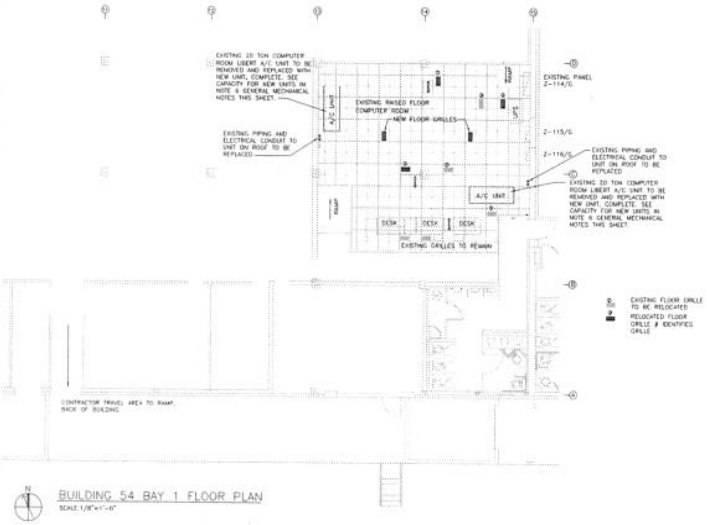
1. PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING PANEL Z114 AS RECOMMEDED BY THE MANUFACURER FOR THE NEW UNIT PROVIDED. REUSE EXISTING WIRING/CONDUIT FROM EXISTING UNIT BEING REPLACED. EXISTING PANEL Z114 IS AN 112 CIRCUIT BREAKER COMPANY PANEL 208/120V.
2. PROVIDE A GFCI RECEPTACLE AND DISCONNECT SAFETY SWITCH AT UNIT ON ROOF.
3. REMOVE EXISTING CONDUIT/WIRE FROM A/C UNITS TO CONDENSING UNITS. PROVIDE AND INSTALL NEW CONDUIT AND WIRE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. PROVIDE AND INSTALL ALL THE NECESSARY WORK FOR A COMPLETE AND USABLE SYSTEM.
6. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH OTHER DRAWINGS AND WITH THE COR.



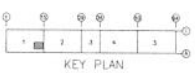
EXISTING A/C UNIT CROSS SECTION (TYPICAL AT 2 LOCATIONS)
SCALE:1/4"=1'-0"



NEW A/C UNIT CROSS SECTION (TYPICAL AT 2 LOCATIONS)
SCALE:1/4"=1'-0"



BUILDING 54 BAY 1 FLOOR PLAN
SCALE:1/8"=1'-0"



KEY PLAN

NO	REVISIONS	DATE

APPROVED BY		DEFENSE LOGISTICS AGENCY DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH NEW CUMBERLAND, PA 17070-5002		
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND DESIGN			
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH	REPLACE COMPUTER ROOM A/C UNIT BLDG 54-1		
FIRE PROTECTION BRANCH	DPC AT TCI, FIRE COMM NFS SYSTEMS	PARTIAL FLOOR PLAN – MECHANICAL/ ELECTRICAL PLAN		
INDUSTRIAL PROGRAMS	IDDP	DESIGNED BY ES	CHECKED BY	PROJECT NO 3597
MAINTENANCE OPERATION BRANCH		DRAWN BY ELG	CHIEF ENGRS.	DRAWING NO M-101
		SCALE	MECH. BRCH.	SHEET 2 OF 2
RGB Number	FACILITIES ENGINEER	AS SHOWN	ARCHDIST	DATE FEB 2008
			SUPV. ENGRS.	

REPLACE COMPUTER ROOM A/C UNIT IN BUILDING 54-4

DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA, PA.

NEW CUMBERLAND, PENNSYLVANIA 17070-5002

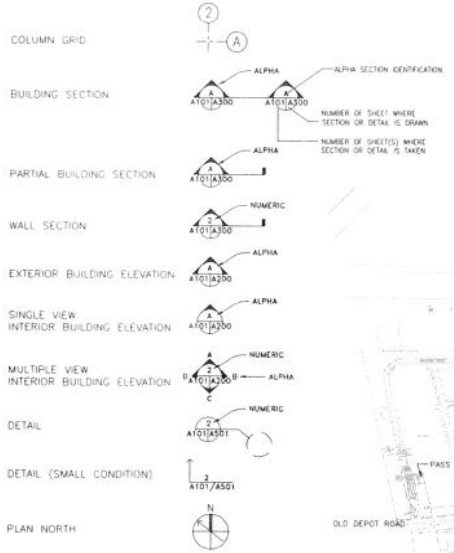
ABBREVIATIONS

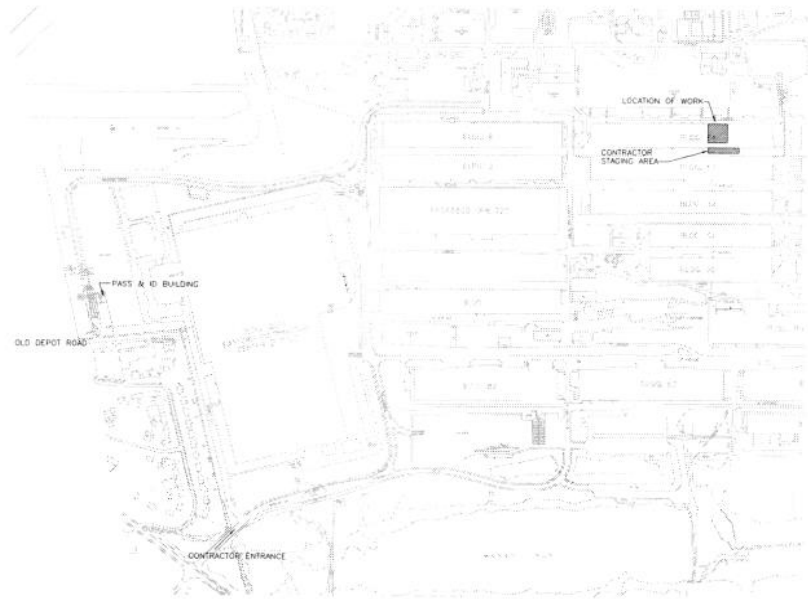
NOTE: NOT ALL ABBREVIATIONS ARE USED ON THE DRAWINGS

ACS FLR	ACCESS FLOOR
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AR	AS REQUIRED
ASSY	ASSEMBLY
ATCH	ATTACHMENT
BAL	BALANCE
BC	BOTTOM CHORD
BM	BEAM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BS	BOTH SIDES
CL	CENTER LINE
CNCL	CONCEALED
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DFLCT	DEFLECTION
DR	DOOR
DWG	DRAWING
EAR	EXHAUST AIR REGISTER
EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FSTNR	FASTENER
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FRMG	FRAMING
G	GROUND
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GR FL	GROUND FLOOR
GYP	GYPSUM
H	HIGH
HDRL	HANDRAIL
HDW	HARDWARE
L	ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LPT	LOW POINT
LT	LIGHT
LT GA	LIGHT GAUGE
MATL	MATERIAL
MIN	MINIMUM
OC	ON CENTER
OHDR	OVERHEAD DOOR
OPNG	OPENING
PARTN	PARTITION
PRCST	PRECAST
PERIM	PERIMETER
PL	PLATE
PNL	PANEL
PT	PAINT
PWR	POWER
RC	REINFORCED CONCRETE
RCVR	RECEIVER
REINF	REINFORCE
REPL	REPLACEMENT
SQ	SQUARE
SHT	SHEET
SHT MTL FLASH	SHEET METAL FLASHING
SM	SHEET METAL
SPCL	SPECIAL
STL	STEEL
STRUCT	STRUCTURAL
SW	SWITCH
TERM	TERMINATION
TO	TOP OF
TOS	TOP OF STEEL
TOW	TOP OF MASONRY
TRTD	TREATED
TYP	TYPICAL
T&B	TOP & BOTTOM
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
VAR	VARIES
VAT	VINYL ASBESTOS TILE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VRFY	VERIFY
VWC	VINYL WALL COVERING
WD	WOOD

REFERENCE SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THE DRAWINGS

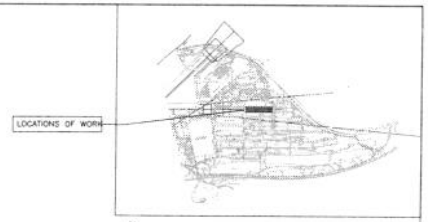




N

SITE PLAN

NOT TO SCALE



N

LOCATION PLAN

NOT TO SCALE

INDEX OF DRAWINGS

SHEET	DRAWING NO.	DESCRIPTION
1	G-001	COVER SHEET, NOTES AND DRAWING INDEX
2	M-101	PARTIAL FLOOR PLAN- MECHANICAL/ ELECTRICAL

GENERAL NOTES:

1. ALL CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REGULATIONS, 29 CODE OF FEDERAL REGULATIONS (CFR) 1910/1926, ALL APPLICABLE SUBPARTS, AND NFPA REGULATIONS.
2. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH ADJUSTMENTS ARE TO BE APPROVED BY THE GOVERNMENT.
3. THE CONTRACTOR SHALL MAINTAIN THE WORK SITE AT ALL TIMES IN A MANNER THAT MINIMIZES THE DEPOSITION OF ANY CONSTRUCTION MATERIALS OR DEBRIS ONTO ADJACENT BUILDING AREAS AND/OR WALKWAYS. THE WORK SITE SHALL BE MONITORED AND CLEANED/SWEPT ON A CONTINUAL BASIS AS REQUIRED. CLEANUP ACTIVITIES SHALL NOT BE LEFT TO BE PERFORMED AT THE END OF EACH WORK DAY.
4. DAMAGES TO THE EXISTING BUILDING AS A RESULT OF THIS PROJECT SHALL BE IMMEDIATELY REPORTED TO THE COR. DAMAGES SHALL BE REPAIRED PER THE GOVERNMENTS DIRECTION AND AT NO ADDITIONAL COST TO THE GOVERNMENT.
5. FIRE ALARMS, FIRE EXTINGUISHERS, ELECTRICAL PANELS, EXIT WAYS AND MEANS OF EGRESS, INCLUDING AISLES WHICH LEAD TO EXITWAYS, SHALL BE KEPT OPEN TO BUILDING OCCUPANTS AT ALL TIMES.
6. ESTABLISH A SAFETY ZONE AT INTERIOR AND EXTERIOR LOCATIONS, AS DIRECTED BY THE COR. THE SPECIFIED LOCATIONS SHALL BE VISIBLY MARKED AND CORDONED OFF, ALONG THEIR PERIMETER, USING YELLOW CAUTION TAPE, MOUNTED AT STANDARD HANDRAIL HEIGHT. THE LOCATIONS SHALL INCLUDE THE FOLLOWING; DUMPSTER LOCATION(S), AREAS FOR OFF LOADING, STAGING, AND INSTALLATION. DUMPSTER LOCATIONS SHALL BE COORDINATED WITH COR.
7. ALL HOT WORK, CONDUCTED ON SITE, REQUIRES A HOT WORK PERMIT ISSUED BY THE FIRE DEPARTMENT BEFORE WORK STARTS. HOT WORK PERMITS ARE ISSUED DAILY FOR THAT DAY. THERE ARE NO LONG TERM PERMITS.

NO.	REVISIONS	DATE

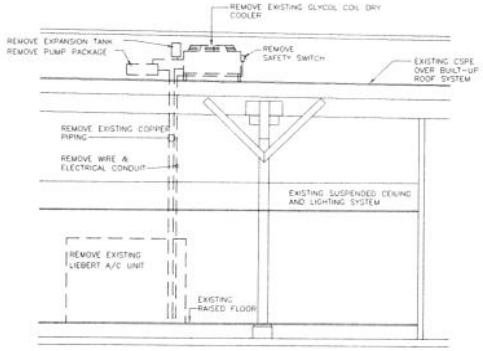
APPROVED BY		DEFENSE LOGISTICS AGENCY DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH NEW CUMBERLAND, PA 17070-5002		
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY			
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH	REPLACE COMPUTER ROOM A/C UNIT IN BUILDING 54-4		
FIRE PROTECTION BRANCH	OFC. OF TEL. AND COMM. INFO. SYSTEMS	COVER SHEET, NOTES AND DRAWING INDEX		
INDUSTRIAL HYGIENIST	USER	DESIGNED BY: ES	CHECKED BY:	PROJECT NO. 3598
MAINTENANCE OPERATION BRANCH		DRAWN BY: ELG	CIVIL ENGR. / ELEC. ENGR.	DRAWING NO. G-001
Rob Montefour	FACILITIES ENGINEER	SCALE: AS SHOWN	MECH. ENGR. / ARCHITECT / SUPR. ENGR.	SHEET 1 OF 2
				DATE FEB 2008

GENERAL MECHANICAL NOTES

1. THE EXISTING 20 TON A/C UNIT, DRY COOLER, EXPANSION TANK, PIPING AND PUMPS SHALL BE REMOVED AND REPLACED WITH NEW.
2. THE INSTALLATION OF NEW A/C SYSTEM SHALL COMPLY WITH N.F.P.A. 90-A.
3. ALL NEW PIPING SHALL BE INSULATED.
4. ANY ROOF PENETRATIONS SHALL BE REPAIRED PER ROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. CAPACITY OF NEW COMPUTER ROOM A/C UNIT
   TOTAL HEAT @ 72°F, 50% RH = 207 1MBH
   SENSIBLE HEAT @ 72°F, 50% RH =192 5MBH
   CFM= 10,200
   HUMIDIFICATION= 22.1 LB/HR.
   ELECTRIC REHEAT= 121,500 BTUH

ELECTRICAL NOTES

1. PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING PANEL Z418 AS RECOMMEDED BY THE MANUFACURER FOR THE NEW UNIT PROVIDED. REUSE EXISTING WIRING/CONDUIT FROM EXISTING UNIT BEING REPLACED. EXISTING PANEL Z418 IS A FEDERAL PACIFIC PANEL 240/120V. CONTRACTOR TO VERIFY VOLTAGE PRIOR TO ORDERING ANY MATERIAL.
2. PROVIDE A GFCI RECEPTACLE AND DISCONNECT SAFETY SWITCH AT UNIT ON ROOF.
3. REMOVE EXISTING CONDUIT/WIRE FROM A/C UNIT TO CONDENSING UNIT. PROVIDE AND INSTALL NEW CONDUIT AND WIRE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
5. PROVIDE AND INSTALL ALL THE NECESSARY WORK FOR A COMPLETE AND USABLE SYSTEM.
6. COORDINATE LOCATIONS OF ALL EQUIPMENT WITH OTHER DRAWINGS AND WITH THE COR.



EXISTING A/C UNIT CROSS SECTION
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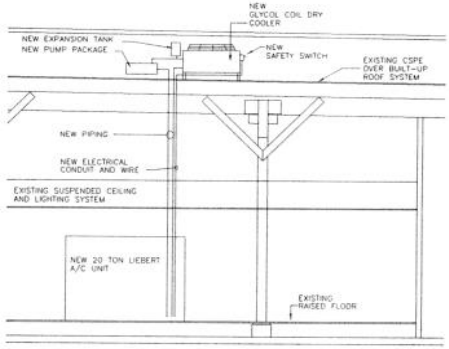

NEW A/C UNIT CROSS SECTION
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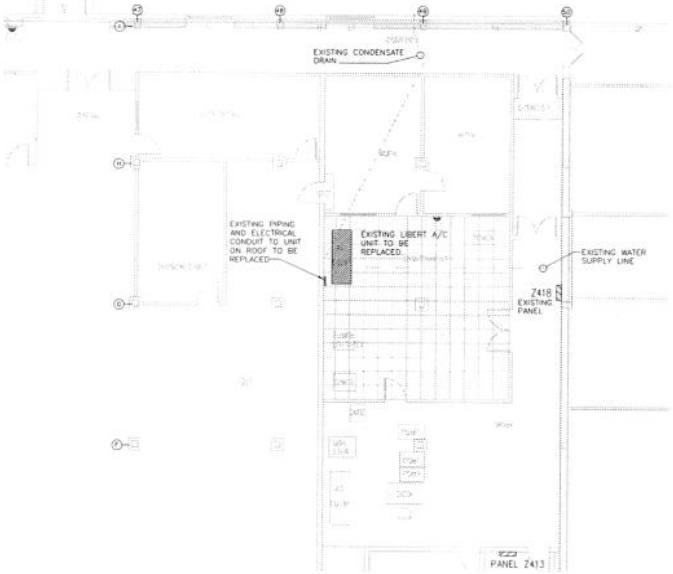

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BUILDING 54 BAY 4 FLOOR PLAN
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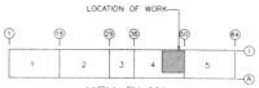

KEY PLAN

NO.	REVISIONS	DATE

APPROVED BY		DEFENSE LOGISTICS AGENCY DEFENSE DISTRIBUTION DEPOT SUSQUEHANNA PENNSYLVANIA FACILITIES ENGINEERING DIVISION, ENGINEERING BRANCH NEW CUMBERLAND, PA 17070-5002		
CONSTRUCTION REPRESENTATIVE	OFFICE OF COMMAND SECURITY			
ENVIRONMENTAL BRANCH	SAFETY AND HEALTH	REPLACE COMPUTER ROOM A/C UNIT IN BUILDING 54-4		
FIRE PROTECTION BRANCH	OFC. OF TEL. AND COMM. INFO. SYSTEMS	PARTIAL FLOOR PLAN - MECHANICAL/ ELECTRICAL PLAN		
INDUSTRIAL HYGIENIST	USER	DESIGNED BY: ES	CHECKED BY:	PROJECT NO. 3598
		DRAWN BY: ELG	CIVIL ENGR. / ELEC. ENGR. / MECH. ENGR. / ARCHITECT / SUPR. ENGR.	DRAWING NO. M-101
MAINTENANCE OPERATION BRANCH		SCALE: AS SHOWN		SHEET 2 OF 2
Rob Mortefior	FACILITIES ENGINEER			DATE FEB 2008