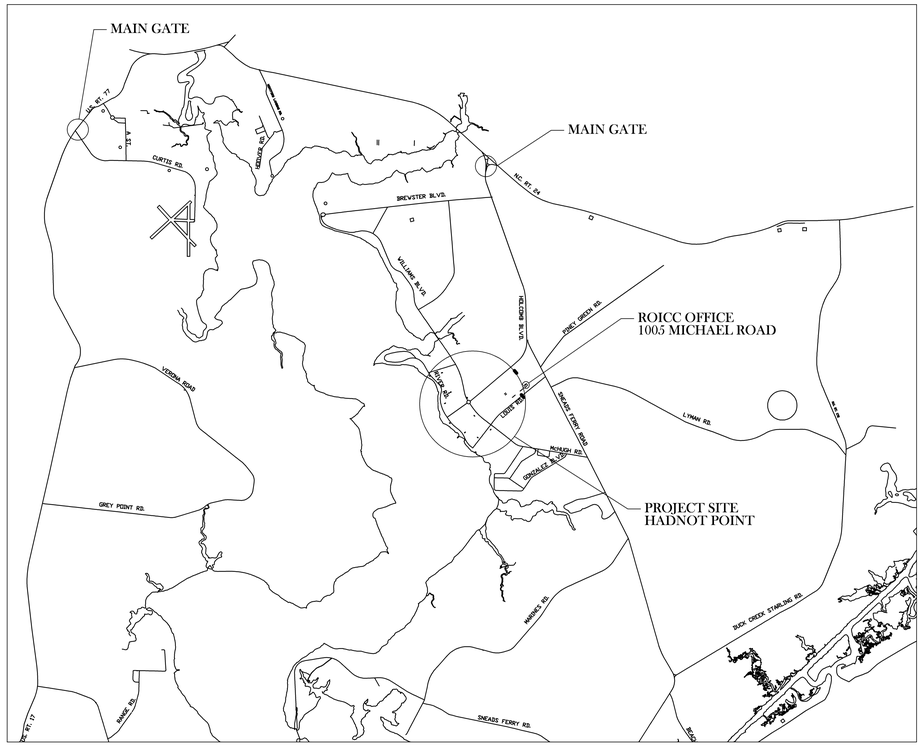
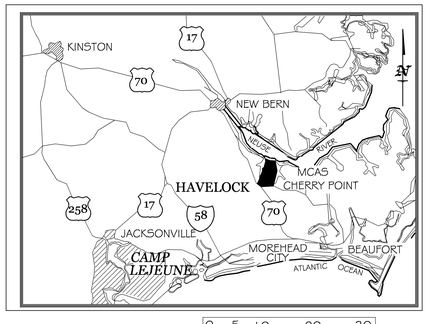
SYM.		PREP'D BY	DATE	APPROVED



LOCATION MAP
NOT TO SCALE

PROJECT SITE – HADNOT POINT MAP
NOT TO SCALE



VICINITY MAP
SCALE AS NOTED

HVAC/DHW IMPROVEMENTS, VARIOUS FACILITIES, HADNOT POINT

MARINE CORPS BASE, CAMP LEJEUNE, N.C.
PROJECT NO. CP 12-0091

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-

(1) The Contracting Officer has given prior written approval; or

(2) The information is otherwise in the public domain before the date of release.

(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.

(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

G–001

PROJECT NO. CP12-0091

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES.	JHE
DR.	AEI
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

HVAC/DHW IMPROVEMENTS, VARIOUS FACILITIES, HADNOT POINT
COVER SHEET

SIZE: E | CODE IDENT NO.: 80091 | NAVFAC DRAWING NO.: 60011345
CONSTR CONTR NO.: N40085-12-B-0091
SCALE: AS SHOWN | SPEC No.: 05-12-0091 | SHEET 01 OF 84

COMMONWEALTH OF VIRGINIA
JOHN H. EPPERSON
No. 11087
8/22/12
PROFESSIONAL ENGINEER
SEAL

SYM.	PREP'D BY	DATE	APPROVED

INDEX OF DRAWINGS

Sheet Number	NAVFAC Number	Sheet Title
G-001	60011345	COVER SHEET
G-002	60011346	INDEX OF DRAWINGS
M-001	60011347	LEGEND AND ABBREVIATIONS
M-101A	60011348	BUILDING 13 MECHANICAL DEMOLITION PLAN
M-101B	60011349	BUILDING 13 MECHANICAL NEW WORK PLAN
M-101C	60011350	BUILDING 13 PLUMBING PLAN, DIAGRAMS & DETAILS
M-101D	60011351	BUILDING 13 SCHEDULES, DETAILS & CONTROLS
M-102A	60011352	BUILDING 114 MECHANICAL DEMOLITION PLAN
M-102B	60011353	BUILDING 114 MECHANICAL NEW WORK PLAN
M-102C	60011354	BUILDING 114 PLUMBING PLAN, DIAGRAMS & DETAILS
M-102D	60011355	BUILDING 114 SCHEDULES, DETAILS & CONTROLS
M-103A	60011356	BUILDING 127 MECHANICAL DEMOLITION PLAN
M-103B	60011357	BUILDING 127 MECHANICAL NEW WORK PLAN
M-103C	60011358	BUILDING 127 SCHEDULES, DETAILS & CONTROLS
M-104A	60011359	BUILDING 214 MECHANICAL DEMOLITION PLAN
M-104B	60011360	BUILDING 214 MECHANICAL NEW WORK PLAN
M-104C	60011361	BUILDING 214 PLUMBING PLAN, DIAGRAMS & DETAILS
M-104D	60011362	BUILDING 214 SCHEDULES, DETAILS & CONTROLS
M-105A	60011363	BUILDING 216 MECHANICAL DEMOLITION PLAN
M-105B	60011364	BUILDING 216 MECHANICAL NEW WORK PLAN
M-105C	60011365	BUILDING 216 PLUMBING PLAN, DIAGRAMS & DETAILS
M-105D	60011366	BUILDING 216 SCHEDULES, DETAILS & CONTROLS
M-106A	60011367	BUILDING 219 MECHANICAL DEMOLITION PLAN
M-106B	60011368	BUILDING 219 MECHANICAL NEW WORK PLAN
M-106C	60011369	BUILDING 219 SCHEDULES, DETAILS & CONTROLS
M-107A	60011370	BUILDING 317 MECHANICAL DEMOLITION PLAN
M-107B	60011371	BUILDING 317 MECHANICAL NEW WORK PLAN
M-107C	60011372	BUILDING 317 PLUMBING PLAN, DIAGRAMS & DETAILS
M-107D	60011373	BUILDING 317 SCHEDULES, DETAILS & CONTROLS
M-108A	60011374	BUILDING 400 MECHANICAL DEMOLITION PLAN
M-108B	60011375	BUILDING 400 MECHANICAL NEW WORK PLAN
M-108C	60011376	BUILDING 400 SCHEDULES, DETAILS & CONTROLS
M-109A	60011377	BUILDING 419 MECHANICAL DEMOLITION PLAN
M-109B	60011378	BUILDING 419 MECHANICAL NEW WORK PLAN
M-109C	60011379	BUILDING 419 SCHEDULES, DETAILS & CONTROLS
M-110A	60011380	BUILDING 501 MECHANICAL DEMOLITION PLAN
M-110B	60011381	BUILDING 501 MECHANICAL NEW WORK PLAN
M-110C	60011382	BUILDING 501 PLUMBING PLAN, DIAGRAMS & DETAILS
M-110D	60011383	BUILDING 501 SCHEDULES, DETAILS & CONTROLS
M-111A	60011384	BUILDING 519 MECHANICAL DEMOLITION PLAN
M-111B	60011385	BUILDING 519 MECHANICAL NEW WORK PLAN
M-111C	60011386	BUILDING 519 PLUMBING PLAN, DIAGRAMS & DETAILS
M-111D	60011387	BUILDING 519 SCHEDULES, DETAILS & CONTROLS

INDEX OF DRAWINGS

Sheet Number	NAVFAC Number	Sheet Title
M-112A	60011388	BUILDING 526 MECHANICAL DEMOLITION PLAN
M-112B	60011389	BUILDING 526 MECHANICAL NEW WORK PLAN
M-112C	60011390	BUILDING 526 PLUMBING PLAN, DIAGRAMS & DETAILS
M-112D	60011391	BUILDING 526 SCHEDULES, DETAILS & CONTROLS
M-113A	60011392	BUILDING 1106 MECHANICAL DEMOLITION PLAN
M-113B	60011393	BUILDING 1106 MECHANICAL NEW WORK PLAN
M-113C	60011394	BUILDING 1106 SCHEDULES, DETAILS & CONTROLS
M-114A	60011395	BUILDING 1107 MECHANICAL DEMOLITION PLAN
M-114B	60011396	BUILDING 1107 MECHANICAL NEW WORK PLAN
M-114C	60011397	BUILDING 1107 SCHEDULES, DETAILS & CONTROLS
M-115A	60011398	BUILDING 1309 MECHANICAL DEMOLITION PLAN
M-115B	60011399	BUILDING 1309 MECHANICAL NEW WORK PLAN
M-115C	60011400	BUILDING 1309 SCHEDULES, DETAILS & CONTROLS
M-116A	60011401	BUILDING 1310 MECHANICAL DEMOLITION PLAN
M-116B	60011402	BUILDING 1310 MECHANICAL NEW WORK PLAN
M-116C	60011403	BUILDING 1310 SCHEDULES, DETAILS & CONTROLS
M-117A	60011404	BUILDING 1409 MECHANICAL DEMOLITION PLAN
M-117B	60011405	BUILDING 1409 MECHANICAL NEW WORK PLAN
M-117C	60011406	BUILDING 1409 SCHEDULES, DETAILS & CONTROLS
M-118A	60011407	BUILDING 1410 MECHANICAL DEMOLITION PLAN
M-118B	60011408	BUILDING 1410 MECHANICAL NEW WORK PLAN
M-118C	60011409	BUILDING 1410 SCHEDULES, DETAILS & CONTROLS
E-101	60011410	BUILDING 13 ELECTRICAL PLAN
E-102	60011411	BUILDING 114 ELECTRICAL PLAN
E-103	60011412	BUILDING 127 ELECTRICAL PLAN
E-104	60011413	BUILDING 214 ELECTRICAL PLAN
E-105	60011414	BUILDING 216 ELECTRICAL PLAN
E-106	60011415	BUILDING 219 ELECTRICAL PLAN
E-107	60011416	BUILDING 317 ELECTRICAL PLAN
E-108	60011417	BUILDING 400 ELECTRICAL PLAN
E-109	60011418	BUILDING 419 ELECTRICAL PLAN
E-110	60011419	BUILDING 501 ELECTRICAL PLAN
E-111	60011420	BUILDING 516 ELECTRICAL PLAN
E-112	60011421	BUILDING 526 ELECTRICAL PLAN
E-113	60011422	BUILDING 1106 ELECTRICAL PLAN
E-114	60011423	BUILDING 1107 ELECTRICAL PLAN
E-115	60011424	BUILDING 1309 ELECTRICAL PLAN
E-116	60011425	BUILDING 1310 ELECTRICAL PLAN
E-117	60011426	BUILDING 1409 ELECTRICAL PLAN
E-118	60011427	BUILDING 1410 ELECTRICAL PLAN
E-501	60011428	REFLECTED CEILING NOTES AND DETAILS

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:
(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-
(1) The Contracting Officer has given prior written approval; or
(2) The information is otherwise in the public domain before the date of release.
(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.
(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

G-002

PROJECT NO. CP12-0091

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

HVAC/DHW IMPROVEMENTS,
VARIOUS FACILITIES,
HADNOT POINT
INDEX OF DRAWINGS

DES.	JHE
DR.	AEI
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

COMMONWEALTH OF VIRGINIA
JOHN H. EPPERSON
No. 11087
8/22/12
PROFESSIONAL ENGINEER
SEAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011346
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 02 OF 84

SYM.	PREP'D BY	DATE	APPROVED

ABBREVIATIONS

(E)	EXISTING	DIFF	DIFFERENTIAL	HGR	HOODED GRAVITY RELIEF	RF	RADIO FREQUENCY
A	ANCHOR	DN	DOWN	HOR	HORIZONTAL	RH	RELATIVE HUMIDITY
AAV	AUTOMATIC AIR VENT	DO	DIGITAL OUTPUT	HP	HORSEPOWER	RHC	REHEAT COIL
ACC	AIR-COOLED CHILLER	DP	DIFFERENTIAL PRESSURE	HPR	HIGH PRESSURE STEAM RETURN	RL	REFRIGERATION LINE
ACU	AIR CONDITONING UNIT	DPR	DAMPER	HPS	HIGH PRESSURE STEAM SUPPLY	RLA	RATED LOAD AMPS
AD	ACCESS DOOR	DPS	DIFFERENTIAL PRESSURE SENSOR	HTG	HEATING	RLF	RELIEF
AF	AIRFOIL	DWDI	DOUBLE WIDTH, DOUBLE INLET	HTR	HEATER	RPM	REVOLUTIONS PER MINUTE
AFF	ABOVE FINISH FLOOR	DWG	DRAWING	HVAC	HEATING VENTILATING & AIR CONDITIONING	RTN	RETURN
AFMS	AIR FLOW MEASURING STATION	EA	EACH	HVU	HEATING AND VENTILATING UNIT	RV	RELIEF VALVE
AHU	AIR HANDLING UNIT	EAT	ENTERING AIR TEMPERATURE	HWR	HOT WATER HEATING RETURN OR HOUR	SA	SUPPLY AIR
AI	ANALOG INPUT	EC	ELECTRIC CONVECTOR	HWS	HOT WATER HEATING SUPPLY	SAF	SUPPLY AIR FAN
AL	ALUMINUM	ECC RED	ECCENTRIC REDUCER	HZ	HERTZ	SAT	SATURATION
AMB	AMBIENT	EDH	ELECTRIC DUCT HEATER	ID	INSIDE DIAMETER	SCR	SILICON CONTROLLED RECTIFIER
AMP	AMPERE	EF	EXHAUST FAN	IL	INTERNAL ACOUSTICAL DUCT LINING	SD	SPLITTER DAMPER
AO	ANALOG OUTPUT	EG	ETHYLENE GLYCOL	IN	INCH, INCHES	SDPR	SMOKE DAMPER
AP	ACCESS PANEL	EH	ELECTRIC HEATER	INSU	INSULATION	SEC	SECONDS
APD	AIR PRESSURE DROP	EI	EXTERNALLY INSULATED	JWR	JACKET WATER RETURN	SF	SQUARE FEET
APPROX	APPROXIMATE	EJ	EXPANSION JOINT	JWS	JACKET WATER SUPPLY	SL	SUCTION LINE
ARCH	ARCHITECT	EL	ELEVATION	KW	KILOWATT	SP	STATIC PRESSURE
ASJ	ALL SERVICE JACKET	ELEV	ELEVATION	KWH	KILOWATT HOUR	SPD	SPEED
ATC	AUTOMATIC TEMPERATURE CONTROLS	EP	ELECTRIC-PNEUMATIC	LAT	LEAVING AIR TEMPERATURE	SPEC	SPECIFICATIONS
ATM	ATMOSPHERE	EQUI	EQUIPMENT	LB/HR	POUNDS PER HOUR	SQ	SQUARE
ATT	ATTENUATOR	ERU	ENERGY RECOVERY UNIT	LBS	POUNDS	SS	STAINLESS STEEL
AUTO	AUTOMATIC	ESP	EXTERNAL STATIC PRESSURE	LF	LINEAR FEET	STD	STANDARD
AV	AIR VALVE	EWT	ENTERING WATER TEMPERATURE	LPR	LOW PRESSURE STEAM RETURN	STL	STEEL
B	BOILER	EXH	EXHAUST	LPS	LOW PRESSURE STEAM SUPPLY	STM	STEAM
BBD	BOILER BLOW DOWN	EXIST	EXISTING	LRA	LOCKED ROTOR AMPS	STR	STRAINER
BC	BALANCING COCK	EXP	EXPANSION	LVR	LOUVER	SYS	SYSTEM
BEL	BELLMOUTH FITTING	EXT	EXTERNAL	LWT	LEAVING WATER TEMPERATURE	TD	TRANSFER DUCT
BFW	BOILER FEED WATER	F & T	FLOAT AND THERMOSTATIC	MAV	MANUAL AIR VENT	TEMP	TEMPERATURE
BHP	BRAKE HORSEPOWER	F OR °F	DEGREE FAHRENHEIT	MAX	MAXIMUM	TONS	TONS OF REFRIGERATION
BLDG	BUILDING	F TO F	FACE TO FACE	MBH	THOUSAND BTU'S PER HOUR	TRANS	TRANSFER
BRAHU	BATTERY ROOM AIR HANDLING UNIT	FC	FORWARD CURVED	MBTUH	THOUSAND BTU'S PER HOUR	TSP	TOTAL STATIC PRESSURE
BTU	BRITISH THERMAL UNIT	FCD	FLOW CONTROL DEVICE	MCA	MINIMUM CIRCUIT AMPS	TSTAT	THERMOSTAT
BTUH	BRITISH THERMAL UNITS PER HOUR	FCU	FAN COIL UNIT	MIN	MINIMUM	TT	TEMPERATURE TRANSMITTER
BY	BUTTERFLY VALVE	FCV	FUEL OIL VENT	MPR	MEDIUM PRESSURE STEAM RETURN	TU	TERMINAL UNIT
C TO C	CENTER TO CENTER	FD	FLOOR DRAIN	MPS	MEDIUM PRESSURE STEAM SUPPLY	TWR	TEMPERED WATER RETURN
CA	COMPRESSED AIR	FDPR	FIRE DAMPER	MTG HGT	MOUNTING HEIGHT	TWS	TEMPERED WATER SUPPLY
CC	COOLING COIL	FF	FINISH FLOOR	N	NORTH	TYP	TYPICAL
CF	CHEMICAL FEED	FLA	FULL LOAD AMPS	N/A	NOT APPLICABLE	UC	UNDER CUT
CFH	CUBIC FEET PER HOUR	FLEX	FLEXIBLE	NC	NOISE CRITERA OR NORMALLY CLOSED	UH	UNIT HEATER
CFM	CUBIC FEET PER MINUTE	FLEX CONN	FLEXIBLE CONNECTOR	NIC	NOT IN CONTRACT	V	VOLT, VENT
CHR	CHILLED WATER RETURN	FLR	FLOOR	NO	NUMBER OR NORMALLY OPEN	VAG	VACUUM
CHS	CHILLED WATER SUPPLY	FOB	FLAT ON BOTTOM	NOM	NOMINAL	VAR	VARIABLE
CLG	COOLING OR CEILING	FOF	FUEL OIL FILL	NPSH	NET POSITIVE SUCTION HEAD	VAV	VARIABLE AIR VOLUME
CO	CLEANOUT	FOG	FUEL OIL GAUGE	NTS	NOT TO SCALE	VCD	VOLUME CONTROL DAMPER
COMB	COMBINATION	FOR	FUEL OIL RETURN	OA	OUTSIDE AIR	VE	VOLUME EXTRACTOR
COND	CONDENSER OR CONDENSATE	FOS	FUEL OIL SUPPLY	OAT	OUTSIDE AIR TEMPERATURE	VERT	VERTICAL
CONN	CONNECT OR CONNECTION	FOT	FLAT ON TOP	OBD	OPPOSED BLADE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
CPR	CONDENSATE PUMP RETURN	FPF	FINS PER FOOT	OD	OUTSIDE DIAMETER	VLV	VALVE
CRU	COMPUTER ROOM UNIT	FPI	FINS PER INCH	OSD	OPEN SITE DRAIN	VOL	VOLUME
CT	COOLING TOWER	FPM	FEET PER MINUTE	P	PUMP	W	WATT
CU FT	CUBIC FEET	FPS	FEET PER SECOND	PD	PRESSURE DROP	W/	WITH
CU IN	CUBIC INCH	FRK	FOIL REINFORCED KRAFT	PE	PNEUMATIC-ELECTRIC	W/O	WITHOUT
CUH	CABINET UNIT HEATER	FRP	FIBERGLASS REINFORCED PLASTIC	PG	PRESSURE GAUGE	WB	WET BULB
Cv	COEFFICIENT, VALVE FLOW	FS	FLOW SWITCH	PH	PHASE	WG	WATER GAUGE
CW	COLD WATER (CITY)	FT	FEET OR FOOT	PLUM	PLUMBING	WP	WATERPROOF, WEATHERPROOF
CWR	CONDENSER WATER RETURN (FROM COND)	FTR	FIN TUBE RADIATION	PNL	PANEL	WT	WEIGHT
CWS	CONDENSER WATER SUPPLY (TO COND)	FURN	FURNISH OR FURNACE	PP	TEMPERATURE/PRESSURE TEST PORT		
D	DRAIN	G	GAS	PR	PRESSURE REGULATOR		
DB	DRY BULB	G	GUIDE	PRESS	PRESSURE		
DBA	DECIBELS TO "A" REFERENCE	GA	GAUGE	PRV	PRESSURE REDUCING VALVE		
DBT	DRY BULB TEMPERATURE	GAL	GALLON	PS	PRESSURE SWITCH		
DC	DIRECT CURRENT	GALV	GALVANIZED	PSF	POUNDS PER SQUARE FOOT		
DC	ON CENTER	GPD	GALLONS PER DAY	PSI	POUNDS PER SQUARE INCH		
DCF	DRY-COOLER FAN	GPH	GALLONS PER HOUR	PVC	POLYVINYL CHLORIDE		
DCP	DATA CONTROL PANEL	GPM	GALLON PER MINUTE	QTY	QUANTITY		
DDC	DIRECT DIGITAL CONTROL	GR/LB	GRAINS OF MOISTURE PER LB OF DRY AIR	RA	RETURN AIR		
DEG	DEGREE	H & V	HEATING AND VENTILATING	RAD	RADLATION		
DELTA P	PRESSURE DROP	H2O	WATER	RAF	RETURN AIR FANS		
DG	DOOR GRILLE	HC	HEATING COIL	RC	RECEIVER CONTROLLER		
DHC	DUCT HEATING COIL	HD	HUB DRAIN	RCVR	RECEIVER		
DI	DIGITAL INPUT	HEX	HEXAGON	REQD	REQUIRED		
DIA	DIAMETER	HGI	HOODED GRAVITY INTAKE	REV	REVOLUTIONS		

GENERAL NOTE: (APPLIES TO BUILDINGS 13, 114, 127, 214, 216, 219, 317, 400, 419, 501, 516, 526)

1. EXISTING CEILINGS CONSIST OF PLASTER CEILINGS AT JOIST LEVEL AND ACOUSTICAL LAY-IN GRID CEILINGS BELOW. EXISTING AND NEW DUCTWORK IS RUN ABOVE THE PLASTER CEILINGS. SEE RCP NOTES ON SHEET E-501 FOR SCOPE OF CEILING WORK.

GENERAL NOTE: (APPLIES TO BUILDINGS 1106, 1107, 1309, 1310, 1409, 1410)

1. UNLESS NOTED ON PLANS, BUILDINGS HAVE PLASTER AND/OR DRYWALL CEILINGS AT JOIST LEVEL. EXISTING MECHANICAL EQUIPMENT AND NEW MECHANICAL EQUIPMENT IS BELOW THE EXISTING HARD CEILINGS. WHERE LAY-IN CEILINGS ARE INDICATED, EQUIPMENT IS RUN BETWEEN HARD CEILING AND LAY-IN CEILING BELOW. REMOVE AND REPLACE LAY-IN CEILINGS AS REQUIRED TO ACCOMMODATE THE WORK AND PATCH HARD CEILINGS AS MADE NECESSARY DUE TO WORK SHOWN.

MECHANICAL LEGEND

(APPLIES TO ALL MECHANICAL SHEETS)

	PIPE TURN DOWN
	PIPE TURN UP
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
G	NATURAL GAS
T	DDC ROOM THERMOSTAT (MOUNT 60" AFF)
	DIRECTION OF FLOW
	FLEXIBLE PIPE CONNECTION
F	FLOW SWITCH
	PIPE SENSOR
	CHECK VALVE
	SOLENOID VALVE
	STRAINER
	CIRCUIT SETTER

	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CONCENTRIC REDUCER
	PUMP
	DUCT MANUAL VOLUME DAMPER
	DUCT ELBOW WITH TURNING VANES
	RETURN AIR DUCT
	SUPPLY AIR DUCT
	EXHAUST AIR DUCT

CONTROL AND SCHEMATIC LEGEND

M	MOTORIZED DAMPER
	VOLUME DAMPER
	FLOW MEASURING STATION
	FLEXIBLE RECTANGULAR DUCT
	PIPE UNION
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE, TAPPED LUG WAFER
	BALL VALVE
	BALANCING COCK
	CHECK VALVE, HORIZONTAL SWING
	CHECK VALVE, SPRING LOADED
	AUTOMATIC CONTROL VALVE, 2-WAY, ELECTRIC
	AUTOMATIC CONTROL BALL VALVE, 2-WAY, ELECTRIC
	AUTOMATIC CONTROL BUTTERFLY VALVE, 2-WAY, ELECTRIC
	AUTOMATIC CONTROL VALVE, 3-WAY, ELECTRIC
	PRESSURE RELIEF VALVE
	STEAM PRESSURE REDUCING VALVE
	FLOW VENTURI
	CIRCUIT SETTER
	FLEXIBLE PIPE CONNECTION
	STRAINER, WYE TYPE
	PIPE CAP
	PIPE DOWN

	PIPE UP
	REDUCER, CONCENTRIC
	REDUCER, ECCENTRIC
	PRESSURE GAUGE
	THERMOMETER
	THERMOMETER WELL
PP	TEMPERATURE/PRESSURE TEST PORT
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
	PRESSURE REGULATING VALVE
	PUMP
T	THERMOSTAT
C	CARBON DIOXIDE SENSOR
H	HUMIDISTAT

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-

(1) The Contracting Officer has given prior written approval; or

(2) The information is otherwise in the public domain before the date of release.

(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.

(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-001

PROJECT NO. CP12-0091

DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES.	IM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

HVAC/DHW IMPROVEMENTS,
VARIOUS FACILITIES,
HADNOT POINT
LEGEND AND ABBREVIATIONS

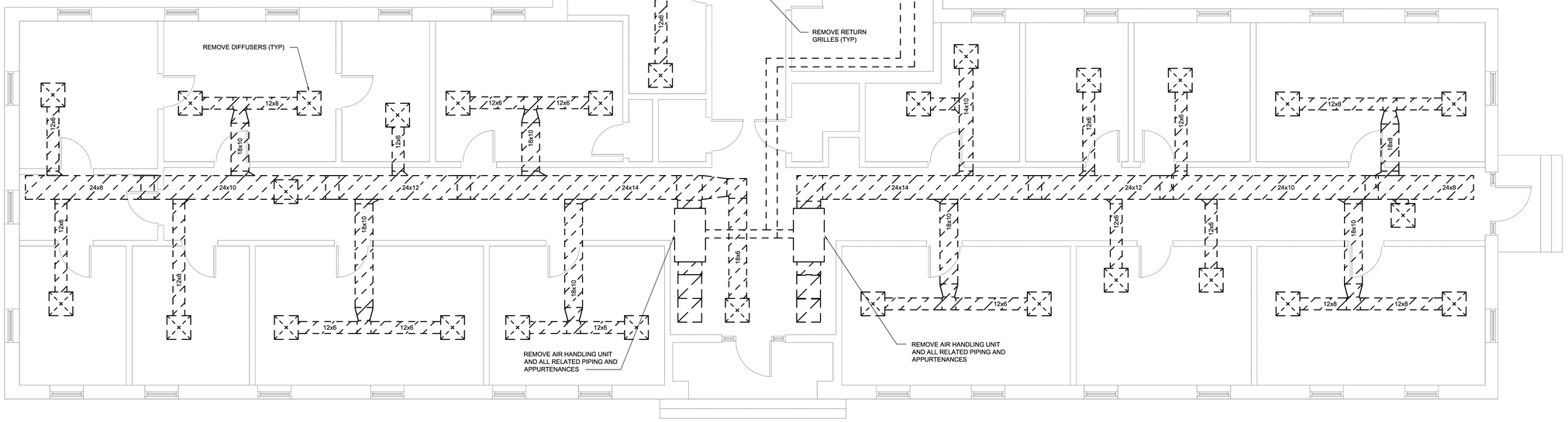
SIZE E | CODE IDENT NO. 80091 | NAVFAC DRAWING NO. 60011347
CONSTR. CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN | SPEC No. 05-12-0091 | SHEET 03 OF 84

COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL

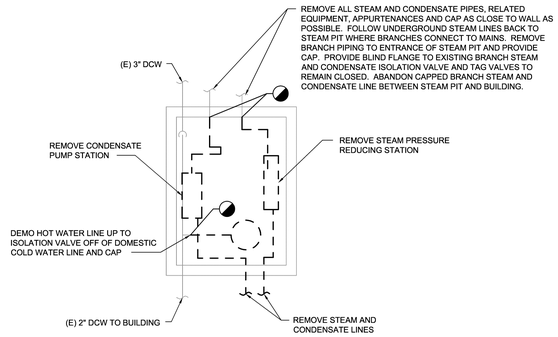
SYM.	PREP'D BY	DATE	APPROVED

DEMOLITION NOTES:

1. DUCT LOCATIONS APPROXIMATE, CONTRACTOR TO VERIFY AS NECESSARY.
2. SEAL ALL BUILDING PENETRATIONS CREATED DURING DEMOLITION AND NOT RE-USED TO INCLUDE PLASTER CEILING PENETRATIONS.
3. REMOVE ALL EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, HANGERS AND INSULATION AS SHOWN.



BUILDING 13 MECHANICAL DEMOLITION PLAN
1/4"=1'-0" 0' 2' 4' 8'



STEAM PIT DEMOLITION PLAN
1/4"=1'-0" 0' 2' 4' 8'

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:
(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-
(1) The Contracting Officer has given prior written approval; or
(2) The information is otherwise in the public domain before the date of release.
(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.
(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-101A

PROJECT NO. CP12-0091

DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

HVAC/DHW IMPROVEMENTS, VARIOUS FACILITIES, HADNOT POINT
BUILDING 13 MECHANICAL DEMOLITION PLAN

DES.	IM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

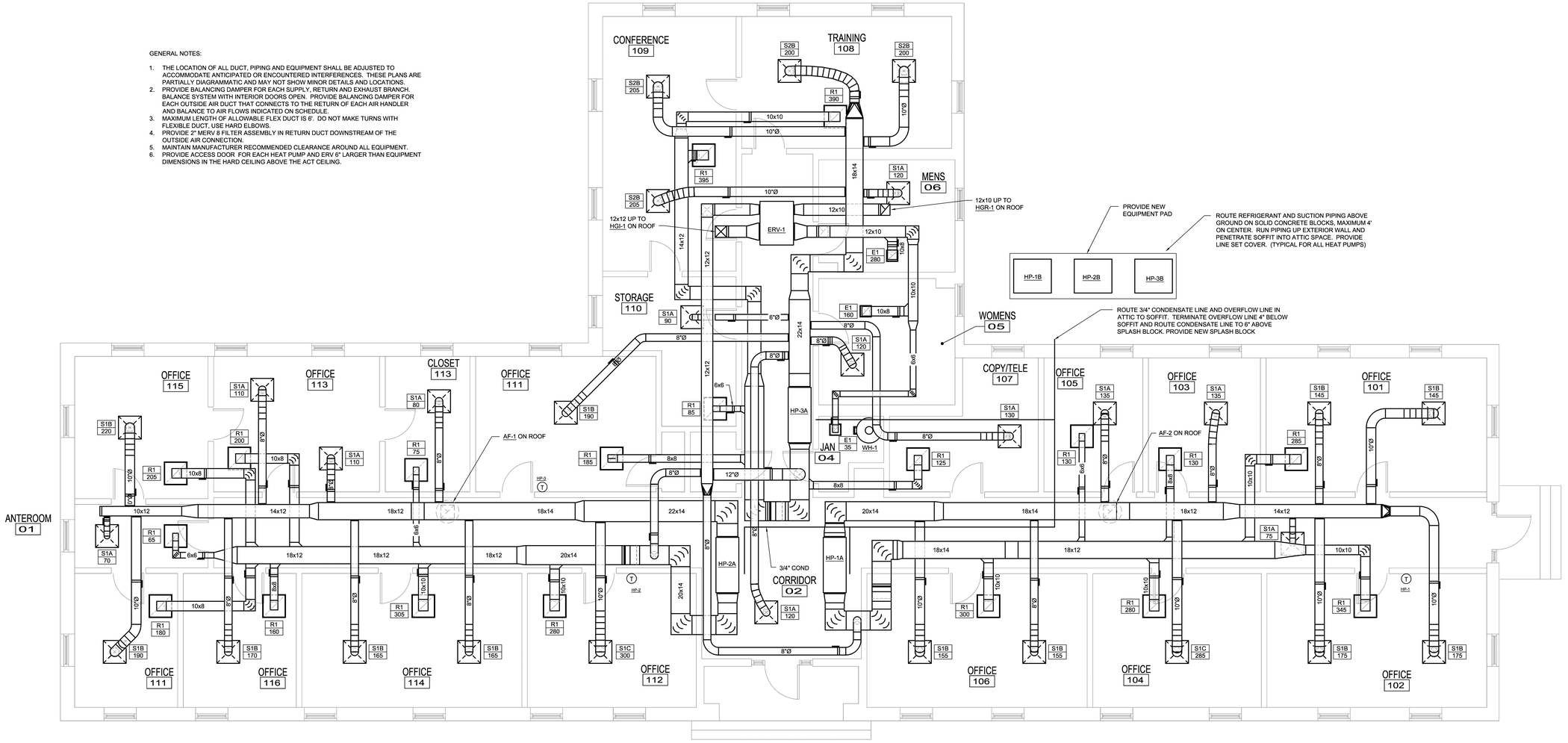
COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011348
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 04 OF 84

SYM.	PREP'D BY	DATE	APPROVED

GENERAL NOTES:

1. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES. THESE PLANS ARE PARTIALLY DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS.
2. PROVIDE BALANCING DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST BRANCH. BALANCE SYSTEM WITH INTERIOR DOORS OPEN. PROVIDE BALANCING DAMPER FOR EACH OUTSIDE AIR DUCT THAT CONNECTS TO THE RETURN OF EACH AIR HANDLER AND BALANCE TO AIR FLOWS INDICATED ON SCHEDULE.
3. MAXIMUM LENGTH OF ALLOWABLE FLEX DUCT IS 6'. DO NOT MAKE TURNS WITH FLEXIBLE DUCT, USE HARD ELBOWS.
4. PROVIDE 2" MERV 8 FILTER ASSEMBLY IN RETURN DUCT DOWNSTREAM OF THE OUTSIDE AIR CONNECTION.
5. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCE AROUND ALL EQUIPMENT.
6. PROVIDE ACCESS DOOR FOR EACH HEAT PUMP AND ERV 6" LARGER THAN EQUIPMENT DIMENSIONS IN THE HARD CEILING ABOVE THE ACT CEILING.



BUILDING 13 MECHANICAL NEW WORK PLAN

1/4"=1'-0" 0' 2' 4' 8'

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:
(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-
(1) The Contracting Officer has given prior written approval; or
(2) The information is otherwise in the public domain before the date of release.
(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.
(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-101B

PROJECT NO. CP12-0091

DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

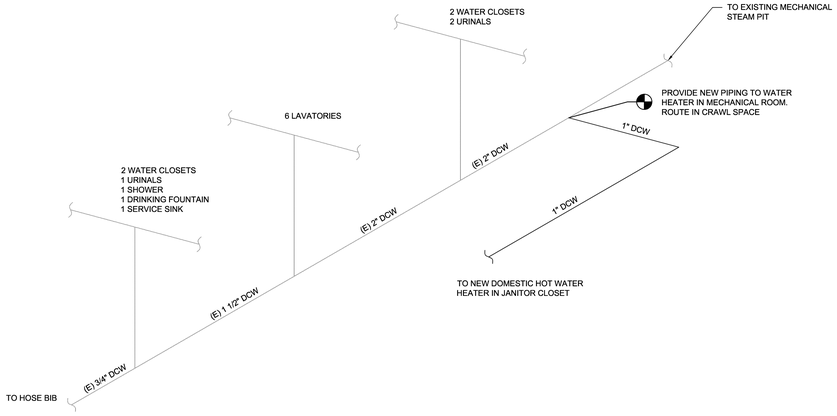
DES.	IM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

HVAC/DHW IMPROVEMENTS,
VARIOUS FACILITIES,
HADNOT POINT
BUILDING 13 MECHANICAL NEW WORK PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011349
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 05 OF 84

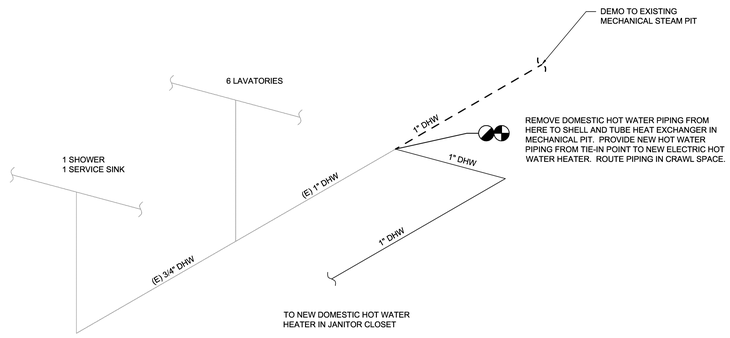
COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL

SYM.	PREP'D BY	DATE	APPROVED



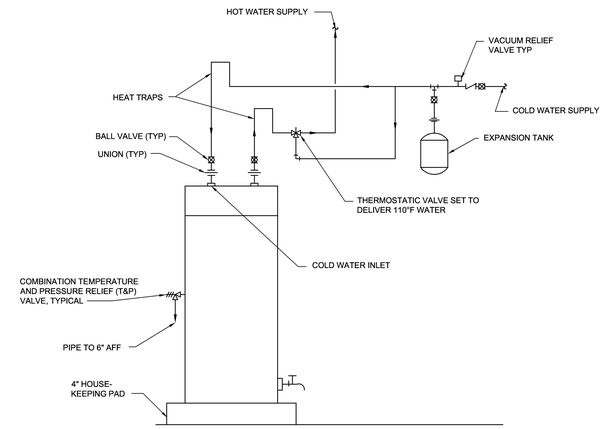
DOMESTIC COLD WATER RISER DIAGRAM

NOT TO SCALE



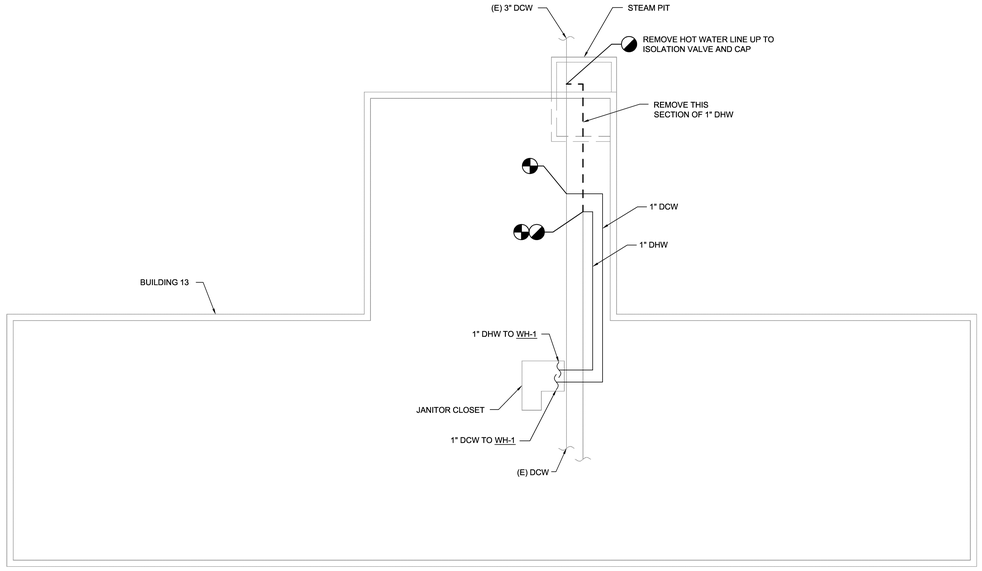
DOMESTIC HOT WATER RISER DIAGRAM

NOT TO SCALE



ELECTRIC WATER HEATER DETAIL

NOT TO SCALE



DOMESTIC WATER SITE PLAN

NOT TO SCALE

PLUMBING NOTES:

1. THE LOCATION OF ALL PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES. THESE PLANS ARE PARTIALLY DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS.
2. STORE DOMESTIC HOT WATER AT 140 DEG F AND TEMPER TO 110 DEG F BEFORE BEING SUPPLIED TO BUILDING. PROVIDE MIXING VALVE.

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:
(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-
(1) The Contracting Officer has given prior written approval; or
(2) The information is otherwise in the public domain before the date of release.
(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.
(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-101C

PROJECT NO. CP12-0091

DEPT OF NAVY — NAVAL FACILITIES ENGINEERING COMMAND

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

HVAC/DHW IMPROVEMENTS,
VARIOUS FACILITIES,
HADNOT POINT

BUILDING 13 PLUMBING PLAN, DIAGRAMS & DETAILS

DES.	JM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011350
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 06 OF 84

SYM.	PREP'D BY	DATE	APPROVED

HEAT PUMP SCHEDULE

INDOOR UNIT DESIGNATION			HP-1A	HP-2A	HP-3A
OUTDOOR UNIT DESIGNATION			HP-1B	HP-2B	HP-3B
LOCATION			VARIOUS	VARIOUS	VARIOUS
MINIMUM COMBINED SEER RATING PER ARI			17.0	17.0	17.0
MINIMUM COMBINED EER RATING PER ARI			12.2	12.2	12.2
INDOOR UNIT	EVAPORATOR	TOTAL AIRFLOW (CFM)	1580	1580	1580
		OUTSIDE AIRFLOW (CFM)	110	110	525
		EXTERNAL STATIC PRESSURE (IN-WC)	.6	.6	.6
		TOTAL COOLING CAPACITY (MBH)	47.5	47.5	47.5
		HEAT PUMP HEATING CAPACITY AT 17° F (MBH)	29.2	29.2	29.2
		ELECTRIC HEATING CAPACITY (KW)	5.0	5.0	5.0
	ELECTRICAL	BLOWER MOTOR FLA (A)	9.1	9.1	9.1
		TOTAL MCA (A)	27	27	27
		VOLTAGE	208	208	208
		PHASE	1	1	1
		FREQUENCY (Hz)	60	60	60
BASED ON			LENNOX	LENNOX	LENNOX
INDOOR UNIT MODEL			CBX32MV-048	CBX32MV-048	CBX32MV-048
REFRIGERANT			R-410A	R-410A	R-410A
OUTDOOR UNIT	AMBIENT DESIGN TEMPERATURE (DEG F)		95	95	95
	ELECTRICAL	MINIMUM CIRCUIT AMPACITY (A)	28.5	28.5	28.5
		MAXIMUM OVERCURRENT PROTECTION (A)	45	45	45
		MINIMUM HEATING COP AT 17° F	2.5	2.5	2.5
		MINIMUM HEATING COP AT 47° F	3.32	3.32	3.32
		MINIMUM HEAT PUMP HSPF	8.7	8.7	8.7
		VOLTAGE (V)	208	208	208
		PHASE	1	1	1
		FREQUENCY (Hz)	60	60	60
BASED ON			LENNOX	LENNOX	LENNOX
OUTDOOR SYSTEM MODEL			XP21-048-230	XP21-048-230	XP21-048-230
REMARKS			1, 2 & 3	1, 2 & 3	1, 2 & 3

REMARKS LEGEND:

1. PROVIDE CONDENSING UNIT SHUTOFF MOISTURE SENSOR IN AUXILLARY PORT OF INDOOR UNIT DRAIN PAN.
2. PROVIDE SECONDARY DRAIN PAN EXTENDING 4" BEYOND AIR HANDLING UNIT ON ALL SIDES.
3. PROVIDE ECM MOTOR ON INDOOR UNIT.

ENERGY RECOVERY VENTILATOR SCHEDULE

DESIGNATION		ERV-1
SUPPLY FAN	TOTAL FAN AIRFLOW (CFM)	745
	EXTERNAL STATIC PRESSURE (IN. WG)	0.5
EXHAUST FAN	TOTAL FAN AIRFLOW (CFM)	475
	EXTERNAL STATIC PRESSURE (IN. WG)	0.5
ENTHALPY WHEEL	OPERATING OUTSIDE AIRFLOW	745
	OPERATING EXHAUST AIRFLOW	475
	OUTDOOR EAT DB/WB (COOLING)	95/79
	OUTDOOR EAT DB/WB (HEATING)	20/16.6
	EXHAUST EAT DB/WB (COOLING)	75/63
	EXHAUST EAT DB/WB (HEATING)	70/53
	DELIVERED CONDITIONS DB/WB (COOLING)	83.8/70.6
	DELIVERED CONDITIONS DB/WB (HEATING)	47.9/40.2
FILTERS	SUPPLY (MERV)	8
	EXHAUST(MERV)	8
ELECTRICAL	MCA (A)	18.3
	MOCP (A)	25
	VOLTS (V)	115
	PHASE	1
	FREQUENCY (Hz)	60
BASED ON		GREENHECK
MODEL		MINIVENT-750
REMARKS:		1

REMARKS LEGEND:

1. PROVIDE FACTORY MOUNTED CONTROLS FOR UNITS INCLUDING ALL REQUIRED MOTOR STARTERS, PROVIDE FACTORY REMOTE PANEL INCLUDING INDICATION FOR DIRTY FILTER, HAND-OFF-AUTO SWITCH, AND 7 DAY TIME CLOCK.

ELECTRIC DOMESTIC WATER HEATER

DESIGNATION	WH-1
LOCATION	MECH ROOM
STORAGE (GALLONS)	60
TOTAL CAPACITY (KW)	6
RECOVERY RATE @ 90 DEG F (GPH)	27
ELECTRICAL	- -
VOLTS	208
PHASE	1
FREQUENCY (Hz)	60
REMARKS	1

REMARKS LEGEND:

1. PROVIDE 3.2 GALLON EXPANSION TANK OR LARGER SUCH AS AMTROL ST-8 OR SIMILAR.

HOODED GRAVITY INTAKE AND RELIEF SCHEDULE

DESIGNATION	HGI-1	HGR-1
USAGE	INTAKE	RELIEF
AIRFLOW (CFM)	745	475
STATIC PRESSURE (IN H2O)	.04	.041
THROAT AREA (SF)	1.45	.82
THROAT VELOCITY (FPM)	514	579
THROAT DIAMETER (IN)	16.25	12.25
SELECTION BASED ON	GREENHECK	GREENHECK
MODEL	GRSI-16	GRSR-12
REMARKS	1	1

REMARKS LEGEND:

1. PROVIDE BIRD SCREEN.

ATTIC FAN SCHEDULE

DESIGNATION	AF-1	AF-2
LOCATION	ROOF	ROOF
USAGE	ATTIC VENTILATION	ATTIC VENTILATION
FAN DATA	- -	- -
AIRFLOW (SCFM)	1700	1700
EXTERNAL SP (IN-H20)	.125	.125
RPM	1725	1725
DRIVE TYPE	DIRECT	DIRECT
MOTOR DATA	- -	- -
HORSEPOWER	1/2	1/2
RPM	1750	1750
VOLTS	115	115
PHASE	60	60
HERTZ	1	1
SELECTION BASED ON	GREENHECK	GREENHECK
MODEL	LD-120-VG	LD-120-VG
REMARKS	1, 2, 3 & 4	1, 2, 3 & 4

REMARKS LEGEND:

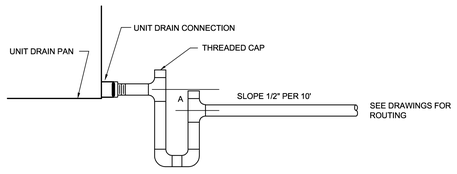
1. PROVIDE FAN WITH INTEGRAL BACK-DRAFT DAMPER, CONTINUOUS DUTY RATED.
2. PROVIDE FAN WITH FACTORY MOUNTED DISCONNECT.
3. PROVIDE FAN WITH ECM MOTOR AND WITH ADJUSTABLE SPEED.
4. PROVIDE ATTIC MOUNTED THERMOSTATIC CONTROL. SET THERMOSTAT TO OPERATE FAN WHEN ATTIC EXCEEDS 85 DEG F.

AIR TERMINAL DEVICE SCHEDULE

DESIGNATION	S1	S2	R1	E1
TYPE	SUPPLY	SUPPLY	RETURN	EXHAUST
NECK SIZE	A=6"	A=6"	24x24	12x12
	B=8"	B=8"		
	C=10"	C=10"		
	D=12"	D=12"		
FRAME STYLE	LAY-IN	LAY-IN	LAY-IN	LAY-IN
AIR PATTERN	4 WAY	4 WAY	- -	- -
MAX NC RATING	25	25	25	25
MATERIAL	STEEL	STEEL	STEEL	STEEL
FINISH	BAKED ENAMEL	BAKED ENAMEL	BAKED ENAMEL	BAKED ENAMEL
BASED ON	PRICE	PRICE	PRICE	PRICE
MODEL	SCD	VPD-HC	81 SERIES	81 SERIES
REMARKS	- -	1	- -	- -

REMARKS LEGEND:

1. PROVIDE A SELF-MODULATING DIFFUSER WITH A COOLING SET POINT OF 75 DEG F (ADJUSTABLE) AND A HEATING SET POINT OF 68 DEG F (ADJUSTABLE).

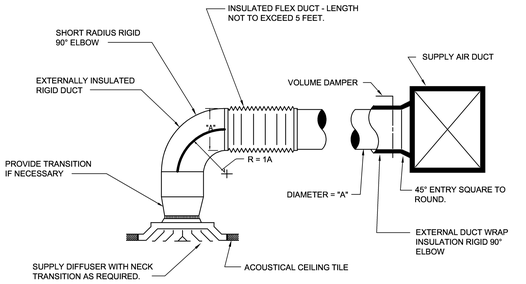


"A" = DIMENSION SHALL BE IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS, MINIMUM OF 2 INCHES.

NOTE:
CONDENSATE DRAIN PIPE SIZE SHALL BE UNIT DRAIN CONNECTION SIZE

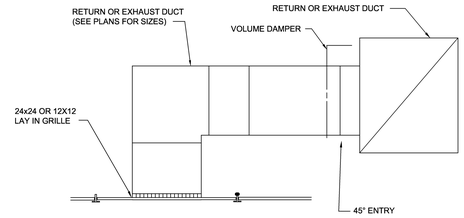
AC DRAIN FOR HEAT PUMP AIR HANDLER NEGATIVE PRESSURE DRAIN PAN

NO SCALE



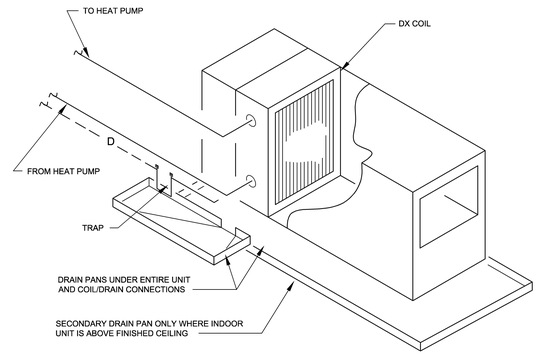
TYPICAL CEILING SUPPLY DIFFUSER CONNECTION

SCALE: NONE



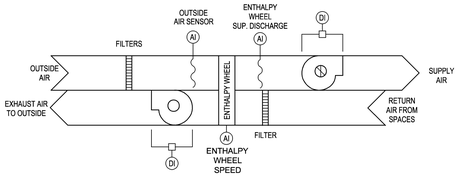
CEILING RETURN/EXHAUST GRILLE

SCALE: NONE



HEAT PUMP INDOOR UNIT DETAIL

SCALE: NONE



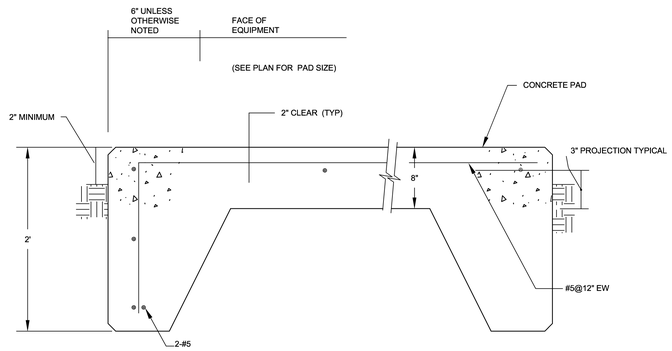
ENERGRY RECOVERY VENTILATOR CONTROL DIAGRAM

SCALE: NONE

SEQUENCE OF OPERATION:

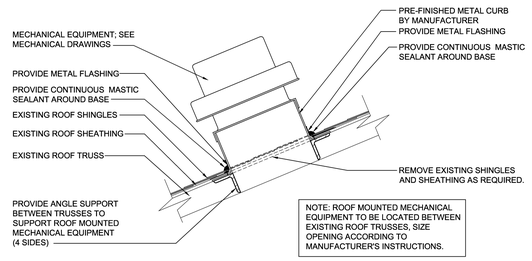
DURING THE OCCUPIED MODE, THE ENERGY RECOVERY VENTILATOR SHALL RUN CONTINUOUSLY. DURING UNOCCUPIED MODE, THE UNIT WILL BE DISABLED WHERE THE SUPPLY AND EXHAUST FANS ARE OFF AND THE WHEEL DOES NOT ROTATE.

DURING OPERATION, DIFFERENTIAL PRESSURE SENSORS SHALL BE USED TO CONFIRM STATUS OF SUPPLY AND EXHAUST FANS. A TACHOMETER SHALL BE USED TO VERIFY WHEEL OPERATION. IF AT ANY TIME THE UNIT IS COMMANDED ON AND EITHER OF THESE THREE OPERATIONAL PIECES OF THE UNIT ARE NOT FUNCTIONING, THE ENTIRE UNIT SHALL BE SHUT DOWN AND AN ALARM SENT.



EXTERIOR EQUIPMENT PAD DETAIL

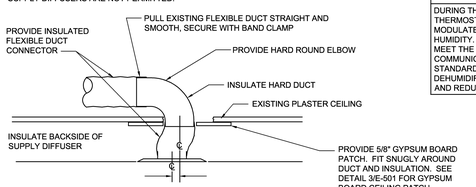
SCALE: NONE



ROOF PENETRATION DETAIL

SCALE: NONE

ENLARGE EXISTING PENETRATIONS IN CEILING TO ALIGN RUNOUTS WITH NEW DIFFUSER/GRILL LOCATIONS. PROVIDE SUPPLY DIFFUSERS AND RETURN GRILLS TO FIT CEILING. PERFORATED FACE SUPPLY DIFFUSERS ARE NOT PERMITTED.



TYP. DUCT TAKE OFF DETAIL

SCALE: NONE

SPLIT SYSTEM HEAT PUMP SEQUENCE OF OPERATIONS

DURING THE OCCUPIED MODE, THE SPLIT SYSTEM AIR HANDLER FAN SHALL RUN CONTINUOUSLY TO SATISFY ROOM COMBINED THERMOSTAT AND HUMIDISTAT. THE SUPPLY AIR FAN ECM MOTOR SHALL REMAIN ON DURING OCCUPIED MODE AND THE SPEED SHALL MODULATE ACCORDING TO THE MANUFACTURER'S STANDARD SEQUENCE OF OPERATION TO CONTROL ROOM TEMPERATURE AND LIMIT HUMIDITY. IN THE HEATING MODE, THE THERMOSTAT SHALL NOT ENERGIZE THE AUXILIARY ELECTRIC HEAT IF THE HEAT PUMP MODE CAN MEET THE DEMAND, SUCH AS DURING WARM-UP FROM NIGHT SET BACK USING A SMART RECOVERY CAPABLE THERMOSTAT. FACTORY COMMUNICATING THERMOSTAT SHALL BE PROVIDED WITH 7 DAY PROGRAMMING TO ALLOW NIGHT/WEEKEND SET-BACK, COMMUNICATE ALL STANDARD MANUFACTURER'S ALARMS FROM THE UNITS TO THE THERMOSTAT, AND INDICATE DIRTY FILTER.THERMOSTAT SHALL INCLUDE DEHUMIDIFICATION CONTROL TO INTEGRATE WITH HEAT PUMP CONTROLLER TO REDUCE FAN SPEED TO INCREASE LATENT PERFORMANCE AND REDUCE INDOOR AIR HUMIDITY.

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-
(1) The Contracting Officer has given prior written approval; or
(2) The information is otherwise in the public domain before the date of release.
(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.
(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-101D

PROJECT NO. CP12-0091

DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

HVAC/DHW IMPROVEMENTS, VARIOUS FACILITIES, HADNOT POINT
BUILDING 13 SCHEDULES, DETAILS & CONTROLS

DES.	IM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

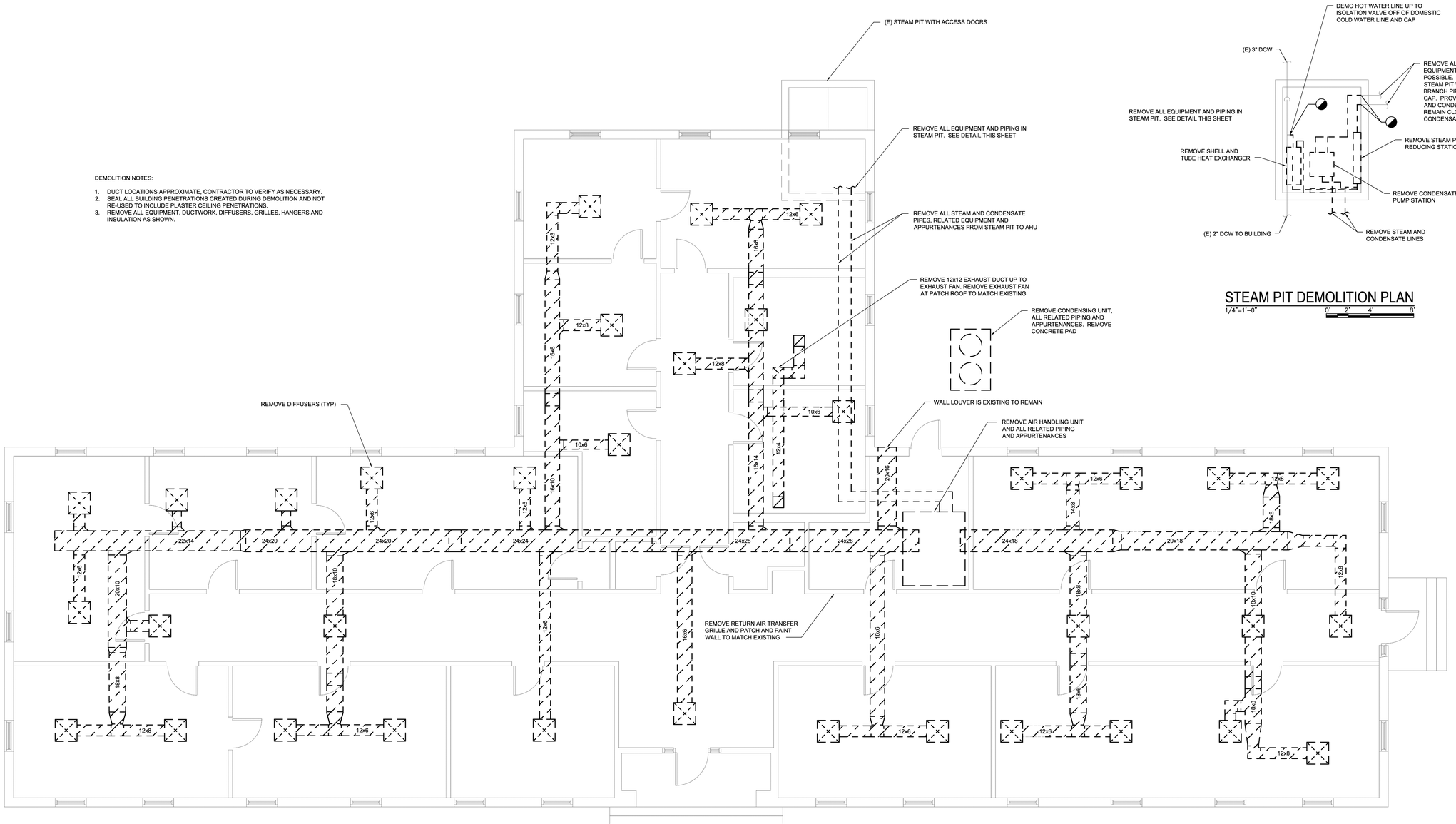
COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011351
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 07 OF 84

SYM.	PREP'D BY	DATE	APPROVED

DEMOLITION NOTES:

1. DUCT LOCATIONS APPROXIMATE, CONTRACTOR TO VERIFY AS NECESSARY.
2. SEAL ALL BUILDING PENETRATIONS CREATED DURING DEMOLITION AND NOT RE-USED TO INCLUDE PLASTER CEILING PENETRATIONS.
3. REMOVE ALL EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, HANGERS AND INSULATION AS SHOWN.



STEAM PIT DEMOLITION PLAN

1/4"=1'-0" 0' 2' 4' 8'

BUILDING 114 MECHANICAL DEMOLITION PLAN

1/4"=1'-0" 0' 2' 4' 8'

DISCLOSURE OF INFORMATION
Contractor shall comply as follows:

(a) The Contractor shall not release to anyone outside the Contractor's organization any unclassified information, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract, unless-

(1) The Contracting Officer has given prior written approval; or

(2) The information is otherwise in the public domain before the date of release.

(b) Requests for approval shall identify the specific information to be released, the medium to be used, and the purpose for the release. The Contractor shall submit its request to the Contracting Officer at least 45 days before the proposed date for release.

(c) The Contractor agrees to include a similar requirement in each subcontract under this contract. Subcontractors shall submit requests for authorization to release through the prime contractor to the Contracting Officer.

Wiley|Wilson
6606 West Broad St., Suite 500
Richmond, Virginia 23230-1717
804.254.7242
wileywilson.com

M-102A

PROJECT NO. CP12-0091

DEPT OF NAVY
NAVAL FACILITIES ENGINEERING COMMAND
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

DES.	IM
DR.	SWL
CHK.	JHE
SUBMITTED BY:	
DESIGN DIR.	
APPROVED: PWO OR OICC	DATE
SATISFACTORY TO	DATE

HVAC/DHW IMPROVEMENTS,
VARIOUS FACILITIES,
HADNOT POINT
BUILDING 114 MECHANICAL DEMOLITION PLAN

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
E	80091	60011352
		CONSTR CONTR NO. N40085-12-B-0091
SCALE: AS SHOWN	SPEC No. 05-12-0091	SHEET 08 OF 84

COMMONWEALTH OF VIRGINIA
IOANNIS MASOURAS
Lic. No. 035863
8/22/12
PROFESSIONAL ENGINEER
SEAL