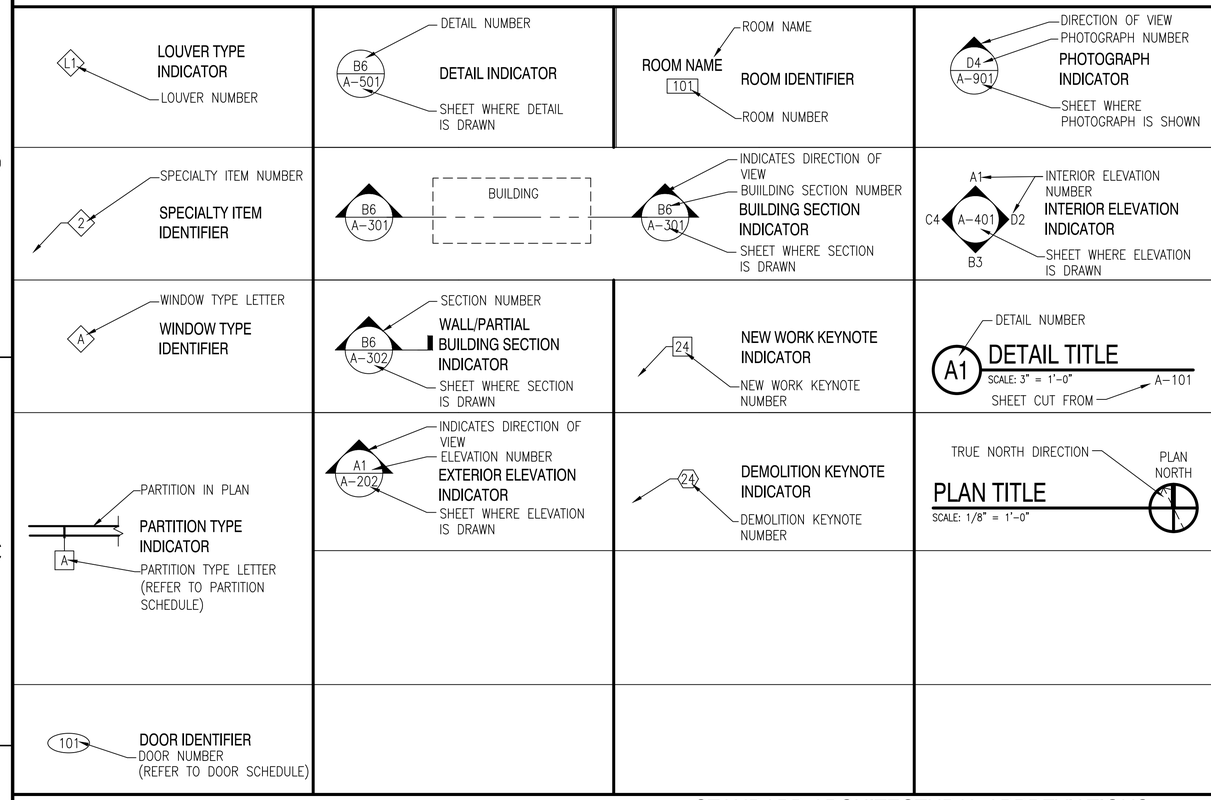
STANDARD ARCHITECTURAL SYMBOLS



STANDARD MATERIALS LEGEND

SECTION VIEW		WOOD – ROUGH		WOOD BLOCKING
		CONCRETE MASONRY UNIT		BRICK
		CAST-IN-PLACE CONCRETE		PLYWOOD–LARGE SCALE
		STEEL		GLASS–LARGE SCALE
		EARTH/COMPACT FILL		ACOUSTICAL TILE
		BATT/LOOSE FILL INSULATION		PLYWOOD–SMALL SCALE
		POROUS FILL/GRAVEL		CERAMIC TILE–LARGE SCALE
		RIGID INSULATION		SAND/MORTAR/PLASTER
		GYPSUM BOARD		
		RESILIENT FLOORING/ PLASTIC LAMINATE		
		ALUMINUM		
		FINISHED WOOD		
		MARBLE		
ELEVATION/PLAN VIEW		CONCRETE/GYPSUM BOARD		
		SHEET METAL–LARGE SCALE		
		GLASS		

GENERAL ARCHITECTURAL NOTES

1. ALL ITEMS INDICATED TO BE REMOVED SHALL BE DISPOSED OF OFF SITE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. ALL MATERIALS SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE GOVERNMENT.
3. ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS SHALL BE CONTINUOUS UNLESS SPECIFICALLY NOTED OTHERWISE.
4. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO PROCEEDING WITH THE WORK. DIMENSIONS FOR EXISTING WORK ARE APPROXIMATE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER IN WRITING.
5. DEMOLITION OF PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS IS NOT INTENDED TO INCLUDE ALL NECESSARY DEMOLITION WORK FOR THESE ITEMS. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
6. DIMENSIONS INDICATED FOR NEW WORK ARE TO FACE OF STUD, FACE OF MASONRY OR FACE OF EXISTING SURFACES UNLESS OTHERWISE NOTED.

STANDARD ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT	CNSTR	CONSTRUCTION	FIN	FNISH	MTL	METAL	PEJ	PREMOLDED EXPANSION JOINT	STD	STANDARD
ACS PNL	ACCESS PANEL	CONT	CONTINUE	FG	FIGURE	MFG	MANUFACTURING	PL	PROPERTY LINE	STOR	STORAGE
ADJ	ADJUSTABLE	CORR	CORRIDOR	FIN FLR	FINISHED FLOOR	MIN	MINIMUM, MINUTE	PLAS	PLASTER, PLASTIC	STR	STRAIGHT STRIKE, STRINGERS
ALUM	ALUMINUM	CPT	CARPET	FOF	FACE OF FINISH	MISC	MISCELLANEOUS	PLYWD	PLYWOOD	SUSP	SUSPEND
ALT	ALTERNATE, ALTITIUDE	CT	CERAMIC TILE	FOM	FACE OF MASONRY	MO	MOTOR OPERATED, MASONRY OPENING	PNL	PANEL	T&B	TOP AND BOTTOM
ANOD	ANODIZED	CTR	CENTER	FOS	FACE OF STUD, FACE OF SLAB			PRELIM	PRELIMINARY	TEL	TELEPHONE
APPROX	APPROXIMATE	D	DEPTH, DEEP	FR	FRAME, FIRE RATING, FIRE RESISTANT	MTD	MOUNTED	PSF	POUNDS PER SQUARE FOOT	TOS	TOP OF SLAB/STEEL
ARCH	ARCHITECT	DEG	DEGREE	FRTW	FIRE RETARDANT TREATED WOOD	MTG	MOUNTNG, MEETING	PSI	POUNDS PER SQUARE INCH	THRES	THRESHOLD
ASPH	ASPHALT	DEMO	DEMOLITION	FT	FOOT, FEET	MWP	MEMBRANE WATERPROOFING	PT	PAINT	THRU	THROUGH
ATC	ACOUSTICAL TILE CEILING	DET	DETAIL	FTG	FOOTING	N	NORTH	QT	QUARRY TILE	TYP	TYPICAL
BD	BOARD	DIA	DIAMETER	GA	GAGE	NIC	NOT IN CONTRACT	R	RADIUS, RISER	UON	UNLESS OTHERWISE NOTED
BLDG	BUILDING	DIM	DIMENSION	GALV	GALVANIZED	NO	NUMBER	RA	RETURN AIR	V	VOLT
BLW	BELOW	DS	DOWNSPOUT	GFCI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	NOM	NOMINAL	RAD	RETURN AIR DUCT	VAR	VARIATION
BM	BEAM	DW	DISHWASHER			NTS	NOT TO SCALE	RB	RESILIENT BASE	VB	VINYL BASE
BOT	BOTTOM	DR	DRAIN	GL	GLASS, GROUND LEVEL	OA	OUTSIDE AIR	RD	ROOF DRAIN, ROAD	VCT	VINYL COMPOSITION TILE
BOS	BOTTOM OF SLAB/STEEL	DWG	DRAWING	GR	GROSS	OC	ON CENTER	REFL	REFLECT	VENT	VENTILATION, VENTILATOR
BRG	BEARING	E	EAST	GSU	GLAZED STRUCTURAL UNIT	OD	OUTSIDE DIAMETER/DIMENSION	REFR	REFRIGERATION	VERT	VERTICAL
BSMT	BASEMENT	EA	EACH	GYP	GYPSUM			REINF	REINFORCE	VEST	VESTIBULE
BTWN	BETWEEN	EIFS	EXTERIOR INSULATION & FINISH	H, HGT	HIGH, HEIGHT	OPH	OPPOSITE HAND	REQD	REQUIRED	VS	VENT STACK
C TO C	CENTER TO CENTER			HB	HOSE BIB	OPNG	OPENING	REV	REVISION	VTR	VENT THROUGH ROOF
CAB	CABINET	EJ	EXPANSION JOINT	HDW	HARDWARE	OPP	OPPOSITE	RF	RESILIENT FLOORING	VWC	VINYL WALL COVERING
CEM	CEMENT	EL	ELEVATION	HM	HOLLOW METAL	OPT	OPTIONAL	RL	ROOF LEADER	W	WASTE, WATT, WEST, WIDE
CER	CERAMIC	ELEC	ELECTRIC	HORIZ	HORIZONTAL	PCT	PERCENT	RM	ROOM	W/	WITH
CI	CAST IRON	EPDM	ETHLENE PROPYLENE DIENE MONOMER	HW	HOT WATER	PEJ	PREMOLDED EXPANSION JOINT	RND	ROUND	W/O	WITHOUT
CIP	CAST IRON PIPE			HVY	HEAVY	PL	PROPERTY LINE	RO	ROUGH OPENING	WC	WATER CLOSET, WALL COVERING
CJ	CONTROL JOINT,CONSTRUCTION JOINT	EQ	EQUAL	ID	INSIDE DIAMETER	PLAS	PLASTER, PLASTIC	RS	ROUGH SAWN	WD	WOOD
CLG	CEILING	EQUIP	EQUIPMENT	INSUL	INSULATION, INSULATED	PLYWD	PLYWOOD	RT	RIGHT	WH	WATER HEATER
CLG REG	CEILING REGISTER	EW	EACH WAY	INT	INTERIOR	PNL	PANEL	S	SOUTH	WP	WATERPROOFING, WEATHERPROOF, WORKING POINT
CLR	CLEAR	EWC	ELECTRIC WATER COOLER	J-BOX	JUNCTION BOX	PRELIM	PRELIMINARY	SAPC	SUSPENDED ACOUSTICAL PANEL CEILING		
CMU	CONCRETE MASORY UNIT	EXH	EXHAUST	JAN CLO	JANITOR CLOSET	PSF	POUNDS PER SQUARE FOOT	SCHED	SCHEDULE	WSCT	WAINSCOT
CND	CONDUIT	EXIST	EXISTING	LAV	LAVATORY	PSI	POUNDS PER SQUARE INCH	SECT	SECTION	WT	WEIGHT
CNDS	CONDENSATE	EXP	ESPANSION, EXPOSED, EXPAND	LB	POUND	PT	PAINT	SF	SQUARE FOOT	WWF	WELDED WIRE FABRIC
CNTR	COUNTER	EXT	EXTERIOR	LT	LIGHT	OPH	OPPOSITE HAND	SH	SHINGLES, SINGLE HUNG	XRMR	TRANSFORMER
CO	CLEANOUT	FD	FLOOR DRAIN	MACH	MACHINE	OPNG	OPENING	SIM	SIMILAR		
COL	COLUMN	FDTN	FOUNDATION	MATL	MATERIAL	OPP	OPPOSITE	SPC	SUSPENDED PLASTER CEILING		
CONC	CONCRETE	FF	FINISH FACE, FINISH FLOOR	MAX	MAXIMUM	OPT	OPTIONAL	SPEC	SPECIFICATION		
CONN	CONNECT	FHC	FIRE HOSE CABINET	MECH	MECHANICAL	PCT	PERCENT	SQ	SQUARE		

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO.

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW -- CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT

WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

ARCHITECTURAL SYMBOLS, LEGENDS, ABBREVIATIONS & NOTES

SCALE: N/A

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708292

SHEET 40 OF 120

A-001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Skeeter\LineRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-001.dwg LAYOUT NAME: A-001 ARCHITECTURAL SYMBOLS LEGENDS ABBREVIATIONS & NOTES PLOTTED: Friday, December 04, 2015 - 12:39pm USER: allen.kline

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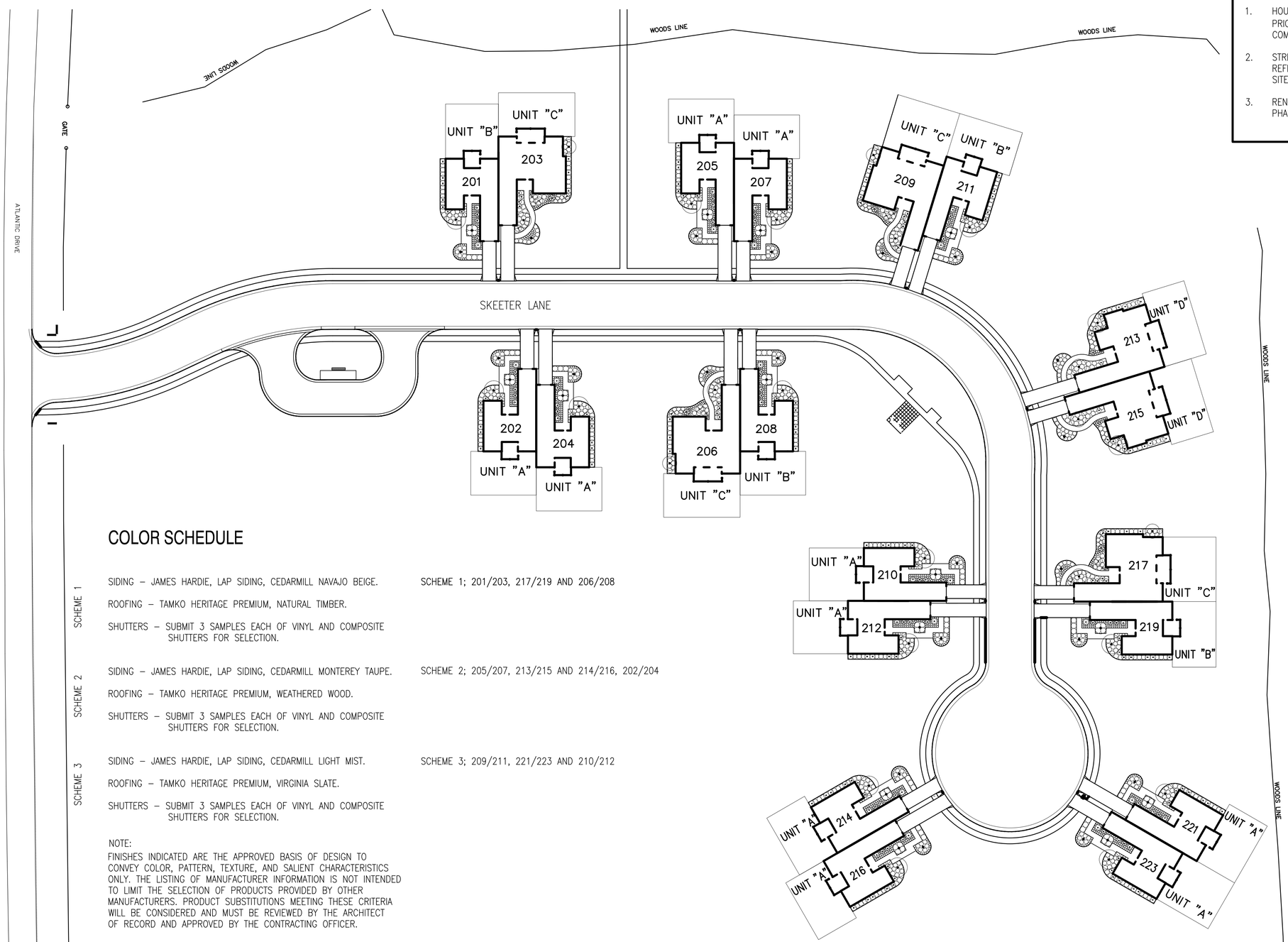


GENERAL SHEET NOTES

1. HOUSING UNITS ARE SHOWN IN EXISTING CONFIGURATIONS PRIOR TO MODIFICATIONS. UNITS IDENTIFIED AS "A" WILL BE COMBINED INTO ONE HOUSING UNIT.
2. STREET ADDRESSES ARE SHOWN WITHIN THE UNIT FOOTPRINT. REFER TO CS101 – CS108 FOR RENOVATED FOOTPRINT AND SITE IMPROVEMENTS.
3. RENOVATE HOUSING UNITS IN THE ORDER LISTED UNDER PHASING SCHEDULE.

PHASING SCHEDULE

1. RENOVATE 209 AND 211.
2. RENOVATE 221 AND 223.
3. RENOVATE 205 AND 207.
4. RENOVATE 217 AND 219.
5. RENOVATE 214 AND 216.
6. RENOVATE 210 AND 212.
7. RENOVATE 206 AND 208.
8. RENOVATE 213 AND 215.
9. RENOVATE 202 AND 204.
10. RENOVATE 201 AND 203.

COLOR SCHEDULE

SCHEME 1	SIDING – JAMES HARDIE, LAP SIDING, CEDARMILL NAVAJO BEIGE. ROOFING – TAMKO HERITAGE PREMIUM, NATURAL TIMBER. SHUTTERS – SUBMIT 3 SAMPLES EACH OF VINYL AND COMPOSITE SHUTTERS FOR SELECTION.	SCHEME 1; 201/203, 217/219 AND 206/208
SCHEME 2	SIDING – JAMES HARDIE, LAP SIDING, CEDARMILL MONTEREY TAUPE. ROOFING – TAMKO HERITAGE PREMIUM, WEATHERED WOOD. SHUTTERS – SUBMIT 3 SAMPLES EACH OF VINYL AND COMPOSITE SHUTTERS FOR SELECTION.	SCHEME 2; 205/207, 213/215 AND 214/216, 202/204
SCHEME 3	SIDING – JAMES HARDIE, LAP SIDING, CEDARMILL LIGHT MIST. ROOFING – TAMKO HERITAGE PREMIUM, VIRGINIA SLATE. SHUTTERS – SUBMIT 3 SAMPLES EACH OF VINYL AND COMPOSITE SHUTTERS FOR SELECTION.	SCHEME 3; 209/211, 221/223 AND 210/212

NOTE:
FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE, AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE ARCHITECT OF RECORD AND APPROVED BY THE CONTRACTING OFFICER.

ARCHITECTURAL SITE PLAN

SCALE: NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DFW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

ARCHITECTURAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

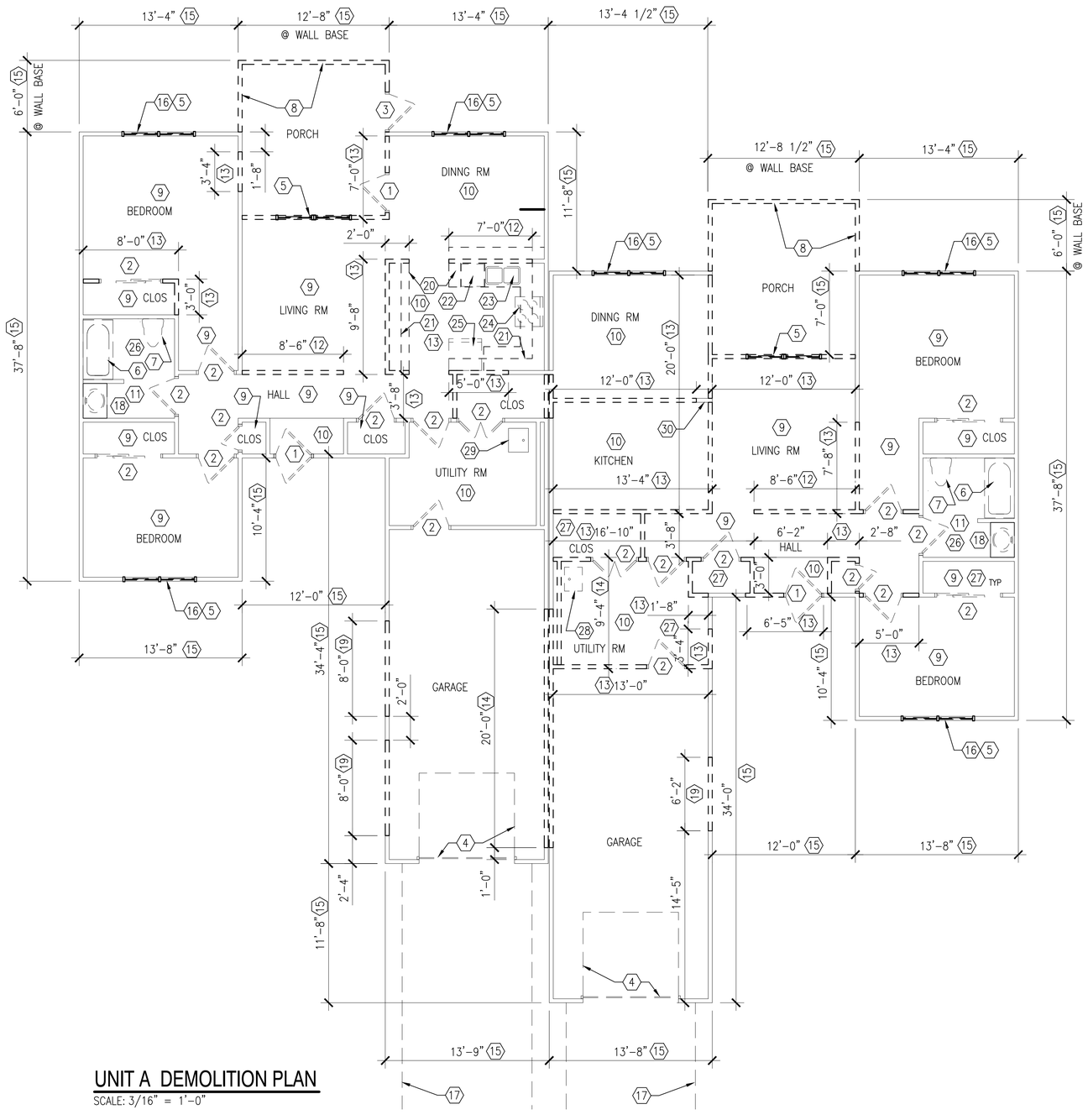
NAVFAC DRAWING NO.
12708293

SHEET 41 OF 120

AS101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovationsConversion\B_Design\Drawings\Sheet Files\08_Architecture\P1602-1366573-AS101.dwg LAYOUT NAME: AS101 PLOTTED: Friday, December 04, 2015 - 1:10pm USER: allen.kline



UNIT A DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL DIMENSIONS ARE APROXIMATE. FIELD VERIFY PRIOR TO DEMOLITION. BRING DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION.
2. KITCHEN DEMOLITION NOTES ARE TYPICAL FOR ALL UNITS.

DEMOLITION KEYNOTES

1. REMOVE EXTERIOR H.M. DOOR (INCLUDING STORM DOOR AT MAIN ENTRANCE), DOOR TRIM AND HARDWARE.
2. REMOVE INTERIOR DOORS INCLUDING TRIM AND HARDWARE.
3. REMOVE SCREENED PORCH DOOR, TRIM AND HARDWARE.
4. REMOVE GARAGE DOOR, DOOR TRACK, TRIM AND HARDWARE.
5. REMOVE WINDOW AND WINDOW BLINDS.
6. REMOVE TUB.
7. REMOVE TOILET.
8. DEMOLISH WOOD FRAMED SCREENED PORCH AND CEILING.
9. REMOVE CARPET AND PAD WHERE INDICATED.
10. REMOVE VINYL FLOORING WHERE INDICATED.
11. REMOVE CERAMIC TILE FLOORING AND TILE BASE WHERE INDICATED.
12. DEMOLISH 36" HIGH WOOD STUD AND GYPSUM WALLBOARD PARTITION WITH SOLID WOOD CAP WHERE INDICATED.
13. DEMOLISH WOOD STUD PARTITION WITH GYPSUM WALLBOARD EACH SIDE WHERE INDICATED (8'+/- HIGH).
14. DEMOLISH WOOD STUD PARTITION WITH GYPSUM WALLBOARD ON FINISHED SIDE OF PARTY WALL (8'+/- HIGH).
15. REMOVE EXTERIOR VINYL SIDING AND TRIM.
16. REMOVE WINDOW SHUTTERS.
17. DEMOLISH DRIVEWAY. REFER TO CS104 FOR ADDITIONAL INFORMATION.
18. REMOVE SINK, VANITY, MIRROR AND TOILET ACCESSORIES.
19. DEMOLISH WOOD STUD WALL WITH GYPSUM WALLBOARD INTERIOR SHEATHING AND PLYWOOD EXTERIOR SHEATHING. COORDINATE WITH NEW GARAGE DOOR HEIGHT.
20. REMOVE BASE CABINETS, TYPICAL BOTH UNITS.
21. REMOVE WALL MOUNTED CABINETS TYPICAL BOTH UNITS.
22. REMOVE DISHWASHER, TYPICAL BOTH UNITS.
23. REMOVE DOUBLE BOWL SINK, TYPICAL BOTH UNITS.
24. REMOVE RANGE, TYPICAL BOTH UNITS.
25. REMOVE REFRIGERATOR, TYPICAL BOTH UNITS.
26. REMOVE WALL TILE AND SUBSTRATE IN BATHROOMS TO EXPOSE STUDS.
27. REMOVE WIRE SHELVING FROM CLOSETS, STORAGE AND UTILITY ROOM.
28. REMOVE UTILITY SINK.
29. EXISTING UTILITY SINK TO REMAIN.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT A DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

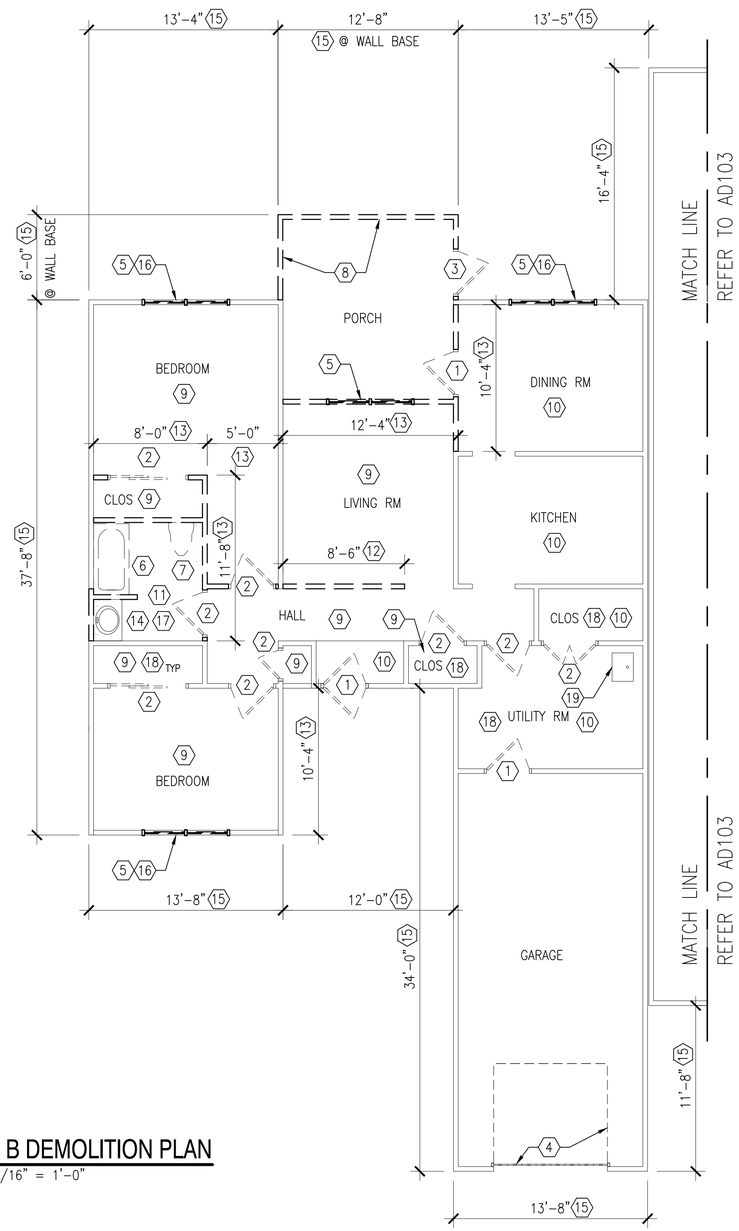
NAVFAC DRAWING NO. 12708294

SHEET 42 OF 120

AD101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SheterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architecture\P1602-1366573-AD101.dwg LAYOUT NAME: AD101 PLOTTED: Friday, December 04, 2015 - 12:59pm USER: allen.kline



UNIT B DEMOLITION PLAN

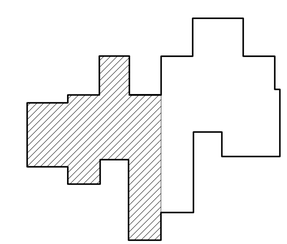
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL DIMENSIONS ARE APROXIMATE. FIELD VERIFY PRIOR TO DEMOLITION. BRING DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION.
2. REFER TO AD101 FOR TYPICAL KITCHEN DEMOLITION.

DEMOLITION KEYNOTES

1. REMOVE EXTERIOR H.M. DOOR (INCLUDING STORM DOOR AT MAIN ENTRANCE), DOOR TRIM AND HARDWARE.
2. REMOVE INTERIOR DOORS INCLUDING TRIM AND HARDWARE.
3. REMOVE SCREENED PORCH DOOR, TRIM AND HARDWARE.
4. REMOVE GARAGE DOOR, DOOR TRACK, TRIM AND HARDWARE.
5. REMOVE WINDOW AND WINDOW BLINDS.
6. REMOVE TUB.
7. REMOVE TOILET.
8. DEMOLISH WOOD FRAMED SCREENED PORCH AND CEILING.
9. REMOVE CARPET AND PAD WHERE INDICATED.
10. REMOVE VINYL FLOORING WHERE INDICATED.
11. REMOVE CERAMIC TILE FLOORING AND TILE BASE WHERE INDICATED.
12. DEMOLISH 36" HIGH WOOD STUD AND GYPSUM BOARD PARTITION WITH SOLID WOOD CAP WHERE INDICATED.
13. DEMOLISH WOOD STUD PARTITION WITH GYPSUM BOARD EACH SIDE WHERE INDICATED (8'+/-HIGH).
14. REMOVE SINK, VANITY, MIRROR AND TOILET ACCESSORIES.
15. REMOVE EXTERIOR VINYL SIDING AND TRIM.
16. REMOVE WINDOW SHUTTERS.
17. REMOVE WALL TILE AND SUBSTRATE IN BATHROOMS TO EXPOSE STUDS.
18. REMOVE WIRE SHELVING FROM CLOSETS, STORAGE AND UTILITY ROOM.
19. EXISTING UTILITY SINK TO REMAIN.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT B DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708295

SHEET 43 OF 120

AD102

DRAWFORM REVISION: 10 MARCH 2009

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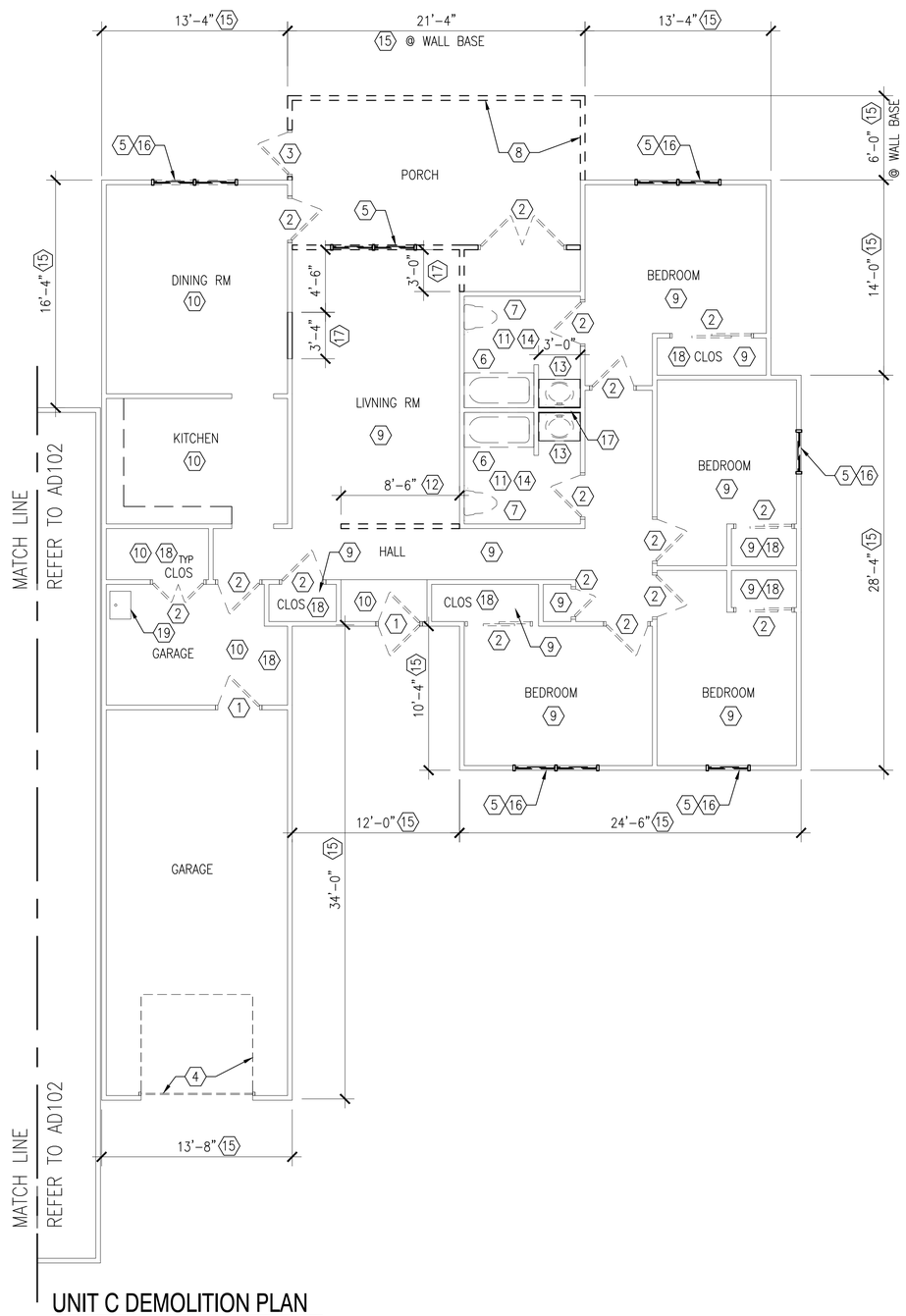


UNIT C DEMOLITION PLAN

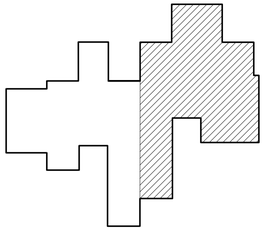
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL DIMENSIONS ARE APROXIMATE. FIELD VERIFY PRIOR TO DEMOLITION. BRING DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION.
2. REFER TO AD101 FOR TYPICAL KITCHEN DEMOLITION.

DEMOLITION KEYNOTES

1. REMOVE EXTERIOR H.M. DOOR (INCLUDING STORM DOOR AT MAIN ENTRANCE), DOOR TRIM AND HARDWARE.
2. REMOVE INTERIOR DOORS INCLUDING TRIM AND HARDWARE.
3. REMOVE SCREENED PORCH DOOR, TRIM AND HARDWARE.
4. REMOVE GARAGE DOOR, DOOR TRACK, TRIM AND HARDWARE.
5. REMOVE WINDOW AND WINDOW BLINDS.
6. REMOVE TUB.
7. REMOVE TOILET.
8. DEMOLISH WOOD FRAMED SCREENED PORCH AND CEILING.
9. REMOVE CARPET AND PAD WHERE INDICATED.
10. REMOVE VINYL FLOORING WHERE INDICATED.
11. REMOVE CERAMIC TILE FLOORING AND TILE BASE WHERE INDICATED.
12. DEMOLISH 36" HIGH WOOD STUD AND GYPSUM WALLBOARD PARTITION WITH SOLID WOOD CAP WHERE INDICATED.
13. REMOVE SINK, VANITY, MIRROR AND TOILET ACCESSORIES.
14. REMOVE WALL TILE AND SUBSTRATE IN BATHROOMS TO EXPOSE STUDS.
15. REMOVE EXTERIOR VINYL SIDING AND TRIM.
16. REMOVE WINDOW SHUTTERS.
17. DEMOLISH WOOD STUD PARTITION.
18. REMOVE WIRE SHELVING FROM CLOSETS, STORAGE AND UTILITY ROOM.
19. EXISTING UTILITY SINK TO REMAIN.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

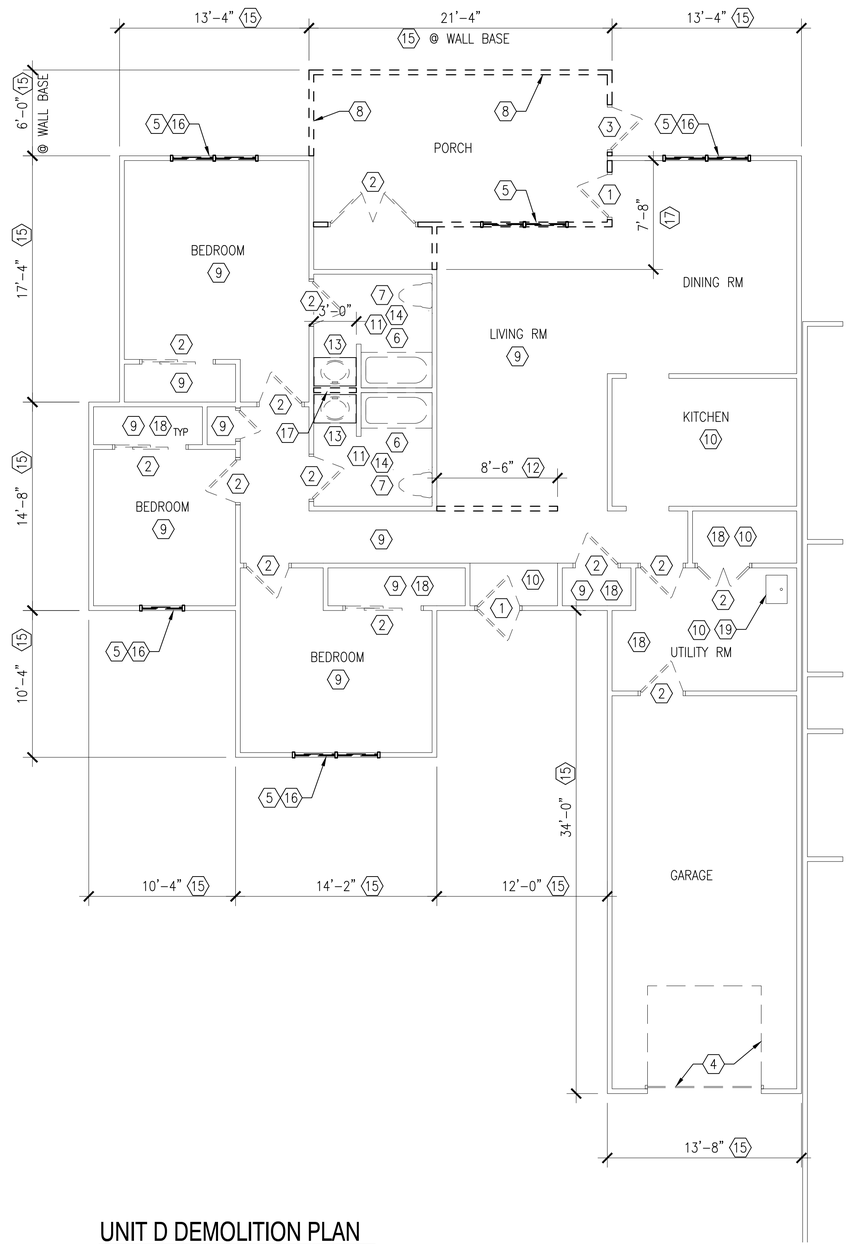
NAVFAC DRAWING NO. 12708296

SHEET 44 OF 120

AD103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-AD103.dwg LAYOUT NAME: AD103 PLOTTED: Friday, December 04, 2015 - 1:01pm USER: allen.kline



UNIT D DEMOLITION PLAN

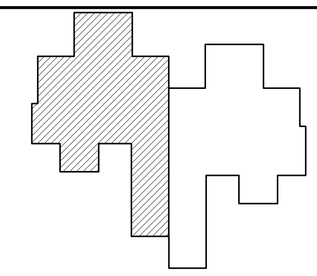
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL DIMENSIONS ARE APROXIMATE. FIELD VERIFY PRIOR TO DEMOLITION. BRING DISCREPANCIES TO THE ATTENTION OF THE CONTRACTING OFFICER IN WRITING PRIOR TO DEMOLITION.
2. REFER TO AD101 FOR TYPICAL KITCHEN DEMOLITION.

DEMOLITION KEYNOTES

1. REMOVE EXTERIOR H.M. DOOR (INCLUDING STORM DOOR AT MAIN ENTRANCE), DOOR TRIM AND HARDWARE.
2. REMOVE INTERIOR DOORS INCLUDING TRIM AND HARDWARE.
3. REMOVE SCREENED PORCH DOOR, TRIM AND HARDWARE.
4. REMOVE GARAGE DOOR, DOOR TRACK, TRIM AND HARDWARE.
5. REMOVE WINDOW AND WINDOW BLINDS.
6. REMOVE TUB.
7. REMOVE TOILET.
8. DEMOLISH WOOD FRAMED SCREENED PORCH AND CEILING.
9. REMOVE CARPET AND PAD WHERE INDICATED.
10. REMOVE VINYL FLOORING WHERE INDICATED.
11. REMOVE CERAMIC TILE FLOORING AND TILE BASE WHERE INDICATED.
12. DEMOLISH 36" HIGH WOOD STUD AND GYPSUM WALLBOARD PARTITION WITH SOLID WOOD CAP WHERE INDICATED.
13. REMOVE SINK, VANITY, MIRROR AND TOILET ACCESSORIES.
14. REMOVE WALL TILE AND SUBSTRATE IN BATHROOMS TO EXPOSE WOOD STUDS.
15. REMOVE EXTERIOR VINYL SIDING AND TRIM.
16. REMOVE WINDOW SHUTTERS.
17. DEMOLISH WOOD STUD PARTITION.
18. REMOVE WIRE SHELVING IN CLOSETS, STORAGE AND UTILITY ROOM.
19. EXISTING UTILITY SINK TO REMAIN.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

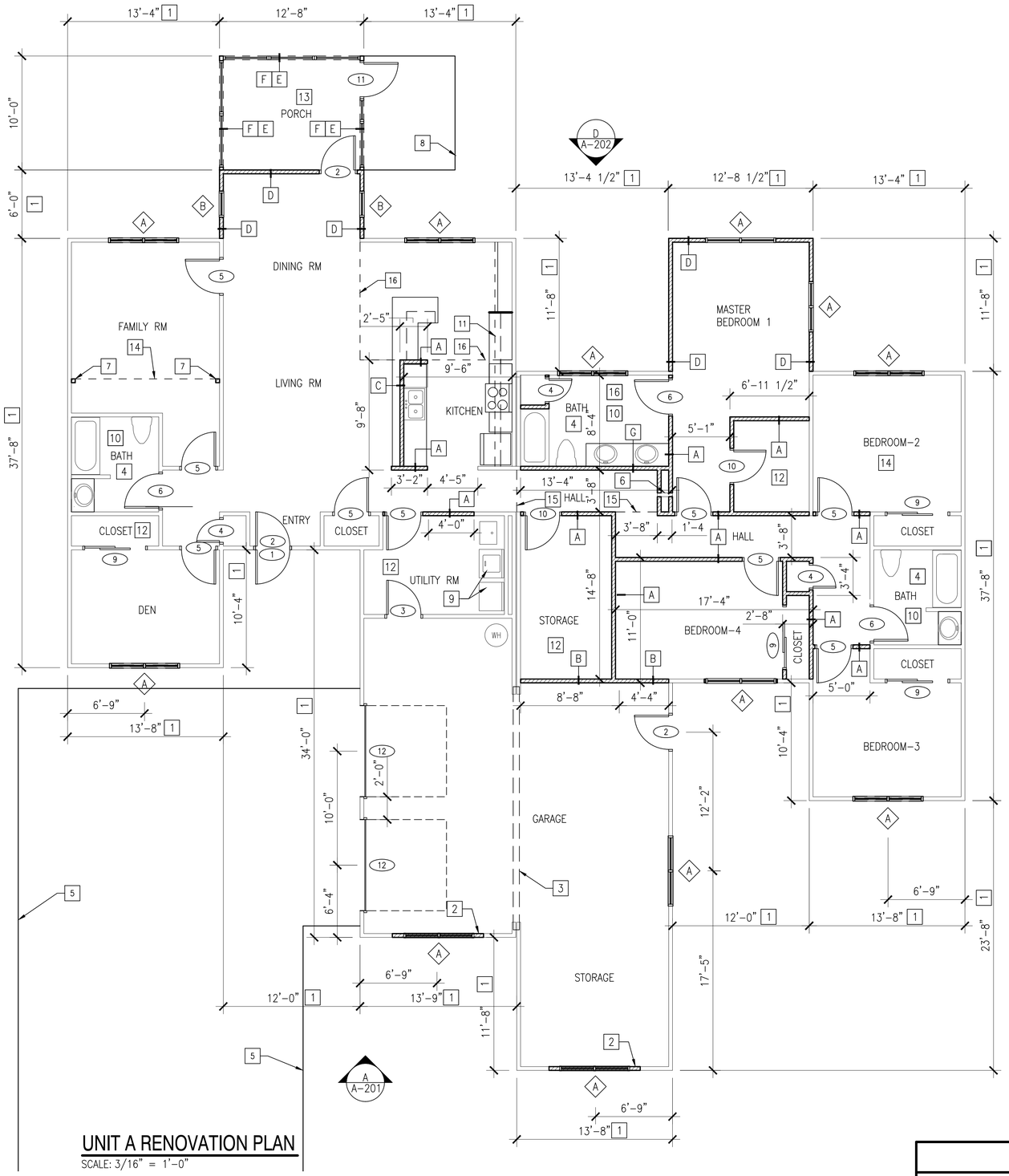
NAVFAC DRAWING NO. 12708297

SHEET 45 OF 120

AD104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-AD104.dwg LAYOUT NAME: AD104 PLOTTED: Friday, December 04, 2015 - 1:02pm USER: allen.kline



UNIT A RENOVATION PLAN

SCALE: 3/16" = 1'-0"

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

GENERAL SHEET NOTES

1. DIMENSIONS ARE SHOWN TO FACE OF FINISH AND ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
2. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
3. REFER TO A-601 AND A-603 FOR DOOR AND WINDOW SCHEDULES RESPECTIVELY.
4. REFER TO I-105 FOR FINISHES.
5. CEILINGS ARE 8'-0"AFF UNLESS NOTED OTHERWISE.

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING.
2. CENTER WINDOW IN OPENING CREATED BY OVERHEAD DOOR REMOVAL AND INFILL REMAINING OPENING TO MATCH EXISTING WALL CONSTRUCTION.
3. GLUE LAMINATED BEAM. REFER TO S-201 FOR ADDITIONAL INFORMATION. WRAP WITH 5/8" TYPE X GYPSUM WALLBOARD.
4. 1/2" CEMENTITIOUS BACKER UNITS TO MATCH TILE WAINSCOT HEIGHT WITH MOISTURE RESISTANT GYPSUM WALLBOARD ABOVE AT ALL WALLS IN BATHROOM.
5. CONCRETE DRIVEWAY. REFER TO CS104, CS105, CS106, CS107 AND CS108 FOR ADDITIONAL INFORMATION.
6. EXISTING VERTICAL SUPPORT TO REMAIN, ENCLOSE IN CHASE. REFER TO S-101 AND S-201.
7. VERTICAL SUPPORT FOR NEW BEAM, REFER TO S-101 AND S-201. WRAP SUPPORT WITH GYPSUM WALLBOARD.
8. CONCRETE PATIO. REFER TO CS104, CS105, CS106, CS107 AND CS108.
9. WASHER AND DRYER N.I.C. (SHOWN ONLY FOR CONNECTION LOCATION.)
10. PROVIDE TOILET, TUB, SINK, VANITY AND TOILET ACCESSORIES.
11. PROVIDE SOFFIT OVER KITCHEN CABINETRY. REFER TO I-201 AND I-401 FOR DETAILS,
12. PROVIDE WIRE MESH SHELVING IN CLOSETS, STORAGE AND UTILITY ROOM.
13. PROVIDE NON-VENTED SMOOTH CEMENTITIOUS SOFFITING AT CEILING OF PORCH.
14. EXISTING CATHEDRAL CEILING TO REMAIN.
15. CEILING ELEVATION 7'-0"AFF WHERE INDICATED.
16. REFRAME CATHEDRAL CEILING TO HORIZONTAL CEILING WITH 5/8" GYSPUM WALLBOARD AT 8'-0"AFF; (MOISTURE RESISTANT GYPSUM WALLBOARD IN BATH).

PARTITION TYPES

TYPE A – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON EACH SIDE.

TYPE B – 2X4 WOOD STUDS AT 16" O.C. WITH TYPE "X" GYPSUM WALLBOARD ON EACH SIDE (1 HR) WITH BATT INSULATION.

TYPE C – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON EACH SIDE, 42" (NOMINAL) HIGH.

TYPE D – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON INTERIOR, R-21 BATT INSULATION AND 1/2" EXTERIOR SHEATHING, AIR BARRIER AND CEMENTITIOUS SIDING.

TYPE E – 2X4 WOOD STUD FRAMING WITH WIRE MESH SCREEN ABOVE TYPE F PARTITION.

TYPE F – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" EXTERIOR SHEATHING AND CEMENTITIOUS SIDING EACH SIDE TO 36" AFF.

TYPE G – 2X6 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS (BATH SIDE) AND 1/2" GYPSUM WALLBOARD (HALL SIDE). rEFER TO NOTE 4.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

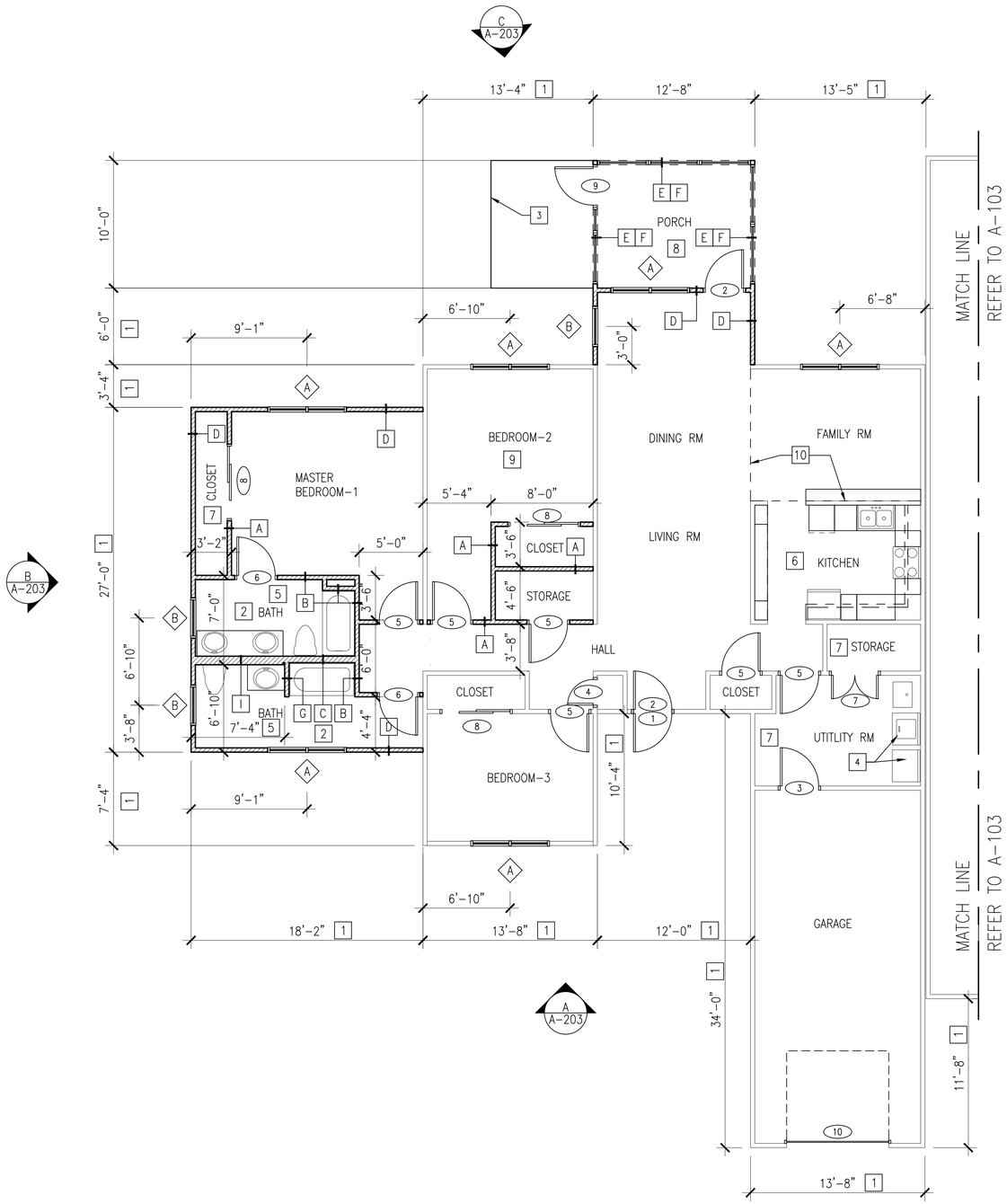
NAVFAC DRAWING NO. 12708298

SHEET 46 OF 120

A-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetersLineRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-101.dwg LAYOUT NAME: A-101 PLOTTED: Friday, December 04, 2015 - 12:43pm USER: allen.kline



UNIT B RENOVATION PLAN

SCALE: 3/16" = 1'-0"

UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

GENERAL SHEET NOTES

1. PLAN IS REPRESENTATIVE OF UNITS AT ADDRESSES 201 AND 208; 211 AND 219 ARE OPPOSITE HAND.
2. DIMENSIONS ARE SHOWN TO FACE OF FINISH AND ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
3. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
4. REFER TO A-601 AND A-603 FOR DOOR AND WINDOW SCHEDULES RESPECTIVELY.
5. REFER TO I-06 FOR FINISHES.
6. CEILINGS ARE 8'-0"AFF UNLESS NOTED OTHERWISE.

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING.
2. 1/2" CEMENTITIOUS BACKER UNITS TO MATCH TILE WAINSCOT HEIGHT WITH MOISTURE RESISTANT GYPSUM WALLBOARD ABOVE AT ALL WALLS IN BATHROOM.
3. CONCRETE PATIO. REFER TO CS101 AND CS102.
4. WASHER AND DRYER N.I.C. (SHOWN ONLY FOR CONNECTION LOCATION.)
5. PROVIDE TOILET, TUB, SINK, VANITY AND ACCESSORIES.
6. PROVIDE SOFFIT OVER KITCHEN CABINETRY. REFER TO 1-201 AND I-401 FOR DETAILS.
7. PROVIDE WIRE MESH SHELVING IN CLOSETS, STORAGE AND UTITLITY ROOM.
8. PROVIDE NON-VENTED SMOOTH CEMENTITIOUS SOFFITING AT CEILING OF PORCH.
9. EXISTING CATHEDRAL CEILING TO REMAIN.
10. REFRAME CATHEDRAL CEILING TO HORIZONTAL CEILING AT 8'-0"AFF.

PARTITION TYPES

TYPE A – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON EACH SIDE.

TYPE B – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD; 1/2" CEMENTITIOUS BACKER UNITS ON BATH ROOM SIDE.

TYPE C – 2X6 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS EACH SIDE.

TYPE D – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON INTERIOR (1/2" CEMENTITIOUS BACKER UNITS IN BATH ROOM), R-21 BATT INSULATION AND 1/2" EXTERIOR SHEATHING, AIR BARRIER AND CEMENTITIOUS SIDING.

TYPE E – 2X4 WOOD STUD FRAMING WITH WIRE MESH SCREEN ABOVE TYPE F PARTITION.

TYPE F – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" EXTERIOR SHEATHING AND CEMENTITIOUS SIDING EACH SIDE TO 36" AFF.

TYPE G – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS EACH SIDE.

TYPE H – NOT USED.

TYPE I – 2X8 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS EACH SIDE.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DFW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

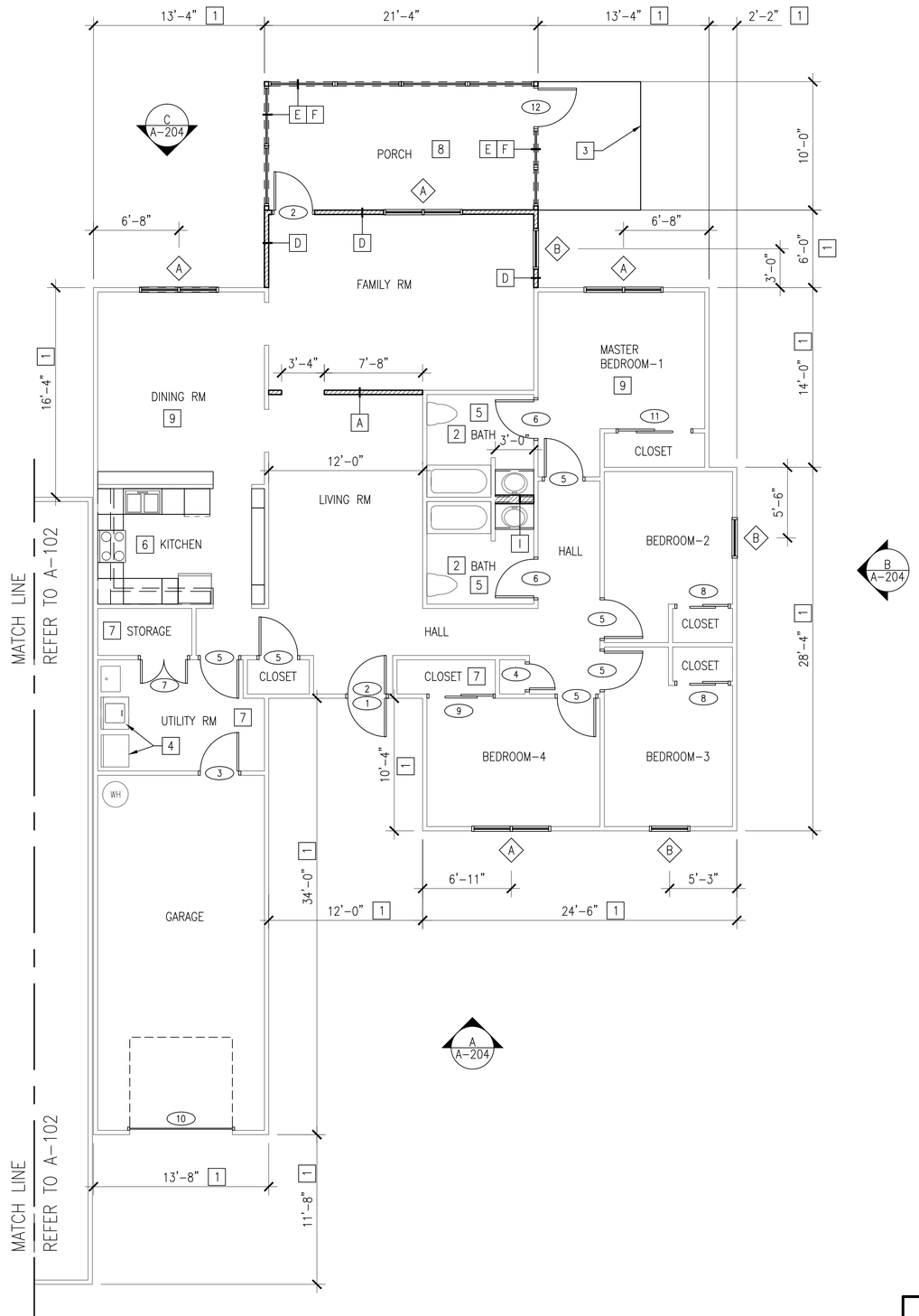
NAVFAC DRAWING NO. 12708299

SHEET 47 OF 120

A-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovationAndConversion\B_Design\Drawings\Sheet Files\08_Architecture\P1602-1366573-A-102.dwg LAYOUT NAME: A-102 PLOTTED: Friday, December 04, 2015 - 12:44pm USER: allen.kline



UNIT C RENOVATION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. PLAN IS REPRESENTATIVE OF UNITS AT ADDRESSES 203 AND 206; 209 AND 217 ARE OPPOSITE HAND.
2. DIMENSIONS ARE SHOWN TO FACE OF FINISH AND ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
3. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
4. REFER TO A-601 AND A-603 FOR DOOR AND WINDOW.SCHEDULES RESPECTIVELY.
5. REFER TO I-107 FOR FINISHES.
6. CEILINGS ARE 8'-0"AFF UNLESS NOTED OTHERWISE.

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING.
2. 1/2" CEMENTITIOUS BACKER UNITS TO MATCH TILE WAINSCOT L HEIGHT WITH MOISTURE RESISTANT GYPSUM WALLBOARD ABOVE AT ALL WALLS IN BATHROOM.
3. CONCRETE PATIO. REFER TO CS101, CS102 AND CS103.
4. WASHER AND DRYER N.I.C. (SHOWN ONLY FOR CONNECTION LOCAITON.)
5. PROVIDE TOILET, TUB, SINK, VANITY AND TOILET ACCESSORIES.
6. PROVIDE SOFFIT OVER KITCHEN CABINETRY. REFER TO 1-201 AND I-401 FOR DETAILS.
7. PROVIDE WIRE MESH SHELVING IN CLOSETS, STORAGE AND UTILITY ROOM.
8. PROVIDE NON-VENTED SMOOTH CEMENTITIOUS SOFFITING AT CEILING OF PORCH.
9. EXISTING CATHEDRAL CEILING TO REMAIN.

PARTITION TYPES

TYPE A – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON EACH SIDE.

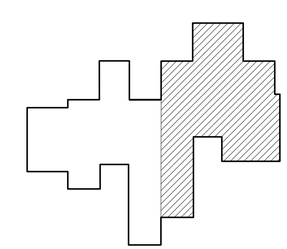
TYPE B, C, G AND H – NOT USED.

TYPE D – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON INTERIOR, R-21 BATT INSULATION AND 1/2" EXTERIOR SHEATHING, AIR BARRIER AND CEMENTITIOUS SIDING.

TYPE E – 2X4 WOOD STUD FRAMING WITH WIRE MESH SCREEN ABOVE TYPE F PARTITION.

TYPE F – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" EXTERIOR SHEATHING AND CEMENTITIOUS SIDING EACH SIDE TO 36" AFF.

TYPE I – 2X8 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS EACH SIDE.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

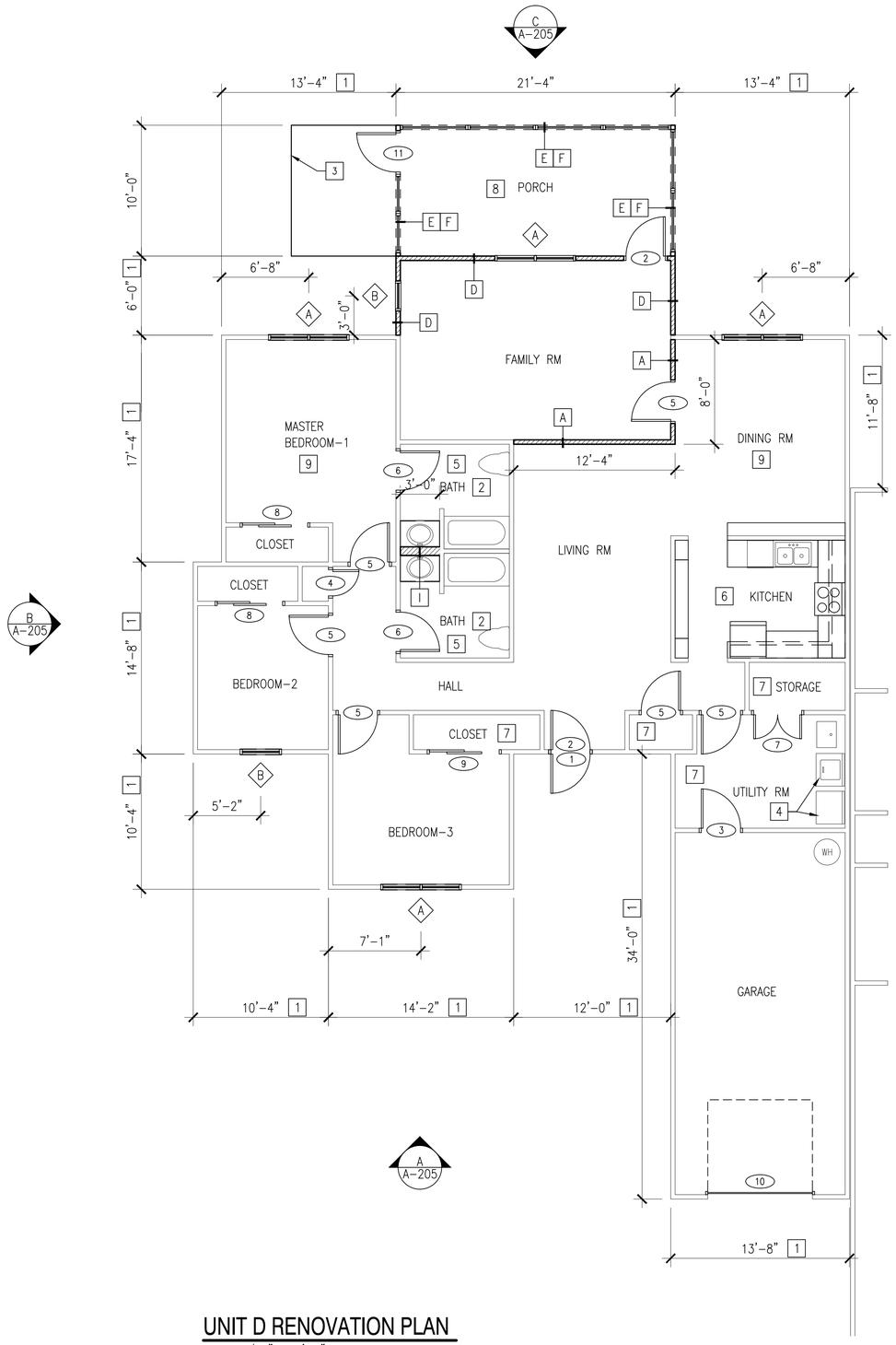
NAVFAC DRAWING NO. 12708300

SHEET 48 OF 120

A-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-103.dwg LAYOUT NAME: A-103 PLOTTED: Friday, December 04, 2015 - 12:45pm USER: allen.kline



UNIT D RENOVATION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. PLAN IS REPRESENTATIVE OF UNIT AT ADDRESS 213; 215 IS OPPOSITE HAND.
2. DIMENSIONS ARE SHOWN TO FACE OF FINISH AND ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
3. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
4. REFER TO A-601 AND A-603 FOR DOOR AND WINDOW SCHEDULES RESPECTIVELY.
5. CEILINGS ARE 8'-0"AFF UNLESS NOTED OTHERWISE

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING.
2. 1/2" CEMENTITIOUS BACKER UNITS TO MATCH TILE WAINSCOT HEIGHT WITH MOISTURE RESISTANT GYPSUM WALLBOARD ABOVE AT ALL WALLS IN BATHROOM.
3. CONCRETE PATIO. REFER TO CS102.
4. WASHER AND DRYER N.I.C. (SHOWN ONLY FOR CONNECITON LOCACTION.)
5. PROVIDE TOILET, TUB, SINK AND VANITY.
6. PROVIDE SOFFIT OVER KITCHEN CABINETRY. REFER TO I-201 AND I-401 FOR DETAILS.
7. PROVIDE WIRE MESH SHELVING IN CLOSETS, STORAGE AND UTILITY ROOM.
8. PROVIDE NON-VENTED SMOOTH CEMENTITIOUS SOFFITING AT CEILING OF PORCH.
9. EXISTING CATHEDRAL CEILING TO REMAIN.

PARTITION TYPES

TYPE A – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON EACH SIDE.

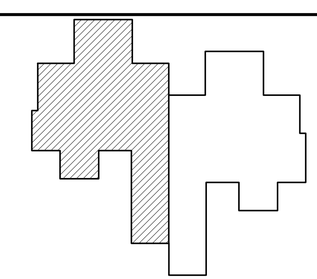
TYPE B, C, G, H – NOT USED.

TYPE D – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" GYPSUM WALLBOARD ON INTERIOR, R-21 BATT INSULATION AND 1/2" EXTERIOR SHEATHING, AIR BARRIER AND CEMENTITIOUS SIDING.

TYPE E – 2X4 WOOD STUD FRAMING WITH WIRE MESH SCREEN ABOVE TYPE F PARTITION.

TYPE F – 2X4 WOOD STUDS AT 16" O.C. WITH 1/2" EXTERIOR SHEATHING AND CEMENTITIOUS SIDING EACH SIDE TO 36" AFF.

TYPE I – 2X8 WOOD STUDS AT 16" O.C. WITH 1/2" CEMENTITIOUS BACKER UNITS EACH SIDE.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

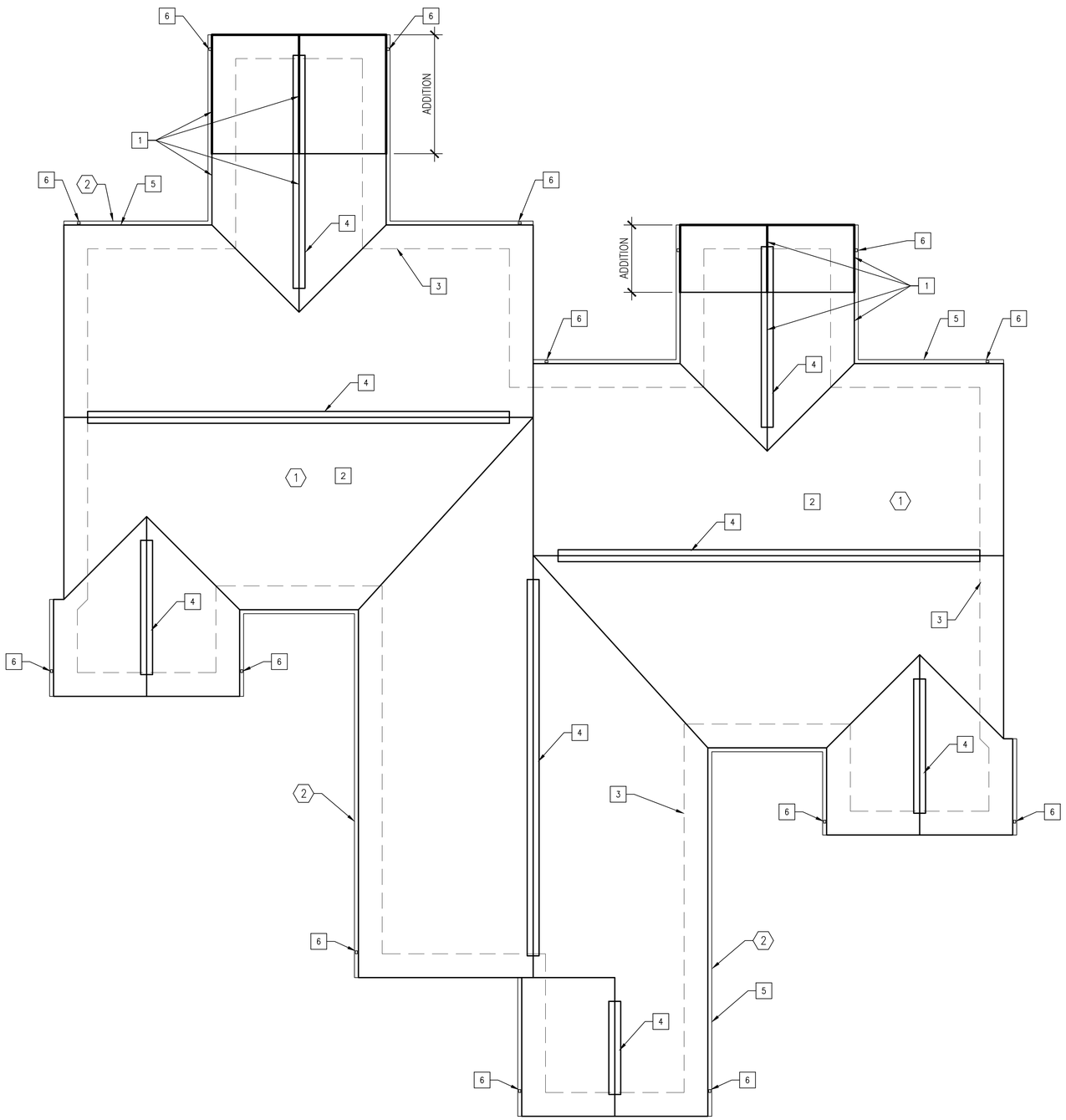
NAVFAC DRAWING NO. 1270301

SHEET 49 OF 120

A-104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-104.dwg LAYOUT NAME: A-104 PLOTTED: Friday, December 04, 2015 - 12:46pm USER: allen.kline



UNIT A ROOF PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.

DEMOLITION KEYNOTES

1. REMOVE ASPHALT SHINGLES, FELT UNDERLAYMENT AND ATTIC VENTS.
2. REMOVE GUTTERS AND DOWNSPOUTS AND FASCIA AND SOFFIT TRIM.

NEW WORK KEYNOTES

1. ALIGN ROOF RIDGE AND EAVE ELEVATIONS OF ADDITION WITH EXISTING ROOF RIDGE AND EAVE ELEVATIONS.
2. PROVIDE 30 YEAR ARCHITECTURAL SHINGLES OVER FELT UNDERLAYMENT.
3. PROVIDE ICE AND WATER SHIELD AT ROOF PERIMETER.
4. PROVIDE RIDGE VENTS.
5. PROVIDE GUTTER ALONG EAVES WITH VALLEY DIVERTERS.
6. PROVIDE DOWNSPOUT TO MATCH GUTTER.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A ROOF PLAN

SCALE: AS NOTED

EFPROJECT NO.: 1366573

CONSTR. CONTR. NO.

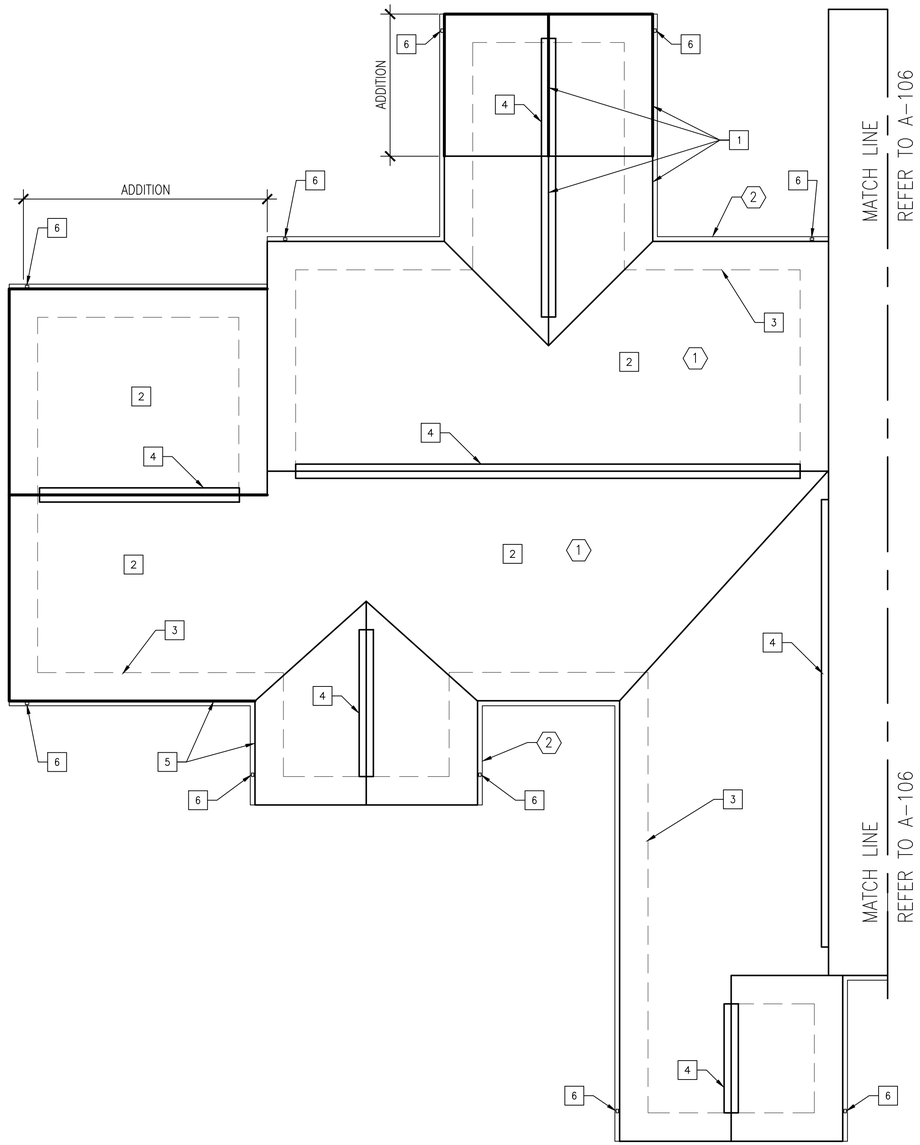
NAVFAC DRAWING NO. 12708302

SHEET 50 OF 120

A-105

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetersInnRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-105.dwg LAYOUT NAME: A-105 PLOTTED: Friday, December 04, 2015 - 12:47pm USER: allen.kline



UNIT B ROOF PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

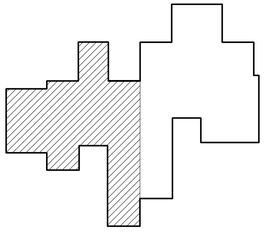
1. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.

DEMOLITION KEYNOTES

1. REMOVE ASPHALT SHINGLES, FELT UNDERLAYMENT AND ATTIC VENTS.
2. REMOVE GUTTERS AND DOWNSPOUTS AND FASCIA AND SOFFIT TRIM.

NEW WORK KEYNOTES

1. ALIGN ROOF RIDGE AND EAVE ELEVATIONS OF ADDITION WITH EXISTING ROOF RIDGE AND EAVE ELEVATIONS.
2. PROVIDE 30 YEAR ARCHITECTURAL SHINGLES OVER FELT UNDERLAYMENT.
3. PROVIDE ICE AND WATER SHIELD AT ROOF PERIMETER.
4. PROVIDE RIDGE VENTS.
5. PROVIDE GUTTER ALONG EAVES WITH VALLEY DIVERTERS.
6. PROVIDE DOWNSPOUT TO MATCH GUTTER.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE: MM/DD/YY

DES: DAY DRW: AK CHK: TLD

JTL/APK: JTL/DAY

BRANCH MANAGER: TLD

CHIEF ENG/ARCH: RLW RLW

FIRE PROTECTION: DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B
ROOF PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

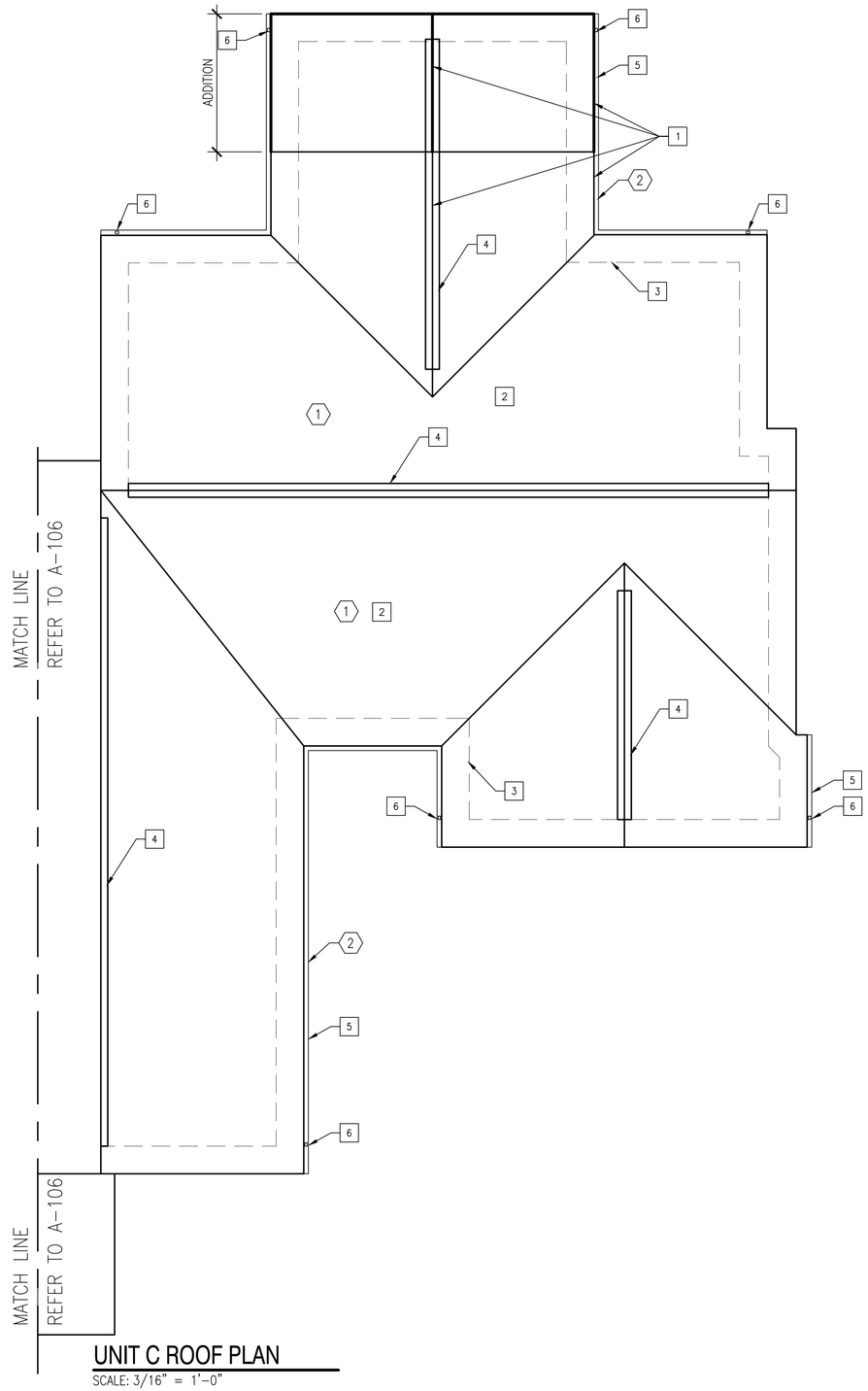
NAVFAC DRAWING NO. 12708303

SHEET 51 OF 120

A-106

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-106.dwg LAYOUT NAME: A-106 PLOTTED: Friday, December 04, 2015 - 12:48pm USER: allen.kline



UNIT C ROOF PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

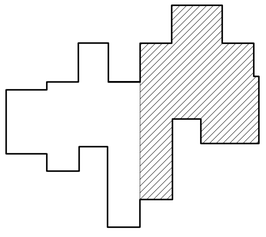
1. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.

DEMOLITION KEYNOTES

1. REMOVE ASPHALT SHINGLES, FELT UNDERLAYMENT AND ATTIC VENTS.
2. REMOVE GUTTERS AND DOWNSPOUTS AND FASCIA AND SOFFIT TRIM.

NEW WORK KEYNOTES

1. ALIGN ROOF RIDGE AND EAVE ELEVATIONS OF ADDITION WITH EXISTING ROOF RIDGE AND EAVE ELEVATIONS.
2. PROVIDE 30 YEAR ARCHITECTURAL SHINGLES OVER FELT UNDERLAYMENT.
3. PROVIDE ICE AND WATER SHIELD AT ROOF PERIMETER.
4. PROVIDE RIDGE VENTS.
5. PROVIDE GUTTER ALONG EAVES WITH VALLEY DIVERTERS.
6. PROVIDE DOWNSPOUT TO MATCH GUTTER.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C ROOF PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

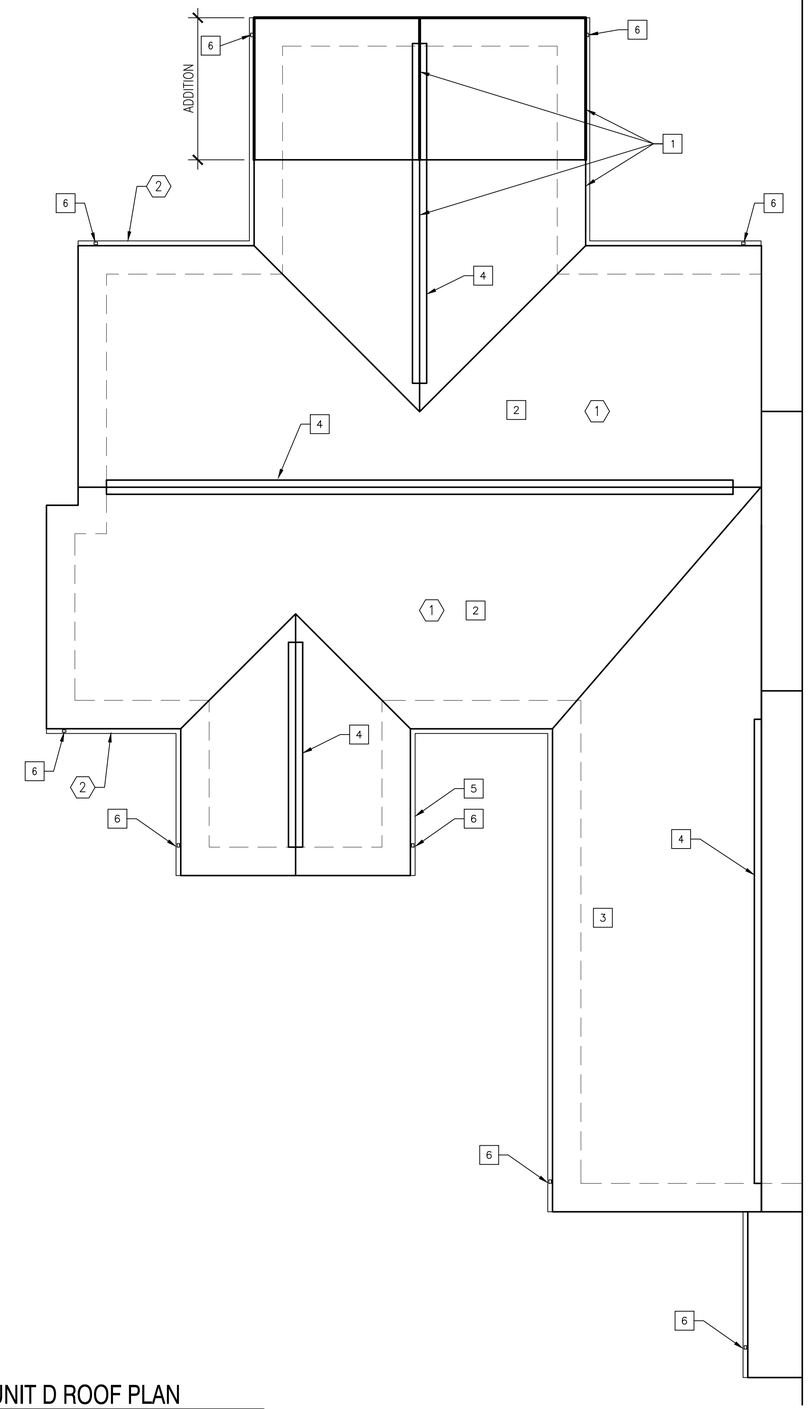
NAVFAC DRAWING NO. 12708304

SHEET 52 OF 120

A-107

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheets\LineRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-107.dwg LAYOUT NAME: A-107 PLOTTED: Friday, December 04, 2015 - 12:49pm USER: allen.kline



UNIT D ROOF PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

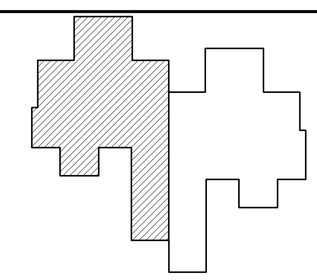
1. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.

DEMOLITION KEYNOTES

1. REMOVE ASPHALT SHINGLES, FELT UNDERLAYMENT AND ATTIC VENTS.
2. REMOVE GUTTERS AND DOWNSPOUTS AND FASCIA AND SOFFIT TRIM.

NEW WORK KEYNOTES

1. ALIGN ROOF RIDGE AND EAVE ELEVATIONS OF ADDITION WITH EXISTING ROOF RIDGE AND EAVE ELEVATIONS.
2. PROVIDE 30 YEAR ARCHITECTURAL SHINGLES OVER FELT UNDERLAYMENT.
3. PROVIDE ICE AND WATER SHIELD AT ROOF PERIMETER.
4. PROVIDE RIDGE VENTS.
5. PROVIDE GUTTER ALONG EAVES WITH VALLEY DIVERTERS.
6. PROVIDE DOWNSPOUT TO MATCH GUTTER.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
ROOF PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

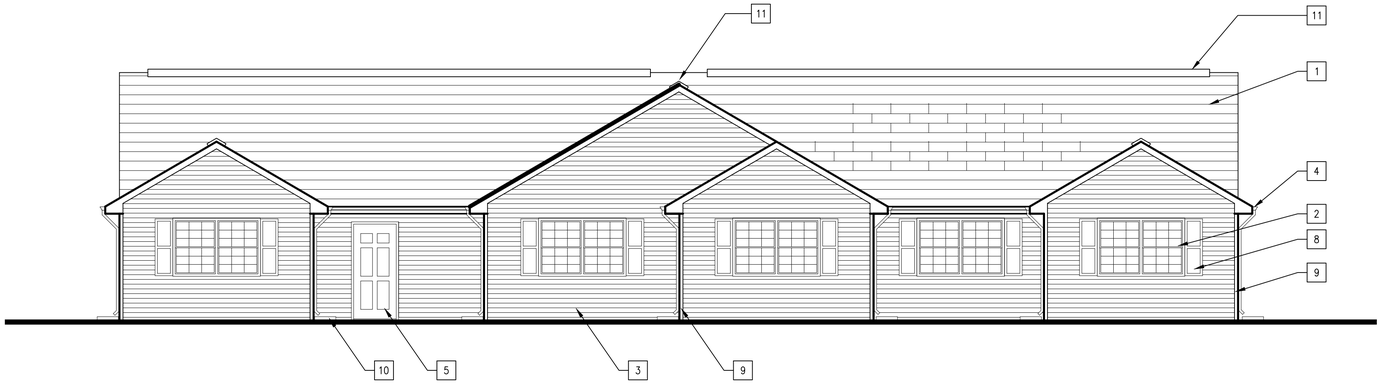
NAVFAC DRAWING NO.
12708305

SHEET 53 OF 120

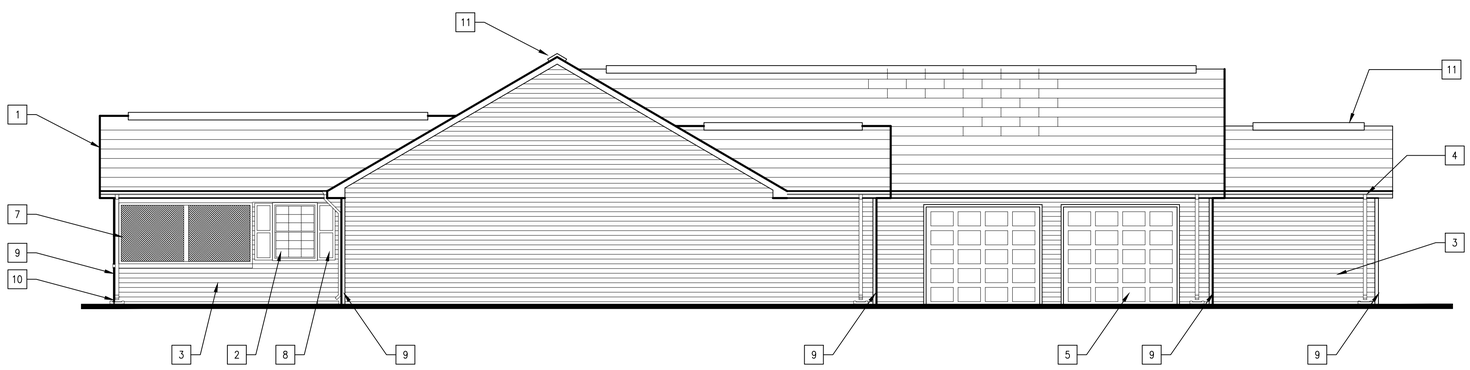
A-108

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\Renovation&Conversion\B_Design\Drawings\Sheet Files\08_Architecture\P1602-1366573-A-108.dwg LAYOUT NAME: A-108 PLOTTED: Friday, December 04, 2015 - 12:50pm USER: allen.kline



A UNIT A FRONT ELEVATION
SCALE: 3/16"=1'-0" A-101



B UNIT A LEFT SIDE ELEVATION
SCALE: 3/16"=1'-0" A-101

GENERAL SHEET NOTES

1. ELEVATIONS SHOW NEW CONDITIONS.
2. STORM DOOR NOT SHOWN.

NEW WORK KEYNOTES

1. ASPHALT SHINGLES.
2. VINYL CLAD WOOD WINDOW.
3. CEMENTITIOUS SIDING.
4. ALUMINUM OGEE GUTTERS AND 2"X3" DOWNSPOUTS (TYP).
5. INSULATED ENTRY DOOR. REFER TO DOOR SCHEDULE. STORM DOOR NOT SHOWN FOR CLARITY.
6. INSULATED GARAGE DOOR.
7. SCREEN MESH.
8. SHUTTER.
9. VERTICAL TRIM BOARD AT EXTERNAL CORNERS.
10. CONCRETE SPLASH BLOCK.
11. RIDGE VENT.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

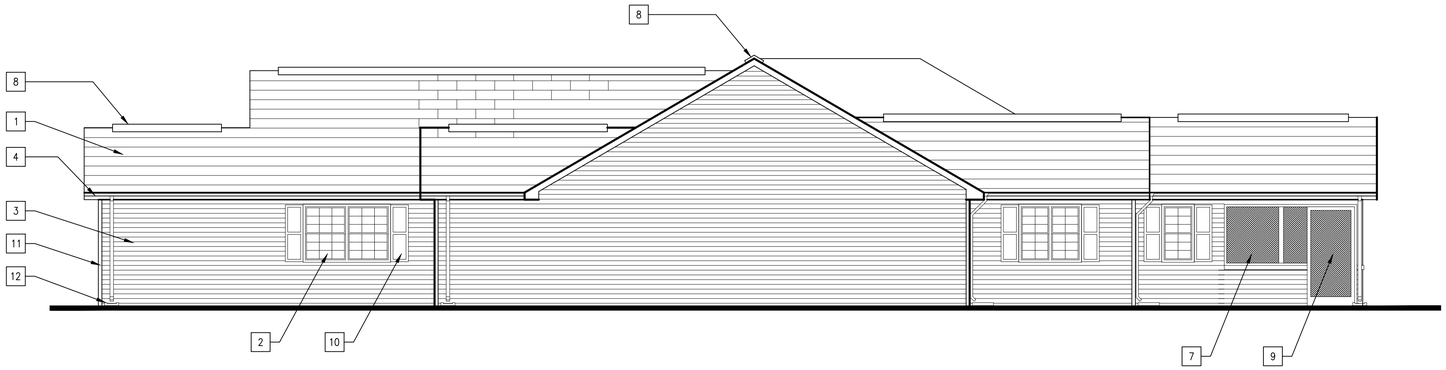
UNIT A
EXTERIOR ELEVATIONS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708306
SHEET 54 OF 120

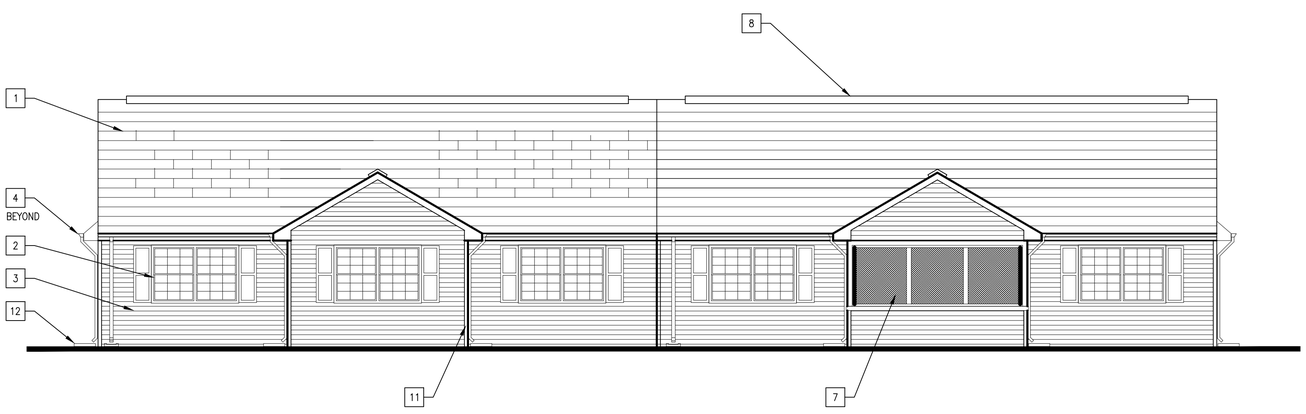
A-201

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetertLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-201.dwg LAYOUT NAME: A-201 PLOTTED: Friday, December 04, 2015 - 12:51pm USER: allen.kline



C UNIT A RIGHT SIDE ELEVATION
SCALE: 3/16"=1'-0" A-101



D UNIT A REAR ELEVATION
SCALE: 3/16"=1'-0" A-101

GENERAL SHEET NOTES

1. ELEVATIONS SHOW NEW CONDITIONS.

NEW WORK KEYNOTES

1. ASPHALT SHINGLES.
2. VINYL CLAD WOOD WINDOW.
3. CEMENTITIOUS SIDING.
4. ALUMINUM OGEE GUTTERS AND 2"X3" DOWNSPOUTS (TYP).
5. NOT USED.
6. NOT USED.
7. SCREEN MESH.
8. RIDGE VENT.
9. SCREEN DOOR.
10. SHUTTER.
11. VERTICAL TRIM BOARD AT EXTERNAL CORNERS.
12. CONCRETE SPLASH BLOCK.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY
DES DAY DRW AK CHK TLD
JTL/APK JTL/DAY
BRANCH MANAGER TLD
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT A EXTERIOR ELEVATIONS

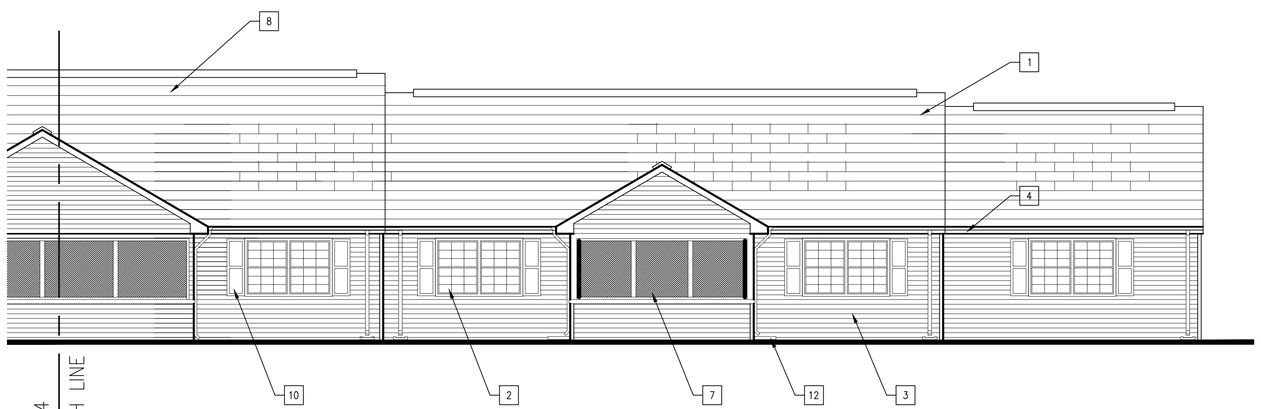
SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12708307
SHEET 55 OF 120
A-202

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheetset\newRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-202.dwg LAYOUT NAME: A-202 PLOTTED: Friday, December 04, 2015 - 12:52pm USER: allen.kline

A UNIT B FRONT ELEVATION
SCALE: 3/16"=1'-0" A-102

B UNIT B SIDE ELEVATION
SCALE: 3/16"=1'-0" A-102



C UNIT B REAR ELEVATION
SCALE: 3/16"=1'-0" A-102

GENERAL SHEET NOTES

1. ELEVATIONS SHOW NEW CONDITIONS.

NEW WORK KEYNOTES

1. ASPHALT SHINGLES.
2. VINYL CLAD WOOD WINDOW.
3. CEMENTITIOUS SIDING.
4. ALUMINUM OGEE GUTTERS AND 2"X3" DOWNSPOUTS (TYP).
5. INSULATED ENTRY DOOR. REFER TO DOOR SCHEDULE. STORM DOOR NOT SHOWN FOR CLARITY.
6. INSULATED GARAGE DOOR.
7. SCREEN MESH.
8. ATTIC VENT.
9. SCREEN DOOR.
10. SHUTTER.
11. VERTICAL TRIM BOARD AT EXTERNAL CORNERS.
12. CONCRETE SPLASH BLOCK.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY
DES DAY DRW AK CHK TLD
JTL/APK JTL/DAY
BRANCH MANAGER TLD
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT B EXTERIOR ELEVATIONS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO.
12708308
SHEET 56 OF 120
A-203

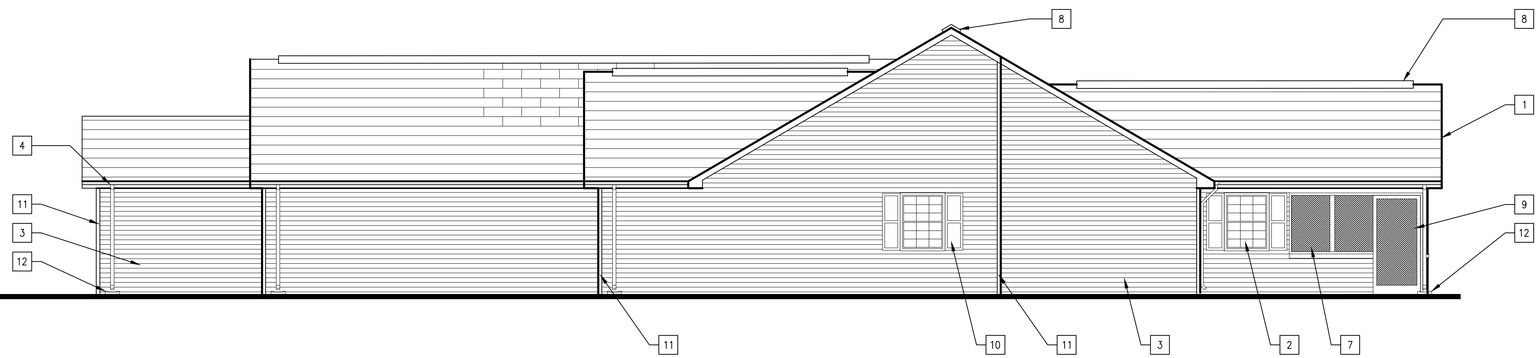
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SheetterLineRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architecture\P1602-1366573-A-203.dwg LAYOUT NAME: A-203 PLOTTED: Friday, December 04, 2015 - 12:53pm USER: allen.kline

A-203 MATCH LINE

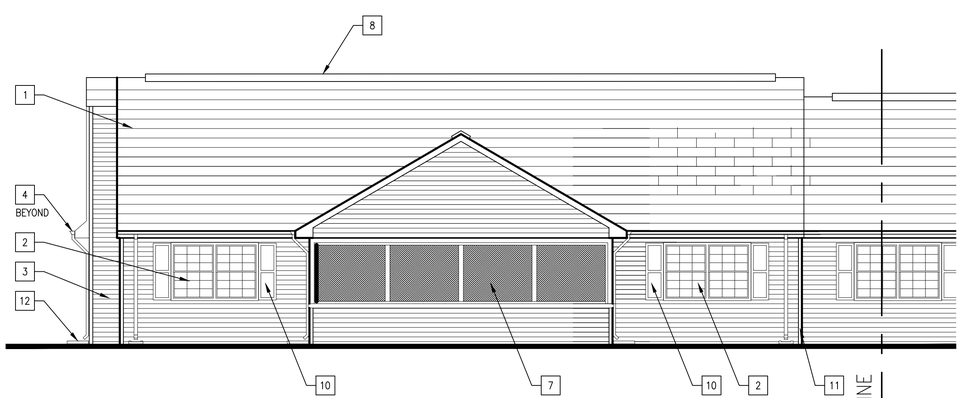
A UNIT C FRONT ELEVATION

SCALE: 3/16"=1'-0" A-103



B UNIT C SIDE ELEVATION

SCALE: 3/16"=1'-0" A-103



C UNIT C REAR ELEVATION

SCALE: 3/16"=1'-0" A-103

MATCH LINE A-203

GENERAL SHEET NOTES

1. ELEVATIONS SHOW NEW CONDITIONS.

NEW WORK KEYNOTES

1. ASPHALT SHINGLES.
2. VINYL CLAD WOOD WINDOW.
3. CEMENTITIOUS SIDING.
4. ALUMINUM OGEE GUTTERS AND 2"X3" DOWNSPOUTS (TYP).
5. INSULATED ENTRY DOOR. REFER TO DOOR SCHEDULE. STORM DOOR NOT SHOWN FOR CLARITY.
6. INSULATED GARAGE DOOR.
7. SCREEN MESH.
8. RIDGE VENT.
9. SCREEN DOOR.
10. SHUTTER.
11. VERTICAL TRIM BOARD AT EXTERNAL CORNERS.
12. CONCRETE SPLASH BLOCK.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C
EXTERIOR ELEVATIONS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

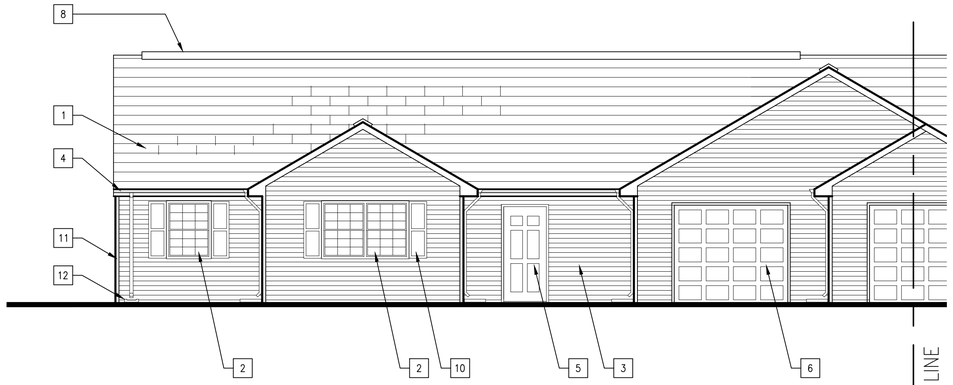
NAVFAC DRAWING NO. 12708309

SHEET 57 OF 120

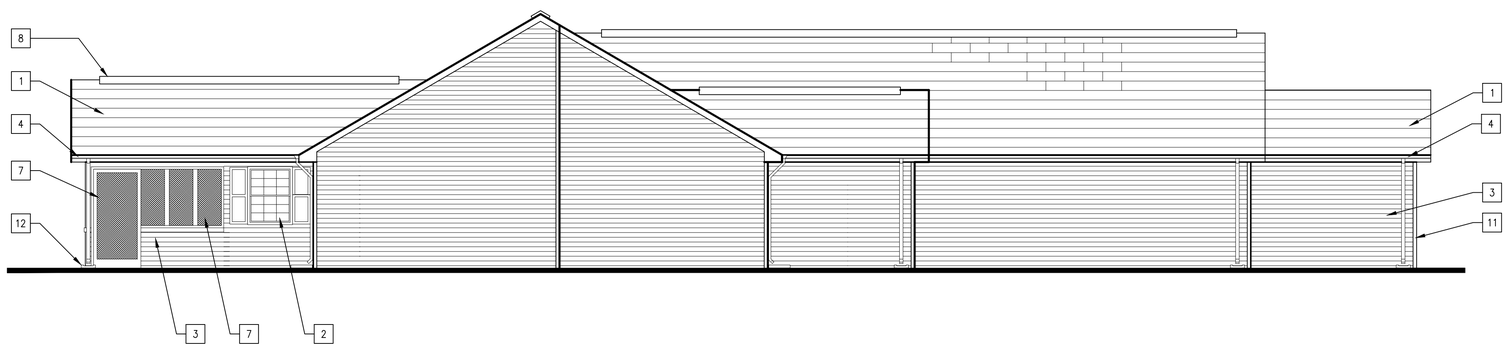
A-204

DRAWFORM REVISION: 10 MARCH 2009

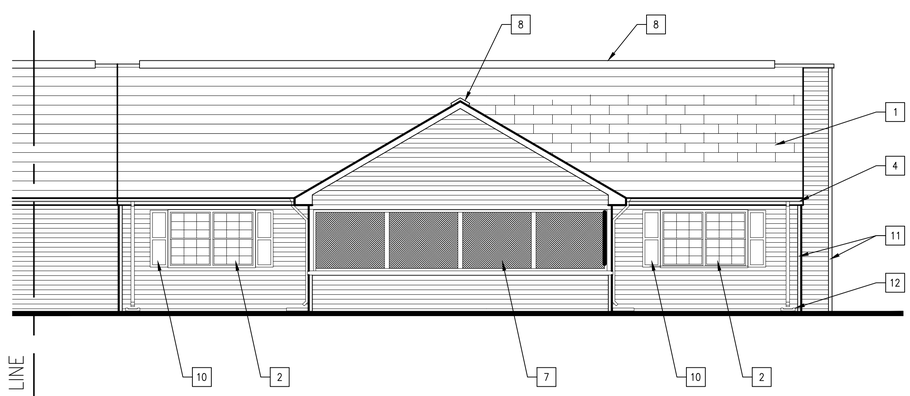
FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_Sweetert.oneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-204.dwg LAYOUT NAME: A-204 PLOTTED: Friday, December 04, 2015 - 12:54pm USER: allen.kline



A UNIT D FRONT ELEVATION
SCALE: 3/16"=1'-0" A-104



B UNIT D SIDE ELEVATION
SCALE: 3/16"=1'-0" A-104



C UNIT D REAR ELEVATION
SCALE: 3/16"=1'-0" A-104

GENERAL SHEET NOTES

1. ELEVATIONS SHOW NEW CONDITIONS.

NEW WORK KEYNOTES

1. ASPHALT SHINGLES.
2. VINYL CLAD WOOD WINDOW.
3. CEMENTITIOUS SIDING.
4. ALUMINUM OGEE GUTTERS AND 2"X3" DOWNSPOUTS (TYP).
5. INSULATED ENTRY DOOR. REFER TO DOOR SCHEDULE. STORM DOOR NOT SHOWN FOR CLARITY.
6. INSULATED GARAGE DOOR.
7. SCREEN MESH.
8. RIDGE VENT.
9. SCREEN DOOR.
10. SHUTTER.
11. VERTICAL TRIM BOARD AT EXTERNAL CORNERS.
12. CONCRETE SPLASH BLOCK.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
EXTERIOR ELEVATIONS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12708310

SHEET 58 OF 120

A-205

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationsConversion\B_Design\Drawings\Sheet Files\D8_Architectural\P1602-1366573-A-205.dwg LAYOUT NAME: A-205 PLOTTED: Friday, December 04, 2015 - 12:54pm USER: allen.kline

DOOR SCHEDULE (UNIT A)

(SEE SPECIFICATIONS SECTION 08710 FOR HARDWARE SCHEDULE)

DOOR NO	DOOR SIZE W X H X THK	DOOR TYPE	DOOR MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
1	3'–0" X 6'–8" X 1 3/4"	1	STORM	H–1	J–1	S–1	
2	3'–0" X 6'–8" X 1 3/8"	2	INSUL/MTL	H–1	J–1	S–1	
3	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–2	J–2	S–4	45 MIN.
4	2'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
5	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
6	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	S–2	
7	NOT USED					---	
8	NOT USED					---	
9	2–2'–8" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
10	2'–10" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
11	3'–0" X 6'–8" X 1 3/8"	6	SCREEN	H–3	J–3, J–3A	S–1 SIM	
12	8'–0" X 7'–0" X 1 3/8"	7	INSUL/MTL	H–5	J–5	S–5	

DOOR SCHEDULE (UNIT B)

(SEE SPECIFICATIONS SECTION 08710 FOR HARDWARE SCHEDULE)

DOOR NO	DOOR SIZE W X H X THK	DOOR TYPE	DOOR MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
1	3'–0" X 6'–8" X 1 3/4"	1	STORM	H–1	J–1	S–1	
2	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–1	J–1	S–1	
3	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–2	J–2	S–4	45 MIN.
4	2'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
5	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
6	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	S–2	
7	2–1'–10" X 6'–8" X 1 3/8"	5	SCWD	H–4	J–4	---	
8	2–2'–8" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
9	3'–0" X 6'–8" X 1 3/8"	6	SCREEN	H–3	J–3, J–3A	S–1 SIM	
10	8'–0" X 7'–0" X 1 3/8"	7	INSUL/MTL	H–5	J–5	S–5	

DOOR SCHEDULE (UNIT C)

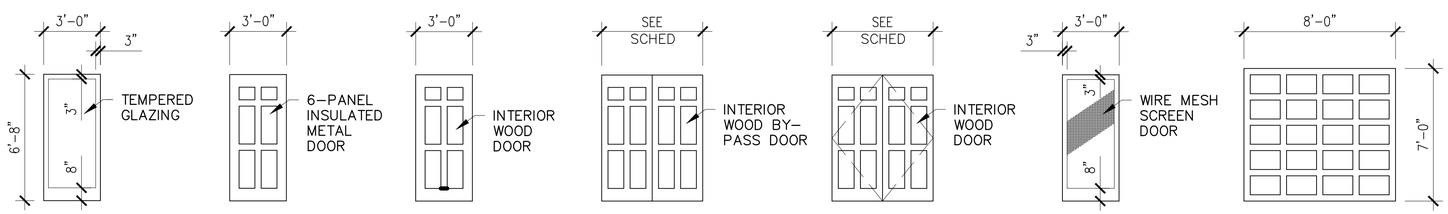
(SEE SPECIFICATIONS SECTION 08710 FOR HARDWARE SCHEDULE)

DOOR NO	DOOR SIZE W X H X THK	DOOR TYPE	DOOR MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
1	3'–0" X 6'–8" X 1 3/4"	1	STORM	H–1	J–1	S–1	
2	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–1	J–1	S–1	
3	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–2	J–2	S–4	45 MIN.
4	2'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
5	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
6	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	S–2	
7	2–1'–10" X 6'–8" X 1 3/8"	5	SCWD	H–2	J–2	S–4	
8	2–2'–0" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
9	2–2'–6" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
10	8'–0" X 7'–0" X 1 3/8"	7	INSUL/MTL	H–5	J–5	S–5	
11	2–2'–10" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
12	3'–0" X 6'–8" X 1 3/8"	6	SCREEN	H–3	J–3, J–3A	S–1 SIM	

DOOR SCHEDULE (UNIT D)

(SEE SPECIFICATIONS SECTION 08710 FOR HARDWARE SCHEDULE)

DOOR NO	DOOR SIZE W X H X THK	DOOR TYPE	DOOR MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
1	3'–0" X 6'–8" X 1 3/4"	1	STORM	H–1	J–1	S–1	
2	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–1	J–1	S–1	
3	3'–0" X 6'–8" X 1 3/4"	2	INSUL/MTL	H–2	J–2	S–4	45 MIN.
4	2'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
5	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	---	
6	3'–0" X 6'–8" X 1 3/8"	3	SCWD	H–2	J–2	S–2	
7	2–1'–10" X 6'–8" X 1 3/8"	5	SCWD	H–4	J–4	---	
8	2–2'–6" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
9	2–2'–8" X 6'–8" X 1 3/8"	4	SCWD	H–4	J–4	---	
10	8'–0" X 7'–0" X 1 3/8"	7	INSUL/MTL	H–5	J–5	S–5	
11	3'–0" X 6'–8" X 1 3/8"	6	SCREEN	H–3	J–3, J–3A	S–1 SIM	



DOOR TYPES

SCALE: 1/4" = 1'–0"

GRAPHIC SCALE

1/4"=1'–0" 0' 2' 4' 8'

APPR	
DATE	
DESCRIPTION	
SYM	

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAY DRW AK CHK TLD

JTL/APK JTL/DAY

BRANCH MANAGER TLD

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

DOOR SCHEDULE, AND DOOR TYPES

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

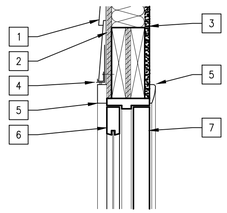
NAVFAC DRAWING NO. 12708311

SHEET 59 OF 120

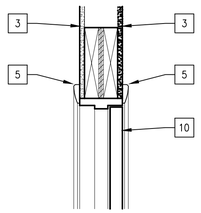
A-601

DRAWFORM REVISION: 10 MARCH 2009

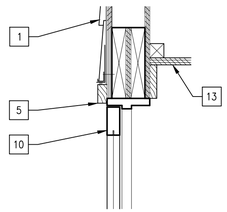
FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SkeetersLoneRenovationBConversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-601.dwg LAYOUT NAME: A-601 PLOTTED: Friday, December 04, 2015 - 12:56pm USER: allen.kline



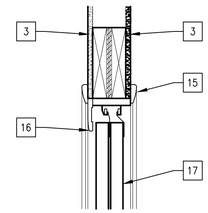
H1 HEAD
SCALE: 1 1/2" = 1'-0" A-601



H2 HEAD
SCALE: 1 1/2" = 1'-0" A-601



H3 HEAD
SCALE: 1 1/2" = 1'-0" A-601



H4 HEAD
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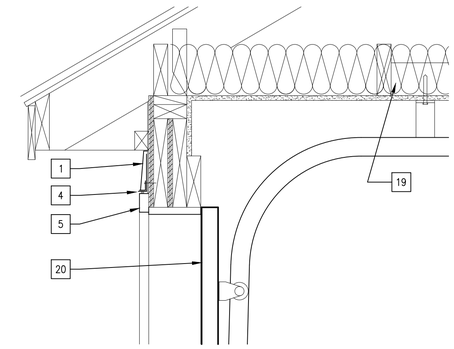
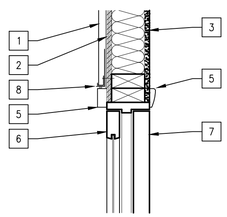
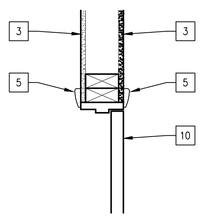


H5 HEAD
SCALE: 1 1/2" = 1'-0" A-601



J1 JAMB
SCALE: 1 1/2" = 1'-0" A-601



J2 JAMB
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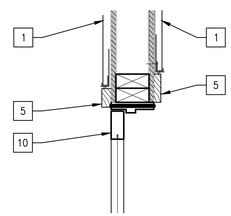
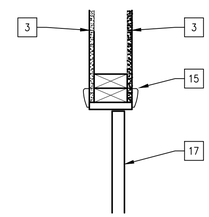
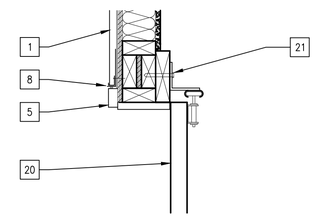


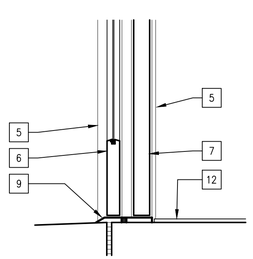
J3 JAMB
SCALE: 1 1/2" = 1'-0" A-601



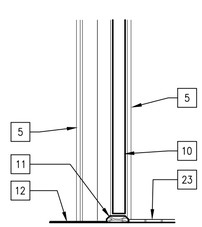
J4 JAMB
SCALE: 1 1/2" = 1'-0" A-601



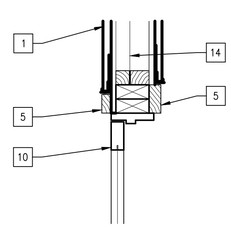
J5 JAMB
SCALE: 1 1/2" = 1'-0" A-601



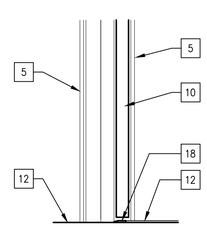
S1 SILL
SCALE: 1 1/2" = 1'-0" A-601



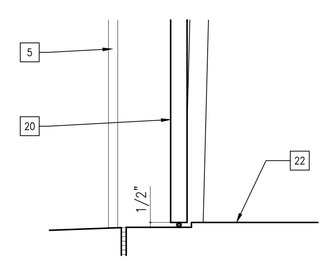
S2 SILL
SCALE: 1 1/2" = 1'-0" A-601



J3A JAMB
SCALE: 1 1/2" = 1'-0" A-601



S4 SILL
SCALE: 1 1/2" = 1'-0" A-601



S5 SILL
SCALE: 1 1/2" = 1'-0" A-601

GENERAL SHEET NOTES

1. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
2. REFER TO SHT A-601 FOR DOOR SCHEDULE.

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING OVER 15# FELT.
2. EXISTING PLYWOOD SHEATHING TO REMAIN.
3. EXISTING GYPSUM WALLBOARD.
4. METAL HEAD FLASHING.
5. WOOD DOOR TRIM.
6. FULL VIEW STORM DOOR. REFER TO DOOR SCHEDULE.
7. INSULATED METAL DOOR. REFER TO DOOR SCHEDULE.
8. METAL JAMB FLASHING.
9. METAL SADDLE WITH THERMAL BREAK.
10. DOOR, REFER TO DOOR SCHEDULE.
11. 2 1/2' X 1/2" MARBLE THRESHOLD.
12. REFER TO FINISH SCHEDULE FOR FLOOR FINISH.
13. CEMENTITIOUS SOFFIT BY SIDING MANUFACTURER.
14. WIRE MESH SCREEN.
15. CASED OPENING WITH WOOD TRIM EACH SIDE
16. WOOD VALANCE.
17. SLIDING WOOD DOOR. REFER TO DOOR SCHEDULE.
18. REDUCER STRIP.
19. COORDINATE WOOD BLOCKING BETWEEN FRAMING MEMBERS WITH SUPPORT REQUIREMENTS OF DOOR MANUFACTURER.
20. INSULATED OVERHEAD ROLLING DOOR WITH WEATHER STRIPPING SEALS.
21. SECURE DOOR TRACK PER MANUFACTURER'S REQUIREMENTS.
22. CONCRETE SLAB.
23. PORCELAIN TILE.

GRAPHIC SCALE

1-1/2"=1'-0" 0 6" 1' 1'-6"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

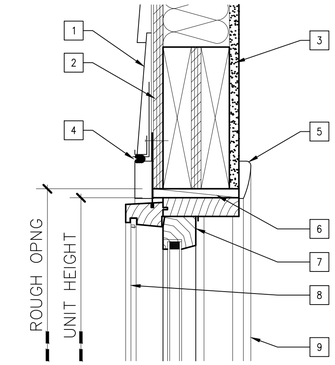
SATISFACTORY TO DATE MM/DD/YY
DES DAY DRW AK CHK TLD
JTL/APK JTL/DAY
BRANCH MANAGER TLD
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
DOOR DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708312
SHEET 60 OF 120
A-602

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SkeetterLaneRenovationsConversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-602.dwg LAYOUT NAME: A-602 PLOTTED: Friday, December 04, 2015 - 12:57pm USER: allen.kline

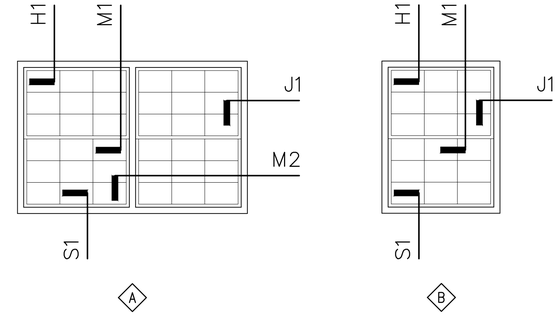


H1 HEAD
SCALE: 3" = 1'-0" A-603

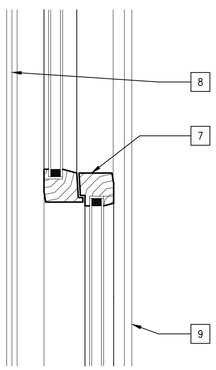
WINDOW SCHEDULE

MARK	UNIT DESIGNATION	UNIT SIZE W x H	ROUGH OPENING W x H
A	30310 (PAIR)	6'-3 x 4'-1"	6'-4" x 4'-1"
B	30310	3'-1 1/2" x 4'-1"	3'-2" x 4'-1"

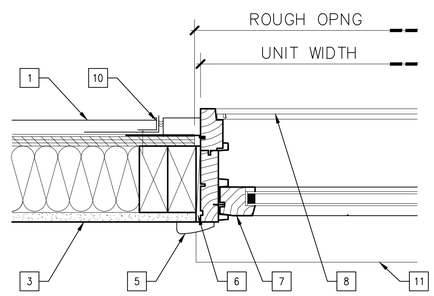
NOTE: WINDOW UNIT DESIGNATIONS SELECTED FROM ANDERSEN CORP. CATALOG (1996 EDITION). OTHER MANUFACTURERS' PRODUCTS MAY BE SUBMITTED FOR APPROVAL PROVIDED THEY CLOSELY APPROXIMATE COLOR, SIZE AND STYLE AND CONFORM TO ALL OTHER REQUIREMENTS.



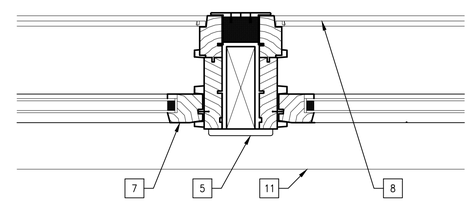
WINDOW ELEVATIONS
NOT TO SCALE



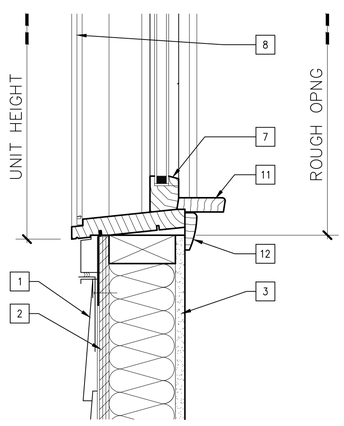
M1 MULLION (HORIZONTAL)
SCALE: 3" = 1'-0" A-603



J1 JAMB
SCALE: 3" = 1'-0" A-603



M2 MULLION (VERTICAL)
SCALE: 3" = 1'-0" A-603



S1 SILL
SCALE: 3" = 1'-0" A-603

GENERAL SHEET NOTES

1. FIELD VERIFY DIMENSIONS OF EXISTING ROUGH OPENINGS AND ENSURE OPENINGS ARE UNIFORM, TRUE AND PLUMB PRIOR TO ORDERING WINDOWS.
2. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
3. WINDOW DETAILS REPRESENT WINDOW INSTALLATION IN NEW ADDITION(S). NEW WINDOWS WILL ALSO BE INSTALLED IN EXISTING CONSTRUCTION WHICH IS SIMILAR TO THAT SHOWN.

NEW WORK KEYNOTES

1. CEMENTITIOUS SIDING OVER 15# FELT.
2. PLYWOOD SHEATHING.
3. GYPSUM WALLBOARD.
4. HEAD FLASHING AND SEALANT.
5. WOOD TRIM.
6. SHIM AS REQUIRED.
7. VINYL-CLAD WOOD WINDOW WITH INSULATED GLAZING.
8. INSECT SCREEN.
9. WOOD TRIM AT JAMB BEYOND.
10. JAMB FLASHING AND SEALANT.
11. WOOD STOOL (1X3 NOMINAL).
12. WOOD APRON (1X2 NOMINAL).

GRAPHIC SCALE

3"=1'-0" 0 3" 6" 9"

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY
DES DAY DRW AK CHK TLD
JTL/APK JTL/DAY
BRANCH MANAGER TLD
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

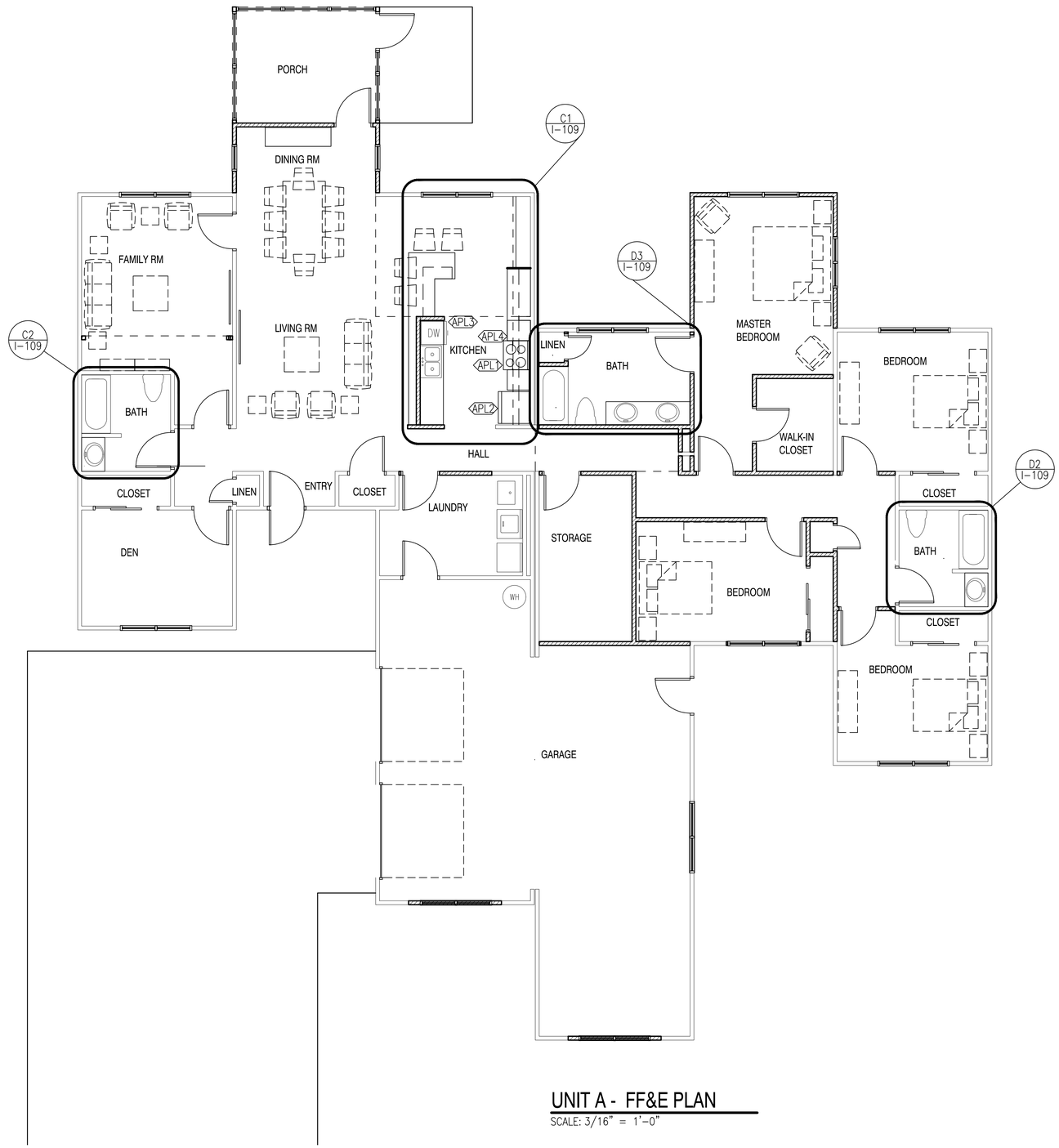
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

WINDOW SCHEDULE, TYPES AND DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708313
SHEET 61 OF 120
A-603

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\08_Architectural\P1602-1366573-A-603.dwg LAYOUT NAME: A-603 PLOTTED: Friday, December 04, 2015 - 12:58pm USER: allen.kline



UNIT A - FF&E PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. FURNITURE, FIXTURES AND EQUIPMENT NOT IDENTIFIED IN SCHEDULE BELOW IS SHOWN FOR PLACEMENT PURPOSES ONLY.
2. ALL EQUIPMENT IDENTIFIED IN SCHEDULE BELOW TO BE PROVIDED IN CONSTRUCTION SCOPE.
3. FF&E INDICATED ARE THE APPROVED BASIS OF DESIGN PRODUCTS LISTED TO CONVEY SALIENT CHARACTERISTICS AND FINISH ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE INTERIOR DESIGNER OF RECORD (IDOR) AND THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER.

EQUIPMENT SCHEDULE

MARK	NAME	DESCRIPTION	MANUFACTURER	PART NUMBER	FINISH	NOTES	TOTAL
APL1	RANGE	30" ELECTRIC RANGE	--	--	SS	DBL OVEN	1
APL2	REFRIGERATOR	BOTTOM MOUNT FREEZER	--	--	SS	W/ICE MAKER	1
APL3	DISHWASHER	UNDERCOUNTER DISHWASHER	--	--	SS	--	1
APL4	MICROHOOD	MICROWAVE/HOOD COMBINATION	--	--	SS	--	1

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER

WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
FF&E PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12708314

SHEET 62 OF 120

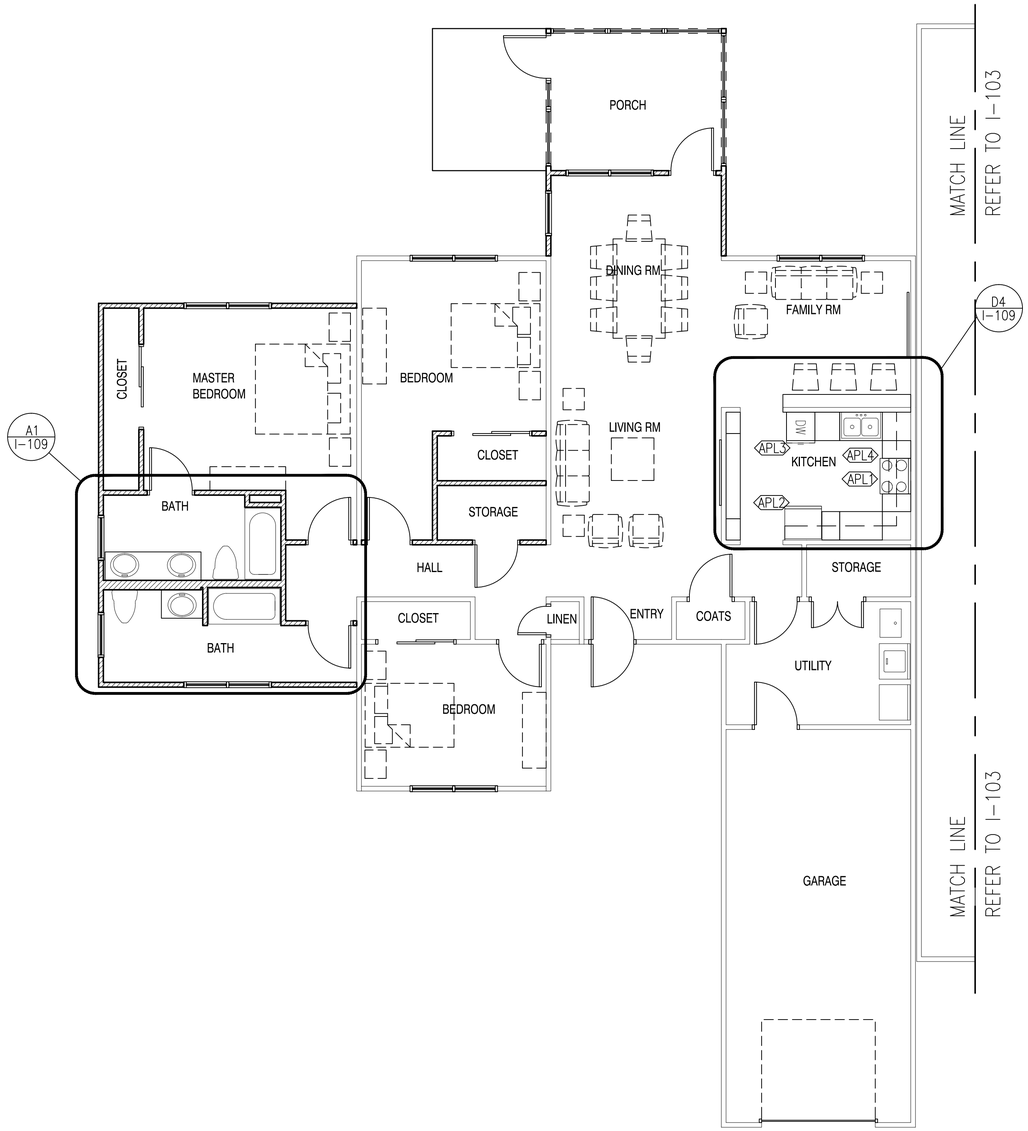
I-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sweetert.oneRenovation&Conversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-101.dwg LAYOUT NAME: I-101 PLOTTED: Thursday, December 03, 2015 - 2:46pm USER: donna.prisnell

EQUIPMENT SCHEDULE

MARK	NAME	DESCRIPTION	MANUFACTURER	PART NUMBER	FINISH	NOTES	TOTAL
APL1	RANGE	30" ELECTRIC RANGE	--	--	SS	--	1
APL2	REFRIGERATOR	BOTTOM MOUNT FREEZER	--	--	SS	--	1
APL3	DISHWASHER	UNDERCOUNTER DISHWASHER	--	--	SS	--	1
APL4	MICROHOOD	MICROWAVE/HOOD COMBINATION	--	--	SS	--	1

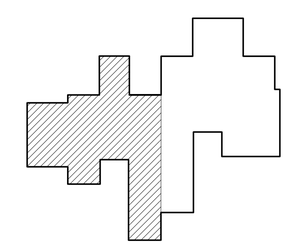


UNIT B - FF&E PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. FURNITURE, FIXTURES AND EQUIPMENT NOT IDENTIFIED IN SCHEDULE BELOW IS SHOWN FOR PLACEMENT PURPOSES ONLY.
2. ALL EQUIPMENT IDENTIFIED IN SCHEDULE BELOW TO BE PROVIDED IN CONSTRUCTION SCOPE.
3. FF&E INDICATED ARE THE APPROVED BASIS OF DESIGN PRODUCTS LISTED TO CONVEY SALIENT CHARACTERISTICS AND FINISH ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE INTERIOR DESIGNER OF RECORD (IDOR) AND THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES ??? DFW ??? CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MPW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B
FF&E PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

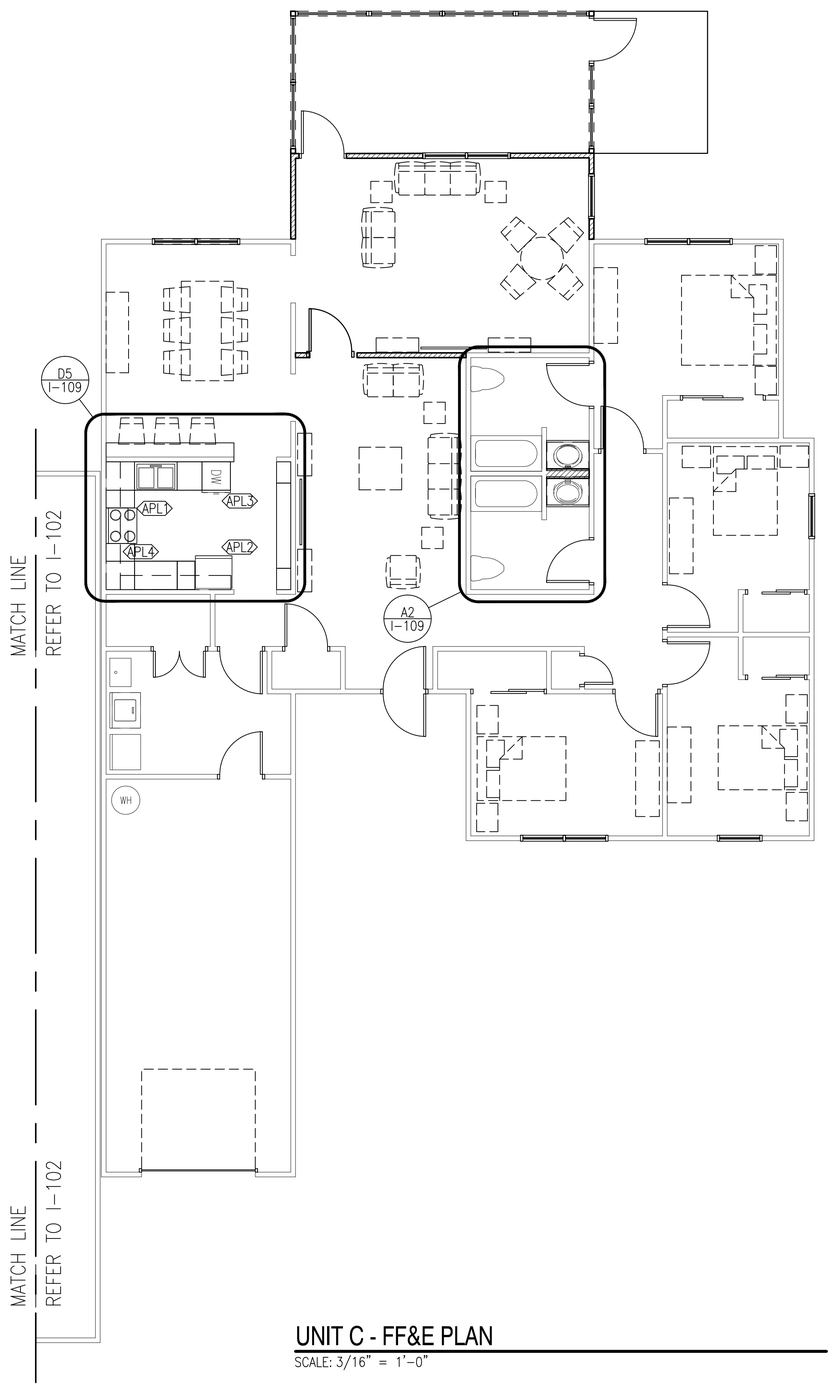
NAVFAC DRAWING NO.
12708315

SHEET 63 OF 120

I-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SixesterLoneRenovationsConversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-102.dwg LAYOUT NAME: I-102 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell



UNIT C - FF&E PLAN

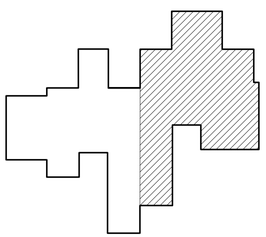
SCALE: 3/16" = 1'-0"

EQUIPMENT SCHEDULE

MARK	NAME	DESCRIPTION	MANUFACTURER	PART NUMBER	FINISH	NOTES	TOTAL
APL1	RANGE	30" ELECTRIC RANGE	--	--	SS	--	1
APL2	REFRIGERATOR	BOTTOM MOUNT FREEZER	--	--	SS	--	1
APL3	DISHWASHER	UNDERCOUNTER DISHWASHER	--	--	SS	--	1
APL4	MICROHOOD	MICROWAVE/HOOD COMBINATION	--	--	SS	--	1

GENERAL SHEET NOTES

1. FURNITURE, FIXTURES AND EQUIPMENT NOT IDENTIFIED IN SCHEDULE BELOW IS SHOWN FOR PLACEMENT PURPOSES ONLY.
2. ALL EQUIPMENT IDENTIFIED IN SCHEDULE BELOW TO BE PROVIDED IN CONSTRUCTION SCOPE.
3. FF&E INDICATED ARE THE APPROVED BASIS OF DESIGN PRODUCTS LISTED TO CONVEY SALIENT CHARACTERISTICS AND FINISH ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE INTERIOR DESIGNER OF RECORD (IDOR) AND THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES ??? DRW ??? CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C
FF&E PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

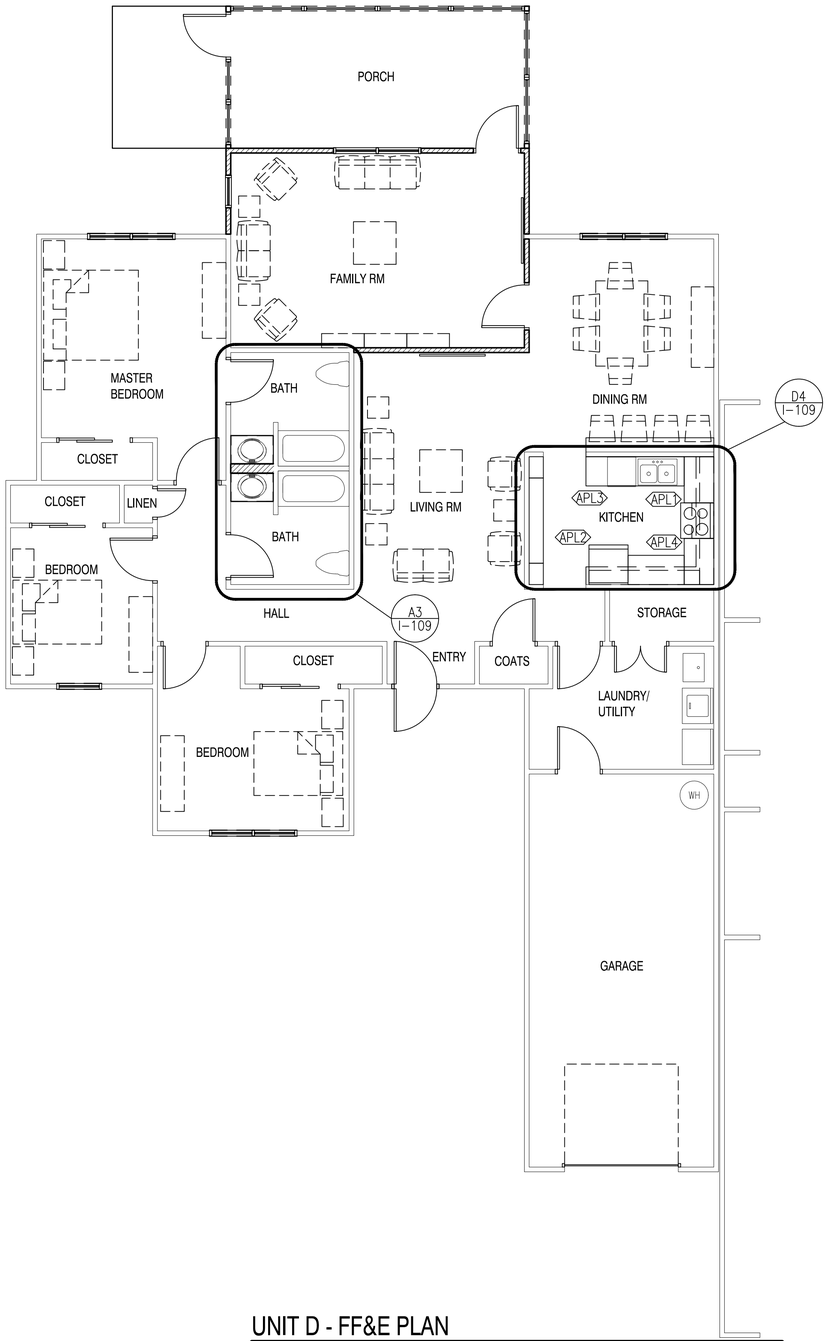
NAVFAC DRAWING NO.
#######

SHEET # OF 120

I-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\LoneRenovation&Conversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-103.dwg LAYOUT NAME: I-103 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell



UNIT D - FF&E PLAN

SCALE: 3/16" = 1'-0"

EQUIPMENT SCHEDULE

MARK	NAME	DESCRIPTION	MANUFACTURER	PART NUMBER	FINISH	NOTES	TOTAL
APL1	RANGE	30" ELECTRIC RANGE	--	--	SS	--	1
APL2	REFRIGERATOR	BOTTOM MOUNT FREEZER	--	--	SS	--	1
APL3	DISHWASHER	UNDERCOUNTER DISHWASHER	--	--	SS	--	1
APL4	MICROHOOD	MICROWAVE/HOOD COMBINATION	--	--	SS	--	1

GENERAL SHEET NOTES

1. FURNITURE, FIXTURES AND EQUIPMENT NOT IDENTIFIED IN SCHEDULE BELOW IS SHOWN FOR PLACEMENT PURPOSES ONLY.
2. ALL EQUIPMENT IDENTIFIED IN SCHEDULE BELOW TO BE PROVIDED IN CONSTRUCTION SCOPE.
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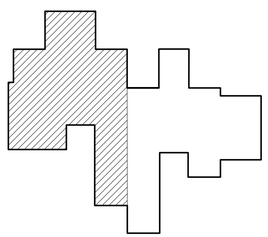


UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MMW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
FF&E PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

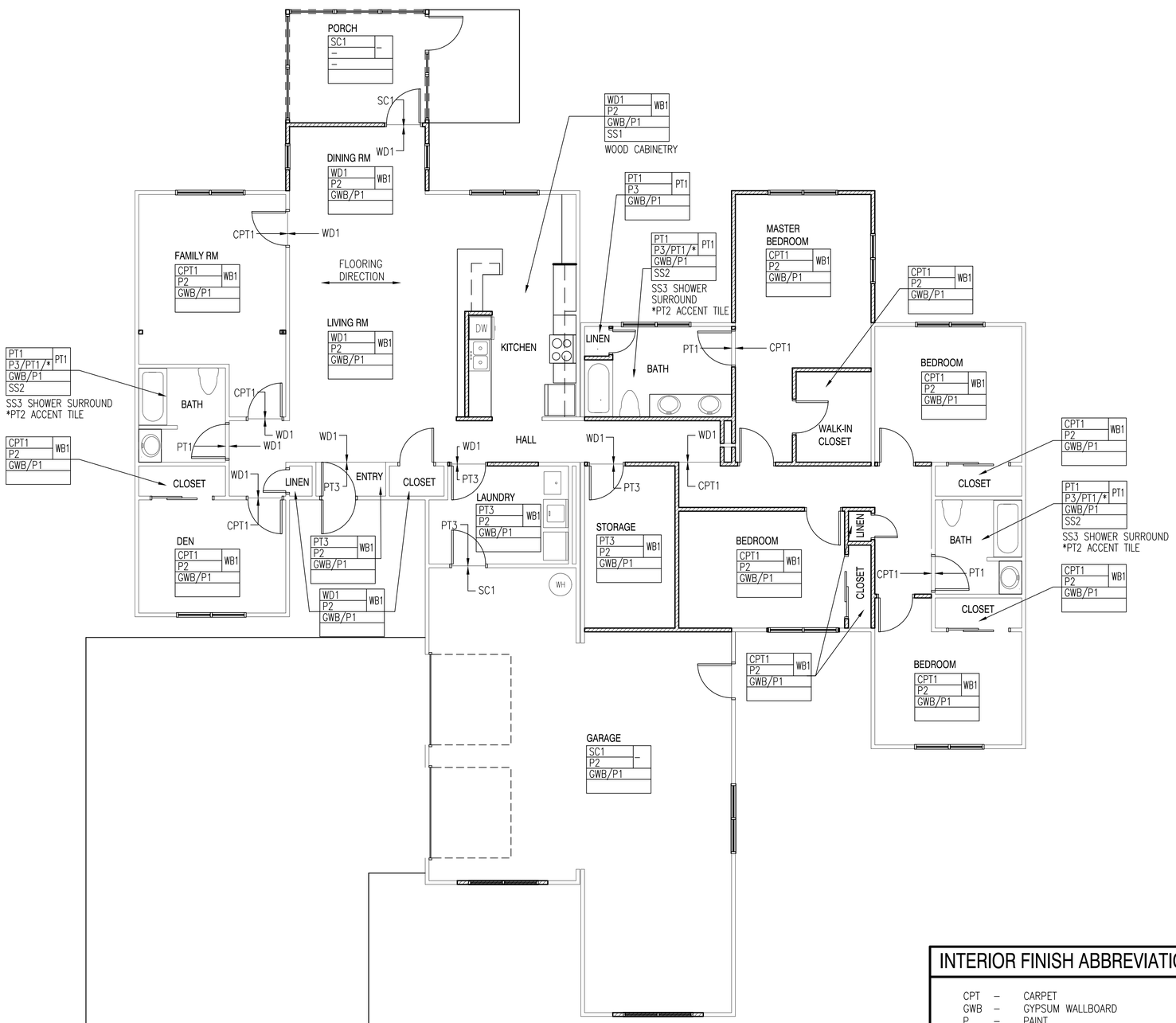
NAVFAC DRAWING NO. 12708317

SHEET 65 OF 120

I-104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-104.dwg LAYOUT NAME: I-104 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.presnell



UNIT A - FINISH PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. FOR QUESTIONS REGARDING INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS CONTACT THE CONTRACTING OFFICER.
2. FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCTS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER
3. INSTALL MATERIALS/PRODUCTS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
4. DO NOT SUBSTITUTE FINISH MATERIALS DUE TO ORDERING LEAD TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ORDER ALL MATERIALS IN TIME TO AVOID DELAYS.
5. FINISH ALL GYPSUM BOARD SURFACES (WALLS & CEILINGS) WITH A LEVEL 5 FINISH.
6. SURFACE PREPARATION AND CLEANING PROCEDURES MUST BE IN STRICT ACCORDANCE WITH THE INSTRUCTIONS AND SPECIFICATIONS OF THE APPLICABLE FINISH PRODUCT.
7. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
8. EXISTING WALLS MUST BE FULLY SANDED, PATCHED, PRIMED AND PREPARED TO RECEIVE NEW PAINT PER MANUFACTURER'S SPECIFICATIONS.
9. SUBMIT PAINT DRAW DOWNS TO NAVFAC INTERIOR DESIGNER FOR APPROVAL PRIOR TO APPLICATION.
10. FURNISH CERTIFICATION BY THE PAINT MANUFACTURER THAT THE PRODUCTS COMPLY WITH LOCAL REGULATIONS CONTROLLING THE USE OF VOLATILE ORGANIC COMPOUNDS (VOC'S).
11. USE LOW VOC PRIMERS PER PAINT MANUFACTURER'S RECOMMENDATIONS.
12. FOR DARKER/SATURATED PAINT COLORS. FOLLOW MANUFACTURER'S RECOMMENDATION FOR PROPER APPLICATION AND COVERAGE.
13. PAINT SHEEN AS FOLLOWS: ALL LOCATIONS TO BE EGGSHELL EXCEPT THE FOLLOWING: TOILET ROOMS: SEMI-GLOSS; CEILINGS: FLAT; DOORS & FRAMES: SEMI-GLOSS.
14. SPRAY PAINT ACCESS PANELS TO MATCH THE ADJACENT FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
15. PAINT GYPSUM BOARD CEILINGS AND SOFFITS AS INDICATED IN THE SCHEDULE.
16. SUBMIT SEAMING DIAGRAMS OF FLOORING MATERIALS FOR NAVFAC INTERIOR DESIGNER'S REVIEW PRIOR TO INSTALLATION.
17. TRANSITIONS MUST MEET ABA AND ADA GUIDELINES.
18. TRANSITIONS OCCURING UNDER DOORS MUST BE CENTERED UNDER DOOR.
19. INSTALL MARBLE THRESHOLDS WHERE BATHROOM TILE FLOORING MEETS OTHER FLOORING MATERIALS. INSTALL WOOD TRANSITIONS WHERE TILE FLOORING IN OTHER LOCATIONS MEETS WOOD FLOORING MATERIALS.
20. ALIGN ALL PORCELAIN WALL TILE AND FLOOR TILE.
21. PAINT ALL WOOD AND METAL DOORS, DOOR TRIM, WINDOW TRIM AND WOOD BASE AS INDICATED ON FINISH SCHEDULE I-601.
22. BASIS OF DESIGN FOR KITCHEN CABINETS AND BATH CABINETS: MFR: SHIILOH; DOOR STYLE: LANCASTER; COLOR: SILAS WITH HIGHLIGHT GRAPHITE; WOOD SPECIES: MAPLE.
23. BLOCKING TO BE PROVIDED IN BATH TO ALLOW FOR FUTURE INSTALLATION OF GRAB BARS AS REQUIRED BY ABA. FOLLOW ALL ABA GUIDELINES FOR PLACEMENT.
26. INSTALL WS1 WINDOW SHADES AT ALL EXTERIOR WINDOWS.
27. PORCELAIN TILE TRIM (PTT) AS SPECIFIED TO HAVE JOB FORMED CORNERS. ROUND SHARP EDGES.

INTERIOR FINISH ABBREVIATIONS

CPT	–	CARPET
GWB	–	GYPSUM WALLBOARD
P	–	PAINT
PT	–	PORCELAIN TILE
PTT	–	PORCELAIN TILE TRIM
SC	–	SEALED CONCRETE
SS	–	SOLID SURFACE
WB	–	WOOD BASE
WD	–	WOOD FLOORING
WS	–	WINDOW SHADE
*	–	ADDITIONAL INFORMATION

FINISH KEY:

WALL BASE
FLOOR FINISH/FLOOR ACCENT — FLOOR
WALL FINISH/WALL ACCENT — WALL
CEILING FINISH(ES) — CEILING
COUNTERS — COUNTERS
ADDITIONAL INFO — ADDITIONAL

WD1

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR.

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ??? PW

JTL/APR JTL/DAY RLW

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT A FINISH PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

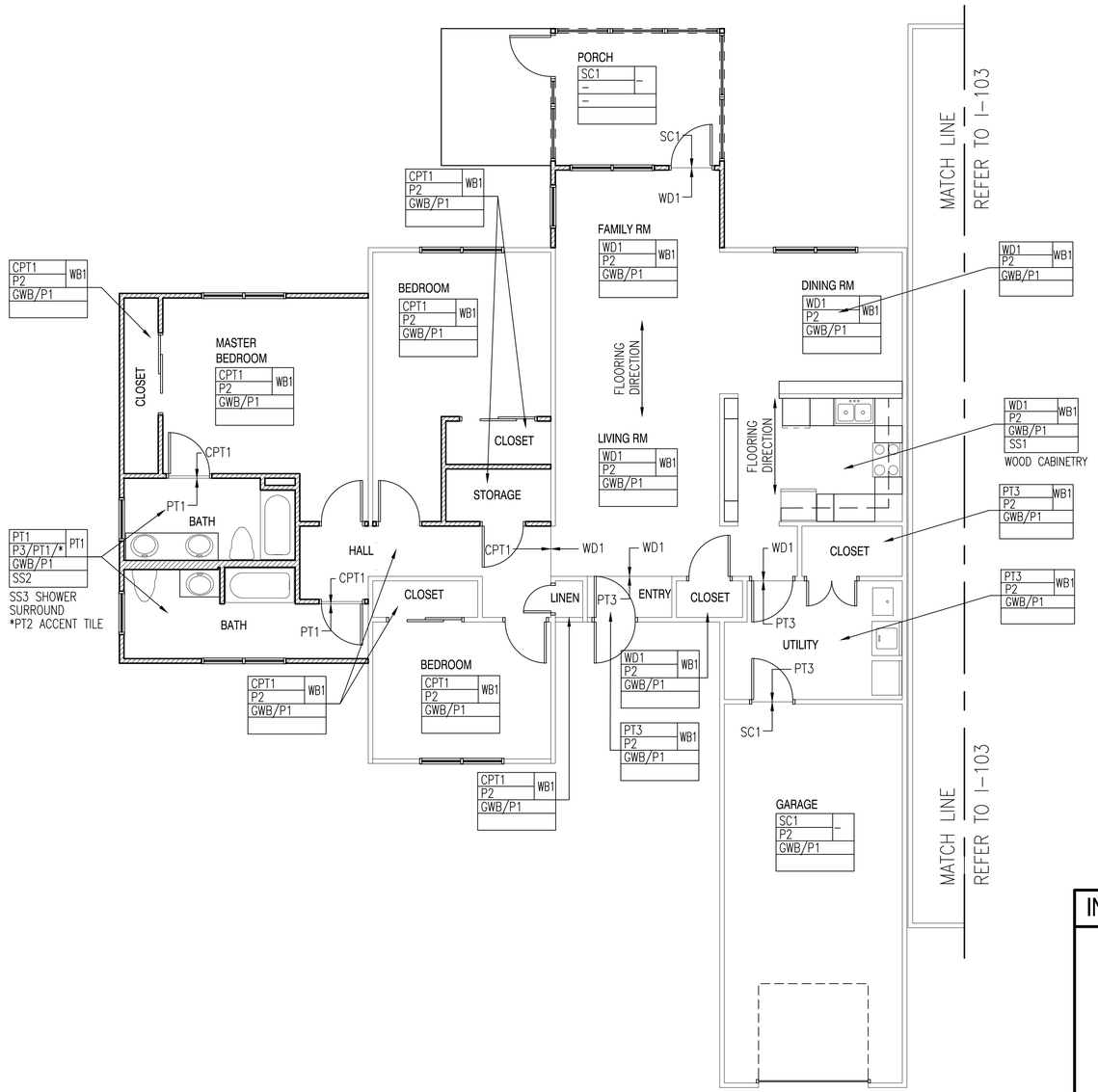
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708318

SHEET 66 OF 120

I-105

DRAWFORM REVISION: 10 MARCH 2009



UNIT B - FINISH PLAN

SCALE: 3/16" = 1'-0"

INTERIOR FINISH ABBREVIATIONS

CPT	–	CARPET
GWB	–	GYPSUM WALLBOARD
P	–	PAINT
PT	–	PORCELAIN TILE
PTT	–	PORCELAIN TILE TRIM
SC	–	SEALED CONCRETE
SS	–	SOLID SURFACE
WB	–	WOOD BASE
WD	–	WOOD FLOORING
WS	–	WINDOW SHADE
*	–	ADDITIONAL INFORMATION

FINISH KEY:

WALL BASE	WD1
FLOOR FINISH/FLOOR ACCENT	FLOOR
WALL FINISH/WALL ACCENT	WALL
CEILING FINISH(ES)	CEILING
COUNTERS	COUNTERS
ADDITIONAL INFO	ADDITIONAL

GENERAL SHEET NOTES

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2. FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCTS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER
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4. DO NOT SUBSTITUTE FINISH MATERIALS DUE TO ORDERING LEAD TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ORDER ALL MATERIALS IN TIME TO AVOID DELAYS.
5. FINISH ALL GYPSUM BOARD SURFACES (WALLS & CEILINGS) WITH A LEVEL 5 FINISH.
6. SURFACE PREPARATION AND CLEANING PROCEDURES MUST BE IN STRICT ACCORDANCE WITH THE INSTRUCTIONS AND SPECIFICATIONS OF THE APPLICABLE FINISH PRODUCT.
7. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
8. EXISTING WALLS MUST BE FULLY SANDED, PATCHED, PRIMED AND PREPARED TO RECEIVE NEW PAINT PER MANUFACTURER'S SPECIFICATIONS.
9. SUBMIT PAINT DRAW DOWNS TO NAVFAC INTERIOR DESIGNER FOR APPROVAL PRIOR TO APPLICATION.
10. FURNISH CERTIFICATION BY THE PAINT MANUFACTURER THAT THE PRODUCTS COMPLY WITH LOCAL REGULATIONS CONTROLLING THE USE OF VOLATILE ORGANIC COMPOUNDS (VOC'S).
11. USE LOW VOC PRIMERS PER PAINT MANUFACTURER'S RECOMMENDATIONS.
12. FOR DARKER/SATURATED PAINT COLORS. FOLLOW MANUFACTURER'S RECOMMENDATION FOR PROPER APPLICATION AND COVERAGE.
13. PAINT SHEEN AS FOLLOWS: ALL LOCATIONS TO BE EGGSHELL EXCEPT THE FOLLOWING: TOILET ROOMS: SEMI-GLOSS; CEILINGS: FLAT; DOORS & FRAMES: SEMI-GLOSS.
14. SPRAY PAINT ACCESS PANELS TO MATCH THE ADJACENT FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
15. PAINT GYPSUM BOARD CEILINGS AND SOFFITS AS INDICATED IN THE SCHEDULE.
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17. TRANSITIONS MUST MEET ABA AND ADA GUIDELINES.
18. TRANSITIONS OCCURING UNDER DOORS MUST BE CENTERED UNDER DOOR.
19. INSTALL MARBLE THRESHOLDS WHERE BATHROOM TILE FLOORING MEETS OTHER FLOORING MATERIALS. INSTALL WOOD TRANSITIONS WHERE TILE FLOORING IN OTHER LOCATIONS MEETS WOOD FLOORING MATERIALS.
20. ALIGN ALL PORCELAIN WALL TILE AND FLOOR TILE.
21. PAINT ALL WOOD AND METAL DOORS, DOOR TRIM, WINDOW TRIM AND WOOD BASE AS INDICATED ON FINISH SCHEDULE I-601.
22. BASIS OF DESIGN FOR KITCHEN CABINETS AND BATH CABINETS: MFR: SHIILOH; DOOR STYLE: LANCASTER; COLOR: SILAS WITH HIGHLIGHT GRAPHITE; WOOD SPECIES: MAPLE.
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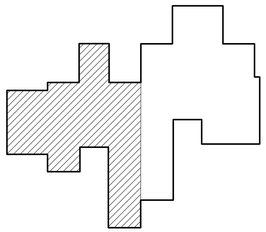
26. INSTALL WS1 WINDOW SHADES AT ALL EXTERIOR WINDOWS.
27. PORCELAIN TILE TRIM (PTT) AS SPECIFIED TO HAVE JOB FORMED CORNERS. ROUND SHARP EDGES.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DER CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B
FINISH PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

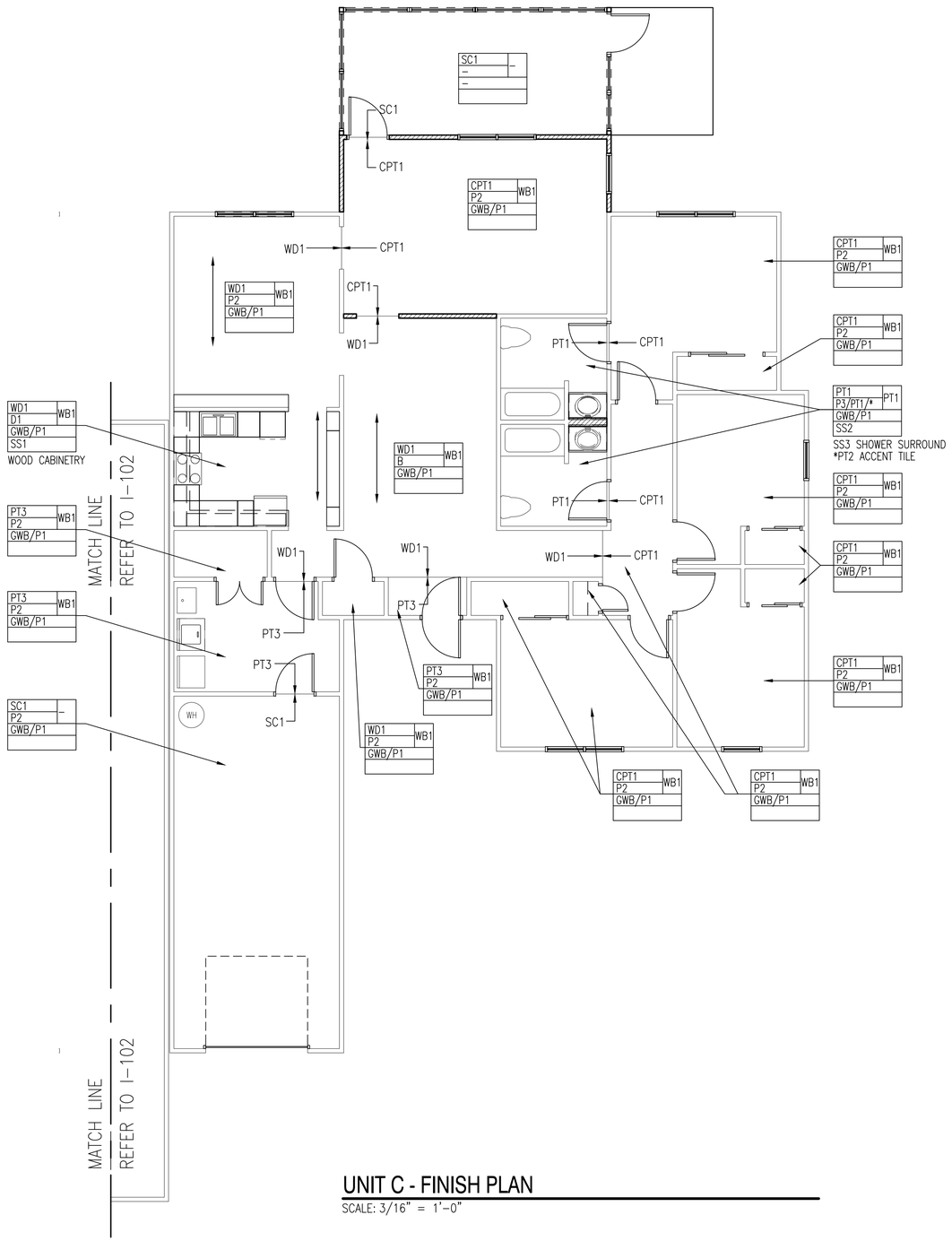
NAVFAC DRAWING NO. 12708319

SHEET 67 OF 120

I-106

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SkeetersLanePenovationsConversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-106.dwg LAYOUT NAME: I-106 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell



UNIT C - FINISH PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. FOR QUESTIONS REGARDING INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS CONTACT THE CONTRACTING OFFICER.
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10. FURNISH CERTIFICATION BY THE PAINT MANUFACTURER THAT THE PRODUCTS COMPLY WITH LOCAL REGULATIONS CONTROLLING THE USE OF VOLATILE ORGANIC COMPOUNDS (VOC'S).
11. USE LOW VOC PRIMERS PER PAINT MANUFACTURER'S RECOMMENDATIONS.
12. FOR DARKER/SATURATED PAINT COLORS. FOLLOW MANUFACTURER'S RECOMMENDATION FOR PROPER APPLICATION AND COVERAGE.
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17. TRANSITIONS MUST MEET ABA AND ADA GUIDELINES.
18. TRANSITIONS OCCURING UNDER DOORS MUST BE CENTERED UNDER DOOR.
19. INSTALL MARBLE THRESHOLDS WHERE BATHROOM TILE FLOORING MEETS OTHER FLOORING MATERIALS. INSTALL WOOD TRANSITIONS WHERE TILE FLOORING IN OTHER LOCATIONS MEETS WOOD FLOORING MATERIALS.
20. ALIGN ALL PORCELAIN WALL TILE AND FLOOR TILE.
21. PAINT ALL WOOD AND METAL DOORS, DOOR TRIM, WINDOW TRIM AND WOOD BASE AS INDICATED ON FINISH SCHEDULE I-601.
22. BASIS OF DESIGN FOR KITCHEN CABINETS AND BATH CABINETS: MFR: SHIILOH; DOOR STYLE: LANCASTER; COLOR: SILAS WITH HIGHLIGHT GRAPHITE; WOOD SPECIES: MAPLE.
23. BLOCKING TO BE PROVIDED IN BATH TO ALLOW FOR FUTURE INSTALLATION OF GRAB BARS AS REQUIRED BY ABA. FOLLOW ALL ABA GUIDELINES FOR PLACEMENT.
26. INSTALL WS1 WINDOW SHADES AT ALL EXTERIOR WINDOWS.
27. PORCELAIN TILE TRIM (PTT) AS SPECIFIED TO HAVE JOB FORMED CORNERS. ROUND SHARP EDGES.

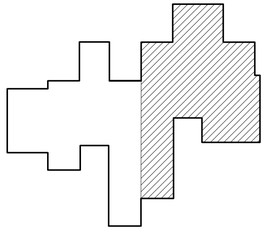
INTERIOR FINISH ABBREVIATIONS

CPT	–	CARPET
GWB	–	GYPSUM WALLBOARD
P	–	PAINT
PT	–	PORCELAIN TILE
PTT	–	PORCELAIN TILE TRIM
SC	–	SEALED CONCRETE
SS	–	SOLID SURFACE
WB	–	WOOD BASE
WD	–	WOOD FLOORING
WS	–	WINDOW SHADE
*	–	ADDITIONAL INFORMATION

FINISH KEY:

WALL BASE
FLOOR FINISH/FLOOR ACCENT
WALL FINISH/WALL ACCENT
CEILING FINISH(ES)
COUNTERS
ADDITIONAL INFO

WD1
FLOOR
WALL
CEILING
COUNTERS
ADDITIONAL



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT C FINISH PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

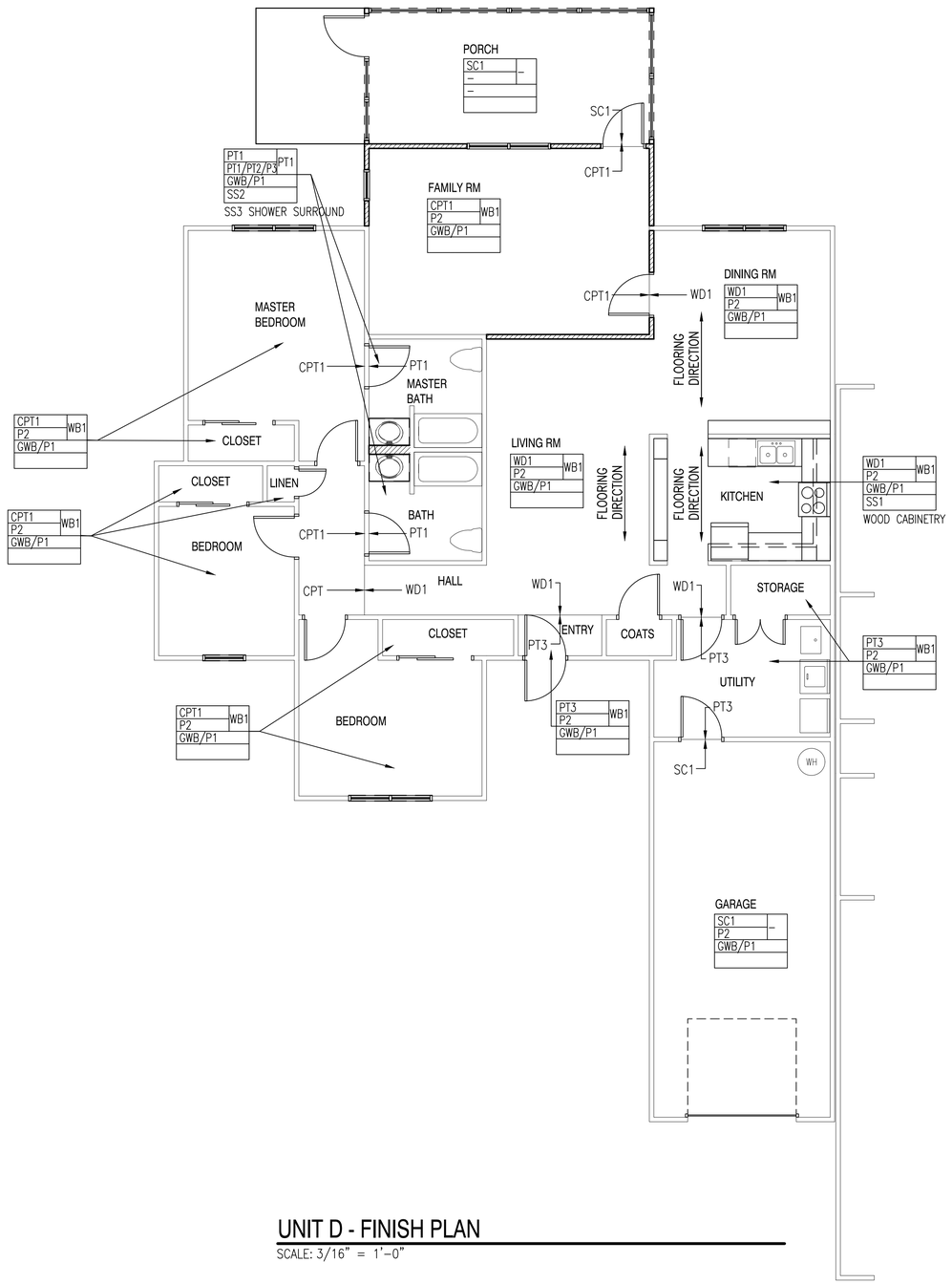
NAVFAC DRAWING NO. 12708320

SHEET 68 OF 120

I-107

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_Skeeter\LineRenovationsNConversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-107.dwg LAYOUT NAME: I-107 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell



UNIT D - FINISH PLAN

SCALE: 3/16" = 1'-0"

INTERIOR FINISH ABBREVIATIONS

CPT	–	CARPET
GWB	–	GYPSUM WALLBOARD
P	–	PAINT
PT	–	PORCELAIN TILE
PTT	–	PORCELAIN TILE TRIM
SC	–	SEALED CONCRETE
SS	–	SOLID SURFACE
WB	–	WOOD BASE
WD	–	WOOD FLOORING
WS	–	WINDOW SHADE
*	–	ADDITIONAL INFORMATION

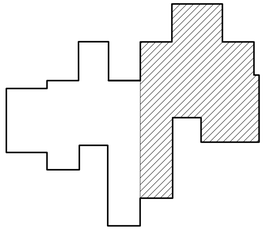
FINISH KEY:

WALL BASE
FLOOR FINISH/FLOOR ACCENT
WALL FINISH/WALL ACCENT
CEILING FINISH(ES)
COUNTERS
ADDITIONAL INFO

FLOOR	WD1
WALL	
CEILING	
COUNTERS	
ADDITIONAL	

GENERAL SHEET NOTES

1. FOR QUESTIONS REGARDING INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS CONTACT THE CONTRACTING OFFICER.
2. FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCTS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER
3. INSTALL MATERIALS/PRODUCTS PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
4. DO NOT SUBSTITUTE FINISH MATERIALS DUE TO ORDERING LEAD TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ORDER ALL MATERIALS IN TIME TO AVOID DELAYS.
5. FINISH ALL GYPSUM BOARD SURFACES (WALLS & CEILINGS) WITH A LEVEL 5 FINISH.
6. SURFACE PREPARATION AND CLEANING PROCEDURES MUST BE IN STRICT ACCORDANCE WITH THE INSTRUCTIONS AND SPECIFICATIONS OF THE APPLICABLE FINISH PRODUCT.
7. COORDINATE THERMOSTAT LOCATION WITH MECHANICAL DRAWINGS AND CONSTRUCTION MANAGER. INSTALL THERMOSTATS NEAR A CORNER OF THE ROOM OR BY LIGHT SWITCHES. DO NOT INSTALL THERMOSTATS IN THE CENTER OF A WALL.
8. EXISTING WALLS MUST BE FULLY SANDED, PATCHED, PRIMED AND PREPARED TO RECEIVE NEW PAINT PER MANUFACTURER'S SPECIFICATIONS.
9. SUBMIT PAINT DRAW DOWNS TO NAVFAC INTERIOR DESIGNER FOR APPROVAL PRIOR TO APPLICATION.
10. FURNISH CERTIFICATION BY THE PAINT MANUFACTURER THAT THE PRODUCTS COMPLY WITH LOCAL REGULATIONS CONTROLLING THE USE OF VOLATILE ORGANIC COMPOUNDS (VOC'S).
11. USE LOW VOC PRIMERS PER PAINT MANUFACTURER'S RECOMMENDATIONS.
12. FOR DARKER/SATURATED PAINT COLORS. FOLLOW MANUFACTURER'S RECOMMENDATION FOR PROPER APPLICATION AND COVERAGE.
13. PAINT SHEEN AS FOLLOWS: ALL LOCATIONS TO BE EGGSHELL EXCEPT THE FOLLOWING: TOILET ROOMS: SEMI-GLOSS; CEILINGS: FLAT; DOORS & FRAMES: SEMI-GLOSS.
14. SPRAY PAINT ACCESS PANELS TO MATCH THE ADJACENT FINISH. PANELS PAINTED BY BRUSH ARE NOT ACCEPTABLE.
15. PAINT GYPSUM BOARD CEILINGS AND SOFFITS AS INDICATED IN THE SCHEDULE.
16. SUBMIT SEAMING DIAGRAMS OF FLOORING MATERIALS FOR NAVFAC INTERIOR DESIGNER'S REVIEW PRIOR TO INSTALLATION.
17. TRANSITIONS MUST MEET ABA AND ADA GUIDELINES.
18. TRANSITIONS OCCURING UNDER DOORS MUST BE CENTERED UNDER DOOR.
19. INSTALL MARBLE THRESHOLDS WHERE BATHROOM TILE FLOORING MEETS OTHER FLOORING MATERIALS. INSTALL WOOD TRANSITIONS WHERE TILE FLOORING IN OTHER LOCATIONS MEETS WOOD FLOORING MATERIALS.
20. ALIGN ALL PORCELAIN WALL TILE AND FLOOR TILE.
21. PAINT ALL WOOD AND METAL DOORS, DOOR TRIM, WINDOW TRIM AND WOOD BASE AS INDICATED ON FINISH SCHEDULE I-601.
22. BASIS OF DESIGN FOR KITCHEN CABINETS AND BATH CABINETS: MFR: SHIILOH; DOOR STYLE: LANCASTER; COLOR: SILAS WITH HIGHLIGHT GRAPHITE; WOOD SPECIES: MAPLE.
23. BLOCKING TO BE PROVIDED IN BATH TO ALLOW FOR FUTURE INSTALLATION OF GRAB BARS AS REQUIRED BY ABA. FOLLOW ALL ABA GUIDELINES FOR PLACEMENT.
26. INSTALL WS1 WINDOW SHADES AT ALL EXTERIOR WINDOWS.
27. PORCELAIN TILE TRIM (PTT) AS SPECIFIED TO HAVE JOB FORMED CORNERS. ROUND SHARP EDGES.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
FINISH PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

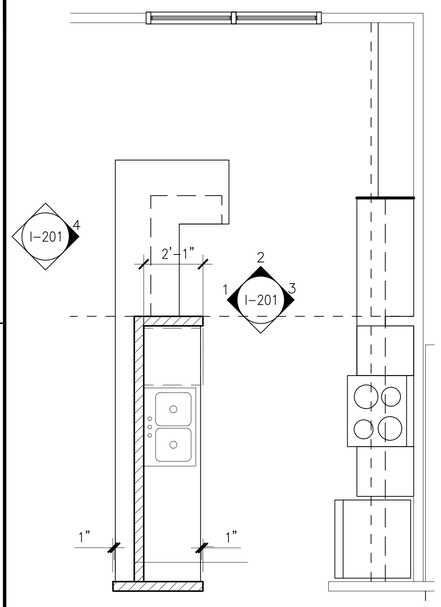
NAVFAC DRAWING NO. 12708321

SHEET 69 OF 120

I-108

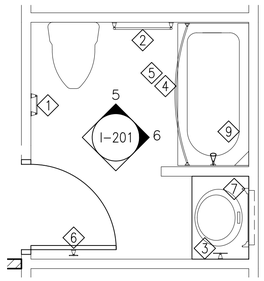
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DRB_SheetsforLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-108.dwg LAYOUT NAME: I-108 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell

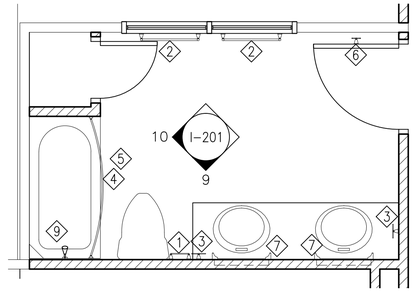


C1 ENLARGED KITCHEN PLAN
SCALE: 3/8"=1'-0"

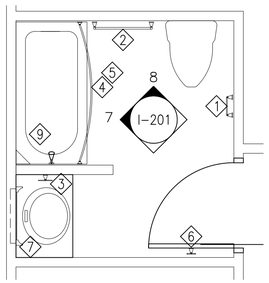
UNIT A: KITCHEN FLOOR PLAN



D2 ENLARGED BATH PLAN
SCALE: 3/8"=1'-0"

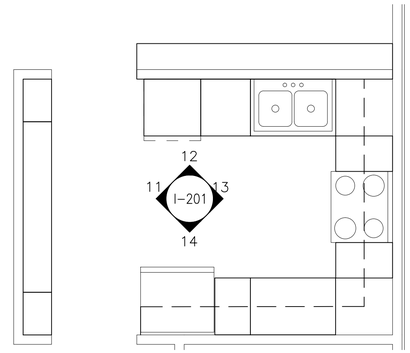


D3 ENLARGED MASTER BATH PLAN
SCALE: 3/8"=1'-0"



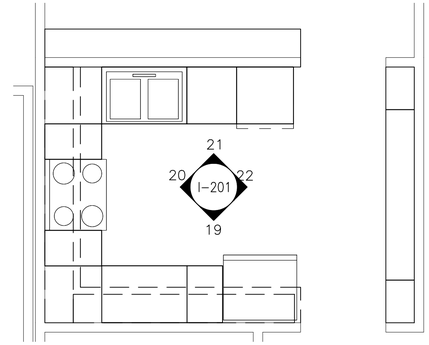
C2 ENLARGED BATH PLAN
SCALE: 3/8"=1'-0"

UNIT A: BATH FLOOR PLANS



D4 ENLARGED KITCHEN PLAN
SCALE: 3/8"=1'-0"

UNIT B & D: KITCHEN FLOOR PLAN



D5 ENLARGED KITCHEN PLAN
SCALE: 3/8"=1'-0"

UNIT C: KITCHEN FLOOR PLAN

ACCESSORY SCHEDULE

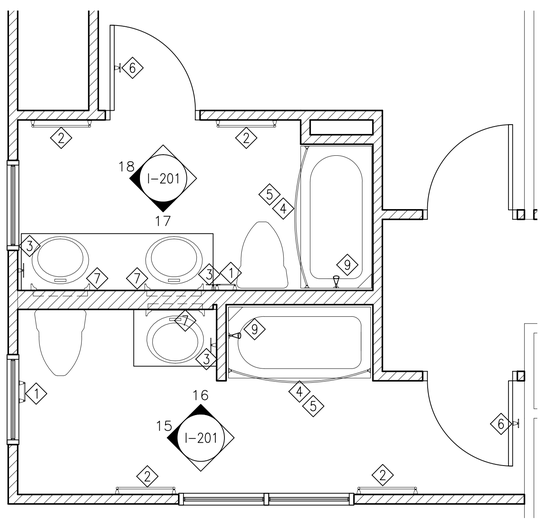
#	DESCRIPTION	MANUFACTURER	MODEL #	MOUNTING HGT.	NOTES
1	TOILET TISSUE HOLDER	MOEN	YB2208BN	24" AFF TO CL	1
2	24" TOWEL BAR	MOEN	YB2224BN	36" AFF TO CL	
3	TOWEL RING	MOEN	YB2286BN	50" AFF TO CL	
4	SHOWER CURTAIN ROD	MOEN	DN2162BN	---	2
5	SHOWER CURTAIN HOOKS	MOEN	SR2201BN	---	
6	ROBE HOOK-DOUBLE	MOEN	YB2203	60" TO CENTER	4
7	MEDICINE CABINET-RECESSED	AMERICAN PRIDE	B-290	SEE ELEVATIONS	3
8	TOILET TANK LEVER	MOEN	YB2201BN	--	
9	SOLID SURFACE CORNER SHELF			48" TO TOP	

ACCESSORY SCHEDULE NOTES

1. LOCATE TOILET TISSUE HOLDER 7" FROM FRONT EDGE OF TOILET TO CENTER OF DISPENSER. BATHROOMS WITH DOUBLE VANITY-TOILET TISSUE HOLDER LOCATED ON BACK WALL ADJACENT TO WATERCLOSET.
2. MOUNT CURTAIN ROD 72 1/2" FROM TILE FLOOR TO BOTTOM OF ROD.
3. COORDINATE THE ROUGH OPENING FOR MEDICINE CABINET WITH MANUFACTURER. MOUNT TO CLEAR FAUCET HEIGHT.
4. SECURE ROBE HOOKS TO BACKS OF DOORS.

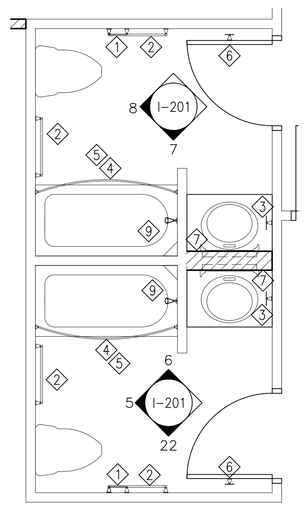
GENERAL NOTES

1. TOILET ACCESSORIES INDICATED ARE THE APPROVED BASIS OF DESIGN PRODUCTS LISTED TO CONVEY SALIENT CHARACTERISTICS AND FINISH ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCTS PROVIDED BY OTHER MANUFACTURERS. PRODUCT SUBSTITUTIONS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED BY THE INTERIOR DESIGNER OF RECORD (IDOR) AND THE NAVFAC INTERIOR DESIGNER AND APPROVED BY THE CONTRACTING OFFICER.
2. PROVIDE BLOCKING AS REQUIRED IN WALLS AT TOILET / SHOWER FOR FUTURE MOUNTING OF ABA/ADA COMPLIANT HAND RAILS.



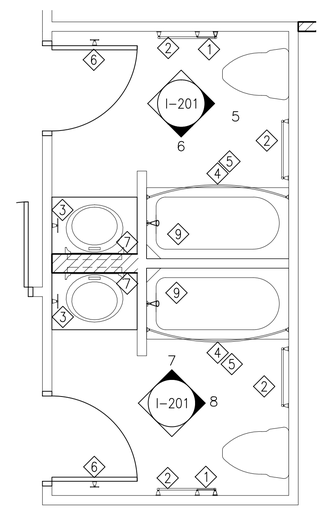
A1 ENLARGED BATH PLANS
SCALE: 3/8"=1'-0"

UNIT B: BATH FLOOR PLAN



A2 ENLARGED BATH PLANS
SCALE: 3/8"=1'-0"

UNIT C: BATH FLOOR PLAN



A3 ENLARGED BATH PLANS
SCALE: 3/8"=1'-0"

UNIT D: BATH FLOOR PLAN

GRAPHIC SCALE

3/8"=1'-0" 0' 2' 4' 6'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

ENLARGED-KITCHEN / RESTROOMS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO.
12708322

SHEET 70 OF 120

I-109

DRAWFORM REVISION: 10 MARCH 2009

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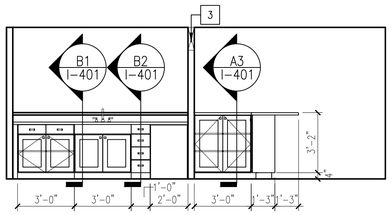
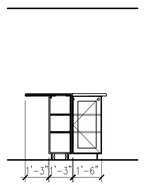
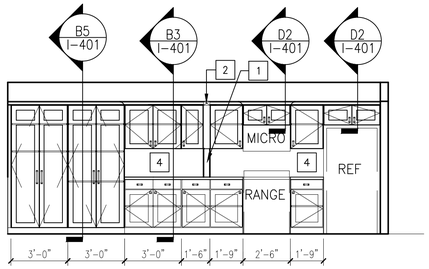


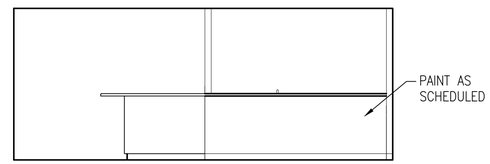
1 ELEV-WEST
SCALE: 1/4"=1'-0"



2 ELEV-NORTH
SCALE: 1/4"=1'-0"

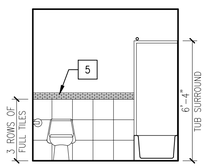


3 ELEV-EAST
SCALE: 1/4"=1'-0"

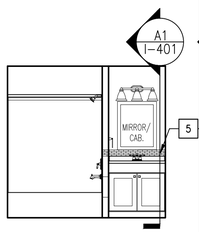


4 ELEV-LIVING ROOM WEST
SCALE: 1/4"=1'-0"

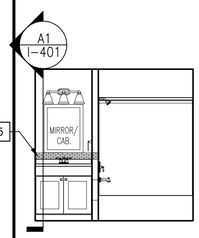
UNIT A - ELEVATIONS-KITCHEN



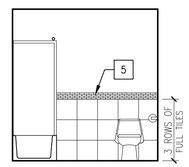
5 ELEV-BATH
SCALE: 1/4"=1'-0"



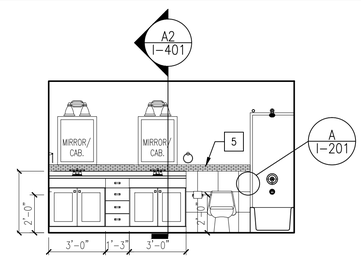
6 ELEV-BATH
SCALE: 1/4"=1'-0"



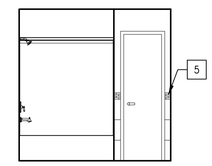
7 ELEV-BATH
SCALE: 1/4"=1'-0"



8 ELEV-BATH
SCALE: 1/4"=1'-0"



9 ELEV-BATH
SCALE: 1/4"=1'-0"

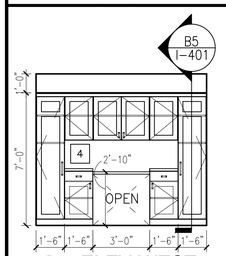


10 ELEV-BATH
SCALE: 1/4"=1'-0"

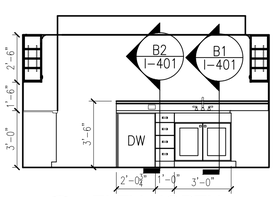
UNIT A, C, D-ELEVATIONS-FULL BATH

UNIT A, C, D -ELEVATIONS-HALF BATH

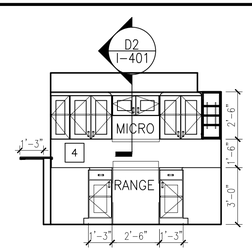
UNIT A- ELEVATIONS-MASTER BATH



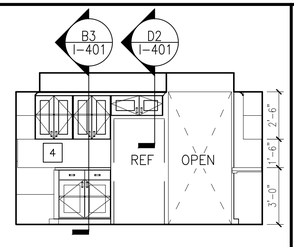
11 ELEV-WEST
SCALE: 1/4"=1'-0"



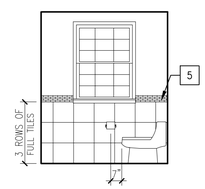
12 ELEV-NORTH
SCALE: 1/4"=1'-0"



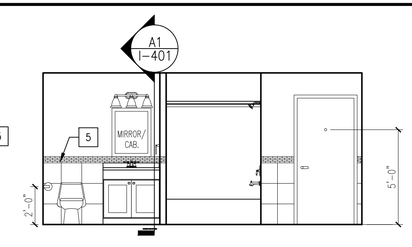
13 ELEV-EAST
SCALE: 1/4"=1'-0"



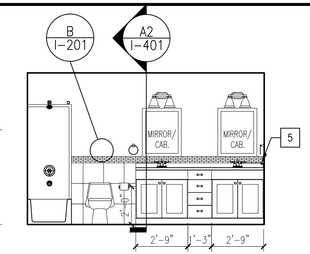
14 ELEV-SOUTH
SCALE: 1/4"=1'-0"



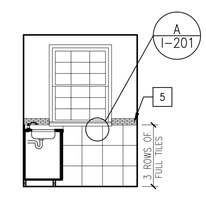
15 ELEV-BATH
SCALE: 1/4"=1'-0"



16 ELEV-BATH
SCALE: 1/4"=1'-0"



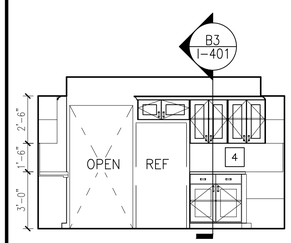
17 ELEV-MASTER BATH
SCALE: 1/4"=1'-0"



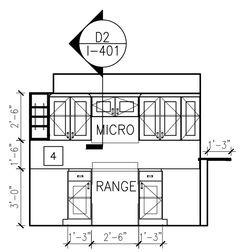
18 ELEV-MASTER BATH
SCALE: 1/4"=1'-0"

UNIT B AND UNIT D -ELEVATIONS-KITCHEN

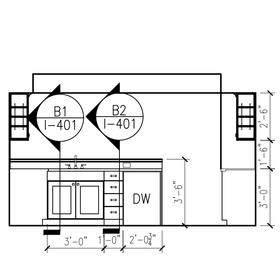
UNIT B - ELEVATIONS BATH



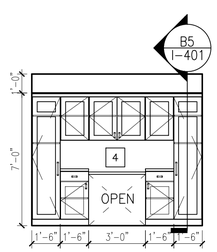
19 ELEV-SOUTH
SCALE: 1/4"=1'-0"



20 ELEV-WEST
SCALE: 1/4"=1'-0"

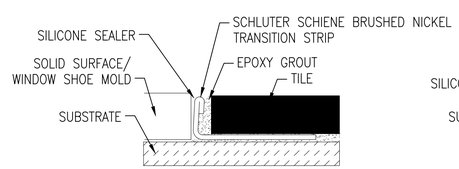


21 ELEV-NORTH
SCALE: 1/4"=1'-0"

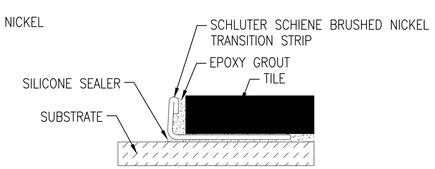


22 ELEV-EAST
SCALE: 1/4"=1'-0"

UNIT C - ELEVATIONS-KITCHEN



A DETAIL AT TILE TRANSITION
SCALE: NTS



B DETAIL AT TILE TRANSITION
SCALE: NTS

GENERAL SHEET NOTES

1. DIMENSIONS ARE SHOWN TO FACE OF FINISH AND ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
2. ALIGN NEW FINISHES WITH EXISTING FINISHES WHERE THEY INTERFACE.
3. REFER TO SHEET A-601 FOR DOOR AND SHEET A-603 FOR WINDOW SCHEDULES.
4. ALIGN BATHROOM FLOOR TILE WITH WALL TILE. SEE ELEVATIONS.
5. COORDINATE ELECTRICAL OUTLETS IN KITCHEN CABINETS WITH ELECTRICAL DRAWINGS.
6. ALL WINDOWS TO RECEIVE BLINDS-SEE SPECIFICATION.
7.
8. TILE TRANSITION STRIP TO BE ROUNDED ON OUTSIDE CORNERS IN THE FIELD. NO SHARP EDGES TO BE EXPOSED.

NEW WORK KEYNOTES

1. COLUMN LOCATED ON A UNIT KITCHEN TO BE PAINTED TO MATCH WALLS.
2. CABINET MANUFACTURE TO CONFIRM CONDITION AT COLUMN FOR UPPER AND LOWER CABINET LAYOUT.
3. COORDINATE HEIGHT OF SOFFIT WITH ARCHITECTURAL AND STRUCTURAL PLANS.
4. QUARTZ BACKSPLASH TO STOP AT END OF CABINETS NEXT TO REFRIGERATOR. COORDINATE CUT OUT FOR MICROHOOD WITH EQUIPMENT.
5. ACCENT TILE AT TOP OF BATHROOM WAINSCOT TO BE 4 TILES HIGH. FIELD CUT.

GRAPHIC SCALE

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

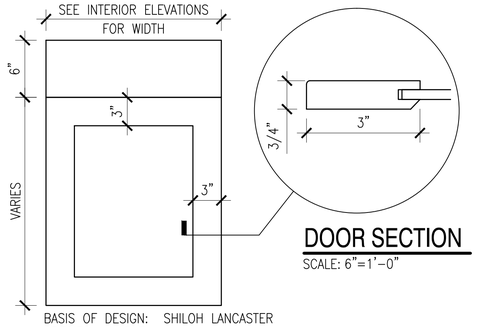
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS PT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
ELEVATIONS-KITCHEN / RESTROOMS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708323
SHEET 72 OF 120

I-201

DRAWFORM REVISION: 10 MARCH 2009

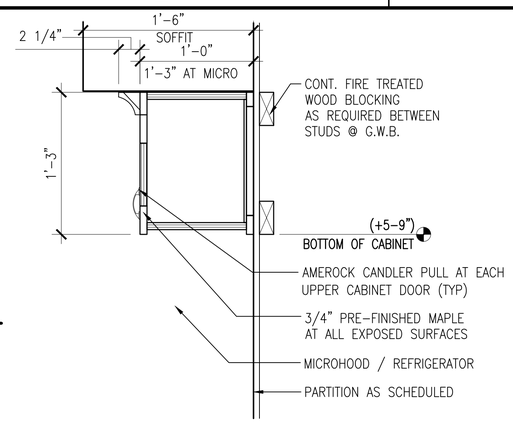
FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DRB_SkeetersLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-201.dwg LAYOUT NAME: I-201 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell



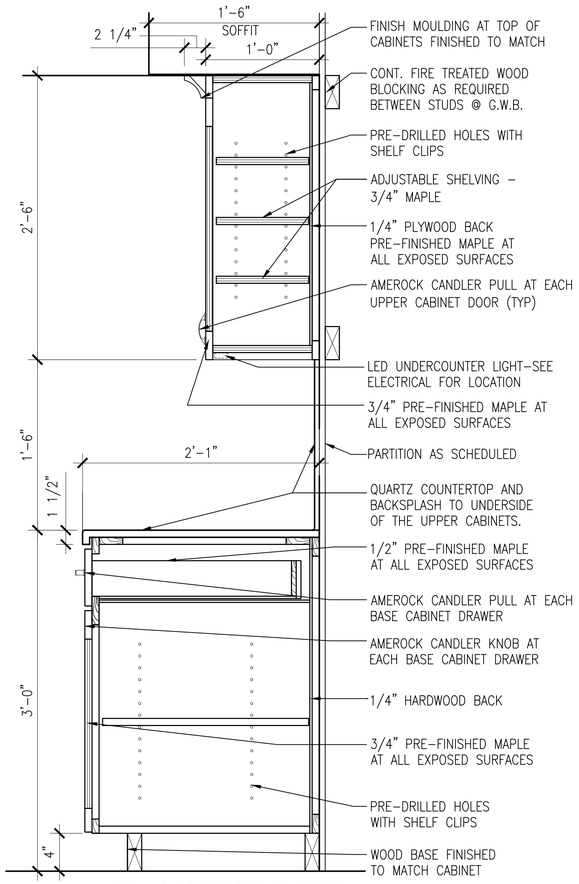
BASIS OF DESIGN: SHILOH LANCASTER
SPECIES: MAPLE
FINISH: SILAS GRAPHITE
HARDWARE: AMEROCK CANDLER, SATIN NICKEL

D1 WOOD DOOR AND DRAWER ELEVATION
SCALE: 1-1/2"=1'-0"

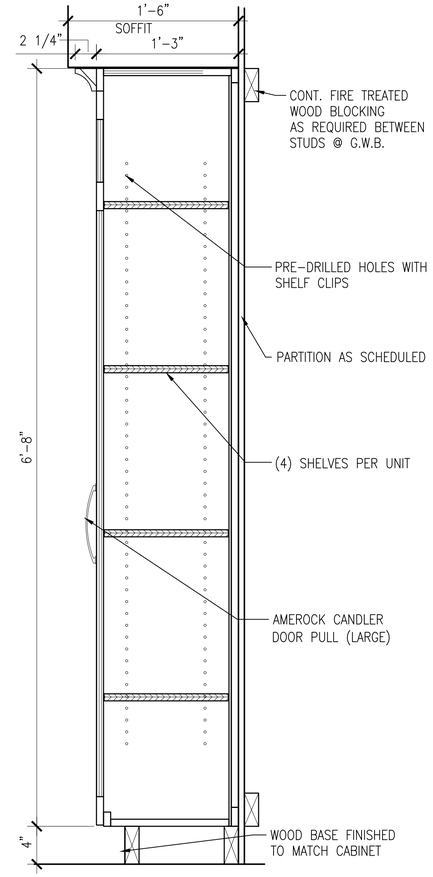
DOOR SECTION
SCALE: 6"=1'-0"



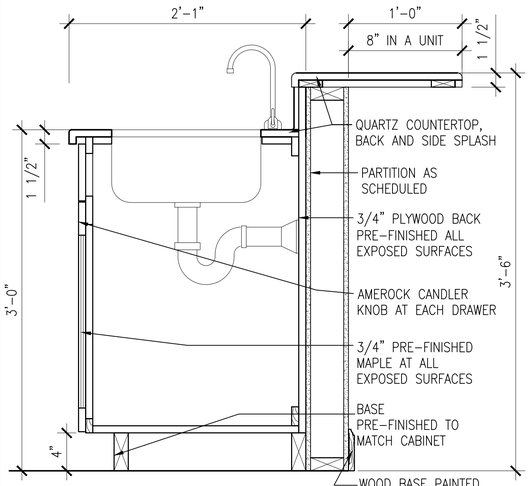
D2 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



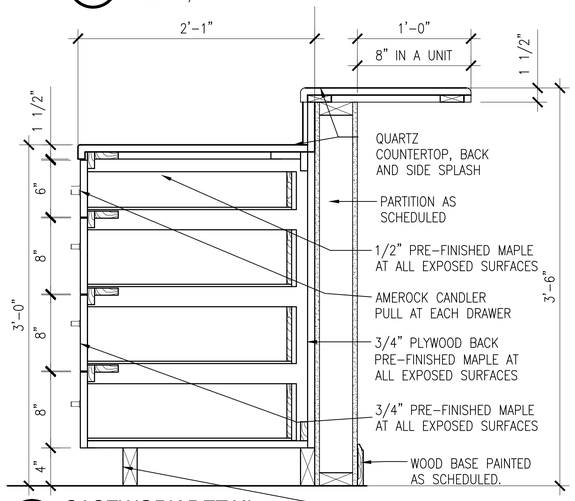
B3 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



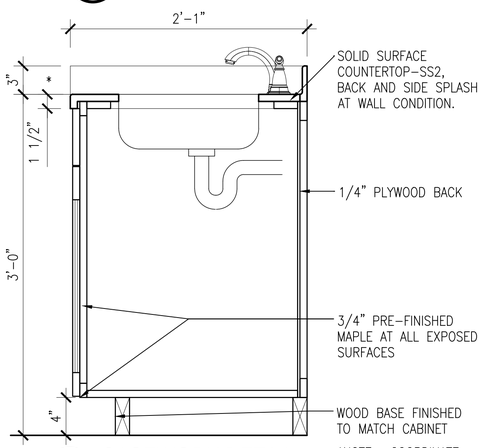
B5 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



B1 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"

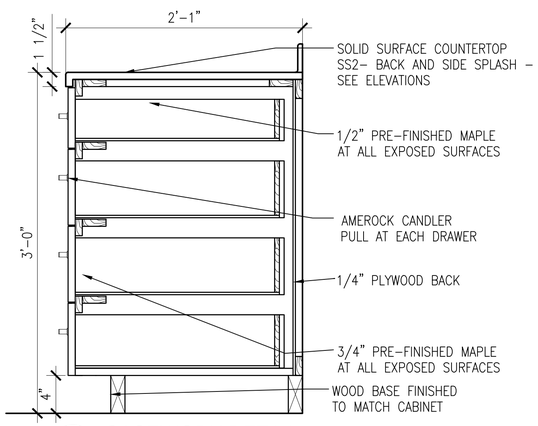


B2 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"

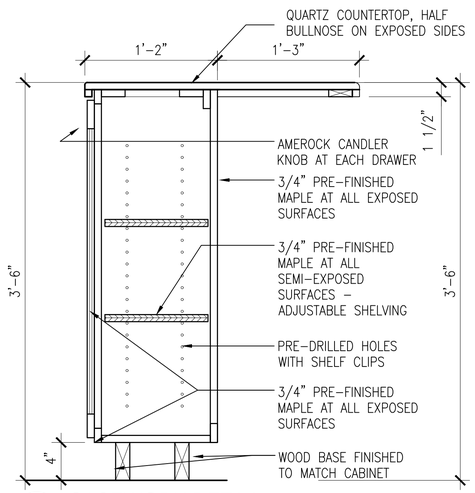


A1 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"

*NOTE: COORDINATE BACKSPLASH AND SIDE SPLASH WITH ACCENT TILE.

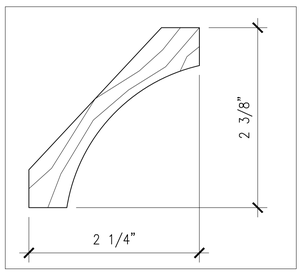


A2 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



A3 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"

FACE PANEL, DOORS, AND DRAWERS TO BE SOLID WOOD



A5 CROWN AT CASEWORK ONLY
SCALE: 1'-0""=1'-0"

GRAPHIC SCALE

1-1/2"=1'-0" 0 6" 1' 1'-6"

6"=1'-0" 0 1" 2" 4"

APPR	
DATE	
DESCRIPTION	
SYM	

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DEP DRW DEP CHK ???

JTL/APK JTL/DAY

BRANCH MANAGER MW

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS PT.
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708324

SHEET 72 OF 120

I-401

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SheetletLaneRenovationAndConversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-401.dwg LAYOUT NAME: I-401 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.prisnell

INTERIOR FINISH LEGEND

TAG	MATERIAL	SIZE	MANUFACTURER	STYLE- TYPE	COLOR	FINISH	INSTALLATION	REMARKS/LOCATION
P1	PAINT		PPG	1006-1	GYPSUM	FLAT		CEILING & SOFFIT PAINT
P2	PAINT		PPG	14-07	SCOTCH MIST	EGGSHELL		GENERAL WALL PAINT
P3	PAINT		PPG	1008-2	STORM'S COMING	SEMI-GLOSS		PAINT ABOVE PT2 IN BATH
P4	PAINT		PPG	1001-1	DELICATE WHITE	SEMI-GLOSS		DOORS / TRIM / WOOD BASE
CPT1	CARPET		BOYLU	LOFT	LFT01 PARCHMENT		BROADLOOM: STRETCHED IN WITH POWER STRETCHER	CARPET BACKING I LOC ES $\frac{7}{16}$" PAD, 8 LB REBOND
WB1	WOOD BASE	4" H	TBD	TBD	P4	SEMI-GLOSS		PAINT GRADE
WD1	STRANDED BAMBOO	5" X 72"	PLYBOO	STILETTO FL-05872CV/CL-NAUF /FSC	CANVAS		SEE FINISH PLAN	SEE FLOORING INSTALLATION DIRECTION ON SHEET I-105, I-106, I-107 AND I-108
PT1	PORCELAIN TILE	13" X 13"	TRINITY	PURE	JOY			BATH FLOOR / WALL TILE
PT2	PORCELAIN TILE	1" X 3" MOSAIC	TRINITY	PURE	LIFE		SEE ELEVATIONS	WALL TILE ACCENT/BATH
PT3	PORCELAIN TILE	12" X 12"	FLORIM USA	MANSION	CAPPUCCINO			UTILITY ROOM TILE
PTT	TILE TRIM		SCHULTER	SCHIENE E100	STAINLESS 304	BRUSHED		INSTALL AT TOP OF PORCELAIN TILE WAINSCOT IN BATH
SC	SEALED CONCRETE			NATURAL COLOR		SMOOTH FINISH		GARAGE /SCREEN PORCH
SS1	SOLID SURFACE	1/2" THICK	LG HAUSYS	VIATERA	INTERMEZZO			KITCHEN/COUNTERTOP
SS2	SOLID SURFACE	1/2" THICK	AVONITE	F1-7501	MOON CRYSTAL			BATH VANITY TOP
SS3	SOLID SURFACE	1/4" THICK	AVONITE	F1-8106	IVORY			SHOWER SURROUNDS LAVATORY SINK BOWLS/ARISTECH #VS-2016
WS1	GRABER	2" SLAT	GRABER	LAKE FOREST FAUX WOOD	TBD			SUBMIT MFG FULL LINE OF SAMPLES FOR COLOR SELECTION ALL WINDOWS

INTERIOR FINISH ABBREVIATIONS

CPT – CARPET
GWB – GYPSUM WALLBOARD
P – PAINT
PT – PORCELAIN TILE
PTT – PORCELAIN TILE TRIM
SC – SEALED CONCRETE
SS – SOLID SURFACE
WB – WOOD BASE
WD – WOOD FLOORING
WS – WINDOW SHADE
* – ADDITIONAL INFORMATION

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY
DES DEP DRW DEP CHK ???
JTL/APK JTL/DAY
BRANCH MANAGER MW
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

FINISH LEGEND

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708325
SHEET 73 OF 120
I-601

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\09_Interiors\P1602-1366573-I-601.dwg LAYOUT NAME: I-601 PLOTTED: Thursday, December 03, 2015 - 2:47pm USER: donna.presnell

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE A NEW WET-PIPE SPRINKLER SYSTEM THROUGHOUT THE STRUCTURE AS OUTLINED ON THE CONTRACT DRAWINGS. SYSTEM MAY INCLUDE PIPING, HANGERS, SPRINKLERS, PIPING CONCEALMENT, AND ALL ASSOCIATED EQUIPMENT. ALL WORK AND INSTALLATION SHALL CONFORM WITH, BUT ARE NOT LIMITED TO THE APPLICABLE PROVISIONS OF THE CODES AND STANDARDS LISTED ON THIS SHEET AND THE CONTRACT DOCUMENTS.
2. SPRINKLER CONTRACTOR TO PROVIDE ALL CONTROL VALVES, WATER FLOW SWITCHES, AND SUPERVISORY SWITCHES. ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL CONNECTIONS AND PROVIDE POWER TO THESE DEVICES.
3. CPVC SPRINKLER SYSTEM PIPING MAY BE USED PROVIDING THE PIPING IS CONCEALED WITHIN GYPSUM OR PLASTER CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE SPRINKLER SYSTEM PIPING WITH STRUCTURAL MEMBERS AND OTHER TRADES THROUGHOUT THE BUILDING. SPRINKLER PIPING IS PROHIBITED IN ATTIC SPACES; PIPING MUST BE INSTALLED INSIDE INTERIOR WALLS.
5. NEW SPRINKLER PIPING SHOWN ON THE DRAWINGS IS SHOWN FOR PURPOSES OF DESIGN INTENT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ADJUST WORK ACCORDINGLY.
6. ALL AREAS SHALL UTILIZE THE NFPA 13D DESIGN STRATEGY UNLESS OTHERWISE INDICATED.
7. ALL PIPE PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE PROVIDED WITH UL LISTED FIRESTOPPING SYSTEMS. FIRE RATED BARRIERS ARE INDICATED ON THE LIFE SAFETY DRAWINGS.
8. PROVIDE ONE CONTROL VALVE ARRANGED TO SHUT OFF BOTH THE DOMESTIC AND SPRINKLER SYSTEM WATER SUPPLY. DO NOT PROVIDE A SEPARATE CONTROL VALVE TO ISOLATE THE SPRINKLER SYSTEM FROM THE DOMESTIC WATER SUPPLY.

SPRINKLER SYSTEM SYMBOLS LEGEND

	CHECK VALVE
	INDICATING CONTROL VALVE
⊗	SPRINKLER RISER
	POINT OF CONNECTION, NEW OR STARTING

APPLICABLE CODES AND STANDARDS

NFPA 1, UNIFORM FIRE CODE, (2012)

NFPA 13D, AUTOMATIC SPRINKLER SYSTEMS FOR RESIDENTIAL OCCUPANCIES, (2010)

NFPA 70, NATIONAL ELECTRIC CODE, (2011)

NFPA 90A, INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, (2012)

NFPA 101, LIFE SAFETY CODE, (2015)

UFC 1-200-01, DESIGN: GENERAL BUILDING REQUIREMENTS, (CHANGE 1, 2013)

UFC 3-600-01, FIRE PROTECTION ENGINEERING FOR FACILITIES, (CHANGE 3, 2013)

UFC 3-600-10N, FIRE PROTECTION ENGINEERING, (2007)

IRC, INTERNATIONAL RESIDENTIAL CODE, (2012)

FIRE ALARM GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE SMOKE DETECTION AND NOTIFICATION IN THE AREA OF WORK OUTLINED ON THE CONTRACT DRAWINGS. ALL WORK AND INSTALLATION SHALL CONFORM WITH, BUT IS NOT LIMITED TO THE APPLICABLE PROVISIONS OF THE CODES AND STANDARDS ON THIS SHEET AND THE CONTRACT DOCUMENTS.
2. PROVIDE SMOKE DETECTORS WITH COMMERCIAL POWER SOURCE AND BATTERY BACKUP.
3. ALL EQUIPMENT AND DEVICES SHALL BE UL LISTED FOR USE IN RESIDENTIAL FIRE ALARM/DETECTION SYSTEMS.

FIRE ALARM SYMBOLS LEGEND

Ⓢ	SMOKE DETECTOR

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES ERZ DRW ERZ CHK DPS

JTL/APK JTL/DAY

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
FIRE PROTECTION NOTES, SYMBOLS, AND LEGEND

SCALE: AS SHOWN

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

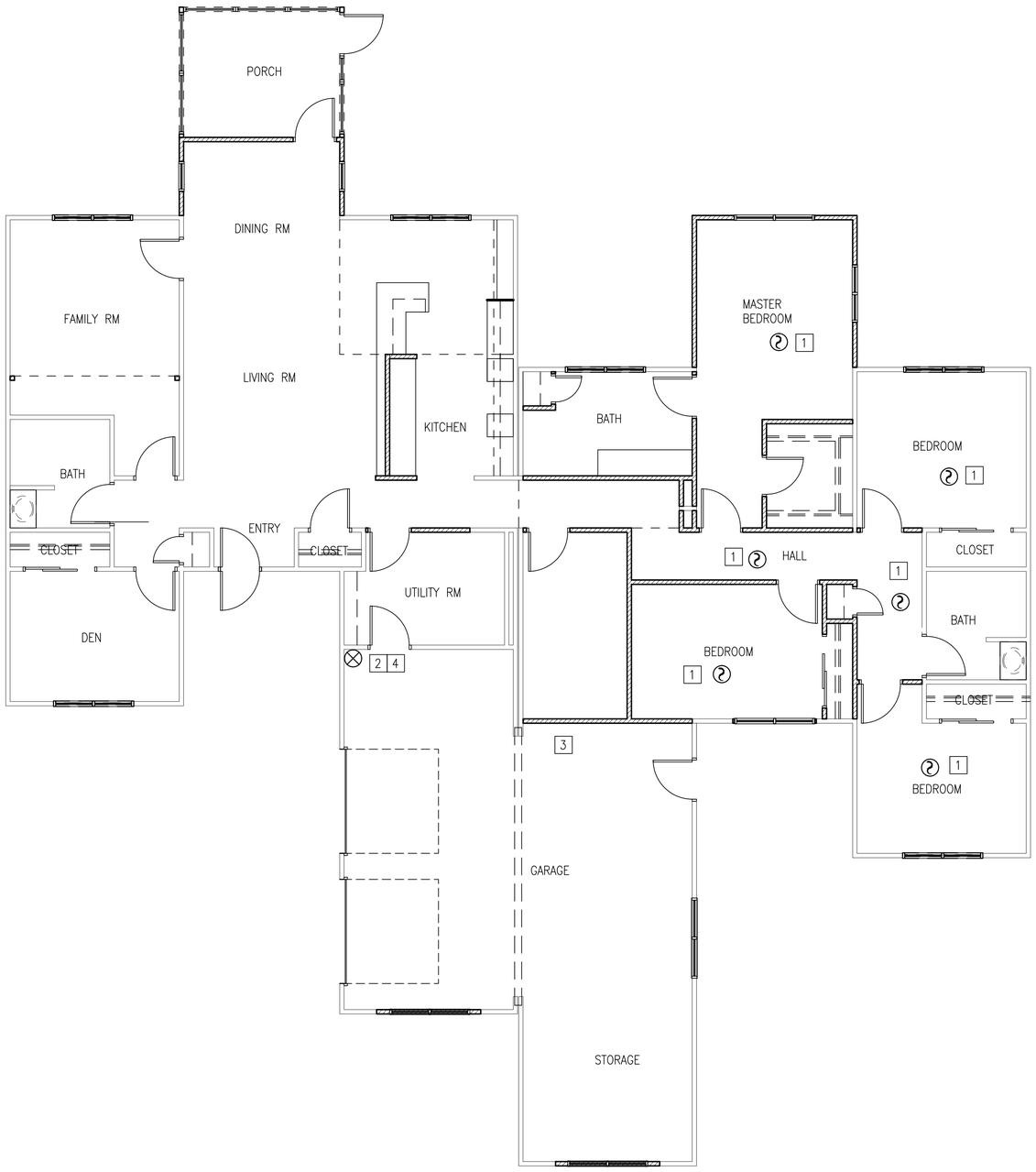
NAVFAC DRAWING NO. 12708326

SHEET 74 OF 120

F-001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetertLineRenovation&Conversion\B_Design\Drawings\Sheet Files\11_Fire ProtectionP1602-1366573-F-001.dwg LAYOUT NAME: F-001 PLOTTED: Friday, December 04, 2015 - 1:55pm USER: eric.zdpnkiewicz



UNIT A FIRE PROTECTION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

GENERAL SHEET NOTES

1. SEE F-001 FOR GENERAL NOTES, SYMBOLS, LEGEND, AND APPLICABLE CODES AND STANDARDS.
2. PROVIDE AN INSPECTOR'S TEST CONNECTION, LOCATED AT THE HYDRAULICALLY MOST REMOTE POINT, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.
3. PROVIDE A MAIN DRAIN AT THE LOWEST POINT OF THE SPRINKLER PIPING, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.

WORK KEYNOTES

1. MULTI STATION SMOKE DETECTORS SHALL BE INTERCONNECTED SUCH THAT ONE DETECTOR IN ALARM CAUSES ALL DETECTORS TO BE IN ALARM.
2. UTILIZE NEW WATER SERVICE LINE FOR SPRINKLER RISER CONNECTION.
3. PROVIDE ONE HOUR FIRE RATING BETWEEN DWELLING UNIT AND ATTACHED GARAGE.
4. SPRINKLER RISER LOCATION WITH BACKFLOW PREVENTER.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES ERZ DRW ERZ CHK DPS

JTL/APK JTL/DAY

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
FIRE PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

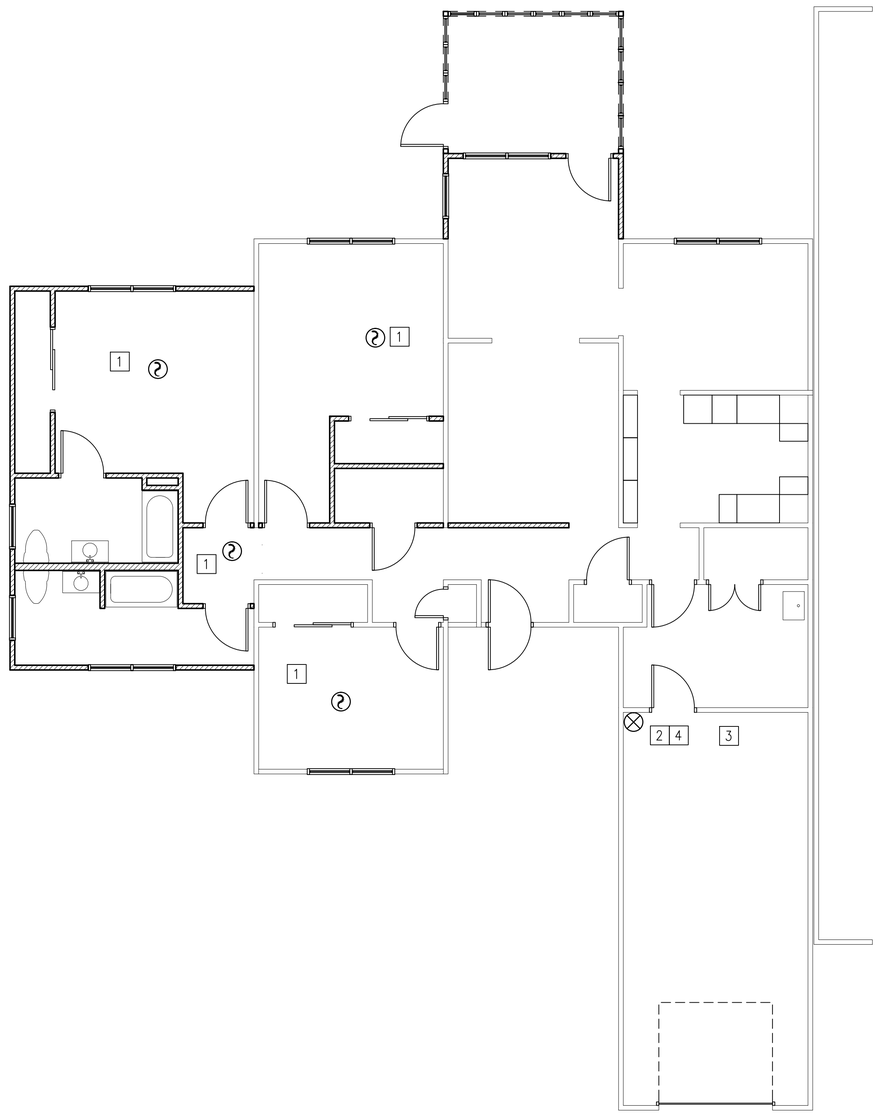
NAVFAC DRAWING NO. 12708327

SHEET 75 OF 120

F-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_SkeetherLineRenovation&Conversion\B_Design\Drawings\Sheet Files\11_Fire Protection\P1602-1366573-F-101.dwg LAYOUT NAME: F-101 PLOTTED: Friday, December 04, 2015 - 1:57pm USER: eric.zdanklewicz



UNIT B FIRE PROTECTION PLAN

SCALE: 3/16" = 1'-0"

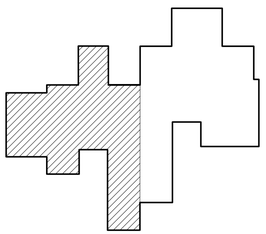
GENERAL SHEET NOTES

1. SEE F-001 FOR GENERAL NOTES, SYMBOLS, LEGEND, AND APPLICABLE CODES AND STANDARDS.
2. PROVIDE AN INSPECTOR'S TEST CONNECTION, LOCATED AT THE HYDRAULICALLY MOST REMOTE POINT, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.
3. PROVIDE A MAIN DRAIN AT THE LOWEST POINT OF THE SPRINKLER PIPING, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.

WORK KEYNOTES

1. MULTI STATION SMOKE DETECTORS SHALL BE INTERCONNECTED SUCH THAT ONE DETECTOR IN ALARM CAUSES ALL DETECTORS TO BE IN ALARM.
2. UTILIZE NEW WATER SERVICE LINE FOR SPRINKLER RISER CONNECTION.
3. PROVIDE ONE HOUR FIRE RATING BETWEEN DWELLING UNIT AND ATTACHED GARAGE.
4. SPRINKLER RISER LOCATION WITH BACKFLOW PREVENTER.

KEYPLAN



UNIT B KEY PLAN

SCALE: NTS

PLAN NORTH

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES ERZ DRW ERZ CHK DPS

JTL/APK JTL/DAY

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B
FIRE PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

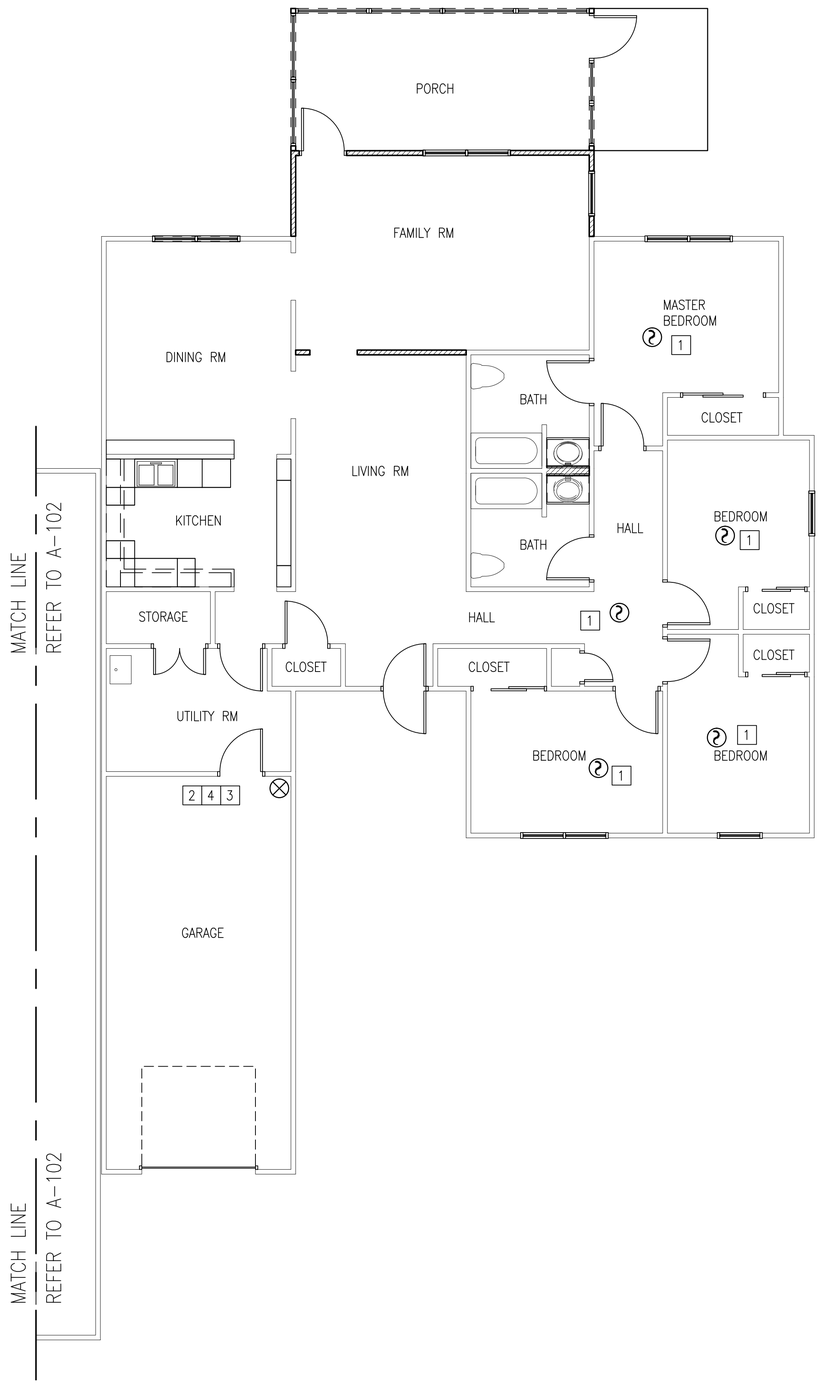
NAVFAC DRAWING NO. 12708328

SHEET 76 OF 120

F-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sketch\LineRenovation&Conversion\B_Design\Drawings\Sheet Files\11_Fire ProtectionP1602-1366573-F-102.dwg LAYOUT NAME: F-102 PLOTTED: Friday, December 04, 2015 - 1:58pm USER: eric.zdanklewicz



UNIT C FIRE PROTECTION PLAN

SCALE: 3/16" = 1'-0"

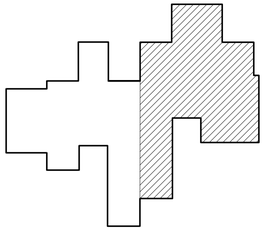
GENERAL SHEET NOTES

1. SEE F-001 FOR GENERAL NOTES, SYMBOLS, LEGEND, AND APPLICABLE CODES AND STANDARDS.
2. PROVIDE AN INSPECTOR'S TEST CONNECTION, LOCATED AT THE HYDRAULICALLY MOST REMOTE POINT, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.
3. PROVIDE A MAIN DRAIN AT THE LOWEST POINT OF THE SPRINKLER PIPING, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.

WORK KEYNOTES

1. MULTI STATION SMOKE DETECTORS SHALL BE INTERCONNECTED SUCH THAT ONE DETECTOR IN ALARM CAUSES ALL DETECTORS TO BE IN ALARM.
2. UTILIZE NEW WATER SERVICE LINE FOR SPRINKLER RISER CONNECTION.
3. PROVIDE ONE HOUR FIRE RATING BETWEEN DWELLING UNIT AND ATTACHED GARAGE.
4. SPRINKLER RISER LOCATION WITH BACKFLOW PREVENTER.

KEYPLAN



PLAN NORTH

UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO.

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES ERZ DRW ERZ CHK DPS

JTL/APK JTL/DAY

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C
FIRE PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

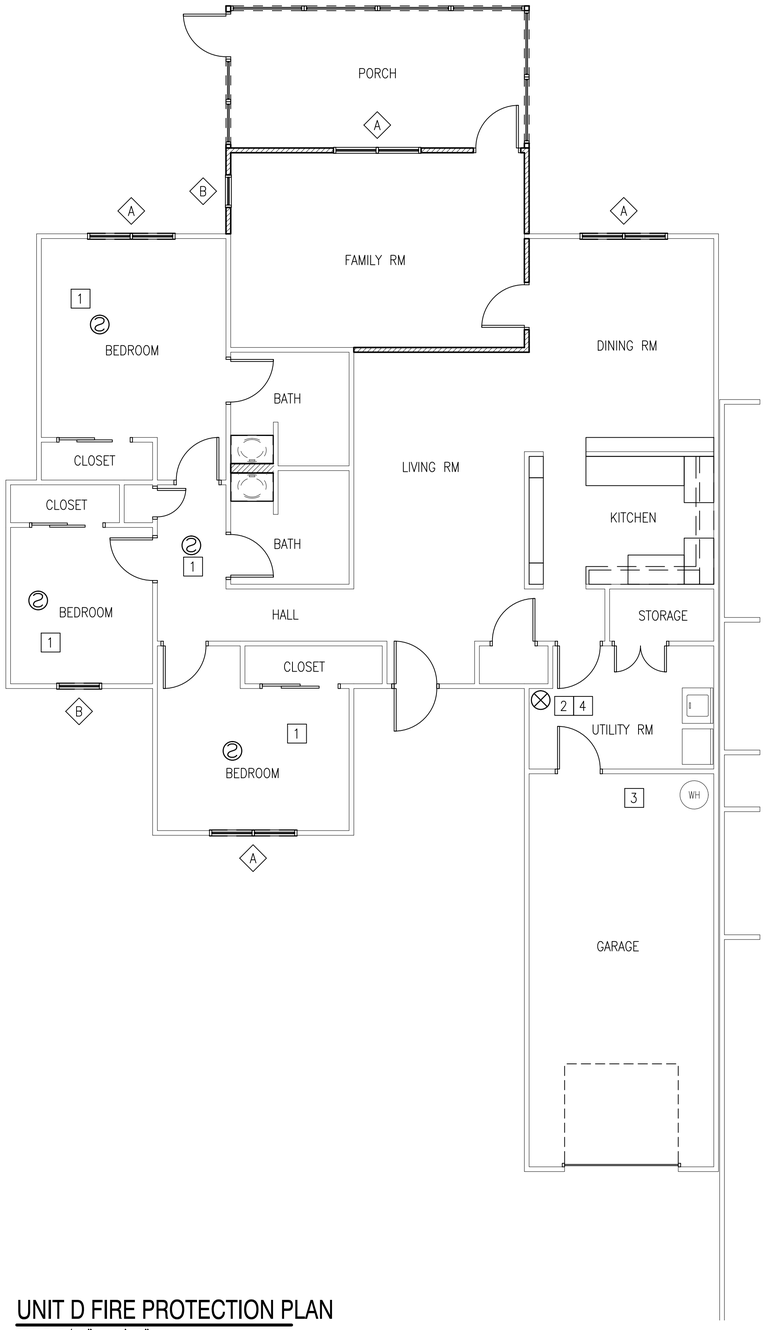
NAVFAC DRAWING NO. 12708329

SHEET 77 OF 120

F-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Skeeter Lane Renovation&Conversion\B_Design\Drawings\Sheet Files\11_Fire Protection\P1602-1366573-F-103.dwg LAYOUT NAME: F-103 PLOTTED: Friday, December 04, 2015 - 1:59pm USER: eric.zdanklewicz



UNIT D FIRE PROTECTION PLAN

SCALE: 3/16" = 1'-0"

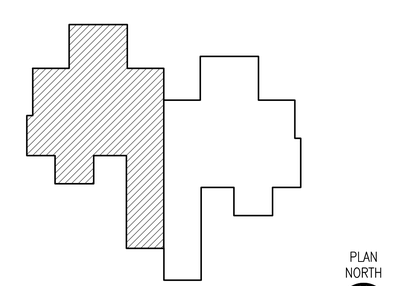
GENERAL SHEET NOTES

1. SEE F-001 FOR GENERAL NOTES, SYMBOLS, LEGEND, AND APPLICABLE CODES AND STANDARDS.
2. PROVIDE AN INSPECTOR'S TEST CONNECTION, LOCATED AT THE HYDRAULICALLY MOST REMOTE POINT, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.
3. PROVIDE A MAIN DRAIN AT THE LOWEST POINT OF THE SPRINKLER PIPING, THAT DISCHARGES OUTSIDE TO A SPLASHBLOCK OR PAVED AREA.

WORK KEYNOTES

1. MULTI STATION SMOKE DETECTORS SHALL BE INTERCONNECTED SUCH THAT ONE DETECTOR IN ALARM CAUSES ALL DETECTORS TO BE IN ALARM.
2. UTILIZE NEW WATER SERVICE LINE FOR SPRINKLER RISER CONNECTION.
3. PROVIDE ONE HOUR FIRE RATING BETWEEN DWELLING UNIT AND ATTACHED GARAGE.
4. SPRINKLER RISER LOCATION WITH BACKFLOW PREVENTER.

KEYPLAN



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES ERZ DRW ERZ CHK DPS

JTL/APK JTL/DAY

BRANCH MANAGER DPS

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
FIRE PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

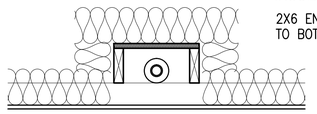
NAVFAC DRAWING NO. 12708330

SHEET 78 OF 120

F-104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\11_Fire ProtectionP1602-1366573-F-104.dwg LAYOUT NAME: F-104 PLOTTED: Friday, December 04, 2015 - 1:58pm USER: eric.zdanklewicz



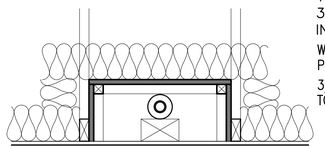
SCREW ATTACH 3/4" PLYWOOD TOP TO 2X6, CLOSE END WITH 3/4" PLYWOOD, COVER WITH BATT INSULATION

2X6 ENCLOSURE ATTACHED TO BOTTOM CHORD OF TRUSS

WRAP SPRINKLER PIPE WITH PIPE INSULATION

INTERRUPT EXISTING INSULATION AT ENCLOSURE

PERPENDICULAR TO BOTTOM CHORD



SCREW ATTACH 3/4" PLYWOOD TOP TO 2X2, CLOSE END WITH 3/4" PLYWOOD, COVER WITH BATT INSULATION

WRAP SPRINKLER PIPE WITH PIPE INSULATION

3/4" PLYWOOD ENCLOSURE ATTACHED TO TRUSS MEMBERS

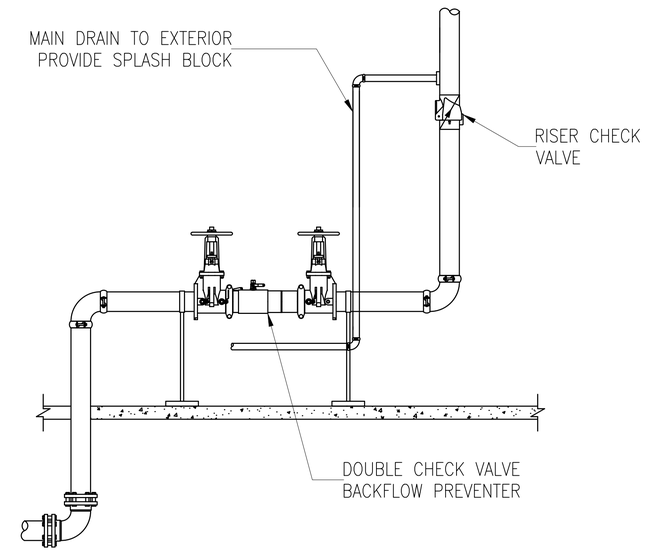
INTERRUPT EXISTING INSULATION AT ENCLOSURE

WOOD BLOCKING TO MATCH BOTTOM CHORD HEIGHT

PARALLEL TO BOTTOM CHORD

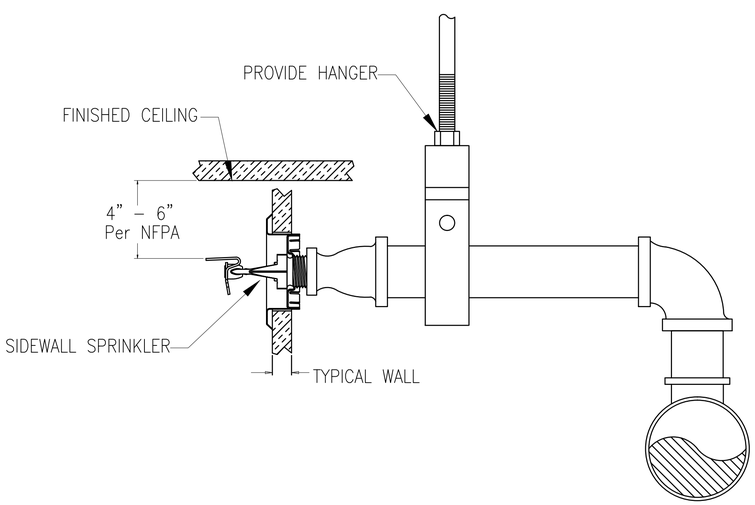
C1 HEATED ATTIC CHASE SPRINKLER DETAIL

SCALE: 1" = 1'



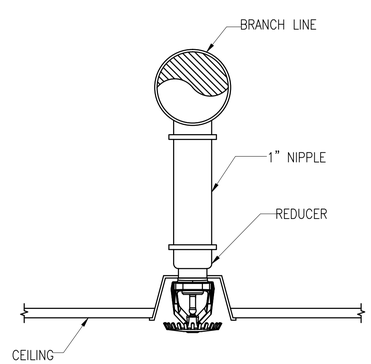
C4 SPRINKLER RISER DETAIL

SCALE: NONE



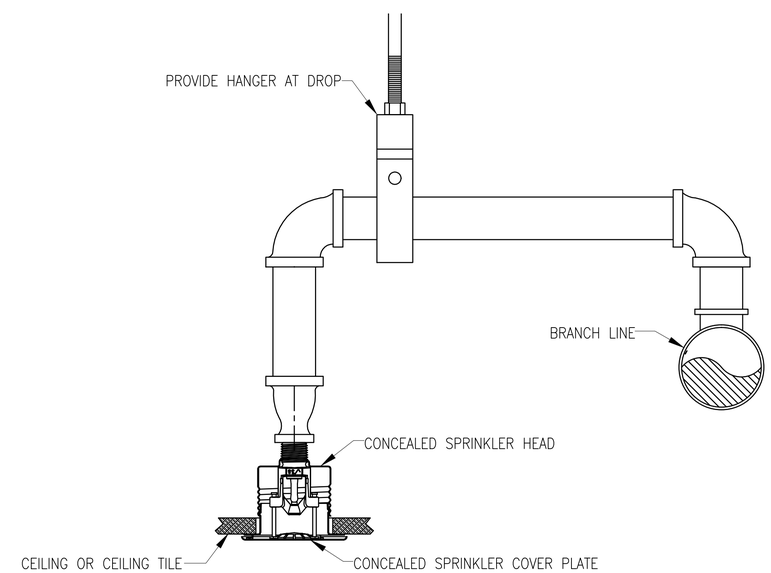
A1 SIDEWALL SPRINKLER DETAIL

SCALE: NONE



A3 DROP NIPPLE PIPE DETAIL

SCALE: NONE



A4 CONCEALED SPRINKLER DETAIL

SCALE: NONE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE 12/04/2015

DES: ERZ DRW: ERZ CHK: DPS

JTL/APK: JTL/DAY

BRANCH MANAGER: DPS

CHIEF ENG/ARCH: RLW RLW

FIRE PROTECTION: DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

FIRE PROTECTION PLAN DETAILS

SCALE: AS SHOWN

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708331

SHEET 79 OF 120

F-501

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\Renovation&Conversion\BL_Design\Drawings\Sheet Files\11_Fire Protection\P1602-1366573-F-501.dwg LAYOUT NAME: F-501 PLOTTED: Friday, December 04, 2015 - 1:59pm USER: eric.zdonkiewicz

LEGEND AND ABBREVIATIONS

- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)
- SANITARY SEWER OR WASTE PIPE (W)
- SANITARY VENT PIPE (V)
- CA — COMPRESSED AIR PIPING (CA)
- DOWNWARD SLOPE
- FLOW ARROW
- GATE VALVE (HORIZONTAL & VERTICAL)
- CHECK VALVE
- TEMPERATURE AND PRESSURE RELIEF VALVE
- UNION
- HOSE BIBB (HB) OR WALL HYDRANT (WH)
- BALANCE VALVE WITH PRESSURE TAPS
- SCO — STACK CLEAN OUT
- CAPPED PIPE
- FLOOR DRAIN (FD)
- FLOOR CLEANOUT (FCO)
- VENT THRU ROOF (VTR)
- 1 — NEW WORK NOTE
- P-1 — PLUMBING FIXTURE MARK (SEE SCHEDULE ON SHEET P-603)
- FD-1 — FLOOR DRAIN MARK (SEE SCHEDULE ON SHEET P-603)
- DWH-1 — WATER HEATER MARK (SEE SCHEDULE ON SHEET P-603)
- FS-1 — FLOOR SINK MARK (SEE SCHEDULE ON SHEET P-603)
- MV-1 — MIXING VALVE MARK (SEE SCHEDULE ON SHEET P-603)
- PIPE TURNING DOWN
- PIPE TURNING UP
- 222 — ROOM NUMBER
- THERMOMETER
- PRESSURE GAUGE
- CONNECTION OF NEW TO EXISTING
- LIMITS OF DEMOLITION

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BLDG.	BUILDING
BF	BELOW FLOOR
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BG	BELOW GRADE
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
CW	COLD WATER
DCWS	DOMESTIC COLD WATER SUPPLY
DN.	DOWN
DWV	DRAIN, WASTE, VENT
EA	EACH
EL	ELEVATION
EQUIP	EQUIPMENT
F	FAHRENHEIT
FT	FEET
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC	HANDICAP ACCESSIBLE
HP	HORSEPOWER
HZ	HERTZ
HW	HOT WATER
INV	INVERT ELEVATION
KW	KILOWATT
LAV	LAVATORY
MIN	MINIMUM
NIC	NOT IN CONTRACT
PD	PRESSURE DROP
PH	PHASE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY
SCO	STACK CLEANOUT
SS	STAINLESS STEEL
TEMP	TEMPERATURE
TP	TRAP PRIMER
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET

PLUMBING GENERAL NOTES

1. ALL WALL HYDRANTS SHALL BE MOUNTED 24" ABOVE FINISHED GRADE.
2. SLOPES AND INVERT ELEVATIONS OF ALL INTERIOR PIPING SHALL BE ESTABLISHED BEFORE ANY PIPING IS INSTALLED, IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. ALL PIPING SHALL BE RUN TO AVOID CONFLICT WITH OTHER TRADES.
3. COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS PRIOR TO ROUGHING-IN PLUMBING FIXTURES.
4. MAKE PROPER HOT AND COLD WATER, WASTE, VENT, COMPRESSED AIR, AND GAS, ETC PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCHES, FITTINGS AND CONNECTIONS ARE NOT SHOWN.
5. PROVIDE DEEP SEAL TRAPS FOR ALL FLOOR DRAINS.
6. GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH PLUMBING DRAWING OF THIS SET. GENERAL NOTES SPECIFIC TO INDIVIDUAL PLUMBING DRAWINGS WILL BE SHOWN ON THE RESPECTIVE PLUMBING DRAWING.
7. RUN ALL EXPOSED PIPING AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS, AND OFFSETS AS REQUIRED.
8. INSTALLATION OF ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TJH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708332

SHEET 80 OF 120

P-001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DBB_Sheetert.oneRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-001.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:45pm USER: john.m.taylor1

UNIT A - PLUMBING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

GENERAL SHEET NOTES

1. COORDINATE ALL WORK WITH ARCHITECTURAL DRAWINGS FOR DEMOLITION AND NEW WORK.
2. ANY ITEMS SHOWN WITHOUT A "D" DESIGNATION ARE FOR CLARITY ONLY AND NOT TO BE REMOVED.

DEMOLITION KEYNOTES

1. REMOVE DOMESTIC WATER HEATER AND ALL ASSOCIATED PIPING AND VALVES.
2. REMOVE DOMESTIC WATER SUPPLY PIPING BACK TO WATER MAIN. SEE CIVIL SHEETS FOR CONTINUATION.
3. REMOVE CW PIPING FOR HOSE BIBB INCLUDING HOSE BIBB BACK TO MAIN AND CAP.
4. REMOVE HOT AND COLD WATER PIPING FOR WASHING MACHINE AND LAUNDRY SINK BACK TO MAIN AND CAP. INCLUDING WASHING MACHINE CONNECTION BOX AND FAUCET AND VALVES FOR LAUNDRY SINK.
5. REMOVE WASHING MACHINE CONNECTION BOX AND UTILITY SINK SANITARY PIPING INCLUDING VENT PIPING AND CAP AT MAINS.
6. SAW CUT SLAB AS NEEDED TO REMOVE 24" +- OF SANITARY PIPING AND PROVIDE FOR CONNECTION OF NEW TO EXISTING.
7. REMOVE EXISTING SANITARY PIPING AND CAP.
8. REMOVE EXISTING KITCHEN SINK SANITARY AND VENT PIPING AND CAP PIPING AT MAIN.
9. SAW CUT SLAB AS NECESSARY TO CONNECT NEW 2"SANITARY FROM KITCHEN SINK TO EXISTING SANITARY.
10. REMOVE SINK, ICE MAKER CONNECTION BOX, DISHWASHER AND ALL ASSOCIATED PIPING. REMOVE PIPING BACK TO MAIN AND CAP.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A PLUMBING DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

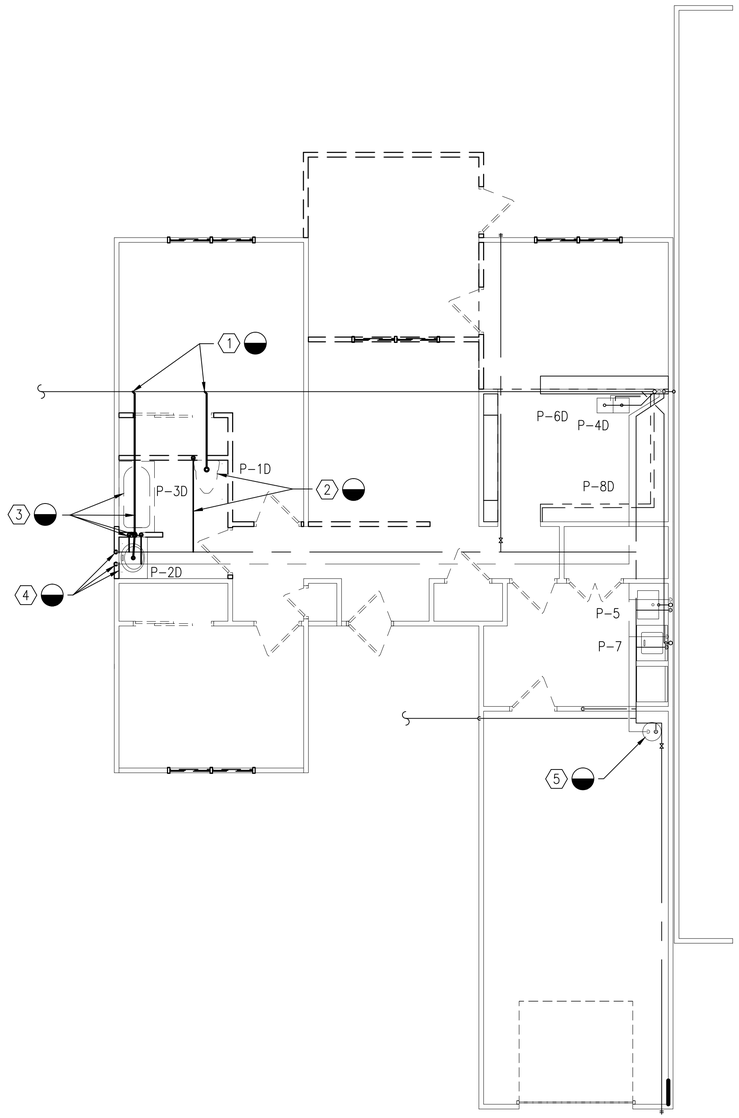
NAVFAC DRAWING NO. 12708339

SHEET 87 OF 120

PD101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationNConversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-PD101.dwg LAYOUT NAME: # ### PLOTTED: Thursday, December 03, 2015 - 12:45pm USER: john.m.taylor1



UNIT B - PLUMBING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

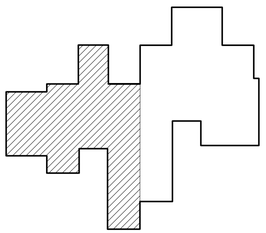
PLAN NORTH

GENERAL SHEET NOTES

1. NO DEMOLITION OF EXISTING PLUMBING PIPING IN THE KITCHEN AREA.
2. ITEMS SHOW WITHOUT A "D" DESIGNATION ARE SHOWN FOR CLARITY ONLY.

DEMOLITION KEYNOTES

1. SAW CUT SLAB AS NEEDED TO REMOVE EXISTING 2" AND 4" SANITARY PIPING FROM EXISTING FIXTURES BACK TO MAIN AND CAP.
2. REMOVE TOILET AND SANITARY AND CW PIPING. CAP CW PIPING AT MAIN.
3. REMOVE TUB, SANITARY PIPING, VENT PIPING, AND CW & HW PIPING. CAP CW, HW, AND VENT PIPING AT MAINS.
4. REMOVE SINK, SANITARY PIPING, VENT PIPING, AND CW AND HW PIPING BACK TO MAIN. CAP VENT PIPING AT MAIN. PREP CW AND HW WATER PIPING FOR CONNECTION OF NEW.
5. REMOVE AND REPLACE WATER HEATER.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B PLUMBING DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

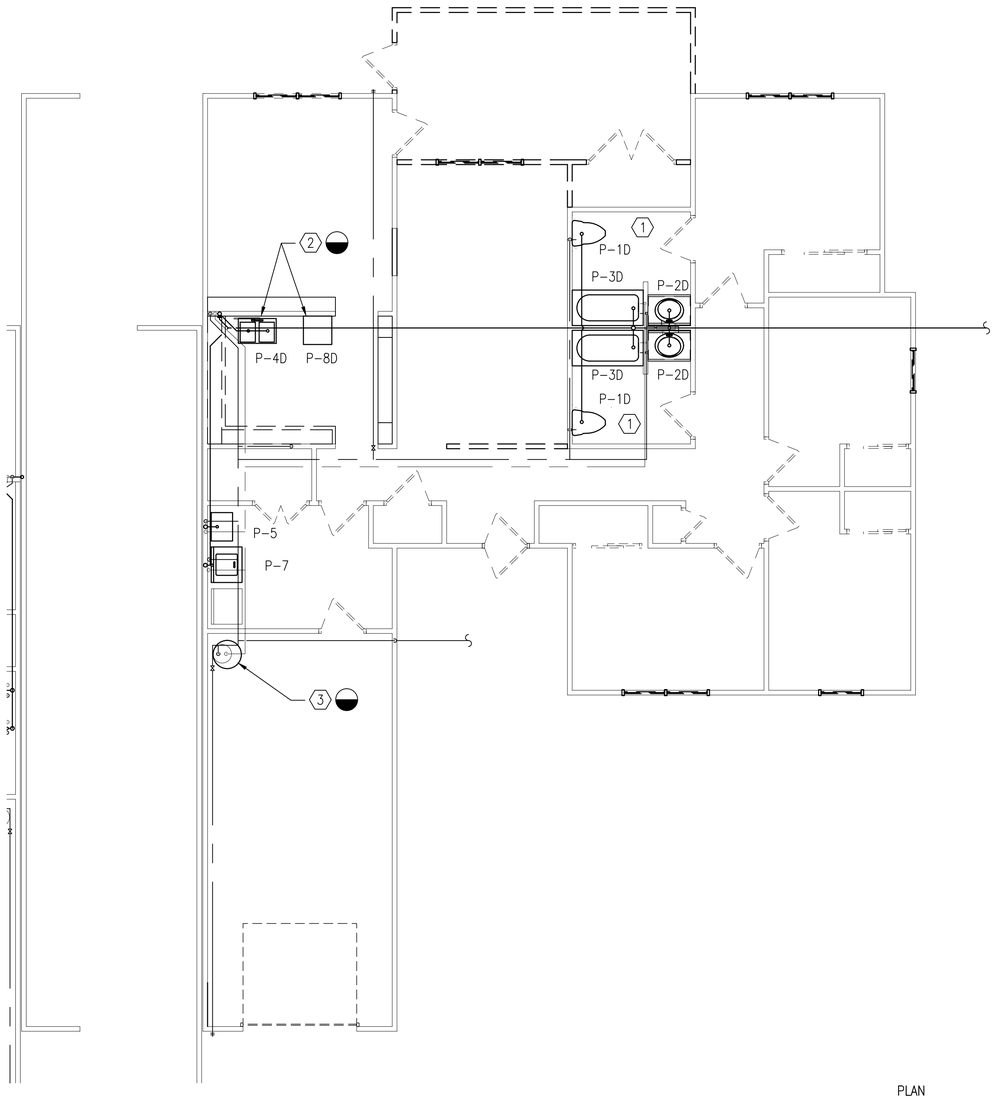
NAVFAC DRAWING NO. 12708340

SHEET 88 OF 120

PD102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-PD102.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:46pm USER: john.m.taylor1



UNIT C - PLUMBING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

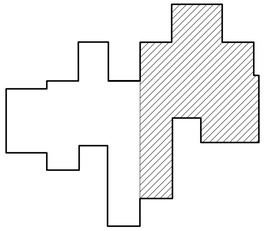
PLAN NORTH

GENERAL SHEET NOTES

1. NO DEMOLITION OF EXISTING PLUMBING PIPING IN THE KITCHEN AREA.
2. ITEMS SHOW WITHOUT A "D" DESIGNATION ARE SHOWN FOR CLARITY ONLY.

DEMOLITION KEYNOTES

1. REMOVE LAVATORY, TUB, AND TOILET BACK TO STOP COCK.
2. REMOVE KITCHEN SINK PIPING BACK TO STOP COCK. REMOVE REFRIGERATOR ICE MAKER TAP AND PIPING BACK TO CW MAIN.
3. REMOVE AND REPLACE WATER HEATER.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C PLUMBING DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

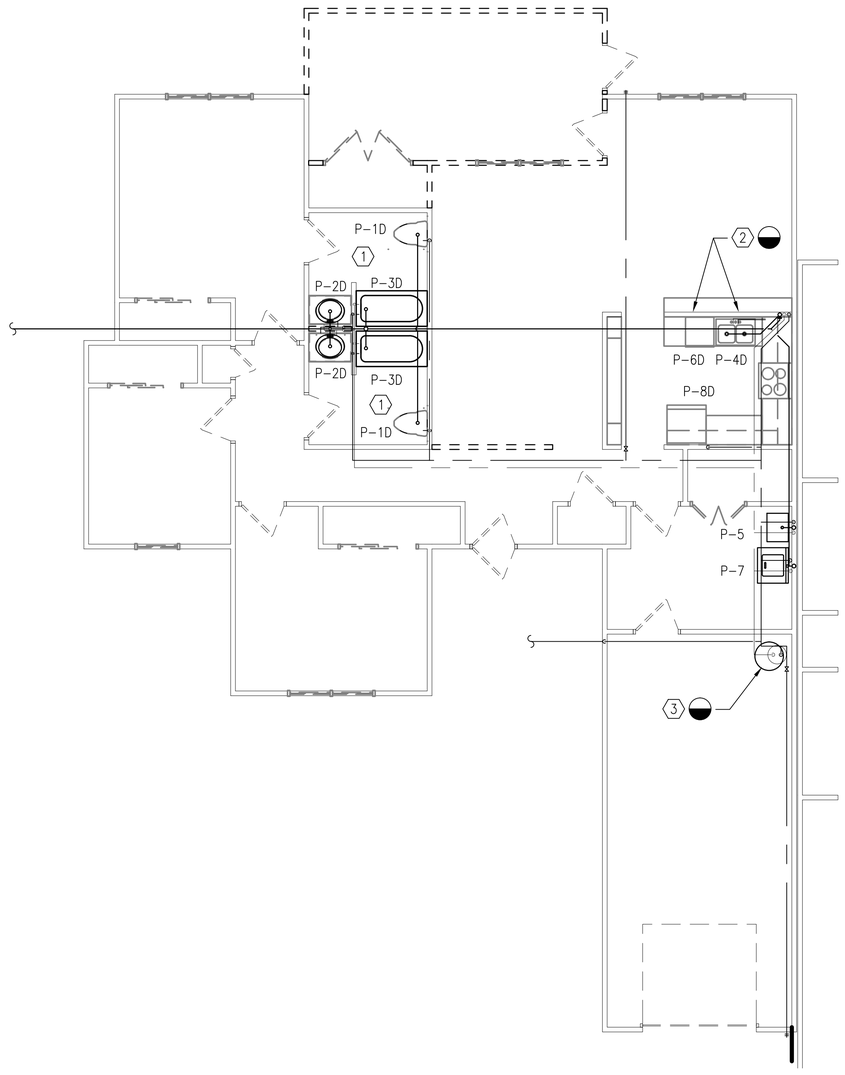
NAVFAC DRAWING NO. 12708341

SHEET 89 OF 120

PD103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-PD103.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:51pm USER: john.m.taylor1



UNIT D - PLUMBING DEMOLITION PLAN

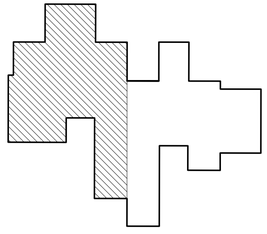
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. NO DEMOLITION OF EXISTING PLUMBING PIPING IN THE KITCHEN AREA.
2. ITEMS SHOW WITHOUT A "D" DESIGNATION ARE SHOWN FOR CLARITY ONLY.

DEMOLITION KEYNOTES

1. REMOVE LAVATORY, TUB, AND TOILET BACK TO STOP COCK.
2. REMOVE KITCHEN SINK PIPING BACK TO STOP COCK. REMOVE DISHWASHER PIPING. REMOVE REFRIGERATOR ICE MAKER TAP AND PIPING BACK TO CW MAIN.
3. REMOVE AND REPLACE WATER HEATER.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

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ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

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CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

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P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D PLUMBING DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

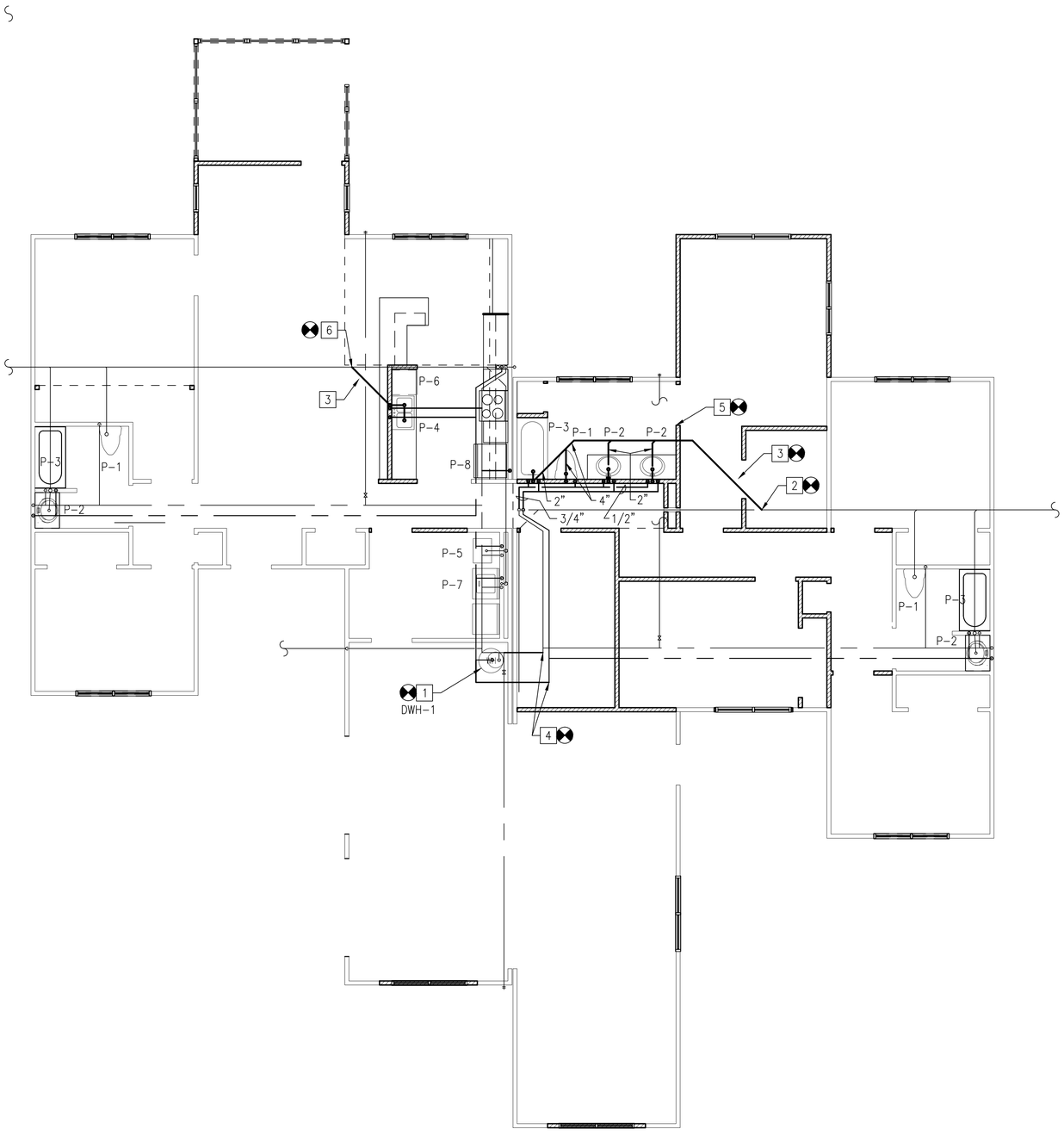
NAVFAC DRAWING NO. 12708342

SHEET 90 OF 120

PD104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-PD104.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:46pm USER: john.m.taylor1



UNIT A PLUMBING PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

GENERAL SHEET NOTES

1. REPLACE ALL EXISTING PLUMBING THAT ARE NOT BEING REMOVED WITH NEW FIXTURES.
2. FOR EXTENT OF CONCRETE PATCH WORK SEE ARCHITECTURAL SHEETS.

NEW WORK KEYNOTES

1. PROVIDE NEW DOMESTIC WATER HEATER AND ASSOCIATED PIPING AND VALVES.
2. CONNECTION OF NEW 4" SANITARY INTO EXISTING.
3. PATCH SLAB.
4. NEW ¾" CW AND DHW PIPING.
5. NEW BATHROOM GROUP. CONNECT 1 1/2" VENT PIPING FROM TUB/SHOWER AND LAVATORIES INTO 2" VENT FROM TOILET. CONNECT NEW 2" VENT PIPING FROM TOILET TO EXISTING VTR.
6. CONNECTION OF NEW 2" SANITARY FROM KITCHEN SINK TO EXISTING 4" SANITARY. PROVIDE 1 1/2" VENT AND CONNECT TO EXISTING VENT PIPING.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

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P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A PLUMBING RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

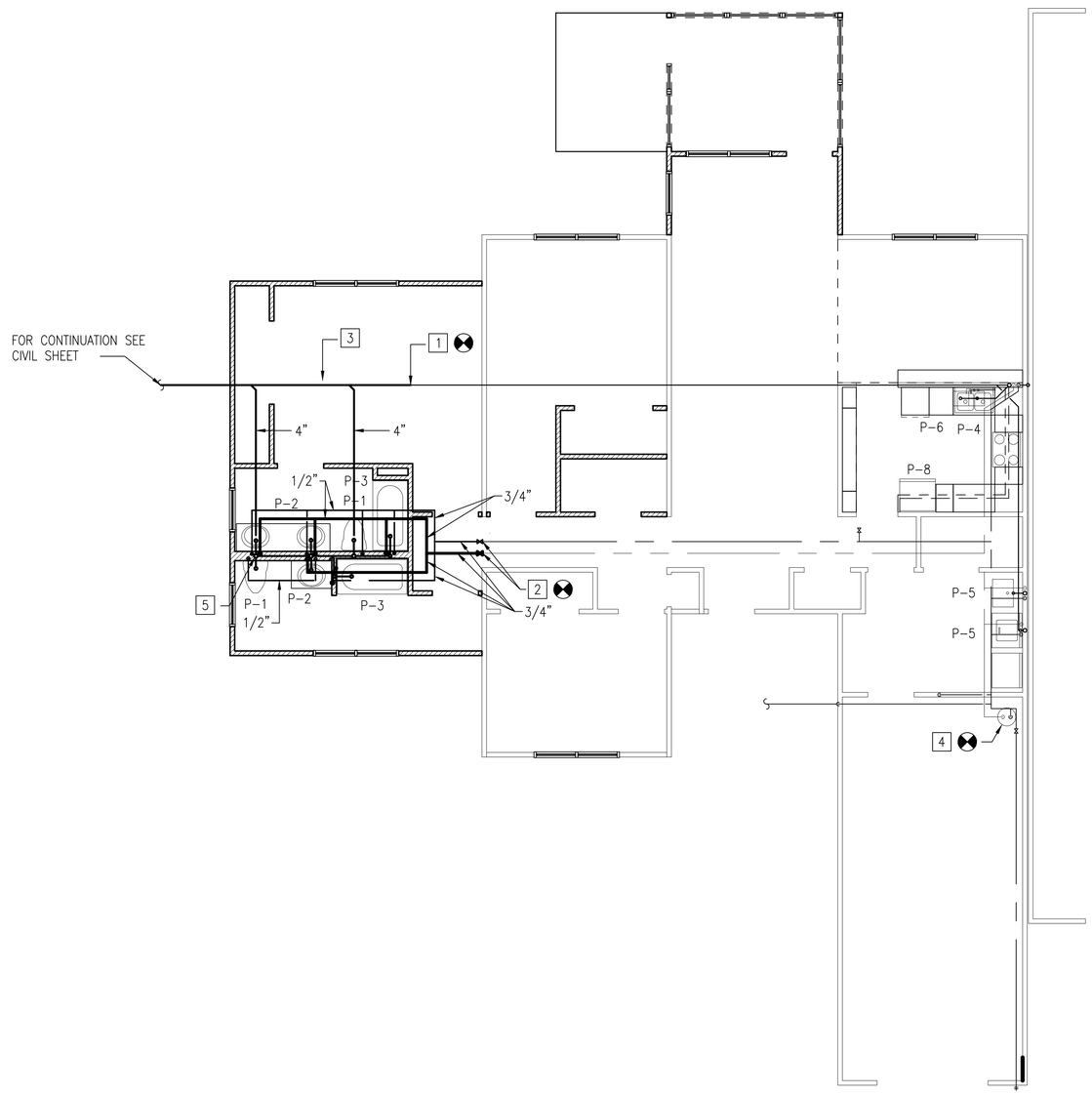
NAVFAC DRAWING NO. 12708333

SHEET 81 OF 120

P-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SketterLoneRenovation&ConversionA\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-101.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:46pm USER: john.m.taylor1



UNIT B - PLUMBING PLAN

SCALE: 3/16" = 1'-0"

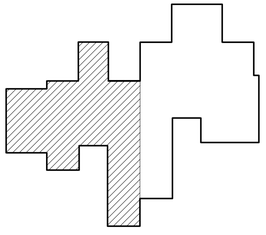
PLAN NORTH

GENERAL SHEET NOTES

1. PLUMBING WORK IN THE KITCHEN IS REPLACEMENT OF EXISTING AND CONNECTIONS OF NEW TO EXISTING PIPING.
2. PLUMBING IN ADDITION IS NEW.
3. SANITARY PIPING FROM LAVATORIES AND TUBS SHALL BE MINIMUM OF 2" UNDER SLAB.

NEW WORK KEYNOTES

1. CONNECTION OF NEW 4" SANITARY TO EXISTING SANITARY. THIS CONNECTION IS NOT UNDER THE EXISTING SLAB.
2. CONNECTION OF NEW 3/4" CW AND HW TO EXISTING. PROVIDE SHUT OFF VALVES AT CONNECTION POINT.
3. PATCH SLAB.
4. PROVIDE NEW DWH-1.
5. RUN MINIMUM 2" VENT STACK UP FROM TOILET TO TERMINATE WITH 3" VTR. CONNECT NEW 2" VENT FROM TOILET AND 1 1/2" VENTS FROM SINKS AND TUBS TIE INTO VENT STACK.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES DAV DRW DAV CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
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NAVAL FACILITIES ENGINEERING COMMAND
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WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B PLUMBING RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

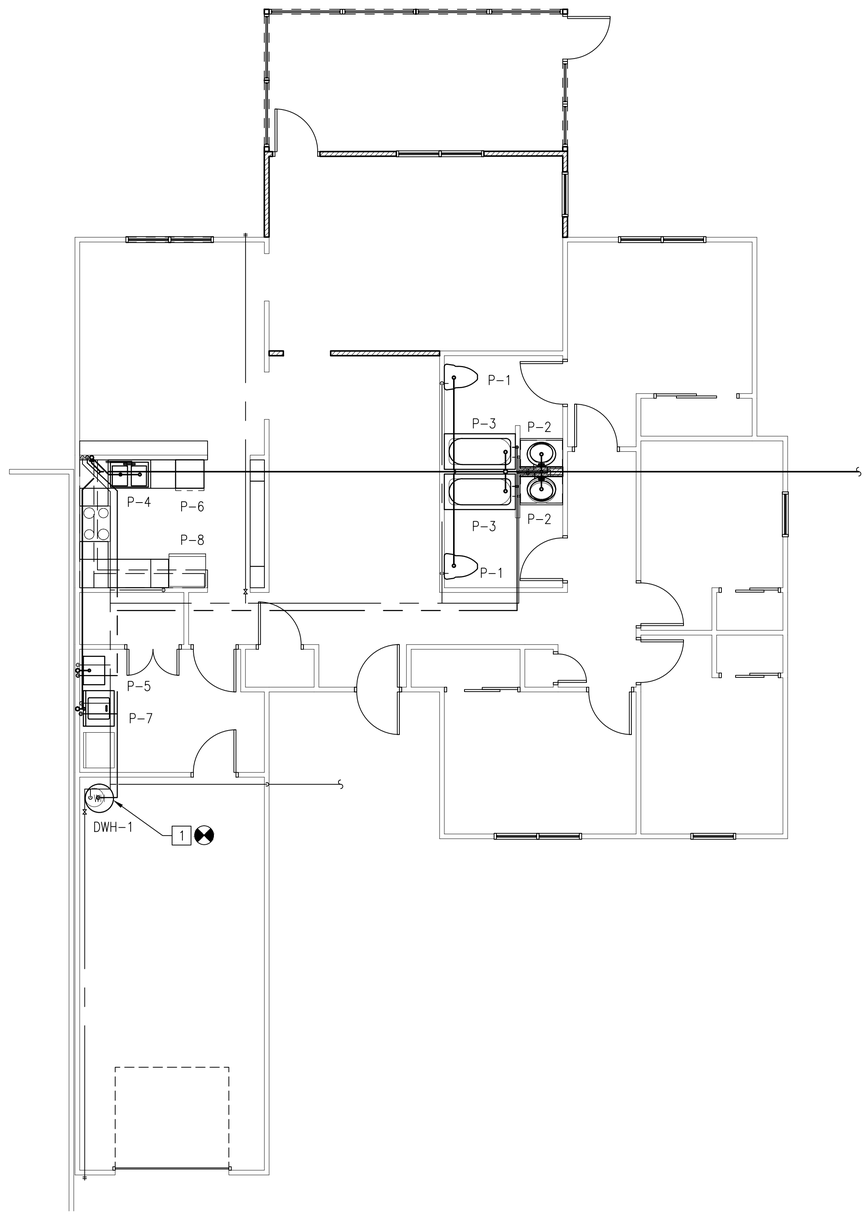
NAVFAC DRAWING NO. 12708334

SHEET 82 OF 120

P-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-102.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:46pm USER: john.m.taylor1



UNIT C - PLUMBING PLAN

SCALE: 3/16" = 1'-0"

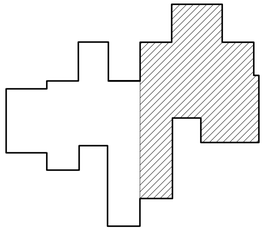
PLAN NORTH

GENERAL SHEET NOTES

1. PLUMBING WORK SHALL INCLUDE BUT IS NOT LIMITED TO INSTALLATION OF NEW PLUMBING FIXTURES AND WATER HEATER AND PIPING WORK NEEDED FOR INSTALLATION.

NEW WORK KEYNOTES

1. IF EXISTING DOMESTIC WATER HEATER HAS BEEN IN USE FOR 7 YEARS OR MORE THAN REPLACE IN KIND WITH NEW DOMESTIC WATER HEATER. PROVIDE DRAIN PAN FOR DOMESTIC WATER HEATER.
2. XXX



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

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BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

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WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C PLUMBING RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

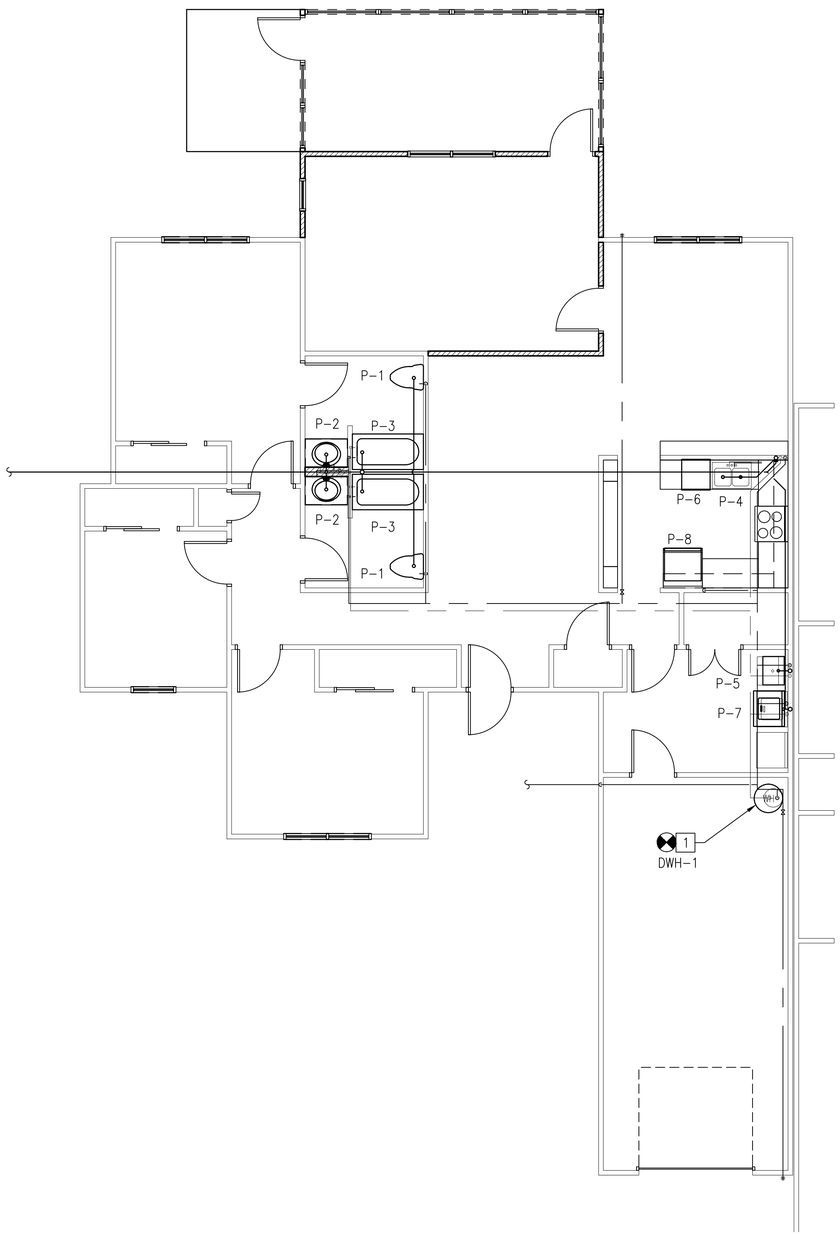
NAVFAC DRAWING NO. 12708335

SHEET 83 OF 120

P-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\LineRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-103.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:47pm USER: john.m.taylor1



UNIT D - PLUMBING PLAN

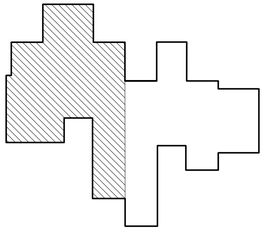
SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. PLUMBING WORK SHALL INCLUDE BUT IS NOT LIMITED TO INSTALLATION OF NEW PLUMBING FIXTURES AND WATER HEATER AND PIPING WORK NEEDED FOR INSTALLATION.

NEW WORK KEYNOTES

1. IF EXISTING DOMESTIC WATER HEATER HAS BEEN IN USE FOR 7 YEARS OR MORE THAN REPLACE IN KIND WITH NEW DOMESTIC WATER HEATER. PROVIDE DRAIN PAN FOR DOMESTIC WATER HEATER.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

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CHIEF ENG/ARCH RLW RLW

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P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D PLUMBING RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

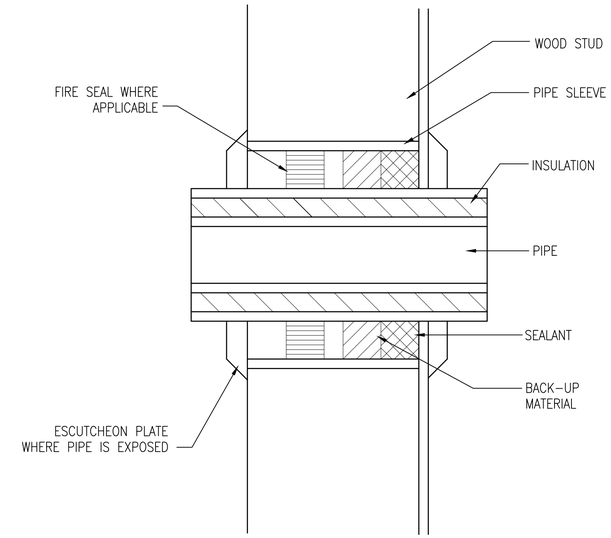
NAVFAC DRAWING NO. 12708336

SHEET 84 OF 120

P-104

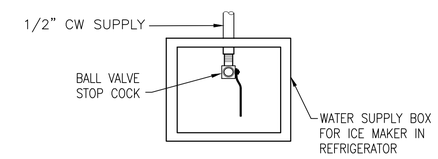
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-104.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:47pm USER: john.m.taylor1



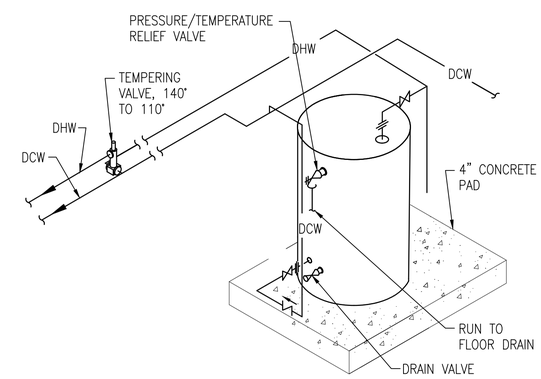
PIPE THRU WALL DETAIL

NO SCALE — P-101 — C2



REFERIGERATOR HOOK UP

NO SCALE — P-101, P-102 — B2



DOMESTIC HOT WATER DETAIL

NO SCALE — P-101,P-102 — A2

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
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WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

PLUMBING DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708337

SHEET 85 OF 120

P-501

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Skeeter Lane Renovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-501.dwg LAYOUT NAME: # ### PLOTTED: Thursday, December 03, 2015 - 12:47pm USER: john.m.taylor1

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	H.W. (in)	C.W. (in)	WASTE (in)	TRAP (in)	REMARKS
P-1	WATER CLOSET, MANUAL FLUSH	–	1	4	–	1,2
P-2	LAVATORY, FAUCET, INTEGRAL	1/2	1/2	1-1/2	1-1/2	1
P-3	TUB, SHOWER	1/2	1/2	2	2	1,4
P-4	KITCHEN SINK, GOOSNECK FAUCET, COUNTER TOP	1/2	1/2	1-1/2	1-1/2	1,3
P-5	UTILITY SINK	3/4	3/4	3	3	5
P-6	DISHWASHING UNIT	1/2	1/2	1-1/2	1-1/2	1
P-7	WASHING MACHINE	1/2	1/2	2	2	5
P-8	REFERIGERATOR ICE MAKER TAP	–	1/2	–	–	1
P-1D	WATER CLOSET, MANUAL FLUSH	–	1	4	–	6
P-2D	LAVATORY, FAUCET, INTEGRAL	1/2	1/2	1-1/2	1-1/2	6
P-3D	TUB, SHOWER	1/2	1/2	2	2	6
P-4D	KITCHEN SINK, GOOSNECK FAUCET, COUNTER TOP	1/2	1/2	1-1/2	1-1/2	6
P-5D	UTILITY SINK	3/4	3/4	3	3	6
P-6D	DISHWASHING UNIT	1/2	1/2	1-1/2	1-1/2	6
P-7D	WASHING MACHINE CONNECTION BOX	1/2	1/2	2	2	6
P-8D	REFERIGERATOR ICE MAKER TAP	–	1/2	–	–	6

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. HANDICAPPED ACCESSIBLE.
3. PROVIDE WITH GARBAGE DISPOSAL. PROVIDE WALL SWITCH FOR ON/OFF CONTROL. 120 VOLT, 60 HZ, 7.6 AMP (AVG. LOAD)
4. FOR TUB FINISH SEE SHEET I-601.
5. NOT IN CONTRACT. ITEMS SHOW FOR CLARITY ONLY.
6. ITEM TO BE DEMOLISHED.

EXPANSION TANK SCHEDULE

MARK	TANK VOL. (GALS)	TYPE	AIR CHARGE (PSIG)	CONFIGURATION	APPROX. DIMEN. (DIA.X HGT)	LOCATION	REMARKS
ET-1	2.0	BLADDER	–	VERTICAL	8-1/4"X10-3/16"	MECH. ROOM	1

NOTES:

1. PROVIDE EXPANSION TANK WITH MANUFACTURER'S RECOMMENDED AIR CHARGE.

BACKFLOW PREVENTER SCHEDULE

MARK	SERVICE	LOCATION	TYPE	SIZE	MAXIMUM PD PSI AT GPM	REMARKS
BFP-1	CW SUPPLY	MECHANICAL ROOM	–	2"	13 @ 40	1

NOTES:

1. PROVIDE A REDUCED PRESSURE ZONE ASSEMBLY.

MIXING VALVE SCHEDULE

MARK	SERVICE	"TEMPERED" WATER TEMPERATURE (°F)	MIN. FLOW (GPM)	ALLOWABLE PD PSIG AT GPM	CW	HW	REMARKS
MV-1	HW HEATER	110	1/2	15/33	3/4"	3/4"	1

NOTES:

1. MIXING VALVE SHALL COOL 140°F ENTERING HW TO 110°F LEAVING WATER.

DOMESTIC WATER HEATER SCHEDULE

MARK	TANK VOLUME (GAL), MIN.	DCW INLET TEMP (°F)	WATER STORAGE TEMP (°F)	CAPACITY (W) INPUT	TYPE	ELECTRICAL VOLTS/ PHASE/ HZ/AMPS	ENERGY FACTOR MIN.	RECOVERY RATE CAPY, MIN. (GPH)	LOCATION	REMARKS
DWH-1	50	44	140	4500	ELECTRIC	240/1/30	0.95	21 @ 90°F	MECH. ROOM	1, 2, 3

NOTES:

1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. MIXING VALVE SHALL COOL 140°F ENTERING HW TO 110°F LEAVING WATER.
3. DUAL ELEMENT FOR FAST RECOVERY. MAXIMUM WATTAGE 6000.

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JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

PLUMBING SCHEDULES

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708338

SHEET 86 OF 120

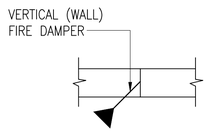
P-601

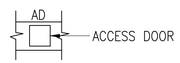
DRAWFORM REVISION: 10 MARCH 2009

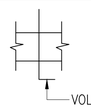
FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SheetrLineRenovation&Conversion\B_Design\Drawings\Sheet Files\12_Plumbing\P1602-1366573-P-601.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:47pm USER: john.m.taylor1

MECHANICAL LEGEND

(T)	TEMPERATURE SENSOR
[T]	THERMOSTAT
(H)	HUMIDITY SENSOR
(A) 150	AIR TERMINAL TAG WITH AIR FLOW (CFM)
12/10	RECTANGULAR DUCT DIMENSIONS (INCHES)
12"ø	ROUND DUCT DIMENSION
	FLEXIBLE ROUND DUCT
	DOWNWARD DIRECTION OF SLOPED PIPING
	SUPPLY DUCT, SUPPLY DUCT DOWN/UP
	RETURN DUCT, RETURN DUCT DOWN/UP
	THIN LINE WEIGHT INDICATES EXISTING ITEM TO REMAIN
	HEAVY LINE WEIGHT INDICATES NEW WORK TO BE PROVIDED
	HEAVY DASHED LINE WEIGHT INDICATES EXISTING ITEM TO REMOVE, REFER TO DEMOLITION NOTES.







ROOM NAME	SECTION SYMBOL
222	ROOM NUMBER
M	GAS METER
1	NEW WORK NOTE
	RADIUS ELBOW
	MITERED ELBOW WITH TURNING VANES
	DUCT CHANGE IN ELEVATION
MD	MOTORIZED DAMPER
	FLEXIBLE DUCT CONNECTOR
	RETURN GRILLE
	SUPPLY DIFFUSER
	DUCT BRANCH TAKE-OFF FITTING
	SPLASH BLOCK

DESIGN CONDITIONS

SPACE TYPE	COOLING		HEATING
	DB (°F)	WB (°F)	DB (°F)
OUTDOOR	91	76	21
INDOOR	78	65	68

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AHU	AIR HANDLING UNIT
BD	BALANCING DAMPER
BR	BASEBOARD RADIATOR
BTUH	BRITISH THERMAL UNIT PER HOUR
C	COMMON
Cv	LOSS COEFFICIENT
CU	CONDENSING UNIT
CW	CHILLED WATER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CND	CONDENSER
COP	COEFFICENT OF PERFORMANCE
CRAHU	COMPUTER ROOM AIR HANDLING UNIT
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EB	ELECTRIC BASEBOARD HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FT	FEET
FTWG	FEET OF WATER GAUGE
GPM	GALLONS PER MINUTE
HGT	HEIGHT
HP	HEAT PUMP, HORSEPOWER
HR	HOUR
HW	HOT WATER
HX	HEAT EXCHANGER
IAW	INCHES OF WATER GAUGE
IWG	IN ACCORDANCE WITH
kW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LV	LOUVER
LWT	LEAVING WATER TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MIN	MINIMUM
NC	NOISE CRITERIA, NORMALLY CLOSED
NO	NUMBER, NORMALLY OPEN
OA	OUTSIDE AIR
OAU	OUTSIDE AIR UNIT
OU	OUTDOOR UNIT
PH	PHASE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SIM	SIMILAR
SP	STATIC PRESSURE
SQ	SQUARE
TYP	TYPICAL
UH	UNIT HEATER
UOI	UNLESS OTHERWISE INDICATED
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB	WET BULB
WPD	WATER PRESSURE DROP
°	DEGREES
ø	DIAMETER

MECHANICAL SYMBOLS

◐	POINT OF DISCONNECTION
◕	POINT OF CONNECTION

GENERAL MECHANICAL NOTES

1. THESE GENERAL MECHANICAL NOTES APPLY TO THE ALL MECHANICAL DRAWINGS IN THIS SET. SHEET SPECIFIC NOTES ARE INDICATED ON EACH SHEET UNDER GENERAL SHEET NOTES.
2. PATCH ALL HOLES FROM REMOVAL OF PIPING, DUCTWORK, OR EQUIPMENT TO MATCH ADJACENT CONSTRUCTION.
3. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
4. ENTIRE INSTALLATION, INCLUDING MATERIALS, EQUIPMENT, AND WORKMANSHIP, SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE, AND FEDERAL AUTHORITIES, ALSO THE LATEST ADDITION OF THE STATE BUILDING CODES, APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK. WHERE APPLICABLE, MATERIALS AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF ARI, ASME, UL, OR ASTM. THE CONTRACTOR SHALL MAKE TESTS FOR ACCEPTANCE AND APPROVAL BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE GOVERNMENT UNLESS OTHERWISE WAIVED IN WRITING.
5. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, THIS CONTRACT'S DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
6. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.
7. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICTS THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF THE SPACE.
8. PROVIDE VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
9. PROVIDE ACCESS PANELS IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVE FIRE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT THAT REQUIRES ROUTINE MAINTENANCE. ACCESS PANELS BE LARGE ENOUGH TO ALLOW PROPER CLEARANCE FOR ACCESS DOORS.
10. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED.
11. EXISTING DUCT AND PIPING SIZES INDICATED ARE APPROXIMATE. FIELD VERIFY ALL DIMENSIONS.
12. LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. LOCATE ALL NEW HORIZONTAL DUCTWORK AND PIPING AS HIGH AS POSSIBLE AND ABOVE CEILINGS UNLESS OTHERWISE INDICATED. ALLOW FOR RISES, DROPS, AND OFFSETS AS REQUIRED.
13. SIZES GIVEN FOR DUCTWORK ON PLANS ARE INSIDE CLEAR DIMENSIONS.
14. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS UNLESS OTHERWISE NOTED. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL TURNING VANES. RADIUS ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF CURVATURE OF 1.5 TIMES DUCT WIDTH OR DIAMETER.
15. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.
16. PROVIDE ADJUSTING HANDLES FOR DUCT MOUNTED MANUAL VOLUME DAMPERS WITH RODS OF SUFFICIENT STAND-OFF LENGTH, SUCH THAT THE HANDLE DOES NOT COMPRESS THE INSULATION, OR DAMAGE THE INSULATION WHEN ADJUSTED.
17. PROVIDE PIPE SLEEVES FOR ALL PIPING PENETRATIONS THRU WALLS AND FLOORS. EACH PIPE SHALL BE SEPARATELY SLEEVED. PROVIDE CONTINUOUS SEALANT JOINT AROUND PIPE SLEEVE, BOTH SIDES OF WALL, WATERTIGHT.
18. PROVIDE P-TRAPS IN CONDENSATE DRAIN PIPING AT EACH AHU UNLESS THE AHU IS EQUIPPED WITH AN INTERNAL TRAP.
19. INSTALL THERMOSTATS AND SPACE TEMPERATURE SENSORS 60" ABOVE FINISHED FLOOR, AND MIN. 7" HORIZONTALLY FROM ADJACENT LIGHTING DIMMER SWITCHES, UNLESS OTHERWISE NOTED. COORDINATE LOCATIONS OF ALL THERMOSTATS AND SENSORS WITH ELECTRICAL AND INTERIOR DESIGN WORK.
20. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH FILTER PULL, ACCESS PANELS, OR DOORS.
21. CONDENSATE DRAIN PIPING SHALL BE PVC. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH. COMBINATION WYE AND 1/8 BENDS SHALL BE USED IN LIEU OF TEES.
22. AFTER THE PIPING IS INSULATED, PROVIDE SETON BRAND OR EQUAL FACTORY-FABRICATED PIPE LABELS, WITH DIRECTION OF FLOW ARROWS, ON THE FOLLOWING PIPING, AT 10 FOOT ON CENTER ON THE PIPING MAINS AND 5 FOOT ON CENTER ON THE BRANCH RUNOUTS FROM MAINS.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
MECHANICAL LEGEND, ABBREVIATIONS & GENERAL NOTES

SCALE: NONE

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

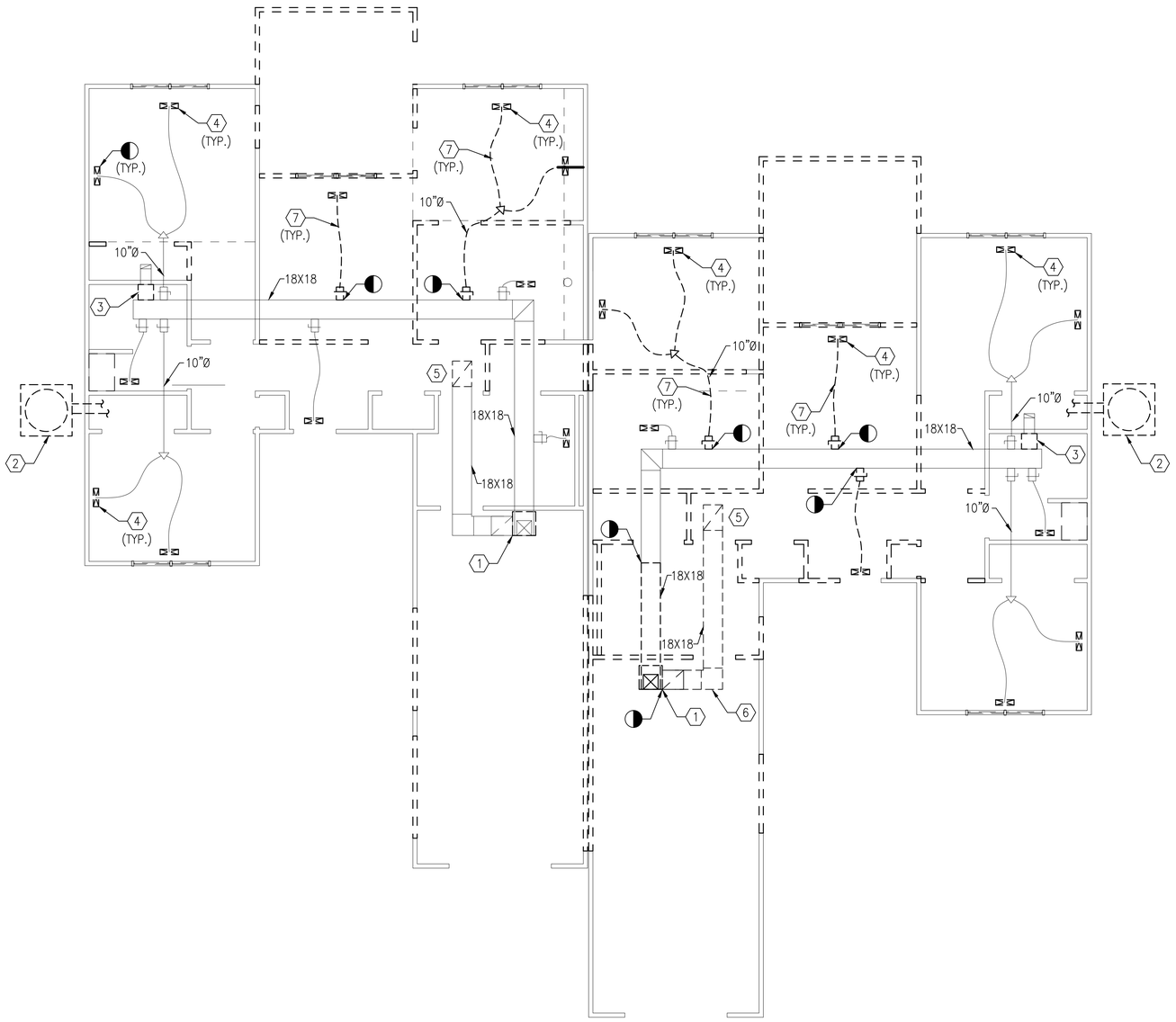
NAVFAC DRAWING NO. 12708343

SHEET 91 OF 120

M-001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DBB_SheetletLineRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-001.dwg LAYOUT NAME: M-001 PLOTTED: Thursday, December 03, 2015 - 12:56pm USER: john.m.taylor1
FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DBB_SheetletLineRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-001.dwg LAYOUT NAME: M-001 PLOTTED: Thursday, December 03, 2015 - 12:56pm USER: john.m.taylor1



UNIT A - MECHANICAL DUCTWORK DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

DEMOLITION KEYNOTES

1. REMOVE EXISTING HEAT PUMP INDOOR UNIT.
2. REMOVE EXISTING HEAT PUMP OUTDOOR UNIT AND ASSOCIATED REFRIGERANT PIPING.
3. REMOVE EXISTING EXHAUST FAN. ASSOCIATED DUCTWORK TO REMAIN.
4. REMOVE EXISTING SUPPLY DIFFUSER. ASSOCIATED DUCTWORK TO REMAIN.
5. REMOVE EXISTING RETURN GRILLE.
6. REMOVE EXISTING RETURN DUCTWORK.
7. REMOVE EXISTING SUPPLY DUCTWORK AND BRANCH TAKEOFF. REPAIR AND PATCH DUCTWORK AS NECESSARY.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO.

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A MECHANICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

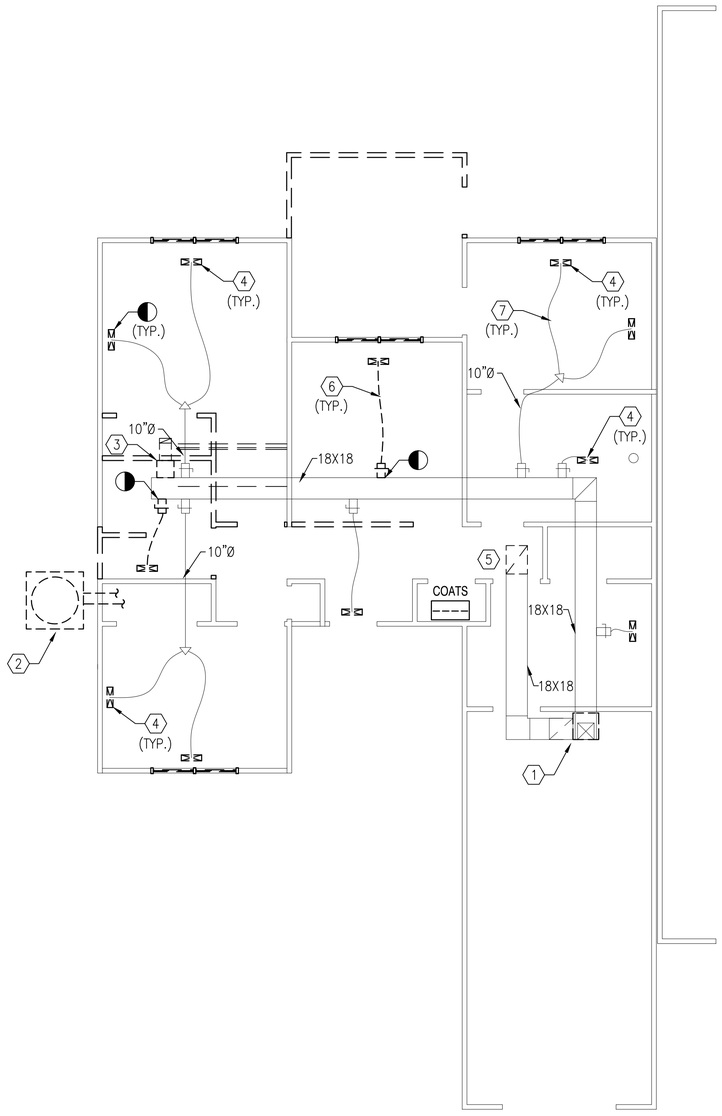
NAVFAC DRAWING NO. 12708344

SHEET 92 OF 120

MD101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovationAConversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-MD101.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:55pm USER: john.m.taylor1



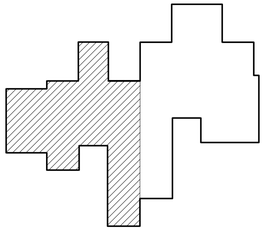
UNIT B - MECHANICAL DUCTWORK DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

DEMOLITION KEYNOTES

1. REMOVE EXISTING HEAT PUMP INDOOR UNIT.
2. REMOVE EXISTING HEAT PUMP OUTDOOR UNIT AND ASSOCIATED REFRIGERANT PIPING.
3. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. BLANK OFF ROOF CAP.
4. REMOVE EXISTING SUPPLY DIFFUSER. ASSOCIATED DUCTWORK TO REMAIN.
5. REMOVE EXISTING RETURN GRILLE.
6. REMOVE EXISTING SUPPLY DUCTWORK AND BRANCH TAKEOFF. REPAIR AND PATCH DUCTWORK AS NECESSARY.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B MECHANICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

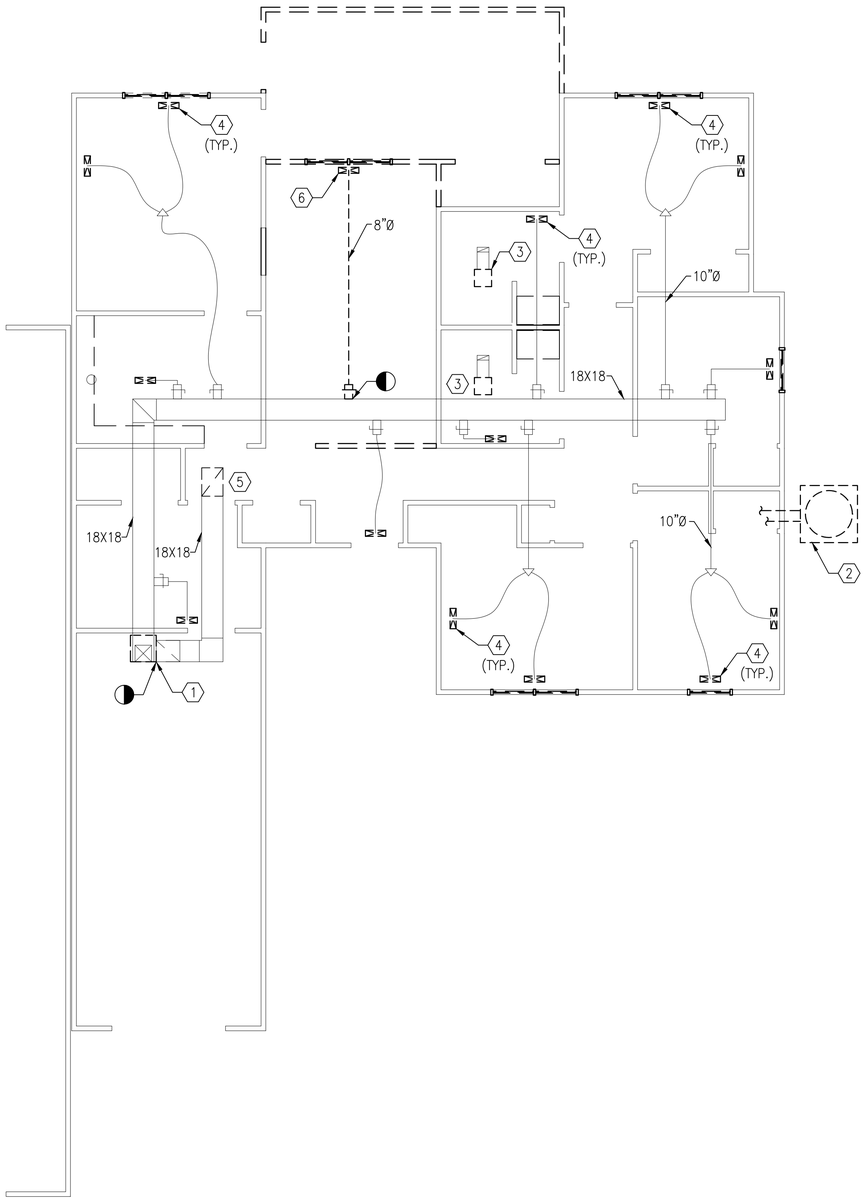
NAVFAC DRAWING NO. 12708345

SHEET 93 OF 120

MD102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_SkeetherLoreRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-MD102.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:57pm USER: john.m.taylor1



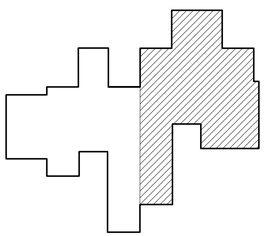
UNIT C - MECHANICAL DUCTWORK DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

DEMOLITION KEYNOTES

1. REMOVE EXISTING HEAT PUMP INDOOR UNIT.
2. REMOVE EXISTING HEAT PUMP OUTDOOR UNIT AND ASSOCIATED REFRIGERANT PIPING.
3. REMOVE EXISTING EXHAUST FAN. ASSOCIATED DUCTWORK TO REMAIN.
4. REMOVE EXISTING SUPPLY DIFFUSER. ASSOCIATED DUCTWORK TO REMAIN.
5. REMOVE EXISTING RETURN GRILLE.
6. REMOVE EXISTING SUPPLY DUCTWORK AND BRANCH TAKEOFF. REPAIR AND PATCH DUCTWORK AS NECESSARY.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C MECHANICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

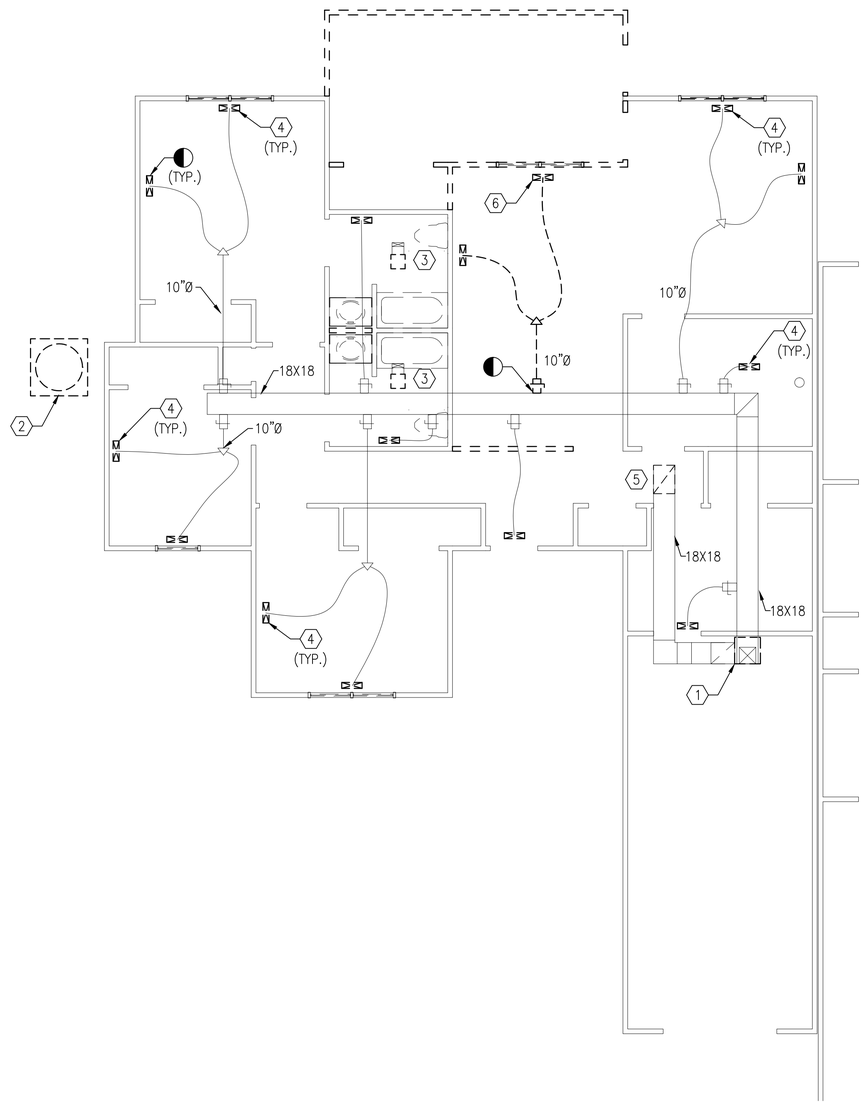
NAVFAC DRAWING NO. 12708346

SHEET 94 OF 120

MD103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DBB_SkeetterLanerRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-MD103.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:58pm USER: john.m.taylor1



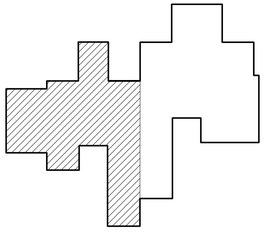
UNIT D- MECHANICAL DUCTWORK DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

DEMOLITION KEYNOTES

1. REMOVE EXISTING HEAT PUMP INDOOR UNIT.
2. REMOVE EXISTING HEAT PUMP OUTDOOR UNIT AND ASSOCIATED REFRIGERANT PIPING.
3. REMOVE EXISTING EXHAUST FAN. ASSOCIATED DUCTWORK TO REMAIN.
4. REMOVE EXISTING SUPPLY DIFFUSER. ASSOCIATED DUCTWORK TO REMAIN.
5. REMOVE EXISTING RETURN GRILLE.
6. REMOVE EXISTING SUPPLY DUCTWORK AND BRANCH TAKEOFF. REPAIR AND PATCH DUCTWORK AS NECESSARY.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D MECHANICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

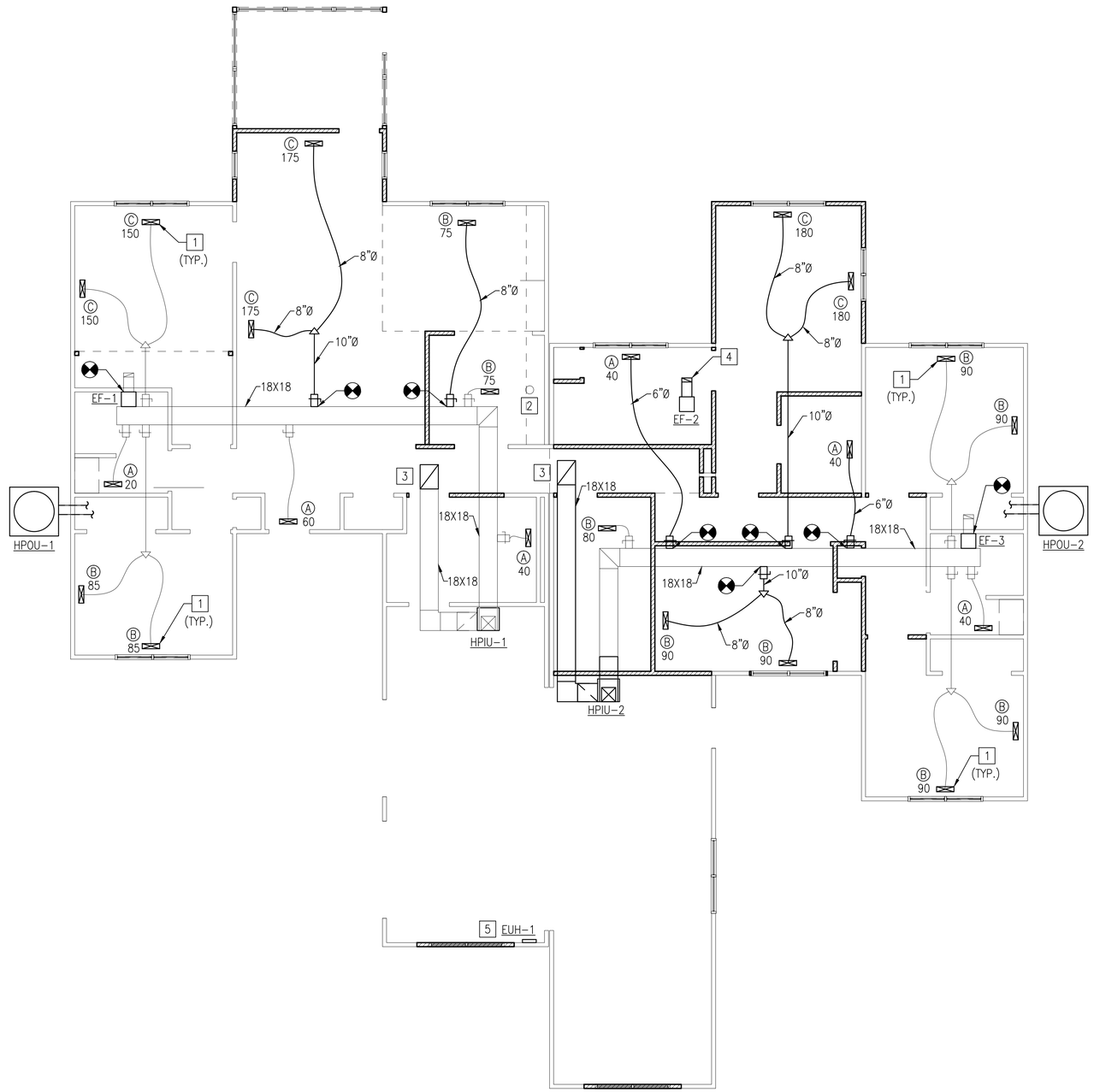
NAVFAC DRAWING NO. 12708347

SHEET 95 OF 120

MD104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-MD104.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 12:58pm USER: john.m.taylor1



UNIT A - MECHANICAL RENOVATION PLAN

SCALE: 3/16" = 1'-0"

PLAN NORTH

NEW WORK KEYNOTES

1. SUPPLY DIFFUSER. PROVIDE SURFACE READY TO ACCEPT PAINT. PAINT TO MATCH ADJACENT SURFACE.
2. EXISTING 8" ROUND EXHAUST DUCT TO ROOF CAP. PROVIDE CONNECTION TO NEW MICROWAVE EXHAUST PORT.
3. 24 X 18 RETURN GRILLE. STYLE AND COLOR TO MATCH DEMOLISHED GRILLE.
4. 10 X 4 EXHAUST DUCT UP TO ROOF CAP. COLOR/PROFILE TO BE CHOSEN BY ARCHITECT FROM MANUFACTURER'S SUBMITTAL.
5. ELECTRIC UNIT HEATER. PROVIDE WITH INTEGRAL THERMOSTAT SET TO 55 DEGREES F. LOCATE ADJACENT TO FIRE SPRINKLER RISER.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DFW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A DUCTWORK RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

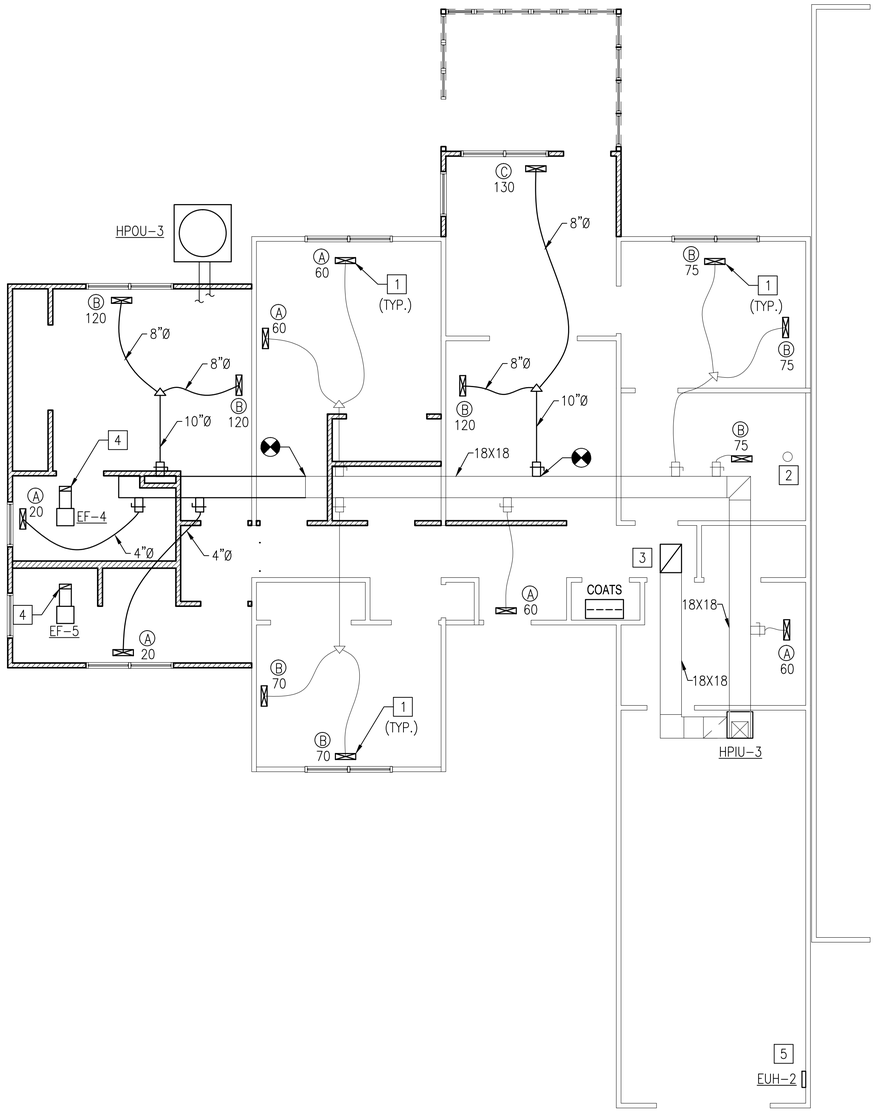
NAVFAC DRAWING NO. 12708348

SHEET 96 OF 120

M-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-101.dwg LAYOUT NAME: F-### PLOTTED: Thursday, December 03, 2015 - 1:05pm USER: john.m.taylor1

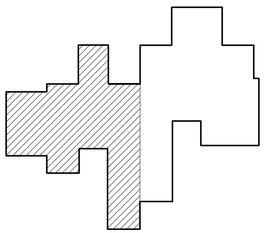


UNIT B - MECHANICAL DUCTWORK PLAN

SCALE: 3/16" = 1'-0"

NEW WORK KEYNOTES

1. SUPPLY DIFFUSER. PROVIDE SURFACE READY TO ACCEPT PAINT. PAINT TO MATCH ADJACENT SURFACE.
2. EXISTING 8" ROUND EXHAUST DUCT TO ROOF CAP. PROVIDE CONNECTION TO NEW MICROWAVE EXHAUST PORT.
3. 24 X 18 RETURN GRILLE. STYLE AND COLOR TO MATCH DEMOLISHED GRILLE.
4. 10 X 4 EXHAUST DUCT UP TO ROOF CAP. COLOR/PROFILE TO BE CHOSEN BY ARCHITECT FROM MANUFACTURER'S SUBMITTAL.
5. ELECTRIC UNIT HEATER. PROVIDE WITH INTEGRAL THERMOSTAT SET TO 55 DEGREES F. LOCATE ADJACENT TO FIRE SPRINKLER RISER.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B DUCTWORK RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

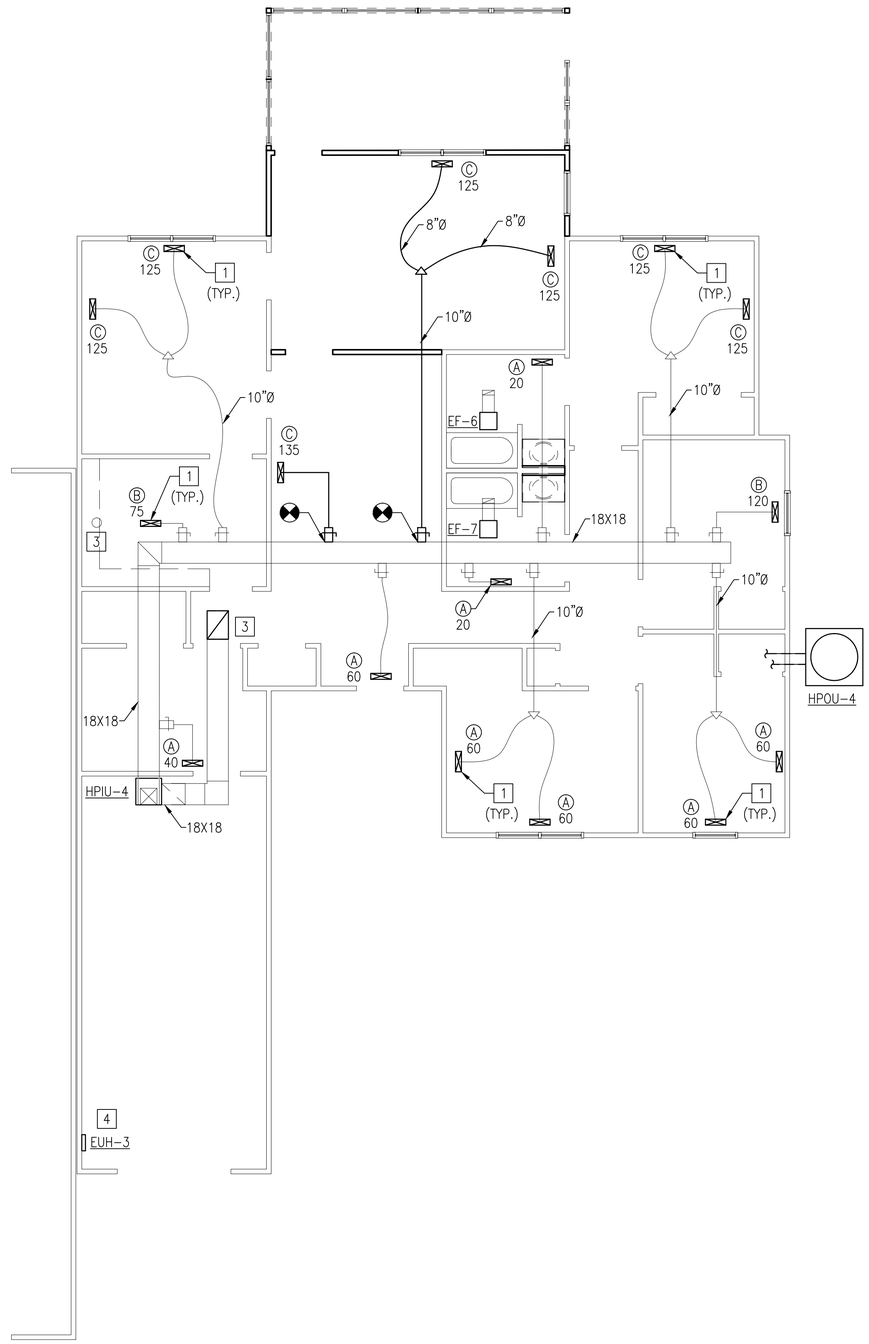
NAVFAC DRAWING NO. 12708349

SHEET 97 OF 120

M-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-102.dwg LAYOUT NAME: F-### PLOTTED: Thursday, December 03, 2015 - 1:07pm USER: john.m.taylor1

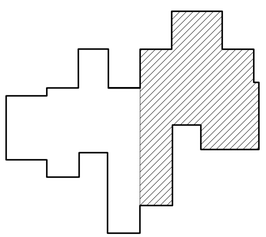


UNIT C- MECHANICAL DUCTWORK PLAN

SCALE: 3/16" = 1'-0"

NEW WORK KEYNOTES

1. SUPPLY DIFFUSER. PROVIDE SURFACE READY TO ACCEPT PAINT. PAINT TO MATCH ADJACENT SURFACE.
2. EXISTING 8" ROUND EXHAUST DUCT TO ROOF CAP. PROVIDE CONNECTION TO NEW MICROWAVE EXHAUST PORT.
3. 24 X 18 RETURN GRILLE. STYLE AND COLOR TO MATCH DEMOLISHED GRILLE.
4. ELECTRIC UNIT HEATER. PROVIDE WITH INTEGRAL THERMOSTAT SET TO 55 DEGREES F. LOCATE ADJACENT TO FIRE SPRINKLER RISER.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES JMT DRW JMT CHK TLH

JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
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NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C DUCTWORK RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

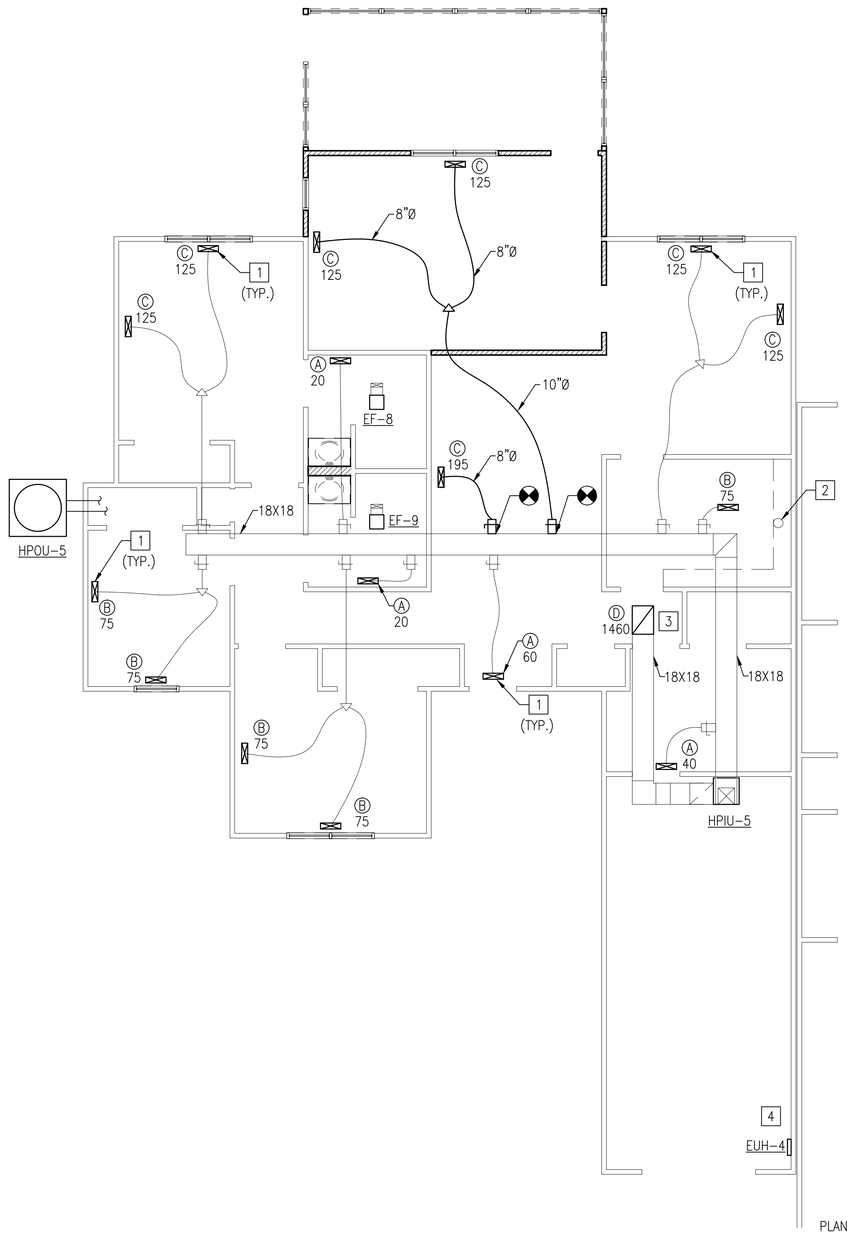
NAVFAC DRAWING NO. 12708350

SHEET 98 OF 120

M-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_SkeeterLaneRenovationNConversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-103.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 1:07pm USER: john.m.taylor1

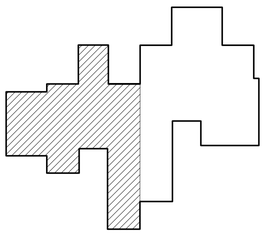


UNIT D- MECHANICAL DUCTWORK PLAN

SCALE: 3/16" = 1'-0"

NEW WORK KEYNOTES

1. SUPPLY DIFFUSER. PROVIDE SURFACE READY TO ACCEPT PAINT. PAINT TO MATCH ADJACENT SURFACE.
2. EXISTING 8" ROUND EXHAUST DUCT TO ROOF CAP. PROVIDE CONNECTION TO NEW MICROWAVE EXHAUST PORT.
3. 24 X 18 RETURN GRILLE. STYLE AND COLOR TO MATCH DEMOLISHED GRILLE.
4. ELECTRIC UNIT HEATER. PROVIDE WITH INTEGRAL THERMOSTAT SET TO 55 DEGREES F. LOCATE ADJACENT TO FIRE SPRINKLER RISER.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

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ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

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JTL/APK JTL/DAY

BRANCH MANAGER TLH

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D DUCTWORK RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

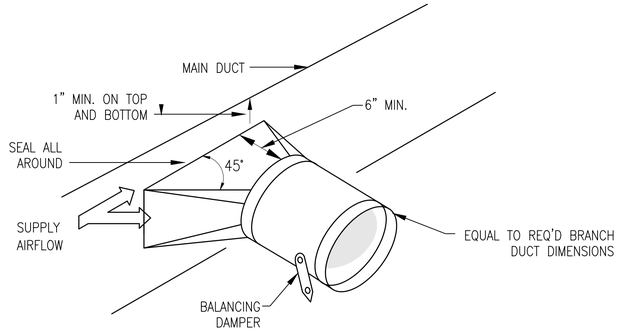
NAVFAC DRAWING NO. 12708351

SHEET 99 OF 120

M-104

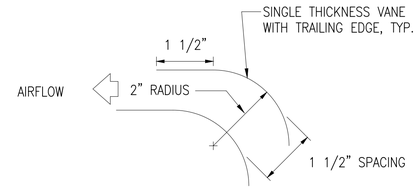
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-104.dwg LAYOUT NAME: #-### PLOTTED: Thursday, December 03, 2015 - 1:08pm USER: john.m.taylor1



LOW-PRESSURE DUCT BRANCH TAKE-OFF FITTING DETAIL (D1)

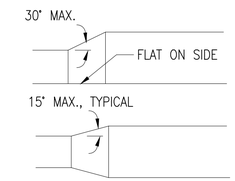
NO SCALE — M-101



NOTE: PROVIDE TURNING VANES ACROSS THE FULL WIDTH OF THE MITERED ELBOWS.

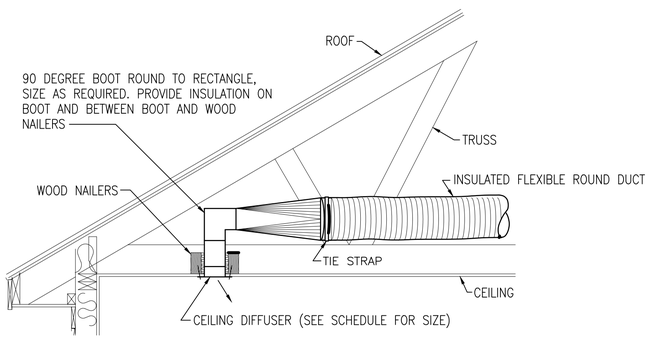
DUCT MITERED ELBOW - TURNING VANES DETAIL (D3)

NO SCALE — M-101



DUCT TRANSITIONS DETAIL (D4)

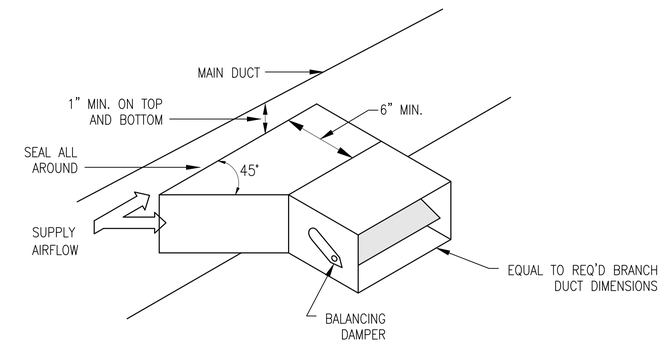
NO SCALE — M-101



NOTE:
FOR TYPICAL FLEXIBLE DUCT CONNECTIONS DOUBLE TAPE & STRAP ALL JOINTS AS FOLLOWS: TAPE INTERNAL LINER OF FLEXIBLE DUCT TO ROUND FLANGE OF 90 DEGREE BOOT, THEN TAPE EXTERNAL FLEXIBLE DUCT TO ROUND FLANGE, THEN STRAP CONNECTION TO ROUND FLANGE W/ PLASTIC TIE STRAP.

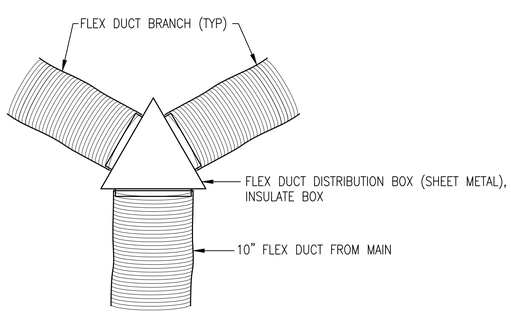
CEILING DIFFUSER DETAIL (B1)

NO SCALE — M-101



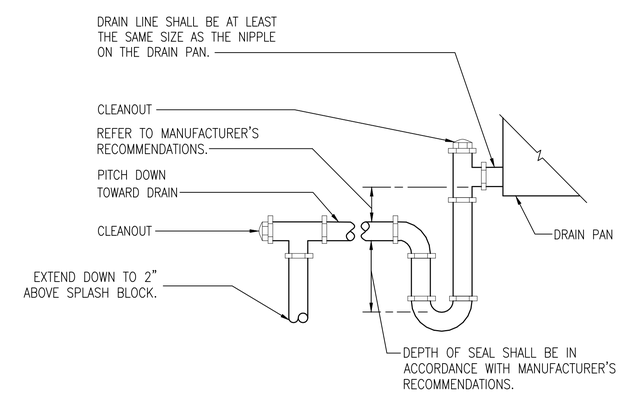
LOW-PRESSURE DUCT BRANCH TAKE-OFF FITTING DETAIL (C4)

NO SCALE — M-101



FLEX DUCT DISTRIBUTION BOX DETAIL (A1)

NO SCALE — M-101



AIR HANDLING UNIT CONDENSATE P-TRAP DETAIL (A4)

NO SCALE — M-101

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

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FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
MECHANICAL DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708352
SHEET 100 OF 120
M-501

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DBB_Sweetert.oneRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-501.dwg LAYOUT NAME: F-### PLOTTED: Thursday, December 03, 2015 - 1:08pm USER: john.m.taylor1

DX SPLIT SYSTEM AIR COOLED HEAT PUMP SCHEDULE

MARK	LOCATION	TYPE	NOMINAL AIRFLOW (CFM)	COOLING CAPACITY				HEATING CAPACITY				SPLIT SYSTEM OUTDOOR UNIT		ELECTRICAL DATA		
				NOMINAL SIZE (MBH)	ENTERING AIR (°F)		MIN SEER	NOMINAL SIZE (MBH)	ENTERING AIR (°F)	MIN HPSF	BACKUP HEAT (kW)	MARK	CAPACITY	VOLTAGE	PHASE	MCA
					DB	WB			DB							
HPIU-1	A	VERTICAL	1090	24	78	65	13	24	68	7.7	8	HPOU-1	MATCH INDOOR UNIT	240	1	14.7
HPIU-2	A	VERTICAL	1090	24	78	65	13	24	68	7.7	8	HPOU-2	MATCH INDOOR UNIT	240	1	14.7
HPIU-3	B	VERTICAL	1090	30	78	65	13	30	68	7.7	10	HPOU-3	MATCH INDOOR UNIT	240	1	17.9
HPIU-4	C	VERTICAL	1460	36	78	65	13	36	68	7.7	10	HPOU-4	MATCH INDOOR UNIT	240	1	20.4
HPIU-5	D	VERTICAL	1460	36	78	65	13	36	68	7.7	10	HPOU-5	MATCH INDOOR UNIT	240	1	20.4

NOTES:
1. PROVIDE WITH PROGRAMMABLE THERMOSTAT.
2. CONDENSING UNIT PERFORMANCE BASED ON 95°FDB OUTDOOR TEMPERATURE.
3. PROVIDE WITH COMBINATION MOTOR STARTER/DISCONNECT. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

ELECTRIC UNIT HEATER SCHEDULE

MARK	LOCATION	TYPE	AIRFLOW (CFM)	ELECTRICAL DATA		
				VOLTAGE	PHASE	kW
EUH-1-A	A	WALL MOUNT FAN FORCED	40	240	1	1
EUH-2-A	A	WALL MOUNT FAN FORCED	40	240	1	1
EUH-3-A	B	WALL MOUNT FAN FORCED	40	240	1	1
EUH-4-A	D	WALL MOUNT FAN FORCED	40	240	1	1

NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT.
2. PROVIDE WITH TAMPERPROOF THERMOSTAT.
3. PROVIDE WITH SURFACE MOUNTING KIT.

FAN SCHEDULE

MARK	TYPE	AIRFLOW (CFM)	ESP (IN WG)	RPM	SONES	DRIVE	ELECTRICAL DATA		
							HP	VOLTAGE	PHASE
EF-1	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-2	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-3	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-4	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-5	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-6	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-7	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-8	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1
EF-9	CEILING MOUNTED	75	0.3	900	1.8	DIRECT	1/12	120	1

NOTES:
1. CONTROLLED BY ROOM LIGHT SWITCH.

DUCT CONSTRUCTION AND LEAK TEST SCHEDULE

MARK	DUCT PRESSURE CLASS (IN. WG)				SUPPLY RECTANGULAR		RETURN/EXHAUST/ OUTSIDE AIR		DUCT TEST PRESSURE (IN. WG)
	SUPPLY DUCT	RETURN DUCT	EXHAUST DUCT	OA DUCT	SEAL CLASS	LEAK CLASS	SEAL CLASS	LEAK CLASS	
ALL HPIUs	1	-	-	-	A	24	-	-	1
	-	-0.5	-	-	-	-	A	24	0.5
ALL EFs	-	-	-1	-	-	-	A	24	1

NOTES:
1. TEST IN ACCORDANCE WITH HVAC TESTING/ADJUSTING/BALACING SPECIFICATIONS AND THE PROCESURES IN SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL, 1985 EDITION.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	SERVICE	CFM RANGE	MAX SP (IN WG)	NECK/COLLAR SIZE (IN)	MOUNTING/TYPE	MAX. THROW AT 50 FPM (FT)	MAX NC	NOTES
A	SUPPLY	0-65	0.02	6	SURFACE MOUNT RESIDENTIAL	6	10	1,2
B	SUPPLY	66-120	0.04	8	SURFACE MOUNT RESIDENTIAL	8	11	1,2
C	SUPPLY	121-185	0.05	8	SURFACE MOUNT RESIDENTIAL	10	14	1,2
D	RETURN	0-1460	0.01	24 X 18	SURFACE MOUNT RESIDENTIAL	-	17	2

NOTES:
1. PATTERN: 3-WAY CORE STYLE UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. ALL ALUMINUM CONSTRUCTION.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

MECHANICAL SCHEDULES

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708353

SHEET 101 OF 120

M-601

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Skeeter\preRenovation&Conversion\B_Design\Drawings\Sheet Files\13_Mechanical\P1602-1366573-M-601.dwg LAYOUT NAME: # - ### PLOTTED: Thursday, December 03, 2015 - 1:09pm USER: john.m.taylor1

INTERIOR ELECTRICAL LEGEND

- 1. — GENERAL NOTE TAG.
- (1) — DEMOLITION NOTE TAG.
- [1] — NEW WORK NOTE TAG.
- (1) — SCHEDULE OR RISER NOTE TAG.
- (A) — LIGHTING FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.
- [ ] — FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.
- ( ) — RECESSED OR SURFACE LIGHT FIXTURE AS SCHEDULED.
- H — WALL-MOUNTED LIGHTING FIXTURE AS SCHEDULED.
- COMBINATION CEILING FAN/LIGHT ASSEMBLY AS SCHEDULED.
- a — SMALL-CASE LETTER ADJACENT TO A DEVICE, SWITCH OR LIGHTING FIXTURE INDICATES SWITCHING ARRANGEMENT.
- S — TOGGLE SWITCH, SINGLE POLE, UON
- S_3 — TOGGLE SWITCH, 3 WAY, SUBSCRIPT (3), UON
- S_4 — TOGGLE SWITCH, 4 WAY, SUBSCRIPT (4), UON
- S_D — DIMMER SWITCH, SUBSCRIPT (D) DENOTES ELECTRONIIC SLIDE DIMMER (0-10V) AND (D3) INDICATES 3-WAY OPERATION, UNO.
- S_{FC} — CEILING FAN/LIGHT CONTROL STATION IN A SINGLE GANG BOX. FAN CONTROL SHALL HAVE HIGH, MEDIUM, AND LOW SPEED BUTTONS. LIGHT SHALL BE CONTROLLED WITH A DIMMER SWITCH. A "3" INDICATES THE LIGHT IN A 3-WAY CONFIGURATION.
- ELECTRICAL RESEDENTIAL LOADCENTER (120/240V).
- (J) — JUNCTION BOX.
- (E) — EQUIPMENT CONNECTION.
- (M) 5 — MOTOR CONNECTION, HP AS INDICATED.
- 3P 30/20 — DISCONNECT SWITCH. IN NEMA 3R ENCL. UON. 3P = # OF POLES, 30 = SWITCH RATING 20 = FUSE RATING (NF INDICATES NON-FUSIBLE).
- --US-- UNDERGROUND SECONDARY WIRING & CONDUIT.
- --UP-- UNDERGROUND PRIMARY WIRING IN CONDUIT.
- *-US-* UNDERGROUND SECONDARY WIRING & CONDUIT. TO BE DEMOLISHED.
- --UC-- UNDERGROUND COMMUNICATIONS.
- --USL-- UNDERGROUND STREET LIGHTING WIRING & CONDUIT.
- EXISTING AREA/STREET LIGHTING POLE WITH LUMINAIRE.
- WP GFI T — DUPLEX CONVENIENCE RECEPTACLE. 20A., 125V. MOUNT 18" AFF UON. GFI = CLASS A GROUND-FAULT CIRCUIT-INTERRUPTING TYPE. WP = WEATHERPROOF COVERPLATE. T = TAMPER-RESISTANT TYPE.
- GFI T — DUPLEX CONVENIENCE RECEPTACLE. 20A., 125V. MOUNT HORIZONTALLY 6" ABOVE COUNTER UON. GFI = CLASS A GROUND-FAULT, CIRCUIT-INTERRUPTING TYPE. T = TAMPER-RESISTANT TYPE.
- T — SWITCHED DUPLEX CONVENIENCE RECEPTACLE. 20A., 125V. MOUNT 18" AFF UON. T = TAMPER-RESISTANT TYPE.
- RANGE RECEPTACLE 250V, 50A, NEMA 6-50R.
- DRYER RECEPTACLE 250V, 30A, NEMA 6-30R.
- S_M — MOTOR RATED SWITCH OR MANUAL MOTOR STARTER WITH OVERLOADS.
- A-1 — HOMERUNS TO LOADCENTER. LOADCENTER & CIRCUIT DESIGNATIONS SHALL BE AS REQUIRED TO SUPPORT THE CIRCUIT AND ITS APPLICATION.
- GND / OR / CONDUCTORS — BRANCH CIRCUIT OR FEEDER CABLE TYPE NM UNO. CIRCUIT CONDUCTORS IN CONDUIT WILL BE IDENTIFIED. NO TICK MARKS INDICATE CABLE WITH 2#12 CONDUCTORS WITH GND. IN CONDUIT, NO TICK MARKS INDICATE 2#12 AND 1#12 GND. TICK MARKS, WHEN SHOWN FOR CABLE, INDICATE QUANTITY OF CONDUCTORS WITH GRD. FOR CONDUIT, WHEN SHOWN, TICK MARKS INDICATE QUANTITY OF SINGLE CONDUCTORS. CONDUCTORS LARGER THAN #12 AND CONDUIT LARGER THAN 1/2" SHALL BE AS INDICATED.
- REMOVE EXISTING CABLE OR BUS, TYPE AND CHARACTERISTICS AS INDICATED.
- FC — FAN/LIGHT POWER AND CONTROL CABLE CONCEALED IN WALL OR ATTIC. PROVIDE CONDUCTORS PER MANUFACTURER'S WRITTEN INSTRUCTIONS FOR THE TYPE SUPPLIED.
- DB — DOOR BELL LOW-VOLTAGE CONTROL AND POWER WIRING CONCEALED IN WALL OR ATTIC. PROVIDE CABLE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- FA — RESIDENTIAL 120V SINGLE-STATION SMOKE DETECTOR POWER AND CONTROL CABLE CONCEALED IN ATTIC. PROVIDE CABLE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- (S) — CEILING MOUNTED RESIDENTIAL SINGLE-STATION SMOKE DETECTOR, 120V.
- TV — CATV OUTLET. MOUNT 18" AFF UNO.
- SPD — RESIDENTIAL SURGE PROTECTION DEVICE.
- △ — TELEPHONE OUTLET. MOUNT 18" AFF UNO.
- △W — WALL MOUNTED TELEPHONE OUTLET. MOUNT 48" AFF UNO.
- B — RESIDENTIAL DOOR CHIME PUSHBUTTON.
- C — RESIDENTIAL DOOR CHIME. MOUNT 76" AFF TO BOTTOM UNO. PROVIDE TRANSFORMER, WIRING AND ACCESSORIES FOR A COMPLETE SYSTEM.
- TVB — EXISTING CABLE TV NETWORK INTERFACE BOX.
- TI — EXISTING TELEPHONE NETWORK INTERFACE BOX.
- (M) — EXISTING ELECTRICAL METER.
- MH — EXISTING MANHOLE.
- EXISTING TELECOMMUNICATIONS PEDESTAL.
- FRONT — EXISTING PAD MOUNTED TRANSFORMER.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO CONSTRUCTION TO ASCERTAIN THE EXISTING CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. REMOVE ALL EQUIPMENT, DEVICES, AND FIXTURES INDICATED ON THE DEMOLITION PLANS ALONG WITH ITS ASSOCIATED CIRCUITRY BACK TO THE PROTECTIVE DEVICE IN THE PANEL, EXCEPT AS OTHERWISE INDICATED:
   a. ASSOCIATED CIRCUITRY SHALL BE DEFINED TO INCLUDE ALL RACEWAYS, CONDUCTORS, CABLES, BOXES, WIRING DEVICE, COVERPLATES, LAMPS, FIXTURES, SWITCHES, STARTERS, ETC. WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
   b. THE PROTECTIVE DEVICE SHALL REMAIN AS AN INTEGRAL PART OF THE EXISTING PANEL, UNLESS NOTED OTHERWISE. LABEL AS SPARE OR USE FOR NEW CIRCUIT AS INDICATED.
   c. WHERE EQUIPMENT, CONDUIT OR CABLE HAS BEEN REMOVED FROM EXISTING SURFACES, REPAIR HOLES LEFT BY MOUNTING HARDWARE. PATCH, PAINT, AND FINISH WALLS, FLOORS AND CEILINGS TO MATCH THE EXISTING ADJACENT SURFACES.
3. WHERE A PORTION OF A CIRCUIT'S LOAD IS SCHEDULED TO BE REMOVED AND RELOCATED, ANY ASSOCIATED CIRCUITRY, SWITCHES, DEVICES, ETC. SHALL ALSO BE REMOVED WITH THE EQUIPMENT TO THE NEW LOCATION. PROVIDE CONNECTION TO ALL ASSOCIATED ITEMS TO NEW OR EXTENDED CIRCUITRY AS INDICATED.
4. WHERE EXTENSION OF AN EXISTING CIRCUIT IS REQUIRED, RUN NEW CONDUIT OR CABLE CONCEALED WHERE POSSIBLE FROM THE CIRCUIT'S EXISTING LOCATION TO ITS NEW LOCATION.
5. PROVIDE NEW TYPED CIRCUIT DIRECTORY PROTECTED BY PLASTIC AND PLACED INSIDE THE COVER OF ALL PANELS AFFECTED BY THIS ALTERATION THAT IS CONSISTENT WITH THE COMPLETED CONSTRUCTION.
6. ANY ELECTRICAL POWER OUTAGES REQUIRED BY THE WORK SHALL BE COORDINATED WITH THE CONTRACTING OFFICER AND CONFIRMED IN WRITING.

GENERAL NOTES

1. ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED AND LABELED. ALL FEEDERS/CIRCUITS SHALL BE IDENTIFIED AT EACH END OF THE WIRE AND AT EVERY SPLICE OR JUNCTION/PULL BOX.
2. DRAWINGS ARE BASED ON EXISTING BUILDING PLANS AND FIELD INVESTIGATIONS. CONTRACTOR SHALL VISIT THE EXISTING BUILDING AND ACQUAINT HIMSELF/HERSELF WITH THE EXISTING FIELD CONDITIONS. CONTRACTOR SHALL EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.
3. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES IN FIELD PRIOR TO BEGINNING ANY ROUGH-IN WORK. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
4. SHARED NEUTRAL CONDUCTORS ARE NOT ALLOWED.
5. COORDINATE ELECTRICAL DEVICE WALL BOX DEPTHS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-INS.
6. COORDINATE DISCONNECT SWITCHES, STARTERS AND CONTROL RELAYS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. THESE DEVICES MAY BE SHOWN FOR PACKAGED UNIT EQUIPMENT ON THE ELECTRICAL DRAWINGS, BUT MAY BE SUPPLIED WITH THE EQUIPMENT BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL INSTALL THESE DEVICES AND TERMINATE THEIR CIRCUIT CONDUCTORS THROUGH THEM TO THE EQUIPMENT THEY CONTROL/PROTECT.
7. EXTEND A NEUTRAL CONDUCTOR TO ALL NEW AND EXISTING SWITCH BOXES CONTROLLING LIGHTING LOADS OF HABITABLE ROOMS IN ACCORDANCE WITH NEC ARTICLE 404.2(C).

ABBREVIATIONS

2/C	TWO CONDUCTOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARCI	ARC-FAULT CIRCUIT INTERRUPTER
BFC	BELOW FINISHED CEILING
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TV (CABLE TV)
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CNTL	CONTROL
CNTR	CONTACTOR
CONT.	CONTINUED
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EUH	ELECTRIC UNIT HEATER
EXIST	EXISTING
EXT	EXTERIOR
FCU	FAN COIL UNIT
FT	FEET
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFE	GOVERNMENT FURNISHED EQUIPMENT
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HGT	HEIGHT
HH	HANDHOLE
HPIU	HEAT PUMP INSIDE UNIT
HPOU	HEAT PUMP OUTSIDE UNIT
LED	LIGHT-EMITTING DIODE
LTS	LIGHTS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	MANHOLE
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PNL	PANEL
PNLBD	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT
QU	QUANTITY
REC	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
SHT	SHEET
T	TELEPHONE
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
W	WIRE
WP	WEATHERPROOF
WW	WIREWAY (TROUGH)

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS | DRW CTS | CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
LEGENDS, NOTES, AND ABBREVIATIONS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

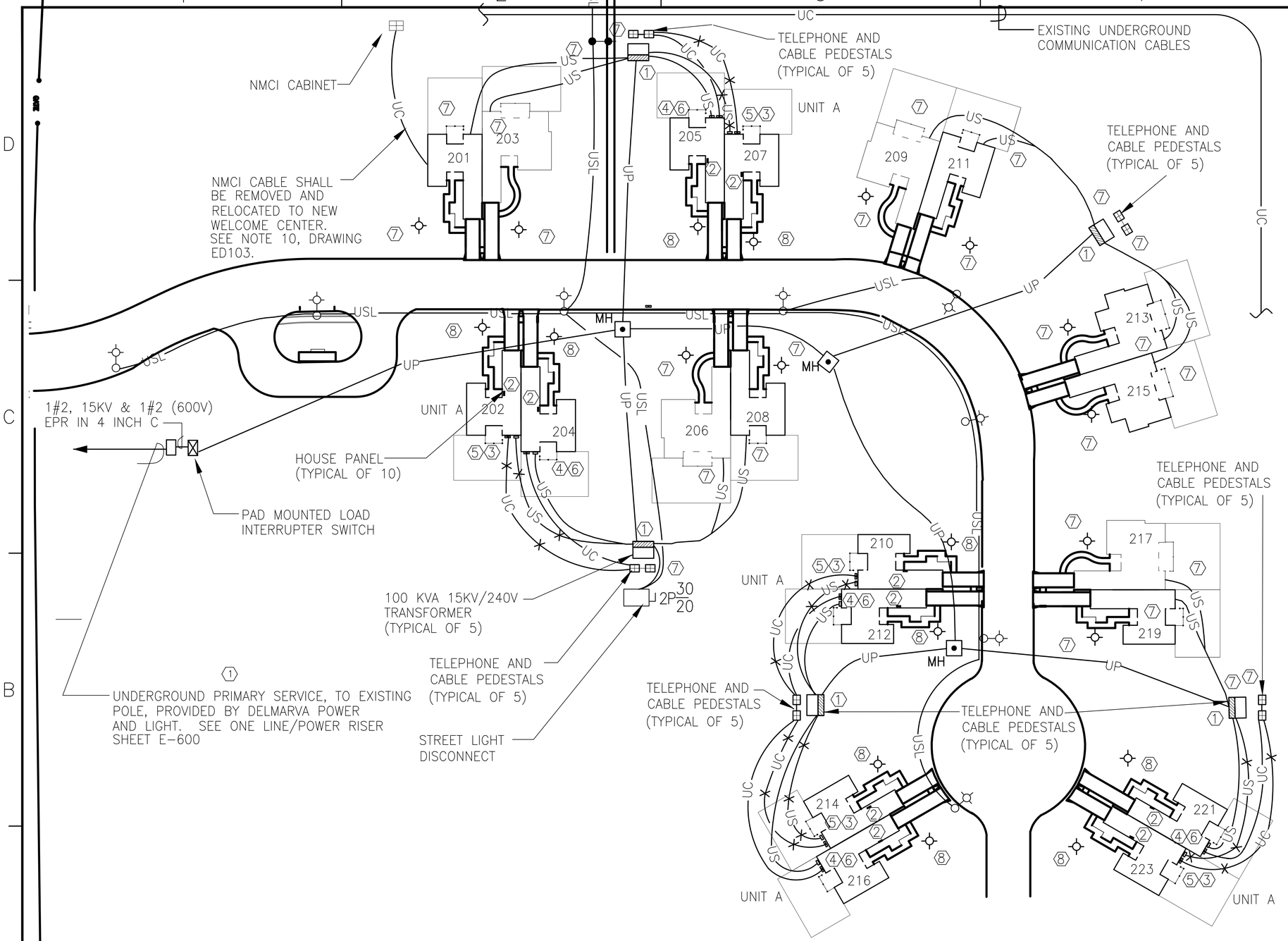
NAVFAC DRAWING NO. 12708354

SHEET 102 OF 120

E-001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SkeetersLanerRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-001.dwg LAYOUT NAME: E-001 PLOTTED: Wednesday, December 02, 2015 - 8:22am USER: charles.shaeffer



ELECTRICAL SITE DEMOLITION PLAN

SCALE: 1" = 40'

GENERAL SHEET NOTES

1. ALL WORK INDICATED IS NEW WORK UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. ALL ITEMS INDICATED SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE GOVERNMENT.

DEMOLITION NOTES

1. COORDINATE WITH DELMARVA POWER AND LIGHT FOR DISCONNECTION OF SERVICE TO A UNITs.
2. REMOVE 200 AMP 240 PANEL BOARDS IN BOTH SIDES OF A UNITS.
3. REMOVE ONE SERVICE ENTRANCE.
4. REPLACE 200 AMP 2 POLE BREAKER IN THE OTHER SERVICE ENTRANCE WITH NEW 225 AMPERE 2 POLE BREAKER.
5. REMOVE ONE TELEPHONE AND ONE CABLE ENTRANCE.
6. LEAVE THE OTHER TELEPHONE AND CABLE ENTRANCE TO FEED NEW COMBINED A UNITS.
7. EXISTING TO REMAIN.
8. REMOVE AND REPLACE LIGHT POST AS NEEDED FOR DRIVEWAY RELOCATION.

GRAPHIC SCALE

1" = 40' 0 40' 80'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRW WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

ELECTRICAL SITE DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

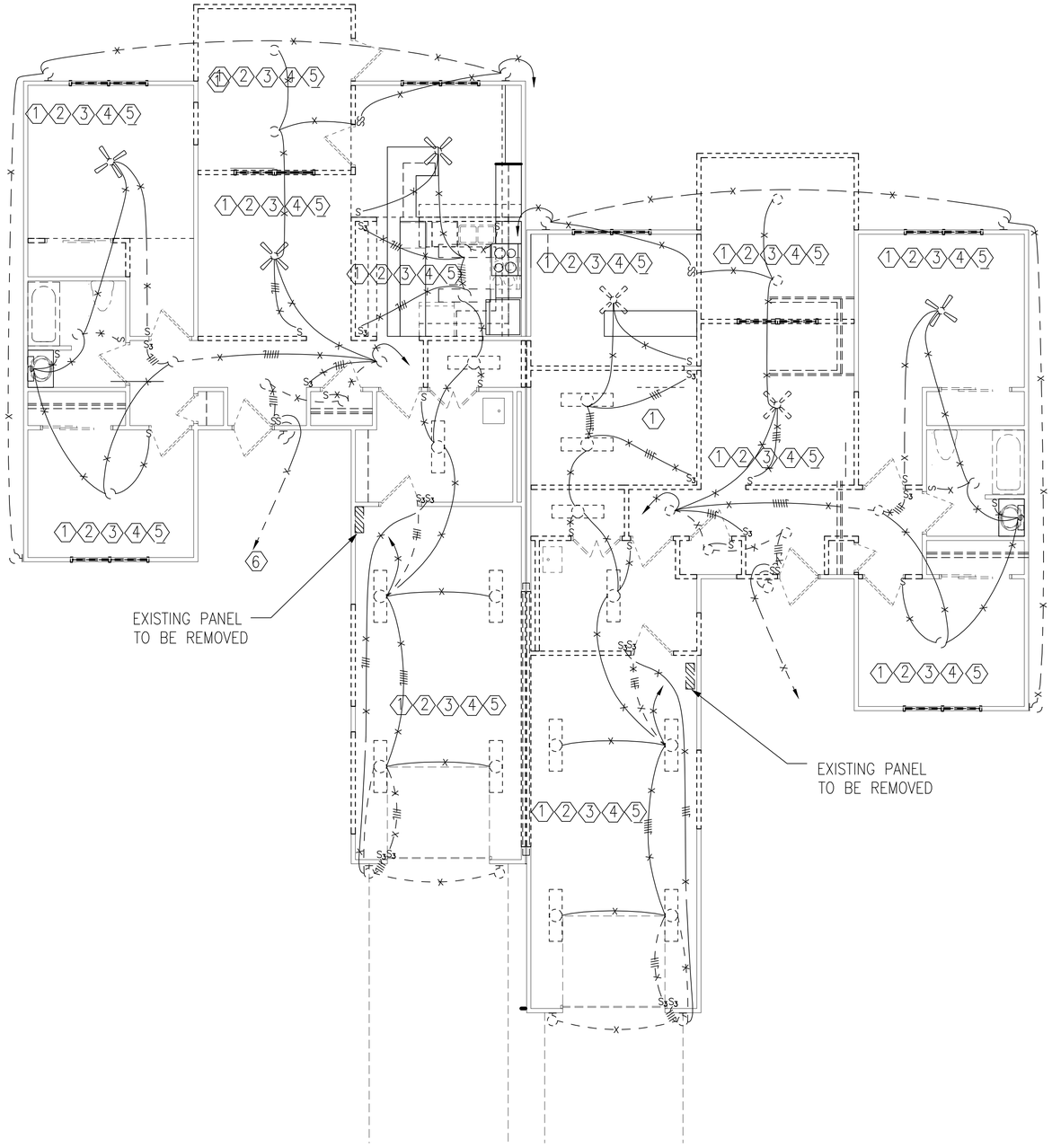
NAVFAC DRAWING NO. 12708355

SHEET 103 OF 120

ED001

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\1366573-ED001.dwg LAYOUT NAME: ED001 PLOTTED: Thursday, December 03, 2015 - 4:00pm USER: william.e.denny



UNIT A LIGHTING DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL WORK INDICATED IS NEW WORK UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. ALL ITEMS INDICATED SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE GOVERNMENT.

DEMOLITION KEYNOTES

1. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND ASSOCIATED WIRING/OUTLETS IN THIS SPACE UNO.
2. REMOVE ALL WIRING DEVICES, SINGLE STATION DETECTORS, TELEPHONE, CATV OUTLETS, AND THEIR ASSOCIATED WIRING IN THIS SPACE UNO.
3. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND INDICATED WIRING IN THIS SPACE UNO. OUTLETS AND WIRING MAY REAMIN FOR REUSE IF FEASIBLE.
4. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, TELEPHONE OUTLETS, CATV OUTLETS, DOOR BELL EQUIPMENT, AND THEIR ASSOCIATED WIRING BACK TO THE NEAREST DEVICE/JUNCTION BOX TO REMAIN WHERE SHOWN ON WALLS TO BE REMOVED.
5. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, AND ANY OTHER DEVICE THAT IS LOCATED ON A WALL TO REMAIN, UNO. OUTLET BOXES AND EXISTING WIRING MAY BE REUSED WHERE FEASIBLE.
6. REMOVE PEDESTRIAN POST-TOP LUMINAIRE FOR REPLACEMENT. POLE AND WIRING SHALL REMAIN IF DRIVE WAY RELOCATION DOES NOT WARRANT POST RELOCATION.
7. REFER TO DRAWING E-601 FOR EXISTING PANEL SCHEDULES.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRW WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
LIGHTING DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

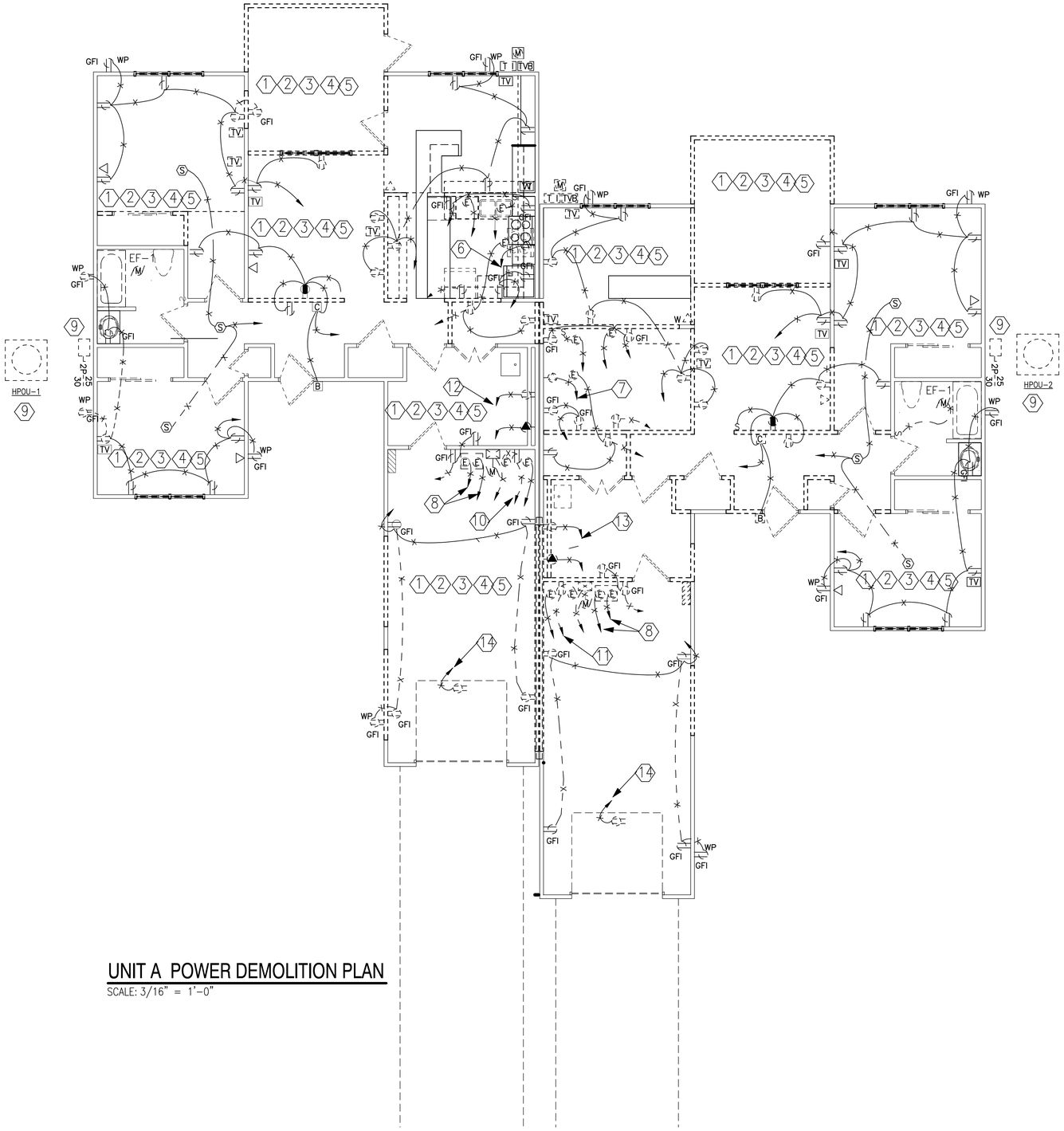
NAVFAC DRAWING NO. 12708356

SHEET 104 OF 120

ED101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-ED101.dwg LAYOUT NAME: ED101 PLOTTED: Wednesday, December 02, 2015 - 9:10pm USER: william.e.denny



UNIT A POWER DEMOLITION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. ALL WORK INDICATED IS NEW WORK UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. ALL ITEMS INDICATED SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE GOVERNMENT.

DEMOLITION KEYNOTES

1. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND ASSOCIATED WIRING/OUTLETS IN THIS SPACE UNO.
2. REMOVE ALL WIRING DEVICES, SINGLE STATION DETECTORS, TELEPHONE, CATV OUTLETS, AND THEIR ASSOCIATED WIRING IN THIS SPACE UNO.
3. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND INDICATED WIRING IN THIS SPACE UNO. OUTLETS AND WIRING MAY REMAIN FOR REUSE IF FEASIBLE.
4. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, TELEPHONE OUTLETS, CATV OUTLETS, DOOR BELL EQUIPMENT, AND THEIR ASSOCIATED WIRING BACK TO THE NEAREST DEVICE/JUNCTION BOX TO REMAIN WHERE SHOWN ON WALLS TO BE REMOVED.
5. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, AND ANY OTHER DEVICE THAT IS LOCATED ON A WALL TO REMAIN, UNO. OUTLET BOXES AND EXISTING WIRING MAY BE REUSED WHERE FEASIBLE.
6. USE EXISTING RANGE WIRING FOR NEW KITCHEN.
7. REMOVE EXISTING RANGE WIRING FOR KITCHEN TO BE DEMOLISHED.
8. USE EXISTING CIRCUITS FOR INDOOR HVAC UNITS.
9. USE EXISTING CIRCUITS FOR HVAC OUTDOOR UNITS.
10. USE EXISTING CIRCUIT FOR NEW WATER HEATER.
11. DEMOLISH WATER HEATER CIRCUIT NO LONGER NEEDED.
12. USE EXISTING FEED FOR NEW CLOTHES DRYER.
13. DEMOLISH CLOTHES DRYER CIRCUIT NO LONGER NEEDED.
14. DEMOLISH EXISTING GARAGE DOOR CIRCUIT.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE: MM/DD/YY

DES: WED DRW: WED CHK: KDL

JTL/APK: JTL/DAY

BRANCH MANAGER: KDL

CHIEF ENG/ARCH: RLW RLW

FIRE PROTECTION: DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
POWER DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

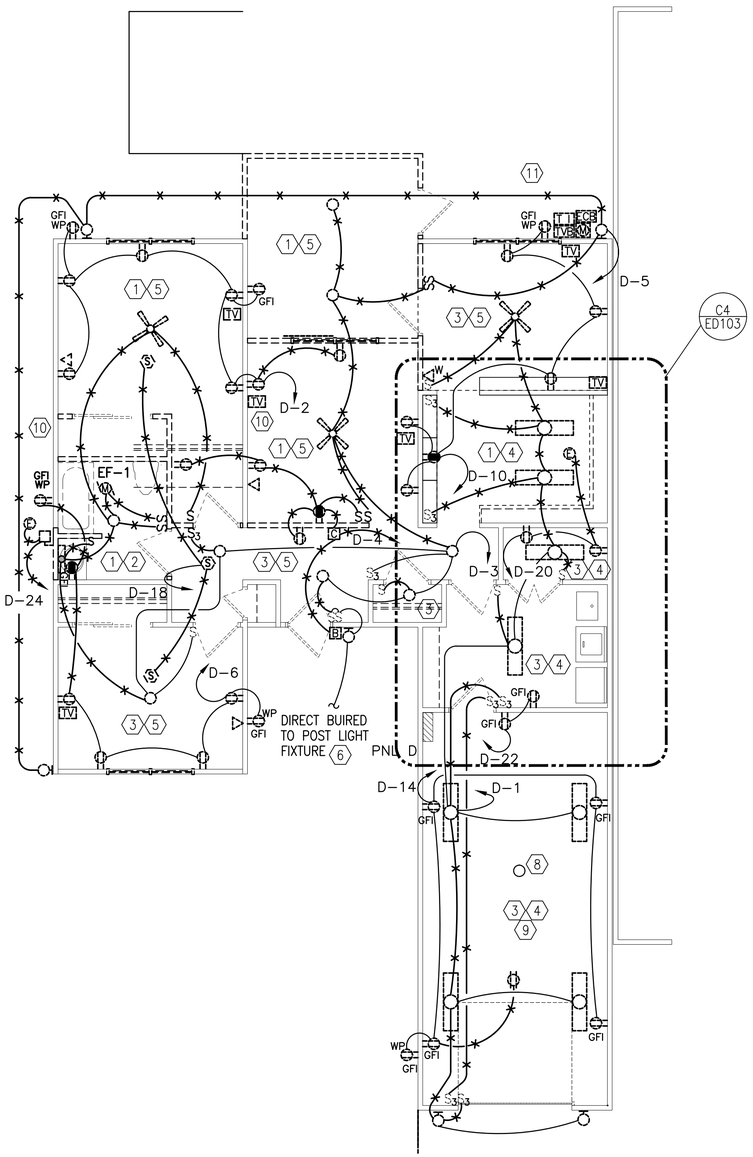
NAVFAC DRAWING NO. 12708357

SHEET 105 OF 120

ED102

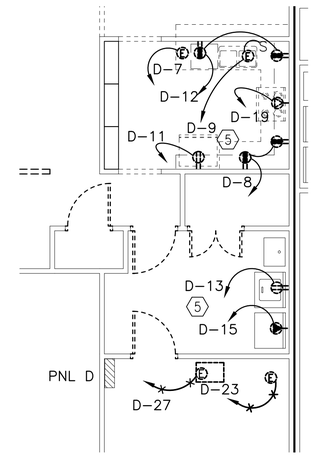
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-ED102.dwg LAYOUT NAME: ED102 PLOTTED: Wednesday, December 02, 2015 - 9:12pm USER: william.e.denny



UNIT B ELECTRICAL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



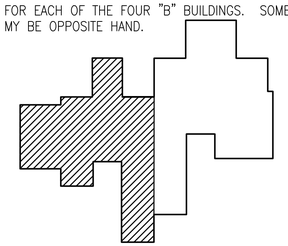
C4 UNIT B KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0" ED103

DEMOLITION KEYNOTES

1. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND ASSOCIATED WIRING/OUTLETS IN THIS SPACE UNO.
2. REMOVE ALL WIRING DEVICES, SINGLE STATION DETECTORS, TELEPHONE, CATV OUTLETS, AND THEIR ASSOCIATED WIRING IN THIS SPACE UNO.
3. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND INDICATED WIRING IN THIS SPACE UNO. OUTLETS AND WIRING MAY REAMIN FOR REUSE IF FEASIBLE.
4. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, TELEPHONE OUTLETS, CATV OUTLETS, DOOR BELL EQUIPMENT, AND THEIR ASSOCIATED WIRING BACK TO THE NEAREST DEVICE/JUNCTION BOX TO REMAIN WHERE SHOWN ON WALLS TO BE REMOVED.
5. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, AND ANY OTHER DEVICE THAT IS LOCATED ON A WALL TO REMAIN, UNO. OUTLET BOXES AND EXISTING WIRING MAY BE REUSED WHERE FEASIBLE.
6. REMOVE PEDESTRIAN POST-TOP LUMINAIRE. POLE AND WIRING SHALL REMAIN.
7. DISCONNECT EQUIPMENT/MOTOR FOR REMOVAL. OUTLET AND CIRCUIT CONDUCTORS SHALL REMAIN FOR CONNECTION TO NEW EQUIPMENT. SEE ELECTRICAL RENOVATION PLANS.
8. ATTIC LIGHT SHALL REMAIN.
9. MODIFY GARAGE RECEPTACLE CIRCUITRY TO FACILITATE INDIVIDUAL GFI RECEPTACLE CONTROL. LOADSIDE PROTECTION FROM UPSTREAM GFI RECEPTACLES SHALL BE UNACCEPTABLE.
10. REMOVE NMCI OUTLET AND COMMUNICATION SERVICE FROM NMCI CABINET (PEDESTAL) TO UNIT 201 IN ACCORDANCE WITH THE SCHEDULED SEQUENCE OF CONSTRUCTION. VERIFY WITH CONTRACTING OFFICER.
11. COORDINATE REMOVAL AND RE-INSTALLATION OF SATELITE TV AND INTERNET HARDWARE AND SERVICE WITH LOCAL UTILITY PROVIDER TO FACILITATE RENOVATION OF EACH UNIT.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FOUR "B" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK CTS

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B
ELECTRICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

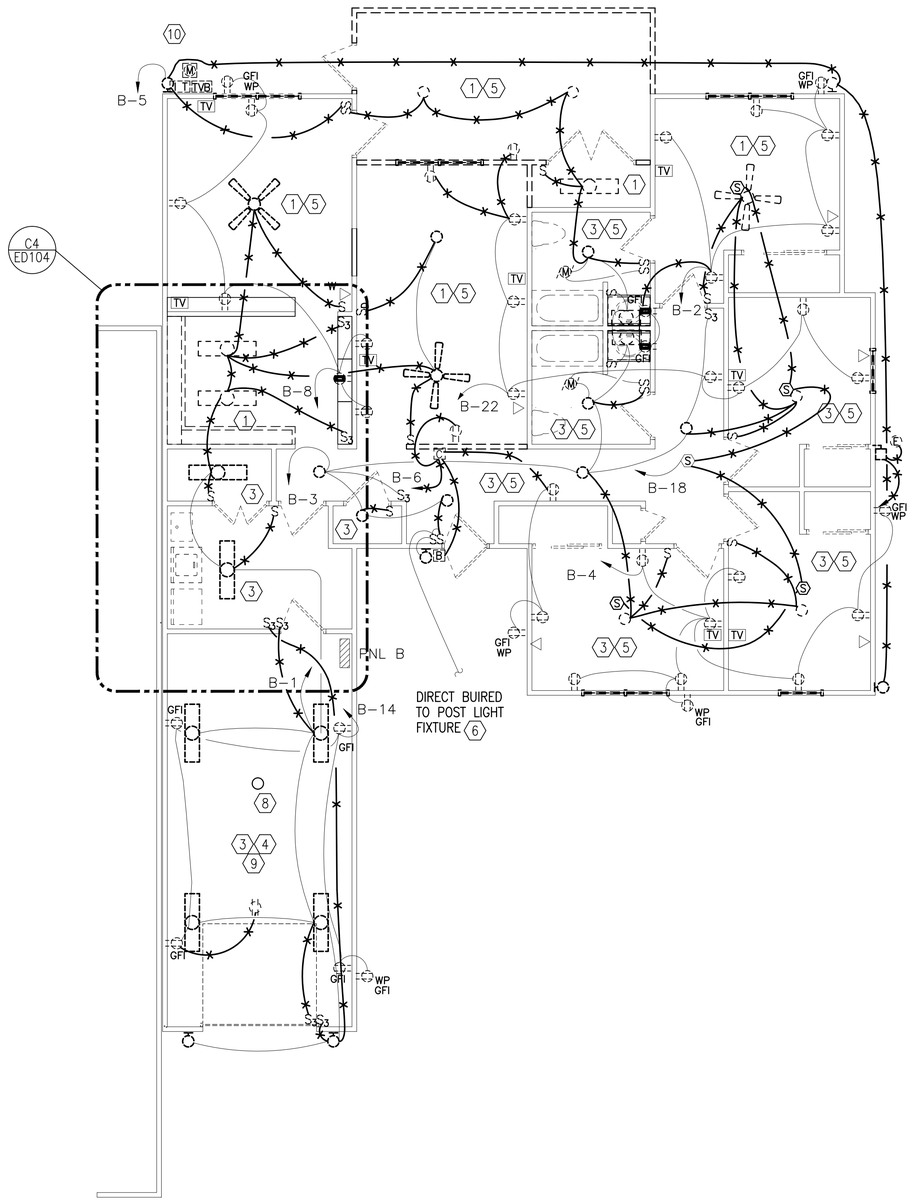
NAVFAC DRAWING NO. 12708358

SHEET 106 OF 120

ED103

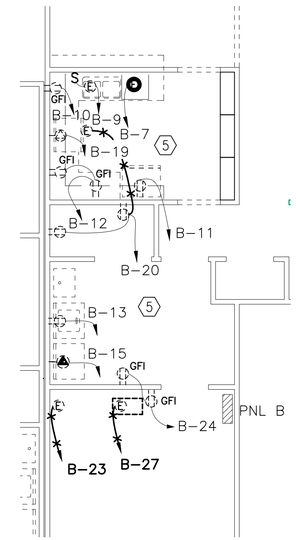
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-ED103.dwg LAYOUT NAME: ED103 PLOTTED: Wednesday, December 02, 2015 - 12:32pm USER: charles.shaeffer



UNIT C ELECTRICAL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



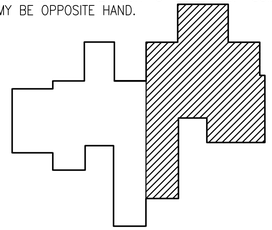
C4 UNIT C KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0" ED104

DEMOLITION KEYNOTES

1. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND ASSOCIATED WIRING/OUTLETS IN THIS SPACE UNO.
2. REMOVE ALL WIRING DEVICES, SINGLE STATION DETECTORS, TELEPHONE, CATV OUTLETS, AND THEIR ASSOCIATED WIRING IN THIS SPACE UNO.
3. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND INDICATED WIRING IN THIS SPACE UNO. OUTLETS AND WIRING MAY REAMIN FOR REUSE IF FEASIBLE.
4. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, TELEPHONE OUTLETS, CATV OUTLETS, DOOR BELL EQUIPMENT, AND THEIR ASSOCIATED WIRING BACK TO THE NEAREST DEVICE/JUNCTION BOX TO REMAIN WHERE SHOWN ON WALLS TO BE REMOVED.
5. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, AND ANY OTHER DEVICE THAT IS LOCATED ON A WALL TO REMAIN, UNO. OUTLET BOXES AND EXISTING WIRING MAY BE REUSED WHERE FEASIBLE.
6. REMOVE PEDESTRIAN POST-TOP LUMINAIRE. POLE AND WIRING SHALL REMAIN.
7. DISCONNECT EQUIPMENT/MOTOR FOR REMOVAL. OUTLET BOX AND CIRCUIT CONDUCTORS SHALL REMAIN FOR CONNECTION TO NEW WORK. SEE ELECTRICAL RENOVATION PLANS.
8. ATTIC LIGHT SHALL REMAIN.
9. MODIFY EXISTING GARAGE RECEPTACLE CIRCUITRY TO FACILITATE INDIVIDUAL GFI RECEPTACLE CONTROL. LOADSIDE PROTECTION BY UPSTREAM GFI RECEPTACLES SHALL BE UNACCEPTABLE.
10. COORDINATE THE REMOVAL AND RE-INSTALLATION OF SATELITE TV AND INTERNET SERVICE HARDWARE AND CABLING WITH THE LOCAL UTILITY PROVIDER TO FACILITATE THE RENOVATION OF THE EACH UNIT.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FOUR "C" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C
ELECTRICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

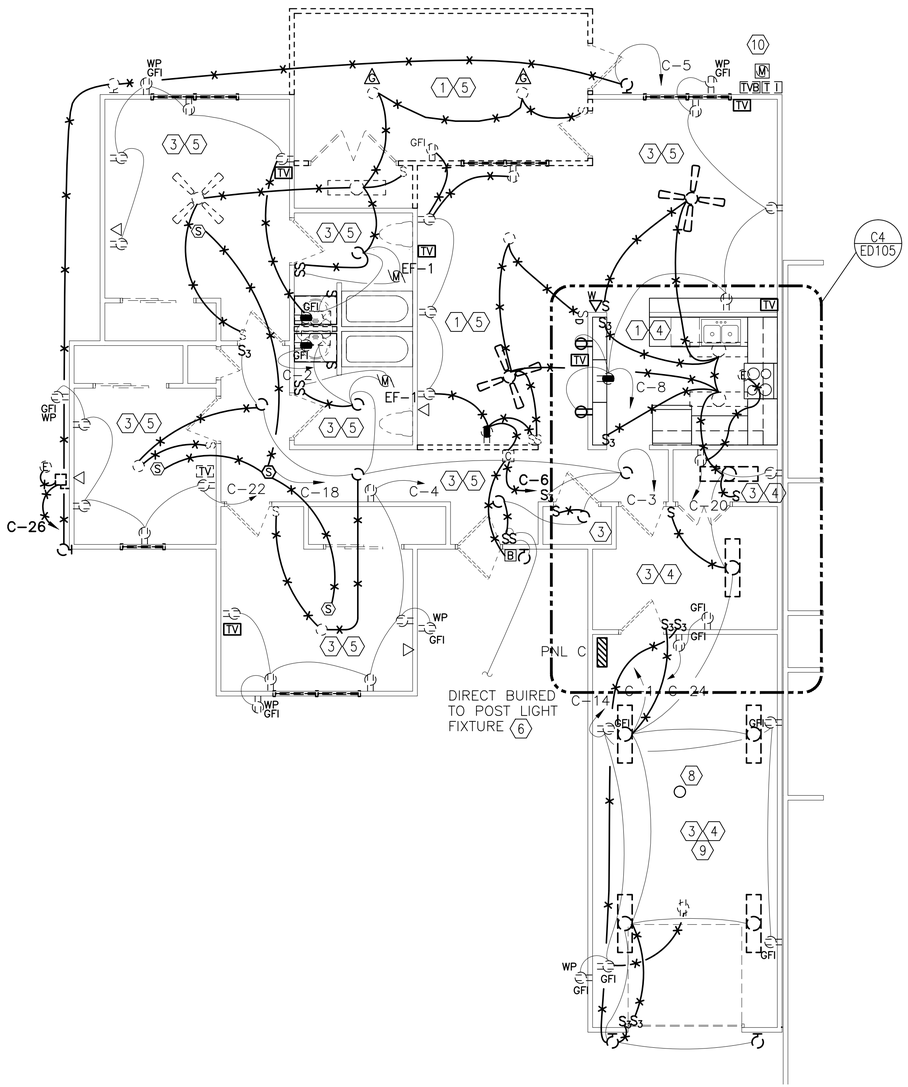
NAVFAC DRAWING NO. 12708359

SHEET 107 OF 120

ED104

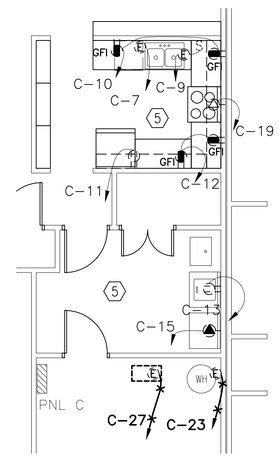
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DRB_SketherLineRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-ED104.dwg LAYOUT NAME: ED104 PLOTTED: Wednesday, December 02, 2015 - 12:18pm USER: charles.shaeffer



UNIT D ELECTRICAL DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



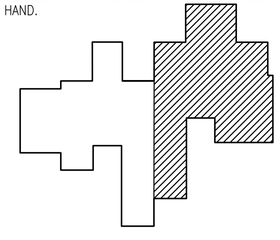
C4 UNIT D KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0" ED105

DEMOLITION KEYNOTES

1. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND ASSOCIATED WIRING/OUTLETS IN THIS SPACE UNO.
2. REMOVE ALL WIRING DEVICES, SINGLE STATION DETECTORS, TELEPHONE, CATV OUTLETS, AND THEIR ASSOCIATED WIRING IN THIS SPACE UNO.
3. REMOVE ALL LIGHTS, LIGHT CONTROLLERS, AND INDICATED WIRING IN THIS SPACE UNO. OUTLETS AND WIRING MAY REAMIN FOR REUSE IF FEASIBLE.
4. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, TELEPHONE OUTLETS, CATV OUTLETS, DOOR BELL EQUIPMENT, AND THEIR ASSOCIATED WIRING BACK TO THE NEAREST DEVICE/JUNCTION BOX TO REMAIN WHERE SHOWN ON WALLS TO BE REMOVED.
5. REMOVE ALL WIRING DEVICES, LIGHT CONTROLLERS, AND ANY OTHER DEVICE THAT IS LOCATED ON A WALL TO REMAIN, UNO. OUTLET BOXES AND EXISTING WIRING MAY BE REUSED WHERE FEASIBLE.
6. REMOVE PEDESTRIAN POST-TOP LUMINAIRE. POLE AND WIRING SHALL REMAIN.
7. DISCONNECT EQUIPMENT/MOTOR FOR REMOVAL. OUTLET BOX AND CIRCUIT CONDUCTORS SHALL REMAIN FOR RECONNECTION TO NEW WORK. SEE ELECTRICAL RENOVATION PLANS.
8. ATTIC LIGHT SHALL REMAIN.
9. MODIFY GARAGE RECEPTACLE CIRCUITRY TO FACILITATE INDIVIDUAL GFI RECEPTACLE CONTROL. LOADSIDE PROTECTION FROM UPSTREAM GFI RECEPTACLES SHALL BE UNACCEPTABLE.
10. COORDINATE THE REMOVAL AND RE-INSTALLATION OF SATELITE TV AND INTERNET HARDWARE AND CABLING WITH THE LOCAL UTILITY PROVIDER TO FACILITATE THE RENOVATION OF EACH UNIT.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE TWO "D" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT D
ELECTRICAL DEMOLITION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

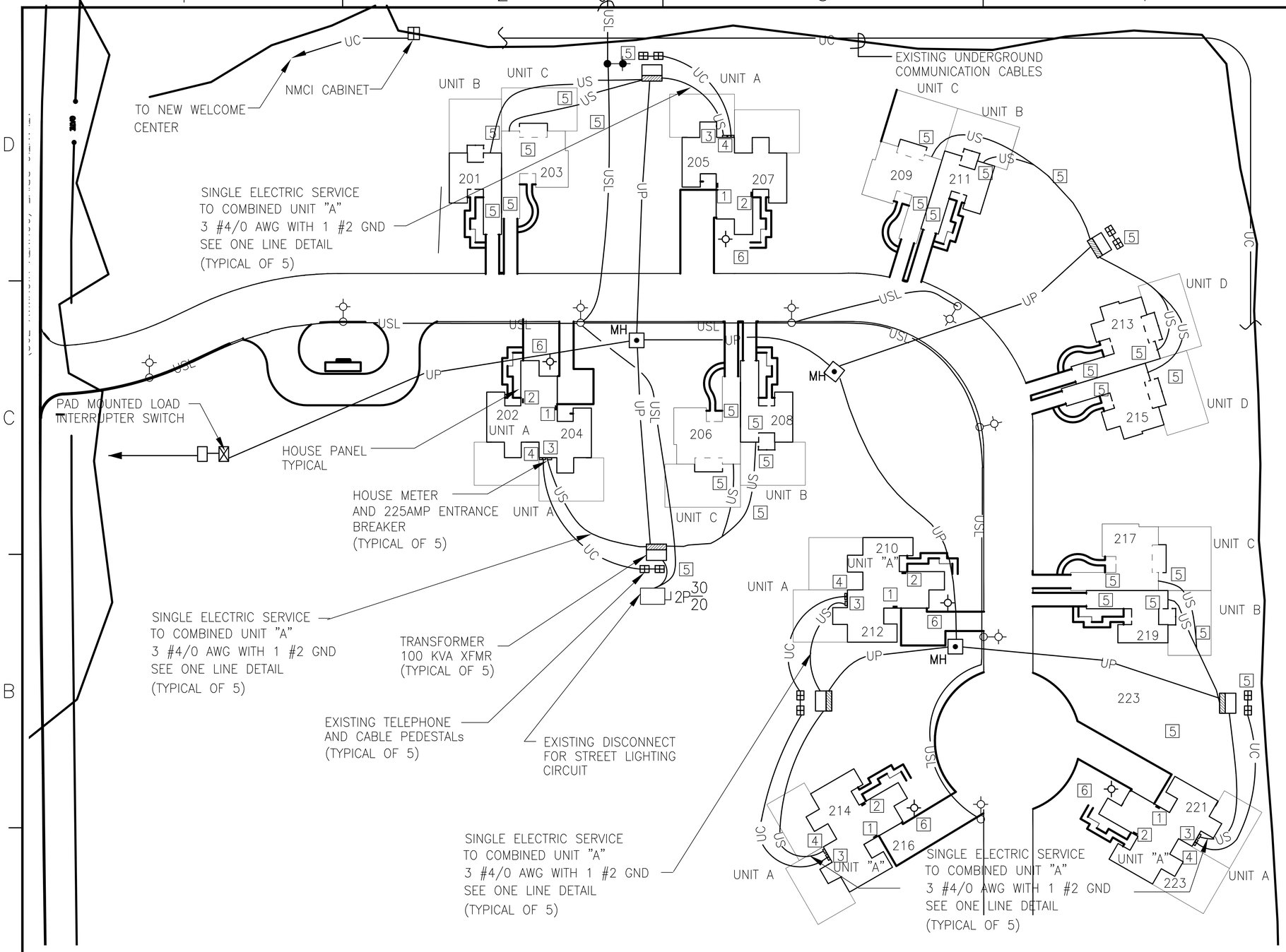
NAVFAC DRAWING NO. 12708360

SHEET 108 OF 120

ED105

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\LineRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-ED105.dwg LAYOUT NAME: ED105 PLOTTED: Wednesday, December 02, 2015 - 12:13pm USER: charles.shaeffer



ELECTRICAL SITE PLAN

SCALE: 1" = 40'

GENERAL SHEET NOTES

1. ALL WORK INDICATED IS NEW WORK UNLESS SPECIFICALLY INDICATED OTHERWISE.
2. ALL ITEMS INDICATED SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING OR AS PROVIDED BY THE GOVERNMENT.

NEW WORK KEYNOTES

1. 225 AMP 240 VOLT SINGLE PHASE PANEL TO SERVE AS MAIN PANEL FOR NEW COMBINED "A" UNITS.
2. MAIN PANEL TO FEED 100 AMP 240 VOLT SUBPANEL USING 2 POLE 100A BREAKER, IN SAME LOCATION AS ORIGINAL PANEL FOR THIS UNIT.
3. ONE 225 AMP ENCLOSED BREAKER TO SERVE AS SERVICE FOR NEW COMBINED "A" UNITS, TO ELIMINATE ONE OF TWO SERVICES.
4. ONE TELEPHONE AND ONE CABLE CONNECTION TO REPLACE EXISTING TWO SERVICES TO NEW COMBINED "A" UNITS.
5. EXISTING SERVICE, TELEPHONE, AND CABLE WIRING TO REMAIN.
6. LIGHT TO BE RELOCATED AS NEEDED FOR DRIVEWAY RELOCATION.

GRAPHIC SCALE

0 40' 80'

1" = 40'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRWN WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
ELECTRICAL SITE PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

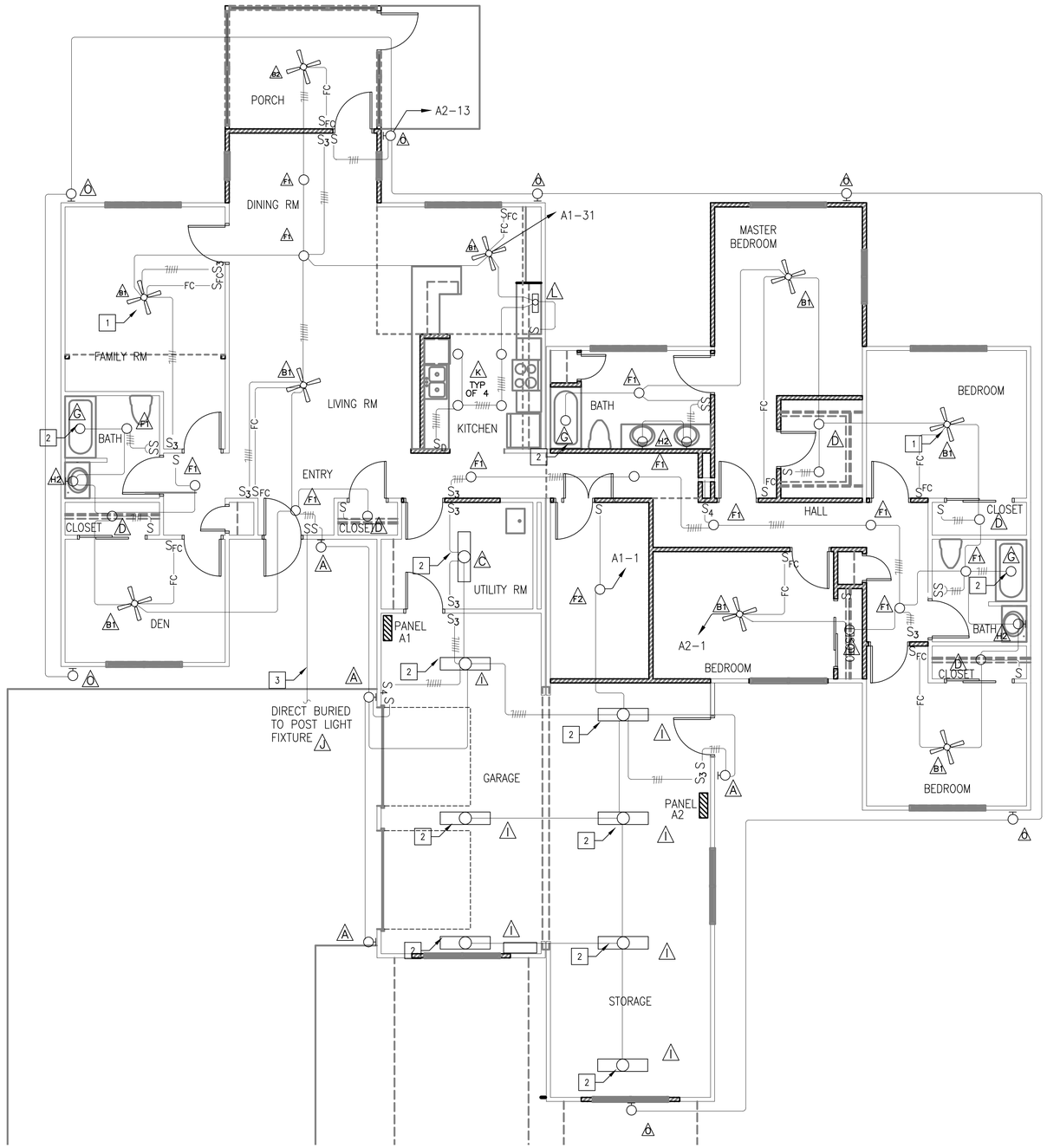
NAVFAC DRAWING NO. 12708361

SHEET 109 OF 120

ES101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sweetent.ure\Renovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\1366573-ES101.dwg LAYOUT NAME: ES101 PLOTTED: Thursday, December 03, 2015 - 2:54pm USER: william.e.denny



UNIT A LIGHTING RENOVATION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. UPGRADE ALL EXISTING RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES AS INDICATED. PROVIDE NEW DEVICES IN EXISTING OUTLET BOXES AND RECONNECT TO EXISTING CIRCUIT CONDUCTORS WHERE FEASIBLE. PROVIDE NEW COVERPLATES.
2. PROVIDE TAMPERPROOF, AND GROUND-FAULT, CIRCUIT-INTERRUPTER TYPE RECEPTACLES WHERE REQUIRED. PROVIDE NEW COMBINATION TYPE ARC-CAULT CIRCUIT BREAKERS FOR NEW OR EXISTING CIRCUITS AS REQUIRED BY THE NEC.
3. CONCEAL ALL CIRCUIT CONDUCTORS WITHIN WALLS, CEILINGS, OR EXPOSED IN THE ATTIC SPACE. CUT AND PATCH ANY EXISITNG WALL OR CEILING TO CONCEAL NEW CONDUCTORS AND TO TIE-IN TO EXISTING CIRCUIT CONCUCTORS. PROVIDE AN ACCESSIBLE JUNCTION BOX TO SPLICE INTO EXISTING CIRCUIT CONDUCTORS WHERE REQUIRED.

NEW WORK KEYNOTES

1. MOUNT AT 8' TO BOTTOM OF FAN.
2. DAMP LOCATION LIGHTS.
3. PROVIDE UNDERGROUND RATED UF CABLE 12/2 WITH GROUND.

NOTE.
NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FIVE "A" BUILDINGS.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES: WED DRW: WED CHK: KDL

JTL/APK: JTL/DAY

BRANCH MANAGER: KDL

CHIEF ENG/ARCH: RLW

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
LIGHTING RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

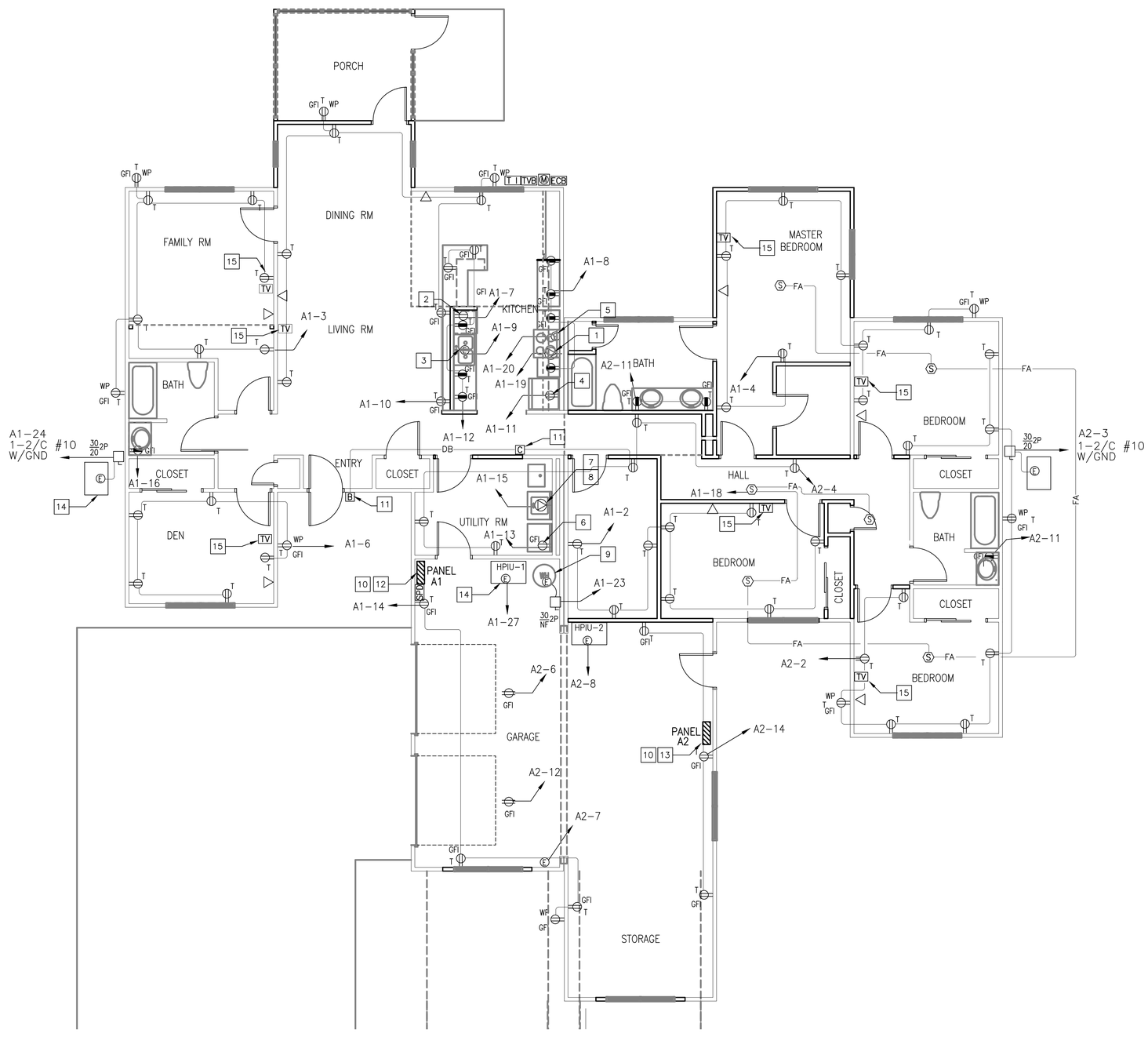
NAVFAC DRAWING NO. 12708362

SHEET 110 OF 120

E-101

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sketches\ConversionRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-101.dwg LAYOUT NAME: E-101 PLOTTED: Wednesday, December 02, 2015 - 9:08pm USER: william.e.denny



UNIT A POWER RENOVATION PLAN

SCALE: 3/16" = 1'-0"

GENERAL SHEET NOTES

1. UPGRADE ALL EXISTING RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES AS INDICATED. PROVIDE NEW DEVICES IN EXISTING OUTLET BOXES AND RECONNECT TO EXISTING CIRCUIT CONDUCTORS WHERE FEASIBLE. PROVIDE NEW COVERPLATES.
2. PROVIDE TAMPERPROOF, AND GROUND-FAULT, CIRCUIT-INTERRUPTER TYPE RECEPTACLES WHERE REQUIRED. PROVIDE NEW COMBINATION TYPE ARC-FAULT CIRCUIT BREAKERS FOR NEW OR EXISTING CIRCUITS AS REQUIRED BY THE NEC.
3. CONCEAL ALL CIRCUIT CONDUCTORS WITHIN WALLS, CEILINGS, OR EXPOSED IN THE ATTIC SPACE. CUT AND PATCH ANY EXISITNG WALL OR CEILING TO CONCEAL NEW CONDUCTORS AND TO TIE-IN TO EXISTING CIRCUIT CONCUCTORS. PROVIDE AN ACCESSIBLE JUNCTION BOX TO SPLICE INTO EXISTING CIRCUIT CONDUCTORS WHERE REQUIRED.

NEW WORK KEYNOTES

1. RANGE RECEPTACLE, 50A, 125/250V.
2. DISHWASHER, 9A, 115V.
3. GARBAGE DISPOSAL, 3/4HP, 115V.
4. REFRIGERATOR/FREEZER, 8A, 115V.
5. MICROWAVE – RANGE HOOD/LIGHT ASSEMBLY, 10A, 115V.
6. WASHER, 8A, 115V.
7. DRYER RECEPTACLE, 30A, 125/250V. PROVIDE 3 #10 AWG WITH #12 AWG GROUND, IN 3/4" CONDUIT.
8. PROVIDE CORD AND PLUG TO MATCH RECEPTACLE.
9. WATER HEATER, 4.5KW, 240V, 1-PH. PROVIDE 3 #10 AWG WITH #12 AWG GROUND, IN 3/4" CONDUIT.
10. FOR REPLACED PANELBOARDS. USE EXISTING CIRCUITS NOT REPLACE BY MODIFICATIONS. SEE SCHEDULE SHEET E-601.
11. DOOR BELL AND PUSH BUTTON.
12. PROVIDE 225 AMP, 240 VOLT, SINGLE PHASE, 42 CIRCUIT PANELBOARD, "A1".
13. PROVIDE 100 AMP, 240 VOLT, SINGLE PHASE, 20 CIRCUIT PANELBOARD, "A2". PROVIDE 3 #2 AWG AND 1 #8AWG GROUND.
14. REPLACE INDOOR AND OUTDOOR HEAT PUMP UNITS. FOR HPIU 1 AND 2, PROVIDE 2 #8 AWG WIRE and 1 #10 AWG IN 1 1/4" CONDUIT EACH. FOR HPOU 1 AND 2 PROVIDE 3 # 12 AWG IN 3/4" CONDUIT EACH.
15. CATV CABLE TO BE PROVIDED AT THESE LOCATIONS.

NOTE.
NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FIVE "A" BUILDINGS.

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRW WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT A POWER RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

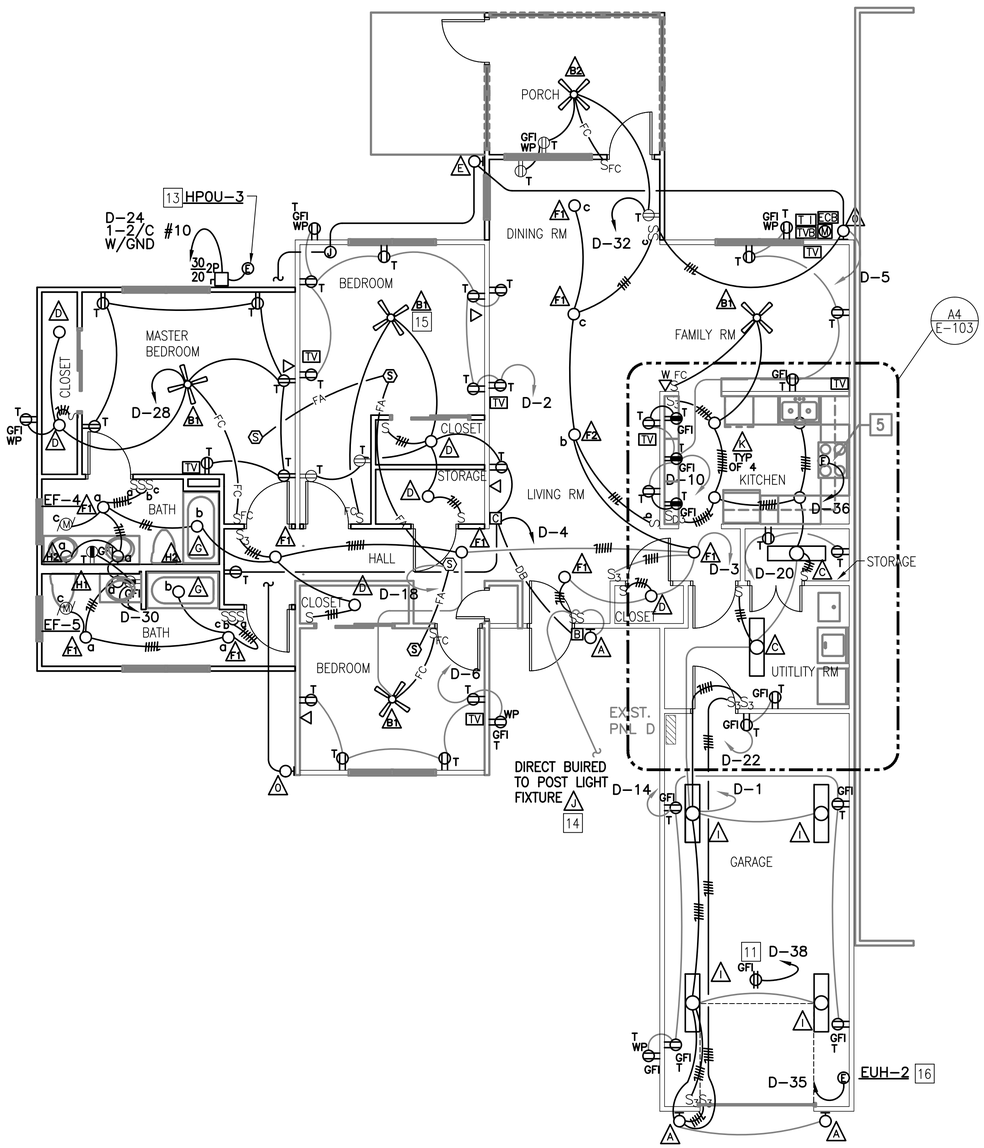
NAVFAC DRAWING NO. 12708363

SHEET 111 OF 120

E-102

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetertLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-102.dwg LAYOUT NAME: E-102 PLOTTED: Wednesday, December 02, 2015 - 9:17pm USER: william.e.denny



UNIT B ELECTRICAL RENOVATION PLAN

SCALE: 3/16" = 1'-0"

EXISTING LOADCENTER "D" SCHEDULE

200 A. MCB, 120/240 V., 1 PHASE, 3 WIRE, 22 KAIC MINIMUM, FLUSH MOUNT ④

	LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED	
②	LTG KIT, GAR, DR	6		20	12	1			2	12	20	12		RECEPTS LR, BR	②
②	LTG LR,BR,HALL,BATH		6	20	12	3			4	12	20		8	RECEPTS LR,HALL,BR	②
	LTG EXTERIOR	1		20	12	5			6	12	20	8		RECEPTS BR	②
⑥	DISHWASHER		9	20	12	7			8	12	20		6	RECEPTS KIT	②
⑥	GARBAGE DISPOSAL	8		20	12	9			10	12	20	11		RECEPTS LR, DR, KIT	②
⑥	REFRIGERATOR		8	20	12	11			12	12	20		6	RECEPTS KIT	②
⑥	WASHER	8		20	12	13			14	12	20	8		RECEPTS GAR	
	DRYER		21	30	10	15			16	12	20			SPARE	
		21							18	12	20	1		FIRE ALARM	②⑤
	RANGE		34	50	6	19			20	12	20		3	RECEPTS UTILITY	②
		34							22	12	20	3		RECEPTS UTILITY	②
	WATER HEATER		19	30	10	23			24	10	30		15	OUTDOOR UNIT	⑦
		19										15			
	INDOOR UNIT 10KW		46	60	6	27			28	12	20		12	NEW MSTR BR	①③
		46							30	12	20	6		NEW BATH RMS	①
①	SPD			20	12	31			32	12	20		6	NEW LR & PORCH	①③
									34		20			SPARE	①
①	GARAGE HTR		4	20	12	35			36	12	20		10	MICROWAVE/HOOD	①③
		4							38	12	20	8		GARAGE DOOR	①
	SPACE ONLY					39			40		20			SPARE	①
	TOTAL	147	147									72	66	TOTAL	

TOTAL CONNECTED AMPS A: 219 B: 213

PANEL SCHEDULE NOTES:

① PROVIDE NEW CB IN EXISTING PANEL SPACE AS INDICATED.

② REPLACE EXISTING CB WITH COMBINATION TYPE ARC-FAULT CIRCUIT BREAKER AS INDICATED.

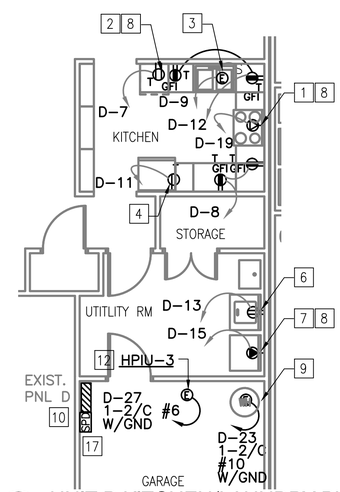
③ COMBINATION TYPE ARC-FAULT CIRCUIT BREAKER.

④ EXISTING GENERAL ELECTRIC LOADCENTER POWERMARK GOLD SERIES. THE EXACT CIRCUIT ARRANGEMENT MY DIFFER BETWEEN UNITS. REPLACE AND ADD CIRCUIT BREAKERS ACCORDINGLY TO MATCH THE UNITS SPECIFIC CIRCUIT CONFIGURATION.

⑤ PROVIDE "LOCK-ON" TYPE CIRCUIT BREAKER WITH RED HANDLE.

⑥ REPLACE EXISTING CB WITH A DUAL-FUNCTION COMBINATION TYPE ARC-FAULT/ CLASS A GROUND-FAULT CIRCUIT BREAKER AS INDICATED. BREAKER SHALL FIT IN A SINGLE SPACE.

⑦ REPLACE EXISTING CIRCUIT BREAKER WITH NEW AS INDICATED.



A4 UNIT B KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0" E-103

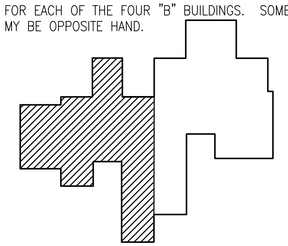
GENERAL SHEET NOTES

1. UPGRADE ALL EXISTING RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES AS INDICATED. PROVIDE NEW DEVICES IN EXISTING OUTLET BOXES AND RECONNECT TO EXISTING CIRCUIT CONDUCTORS WHERE FEASIBLE. PROVIDE NEW COVERPLATES.
2. PROVIDE TAMPERPROOF, AND GROUND-FAULT, CIRCUIT-INTERRUPTER TYPE RECEPTACLES WHERE REQUIRED. PROVIDE NEW COMBINATION TYPE ARC-CAULT CIRCUIT BREAKERS FOR NEW OR EXISTING CIRCUITS AS REQUIRED BY THE NEC.
3. CONCEAL ALL CIRCUIT CONDUCTORS WITHIN WALLS, CEILINGS, OR EXPOSED IN THE ATTIC SPACE. CUT AND PATCH ANY EXISITNG WALL OR CEILING TO CONCEAL NEW CONDUCTORS AND TO TIE-IN TO EXISTING CIRCUIT CONCUCTORS. PROVIDE AN ACCESSIBLE JUNCTION BOX TO SPLICE INTO EXISTING CIRCUIT CONDUCTORS WHERE REQUIRED.
4. PROVIDE UL-LISTED OUTLET BOXES WIRED AND SUPPORTED FOR USE WITH CEILING MOUNTED PADDLE FANS IN ACCORDANCE WITH THE NEC FOR ALL NEW AND RENOVATED CEILING FAN CIRCUITS. COORDINATE LOCATIONS OF ALL CEILING MOUNTED SINGLE STATION SMOKE DETECTOR WITH CEILING FANS TO ENSURE PROPER OPERATION.

NEW WORK KEYNOTES

1. RANGE RECEPTACLE, 50A, 250V.
2. DISHWASHER, 9A, 115V.
3. GARBAGE DISPOSAL, 3/4HP, 115V.
4. REFRIGERATOR/FREEZER, 8A, 115V.
5. MICROWAVE – RANGE HOOD/LIGHT ASSEMBLY, 10A, 115V.
6. WASHER, 8A, 115V.
7. DRYER RECEPTACLE, 30A, 250V.
8. PROVIDE CORD AND PLUG TO MATCH RECEPTACLE.
9. WATER HEATER, 4.5KW, 240V, 1-PH.
10. EXISTING PANEL. MAKE CIRCUIT BREAKER MODIFICATIONS. SEE SCHEDULE THIS SHEET.
11. RECEPTACLE IN CEILING FOR MOTORIZED GARAGE DOOR OPERATOR, 1/2HP, 115V.
12. INDOOR HEAT-PUMP UNIT, 10 KW, 240V, 1-PH.
13. OUTDOOR HEAT-PUMP UNIT, 17.9 MCA, 240V, 1-PH.
14. MOUNT NEW POST-TOP LUMINAIRE ON EXISTING POLE NEAR SIDEWALK.
15. PROVIDE MOUNTING STEM AND CEILING PLATE FOR SLOPED CEILING. SUSPEND TO 84" AFF TO BOTTOM.
16. ELECTRIC UNIT HEATER, 1KW, 240V, 1-PH.
17. CONNECT SPD TO LOADCENTER WITH 1-3/C #12 W/GND.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FOUR "B" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT B KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

APPR	DATE	DESCRIPTION	SYM

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B ELECTRICAL RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

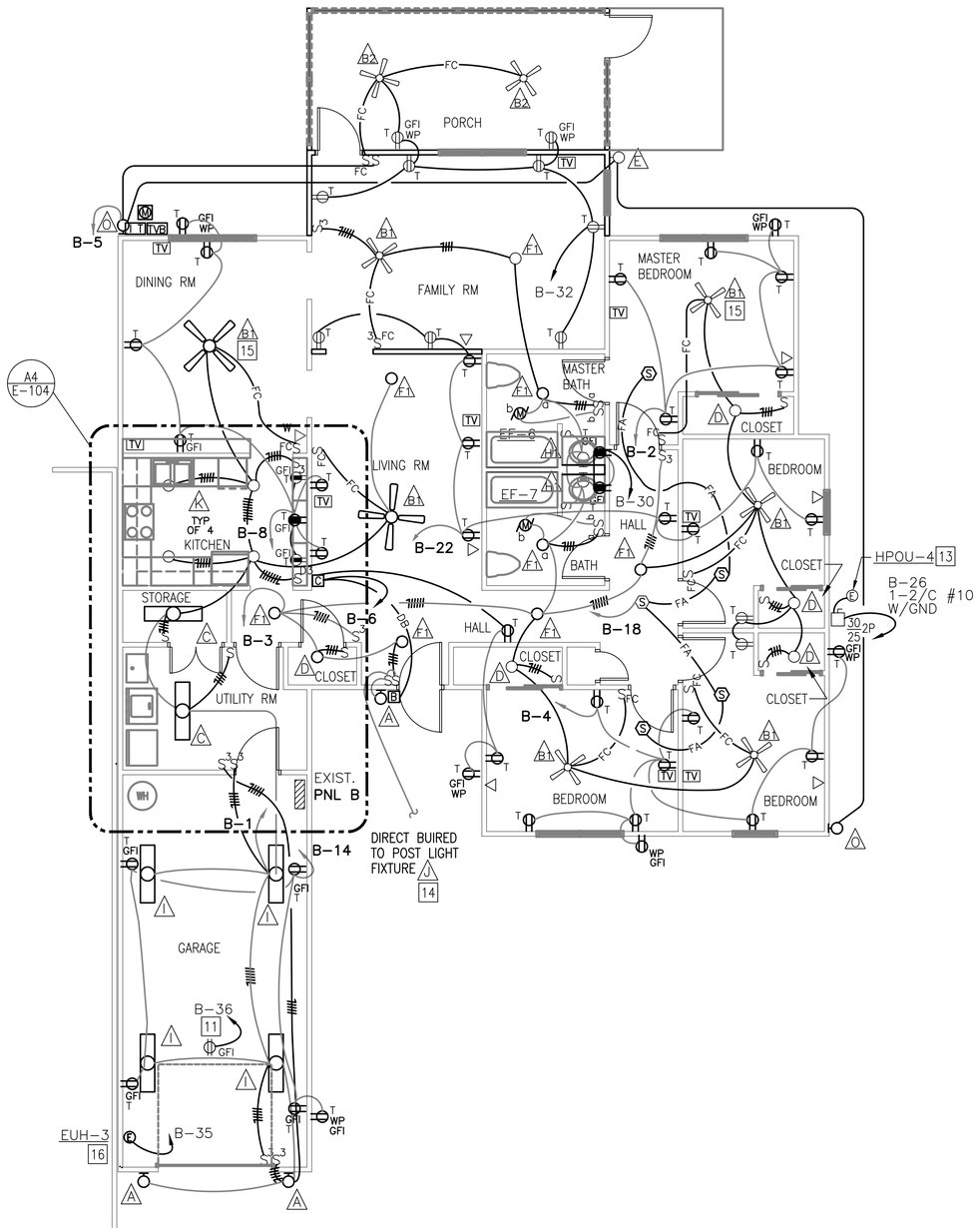
NAVFAC DRAWING NO. 12708364

SHEET 112 OF 120

E-103

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetersLanePenovationsAndConversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-103.dwg LAYOUT NAME: E-103 PLOTTED: Wednesday, December 02, 2015 - 1:46pm USER: charles.shoeffer



UNIT C ELECTRICAL RENOVATION PLAN

SCALE: 3/16" = 1'-0"

EXISTING LOADCENTER "B" SCHEDULE

200 A. MCB, 120/240 V., 1 PHASE, 3 WIRE, 22 KAIC MINIMUM, FLUSH MOUNT ④

	LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED	
②	LTG KIT, GAR, DR	7		20	12	1			2	12	20	9		RECEPTS MBR	②
②	LTG LR, BR, HALL		10	20	12	3			4	12	20		14	RECEPTS BRS	②
	LTG EXTERIOR	1		20	12	5			6	12	20	5		RECEPTS LR, HALL,BR	②
⑥	DISHWASHER		9	20	12	7			8	12	20		11	RECEPTS KIT,LR, DR	②
⑥	GARBAGE DISPOSAL	8		20	12	9			10	12	20	6		RECEPTS KIT	②
⑥	REFRIGERATOR		8	20	12	11			12	12	20		6	RECEPTS KIT	②
⑥	WASHER	8		20	12	13			14	12	20	8		RECEPTS GAR	
	DRYER		21	30	10	15			16	12	20			SPARE	
		21							18	12	20	1		FIRE ALARM	②⑤
	RANGE		34	50	6	19			20	12	20		3	RECEPTS UTILITY	②
		34							22	12	20	14		RECEPTS LR,BR,FAM	②
	WATER HEATER		19	30	10	23			24	12	20		3	RECEPTS UTILITY	②
		19							26	10	30	17		OUTDOOR UNIT	
⑦	INDOOR UNIT 10KW		46	60	6	27							17		
		46							30	12	20	6		RECEPTS BATHS	①
①	SPD			20	12	31			32	12	20		13	NEW FAM & PORCH	①③
									34	12	20	10		MICROWAVE/HOOD	①③
①	GARAGE HTR		4	20	12	35			36	12	20		8	GARAGE DOOR	①
		4							38		20			SPARE	①
	SPACE ONLY					39			40					SPACE ONLY	
	TOTAL	148	151									76	80	TOTAL	
	TOTAL CONNECTED AMPS A: 224 B: 231														

PANEL SCHEDULE NOTES:

① PROVIDE NEW CB IN EXISTING PANEL SPACE AS INDICATED.

② REPLACE EXISTING CB WITH COMBINATION ARC-FAULT CIRCUIT BREAKER AS INDICATED.

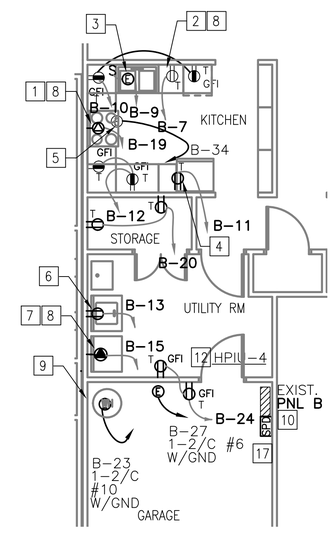
③ COMBINATION ARC-FAULT CIRCUIT BREAKER.

④ EXISTING GENERAL ELECTRIC LOADCENTER POWERMARK GOLD SERIES. THE EXACT CIRCUIT ARRANGEMENT MY DIFFER BETWEEN UNITS. REPLACE AND ADD CIRCUIT BREAKERS ACCORDINGLY TO MATCH THE UNITS SPECIFIC CIRCUIT CONFIGURATION.

⑤ PROVIDE "LOCK-ON" TYPE CIRCUIT BREAKER WITH RED HANDLE.

⑥ REPLACE EXISTING CB WITH A DUAL-FUNCTION COMBINATION TYPE ARC-FAULT/ CLASS A GROUND-FAULT CIRCUIT BREAKER AS INDICATED. BREAKER SHALL FIT IN A SINGLE SPACE.

⑦ REPLACE EXISTING CIRCUIT BREAKER WITH NEW AS INDICATED.



A4 UNIT C KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0" E-104

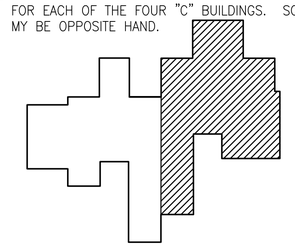
GENERAL SHEET NOTES

1. UPGRADE ALL EXISTING RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES AS INDICATED. PROVIDE NEW DEVICES IN EXISTING OUTLET BOXES AND RECONNECT TO EXISTING CIRCUIT CONDUCTORS WHERE FEASIBLE. PROVIDE NEW COVERPLATES.
2. PROVIDE TAMPERPROOF, AND GROUND-FAULT, CIRCUIT-INTERRUPTER TYPE RECEPTACLES WHERE REQUIRED. PROVIDE NEW COMBINATION TYPE ARC-CAULT CIRCUIT BREAKERS FOR NEW OR EXISTING CIRCUITS AS REQUIRED BY THE NEC.
3. CONCEAL ALL CIRCUIT CONDUCTORS WITHIN WALLS, CEILINGS, OR EXPOSED IN THE ATTIC SPACE. CUT AND PATCH ANY EXISITNG WALL OR CEILING TO CONCEAL NEW CONDUCTORS AND TO TIE-IN TO EXISTING CIRCUIT CONCUCTORS. PROVIDE AN ACCESSIBLE JUNCTION BOX TO SPLICE INTO EXISTING CIRCUIT CONDUCTORS WHERE REQUIRED.
4. PROVIDE UL-LISTED OUTLET BOXES WIRED AND SUPPORTED FOR USE WITH CEILING MOUNTED PADDLE FANS IN ACCORDANCE WITH THE NEC FOR ALL NEW AND RENOVATED CEILING FAN CIRCUITS. COORDINATE LOCATIONS OF ALL CEILING MOUNTED SINGLE STATION SMOKE DETECTOR WITH CEILING FANS TO ENSURE PROPER OPERATION.

NEW WORK KEYNOTES

1. RANGE RECEPTACLE, 50A, 250V.
2. DISHWASHER, 7A, 115V.
3. GARBAGE DISPOSAL, 3/4HP, 115V.
4. REFRIGERATOR/FREEZER, 8A, 115V.
5. MICROWAVE - HOOD/LIGHT ASSEMBLY, 10A, 115V.
6. WASHER, 8A, 115V.
7. DRYER RECEPTACLE, 30A, 250V.
8. PROVIDE CORD AND PLUG TO MATCH RECEPTACLE.
9. WATER HEATER, 4.5KW, 240V, 1-PH.
10. EXISTING PANEL. MAKE CIRCUIT MODIFICATIONS. SEE SCHEDULE THIS SHEET.
11. RECEPTACLE IN CEILING FOR MOTORIZED GARAGE DOOR OPERATOR, 1/2HP, 115V.
12. INDOOR HEAT-PUMP UNIT, 10 KW, 240V, 1-PH.
13. OUTDOOR HEAT-PUMP UNIT, 20.4 MCA, 240V, 1-PH.
14. MOUNT NEW POST-TOP LUMINAIRE TO EXISTING POLE NEAR SIDEWALK.
15. PROVIDE MOUNTING STEM AND CEILING PLATE FOR SLOPED CEILING. SUSPEND 84" AFF TO BOTTOM.
16. ELECTRIC UNIT HEATER, 1KW, 240V, 1-PH.
17. CONNECT SPD TO LOADCENTER WITH 1-3/C #12 W/GND.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE FOUR "C" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT C KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT C ELECTRICAL RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

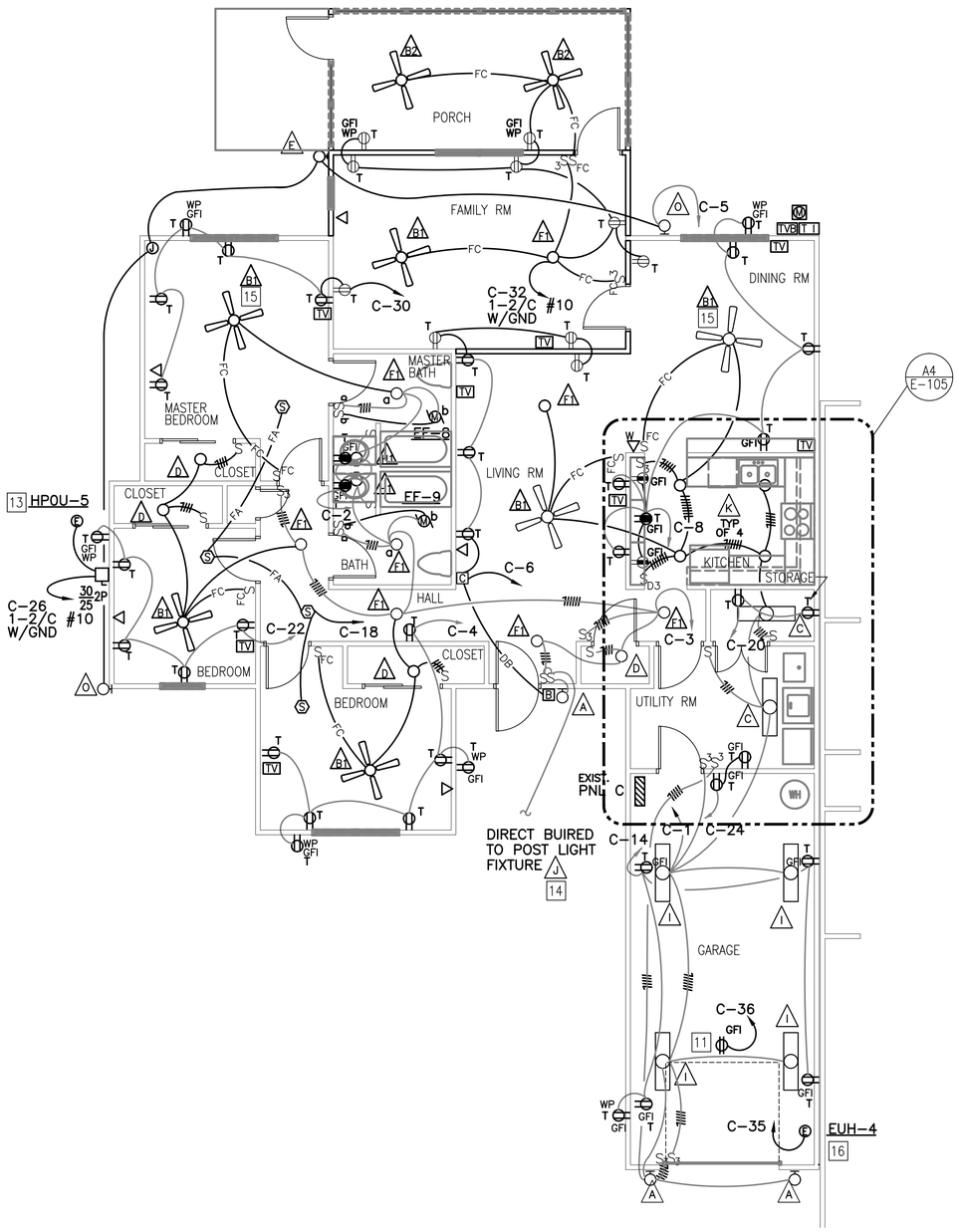
NAVFAC DRAWING NO. 12708365

SHEET 113 OF 120

E-104

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeetonLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-104.dwg LAYOUT NAME: E-104 PLOTTED: Wednesday, December 02, 2015 - 1:01pm USER: charles.shoeffer



UNIT D ELECTRICAL RENOVATION PLAN

SCALE: 3/16" = 1'-0"

EXISTING LOADCENTER "C" SCHEDULE

200 A. MCB, 120/240 V., 1 PHASE, 3 WIRE, 22 KAIC MINIMUM, FLUSH MOUNT ④

	LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED	
②	LTG KIT, GAR, LR	7		20	12	1			2	12	20	3		RECEPTS BATH	
②	LTG BR, HALL, BATH		7	20	12	3			4	12	20		11	RECEPTS BR, HALL	②
	LTG EXTERIOR	1		20	12	5			6	12	20	10		RECEPTS LR, FAM RM	②
⑥	DISHWASHER		9	20	12	7			8	12	20		11	RECEPTS LR, KIT	②
⑥	GARBAGE DISPOSAL	8		20	12	9			10	12	20	6		RECEPTS KIT	②
⑥	REFRIGERATOR		8	20	12	11			12	12	20		6	RECEPTS KIT	②
⑥	WASHER	8		20	12	13			14	12	20	8		RECEPTS GAR	
	DRYER		21	30	10	15			16		20			SPARE	
		21							18	12	20	1		FIRE ALARM	②⑤
	RANGE		34	50	6	19			20	12	20		3	RECEPTS UTILITY	②
		34							22	12	20	8		RECEPTS BR	②
	WATER HEATER		19	30	10	23			24	12	20		3	RECEPTS UTILITY	②
		19							26	10	30	17		OUTDOOR UNIT	
⑦	INDOOR UNIT 10KW		47	60	6	27							17		
		47							30	12	20	11		RECEPTS MBR,FAM RM	①③
①	SPD			20	12	31			32	10	20		13	FAM RM, PORCH	①③
									34	12	20	10		MICROWAVE/HOOD	①③
①	GARAGE HTR		4	20	12	35			36	12	20		8	GARAGE DOOR	①
		4							38		20			SPARE	①
	SPACE ONLY					39			40					SPACE ONLY	
	TOTAL	149	149									74	72	TOTAL	

TOTAL CONNECTED AMPS A: 223 B: 221

PANEL SCHEDULE NOTES:

① PROVIDE NEW CB IN EXISTING PANEL SPACE AS INDICATED.

② REPLACE EXISTING CB WITH COMBINATION ARC-FAULT CIRCUIT BREAKER AS INDICATED.

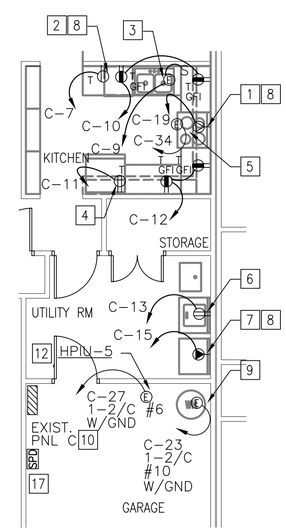
③ COMBINATION ARC-FAULT CIRCUIT BREAKER.

④ EXISTING GENERAL ELECTRIC LOADCENTER POWERMARK GOLD SERIES. THE EXACT CIRCUIT ARRANGEMENT MY DIFFER BETWEEN UNITS. REPLACE AND ADD CIRCUIT BREAKERS ACCORDINGLY TO MATCH THE UNITS SPECIFIC CIRCUIT CONFIGURATION.

⑤ PROVIDE "LOCK-ON" TYPE CIRCUIT BREAKER WITH RED HANDLE.

⑥ REPLACE EXISTING CB WITH A DUAL-FUNCTION COMBINATION TYPE ARC-FAULT/ CLASS A GROUND-FAULT CIRCUIT BREAKER AS INDICATED. BREAKER SHALL FIT IN A SINGLE SPACE.

⑦ REPLACE EXISTING CIRCUIT BREAKER WITH NEW AS INDICATED.



A4 UNIT D KITCHEN/LAUNDRY PLAN

SCALE: 3/16"=1'-0"

E-105

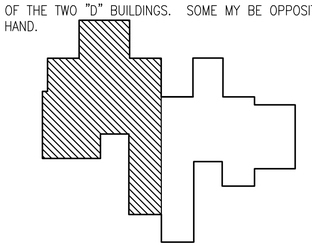
GENERAL SHEET NOTES

1. UPGRADE ALL EXISTING RECEPTACLES, SWITCHES, AND LIGHTING FIXTURES AS INDICATED. PROVIDE NEW DEVICES IN EXISTING OUTLET BOXES AND RECONNECT TO EXISTING CIRCUIT CONDUCTORS WHERE FEASIBLE. PROVIDE NEW COVERPLATES.
2. PROVIDE TAMPERPROOF, AND GROUND-FAULT, CIRCUIT-INTERRUPTER TYPE RECEPTACLES WHERE REQUIRED. PROVIDE NEW COMBINATION TYPE ARC-CAULT CIRCUIT BREAKERS FOR NEW OR EXISTING CIRCUITS AS REQUIRED BY THE NEC.
3. CONCEAL ALL CIRCUIT CONDUCTORS WITHIN WALLS, CEILINGS, OR EXPOSED IN THE ATTIC SPACE. CUT AND PATCH ANY EXISITNG WALL OR CEILING TO CONCEAL NEW CONDUCTORS AND TO TIE-IN TO EXISTING CIRCUIT CONCUCTORS. PROVIDE AN ACCESSIBLE JUNCTION BOX TO SPLICE INTO EXISTING CIRCUIT CONDUCTORS WHERE REQUIRED.
4. PROVIDE UL-LISTED OUTLET BOXES WIRED AND SUPPORTED FOR USE WITH CEILING MOUNTED PADDLE FANS IN ACCORDANCE WITH THE NEC FOR ALL NEW AND RENOVATED CEILING FAN CIRCUITS. COORDINATE LOCATIONS OF ALL CEILING MOUNTED SINGLE STATION SMOKE DETECTOR WITH CEILING FANS TO ENSURE PROPER OPERATION.

NEW WORK KEYNOTES

1. RANGE RECEPTACLE, 50A, 250V.
2. DISHWASHER, 7A, 115V.
3. GARBAGE DISPOSAL, 3/4HP, 115V.
4. REFRIGERATOR/FREEZER, 8A, 115V.
5. MICROWAVE – RANGE HOOD/LIGHT ASSEMBLY, 10A, 115V.
6. WASHER, 8A, 115V.
7. DRYER RECEPTACLE, 30A, 250V.
8. PROVIDE CORD AND PLUG TO MATCH RECEPTACLE.
9. WATER HEATER, 4.5KW, 240V, 1-PH.
10. EXISTING PANEL. MAKE CIRCUIT MODIFICATIONS. SEE SCHEDULE THIS SHEET.
11. RECEPTACLE IN CEILING FOR AUTOMATIC GARAGE DOOR OPERATOR, 1/2HP, 115V.
12. INDOOR HEAT-PUMP UNIT, 10 KW, 240V, 1-PH.
13. OUTDOOR HEAT-PUMP UNIT, 20.4 MCA, 240V, 1-PH.
14. MOUNT NEW POST-TOP LUMINAIRE TO EXISTING POLE NEAR SIDEWALK.
15. PROVIDE MOUNTING STEM AND CEILING PLATE FOR SLOPED CEILING. SUSPEND 84" AFF TO BOTTOM.
16. ELECTRIC UNIT HEATER, 1KW, 240V, 1-PH.
17. CONNECT SPD TO LOADCENTER WITH 1-3/C #12 W/GND.

NOTE: NORTH VARIES ACCORDING TO THE ORIENTATION FOR EACH OF THE TWO "D" BUILDINGS. SOME MY BE OPPOSITE HAND.



UNIT D KEY PLAN

SCALE: NTS

GRAPHIC SCALE

3/16"=1'-0" 0' 4' 8' 12'

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND NORFOLK NAVAL STATION
HAMPTON ROADS IPT
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT D ELECTRICAL RENOVATION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

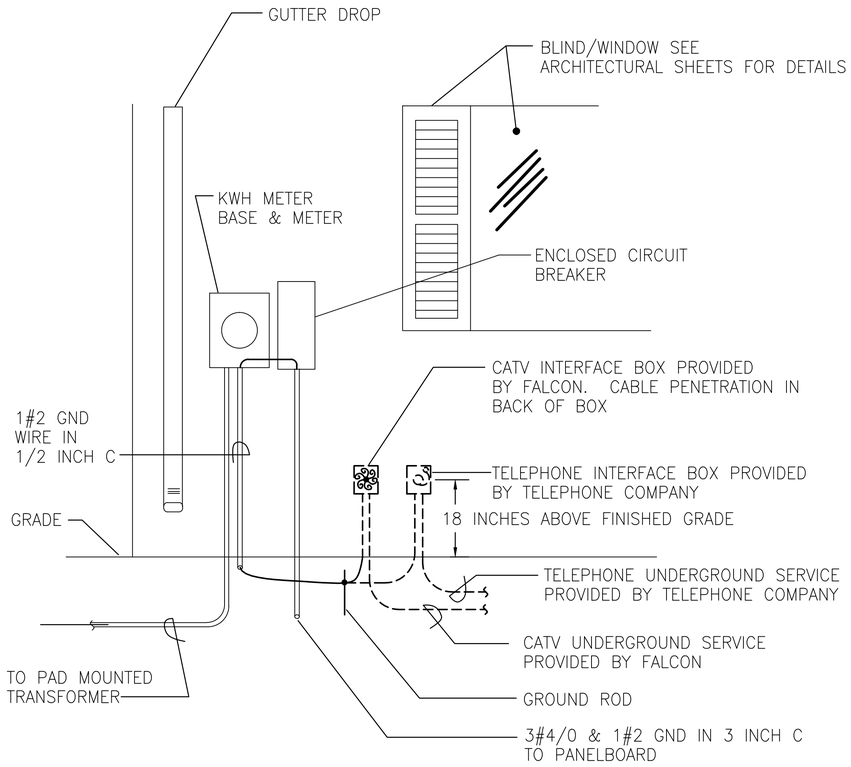
NAVFAC DRAWING NO. 12708366

SHEET 114 OF 120

E-105

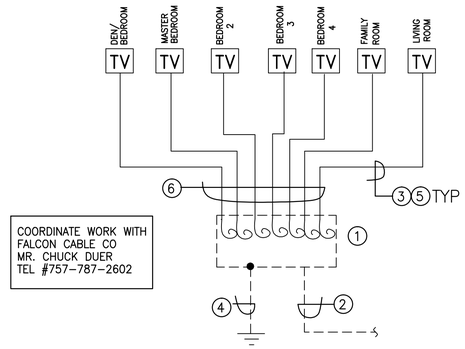
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheeter\Renovation&Conversion\BL_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-105.dwg LAYOUT NAME: E-105 PLOTTED: Wednesday, December 02, 2015 - 10:38am USER: charles.shaffer



ELEVATION A

NOT TO SCALE

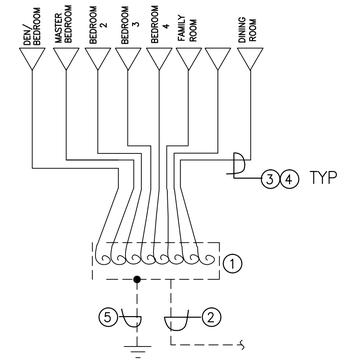


CATV RISER DIAGRAM

NOT TO SCALE

CATV RISER NOTES

1. EXISTING CATV UTILITY INTERFACE BOX.
2. EXISTING UTILITY CATV UNDERGROUND SERVICE.
3. NEW CATV CABLE.
4. EXISTING GROUNDING ELECTODE CONDUCTOR. BOND TO SERVICE GROUNDING ELECTRODE.
5. CATV CABLE (RG-6, 90% SHIELDED) RUN CONCEALED BETWEEN OUTLET AND INTERFACE BOX LOCATED ON OUTSIDE OF UNIT. LEAVE 36 INCEHS OF SLACK AT INTERFACE BOX FOR TERMINATION BY CABLE COMPANY. ROUTE EXPOSED IN THE ATTIC USING J-HOOKS. STUB 1/2" METALLIC CONDUIT FROM OUTLET BOX INTO ATTIC SPACE WITH A 90 DEGREE ELBOW AND BUSH END.
6. ALL CABLES SHALL PENETRATE OUTSIDE WALL AT SAME LOCATION.

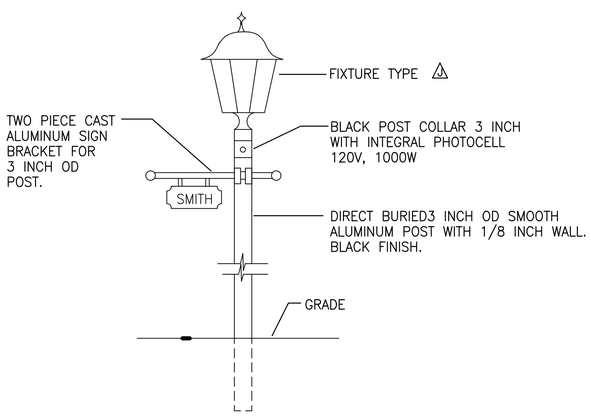


TELEPHONE RISER DIAGRAM 3

NOT TO SCALE

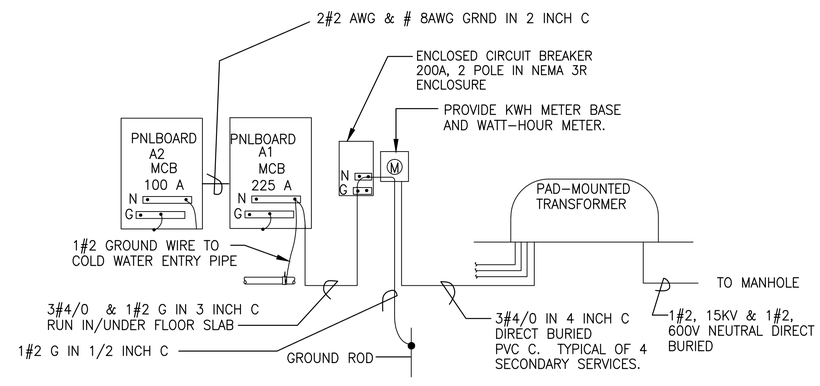
TELEPHONE RISER NOTES

1. EXISTING TELEPHONE IUTILITY NTERFACE BOX.
2. EXISTING UTILITY TELEPHONE UNDERGROUND SERVICE.
3. EXISTING TELEPHONE CABLE.
4. TELEPHONE CABLE (4 PAIR, 24 GAUGE) RUN CONCEALED BETWEEN OUTLET AND INTERFACE BOX LOCATED OUTSIDE OF UNIT. LEAVE 36 INCEHS OF SLACK AT INTERFACE BOX FOR TERMINATION BY TELEPHONE COMPANY. ROUTE EXPOSED IN THE ATTIC USING J HOOKS. STUB 1/2" METALLIC CONDUIT FROM OUTLET BOX INTO ATTIC WITH SPACE WITH A 90 DEGREE ELBOW AND BUSH END.
5. GROUND CONDUCTOR PROVIDED BY TELEPHONE COMPANY, CONNECTED TO GROUND ROD AS INDICATED ON ELEVATION "A" THIS SHEET.



POST DETAIL

NTS



UNIT A POWER RISER DIAGRAM -TYPICAL

NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRW WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA
SURFACE COMBAT SYSTEM CENTER

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT A
RISER DIAGRAMS AND DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708367

SHEET 115 OF 120

E-600

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SweetenLoneRenovationAndConversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-600.dwg LAYOUT NAME: E-600 PLOTTED: Thursday, December 03, 2015 - 2:59pm USER: william.e.denny

EXISTING PANELBOARD A SCHEDULE

200 A. MLO, 120/240 V., 1 PHASE, 3 WIRE, 22 KAIC MINIMUM, FLUSH MOUNT

LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED
LTG KIT, GAR, DR	12		20	12	1			2	12	20	9		RECEPTS LR, MBR
LTG LR, BR, HALL		12	20	12	3			4	12	20		9	RECEPTS LR, HALL
LTG EXTERIOR	3		20	12	5			6	12	20	9		RECEPTS BR, BATH
DISHWASHER		7	20	12	7			8	12	20		9	RECEPTS KIT
GARBAGE DISPOSAL	6		20	12	9			10	12	20	9		RECEPTS LR, DR
REFRIGERATOR		7	20	12	11			12	12	20		9	RECEPTS KIT
WASHER	8		20	12	13			14	12	20	9		RECEPTS GAR
DRYER		21	40	8	15			16		20			SPARE
	21							18	12	20	1		FIRE ALARM
RANGE		34	50	8	19			20	12	20		8	RANGE HOOD
	34							22	12	20	3		RECEPTS UTILITY
WATER HEATER		19	30	10	23			24	12	20		1	CP-1
	19							26	10	30	19		OUTDOOR UNITS ACDQR S&T (ADDITIVE BID#1)
WATER PUMP		13	20	12	27							19	
EMERG HEATER 8KW	33		40	8	29			30	8	50	38		INDOOR UNITS ACDQR S&T (ADDITIVE BID#1)
		33										38	
INDOOR HEAT PUMP UNIT	28		35	10	33			34					SPACE
		28						36					SPACE
SPARE			20		37			38					SPACE
SPARE			20		39			40					SPACE
SPARE			20		41			42					SPACE
TOTAL	164	174									40	36	TOTAL

TOTAL CONNECTED AMPS A: 204 B: 210 (BASE BID LOAD)

EXISTING PANELBOARD GENERAL DEMOLITION NOTES:

1. PANEL AND ALL CIRCUIT BREAKERS SHALL BE REMOVED. EXISTING HOMERUN WIRING SHALL BE REUSED WHERE POSSIBLE.

④ NEW PANELBOARD "A2" SCHEDULE

100 A. MCB, 120/240 V., 1 PHASE, 3 WIRE, 22 KAIC MINIMUM, FLUSH MOUNT

	LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED	
②	LTG BRM, GAR, DR	8		20	12	1			2	12	20	12		RECEPTS BRS 2 & 3	②
	HPOU-2		19	25	10	3			4	12	20		11	RECEPTS HALL	②
		19							6	12	20	10		GARAGE DOOR OPENER	②
	UNIT HEATER GARAGE		4	20	12	7			8	6	60		33	HPIU-2	
		4										33			
	RECEPT BATHRM		2	20	12	11			12	12	20		10	GARAGE DOOR OPENER	②
②	OUTSIDE LIGHTS	2		20		13			14	12	20	5		RECEPT GARAGE	
	SPARE			20		15			16		20			SPARE	
	SPARE			20		17			18		20			SPARE	
	SPARE			20		19			20		20			SPARE	
	TOTAL	33	25									60	54	TOTAL	

TOTAL CONNECTED AMPS A: 93 B: 79

① NEW PANELBOARD "A1" SCHEDULE

225 A. MCB, 120/240 V., 1 PHASE, 3 WIRE, 10 KAIC MINIMUM, FLUSH MOUNT ④

	LOAD SERVED	LOAD (AMPS) A	LOAD (AMPS) B	BKR. TRIP	WIRE SIZE	CKT. NO.	PHASE A	PHASE B	CKT. NO.	WIRE SIZE	BKR. TRIP	LOAD (AMPS) A	LOAD (AMPS) B	LOAD SERVED	
②	LTG KIT, GAR, DR	8		20	12	1			2	12	20	12		RECEPTS BR4 STORAGE	②
②	RECEPTS FAMR		12	20	12	3			4	12	20		12	RECEPTS BR2, MBR	②
②	LTG EXTERIOR	5		20	12	5			6	12	20	11		RECEPTS BR/DEN BATH	②
③	DISHWASHER		9	20	12	7			8	12	20		7	RECEPTS KIT	②
③	GARBAGE DISPOSAL	6		20	12	9			10	12	20	11		RECEPTS LR, DR, KIT	②
	REFRIGERATOR		8	20	12	11			12	12	20		9	RECEPTS KIT	②
③	WASHER	8		20	12	13			14	12	20	7		RECEPTS GAR	
	DRYER		21	30	10	15			16		20		2	RECEPT BATHRM	
		21							18	12	20	3		FIRE ALARM	②⑤
	RANGE		34	50	6	19			20	12	20		12	MICROWAVE/RANGE HD	②
		34							22	12	20	3		RECEPTS UTILITY	②
	WATER HEATER		19	30	10	23			24	10	30		19	HPOU-1	
		19										19			
	HPIU-1 8KW		33	50	6	27			28	2	100		79	PANEL A2 FEED	④
		33										93			
②	LTG LR DR DEN BRM		3	20	12	31			32	12	20			SURGE PROT. DEVICE	
	SPACE ONLY					33									
	SPACE ONLY					35			36					SPACE ONLY	
	SPACE ONLY					37			38					SPACE ONLY	
	SPACE ONLY					39			40					SPACE ONLY	
	TOTAL	134	139									159	140	TOTAL	

TOTAL CONNECTED AMPS A: 293 B: 279

NOTES

① PROVIDE NEW CIRCUIT BREAKERS IN NEW PANEL AS INDICATED.

② PROVIDE COMBINATION ARC-FAULT CIRCUIT BREAKER AS INDICATED.

③ PROVIDE DUAL-FUNCTION COMBINATION TYPE ARC-FAULT/ CLASS A GROUND-FAULT CIRCUIT BREAKER AS INDICATED. BREAKER SHALL FIT IN A SINGLE SPACE.

④ PROVIDE 100 AMP 240 VOLT, SINGLE PHASE, 20 CIRCUIT, SUB FEED PANEL "A2".

⑤ PROVIDE "LOCK-ON" TYPE CIRCUIT BREAKER WITH RED HANDLE.

⑥ PROVIDE CIRCUIT BREAKERS WITH CLASS A GROUND-FAULT CIRCUIT BREAKER AS INDICATED.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES WED DRW WED CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
UNIT A
PANELBOARD SCHEDULES

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

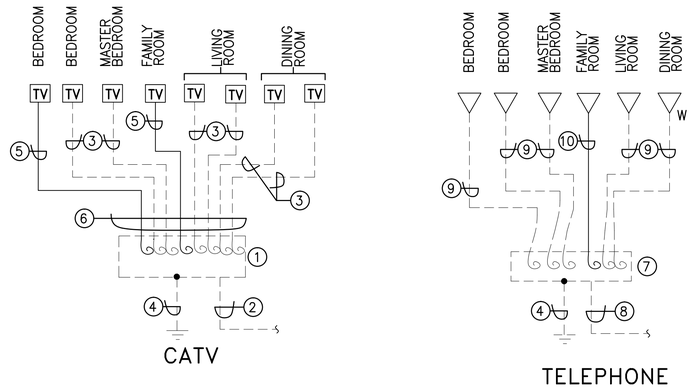
NAVFAC DRAWING NO. 12708368

SHEET 116 OF 120

E-601

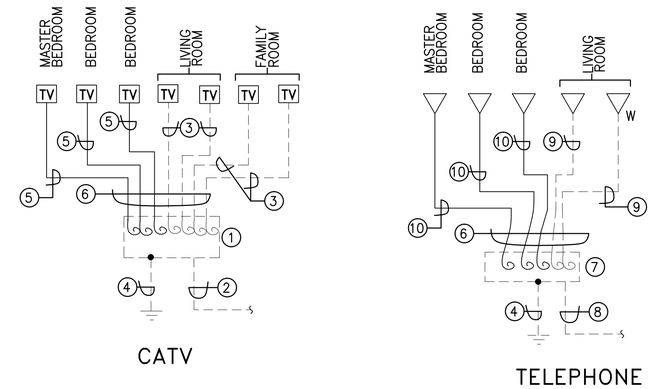
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLoneRenovationsConversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-601.dwg LAYOUT NAME: E-601 PLOTTED: Thursday, December 03, 2015 - 3:02pm USER: william.e.denny



UNIT D – CATV/TELEPHONE RISER DIAGRAMS

NOT TO SCALE

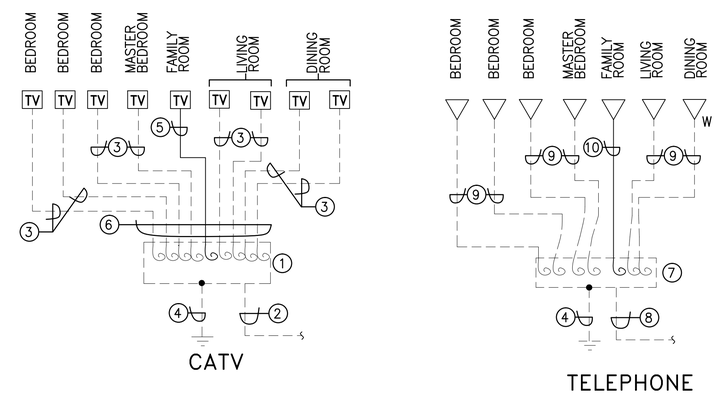


UNIT B– CATV/TELEPHONE RISER DIAGRAMS

NOT TO SCALE

CATV AND TELEPHONE RISER NOTES

1. EXISTING CATV UTILITY INTERFACE BOX. PROVIDE CONNECTORS ON NEW CABLE FOR TESTING PURPOSES.
2. EXISTING UTILITY CATV UNDERGROUND SERVICE.
3. EXISTING CATV CABLE.
4. EXISTING GROUNDING ELECTODE CONDUCTOR. BOND TO SERVICE GROUNDING ELECTRODE.
5. CATV CABLE (RG–6, 90% SHIELDED) RUN CONCEALED BETWEEN OUTLET AND INTERFACE BOX LOCATED ON OUTSIDE OF UNIT. LEAVE 36 INCEHS OF SLACK AT INTERFACE BOX FOR TERMINATION BY CABLE COMPANY. ROUTE EXPOSED IN THE ATTIC USING J–HOOKS. STUB 1/2" METALLIC CONDUIT FROM OUTLET BOX INTO ATTIC SPACE WITH A 90 DEGREE ELBOW AND BUSH END.
6. ALL CABLES SHALL PENETRATE OUTSIDE WALL AT SAME LOCATION.
7. EXISTING TELEPHONE UTILITY NTERFACE BOX. PROVIDE CONNECTORS ON NEW CABLE FOR TESTING PURPOSES.
8. EXISTING UTILITY TELEPHONE UNDERGROUND SERVICE.
9. EXISTING TELEPHONE CABLE.
10. TELEPHONE CABLE (4 PAIR, 24 GAUGE) RUN CONCEALED BETWEEN OUTLET AND INTERFACE BOX LOCATED OUTSIDE OF UNIT. LEAVE 36 INCEHS OF SLACK AT INTERFACE BOX FOR TERMINATION BY TELEPHONE COMPANY. ROUTE EXPOSED IN THE ATTIC USING J–HOOKS. STUB 1/2" METALLIC CONDUIT FROM OUTLET BOX INTO ATTIC SPACE WITH A 90 DEGREE ELBOW AND BUSH END.



UNIT C – CATV/TELEPHONE RISER DIAGRAMS

NOT TO SCALE

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT
SURFACE COMBAT SYSTEM CENTER
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

UNIT B, C, AND D
CATV AND TELEPHONE RISER DIAGRAMS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708369

SHEET 117 OF 120

E-602

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\WLCON\2016_1366573_P1602_DRB_SleepterLaneRenovationsNConversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-602.dwg LAYOUT NAME: E-602 PLOTTED: Wednesday, December 02, 2015 - 10:24am USER: charles.shaffer

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	FIXTURE PLATE/ DETAIL	FIXTURE TYPE	PLATE/ DETAIL SHEET	NUMBER AND TYPE OF LAMPS	FIXTURE WATTS	FIXTURE VOLTAGE	MOUNTING	REMARKS	FIXTURE DESCRIPTION
A	A5 E-702		E-702	LED	25	120	WALL	4	DECORATIVE EXTERIOR WALL SCONCE – LED
B1	A1 E-701		E-701	LED	16	120	SURFACE/STEM	1 9	INTERIOR CEILING FAN/LIGHT
B2	A4 E-702		E-702	LED	16	120	SURFACE	1 9	EXTERIOR CEILING FAN/LIGHT
C	A2 E-701	DAMP LOCATION	E-701	LED	48	120	SURFACE CEILING	4	LED WRAPAROUND – UTILITY AREAS
D	A5 E-701		E-701	LED	12	120	SURFACE CEILING	4	OPAL ACRYLIC CEILING–MOUNTED LED
E	C2 E-702		E-702	LED	12	120	WALL MTD. 8'–0" A.F.F.	4 5	EXTERIOR LED UTILITY WALL LUMINAIRE
F1	C2 E-701	TYPE A	E-701	LED	20	120	SURFACE CEILING	4	DECORATIVE SURFACE BOWL LIGHT – LED
F2	C2 E-701	TYPE B	E-701	LED	30	120	SURFACE CEILING	4	DECORATIVE SURFACE BOWL LIGHT– LED
G	C1 E-701	WET LOCATION	E-701	LED	22	120	RECESSED CEILING	3 7	RECESSED SHOWER LIGHT – LED
H1	C4 E-701	TYPE A	E-701	LED	21	120	WALL MOUNTED	4	VANITY LIGHT – LED
H2	C4 E-701	TYPE B	E-701	LED	14	120	WALL MOUNTED	4	VANITY LIGHT – LED
I	A4 E-701	DAMP LOCATION	E-701	LED	38	120	SURFACE CEILING	4	FIBERGLASS HOUSING DAMP/WET LOCATION LED
J	C5 E-702		E-702	LED	25	120	POST–TOP	5 6	DECORATIVE EXTERIOR POST–TOP – LED
K	C5 E-701	TYPE A	E-701	LED	18	120	RECESSED CEILING	2 3	RECESSED OPEN DOWNLIGHT LED
L	A2 E-702	TYPE C	E-702	LED	10	120	SURFACE	8	UNDER–CABINET TASK LIGHT LED
O	C4 E-702		E-702	LED	22	120	WALL	4	MOTION SENSING FLOODLIGHT – LED

LIGHTING FIXTURE SCHEDULE NOTES:

1. SURFACE MOUNT ON FLUSH MOUNTED OUTLET BOX. PROVIDE OUTLET BOX, INSULATED CIRCUIT CONDUCTOR COLLAR, AND LUMINAIRE/FAN SUPPORT FRAMING PER NEC 314.27(C).
2. PROVIDE 0–10V DIMMING DRIVER SUITABLE FOR OPERATION DOWN TO 10% LIGHT OUTPUT.
3. PROVIDE IC–RATED CONSTRUCTION ON FIXTURE OR PROVIDE AN IC–RATED ENCLOSURE SUITABLE FOR USE WITH FIXTURE INSTALLATION.
4. MOUNT NEW FIXTURE ON EXISTING OUTLET BOX, WHERE FEASIBLE. PROVIDE FLUSH OUTLET BOX OTHERWISE.
5. PROVIDE INTEGRAL 120V PHOTOCELL.
6. PROVIDE BLACK FINISH TO MATCH POLE. WHERE MOUNTED TO AN EXISTING POST/POLE, PROVIDE SUITABLE MOUNTING HARDWARE.
7. PROVIDE RECESSED FRESNEL GLASS LENS WITH WHITE SPLAY.
8. CONCEAL SPLICE BOX WITH 24V TRANSFORMER AND CONNECTOR CORD BENEATH CABINET.
9. PROVIDE CONCEALED FAN/LIGHT CONTROL/DIMMER CONDUTORS/CABLE TO SUPPORT CONTROLLER SUPPLIED WITH THE UNIT.

SYM	DESCRIPTION	DATE	APPR

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW RLW

FIRE PROTECTION DPS DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

LIGHTING FIXTURE SCHEDULE

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708370

SHEET 118 OF 120

E-700

DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_Sheetrock\Renovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-700.dwg LAYOUT NAME: E-700 PLOTTED: Wednesday, December 02, 2015 - 8:26am USER: charles.shoeffer

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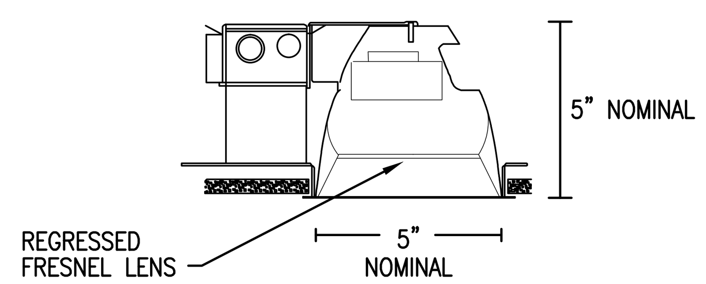


LUMINAIRE REQUIREMENTS:

1. HOUSING – ONE-PIECE, DIE-STAMPED, COLD ROLLED STEEL OR ACRYLIC-ENAMELED ALUMINUM. PROVIDE WITH PRE-WIRED JUNCTION BOX HAVING SNAP-ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW CEILING SHALL BE PROVIDED THROUGH FIXTURE AFTER REMOVAL OF REFLECTOR.
2. OPTICAL SYSTEM – ONE PIECE, DIE-CAST HOUSING WITH WHITE INTERRIOR DOME REFLECTOR AND REGRESSED FRESNAL LENS.
3. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION.
4. CERTIFICATION – UL LISTED AND LABELED WET LOCATION.
5. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

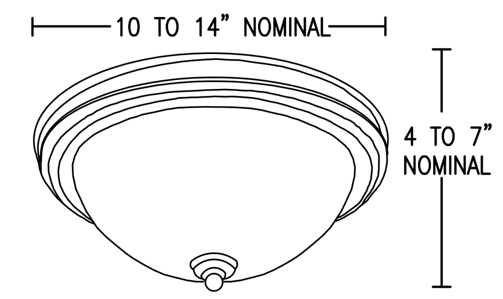
NOMINAL 22W INPUT WITH
661 DELIVERED LUMENS OUTPUT

RCR	CU
1	1.10
2	1.02
3	0.94
4	0.88

DELIVERED LUMENS PER WATT – 30.0 MINIMUM

G

C1 RECESSED SHOWER LIGHT- LED
SCALE: NONE E-700



LUMINAIRE REQUIREMENTS:

1. HOUSING – DECO STYLED ROUND WITH MATCHING CENTER FINIAL. BACK PAN DESIGNED FOR DIRECT MOUNTING TO OUTLET BOX.
2. FINISH – ELECTROPLATED OR WHITE HIGH REFLECTANCE POWDER COAT. CHOICE OF WHITE, BRUSHED NICKEL OR BRONZE FINISH.
3. DIFFUSER – TRANSLUCENT UV STABALIZED WHITE GLASS DIFFUSER.
4. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION.
5. CERTIFICATION – UL LISTED AND LABELED.
6. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

TYPE A: NOMINAL 10" DIAMETER (F1)
NOMINAL 20W INPUT WITH
960 DELIVERED LUMENS OUTPUT

RCR	CU
1	0.97
2	0.83
3	0.72
4	0.63

DELIVERED LUMENS PER WATT – 48.0 MINIMUM

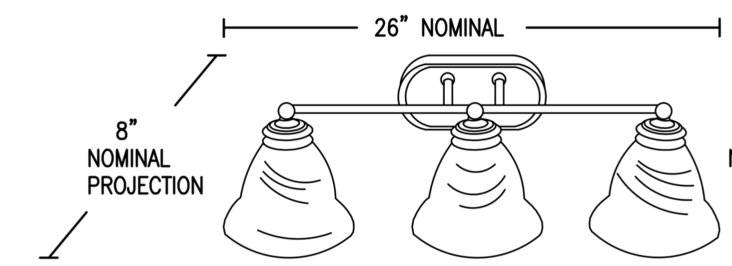
TYPE B: NOMINAL 14" DIAMETER (F2)
NOMINAL 30W INPUT WITH
1500 DELIVERED LUMENS OUTPUT

RCR	CU
1	0.98
2	0.84
3	0.73
4	0.64

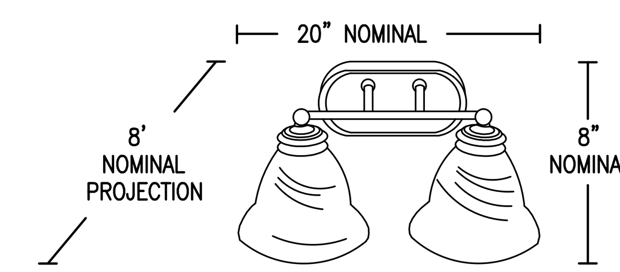
DELIVERED LUMENS PER WATT – 52.0 MINIMUM

F1 F2

C2 DECORATIVE SURFACE BOWL LIGHT LED
SCALE: NONE E-700



TYPE A (H1)



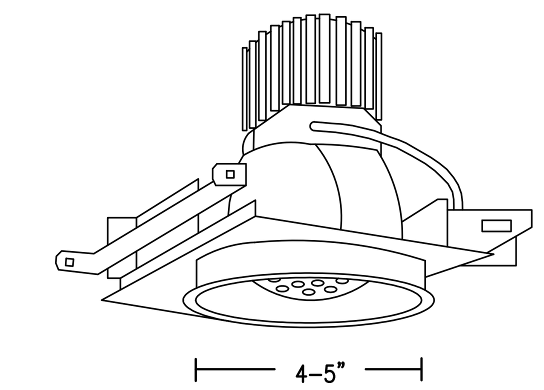
TYPE B (H2)

LUMINAIRE REQUIREMENTS:

1. HOUSING – DECO STYLED ROUND WITH MATCHING CENTER FINIAL. BACK PAN DESIGNED FOR DIRECT MOUNTING TO OUTLET BOX.
2. FINISH – ELECTROPLATED BRUSHED NICKEL.
3. DIFFUSER – ETCHED WHITE GLASS DIFFUSER.
4. LAMPS – THREE SELF-DRIVER LED 2-PRONG ELECTRONIC GU-24 BASES. PROVIDE WATTAGE(S) AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE. LAMP/DRIVER SHALL DELIVER A A MINIMUM OF 65 DELIVERED LUMENS PER WATT AT A COLOR TEMPERATURE OF 3000K. LIFETIME RATING OF 25,000 HOURS MINIMUM.
5. CERTIFICATION – UL LISTED AND LABELED.

H1 H2

C4 VANITY LIGHT LED
SCALE: NONE E-700



LUMINAIRE REQUIREMENTS:

1. HOUSING – ONE-PIECE, DIE-STAMPED, COLD ROLLED STEEL OR ACRYLIC-ENAMELED ALUMINUM. PROVIDE WITH PRE-WIRED JUNCTION BOX HAVING SNAP-ON ACCESS COVER. ACCESS TO JUNCTION BOX FROM BELOW CEILING SHALL BE PROVIDED THROUGH FIXTURE AFTER REMOVAL OF REFLECTOR.
2. OPTICAL SYSTEM – OPEN SELF-FLANGED SEMI-SPECULAR LOWER REFLECTOR WITH 45° CUTOFF TO SOURCE AND SOURCE IMAGE.
3. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 60,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION. WHERE INDICATED PROVIDE 0-10V DIMMING DRIVER.
4. CERTIFICATION – UL LISTED AND LABELED.
5. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

TYPE A: (K)
NOMINAL 18W INPUT WITH
1113 DELIVERED LUMENS OUTPUT

RCR	CU
1	1.11
2	1.03
3	0.97
4	0.90

DELIVERED LUMENS PER WATT – 60.0 MINIMUM

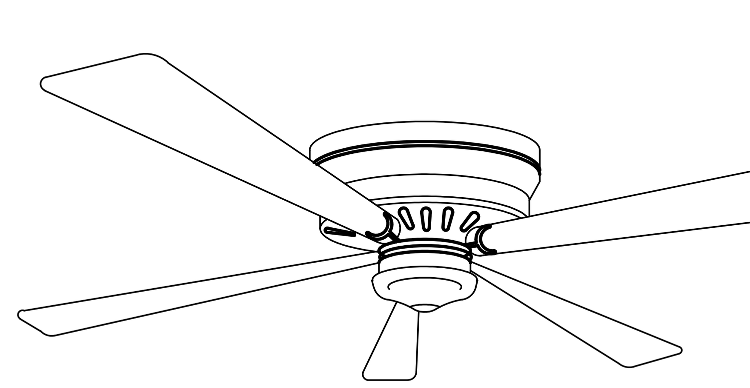
TYPE B:
NOMINAL 25W INPUT WITH
1538 DELIVERED LUMENS OUTPUT

RCR	CU
1	1.11
2	1.04
3	0.97
4	0.91

DELIVERED LUMENS PER WATT – 60.0 MINIMUM

K

C5 RECESSED OPEN DOWNLIGHT LED
SCALE: NONE E-700

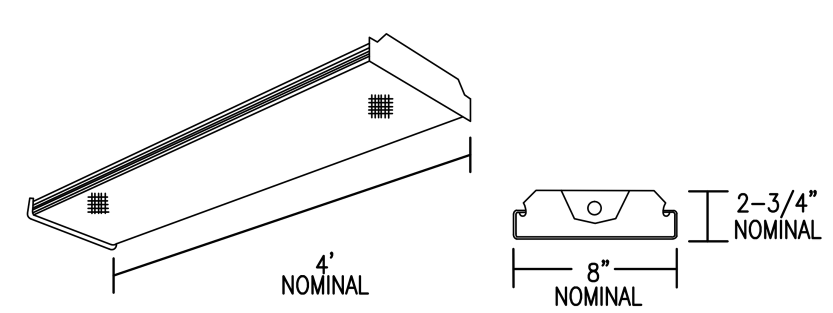


FAN AND LIGHT REQUIREMENTS

1. LOW PROFILE 5-BLADE, ALL METAL HOUSING, DESIGNED FOR QUIET OPERATION IN BEDROOMS.
2. FINISH – BRUSHED NICKEL OR STAINLESS STEEL.
3. BLADES – REVERSIBLE WHITE/LIGHT OAK SOLID WOOD BLADES, 44 INCH BLADE DIAMETER
4. MOTOR – REVERSIBLE 3-SPEED BALL BEARING MOTOR W/PERMANENTLY SEALED PRECISION BEARINGS. HIGH SPEED PERFORMANCE FAN RATED 11000CFM, 120VAC 90W.
5. LIGHT KIT – ENERGY EFFICIENT LOW PROFILE LIGHT W/FROSTED BOWL, 16 WATT DIMMABLE LED.
6. MOUNTING – PROVIDE CEILING FAN SUPPORTED WITHOUT DEPENDING ON THE OUTLET BOX FOR SOLE SUPPORT.
7. ACCESSORIES – PROVIDE WITH WALL MOUNT CONTROL (ALL-FAN/LIGHT CONTROL) FOR COMPLETE FAN/LIGHT OPERATION WITH SEPARATE BUTTONS FOR 3 FAN SPEEDS, INSTANT OFF, AND 20% LIGHT DIMMER. PROVIDE POWER AND CONTROL CABLE TO ENSURE OPERATION.
8. ENTIRE ASSEMBLY SHALL BE A PRODUCT OF A SINGLE MANUFACTURER, MADE IN USA, UL LISTED, AND CERTIFIED BY THE HOME VENTILATING INSTITUTE.
9. PROVIDE WITH INTERNAL GREEN GROUNDING SCREW.

B1

A1 INTERIOR CEILING FAN/LIGHT
SCALE: NONE E-700



LUMINAIRE REQUIREMENTS:

1. HOUSING – DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY. ENDCAPS SHALL BE SAME MATERIAL AS HOUSING, SECURED WITH TABS, SCREWS OR RIVETS. FIXTURE SHALL NOT PERMANENTLY DEFORM OUT OF "SQUARE" WHEN PICKED UP FROM ANY CORNER.
2. FINISH – MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
3. LENS – 100% UV STABALIZED ACRYLIC FROSTED WITH A NOMINAL 0.125" THICKNESS.
4. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION.
5. CERTIFICATION – UL LISTED AND LABELED.
6. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

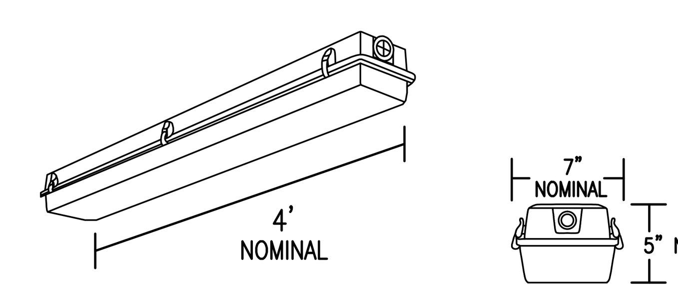
NOMINAL 50W INPUT WITH
4050 DELIVERED LUMENS OUTPUT

RCR	CU
1	1.02
2	0.90
3	0.80
4	0.72

DELIVERED LUMENS PER WATT – 77.0 MINIMUM

C

A2 LED WRAPAROUND - UTILITY AREAS
SCALE: NONE E-700



LUMINAIRE REQUIREMENTS:

1. HOUSING – ONE-PIECE, IMPACT-RESISTANT, FIBERGLASS REINFORCED POLYESTER WITH ENCLOSED COLD-ROLLED STEEL WIREWAY.
2. FINISH – STEEL REFLECTOR WITH MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
3. LENS – 100% CLEAR ACRYLIC/DR OPTICAL DIFFUSER. STIPPLED INTERIOR SURFACES AND SMOOTH EXTERIOR. CLOSED CELL NEOPRENE GASKET WITH CAPTIVE NONMETALLIC, SNAP ACTION CAM LATCHES TO SECURE LENS TO HOUSING.
4. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION.
5. CERTIFICATION – UL LISTED AND LABELED. SUITABLE FOR DAMP OR WET LOCATION AS DESIGNATED IN LIGHTING FIXTURE SCHEDULE.
6. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

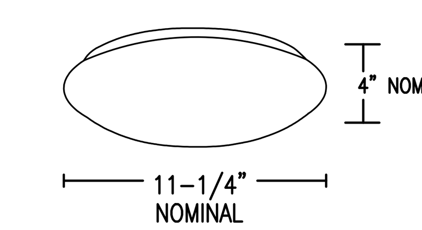
NOMINAL 38W INPUT WITH
3426 DELIVERED LUMENS OUTPUT

RCR	CU
1	1.02
2	0.89
3	0.78
4	0.69

DELIVERED LUMENS PER WATT – 85.6 MINIMUM

I

A4 FIBERGLASS HOUSING DAMP/WET LOCATION LED
SCALE: NONE E-700



LUMINAIRE REQUIREMENTS:

1. HOUSING – COLLED ROLLED 22 GAUGE STEEL, FORMED IN A DIE WITH NUT INSERTS FOR ATTACHING THE DIFFUSER. PAN DESIGNED FOR DIRECT MOUNTING TO OUTLET BOX.
2. FINISH – MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH BAKED WHITE ENAMEL FINISH.
3. DIFFUSER – TRANSLUCENT UV STABALIZED WHITE ACRYLIC DIFFUSER.
4. ELECTRONIC DRIVER – IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM. SOUND RATING "A" WITH LESS THAN 20% THD, MAXIMUM 530mA INPUT CURRENT AT 120V, MINIMUM 0.9 POWER FACTOR, INHERENT THERMAL PROTECTION, SHORT-CIRCUIT AND OVERLOAD PROTECTION, AND COMPLIES WITH ANSI C62.41 CATEGORY A TRANSIENT PROTECTION.
5. CERTIFICATION – UL LISTED AND LABELED.
6. PHOTOMETRICS – MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

NOMINAL 12 TO 16W INPUT WITH
1380 DELIVERED LUMENS OUTPUT

RCR	CU
1	0.94
2	0.80
3	0.70
4	0.61

DELIVERED LUMENS PER WATT – 68.0 MINIMUM

D

A5 OPAL ACRYLIC CEILING MOUNTED LED
SCALE: NONE E-700

SYM | DESCRIPTION | DATE | APPR
SEAL
A/E INFO
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: HERM ROLLINGS
SATISFACTORY TO DATE MM/DD/YY
DES CTS DRW CTS CHK KDL
JTL/APK JTL/DAY
BRANCH MANAGER KDL
CHIEF ENG/ARCH RLW RLW
FIRE PROTECTION DPS DPS
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT NORFOLK NAVAL STATION
SURFACE COMBAT SYSTEM CENTER WALLOPS ISLAND, VA
P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING
INTERIOR LIGHTING PLATES AND DETAILS
SCALE: AS NOTED
EPROJECT NO.: 1366573
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12708371
SHEET 119 OF 120
E-701
DRAWFORM REVISION: 10 MARCH 2009

FILE NAME: P:\VA\Wallops Island\MILCON\2016_1366573_P1602_DBB_SkeeterLaneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-701.dwg LAYOUT NAME: E-701 PLOTTED: Thursday, December 03, 2015 - 12:03pm USER: charles.shaeffer

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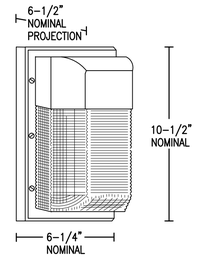


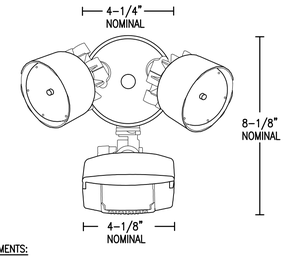
LUMINAIRE REQUIREMENTS:

1. HOUSING – COLD-ROLLED STEEL PAN WITH A HIGH REFLECTANCE WHITE PAINT. HOUSING IS A FORMED ALUMINUM DESIGN, WELDED FOR STABILITY.
2. FINISH – TGIC THERMOSET POLYESTER POWDERCOAT PAINT – BRONZE.
3. DIFFUSER – INJECTION MOLDED CLEAR PRISMATIC POLYCARBONATE, UV STABILIZED MATERIAL THAT IS RESISTANT TO DAMAGE DUE TO A NOMINAL 0.08" THICKNESS. PROVIDE PAINTED CUTOFF HOOD TO CONTROL LIGHT DISTRIBUTION.
4. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120/277V, 50/60 HZ. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 90 LM/W AT MAXIMUM 530 mA OPERATING CURRENT. INPUT POWER SHALL BE A NOMINAL 12 INPUT WATTS.
5. LED OPTICAL ASSEMBLY– NUMBER OF LED ARRAYS SHALL VARY TO ACCOMMODATE DESIRED LUMINAIRE OUTPUT. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURES (CCT) OF 4000–4500 DEGREES K.
6. CERTIFICATION – UL AND/OR ETL LISTED WET–LOCATION, AND RoHS COMPLIANT.
7. OPTIONS – FINISH COLOR AND INTEGRAL PHOTOCELL.
8. OTHER – THE ABOVE SKETCH IS A NON–PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

E

C2 EXTERIOR LED UTILITY WALL LIGHT

SCALE: NONE E–700



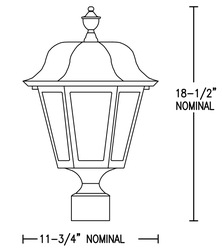
LUMINAIRE REQUIREMENTS:

1. HOUSING – TWO TOOL–FREE ADJUSTABLE HEADS ALLOW FOR EASY AIMING UP/DOWN OR SIDE TO SIDE. RUGGED CAST ALUMINUM, CORROSION RESISTANT HOUSING.
2. FINISH – BRONZE OR WHITE.
3. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120/277 VOLTS, 50/60 HZ. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD.
4. LED OPTICAL ASSEMBLY – HIGH PERFORMANCE 5000 CCT LEDs PRODUCE A NOMINAL 1222 LUMENS AND MAINTAIN 70% OF LIGHT OUTPUT AT 50,000 HOURS OF SERVICE.
5. CERTIFICATION – UL AND/OR ETL LISTED FOR WET LOCATIONS AND RoHS COMPLIANT.
6. MOTION SENSOR – DUAL ARRAY MOTION SENSOR PROVIDES 180 DEGREE DETECTION WITH UP TO 70 FEET FORWARD RANGE.
7. OTHER – THE ABOVE SKETCH IS A NON–PROPRIETY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

O

C4 MOTION SENSING FLOODLIGHT - LED

SCALE: NONE E–700



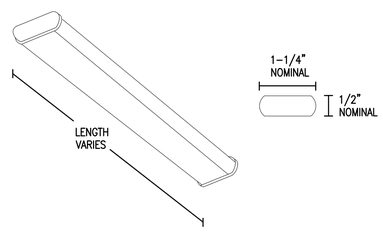
LUMINAIRE REQUIREMENTS:

1. HOUSING – CAST ALUMINUM FINIAL. CAST ALUMINUM HEX ROOF SECURED TO CAGE WITH THUMBSCREWS. CAST ALUMINUM HEX CAGE WITH CONE BOTTOM.
2. FINISH – TGIC THERMOSET POLYESTER POWDERCOAT PAINT (BLACK).
3. PANELS/LENS – SET OF OPAL ACRYLIC PANELS.
4. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120/277V, 50/60 HZ. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 80 LM/W AT MAXIMUM 530 mA OPERATING CURRENT. INPUT POWER SHALL BE A NOMINAL 25 INPUT WATTS.
5. LED OPTICAL ASSEMBLY– NUMBER OF LED ARRAYS SHALL VARY TO ACCOMMODATE DESIRED LUMINAIRE OUTPUT. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURES (CCT) OF 4000–4500 DEGREES K.
6. SURGE PROTECTION – 6 kV MINIMUM, COMPLIANT WITH ANSI C62.41.2.
7. CERTIFICATION – UL AND/OR ETL LISTED WET–LOCATION, AND RoHS COMPLIANT.
8. OPTIONS – FINISH COLOR, PHOTOCELL, AND 0–10 VOLT DIMMING DRIVER.
9. OTHER – THE ABOVE SKETCH IS A NON–PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

J

C5 DECORATIVE EXTERIOR POST-TOP LED

SCALE: NONE E–700



LUMINAIRE REQUIREMENTS:

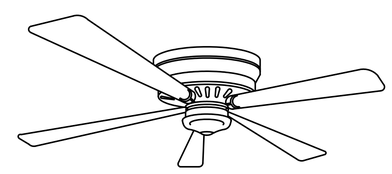
1. HOUSING – HOUSING DURABLE ALUMINUM CONSTRUCTION.
2. FINISH – MULTI–STAGE PHOSPAHTE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH.
3. DIFFUSER – DURABLE CLEAR ACRYLIC OR POLYCARBONATE.
4. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120V, 50/60 HZ. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. FIXTURE SHALL MEET IES L80 PERFORMANCE FOR 50,000 HOURS MINIMUM.
5. DIRECT WIRE – HARDWIRE FIXTURE FOR 120V OPERATION. PROVIDE SPLICEBOX W/24V TRANSFORMER AND 24" CONNECTOR CORD. PROVIDE POWER DISTRIBUTION HUB, LINKING CORDS AND END ROW CONNECTORS TO ACHIEVE FIXTURE PATTERN INDICATED.
6. CERTIFICATION – UL LISTED AND LABELED.
7. FIXTURE TYPES –
   TYPE A – 9" NOMINAL LENGTH WITH APPROXIMATELY 3 LEDs @ 5.4 INPUT WATTS.
   TYPE B – 12" NOMINAL LENGTH WITH APPROXIMATELY 4 LEDs @ 7.1 INPUT WATTS.
   TYPE C – 18" NOMINAL LENGTH WITH APPROXIMATELY 6 LEDs @ 9.7 INPUT WATTS.
   TYPE D – 24" NOMINAL LENGTH WITH APPROXIMATELY 8 LEDs @ 13.1 INPUT WATTS.
8. MINIMUM EFFICIENCY (DELIVERED LUMEN/INPUT WATT) SHALL BE 32 WITH THE FOLLOWING LIGHT OUTPUTS AT 3500 DEG KELVIN CCT AND 85 CRI MINIMUM.

   TYPE A – @175 DELIVERED LUMENS
   TYPE B – @239 DELIVERED LUMENS
   TYPE C – @353 DELIVERED LUMENS
   TYPE D – @441 DELIVERED LUMENS
9. PROVIDE ROCKER ON/OFF SWITCH.

L

A2 UNDER-CABINET TASK LIGHT LED

SCALE: NONE E–700



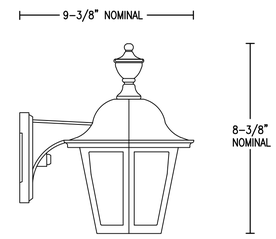
FAN AND LIGHT REQUIREMENTS

1. LOW PROFILE 5–BLADE, ALL METAL HOUSING, DESIGNED FOR QUIET OPERATION ON OUTDOOR PATIO.
2. FINISH – WHITE
3. BLADES – REVERSIBLE WHITE/LIGHT OAK SOLID WOOD BLADES, 44 INCH BLADE DIAMETER
4. MOTOR – REVERSIBLE 3–SPEED BALL BEARING MOTOR W/PERMANENTLY SEALED PRECISION BEARINGS. HIGH SPEED PERFORMANCE FAN RATED 11000CFM, 120VAC 90W.
5. LIGHT KIT – ENERGY EFFICIENT LOW PROFILE LIGHT W/FROSTED BOWL, 16 WATT DIMMABLE LED.
6. MOUNTING – PROVIDE CEILING FAN SUPPORTED WITHOUT DEPENDING ON THE OUTLET BOX FOR SOLE SUPPORT.
7. ACCESSORIES – PROVIDE WITH WALL MOUNT CONTROL (ALL–FAN/LIGHT CONTROL) FOR COMPLETE FAN/LIGHT OPERATION WITH SEPARATE BUTTONS FOR 3 FAN SPEEDS, INSTANT OFF, AND 20% LIGHT DIMMER. PROVIDE POWER AND CONTROL CABLE TO ENSURE OPERATION.
8. ENTIRE ASSEMBLY SHALL BE A PRODUCT OF A SINGLE MANUFACTURER, MADE IN USA, UL LISTED, AND CERTIFIED BY THE HOME VENTILATING INSTITUTE.
9. PROVIDE WITH INTERNAL GREEN GROUNDING SCREW.

B2

A4 EXTERIOR CEILING FAN/LIGHT

SCALE: NONE E–700



LUMINAIRE REQUIREMENTS:

1. HOUSING – CAST ALUMINUM FINIAL. CAST ALUMINUM HEX ROOF SECURED TO CAGE WITH THUMBSCREWS. CAST ALUMINUM HEX CAGE WITH CONE BOTTOM.
2. FINISH – TGIC THERMOSET POLYESTER POWDERCOAT PAINT (BLACK).
3. PANELS/LENS – SET OF 6 CLEAR ACRYLIC PANELS.
4. POWER SUPPLY/LED DRIVER – CLASS 1 DRIVER SHALL OPERATE AT 120/277V, 50/60 HZ. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICAY SHALL BE 80 LM/W AT MAXIMUM 530 mA OPERATING CURRENT. INPUT POWER SHALL BE A NOMINAL 25 INPUT WATTS.
5. LED OPTICAL ASSEMBLY– NUMBER OF LED ARRAYS SHALL VARY TO ACCOMMODATE DESIRED LUMINAIRE OUTPUT. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURES (CCT) OF 4000–4500 DEGREES K.
6. SURGE PROTECTION – 6 kV MINIMUM, COMPLIANT WITH ANSI C62.41.2.
7. CERTIFICATION – UL AND/OR ETL LISTED WET–LOCATION, AND RoHS COMPLIANT.
8. OPTIONS – FINISH COLOR, PHOTOCELL, AND 0–10 VOLT DIMMING DRIVER.
9. OTHER – THE ABOVE SKETCH IS A NON–PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

A

A5 DECORATIVE EXTERIOR WALL SCONCE - LED

SCALE: NONE E–700

SYM	DESCRIPTION	DATE	APPR

NAVFAC

SEAL

A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: HERM ROLLINGS

SATISFACTORY TO DATE MM/DD/YY

DES CTS DRW CTS CHK KDL

JTL/APK JTL/DAY

BRANCH MANAGER KDL

CHIEF ENG/ARCH RLW

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
HAMPTON ROADS IPT

NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK NAVAL STATION

SURFACE COMBAT SYSTEM CENTER
WALLOPS ISLAND, VA

P1602 - CONVERSION AND RENOVATION OF MILITARY FAMILY HOUSING

INTERIOR AND EXTERIOR LIGHTING DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1366573

CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12708372

SHEET 120 OF 120

E-702

DRAWFORM REVISION: 10 MARCH 2009

EXTERIOR CEILING FAN/LIGHT

DECORATIVE EXTERIOR WALL SCONCE – LED

FILE NAME: P:\VA\Wallops Island\MLCON\2016_1366573_P1602_DBB_SixetelLoneRenovation&Conversion\B_Design\Drawings\Sheet Files\14_Electrical\P1602-1366573-E-702.dwg LAYOUT NAME: E-702 PLOTTED: Thursday, December 03, 2015 - 12:24pm USER: charles.shaeffer