Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 09/29/14

CONSULTANTS

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Nathan Clifford
Falmouth ST.
Portland, Maine

OWNER

STATE OF MAINE
WESLEY PARKIS
11041
LICENSED
PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION
REV. 0	7/19/13	Final Drawings

SCALE: 1/4" = 1'
PROJECT NO: ----
CAD DWG FILE: NC M&P BASEMENT.DWG
DRAWN BY: WPS
CHK'D BY:
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SHEET TITLE

Basement Floor HVAC

M-101

SHEET SHEET INDEX OF TOTAL SHEETS

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Inspections Division
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Date: 09/29/14

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STATE OF MAINE
WESLEY
JURCINS
11041
LICENSED
PROFESSIONAL ENGINEER

MARK	DATE	DESCRIPTION
REV. 0	7/19/13	Final Drawings

SCALE: 1/4" = 1'
PROJECT NO: ----
CAD DWG FILE: NC M&P BASEMENT.DWG
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SHEET TITLE
Basement Floor Heating Layout

M-102
SHEET SHEET INDEX OF TOTAL SHEETS

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Inspections Division
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Date: 09/29/14

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11041
LICENSED
PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/16" = 1'

PROJECT NO: ----

CAD DWG FILE: NC M&P 1ST FLOOR.DWG

DRAWN BY: WPS

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SHEET TITLE

1st Floor HVAC

M-201

SHEET SHEET INDEX OF TOTAL SHEETS

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Inspections Division
Approved with Conditions

Date: 09/29/14

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PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/4 = 1'

PROJECT NO: ----

CAD DWG FILE: NC M&P 1ST FLOOR.DWG

DRAWN BY: WPS

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SHEET TITLE

1st Floor Heating Layout

M-202

SHEET SHEET INDEX OF TOTAL SHEETS

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/29/14

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WESLEY
SURDIS
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PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/16" = 1'
PROJECT NO: ----
CAD DWG FILE: NC M&P 2ND FLOOR.DWG
DRAWN BY: WPS
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SHEET TITLE

2nd Floor HVAC

M-301

SHEET SHEET INDEX OF TOTAL SHEETS

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Inspections Division
Approved with Conditions

Date: 09/29/14

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LICENSED
PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/4 = 1'
PROJECT NO: ----
CAD DWG FILE: NC M&P 2ND FLOOR.DWG
DRAWN BY: WPS
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SHEET TITLE
2nd Floor Heating Layout

M-302

SHEET SHEET INDEX OF TOTAL SHEETS

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/29/14

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STATE OF MAINE
WESLEY
SIMONDS
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LICENSED
PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/16" = 1'

PROJECT NO: ----

CAD DWG FILE: NC M&P 3RD FLOOR.DWG

DRAWN BY: WPS

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SHEET TITLE

3rd Floor HVAC

M-401

SHEET SHEET INDEX OF TOTAL SHEETS

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/29/14

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WESLEY
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PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/16" = 1'

PROJECT NO: ----

CAD DWG FILE: NC M&P 3RD FLOOR.DWG

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SHEET TITLE

3rd Floor Heating Layout

M-402

SHEET SHEET INDEX OF TOTAL SHEETS

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Inspections Division
Approved with Conditions

Date: 09/29/14

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REV. 0		
MARK	DATE	DESCRIPTION

SCALE: 3/16 = 1'

PROJECT NO: ----

CAD DWG FILE: NC M&P ROOF.DWG

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SHEET TITLE

Roof Plan

M-500

SHEET SHEET INDEX OF TOTAL SHEETS

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/29/14

ELECTRIC HEATER SCHEDULE

TAG #	MANUFACTURER	MODEL	BTU/HR	KW	V/Ø	AMPS	LOCATION
CUH-1	Qmark	SSHO4008	13,650	4	208/1	19.2	FALMOUTH ST VESTIBULE
CUH-2	Qmark	SSHO4008	13,650	4	208/1	19.2	DEANE ST VESTIBULE
CUH-3	Qmark	SSHO4008	13,650	4	208/1	19.2	PLAYGROUND VESTIBULE
CUH-4	Qmark	SSHO4008	13,650	4	208/1	19.2	PAYSON ST VESTIBLULE
CUH-5	Qmark	SSHO4008	13,650	4	208/1	19.2	STAIR A
CUH-6	Qmark	SSHO4008	13,650	4	208/1	19.2	STAIR B

MINI - MULTI SPLIT OUTDOOR UNITS

QTY	Tag #	Manufacturer	Model	Cooling Capacity BTUH	Heating Capacity BTUH	SEER	V/Ø	MCA	MROPD	Areas Served
1	CU-104	Fujitsu	AOU48RLXFZ1	51100	57000	17	208/1	23.7	40	1st Floor Guest, 1,2,3 Corridor

MINI - MULTI SPLIT INDOOR UNITS

QTY	Tag #	Manufacturer	Model	Cooling Capacity BTUH	Heating Capacity BTUH	SEER	V/Ø	MCA	MROPD	Areas Served
2	EVAP. 1	Fujitsu	ASU9RLF	12000	13500	17	208/0	0.15		1st Floor Guest
3	EVAP. 2	Fujitsu	ASU12RLF	12000	13500	17	208/1	0.19		Corridor 1,2,3

FINTUBE PERFORMANCE SCHEDULE

TAG #	OUTPUT (MBH/FT) @ 180 F	FLOW RATE(GPM)	MOUNT'G HEIGHT(IN)	ENCLOSURE HEIGHT(IN)	ELEMENT LENGTH(FT)	ENCLOSURE LENGTH(FT)	TUBE SIZE(IN)	FINS/FT	VALVE TAG	BOD MODEL
FTR-1	900	4	0	-	*	**	3/4"	55	V-1	HAYDEN HEAT BASE 958-2

* - ELEMENT LENGTH SHALL BE AS REQUIRED TO MEET THE LOAD REQUIREMENTS INDICATED ON THE DRAWINGS

** - ENCLOSURE LENGTH SHALL BE ELEMENT LENGTH PLUS 12" OR WALL TO WALL

FAN SCHEDULE

TAG	SERVICE	MANUFACTURER	MODEL	CFM	EXTERNAL PD (INWG)	FAN RPM	SONES	ELECTRICAL HP	VOLT	PHASE	DRIVE	AMP	WATTS	DAMPER	DISCHARGE	ROOF OPENING	NOTES
EF-1	DRYER RISER 1	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-2	DRYER RISER 2	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-3	DRYER RISER 3	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-4	DRYER RISER 4	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-5	DRYER RISER 5	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-6	DRYER RISER 6	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-7	DRYER RISER 7	Greenheck	TBD	500	TBD	TBD	TBD	TBD	115	1							PRESSURE CONTROL
EF-11	LL TRASH, LL Bath, LL JC	Greenheck	TBD	600	TBD	TBD	TBD	TBD	115	1							

ERU (Energy Recovery Unit) Schedule

		FAN						POWER										
TAG	QTY	OA (CFM)	ESP (IN. WG)	Total SP (IN. WG)	EX. (CFM)	ESP (IN. WG)	Total SP (IN. WG)	OA OPER. HP	OA FAN MOTOR HP	OA FAN RPM	EX. FAN OPER. HP	EX. FAN MOTOR HP	EX. FAN RPM	V/Ø	MCA	MROPD	MANUFACTURER MODEL #	Service Area
ERU-1	22	40-110	0.28	0.6	90	0.28	0.6	0.03	0.03	-	0.03	0.03	?	120/1	0.35	15	Renewaire GR-90	Guest Rooms-Corridors

RTU SCHEDULE

TAG	SERVICE	MFR	MODEL	OUTDOOR AIR CFM	SUPPLY CFM	EXT SP INWG	TOTAL SP INWG	FAN DIA INCHES	QTY	FAN TYPE	FAN SPEED	DRIVE TYPE	BHP	HP	V/P/C	FLA	MCA	MOP	FUSE	COOLING CAPACITY TONS	HEATING CAPCITY (out) MBH	WEIGHT LBS	NOTES
RTU-1	LOWER LEVEL-CORRIDORS	Trane	YCH120E3RHA	400 min	4000	0.42	1.42	-	-	-	1564		2.64	-	208-230/60/3	11.2	48.9	60	-	10	200	1369	SUPPLY WITH OPTIONS 1, 2, 3, 4, 5, 6

FAN COIL UNIT SCHEDULE

INDOOR SECTION																	OUTDOOR SECTION						
	EVAPORATOR COIL				FAN				FAN POWER		ELECTRIC HEAT			TOTAL POWER				CONDENSER					
																			POWER				
TAG	Nom. Cap. Ton	TOT. MBH	SENS. MBH	MANUFACTURER - MODEL #	CFM	ESP. IN	FAN HP	RPM	V/Ø	MCA	V/Ø	KW	MCA	V/Ø	MCA	MROPD	TAG	Nom. Cap. Ton	V/Ø	MCA	MROPD	MANUFACTURER MODEL #	Service Area
FCU-1 TO 22	3	36.6	28	GAM5A0C42M31SA	1200	0.5	0.5	1050	208/1	5	NA	NA	NA	208/1	48	50	CU-1 TO 22	3	208/1	18	30	4TWB3036	EACH APPARTMENT

COMBI BOILER SCHEDULE

TAG #	QTY	MANUFACTURER	MODEL	TOTAL INPUT BTU/HR	TOTAL OUTPUT BTU/HR	EFF. %	DOMESTIC OUTPUT GPM	DOMESTIC TEMP RISE @ GPM	WATER PRESSURE (HYDRONIC/DHW)	TURNDOWN RATIO	WATER INLET (INCHES)	WATER OUTLET (INCHES)	COMBUSTION AIR, DIA (INCHES)	VENT DIA (INCHES)	TYPE	FUEL GAS CONN	ELECTRICAL REQUIREMENTS		DIMENSIONS	WEIGHT LBS	LOCATION	REMARKS
																	POWER	AMPS				
WHB-1	22	NAVIEN	CH-240ASME	199,000	181,090	91%	4.5	77	7-30 PSI	10:1	1"	1"	3"	3"	NG	3/4"	120 V	2 AMPS	17Wx28Hx12D	84	ABOVE KITCHEN	SUPPLY WITH ACCESSORIES 1,2,3,4,5,6

1. CH QUIK-INSTALL MANIFOLD KIT
2. PLUMB EASY VALVE SET
3. READY LINK COMMUNICATION CABLE
4. CONDENSATE NEUTRALIZER
5. OUTDOOR RESET SENSOR
6. CONDENSATE DRAIN HOSE

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PROFESSIONAL ENGINEER

REV. 0		
MARK	DATE	DESCRIPTION

SCALE: NTS
PROJECT NO: ----
CAD DWG FILE: NC M&P 3RD FLOOR.DWG
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SHEET TITLE

Mechanical Schedule

M-600

SHEET SHEET INDEX OF TOTAL SHEETS