PUMP HOUSE, PORTLAND
RETIREMENT RESIDENCE

DRAWING INDEX

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BUILDING CODE SUMMARY

APPLICABLE CODES:

BUILDING CODE	2009 IBC
ELECTRIC CODE	2007 NEC
MECHANICAL CODE	BOCA NATIONAL MECHANICAL CODE
PLUMBING CODE	2009 UPC
ENERGY CODE	2009 IECC
ACCESSIBILITY CODE	2010 ADA

OCCUPANCY TYPE:

PUMP HOUSE — IBC - GROUP U; NFPA - CHAPTER 42 - STORAGE ORDINARY HAZARD (1)

ALLOWABLE AREA:

TYPE OF CONSTRUCTION	TYPE V-B
ALLOWABLE STORIES	1
ALLOWABLE AREA	5,500 SQ. FT.

ACTUAL BUILDING AREA

	1ST FLOOR	TOTAL AREA	PERMITTED
PUMP HOUSE	323	323	< 5,500 S.F.
TOTAL	323	323	

OCCUPANCY LOAD:

MECHANICAL EQUIPMENT ROOM IBC 300 GROSS 323 / 300 = 2 OCCUPANT (1)

MEANS OF EGRESS REQUIREMENT:

NFPA: 42.2.4.1(2) — TRAVEL DISTANCE LESS THAN 50 = 1 REQUIRED EXIT; PROVIDED 25' = 1 REQUIRED EXIT

STRUCTURAL DESIGN DATA

ELEMENT	DEAD LOAD	LIVE LOAD
ROOF-		
TYPICAL	17 PSF	20 PSF
MECHANICAL	17 PSF	80 PSF
EXT. WALLS	12 PSF	0 VERT./HOR. SEE CALCS.
INT. WALLS	7 PSF	O VERT./ 5 HOR.
FLOORS-		
COMMON AREAS	23 PSF	100 PSF
CORRIDORS	23 PSF	100 PSF
UNITS	20 PSF	40 PSF
UNIT DECKS	10 PSF	60 PSF
SNOW LOAD		50 PSF
WIND LOAD		100 MPH, EXP. "B"
SEISMIC		GROUP II
BASIC STRUCTURAL SYSTEM		BEARING WALL SYSTEM
SEISMIC RESISTANCE SYSTEM		WOOD SHEAR PANELS
NUMERICAL COEFFICIENT		R = 5.5
ANALYSIS PROCEDURE UTILIZED		STATIC FORCE PROCEDURE
GARAGE DOOR WIND LOAD		
25.9 psf (INWARD)		
28.4 psf (OUTWARD)		

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE PROCEEDING WITH ANY WORK.
2. ANY ERRORS, OMISSIONS OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE OWNER BEFORE PROCEEDING WITH THE WORK.
3. WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.
4. ALL DIMENSIONS, WHEN SHOWN IN PLAN, ARE TO FACE OF STUD OR CONCRETE U.O.N.
5. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY ON SIMILAR CONDITIONS.
6. ALL DIMENSIONS, WHEN SHOWN IN SECTION OR ELEVATIONS, ARE TO TOP OF STRUCTURAL MEMBERS OR TOP OF CONCRETE SLAB U.O.N.
7. VERIFY THE BUILDING LOCATION AND FLOOR ELEVATIONS, BEFORE PROCEEDING WITH THE WORK.
8. VERIFY ALL ARCHITECTURAL DETAILS WITH THE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BEFORE THE ORDERING OR INSTALLATION OF ANY ITEM OF WORK.
9. LARGER SCALE DETAILING SHALL TAKE PRECEDENCE OVER SMALLER SCALE VERIFY WITH ARCHITECT.

PROJECT DATA

NOTE: NO WORK CAN BEGIN BEFORE 7 AM AND NO WORK AFTER 7 PM.

SITE ADDRESS:	802 OCEAN AVENUE PORTLAND, MAINE 04103
PROPOSED USE:	PUMP HOUSE FOR 150 SUITE RETIREMENT FACILITY
OWNER:	HAWTHORN DEVELOPMENT LLC 9310 NE VANCOUVER MALL DR., SUITE 200 VANCOUVER, WA 98662-8210 PHONE: (503) 399-1090 FAX: (503) 399-0565
CONTRACTOR:	COLSON & COLSON GENERAL CONTRACTOR, INC. 2250 McGILCHRIST ST SE, SUITE 200 SALEM, OR 97302 PHONE: (503) 586-7401 FAX: (503) 370-4205
DEVELOPMENT SERVICES/ ARCHITECT	LENITY ARCHITECTURE 3150 KETTLE CT. SE SALEM, OR 97301 PHONE: (503) 399-1090 FAX: (503) 399-0565
CIVIL ENGINEER:	ROB MCSORLEY, SEBAGO TECHNICS 75 JOHN ROBERTS ROAD, SUITE 1A SOUTH PORTLAND, MAINE 04106-6963 PHONE: (207) 200-2100 FAX: (207) 856-2206
SURVEYOR:	ROB MCSORLEY, SEBAGO TECHNICS 75 JOHN ROBERTS ROAD, SUITE 1A SOUTH PORTLAND, MAINE 04106-6963 PHONE: (207) 200-2100 FAX: (207) 856-2206
GEOTECHNICAL ENGINEER:	TIM BOYCE, S.W. COLE ENGINEERING 286 PORTALND ROAD GRAY, MAINE 04039 PHONE: (207) 657-2866 FAX: (207) 657-2840
LANDSCAPE ARCHITECT:	BRIAN LIND, LANDSCAPE ARCHITECT 3150 KETTLE CT. SE SALEM, OR 97301 PHONE: (503) 399-1090 FAX: (503) 399-0565
STRUCTURAL ENGINEER:	DAN GREEN ENGINEERING, INC. 3230 TRIANGLE DR. SE SALEM, OR 97302 PHONE: (503) 391-2309 FAX: (503) 566-8660

LOCATION MAP

C4 INT. WALL ASSEMBLY (2x6 PARTITION)
SCALE: 1 1/2"=1'-0"
P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530108

G1 ROOF-CEILING ASSEMBLY (TRUSS)
SCALE: 1 1/2"=1'-0"
P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530111

A EXT. WALL ASSEMBLY (EXTERIOR 2x6 STUD WALL) 1-HR
SCALE: 1 1/2"=1'-0"
P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530110

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PUMP HOUSE COVER SHEET

DATE 5/27/2016
REVISED DATE (1) 9/8/2016

SHEET PH0.0

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Reviewed for Code Compliance Inspections Division Approved as Noted
Date: 09/20/16
REGISTERED ARCHITECT DANIEL ROACH No. 3526 STATE OF MAINE

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DOOR SCHEDULE

NO.	LOCATION	SIZE	TYPE	DOOR MAT.	FRAM MAT.
100	PUMP HOUSE	(2) 4068	A	HC	WF

TYPICAL DOOR TYPE:

TYPE 'A'

WINDOW SCHEDULE

NO.	LOCATION	SIZE	TYPE	NOTES
1	PUMP HOUSE	(2) 2630	SGL HUNG	OPAQUE GLASS

NOTES:
1. WINDOWS TO HAVE OPAQUE GLASS.
2. WINDOWS TO BE NON-LOCKABLE FROM THE OUTSIDE TO PROVIDE ACCESS TO LIGHT STRIPS.
3. SEE DETAILS 4A-4F/PH2.2 FOR WINDOW FLASHING INFORMATION.

MULLED TOGETHER

NOTE:
WRAP ENTIRE EXTERIOR OF BUILDING WITH BLDG PAPER. ALL JOINTS TO BE TAPED WITH SHEATHING TAPE. SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH MANUF. INSTALLATION INSTRUCTIONS TO PROVIDE 10 YR. WARRANTY TO GENERAL CONTRACTOR

14 STONE CORNER
(STONE AT TYPICAL OUTSIDE CORNER)
SCALE: 1-1/2" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/04730027

FOR VENTILATION:
2" DIA. HOLE = 3.14 SQ. IN.
(2) HOLES PER LF = 6.28 SQ. IN. PER LF

10 EXTERIOR EAVE BLOCKING
(TRUSSES BEARING ON WALL TOP PLATE)
SCALE: 1-1/2" = 1'-0" T:/06WD&PLS/111RFFRM/06111087

7 PUMP HOUSE
(WINDOW DETAIL)
SCALE: 1" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530106

4 PUMP HOUSE
(SECTION A)
SCALE: 3/16" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530104

17 EXTERIOR WALL DETAIL
(STONE / CEM. BRD. SIDING)
SCALE: 3" = 1'-0" T:/04MASNRY/473STONEVEN/04730031

NOTE:
AT ALL HEADER AND BEAM INTERSECTIONS, MAINTAIN CONSISTENT PLANK ANGLE. SHIM AS REQ'D.

13 EXTERIOR WALL DETAIL
(STONE / CEM. BRD. SIDING)
SCALE: 1-1/2" = 1'-0" T:/04MASNRY/473STONEVEN/04730010

3 PUMP HOUSE
(ELEVATIONS)
SCALE: 1/8" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530101

KEY NOTES/COLORS

1 ROOF	= ARCH. COMP. 25 YR. ELK COLOR: WEATHERWOOD
2 SIDING	= CEMENT BOARD SIDING POP OUTS COLOR: JAMES HARDIE - MOUNTAIN SAGE
3 SIDING	= SHINGLE SIDING (EAVE'S) COLOR: JAMES HARDIE - AUTUMN TAN
4 TRIM	= TRIM BOARD COLOR: JAMES HARDIE - WHITE
5 WINDOW	= VINYL FRAMED INSULATED WINDOWS W/TRIM COLOR: WHITE
6 FASCIA	= 2x8 FASCIA W/CONT. GUTTER COLOR: WHITE
7 RAILING	= 24" TALL "OLD STYLE" WROUGHT IRON RAILING, SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL
8 STONE	= CORONADO STONE PRODUCTS ITALIAN VILLA STONE COLOR:VERONA

NOTE:
SEE BLDG PAPER
NOTE THIS SHEET

NOTE:
AT ALL HEADER AND BEAM INTERSECTIONS, MAINTAIN CONSISTENT PLAN ANGLE. SHIM AS REQ'D.

16 LAP SIDING
(SPACING DETAIL)
SCALE: 1-1/2"=1'-0" T:/09FINISH/960WOOD/09960015

NOTE:
SEE BLDG PAPER
NOTE THIS SHEET.

12 EXTERIOR WALL DETAIL
(WEEP SCREED)
SCALE: 3" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530109

9 EXTERIOR WALL-ROOF INTERSECTION
(HIGH HEEL TRUSS)
SCALE: N.T.S. P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/06111112

6 ROOF UNDERLAYMENT
(ASSEMBLY DETAIL)
SCALE: N.T.S. T:/07TMPROT/500MMBRF/07500002

2 PUMP HOUSE
(ROOF PLAN)
SCALE: 1/8" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530103

15 EXTERIOR WALL CORNERS
(TYP. ASSEMBLIES - CEMENT SIDING)
SCALE: 1-1/2" = 1'-0" T:/10SPECLT/530GARG/10530058

NOT USED
1

11

8 EAVE GUTTER ASSEMBLY
(ROOF WITH COMPOSITION SHINGLES)
SCALE: 3" = 1'-0" T:/07TMPROT/600FLSHG/07600569

5 PUMP HOUSE
(SECTION B)
SCALE: 3/16" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530105

1 PUMP HOUSE
(FLOOR PLAN)
SCALE: 1/8" = 1'-0" P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/10530102

Reviewed for Code Compliance
Inspectors Discretion
Approved as Noted
Date: 09/20/16

REGISTERED ARCHITECT DANIEL ROACH No. 3526 STATE OF MAINE

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PUMP HOUSE PLAN AND DETAILS

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DATE
5/27/2016

REVISED DATE
1 9/8/2016

SHEET
PH2.1

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3 PH4.1 ENLARGED ELECTRICAL PUMP HOUSE PLAN
SCALE: 1/4" = 1'

4 PH4.1 ENLARGED MECHANICAL PUMP HOUSE PLAN
SCALE: 1/4" = 1'

5 PH4.1 ENLARGED PLUMBING PUMP HOUSE PLAN
SCALE: 1/4" = 1'

6 P4.1 ENLARGED MEP - PUMP HOUSE PLAN
SCALE: 1/8" = 1'

1 PH4.1 MECHANICAL, ELECTRICAL, AND PLUMBING - SITE PLAN
SCALE: 1" = 32'

7 CEILING EXHAUST FAN TERMINATION (AT ATTIC SPACE)
SCALE: N.T.S.

T:/15MECH/500HVAC/15500182

8 CEILING EXHAUST FAN
SCALE: N.T.S.

P:/HAWTHORN/ME-PORTLAND/PUMP HOUSE/DETAILS/15500204

MEP KEY NOTES:

1. EMERGENCY STANDBY ENGINE GENERATOR. SEE SPECIFICATIONS ON PH4.2, AND ONE-LINE DIAGRAM 1/PH4.2
2. CIRCUIT LIGHTING PER LIGHTING WIRING DIAGRAM. SEE DETAIL 2/PH4.2
3. COORDINATE WITH STRUCTURAL FOR ROUTING OF RACEWAY WHEN ROUTED UNDER BUILDING.
4. SEE ONE-LINE DIAGRAM 1/PH4.2 FOR WIRE AND CONDUIT SIZE.
5. POLE MOUNTED UTILITY TRANSFORMER. 120/208 VOLT, 3 PHASE. COORDINATE WITH UTILITY.
6. UNDERGROUND PRIMARY SERVICE. COORDINATE SERVICE AND PAY ALL CHARGES AS REQUIRED BY SERVING UTILITY. PROVIDE CONDUIT AND RACEWAY FROM TRANSFORMER TO UTILITY SERVICE VAULT AS REQUIRED BY SERVICE UTILITY. INSTALL RACEWAY A MINIMUM OF 36" BELOW GRADE. COORDINATE EXACT ROUTING, CONDUIT SIZE AND QUANTITY, INSTALLATION REQUIREMENTS, AND TERMINATION POINT WITH UTILITY.
7. 5KW UNIT HEATER 208V/3PH WITH TWO STAGE INTERNAL THERMOSTAT. QMARK MUH0581-UHMT2
8. CEILING MOUNTED EXHAUST FAN : 100 CFM @ 0.1" TSP, WITH BACK DRAFT DAMPER. CONTROL: THERMOSTAT SET TO 75-DEGREE F. HUMIDISTAT SET TO 60% RELATIVE HUMIDITY
9. AQUA FORCE XL VARIABLE SPEED BOOSTING PACKAGE PUMP SYSTEM. 4 PUMPS EACH RATED @ 475 GPM. - 25 HP, 208 VOLT, 3 PHASE. TOTAL PACKAGE FLOW - 1900 GPM @ 55 PSI BOOST.

ELECTRICAL GENERAL NOTES:

1. OUTSIDE THE BUILDING AND BELOW GRADE, WIRING MAY BE IN SCHEDULE-40 PVC CONDUIT WITH GROUNDING CONDUCTOR IF ACCEPTABLE BY LOCAL CODES. NOT LESS THAN 3/4" CONDUIT.
2. INSTALL EXTERIOR CIRCUITS UNDERGROUND. DIRECT BURIED BRANCH CIRCUIT WIRING OUTSIDE THE BUILDING AND BELOW GRADE MY BE IN TYPE UF MOISTURE RESISTANT CABLE, NOT LESS THAN 10AWG CONDUCTORS OR AS NOTED. COMPLY WITH ELECTRICAL CODE AS REQUIRED AND NOTED ON COVER.

STATE OF MAINE
Robert J. Hoffman
LICENSED PROFESSIONAL ENGINEER
Date: 09/20/16

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PUMP HOUSE PLNS AND SITE PLAN - MECH, ELEC, PLMB

DATE 5/27/2016
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1 9/8/2016

SHEET
PH4.1

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1 ONE LINE DIAGRAM

PH4.2 208Y/120v 3P/4w

2 LIGHTING - WIRING DIAGRAM

SCALE: NTS

ELECTRICAL KEY NOTES:

1. EMERGENCY GENERATOR SHALL BE 120/208 VOLT, 3 PHASE, 4 WIRE WYE UNIT, 150KW NOMINAL OUTPUT, DIESEL FIRED STANDBY ENGINE/GENERATOR UNIT SHALL BE COMPLETE WITH TRANSFER SWITCH, LOW OIL, HIGH TEMP, FUEL LEVEL, OVER SPEED, VOLTAGE CONTROLS AND GAUGES, STARTING BATTERIES, CONTINUOUS CHARGING HARDWARE, OUTPUT CIRCUIT PROTECTION, WATER JACKET HEATER AND WEATHERPROOF ENCLOSURE. PROVIDE REMOTE ANNUNCIATOR WITH BACK-UP BATTERY LOCATED IN OFFICE. UNIT SHALL BE COMPLETE WITH ALL ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER, AND SHALL BE FURNISHED COMPLETE WITH MANUFACTURERS START-UP SERVICE. ALL EQUIPMENT AND INSTALLATION SHALL CONFORM TO ARTICLE 445 ON THE NEC AND NFPA 110. GENERATOR SHALL BE SEISMIC CERTIFIED. FUEL CAPACITY FOR MINIMUM 24 HOUR RUNTIME AT FULL LOAD. CUMMINS, FURNISHED BY OWNER, INSTALLED, CONNECTED AND TESTED BY ELECTRICAL CONTRACTOR.
2. MOUNT ON CONCRETE PAD IN LOCATION INDICATED ON SITE PLAN. CIRCUIT TO TRANSFER SWITCH AS SHOWN BY ONE-LINE DIAGRAM. INTEGRAL GENERATOR BREAKERS SHALL BE COORDINATED WITH DISTRIBUTION EQUIPMENT. BREAKERS SHALL BE BY SAME MANUFACTURER AS THE PANELS/SWITCHBOARD TO ASSURE SELECTIVE COORDINATION. PROVIDE BREAKER, INCLUDE FORM C AUXILIARY CONTACT.
3. CONFIRM ALL LUG SIZE WITH MANUFACTURE PRIOR TO INSTALLING ANY FEEDERS.
4. CONFIRM ALL BOOST PUMP CONNECTION REQUIREMENTS WITH INSTALLER AND MANUFACTURE.

ELECTRICAL GENERAL NOTES:

1. OUTSIDE THE BUILDING AND BELOW GRADE, WIRING MAY BE IN SCHEDULE-40 PVC CONDUIT WITH GROUNDING CONDUCTOR IF ACCEPTABLE BY LOCAL CODES. NOT LESS THAN 3/4" CONDUIT.
2. INSTALL EXTERIOR CIRCUITS UNDERGROUND. DIRECT BURIED BRANCH CIRCUIT WIRING OUTSIDE THE BUILDING AND BELOW GRADE MY BE IN TYPE UF MOISTURE RESISTANT CABLE, NOT LESS THAN 10AWG CONDUCTORS OR AS NOTED. COMPLY WITH ELECTRICAL CODE AS REQUIRED AND NOTED ON COVER.

PANEL SCHEDULE

panel	mounting	location	connected load amps
PH	SURFACE	Pump House	334
voltage	**phase**	**bus & main**	**calculated load amps**
120/208	3	400 AMP MLO	334

	service	wire	va	a/p	no.	a b c	no.	a/p	va	wire	service
1	LIGHTING	12	559	20/1	1	*	2	20/1	50	12	PUMP HOUSE EM LIGHT (1)
5	EF-1	12	864	15/1	3	*	4				SPACE
2	RECEPTACLES	12	540	20/1	5	*	6				SPACE
2	RECEPTACLES	12	360	20/1	7	*	8				SPACE
5	HEATER	12	1667	20/3	9	*	10				SPACE
5	*	12	1667	*	11	*	12				SPACE
5	*	12	1667	*	13	*	14				SPACE
	SPACE				15	*	16				SPACE
	SPACE				17	*	18				SPACE
	SPACE				19	*	20				SPACE
	SPACE				21	*	22				SPACE
	SPACE				23	*	24				SPACE
	SPACE				25	*	26				SPACE
	SPACE				27	*	28				SPACE
	SPACE				29	*	30				SPACE
	SPACE				31	*	32				SPACE
	SPACE				33	*	34				SPACE
	SPACE				35	*	36				SPACE
5	BOOSTER PUMP		37564	350/3	37	*	38				SPACE
(4) 5			37564	*	39	*	40				SPACE
5			37564	*	41	*	42				SPACE

		NOTES:	line-line voltage
Phase A	40199 VA		
Phase B	40094 VA		208
Phase C	39770 VA	NEMA 3R	largest motor (va)
Total Connected	120064 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	609	0	0 VA	609	1.25	761
2. RECEPT.=	360	0	540 VA	900	1 + 0.5	900
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP. =	39230	40094	39230 VA	118555	1.00	118555
6. MOTORS=	0	0	0 VA	0	*	0
7. RESIDENTIAL=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =	120217

LUMINAIRE SCHEDULE

TYPE	DISCRIPTION		LAMP		MANUFACTURE
S2	CATEGORY:	VAPOR TIGHT STRIP	TYPE:	LED	LITHONIA DMW2-L24-4000LM-PFL-WD-MVOLT-GZ1-50K-
	HOUSING:	FIBERGLASS 24"x5.88"x3.74"(LxWxH)	QUANTITY:		80CRI
	LENS/REFL:	FROSTED POLYCARBONATE, 0.08" MIN	CCT (K):	5000	OR APPROVED
	BALLAST:	ELECTRONIC	CRI:	40	
	VOLTAGE:	MVOLT	LUMENS:	1691	
	WATTAGE	40	MISC:	85%+ OUTPUT AT 60,000HRS	
	LISTING/STND:	IP 66, NSF SPLASH ZONE II			
	FINISH:				
	MISC:	1500 PSI HOSE DOWN RATED			
TP	CATEGORY:	16' TAPE LIGHT, FIELD CUTTABLE @ <4"	TYPE:	LED	AMERICAN LIGHTING HTL68-WW, LED-DR100-24
	HOUSING:	FLEXIBLE	QUANTITY:	@ 0.63" OC	OR APPROVED
	LENS/REFL:		CCT (K):	3000	
	BALLAST:	REMOTE ELECTRONIC	CRI:	90	
	VOLTAGE:	120	LUMENS:	>220 LUMENS PER FOOT	
	WATTAGE	70.4	MISC:		
	LISTING/STND:	IP 68			
	MISC:	PROVIDE CONNECTION HARDWARE, CLIPS			
		AND ALL OTHER HARDWARE NEEDED			
SW	CATEGORY:	WALL MOUNTED RESIDENCES	TYPE:	LED	WAC LIGHTING WS-W24509
	HOUSING:	ALUMINUM 6" DIA DECROTIVE	QUANTITY:		OR APPROVED
	LENS/REFL:	CLEAR HAMMERED SEEDED GLASS	CCT (K):	3000	
	BALLAST:	ELECTRONIC	CRI:	90	
	VOLTAGE:	120	LUMENS:	365	
	WATTAGE	10	MISC:		
	LISTING/STND:	IP 65			
	FINISH:	BRONZE			
	MISC:				
SW2	CATEGORY:	LED WALL MOUNT	TYPE:	LED	LITHONIA OLWX2LED-90W-50K-PE-DDB
	HOUSING:	ALUMINUM 12-3/4"x14-1/2"x5-1/2" (HxWxD)	QUANTITY:	4	OR APPROVED
	LENS/REFL:	TEMPERED GLASS	CCT (K):	4000	
	BALLAST:	ELECTRONIC	CRI:	80	
	VOLTAGE:	120	LUMENS:	2300	
	WATTAGE	90	MISC:	L76/100,000	
	LISTING/STND:	IP65			
	FINISH:	BRONZE			
	MISC:	INTEGRAL PHOTOCELL			
SF	CATEGORY:	SITE FLOODLIGHT	TYPE:	LED	KIM LIGHTING EL218-W-
	HOUSING:	ALUMINUM 3" DIA BY 5-1/2" LONG	QUANTITY:	8	5-8L-4K-UV-BD215DB-
	LENS/REFL:	BARN DOORS	CCT (K):	4000	BD215DB
	BALLAST:	ELECTRONIC	CRI:	72	
	VOLTAGE:	MVOLT	LUMENS:	1386	
	WATTAGE	16	MISC:	95%+ OUTPUT AT 100000HRS	
	LISTING/STND:	IP 66			
	FINISH:	BRONZE			
	MISC:				
SS	CATEGORY:	SITE SPOTLIGHT	TYPE:	LED	KIM LIGHTING EL218-S-
	HOUSING:	ALUMINUM 3" DIA BY 5-1/2" LONG	QUANTITY:	8	5-8L-4K-UV-BD215DB-
	LENS/REFL:	FIXED HOOD	CCT (K):	4000	FH215DB
	BALLAST:	ELECTRONIC	CRI:	72	
	VOLTAGE:	MVOLT	LUMENS:	1691	
	WATTAGE	16	MISC:	95%+ OUTPUT AT 100000HRS	
	LISTING/STND:	IP 66			
	FINISH:	BRONZE			
	MISC:				
(1) X1	CATEGORY:	EXIT SIGH/EMERGENCY LIGHT	TYPE:	LED	LITHONIA
	HOUSING:	PLASTIC	QUANTITY:		ECG LED HO M6 (ELA LED T WP M12)
	LENS/REFL:	GREEN	CCT (K):	GREEN	WITH DUAL REMOTE EXTERIOR LIGHT
	BALLAST:	ELECTRONIC	CRI:		OR APPROVED
	VOLTAGE:	120	LUMENS:		
	WATTAGE	3.8	MISC:		
	LISTING/STND:	UL DAMP			
	FINISH:	WHITE			
	MISC:				

(3) FEEDER SCHEDULE

TAG	AMPERAGE	COPPER - 75°C CONDUCTOR (A)	COPPER - 75°C GROUND (B)	COPPER - 75°C CONDUIT (C)	ALUMINUM - 75°C CONDUCTOR (A)	ALUMINUM - 75°C GROUND (B)	ALUMINUM - 75°C CONDUIT (C)
60	60	(4) #6	(1) #10	1"	(4) #4	(1) #8	1-1/4"
80	80	(4) #4	(1) #8	1-1/4"	(4) #2	(1) #6	1-1/4"
100	100	(4) #2	(1) #8	1-1/4"	(4) #1	(1) #6	1-1/2"
125	125	(4) #1	(1) #6	1-1/2"	(4) #2/0	(1) #4	2"
150	150	(4) #1/0	(1) #6	1-1/2"	(4) #3/0	(1) #4	2"
200	200	(4) #3/0	(1) #6	2"	(4) #250	(1) #4	2-1/2"
225	225	(4) #4/0	(1) #4	2-1/2"	(4) #300	(1) #2	3"
225G	225	(4) #250	(1) #4	4"	(4) #400	(1) #2	4"
250	250	(4) #250	(1) #4	2-1/2"	(4) #400	(1) #2	3"
300	300	(4) #350	(1) #4	4"	(4) #500	(1) #2	4"
350	350	(3) #500	(1) #3	4"	(4) #700	(1) #1	4"
350G	350	(4) #600	(1) #3	(2) 4"	N/A	N/A	N/A
400	400	(4) #600	(1) #3	4"	(4) #900	(1) #1	4"
400U	400	(3) #600	(1) #3	4"	-	-	-
1200	1200	4 SETS (4) #350	--	4 SETS 4"	4 SETS (4) #500	--	4 SETS 4"
1600	1600	5 SETS (4) #400	--	5 SETS 4"	5 SETS (4) #600	--	5 SETS 4"
2000	2000	6 SETS (4) #400	--	6 SETS 4"	6 SETS (4) #600	--	6 SETS 4"
2500	2500	8 SETS (4) #400	--	8 SETS 4"	8 SETS (4) #600	--	8 SETS 4"
3000	3000	8 SETS (4) #500	--	8 SETS 4"	8 SETS (4) #700	--	8 SETS 4"

(A) - BASED ON NEC TABLE 310.15(B)(16)
(B) - BASED ON NEC TABLE 250.122
(C) - BASED ON 40 PERCENT FILL

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LEGEND, DETAILS, AND SCHEDULRES - MECH, ELEC, PLMB

DATE 5/27/2016

REVISED DATE
1 9/8/2016

SHEET PH4.2

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