

GENERAL	
	HOME RUN. ARROWS INDICATE NUMBER OF CIRCUITS. CROSS LINES INDICATE NUMBER OF WIRES, OTHER THAN TWO (2) PLUS BOND. WIRE SIZE NOT SHOWN INDICATES #12AWG MIN.
	INDICATES CIRCUIT NUMBER
	PANEL DESIGNATION
	WIRING IN RACEWAY
	WIRING IN RACEWAY CONCEALED UNDERGROUND OR UNDERSLAB, MINIMUM 3/4" C
	WIRING IN RACEWAY CONCEALED UNDERGROUND, MINIMUM 3/4" C
	CONDUIT AND CABLE ID TAG
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
	EY CONDUIT SEAL
	FLEXIBLE NON-METALLIC CONDUIT
	PANELBOARD
	CONTROL PANEL
	POWER COMPANY METER
	JUNCTION BOX
	THERMOSTAT
	RELAY
	DOOR BELL/BUZZER AND TRANSFORMER - MTD CL UP 7'-0" AFF
	EQUIPMENT TAGS
	KEYED NOTE TAG
	REVISION TRIANGLE
	COMBINATION PHOTOELECTRIC SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	CONVECTOR TYPE ELECTRIC HEAT - 500W
	CONVECTOR TYPE ELECTRIC HEAT - 750W

POWER	
	NON-FUSED SAFETY SWITCH
	FUSED SAFETY SWITCH
	NON-FUSED DISCONNECT/MAGNETIC MOTOR STARTER
	MANUAL MOTOR SWITCH (MOTOR RATED SWITCH), TOGGLE OPERATED, SINGLE PHASE, 1 OR 2 POLE AS REQUIRED
	ENCLOSED CIRCUIT BREAKER W/AMPERE RATING
	ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER RATING, "F" INDICATES FRACTIONAL LESS THAN 1/20HP OR 100W.
	TRANSFORMER
	POWER POLE
	DUPLEX RECEPTACLE, NEMA 5-20R - MTD CL UP 24" OR AS NOTED. "WP" WEATHER PROOF, "G" PROTECTED BY GFCI RECEPTACLE OR BREAKER UPSTREAM, "H" MOUNTED 0'-6" BELOW CEILING, "TY" MOUNT 7'-6" UP
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R - MTD CL UP 24" OR AS NOTED
	SINGLE RECEPTACLE, NEMA 5-20R - MTD CL UP 24" OR AS NOTED
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R - MOUNTED CL UP 48" OR 6" ABOVE COUNTER
	DOUBLE DUPLEX GFCI RECEPTACLE, NEMA 5-20R - MOUNTED CL UP 48" OR 6" ABOVE COUNTER
	FLUSH FLOOR OUTLET, DUPLEX RECEPTACLE, NEMA 5-20R
	MULTI SERVICE FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE AND PROVISIONS FOR DATA
	POWER RECEPTACLE, NEMA CONFIGURATION AS NOTED OR AS REQUIRED FOR EQUIPMENT SERVED.
	FLUSH CEILING MTD DEVICE BOXES, ONE W/ DUPLEX RCPT FOR PROJECTOR POWER AND ONE FOR DATA TO SERVE OH PROJECTOR. RUN ONE 1 1/2" C TO BOX LOCATED AT FRONT OF ROOM FOR PROJECTOR CABLE PATHWAY. VERIFY FINAL LOCATION W/ OWNER PRIOR TO ROUGH IN.
	MULTI-OUTLET POWER STRIP, MOUNT 0'-6" ABOVE COUNTERTOP, RECEPTACLE SPACING AS NOTED.

LIGHTING	
	2x4 FLUORESCENT FIXTURE
	ASSOCIATED CONTROL DEVICE FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
	1x4 FLUORESCENT FIXTURE
	2x2 FLUORESCENT FIXTURE
	FIXTURE WIRED TO UNSWITCHED NORMAL CIRCUIT
	FIXTURE WIRED TO UNSWITCHED EMERGENCY CIRCUIT
	FIXTURE WIRED TO SWITCHED EMERGENCY CIRCUIT
	DOWN LIGHT
	FLUORESCENT STRIP
	WALL MOUNTED FIXTURES
	POLE MOUNTED SITE LIGHTING FIXTURE
	FIXTURE TYPE (SEE LIGHT FIXTURE SCHEDULE)
	FLOOD LIGHT
	EXIT SIGN, CEILING MOUNTED. ARROW INDICATES EGRESS DIRECTION. SHADING INDICATES SIGN FACE. NUMERAL INDICATES BATTERY UNIT CONNECTED
	EXIT SIGN, WALL MOUNTED 7'-6" AFF OR 0'-6" ABOVE DOOR. SHADING INDICATES SIGN FACE. NUMERAL INDICATES BATTERY UNIT CONNECTED TO.
	DUAL HEAD EMERGENCY LIGHT BATTERY PACK WITH NUMBER OF HEADS AS INDICATED - WALL MOUNTED MTD 7'-6" AFF. NUMERAL INDICATES BATTERY ID NUMBER.
	TANDEM EMERGENCY LIGHT BATTERY PACK & EXIT SIGN - WALL MOUNTED MTD 7'-6" AFF OR 0'-6" ABOVE DOOR. NUMERAL INDICATES BATTERY ID NUMBER.
	REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNTED MTD 7'-6" AFF. NUMERAL INDICATES BATTERY UNIT CONNECTED TO.
	SINGLE POLE TOGGLE SWITCH - MTD CL UP 4'-0" AFF
	DOUBLE POLE TOGGLE SWITCH - MTD CL UP 4'-0" AFF
	3-WAY TOGGLE SWITCH - MTD CL UP 4'-0" AFF
	4-WAY TOGGLE SWITCH - MTD CL UP 4'-0" AFF
	WALL MOUNTED OCCUPANCY SENSOR - MTD CL UP 4'-0" AFF
	TOGGLE SWITCH WITH PILOT LIGHT - MTD CL UP 4'-0" AFF
	DIMMER SWITCH - MTD CL UP 4'-0" AFF
	LOW VOLTAGE SWITCH - MTD CL UP 4'-0" AFF
	OCCUPANCY SENSOR g. INDICATES CONTROLLED FIXTURE
	PHOTOCELL
	LIGHTING CONTRACTOR
	MOTION SENSOR

GROUNDING	
	DENOTES BARE COPPER GROUND CABLE. (SIZE 4/0 UNLESS OTHERWISE NOTED)
	DENOTES 3/4" X 10'-0" LONG GROUND ROD. (10'-0" MINIMUM LENGTH)
	DENOTES EQUIPMENT BOLTED CONNECTION OR APPROVED EQUAL.
	DENOTES CADWELL EXOTHERMIC CONNECTION
	DENOTES PIGTAIL RISER UP THROUGH GRAVEL FOR CONNECTION TO EQUIPMENT. PROVIDE MINIMUM OF 12" AND COIL FOR CONNECTION AT A LATER DATE.
	GROUND

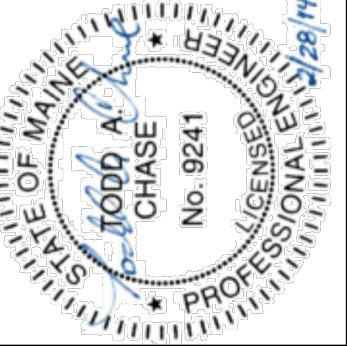
- GENERAL POWER NOTES:**
- THE INTENT OF THESE DRAWINGS IS TO SHOW A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE (NEC), AND ALL STATE AND LOCAL REQUIREMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.
 - THE CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS.
 - ALL ELECTRICAL COMPONENTS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AND SHALL BE APPROVED BY THE OWNER OR THEIR REPRESENTATIVE.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING DURING COURSE OF CONSTRUCTION AS REQUIRED.
 - OBTAIN ALL NECESSARY PERMITS TO BEGIN AND CONTINUE WITH WORK. PAY ALL ASSOCIATED FEES FOR PERMITS AND OTHER MUNICIPAL AND GOVERNING REQUIREMENTS.
 - UNLESS NOTED OTHERWISE HOME RUNS SHALL BE (2) #12 & #12 GND (1 PHASE) AND (3 PHASE), ALL IN 3/4" CONDUIT.
 - ALL EXISTING ELECTRICAL EQUIPMENT ASSOCIATED WITH RENOVATION AREA SHALL BE DEMOLISHED TO POINT OF ORIGIN.
 - COORDINATE INTERRUPTION CAPACITY OF ELECTRICAL PANELS AND ALL BREAKERS WITH UTILITY COMPANY, PROVIDE TYPE WRITTEN DIRECTORIES FOR ALL PANELS PER CIRCUIT USAGE.
 - ALL PRODUCTS SHALL BE NEW, SPECIFICATION GRADE. PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER. PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS. ALL PRODUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NATIONALLY RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES.
 - ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANELBOARDS AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS. SAID IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC NAMEPLATE. EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE PANEL DOOR.

ABBREVIATIONS			
A,AMP	AMPERES	NEC	NATIONAL ELECTRICAL CODE
AL	ALTERNATING CURRENT	NEUT	NEUTRAL
AFF	ABOVE FINISHED FLOOR	NO	NORMALLY OPEN
AFG	ABOVE FINISHED GRADE	OL	OVERLOAD ELEMENT
AHJ	AUTHORITY HAVING JURISDICTION	PF	POWER FACTOR
AIC	AMPERE INTERRUPT CAPACITY	PH	PHASE
AWG	AMERICAN WIRE GAUGE	PT	POTENTIAL TRANSFORMER
BFG	BELOW FINISHED GRADE	PVC	POLYVINYL CHLORIDE
CATV	CABLE TELEVISION	RGS	RIGID STEEL CONDUIT
CB	CIRCUIT BREAKER	RTD	RESISTANCE TEMPERATURE DETECTOR
CCTV	CLOSED CIRCUIT TELEVISION	SEC	SECONDARY
CL	CENTER LINE	SS	STAINLESS STEEL
CKT	CIRCUIT	SV	SOLENOID VALVE
CP	CONTROL PANEL	TEMP	TEMPERATURE
CPT	CONTROL POWER TRANSFORMER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CT	CURRENT TRANSFORMER	TYP	TYPICAL
CU	COPPER	UE	UNDERGROUND ELECTRIC
E.C.	ELECTRICAL CONTRACTOR	UG	UNDERGROUND
EMT	ELECTRIC METALLIC TUBING	UNINT	UNINTERRUPTED
FAA	FIRE ALARM ANNUNCIATOR	UPS	UPS
FACP	FIRE ALARM CONTROL PANEL	V	VOLTS
FBO	FURNISHED BY OTHERS	VA	VOLT-AMPERES
FWE	FURNISHED WITH EQUIPMENT	VAR	VOLT-AMPERE REACTIVE
G.C.	GENERAL CONTRACTOR	W	WATT
GEN	GENERATOR	WM	WATT METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
G, GND	GROUND	XFMR	TRANSFORMER
HP	HORSEPOWER	XP	EXPLOSION PROOF
HZ	FREQUENCY IN CYCLES/SECOND		
IG	ISOLATED GROUND		
IMT	INTERMEDIATE METALLIC CONDUIT		
JBOX	JUNCTION BOX		
K	KILO		
KMIL	1000 CIRCULAR MILS		
KVA	KILOVOLT AMPERE		
KVAR	KILOVOLT AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
MCC	MOTOR CONTROL CENTER		
MCB	MAIN CIRCUIT BREAKER		
MFG	MANUFACTURER		
MH	MANHOLE		
MLO	MAIN LUGS ONLY		
MTD	MOUNTED		
MTR	MOTOR		
MV	MEDIUM VOLTAGE		
NC	NORMALLY CLOSED		

ONE-LINE DIAGRAM SYMBOLS	
	HV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER ELECTRICALLY OPERATED
	MV VOLTAGE DRAWOUT TYPE POWER CIRCUIT BREAKER WITH MANUAL CONTROL SWITCH
	LOW VOLTAGE CIRCUIT BREAKER AF - AMP FRAME AT - AMP TRIP EO - ELECTRICALLY OPERATED
	ST - SHUNT TRIP GF - GROUND FAULT EO - ELECTRICALLY OPERATED
	DISCONNECT, ISOLATION OR SAFETY SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER. NUMERAL INDICATES NEMA SIZE FVNR UNLESS OTHERWISE NOTED. FVR - FULL VOLTAGE REVERSING RVAT - REDUCING VOLTAGE AUTO TRANSFORMER 2S - TWO SPEED YD - WYE DELTA REDUCED VOLTAGE STARTER
	CAPACITOR
	VFD = VARIABLE FREQUENCY DRIVE SS = SOLID STATE STARTER DC = DC VARIABLE DRIVE NUMERAL INDICATES AMP RATING
	POWER TRANSFORMER OA - LIQUID TYPE SELF COOLED AA - DRY TYPE SELF COOLED FA - FAN COOLED
	POTENTIAL TRANSFORMER RATIO NUMBER REQUIRED
	CURRENT TRANSFORMER RATIO PHASE
	MOTOR, NUMERAL INDICATES HORSEPOWER
	GENERAL LOAD, NUMERAL INDICATES LOAD IN KVA
	GENERATOR
	ATS - AUTOMATIC TRANSFER SWITCH MTS - MANUAL TRANSFER SWITCH
	METER A - AMMETER V - VOLTMETER W - WATTMETER KWH - KILOWATT HOUR KVAR - KILOVAR METER VAR - VAR METER HZ - FREQUENCY METER PF - POWER FACTOR METER
	SPD = SURGE PROTECTION DEVICE ENDN = ETHERNET TO DEWGENET LINKING DEVICE DPS = DEWGENET POWER SUPPLY
	MEDIUM VOLTAGE CABLE TERMINATION
	LIGHTNING ARRESTOR
	KEY INTERLOCK

COMMUNICATIONS	
	TELEPHONE BACKBOARD
	PROVISIONS FOR TELEPHONE OUTLET. TWO-GANG WALL BOX WITH ONE 1" C STUB TO ABOVE ACCESSIBLE CEILING - MTD CL UP SAME AS ASSOCIATED RECEPTACLE W-INDICATES WALL MOUNTED AT 60" AFF P-INDICATES PAYPHONE MOUNTED AT 4'-0" AFF X-INDICATES NUMBER OF JACKS, SINGLE BOX
	PROVISIONS FOR DATA OUTLET. TWO-GANG WALL BOX WITH ONE 1" C STUB TO ABOVE ACCESSIBLE CEILING - MTD CL UP SAME AS ASSOCIATED RECEPTACLE. SUBSCRIPTS AS NOTED ABOVE.
	PROVISIONS FOR TELEPHONE & DATA OUTLET. TWO-GANG WALL BOX WITH ONE 1" C STUB TO ABOVE ACCESSIBLE CEILING - MTD CL UP SAME AS ASSOCIATED RECEPTACLE. SUBSCRIPTS AS NOTED ABOVE.
	PROVISIONS FOR SCADA SYSTEM OUTLET. TWO-GANG WALL BOX WITH ONE 1" C STUB TO ABOVE ACCESSIBLE CEILING - MTD CL UP SAME AS ASSOCIATED RECEPTACLE
	CEILING MOUNTED TELEPHONE SYSTEM OUTLET
	CEILING MOUNTED DATA SYSTEM OUTLET
	CEILING MOUNTED VOICE & DATA OUTLET
	FLUSH TELEPHONE FLOOR OUTLET
	FLUSH DATA FLOOR OUTLET
	FLUSH VOICE & DATA FLOOR OUTLET
	TELEVISION COAXIAL OUTLET. MOUNTED UP SAME AS ASSOCIATED RECEPTACLE

TELEVISION	
	TELEVISION COAXIAL OUTLET. MOUNTED UP SAME AS ASSOCIATED RECEPTACLE



Prepared For: **New Day Farm LLC**

Consultant: **VRIDIS ENGINEERING**
20 Mechanic Street
Gorham, Maine 04038
Telephone: (207) 222-0044
www.vridisengineering.com

Architect: **ARCHETYPE architects**
48 Linton Wharf Portland, Maine 04101
(207) 772-6022 Fax (207) 772-4056

Project: **Sheridan Street Townhouses**
152 Sheridan Street
Portland Maine 04101

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ELECTRICAL NOTES
AND LEGENDS

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