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				LINE DIAGRAM	1 – BASE OF	CHRISTIE	EXPRESS			

50-AMP

3P

SHEET LIST SYMBOLS NOTES POWER SYMBOLS Q SYMBOL LIST, SCHEDULES AND SINGLE LINE DIAGRAM MOTOR OUTLET FUSED DISCONNECT SWITCH ď SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE HEAVY DUTY NON-FUSED DISCONNECT SWITCH SWITCH XX/XX = AMP SWITCH/POLES С М COMBINATION MOTOR STARTER Sτ MANUAL MOTOR STARTER WITH THERMAL OVERLOAD STATIONARY – CIRCUIT BREAKER; RATING AS SHOWN ON PLANS \sim Ю, O JUNCTION BOX SURFACE MOUNTED PANELBOARD OR TERMINAL CABINET ,1"C − 3#6 AWG & #10 GND PANEL LP-T XFMR "T2" 100A UPPER BUILDING DISTRIBUTION PANEL — 30 KVA 480/277V, 200-AMP, 3PH, 4W, 22,000 AIC MCB 480/208-120V _ _ _ _ _ _ _ _ _ & #8 GND

 ~ 2

E1.0

E1.1 PANEL SCHEDULES

E2.0

E3.0 SPECIFICATIONS

ELECTRICAL FLOOR PLANS

GENERAL NOTES

1. ALL WORK SHOWN IS NEW, UNLESS NOTED OTHERWISE.

2. ALL WORK TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE, 2014 EDITION. 3. SEAL ALL CONDUIT PENETRATIONS OF FLOORS AND FIRE RATED ASSEMBLIES TO MAINTAIN FIRE RATING.

4. PROVIDE NEW TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL NEW PANELBOARDS IN THIS PROJECT.

5. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM (HOMERUN SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C.

6. ALL NEUTRAL CONDUCTORS ON POWER BRANCH CIRCUITING ROUNDHOUSES TO BE #10 AWG UNLESS NOTED OTHERWISE.

	ABBREVIATIONS	NOTES
A, AMP	AMPERE	
AIC	AMPERE INTERRUPTING CAPACITY	
AF	FRAME RATING IN AMPERES	
AS	SWITCH RATING IN AMPERES	
AT	TRIP RATING IN AMPERES	
AWG	AMERICAN WIRE GAUGE	
С	CONDUIT	
СКТ	CIRCUIT	
(E)	EXISTING TO REMAIN	
EC	EMPTY CONDUIT	
ELEC	ELECTRICAL	
EMT	ELECTRO METALLIC TUBING	
FA	FIRE ALARM	
G, GND	GROUND	
HP	HORSEPOWER	
MECH	MECHANICAL	
MCB	MAIN CIRCUIT BREAKER	
(N)	NEW EQUIPMENT OR DEVICE	
NEC	NATIONAL ELECTRIC CODE	
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	
NO	NORMALLY OPEN	
NTS	NOT TO SCALE	
Ø, PH	PHASE	
PNL	PANEL	
PVC	POLYVINYL CHLORIDE CONDUIT	
PWR	POWER	
RSC	RIGID STEEL CONDUIT	
(R)	RELOCATED EQUIPMENT	
TEL	TELEPHONE	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
V	VOLT	
VA	VOLT AMPERES	
w	WATT	
(X)	EXISTING TO BE DEMOLISHED	

SYMBOLS	WIRING DEVICE SYMBOLS									
•	20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHER	NISE								
Ħ	SURFACE 20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE									
•	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTEI	D OTHERWISE								
₽	SURFACE 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNO									
•=0	SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERW CONFIGURATION AS NOTED ON PLANS	ISE, NEMA								
₽¢	SURFACE SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED CONFIGURATION AS NOTED ON PLANS	D OTHERWISE, NEMA								
€	20A, 125V, DEDICATED DUPLEX RECEPTACLE OUTLET +18" UON									
€€GFI	DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER									
Φ	CEILING MOUNTED 20A, 125V, DUPLEX RECEPTACLE OUTLET									
•	CEILING MOUNTED 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET									
\$	SPST WALL SWITCH, LETTERS INDICATE THE NUMBER OF SWITCHES AND THEY CONTROL	OUTLETS								
\$ _D	DIMMER SWITCH									
\$ _{os}	OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED									
SYMBOLS	TELECOMMUNICATION									
₹	COMBINATION (1) PORT TELEPHONE AND (1) PORT DATA OUTLET, +18" UNLESS NOTED OTHERWISE.									
SYMBOLS	DESIGNATION SYMBOLS	NOTES								
Aa22										

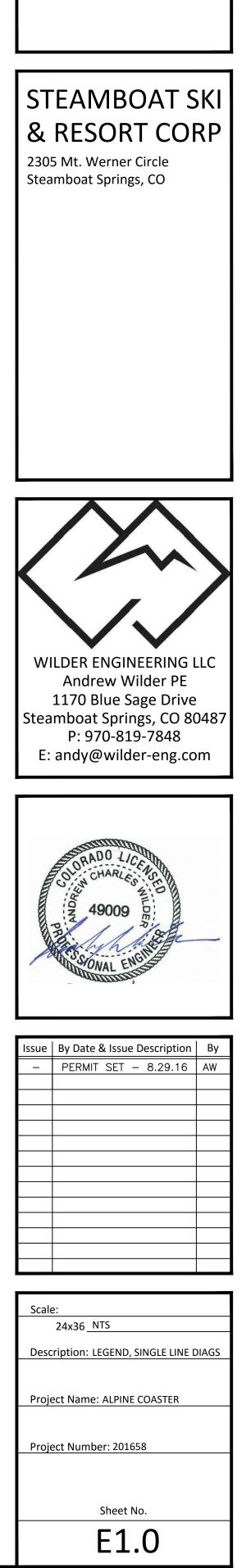
NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).

La LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)

NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

SSRC ALPINE COASTER

2305 Mt. Werner Circle Steamboat Springs, CO





3 LIGHTING FIXTURE SCHEDULE

1. ALL LAMPS SHALL BE PROVIDED BY THE CONTRACTOR. 2. CONTRACTOR TO SUBMIT FIXTURE TYPES TO OWNER AND ENGINEER PRIOR TO PURCHASE AND INSTALLATION.

SCHEDULE NOTES

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	ALTERNATE MANUFACTURER
F1		SURFACE LED FIXTURE	LITHONIA ZL1F-348-3000LM-MDD-MVOLT-35K -80CRI-WH	APPROVED EQUAL
F2	Q	LED FLOODLIGHT	LITHONIA DSXF2-LED-4-A530/30K-MVOLT-THK -DMG-UBV-DDBXD	APPROVED EQUAL
F3		INDUSTRIAL LED STRIPLIGHT	LITHONIA XWMLED	APPROVED EQUAL
F4	Q	LED FLOODLIGHT	LITHONIA OLBF-8-305-DDB	APPROVED EQUAL
X1	Ŷ	EXIT SIGN WITH BATTERY BACKUP EGRESS LIGHTING	LITHONIA – COMBO EXIT SIGN LHQM-S-W-X-G-N	APPROVED EQUAL

AOUN	ITING	SUR	FACE		r.	A			L			- 1		-	10,0	000	A.I.C.	SYM
208/	120	VOLTS	3 PHASE	4	WI	RE	_		M	AIN		100	D A		-	_	BUS	100 /
VC	OLT AM	PS		R	L	P O	В	C		С	B	P O	L	R		V	OLT AM	PS
ØA	ØB	ØC	DESCRIPTION	E C	T G	L E	K R	I R		I R	K R	L E	T G	E C	DESCRIPTION	ØA	ØB	ØC
348			LIGHTING			1	20	1	A	2	30	2			EUH-1	1000		
	720		OPERATOR ROOM	4		1	20	3	В	4	-	-			-		1000	
		1000	APPLIANCE			1	20	5	С	6	20	1			SPARE			
1000			APPLIANCE			1	30	7	A	8	20	1			SPARE			
	540		RECEPTS	3		1	20	9	В	10	20	1			SPARE			
		360	RECEPTS	2		1	20	11	С	12					SPACE			
360			RECEPTS	2		1	20	13	A	14					SPACE			
			SPARE			1	20	15	В	16					SPACE			
			SPARE			1	20	17	С	18					SPACE			
			SPARE			1	20	19	A	20					SPACE			
			SPACE					21	В	22					SPACE			
			SPACE					23	С	24					SPACE			
			SPACE					25	А	26					SPACE			
			SPACE					27	В	28					SPACE			
			SPACE					29	С	30					SPACE			
			SPACE					31	A	32					SPACE			
			SPACE					33	В	34					SPACE			
			SPACE					35	С	36					SPACE			
			SPACE					37	Α	38					SPACE			
			SPACE					39	В	40					SPACE			
			SPACE					41	С	42					SPACE			
1708	1260	1360		1				V	A/LIN	JE						1000	1000	
ØA=	2708						ØB=	22	260							ØC=	1360	
CONTINUOUS LOADS NON-CONTINUOUS LOADS																		
348	x1.25=	435	RECEPTA	CLES			19			1.00= 0.50=	19	80	-		OTHER	4000	x1.00	400

1 PANEL SCHEDULES - TOP

MOUN	ITING	SUR	FACE	_		P	A	N	E	L		_P	-B	3		10,0	000	A.I.C.	SYM
208/	120	VOLTS	3	PHASE	4	WI	RE			M	AIN		100	0 A				BUS	100 A
VC	DLT AM	PS			R	L	P O	В	С		С	В	P O	L	R		V	OLT AM	PS
ØA	ØB	ØC	DESC	RIPTION	E C	T G	L E	K R	I R		I R	K R	L E	T G	E C	DESCRIPTION	ØA	ØB	ØC
540			LOFT	RECEPTS	3		1	20	1	Α	2	15	3			MINI GOLF PUMP	830		
	720		OPERA	TOR ROOM	4		1	20	3	В	4	-	-			-		830	
		833	LIG	HTING			1	20	5	С	6	1	-			-			830
1000			OPER	ATOR APP			1	30	7	A	8	20	3			MINI GOLF PUMP	1320		
	1000		OPER	ATOR APP			1	20	9	В	10	1	-			-		1320	
		720	RE	CEPTS	4		1	20	11	С	12	I.	1			-			1320
540			RE	CEPTS	3		1	20	13	A	14	15	1			BOILERS	540		
	1000		WOR	KBENCH			1	20	15	В	16	15	1			PUMP-1		528	
		1000	WOR	KBENCH			1	20	17	С	18	15	1			PUMP-2			528
1000			WOR	KBENCH			1	20	19	A	20	15	1			PUMP-3	528		
	540		RE	CEPTS	3		1	20	21	В	22	20	1			PUMP-4		1176	
		1000	FUTUR	E SITE LTG			1	20	23	С	24	20	1			PUMP-5			1176
			S	PARE			1	20	25	Α	26	20	1			PUMP-6	1176		
			S	PARE			1	20	27	В	28	20	1			PUMP-7		1176	
			S	PARE			1	20	29	С	30	20	1			SPARE			
			S	PACE					31	Α	32	20	1			SPARE			
			S	PACE					33	В	34	20	1			SPARE			
			S	PACE					35	С	36					SPACE			
			S	PACE					37	Α	38					SPACE			
			S	PACE					39	В	40					SPACE			
			S	PACE					41	С	42					SPACE			
3080	3260	3553							V	A/LIN	Æ						4394	5030	3854
Ø A= 7474 Ø B= 8290 Ø C=								7407											
CONTINUOUS LOADS NON-CONTINUOUS LOADS																			
1833	x1.25=	2291		RECEPTAC	LES			30		xl x(30	60	-		OTHER	18278	x1.00	18278
		TC	DTAL E	ESIGN kV						OTA			GN /	AM	PS=	66			



SSRC ALPINE
COASTER
2305 Mt. Werner Circle

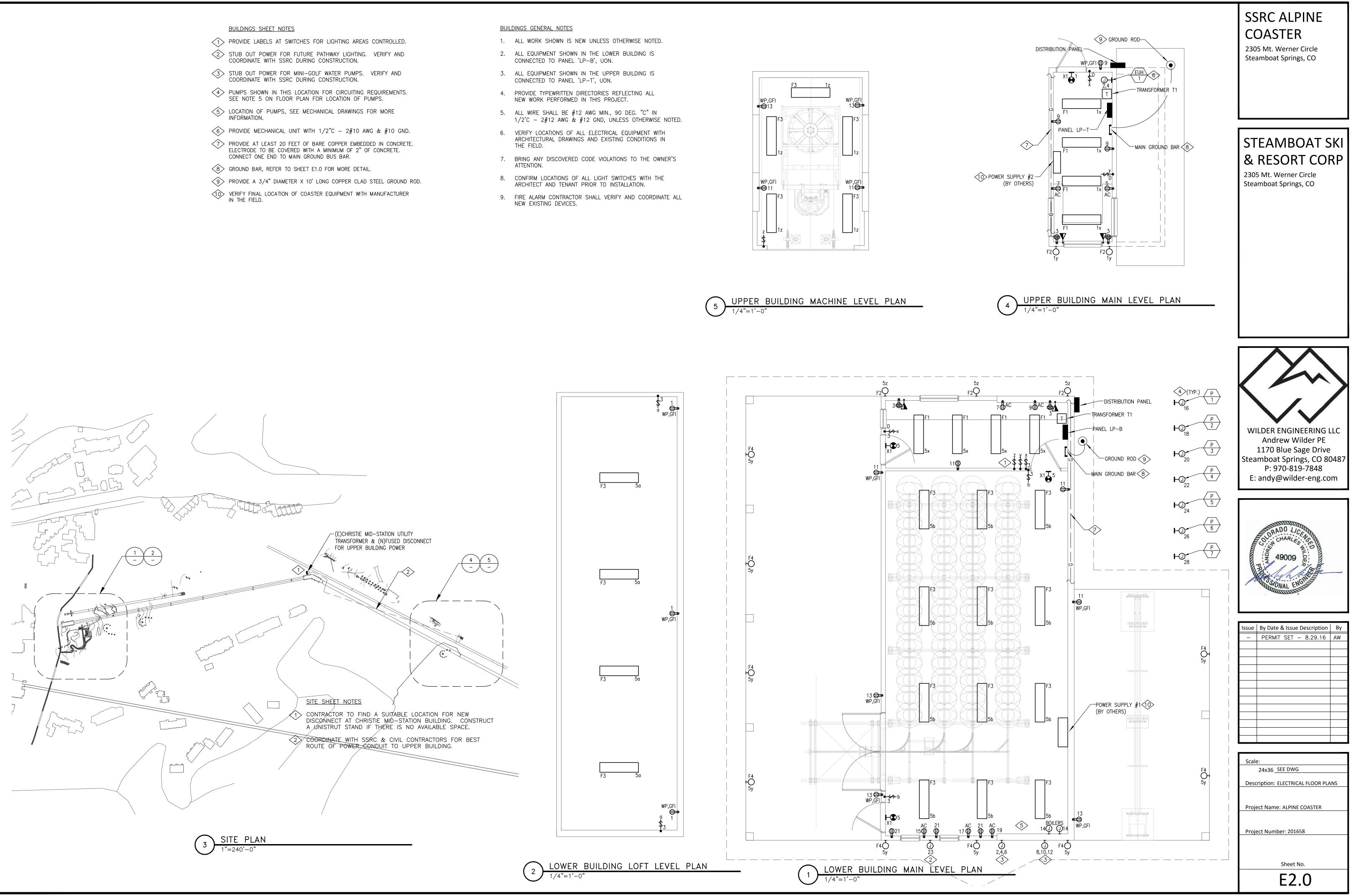
Steamboat Springs, CO

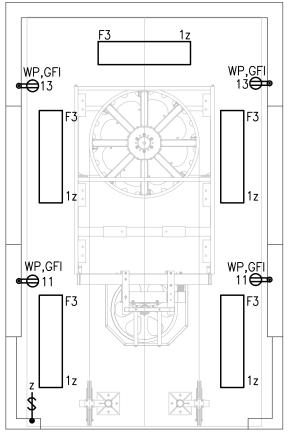


MAIN SERVICE LOAD SUMMARY - UPPER BUILDING												
		kVA										
Load	Cont	Rec	Other	Total	Α							
PANEL LP-T	.3	2.0	4.0	6.4	8							
PANEL POWER SUPPLY 2			46.0	60.8	73							
SubTotal	.3	2.0	50.0	52.4	kVA							
25% of Largest Motor				14.8	kVA							
Total				67.2	kVA							
			80.8	Amps at	480 V							
25% Growth/Spare			101.0	Amps at	480 V							

(E)MAIN SERVICE LOAD SUMMARY - CHRISTIE EXPRESS												
		kVA										
Load	Cont	Rec	Other	Total	Α							
PANEL LP-B	1.8	3.1	18.3	23.6	28							
PANEL POWER SUPPLY 1			9.0	9.8	12							
(E)CARPET			16.6	16.6	20							
(E)75 KVA TRANSFORMER			50.0	50.0	60							
(E)LIFT TERMINAL			20.8	20.8	25							
(E)SCHOOL HOUSE FEED			50.0	50.0	60							
(E)SNOW PEDESTAL			100.0	100.0	120							
(E)SNOW PEDESTAL			100.0	100.0	120							
SubTotal	1.8	3.1	364.7	370.0	kVA							
25% of Largest Motor				0.8	kVA							
Total				370.8	kVA							
			446.1	Amps at	480 V							

(E)MAIN SERVICE LOAD SUMMARY - CHRISTIE EXPRESS	







SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS

1) PART 1 GENERAL

a) POWER AND CONTROL WIRING i) Provide power system conduit and wiring to mechanical equipment. Controls system conduit and wiring for mechanical systems is included under Division 15. "Power" wiring includes line voltage wiring from distribution apparatus to disconnecting means provided or installed under this section, and from such disconnecting means to motors, and to terminal boxes of 'package' equipment. "Controls" wiring includes wiring, regardless of voltage, which provides start-stop control for mechanical equipment and/or which is used to monitor functions of mechanical systems. Where line voltage wiring is extended from a local disconnecting means to relays, thermostats, by-pass timers, starter coils or the like, or from mechanical control panels or motor control centers to control devices, such extensions are considered

"control" wiring. b) MOUNTING HEIGHTS

i) Mounting heights and locations: verify the exact location of equipment with architect prior to installation. Wall mounted devices requiring operational access shall be mounted a minimum of 15 inches above finished floor to bottom of device and a maximum of 48 inches above finished floor to top of device. Visual alarms shall be mounted not less than 80 inches to the bottom or 96 inches to the top of the device.

c) REGULATORY REQUIREMENTS

i) Conform to:

(1) NFPA-70 - National Electric Code. ii) Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having

jurisdiction, the Owner's insurance underwriter, and applicable base building standards. iii) When conflict exists between two or more governing codes, comply with the stricter requirement.

iv)Obtain permits, and request inspections from authority having jurisdiction.

d) PROJECT/SITE CONDITIONS

i) Install Work in locations shown on Drawings, unless prevented by Project conditions. Coordinate installation of work in available space with work furnished under other Divisions.

2) PRODUCTS

a) Where manufacturer's model or series numbers are specified or shown, these indicate generally acceptable types required. Furnish products which comply with all requirements, as specified or shown. b) When more than one unit of the same class of equipment is required, provide units produced by a single manufacturer.

3) TESTS

a) Furnish test equipment, facilities, and technical personnel required to perform field tests. b) At completion of job, check voltage at several points of utilization on the system. Energize all loads installed. 4) CLEANING

a) Clean all fixtures and equipment at the completion of the project. Wipe clean exposed lighting fixture reflectors and trim pieces with a non-abrasive cloth just prior to occupancy.

5) RECORD DRAWINGS

a) Upon completion of the Work, deliver to Architect and up-to-date set of "as-built" record drawings on a reproducible medium including AutoCAD.

6) DEMOLITION

a) Remove, relocate, and reroute existing electrical equipment to facilitate new construction or remodeling work. b) Examine the site to observe and note existing conditions prior to submitting a bid.

c) Schedule demolition in advance. Schedule work to avoid disruption of normal operations.

d) Reconnect circuits serving equipment required to remain in service to other panelboards, motor control centers, or other appropriate distribution equipment. Provide additional panelboards, motor control centers, or other appropriate distribution equipment where there is insufficient available capacity in remaining existing equipment for reconnection. e) Remove existing conduit and wire back to panelboard, motor control center, or other distribution source.

f) Where a circuit is interrupted by removal of a device or fixture from that circuit, provide additional conduit and wire to restore service to the remaining devices and fixtures on that circuit.

g) Electrical equipment to be removed that is in good working order shall be carefully removed and offered to the Owner. Items rejected by the Owner shall be removed from the project site and properly disposed of.

1) PART 1 GENERAL

a) REFERENCES i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion. b) PERFORMANCE REQUIREMENTS

i) Provide support system for equipment and conduit, including wiring, with a minimum safety factor of 4. For empty conduits, include weight of 4 type XHHW wires of maximum permissible size.

c) QUALITY ASSURANCE

i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.

2) PART 2 PRODUCTS

a) CONDUIT i) General

(1) Exposed Dry and Damp Locations:

(a)Use electrical metallic tubing.

(2) Concealed Locations:

(a)Furred, Ceiling Spaces and Stud Walls: Use electrical metallic tubing.

(b) Connections to Lighting Fixtures in Accessible Ceilings: Use flexible conduit.

(3) Equipment Connections:

(a)Connections to Liquid-Handling Equipment in Dry Locations: Use liquid-tight flexible conduit.

(4) Equipment for Dry Systems in Dry Locations: Use flexible conduit. ii) Electrical Metallic Tubing:

(1) Continuous, seamless steel tubing, galvanized or sherardized on exterior, coated on interior with smooth hard

finish of lacquer, varnish or enamel, with steel, set screw or compression type fittings. Provide concrete type fittings where required.

(2) Use for general purpose feeders and branch circuits.

iii)Flexible Steel Conduit:

(1) Single strip, continuous, flexible interlocked double-wrapped steel, hot dip galvanized inside and out forming smooth internal wiring channel, with steel, compression type fittings.

(2) Use in dry locations only, connections to lighting fixtures in suspended ceilings, connections to equipment installed above suspended ceilings, transformer connections, busway plug in units, and connections to equipment where vibration isolation is required, maximum length of 6 feet.

iv)Liquid Tight Flexible Steel Conduit:

- (1) Same as flexible steel conduit except with tough, inert, watertight plastic outer jacket. Fittings shall be cast malleable iron body and gland nut, cadmium plated with one-piece brass grounding bushings threaded to interior
- of conduit. Spiral molded vinyl sealing ring between gland nut and bushing and nylon insulated throat.
- (2) Use same as flexible steel conduit in damp or wet locations and at motor connections.

b) BUILDING WIRE AND CABLE

i) Provide wire with a minimum insulating rating of 600 volts, except for wire used in low voltage (below 50 volts) control or signal systems. The use of teflon (multi-conductor) for low tension systems may be permitted for fire alarm, signal and communication systems (voice and data) as approved on shop drawings by engineers and where permitted by local codes and union practice.

ii) Conductors

(1) Electrical grade, annealed copper, and fabricated in accordance with ASTM standards. Minimum size number 12 AWG for branch circuits; number 14 AWG for control wiring.

- (2) Unless otherwise specified, all wires numbers 10 and smaller shall be solid.
- (3) All wires number 8 and larger shall be stranded in accordance with ASTM Class B stranding designations.

(4) Control wires shall be stranded in accordance with ASTM Class B stranding designations. (5) Cables for low tension systems shall be multi-conductor, 16 gauge, color coded and insulated in armored cable

assembly, with number of conductors as required.

(6) All 600 volt wire and cables unless otherwise specified shall be single conductor suitable for use in wet and dry and locations.

iii)Connectors

(1) Make connections, splices, taps and joints with solderless devices, mechanically and electrically secure. Protect exposed wires and connecting devices with electrical tape or insulation to provide insulation values not less than on conductor.

iv) Cables (No. 8 and Larger):

(1) Use set screw or compression type connectors, taps and splices specifically designed for the particular connection. Insulate splice either by taping or by use of "Bakelite" covers designed to fit around splice.

v) Branch Circuit Wires (Number 10 and Smaller): Use any of the following types of terminals and connecting devices:

(1) Hand Applied: Coiled, tapered, spring wound devices with a conducting corrosion-resistant coating over the spring steel and a plastic cover and skirt providing full insulation for splice and wired ends. Screw connector on by hand

(2) Tool Applied: Steel cap, with conduction and corrosion resistant metallic plating, open at both ends, fitted around the twisted ends of the wire and compressed or crimped by means of a special die designed for the purpose. Specifically fitted plastic or rubber insulating cover wrap over each connector.

c) BOXES

i) Pressed steel, galvanized or cadmium-plated, 4 inches minimum octagonal or square with galvanized cover or extension ring as required.

ii) Back-to-back outlets in the same wall, or "through-wall" type boxes are not permitted. Provide 12 inch minimum spacing for outlets shown on opposite sides of a common wall. Provide acoustical potting compound on all outlet

d) WIRING DEVICES

boxes.

i) Switches and Receptacles: Arrow Hart, Hubbell, Leviton, Pass & Seymour, or Slater.

ii) Wall Dimmers: Lutron.

iii) Occupancy Sensors: Mytech, Novitas, or Watt Stopper.

iv)Floor Boxes and Fittings:

(1) Poke through type: Wiremold Legrand.

(2) Recessed flush floor box type: Steel City or Wiremold Legrand.

v) Plugstrip: Wiremold.

vi)Device and cover plate colors shall be as selected by Architect.

e) SUPPORTS

i) Support raceways on accepted types of wall brackets, specialty steel clips, or hangers, ceiling trapeze hangers, or malleable iron straps. Plumber's perforated straps are not permitted. Acceptable manufacturers' brackets or hangers are Kindorf, Elcan, Binkley, Multi-Frame, Power-Strut, or Unistrut. Do not suspend raceways or equipment from other

raceways, steam, water, or other piping or ductwork, except as otherwise permitted. Provide independent and secure support methods.

f) PANELBOARDS

i) Acceptable Manufacturers: Cutler-Hammer/Westinghouse, General Electric, Siemens, or Square D/Groupe Schneider. ii) AIC Rating: Branch panelboards and overcurrent protection devices shall have a minimum short circuit rating of 10,000 RMS symmetrical amperes minimum interrupting capacity (120/208V) or 14,000 RMS symmetrical amperes minimum interrupting capacity (277/480V).

iii) AIC Rating: Distribution panelboards and overcurrent protection devices shall have a minimum short circuit rating of 42,000 RMS symmetrical amperes minimum interrupting capacity (120/208V) or 200,000 RMS symmetrical amperes minimum interrupting capacity (277/480V).

iv)Enclosures: Corrosion resistant galvanized (zinc finished) sheet steel. Fronts shall be cold rolled steel, finish coated with ANSI 61 grey enamel over a rust inhibitor. Panel locks shall be keyed alike.

v) Doors: One piece bolt on front with a lockable hinged door over the overcurrent protection devices.

vi)Bus Bars: Silver plated aluminum or copper. Neutral bus shall be full size. Neutral bus shall be 200% rated when supplied from a double neutral feeder. Provide an equipment ground bus in each panelboard. In addition to the equipment ground bus, provide an isolated ground bus when supplied from a feeder which includes an isolated grounding conductor.

v) Enclosure: NEMA ICS 6; Type 1. h) PULL LINE i) Conduit

iv) Wiring Devices

viii) Panelboards

ix)Motor Starters

(1) Install motor control equipment in accordance with manufacturer's instructions. (2) Select and install heater elements in motor starters to match installed motor characteristics. x) Pull Line: Provide in each empty conduit except sleeves and nipples; leave 8 inches of slack at each outlet.

xi)Firestopping: Provide firestopping around all pipes, conduits, sleeves, etc., which pass through rated walls, partitions and floors.

vii) Overcurrent Protection Devices: Molded case circuit breakers for branch panelboards and 120/208V rated distribution panels, and fusible switch units for 277/480V rated distribution panels.

g) MOTOR STARTERS

i) Acceptable Manufacturers: Eaton/Cutler-Hammer, General Electric, Siemens, or Square D/Groupe Schneider.

ii) Manual Motor Starters

iii)Fractional Horsepower Manual Starter: General-purpose, Class A, manually operated, full-voltage controller for fractional horsepower induction motors, with thermal overload unit, and toggle operator.

iv) Voltage, Rating and Thermal Element: As required by motor controller.

i) 1/8 inch diameter braided yellow polypropylene.

3) PART 3 EXECUTION

a) INSTALLATION

- (1) Install conduit in accordance with NECA "Standard of Installation".
- (2) Do not combine individual homeruns into common conduit.
- (3) Do not support conduit with wire or perforated pipe straps. Remove wire used for temporary supports.
- (4) Arrange conduit to maintain headroom and present neat appearance.
- (5) Use conduit hubs to fasten conduit to cast boxes.
- (6) Provide insulated equipment ground conductor in flexible conduit.
- (7) Install conduit to preserve fire resistance rating of partitions and other elements.

(8) Do not attach conduit to ceiling support wires. ii) Building Wire and Cable

(1) Use conductor not smaller than 12 AWG for power and lighting circuits.

- (2) Neatly train and lace wiring inside boxes, equipment, and panelboards.
- (3) Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise. (4) Use hardened and tempered steel, tin-plated or stainless steel Belleville washer with slightly larger tin-plated
- mild steel flat washer for aluminum lugs.
- (5) Use insulated spring wire connectors with plastic caps for copper conductor splices and taps, 8 AWG and smaller.

iii)Boxes

(1) Install electrical boxes as shown on Drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.

- (2) Install electrical boxes to maintain headroom and to present neat mechanical appearance.
- (3) Install boxes to preserve fire resistance rating of partitions and other elements; arrange boxes to meet regulatory requirements.

(4) Align adjacent wall-mounted outlet boxes for switches, thermostats, and similar devices to each other. (5) Do not use through-walls boxes or install flush mounting boxes back-to-back in walls; provide minimum 6 inch separation. Provide minimum24 inches separation in acoustic rated walls.

- (6) Use stamped steel bridges in bar hanger assemblies to fasten flush mounting outlet box between studs.
- (7) Use adjustable steel channel fasteners for hung ceiling outlet box.
- (8) Do not fasten boxes to ceiling support wires.

(9) Support steel metal boxes independently of conduit.

(10) Use gang box where more than one device is mounted together, including floor boxes. Do not use sectional

- (11) Plaster Rings: Use for all concealed work; depth of rings as required to reach finished surfaces.
- (12) Coordinate trimming of openings for outlet boxes in partitions to achieve neat, closely-fitting openings. (13) Install knockout closure in unused box opening.

- (1) Install devices plumb, level, and rigidly in place.
- (2) Install switches 2 inches to 8 inches from trim on the strike side.
- (3) Install decorative plates on switch, receptacle, and blank outlets in finished areas. Use multi-gang plates for multiple devices.
- (4) Connect wiring devices by wrapping conductor around screw terminal.

v) Supporting Devices

(1) Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using expansion

anchors, beam clamps, steel ramset fasteners.

(2) Use toggle bolts or hollow wall fasteners in plaster or gypsum board partitions and walls; sheet metal screws or spring steel bar retainer clips in sheet metal studs.

- (3) Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.
- (4) Do not use powder-actuated anchors without specific permission.
- (5) Do not drill structural steel members without specific permission.

(6) Fabricate supports from structural steel or steel channel, rigidly welded or bolted to present a neat appearance. Use hexagon head bolts with spring lock washers under nuts.

vi)Electrical Identification

(1) Provide wire markers on each conductor in panelboard gutters, pull boxes, and at load connection. Identify with branch circuit for power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring. If more than one neutral conductor is present, mark each with related circuit numbers.

(2) Color code all secondary branch circuit and feeder conductors as follows:

(a)Four Wire, Three Phase, Grounded Wye System: For 120/208 volt systems, use one black, one red, one blue, one white (neutral). For 277/480 volt systems, use one brown, one orange, one yellow and one gray (neutral).

(3) Use wire with insulation of required color. For sizes of wire, which may not be available in specified colors use self-adhesive wrap around, markers of solid colors to color code conductors. (4) Color code conductors at accessible locations.

(5) Pull Rope Marking: Affix label identifying termination point at each end of pull rope.

vii) Disconnect Switches

(1) Install disconnect switches shown mounted on walls at +4'-6" to centerline of switch.

(2) Install disconnect switches shown on or adjacent to equipment on field fabricated galvanized steel frames.

(1) Provide filler plates for unused spaces in panelboards.

(2) Provide typed circuit directory in plastic holder for each branch circuit panelboard.

END OF SECTION

SSRC ALPINE COASTER

2305 Mt. Werner Circle Steamboat Springs, CO



WILDER ENGINEERING LLC Andrew Wilder PE 1170 Blue Sage Drive

Steamboat Springs, CO 80487 P: 970-819-7848 E: andy@wilder-eng.com



Issue	By Date & Issue Description	Ву
_	PERMIT SET – 8.29.16	AW

24x36 NTS

Description: SPECIFICATIONS

Project Name: ALPINE COASTER

Project Number: 201658

Sheet No. E3.0