UTAH DIVISION OF WILDLIFE RESOURCES NEW LOA FISH HATCHERY DFCM PROJ. NO.: 24204520



DEFERRED SUBMITTALS:

- SHOP DRAWINGS OR REPORTS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION (AS APPLICABLE) U.N.O. SEE SECTION O. ON SHEET ST2.
- MASONRY & GROUT SPECIFICATIONS
- REINFORCING STEEL
- STRUCTURAL STEEL
- SEISMIC BRACING FOR SUSPENDED PIPING SYSTEMS. (SECTION 220548 & 230548).
- STRUCTURAL CALCULATIONS FOR ELECTRICAL SYSTEMS.
- HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS (SECTION 260529).
- SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS (SECTION 260548.16). DIGITAL ADDRESSABLE FIRE ALARMS SYSTEM (SECTION 280721).
- VIBRATION AND SEISMIC CONTROLS FOR HVAC (SECTION 230548).
- FIRE ALARM SYSTEM (SECTION 284621.11).
- RACEWAY METAL BUILDING.
- 10. DEGASSER METAL BUILDING
- 12. LIQUEFIED PETROLEUM GAS DESIGN (SECTION 231126).

- THE CONTRACTOR SHALL PROVIDE DEFERRED SUBMITTALS TO INCLUDE DETAILS AND ENGINEERING CALCULATIONS FOR ALL PLUMBING & MECHANICAL EQUIPMENT AND THEIR SUPPORT ATTACHMENTS.
- THESE SUBMITTALS SHALL BE SUPPLIED TO THE BUILDING OFFICIAL FOR REVIEW WITH AN ACCOMPANIED LETTER FROM THE ENGINEER/ARCHITECT STATING THAT THE DRAWINGS ARE IN CONFORMANCE WITH THE DESIGN.
- THE WORK RELATED TO THE DEFERRED SUBMITTALS SHALL NOT COMMENCE UNTIL THE BUILDING OFFICIAL HAS APPROVED THE SUBMITTAL

SUNRISE ENGINEERING, LLC.

D

635 NORTH MAIN, STE 675

RICHFIELD, UTAH 84701

TEL (435) 896-8857

MHTN ARCHITECTS, INC.

280 SOUTH 400 WEST, SUITE 250

SALT LAKE CITY, UTAH 84101

TEL (801) 595-6700

ENVISION ENGINEERING

240 E. MORRIS AVE, SUITE 200

SALT LAKE CITY, UTAH 84115

TEL (801) 534-1130

VAN BOERUM & FRANK ASSOCIATES, INC.

181 EAST 5600 SOUTH

MURRAY, UTAH 84107

TEL (801) 530-3148











WILDLIFE RESOURCES LOA HATCHERY **PROJECT** ENGINEER'S STAMP DECM APPROVAL ISSUE DATE: JUNE 20, 2025 DFCM PROJECT NO: 24204520 ELPROJECT NO: 09889 AD DWG FILE: G-Sheets.dwg HK'D BY: RWW COPYRIGHT: STATE OF UTAH DRAWING TITLE TITLE SHEET Original drawing is 30x42. Do not scale contents of this drawing DRAWING NUMBER G001

State of Utah

http://dfcm.utah.gov

SUNRISE

PREPARED BY:
SUNRISE ENGINEERING, LLC.
635 NORTH MAIN, SUITE 675
RICHFIELD, UTAH 84701
TEL. (435) 896-8857
FAX (435) 743-7900

MHTN ARCHITECTS

UTAH DIVISION OF

DESIGNED BY:

PROJECT NAME

Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

3

	1		2	l a	}	I	4
	SHEET INDEX	DWO NO	D40E NO	CITE DI MIC CONTINUED	DWO NO 5	14.05 NO	HATCHEDY BUILDING CONTINUED
	GENERAL SHEETS		PAGE NO.	SITE PLANS CONTINUED SITE PLUMBING PLAN		113	HATCHERY BUILDING CONTINUED ENVELOPE DETAILS
	TITLE SHEET SHEET INDEX		2	ELECTRICAL SITE PLAN		114	INTERIOR ELEVATIONS.
	AREA & LOCATION MAPS		3	TELECOM AND LIGHTING SITE PLAN		115	CASEWORK DETAILS
E	SITE LIFE SAFETY PLAN		4				DOOR AND WINDOW DETAILS
E	LIFE SAFETY PLANS		5-6	DEWATERING BUILDING			REFLECTED CEILING PLAN
	CODE ANALYSIS		7-8	DEWATERING TANK	CD200-CD201	116-117	FIRST FLOOR MECHANICAL PLAN
	SPECIAL INSPECTIONS	, G009-G010	9-10	WASTEWATER LIFT STATION	CD300	118	FIRST FLOOR PLUMBING PLAN
				DEWATERING BUILDING PIPING & EQUIPMENT	CD400-CD401	119-120	FLOOR PLAN - LIGHTING
	CIVIL GENERAL			FOOTING AND FOUNDATION PLAN	SD100	121	FLOOR PLAN - POWER AND TELECOM
	LEGEND & ABBREVIATIONS	. CG001	11	WALL FRAMING PLAN	SD200	122	ELECTRICAL SCHEDULES
_	CONSTRUCTION NOTES & DESIGN CRITERIA	. CG002	12	ROOF PLAN	SD300	123	
	SITE PROCESS WATER ONE-LINE DIAGRAM	.CG003	13	STRUCTURAL DETAILS		124	OFFICE SPACE & SHOP BUILDING
	HATCHERY PROCESS ONE-LINE DIAGRAM	.CG004	14	FLOOR PLAN, ROOF PLAN & RCP	AD100	125	FOOTING AND FOUNDATION PLAN
	RACEWAY PROCESS ONE-LINE DIAGRAM	. CG005	15	EXTERIOR ELEVATIONS		126	WALL FRAMING PLAN
	HYDRAULIC PROFILE		16	BUILDING & WALL SECTIONS		127	ROOF PLAN
	WATER TREATMENT HYDRAULIC PROFILE		17	ENVELOPE DETAILS		128	STRUCTURAL DETAILS
	CIVIL TYPICAL DETAILS	.CG501-CG515	18-32	DOOR DETAILS		129	FLOOR PLAN
D				FIRST FLOOR MECHANICAL PLAN		130	ROOF PLAN
	STRUCTURAL GENERAL			FLOOR PLANS - LIGHTING, POWER, AND SYSTEMS		131	EXTERIOR ELEVATIONS
	STRUCTURAL SPECIFICATIONS/REQUIREMENTS		33-35	ELECTRICAL SCHEDULES	ED600	132	BUILDING SECTIONS
	STRUCTURAL DETAILS	, SG500, SG510, SG520	36-38	FLEET TRUCK GARAGE & FEED STORAGE BUILDING			WALL SECTIONS
	ADOLUTEOTUDAL OF NEDAL				05501	177	ENVELOPE DETAILS
	ARCHITECTURAL GENERAL GENERAL PROJECT NOTES & SYMBOLS	AC100	39	FEED SILO DETAILS FOOTING AND FOUNDATION PLAN		133	CASEWORK DETAILS
_	EQUIPMENT SCHEDULE		40	WALL FRAMING PLAN		135	DOOR AND WINDOW DETAILS
	MOUNTING HEIGHTS & CLEARANCES		41	ROOF PLAN		136	REFLECTED CEILING PLAN.
	FIRE PENETRATION DETAILS		42-43	STRUCTURAL DETAILS		137	FIRST FLOOR MECHANICAL PLAN
	UL DESIGN DETAILS		44	FLOOR PLAN		138	FIRST FLOOR PLUMBING PLAN
	EXTERIOR WALL, FLOOR AND ROOF TYPES		45	ROOF PLAN		139	FLOOR PLAN - LIGHTING
	INTERIOR WALL TYPES		46	EXTERIOR ELEVATIONS		140	FIRST FLOOR - POWER AND TELECOM
C	DOOR SCHEDULE & WINDOW TYPES		47	BUILDING SECTIONS		141	ROOF PLAN - LIGHTNING PROTECTION
C	FINISH SCHEDULE	. AG640	48	WALL SECTIONS	AF310	142	FLOOR PLAN - SYSTEMS
				ENVELOPE AND DOOR DETAILS	AF330	143	ELECTRICAL SCHEDULES
	MECHANICAL/PLUMBING GENERAL			REFLECTED CEILING PLAN	AF700	144	
	MECHANICAL SYMBOLS AND LEGEND	, MG000	49	FIRST FLOOR MECHANICAL PLAN	MF101	145	RACEWAY BUILDING
	MECHANICAL GENERAL NOTES	, MG001	50	FLOOR PLAN - LIGHTING	EF101	146	RACEWAY PIPE PLAN
	MECHANICAL DETAILS	, MG501	51	FLOOR PLAN - POWER AND TELECOM	EF201	147	RACEWAY PIPE PROFILES
_	MECHANICAL SCHEDULES.	, MG601	52	FLOOR PLAN - SYSTEMS	EF301	148	RACEWAY PIPE SECTIONS
	PLUMBING DETAILS	.PG501	53	ELECTRICAL SCHEDULES	EF600	149	RACEWAY STRUCTURAL SECTIONS
	PLUMBING SCHEDULES	.PG601	54				RACEWAY DETAILS
				HATCHERY BUILDING			SPRING & REUSE JUNCTION BOX PLAN & SECTIONS
	ELECTRICAL GENERAL			HATCHERY NOTES & EQUIPMENT SCHEDULE	CH100	150	VALVE VAULTS
	GENERAL NOTES AND SYMBOLS LISTS		55	COMBINED HATCHERY PIPING PLAN		151	DISCHARGE JUNCTION BOX
P	DETAILS		56-58	HATCHERY SPRING WATER SUPPLY PLAN		152	FOOTING AND FOUNDATION PLAN - A
Ъ	LIGHTING CONTROL WIRING DIAGRAM		59	PRESSURIZED SPRING WATER PLAN		153	FOOTING AND FOUNDATION PLAN - B
	ONE LINE DIAGRAM SYMBOLS AND SCHEDULES		60	HATCHERY DRAINAGE PLAN		154	STRUCTURAL DETAILS
	ONE-LINE DIAGRAM - POWER.		61	HATCHERY SECTIONS.		155-156	FLOOR PLAN
	TELECOM AND FIRE ALARM RISER DIAGRAM		62 63	INCUBATION ROOM PLAN AND SECTIONS		157 158–159	ROOF PLAN
	FEED SYSTEM TELECOM & CONTROLS	,EG801	63	HATCHERY SECTIONS		160-162	EXTERIOR ELEVATIONS
	SITE PLANS			FOOTING AND FOUNDATION PLAN		163	BUILDING SECTIONS REFLECTED CEILING PLAN
_	SITE PLAN SHEET INDEX	C101	64	WALL FRAMING PLAN		164	FIRST FLOOR PLUMBING PLAN
	OVERALL SITE PLAN.		65	ROOF PLAN		165	FLOOR PLAN - LIGHTING - AREA A
	OVERALL SITE PIPING PLAN		66	BUILDING SECTIONS		166	FLOOR PLAN — LIGHTING — AREA B
	PAVING PLAN.		67	STRUCTURAL DETAILS		167–169	FLOOR PLAN — POWER — AREA A
	SITE PLANS		68-79		SH520		FLOOR PLAN — POWER — AREA B
	SITE COORDINATES LIST		80-82	FLOOR PLAN.	AH100	170	ELECTRICAL SCHEDULES
Δ	SITE COORDINATES SHEET		83-94	SLAB EDGE PLAN		171	
А	CULINARY & SEPTIC SITE PLAN	.C132	95	ROOF PLAN	AH110	172	DISINFECTION SHED BUILDING
	PIPING SITE PLANS	. C133-C142	96-105	EXTERIOR ELEVATIONS	AH200	173	FOOTING AND FOUNDATION PLAN
	ROAD PROFILES	. C301	106	BUILDING SECTIONS	AH300	174	WALL FRAMING PLAN
	SITE PROFILES	.C302-C307	107-112	WALL SECTIONS	AH310-AH311	175-176	ROOF PLAN
	1		2		·		4

HATCHERY BUILDING CONTINUED	DWG NO.	PAGE NO
ENVELOPE DETAILS	, AH330-AH332	177-1
INTERIOR ELEVATIONS	, AH400	180
CASEWORK DETAILS	. AH410	181
DOOR AND WINDOW DETAILS.	. AH600	182
REFLECTED CEILING PLAN		183
FIRST FLOOR MECHANICAL PLAN		184
FIRST FLOOR PLUMBING PLAN		185
FLOOR PLAN - LIGHTING		186
FLOOR PLAN - POWER AND TELECOM.		187
ELECTRICAL SCHEDULES	.EH600	188
FFICE SPACE & SHOP BUILDING		
OOTING AND FOUNDATION PLAN	, S0100	189
WALL FRAMING PLAN	, S0200	190
ROOF PLAN	. S0300	191
STRUCTURAL DETAILS		192-1
LOOR PLAN		195
ROOF PLAN		196
EXTERIOR ELEVATIONS		197-1
BUILDING SECTIONS.		
		199
WALL SECTIONS		200-2
NVELOPE DETAILS		203-2
NTERIOR ELEVATIONS	A0400	205
CASEWORK DETAILS	A0410	206
DOOR AND WINDOW DETAILS	A0600-A0601	207-2
REFLECTED CEILING PLAN	A0700	209
IRST FLOOR MECHANICAL PLAN	, MO101	210
IRST FLOOR PLUMBING PLAN	P0101	211
LOOR PLAN - LIGHTING	F0101	212
EGGK I EAR EIGHTHO	EUIUI	212
IRST FLOOR - POWER AND TELECOM		213
	E0201	
IRST FLOOR - POWER AND TELECOM	E0201 E0202	213
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION	E0201 E0202 E0301	213 214 215
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION 1.00R PLAN - SYSTEMS 1.ECTRICAL SCHEDULES	E0201 E0202 E0301	213 214 215
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION 1.00R PLAN - SYSTEMS 1.ECTRICAL SCHEDULES RACEWAY BUILDING	E0201 E0202 E0301 E0600-E0601	213 214 215 216-2
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN	E0201 E0202 E0301 E0600-E0601	213 214 215 216-2 218
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES	E0201 E0202 E0301 E0600-E0601	213 214 215 216-2 218 219-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306	213 214 215 216-2 218 219-2 221-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309	213 214 215 216-2 218 219-2 221-2 225-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502	213 214 215 216-2 218 219-2 221-2 225-2 228-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504	213 214 215 216-2 218 219-2 221-2 225-2 228-2 230-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION 1.00R PLAN - SYSTEMS 1.ECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION LOOR PLAN - SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2
IRST FLOOR - POWER AND TELECOM 100F PLAN - LIGHTNING PROTECTION 1.00R PLAN - SYSTEMS 1.ECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.COOR PLAN — SYSTEMS 1.ECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A	.CR101 .CR101 .CR301-CR302 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235-2 235 236 237
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.00R PLAN — SYSTEMS 1.ECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A	.CR101	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.00R PLAN — SYSTEMS 1.ECCTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS	.CR101	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235-2 235 236 237 238-2
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.00R PLAN — SYSTEMS 1.ECCTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY PIPE SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS STRUCTURAL DETAILS FLOOR PLAN	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR110	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237 238-2 240
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.00R PLAN — SYSTEMS 1.ECCTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY PIPE SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FRUCTURAL DETAILS FLOOR PLAN ROOF PLAN	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR501, SR510 .AR100 .AR110 .AR200	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237 238-2 240 241
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION 1.00R PLAN — SYSTEMS 1.10CTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN ROOF PLAN	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR110 .AR200 .AR300	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237 238-2 240 241 242
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE PECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN ROOF PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR503-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR200 .AR300 .AR300 .AR300	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237 238-2 240 241 242 243
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE PECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN ROOF PLAN EXTERIOR SECTIONS BUILDING SECTIONS REFLECTED CELLING PLAN FIRST FLOOR PLUMBING PLAN	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR503-CR504 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR200 .AR300 .AR700 .PR101	213 214 215 216-2 218 219-2 221-2 225-2 230-2 232-2 235 236 237 238-2 240 241 242 243 244
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS REFLECTED CEILING PLAN FIRST FLOOR PLUMBING PLAN FIRST FLOOR PLUMBING PLAN FIRST FLOOR PLUMBING PLAN FLOOR PLAN — LIGHTING — AREA A	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR100 .AR200 .AR700 .PR101 .ER101A	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235 236 237 238-2 240 241 242 243 244 245
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE PECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS REFLECTED CEILING PLAN FIRST FLOOR PLUMBING PLAN FLOOR PLAN — LIGHTING — AREA B	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR110 .AR200 .AR300 .AR700 .PR101 .ER101A	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235 236 237 238-2 240 241 242 243 244 245 246 247
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE PROFILES RACEWAY PIPE SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS REFLECTED CEILING PLAN FIRST FLOOR PLUMBING PLAN FIRST FLOOR PLUMBING PLAN FLOOR PLAN — LIGHTING — AREA A FLOOR PLAN — LIGHTING — AREA B FLOOR PLAN — POWER — AREA B	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR110 .AR200 .AR300 .AR700 .PR101 .ER101A .ER101B .ER201A	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235 236 237 238-2 240 241 242 243 244 245 246 247 248
IRST FLOOR — POWER AND TELECOM 100F PLAN — LIGHTNING PROTECTION LOOR PLAN — SYSTEMS LECTRICAL SCHEDULES RACEWAY BUILDING RACEWAY PIPE PLAN RACEWAY PIPE PLAN RACEWAY PIPE PECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY STRUCTURAL SECTIONS RACEWAY DETAILS SPRING & REUSE JUNCTION BOX PLAN & SECTIONS VALVE VAULTS DISCHARGE JUNCTION BOX FOOTING AND FOUNDATION PLAN — A FOOTING AND FOUNDATION PLAN — B STRUCTURAL DETAILS FLOOR PLAN ROOF PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS REFLECTED CEILING PLAN FIRST FLOOR PLUMBING PLAN FLOOR PLAN — LIGHTING — AREA B	E0201 E0202 E0301 E0600-E0601 .CR101 .CR301-CR302 .CR303-CR306 .CR307-CR309 .CR501-CR502 .CR503-CR504 .CR505-CR507 .CR508 .SR100 .SR101 .SR501, SR510 .AR100 .AR110 .AR200 .AR300 .AR700 .PR101 .ER101A .ER201A .ER201B	213 214 215 216-2 218 219-2 221-2 225-2 230-2 235 236 237 238-2 240 241 242 243 244 245 246 247

4

3

252

253

55200

DISINFECTION SHED BUILDING CONTINUED DWG NO. PAGE NO. STRUCTURAL DETAILS DISINFECTION SHED DRAWINGS AS101 256 ENVELOPE & DOOR DETAILSAS300 257 FIRST FLOOR - ELECTRICAL PLANS AND SCHEDULES _____ES201 INSTRUMENTATION CONTROLS LEGEND 1101 2591201 260 CONTROLS DEGASSING SITE PLAN......1202 261 CONTROLS TRUCK FILL SITE PLAN1203 262 CONTROLS FISH WASTE LIFT SITE PLAN.....1204 CONTROLS DEWATERING SITE PLAN1205 264 CONTROLS COMMUNICATION DIAGRAM1301 265 266 267 CONTROLS DEWATERING STATION.....1304 268

State of Utah Department of Administrative Services Division of Facilities Construction & Management 4315 South 2700 West, FL 23 Taylorsville, Utah 84129-228 Phone: (801) 957 - 7230 ...,SS501-SS502 254-255 http://dfcm.utah.gov ²⁵⁸ E

DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4315 South 2700 West, Picor 3/Tayloraville, Utah 84129-2128

DESIGNED BY:



PREPARED BY:
SUNRISE ENGINEERING, LLC.
635 NORTH MAIN, SUITE 675
RICHFIELD, UTAH 84701
TEL. (435) 896-8857
FAX (435) 784-7900



MHTN

MHTN Architects, Inc. 280 South 400 West Suite 250 Salt Lake City, Utah 84101 Telephone (801) 595-6700 www.mhtn.com

PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY **PROJECT**

ENGINEER'S STAMP



DFCM APPROVAL



MARK DATE DESCRIPTION

ISSUE DATE: JUNE 20, 2025

DFCM PROJECT NO: 24204520 SEI PROJECT NO: 09889 CAD DWG FILE: G-Sheets.dwg

DRAWN BY: ---CHK'D BY: RWW
COPYRIGHT: STATE OF UTAH

DRAWING TITLE

SHEET INDEX

Original drawing is 30x42. Do not scale contents of this drawin DRAWING NUMBER G002

2 OF 268

GENERAL PROJECT NOTES

- DIVISION 26000 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALLE BLIEFD ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES WITHOUT ADDITIONAL COSTS TO OWNER. THERE WILL
- THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS ARE NOT ALL INCLUSIVE AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO ALL REQUIREMENTS OF THE SPECIFICATIONS:
- THE CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS FOR VOLTAGE DROP PER THE NEC REGARDLESS OF WHETHER IT IS SHOWN ON THE PLANS OR NOT.
- C. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS. D. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL LIGHT FIXTURES AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE LOCAL AND NATIONAL CODES.
- THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED TO SPECIFIC AREA OF THE BUILDING, NO DEVATION WHE BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
- THE CONTRACTOR SHALL INSTALL THE WIRE SIZES AS CALLED OUT ON THE ONE-LINE
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID. AND SHALL THE CONTROLLOR SHALL VISIT IN SITE BEFORE SUBMITTING WITE BUILDINGS AND THE BUILDING

	VOLTS, 12A MAX LOAD, 3		
LENGTH (FT)	CONDUCTOR SIZE	CONDUIT SIZE	
0-75	(3)#12	3/4"	
76-125	(3)#10	3/4"	
126-190	(3)#8	3/4"	
191-300	(3)#6	1*	
301-480	(3)#4	1-1/2*	
VOLTAGE DROP FOR E PERCENT AT THE FAR SIZES (AND CONDUITS	CUIT CONDUCTORS IN S IRANCH CIRCUITS DO NO THEST OUTLET. INCREA WHERE TO COMPLY WI ECESSARY TO ACCOMM	T EXCEED 3 SE CONDUCTOR TH NEC CONDUIT FI	

120	VOLTS, 14A MAX LOAD, 35	6 VD
LENGTH (FT)	CONDUCTOR SIZE	CONDUIT SIZE
0.60	(3)#12	34"
60-100	(3)#10	3/4"
100-160	(3)#8	3/4"
160-260	(3)#6	1*
>290	(3)#4	1-1/2"

WIRING DEVICE SYMBOLS GENERAL SYMBOLS \propto MOUNTING FOURPLEX RECEPTACLE
GROUND FAULT CIRCUIT LETTER-NUMBER INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN; WHERE NOT SPECIFICALLY REFERENCE DETAIL IS GENERAL IN NATURE AND SHALL APPLY WHERE APPLICABLE. 1 E-1 (4-PLEX) CORD REEL 2 E-2 TOP NUMBER INDICATES ELEVATION NUMBER; BOTTOM LETTER-NUMBER INDICATES WHERE ELEVATION IS SHOWN 3 E-2 DESCRIPTION MOUNTING REMARKS \$ SINGLE-POLE TOGGLE SWITCH RCHITECTURAL ROOM NUMBER 100 AUTHORITY HAVING JURISDICTION ALUMINUM AUTOMATIC TRANSFER SWITCH AUXILIARY AMERICAN WIRE GAUGE BUILDING AUTOMATION SYSTEM BUILDING \$ª SINGLE-POLE TOGGLE SWITCH +48" SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED. AHU 1 \$2 DOUBLE-POLE TOGGLE SWITT \$3 THREE-WAY TOGGLE SWITCH \$_{TIM} TIMER SWITCH \triangle (2) SINGLE-POLE TOGGLE SWITCH \$\$ OW VOLTAGE SWITCH \$_{LV} CEILING **●** # BRANCH CIRCUITING SYMBOLS DESCRIPTION TELEPHONE TERMINAL BOARD TOP AT 72" WIRELESS ACCESS POINT CONDUIT STUB-IN FIRE ALARM SYMBOLS MOUNTING REMARKS JUNCTION BOX ⊕ X HEAT DETECTOR

© X CARBON MONOXIDE DETECTOR CEILING SUBSCRIPT INDICATES SPECIFIC REQUIREMENTS/OPTIONS: IN INSIGN DE LECTION
ISOLATED GROUND
INTERNEDIATE METAL CONDUIT
INSULATED
ISOLATED
IL KILO CIRCULAR MIL
KILO VICIT AMPERES
KILOWATTS
LOUGHT HOMMETAL CONDUIT
LONG-TIME, SHORT-TIME SMOKE DETECTOR WALL MOUNTED:
MAX 12' FROM
BOTTOM OF CEILING
RES' DEVICE HAS 120V. SMOKE ALARM
WIBATTERY BACKUP BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM OBSERVER. ©_X CARBON MONOXIDE DETECTOR 2 CIRCUIT, BRANCH CIRCUIT HOME RUN TO PANEL Z CONTROL MODULE ELECTRONIC SYSTEM GENERAL SYMBOLS R FAN SHUTDOWN RELAY SYMBOL DESCRIPTION MOUNTING REMARKS PANEL ELECTRONIC SYSTEM PANELBOARD (SURFACE MOUNT NAME FIRE ALARM VISUAL STROBE INDOOR - 96" FROM FINISH SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REC OUTDOOR - 120"
FROM FINISH
FLOOR TO TOP
OF DEVICE. TOP AT 72" 0 0 LIGHTING SYMBOLS LIGHT FIXTURE SYMBOLS ARE GENERAL IN NATURE AND MAY BE SHOWN ON THE DRAWINGS IN VARIOUS SIZES AND SHAPES.
REFER TO THE LIGHT FIXTURE SCHEDULE FOR SPECIFICATION INFORMATION. WALL MOUNTED DATA CABINET DESCRIPTION RECESSED WALL FIXTURE OR STEP LIGHT AS SPECIFIED OR DETAILED AS SPECIFIED OR DETAILED EQUIPMENT AND CONTROL SYMBOLS LIGHT FIXTURES AT EQUIPMENT C ELECTRIC MOTOR NON-FUSED DISCONNECT SWITCH CIRCUIT BREAKER AND ENCLOSURE LINEAR WALL WASHER AS SPECIFIED OR DETAILED AS SPECIFIED ✓ MAGNETIC STARTER RECESSED DOWN LIGHT OR DETAILED RECESSED WALL-WASHER OR DIRECTIONAL DOWNLIGHT COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP) AS SPECIFIED SURFACE OR PENDANT-MOUNTED LIGHT FIXTURE ■ TRACK OR MONO-POINT LIGHT FIXTURE COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP) OR DETAILED WALL SCONCE LOAD CENTER (SURFACE-MOUNTED THIS IS AN EXAMPLE OF AN EGR LIGHT FIXTURE. EGRESS LIGHT I ARE HAI E-SHADED DIAGONALLY LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED AS SPECIFIED OR DETAILED AS SPECIFIED OR DETAILED WWW • EMERGENCY FIXTURES ARE FULLY-PAD MOUNTED CEILING WALL ABOVE DOOR RROW(S) INDICATE H⊗ WALL-MOUNTED EXIT SIGN T-# WET TYPE TRANSFORMER PAD MOUNT WALL-MOUNTED EXIT SIGN W/ EMERGENCY LIGHT FIXTUR WALL ABOVE DOOR DRY TYPE TRANSFORMER PAD MOUNT CEILING ⊗_{IN} CEILING MOUNTED IN USE SIGN H⊗_{IN} WALL-MOUNTED IN USE SIGN T-# DRY TYPE TRANSFORMER WALL MOUNT TC TIME CLOCK EMERGENCY LIGHT FIXTURE AS NOTED 9 UTILITY POLE XXXXX LIGHT FIXTURE CALLOUT (LETTER DENOTES FIXTURE TYPE) OPEN - STOP - CLOSE SWITCH

ELECTRICAL SYMBOL SCHEDULE GENERAL NOTES

WHERE OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REFER TO ABBREVIATION SCHEDULE FOR DEFINED REQUIREMENTS.

WHERE OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIPT 'A', MOUNT AT 4" ABOVE COUNTER. IF COUNTER HAS A BACK SPLASH, MOUNT AT 4" ABOVE BACK SPLASH, REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE WITH CASEWORK SUPPLIER.

4 NOT ALL ELECTRICAL SYMBOLS MAY BE USED

OPPER STRIBUTED ANTENNA SYSTEM

EQUIPMENT GROUNDING CONDL ELECTRICAL EMERGENCY ELECTRIC METALLIC TUBING ELECTRIC MONMETALLIC TUBING ELECTRIC WATER COOLER EXPLOSION PROOF IEIDE ALABM

EXPLOSION PROOF
FIRE ALARM
FIRE ALARM CONTROL PANEL
FULL LOAD AMPS
FLEXIBLE METAL CONDUIT
FIBER OPTIC
FREIGHT ON BOARD
FEED-THROUGH LUGS

FLOOR PLAN - POWER - AREA B ELECTRICAL SCHEDULES

FIRST FLOOR - ELECTRICAL PLANS AND SCHEDULES

ADOME COLINTED

ABBREVIATIO	N SCH	HEDULE
NOTE: NOT ALL ABBRE	/IATIONS	MAY BE USED.
	LSI	LONG-TIME, SHORT-TIME INSTANTANEOUS
		LONG-TIME, SHORT-TIME INSTANTANEOUS GROUND FAUL
		LIGHTING
		MAIN BONDING JUMPER
		MINIMUM CIRCUIT AMPS
4		MAIN CIRCUIT BREAKER MAIN LUGS ONLY
		MAIN LUGS ONLY MEDILIM VOLTAGE
		MICROWAVE
		NORMALLY CLOSED
		NATIONAL FLECTRIC CODE
		NOT IN CONTRACT
		NIGHT LIGHT
	NO.	NORMALLY OPEN
		ON CENTER(S)
		OVER CURRENT PROTECTION
	OCPD	OVER CURRENT PROTECTION DEVICE
	PA	PUBLIC ADDRESS
	PH	PHASE
	PV	PHOTOVOLTAIC
	PWR	POWER
		QUANTITY
		REMOVE
CTOR		REFRIGERATOR
		REQUIREMENTS
		RIGID GALVANIZED METALLIC CONDUIT
		RIGID METAL CONDUIT
	RMP	ROCKY MOUNTAIN POWER
	RNC	RIGID NONMETALLIC CONDUIT
		REMOVE AND RELOCATE
	S SBJ	SURFACE MOUNTED
		SYSTEM BONDING JUMPER
		SECURITY CONTROL PANEL SUB-FFFD LIGS
		SURGE PROTECTIVE DEVICE
		SURGE SUPPRESSION
		SUPPLY SIDE BONDING JUMPER
		TELECOMMUNICATION GROUNDING BUS BAR
CTOR		TELECOMMUNICATION MAIN GROUNDING BUS BAR
	TR	TAMPER RESISTANT
	TTB	TELEPHONE TERMINAL BOARD
	TYP	TYPICAL
	UF	UNDER FLOOR
		UNDERGROUND
TION BAR		UNLESS NOTED OTHERWISE
		UNIVERSAL SERIAL BUS
		VIDEO SURVEILLANCE SYSTEM
		WITH
		WITHOUT

SHEET INDEX
GENERAL NOTES AND SYMBOLS LISTS DETAILS DETAILS DETAILS DETAILS DETAILS DETAILS UNIFORM SYMBOLS AND SOME ONE LINE DIAGRAM SYMBOLS AND SCHEDULES ONE LINE DIAGRAM SYMBOLS AND SCHEDULES ONE LINE DIAGRAM - POWER TELECOM AND T
ELECTRICAL SITE PLAN TELECOM AND LIGHTING SITE PLAN
FLOOR PLANS - LIGHTING, POWER, AND SYSTEMS ELECTRICAL SCHEDULES
FLOOR PLAN - LIGHTING FLOOR PLAN - POWER AND TELECOM FLOOR PLAN - SYSTEMS ELECTRICAL SCHEDULES
FLOOR PLAN - LIGHTING FLOOR PLAN - POWER AND TELECOM ELECTRICAL SCHEDULES
FLOOR PLAN - LIGHTING FLOOR PLAN - POWER AND TELECOM ROOP PLAN - LIGHTINING PROTECTION FLOOR PLAN - SYSTEMS ELECTRICAL SCHEDULES ELECTRICAL SCHEDULES
FLOOR PLAN - LIGHTING - AREA A FLOOR PLAN - LIGHTING - AREA B FLOOR PLAN - POWER - AREA A

State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DECM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

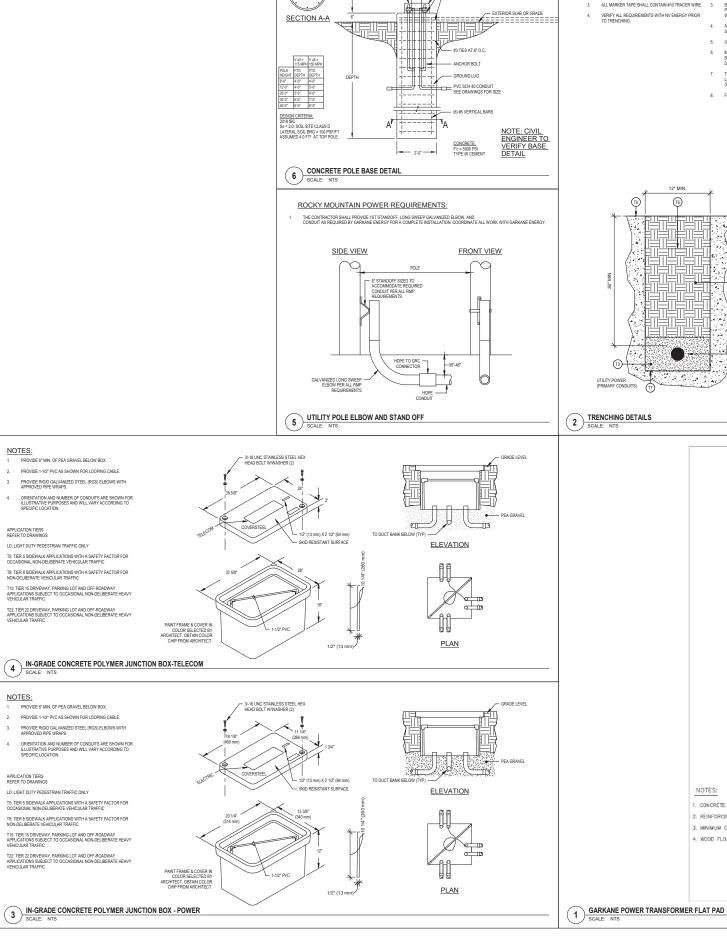
DECM PROJECT NO: 24204520 IECT NO: 2023562 PYRIGHT

DRAWING TITLE

GENERAL NOTES AND SYMBOLS LISTS

DRAWING NUMBER

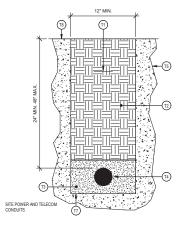
EG001 55 OF 268

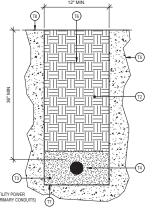


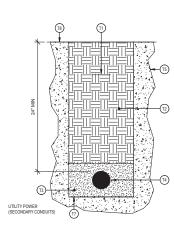
TRENCHING GENERAL NOTES: TRENCHING KEYED NOTES: PROVIDE PULL 1/4" NYLON ROPES IN ALL CONDUITS.

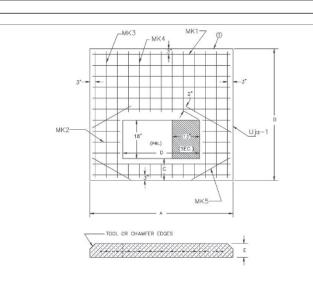
- - UNDISTURBED EARTH.

 - FINISHED GRADE.









PAD	3-PHASE TRANSF.	DIMENSIONS IN INCHES				REINFORCING BARS					
	580		В	С	D	E	MK1	MK2	MK3	MK4	MK5
#1	75, 112 1/2, 150, 225, 300, 500	76	62	10	42	6	7 #4 70"	4 #4 10*	6 #4 57"	6 #4 28"	4 #4 26"
#2	750, 1000 1500, 2500	104	100	10	54	8	12 #4 98"	6 #4 19*	6 #4 94"	7 #4 66*	4 #4

- 1. CONCRETE TESTING, 3000 POUNDS MIN. PER SQUARE INCH; 4% TO 6% ENTRAINED AIR, 3/4" MAXIMUM SIZE AGGREGATE.
- 2. REINFORCING STEEL, ATSM-A615 GRADE 60, PLACE APPROX. 6" D.C. EACH WAY AND SECURELY TIED TOGETHER.
- 3. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 2 INCHES UNLESS NOTED.
- 4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.

	PHASE TRANS CONCRETE PAG	
	2000	UM1-60

State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, FL 3
Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



ISSUE TYPE: CONST. DOCUMENTS ISSUE DATE: JUNE 20, 2025

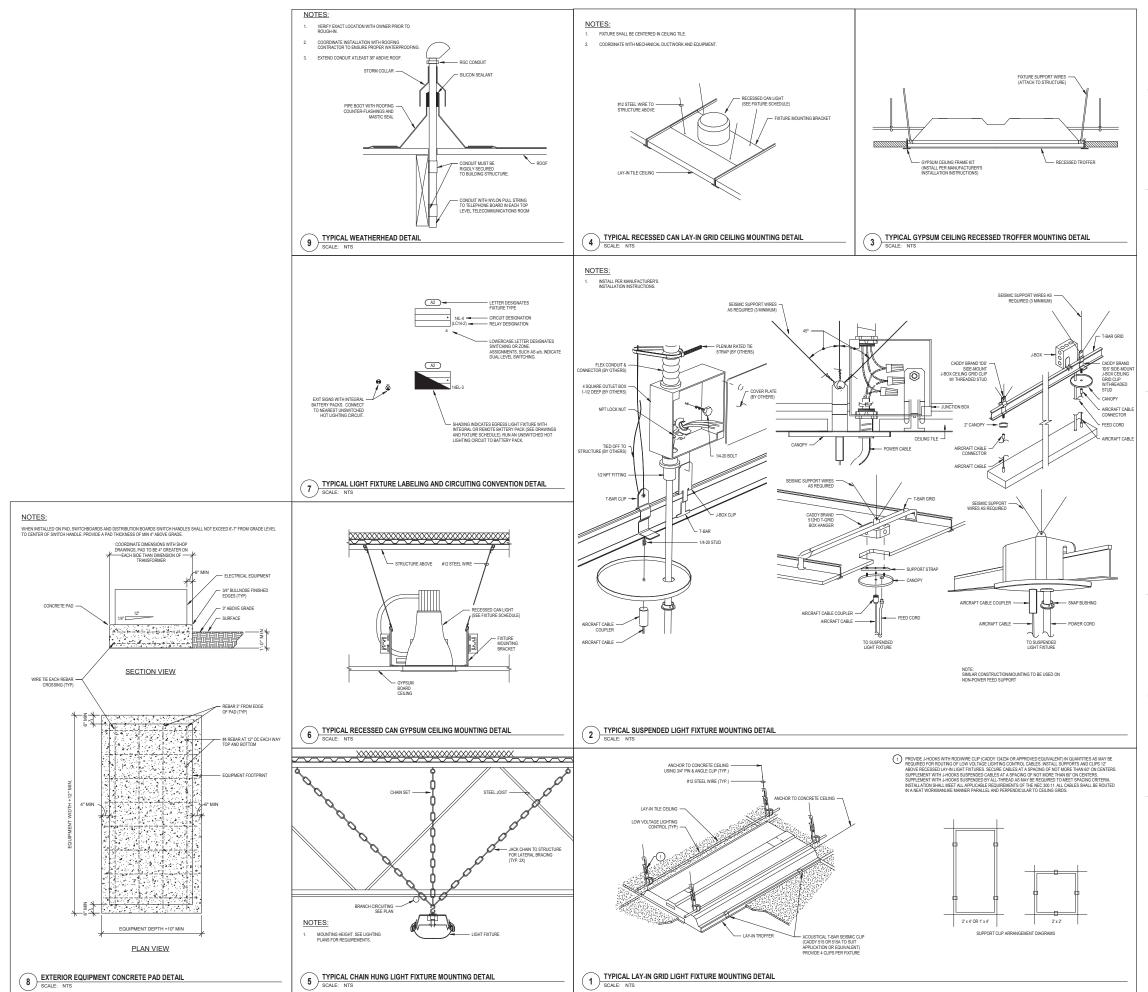
JECT NO: 2023562 OPYRIGHT

DRAWING TITLE

DETAILS

DRAWING NUMBER

EG501 56 OF 268



State of Utah

Division of Facilities Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY **PROJECT**



DFCM APPROVAL



SUE TYPE: CONST. DOCUMENTS

JECT NO: 2023562 OPYRIGHT

DRAWING TITLE

DETAILS

DRAWING NUMBER

 $EG5\underset{\scriptscriptstyle{57\,OF\,268}}{\mathbf{22}}$

NOTES:

8 TYPICAL CONCRETE WALL PENETRATION DETAIL SCALE: NTS

5 TYPICAL MULTIPLE RACEWAY SUPPORT DETAIL
SCALE: NTS

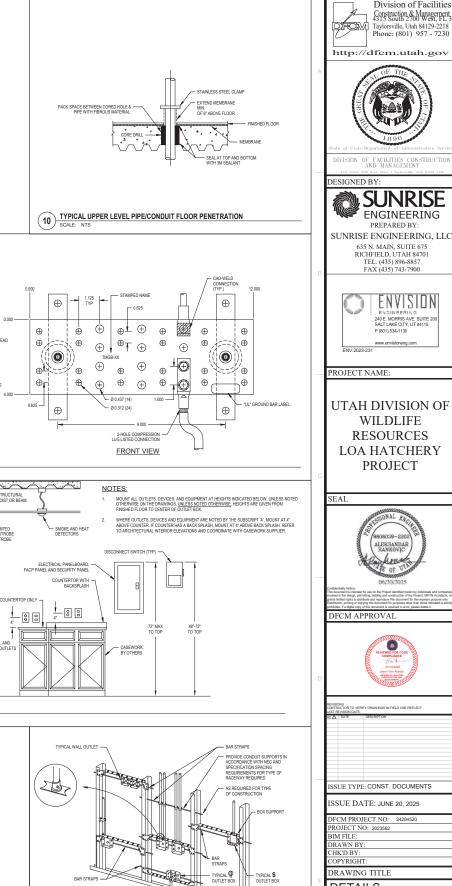
PROVIDE SUPPORT EVERY 8' OF CONDUIT RUN

NOTES:

STRUCTURAL UNIT-(BEAM, JOIST, SLAB, ETC.)

Q O O (\$\frac{1}{2}\) O O O O O O O O

FRONT VIEW



9 TYPICAL GYPBOARD WALL PENETRATION DETAIL
SCALE: NTS

6 TYPICAL SINGLE RACEWAY SUPPORT DETAILS
SCALE: NTS

3/8 S.S. BUTTON HEAD

1. SUPPORT FROM WALL 12 INCHES ABOVE FINISHED GRADE, UNLESS NOTED OTHERWISE 2. CLEAN ALL SURFACES TO BRIGHT METAL AND USE ANTIOXIDANT JOINT COMPOUND PRIOR TO

SIDE VIEW

 $\underbrace{ \text{3} \underbrace{ \text{INTERSYSTEM BONDING TERMINATION GROUNDING BUS BAR DETAIL} }_{\text{SCALE. NTS}}$

NOTES:

SUNRISE **ENGINEERING** SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900

PREPARED BY:

State of Utah

Division of Facilities



PROJECT NAME:

ESIGNED BY:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

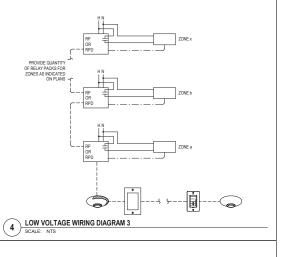
DJECT NO: 2023562 DRAWN BY: CHK'D BY: COPYRIGHT:

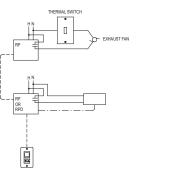
DRAWING TITLE DETAILS

DRAWING NUMBER

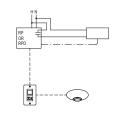
EG503 58 OF 268

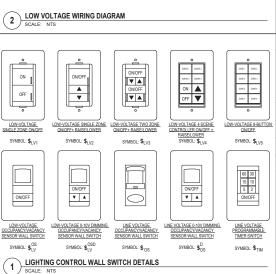
LOW-VOLTAGE SINGLE ZONE ON/OFF SYMBOL: \$1 V1 ON/OFF





3 LOW VOLTAGE WIRING DIAGRAM 2
SCALE: NTS





LIGHTING WIRING DIAGRAMS

Ė "a" LOWER CASE LETTER SPECIFIES ZONE

LIGHTING CONTROL NOTES

ER: EMERGENCY RELAY PACK ERD: EMERGENCY DIMMING RELAY PACK

- NOT ALL DEVICES SHOWN ON WIRING DIAGRAMS MIGHT BE REQUIRED. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND DEVICE TYP PROVIDE SEPARATE RELAYS FOR DAYLIGHT ZONES SHOWN ON DRAWINGS. ROOM CONTROLLERS OR POWER PACKS WITH MULTIPLE RELAYS INCLUDED MAY BE PROVIDED IN LIEU OF SEPARATE RELAYS SHOWN
- LIGHTING CONTROL DIAGRAMS AS SHOWN ARE FOR BASIC CONCEPT AND LAYOUT, LIGHTING CONTROLS SYSTEM SUPPLIER TO PROVIDE INSTALLATION DRAWINGS THAT REFLECT THE ACTUAL INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, AND ALL REQUIRED DEVICES.

State of Utah

Division of Facilities Construction & Management 4315 South 2700 West, FL 3
Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY **PROJECT**



DFCM APPROVAL



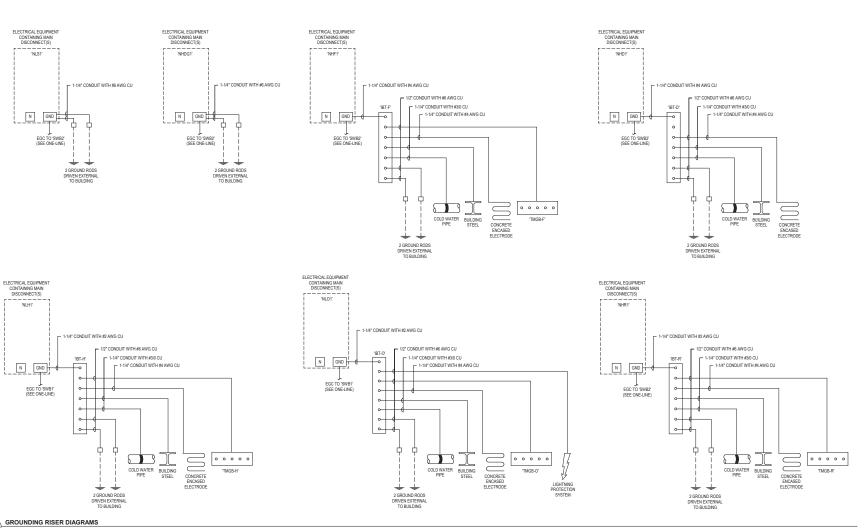
REVISIO CONTR LAST R	EVISION DATE.	FY DRAWINGS IN FIELD USE REFLECT
NO.Δ	DATE	DESCRIPTION
ISS	UE TYPE	: CONST. DOCUMENTS
ISS	UE DA	TE: JUNE 20, 2025
DF	CM PROJ	IECT NO: 24204520
PRO	DJECT N	O: 2023562
BIN	1 FILE:	
DR.	AWN BY	1
CH	K'D BY:	
CO	PYRIGH	Γ:
DR	AWIN	G TITLE

LIGHTING CONTROL WIRING DIAGRAMS

DRAWING NUMBER

EG504 59 OF 268

		ONI	E-LINE	SYMBOLS		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIF	TION	SYMBOL	DESCRIPTION
'X'	LIGHTING AND APPLIANCE PANEL BOARD	'A'	DISTRIBI	JTION PANEL		LOAD CENTER
•	CIRCUIT BREAKER		CIRCUIT	BREAKER ENCLOSED	Î	SPARE
<u></u>	NORMALLY OPEN CONTACT	#	NORMAL	LY CLOSED CONTACT	Ş	THERMAL OVERLOAD
9	MOTOR	K	KEY INTE	RLOCK	©	RELAY COIL
	DISCONNECT SWITCH		DISCON	IECT SWITCH FUSED	SPD	SURGE SUPPRESSION DEVICE
	FUSED SWITCH	子里。	COMBINA WITH TH	ATION MCP STARTER CRMAL OVERLOAD	-\\[-\]	COMBINATION FUSBLE STARTER WITH THERMAL OVERLOAD
0	MUSHROOM PUSH BUTTON	e	PHASE F	AILURE RELAY	(a)	METER
	AUTOMATIC TRANSFER SWITC	Ţ	GROUNE		£—	CURRENT TRANSFORMER
₩	TRANSFORMER		GUTTER		6	GENERATOR
GND - N	GROUND AND NEUTRAL	°/	STANDA	RD SWITCHED WAY		GROUND RODS
古	POWER FACTOR CORRECTION CAPACITOR & ENCLOSURE	Ê	CT CABI	IET	Ů	PULLING SECTION
†	CAM LOCK MALE	+	CAM LOC	X FEMALE	17	LIGHTNING PROTECTION
	COLD WATER PIPE	I	BUILDING	STEEL	M	CONCRETE ENCASED ELECTRODE
	IS(TR	LATION AUTOMATIC ANSFER SWITCH				MAIN SWITCHBOARD
0 0	0 0 0	S BAR			1	GROUND SLEEVE



GENERAL ONE-LINE NOTES:

FEEDER GENERAL NOTES:

State of Utah



Division of Facilities Construction & Management 315 South 27/00 West, P.13 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



STR	ACTOR TO VER EVISION DATE.	FY DRAWINGS IN FIELD USE REFLECT							
Δ	DATE	DESCRIPTION							
SS	UE TYPI	E: CONST. DOCUMENTS							
20	TIE DA	TE. HAIF OR ORDE							
20	UE DA	TE: JUNE 20, 2025							
F	CM PRO	JECT NO: 24204520							
RO	DJECT N	O: 2023562							
IN	1 FILE:								
R.	AWN BY	·:							
Н	K'D BY:								
O	PYRIGH	Т:							
P	RAWING TITLE								
\overline{a}	NFI	INF DIAGRAM							

SYMBOLS AND SCHEDULES

DRAWING NUMBER

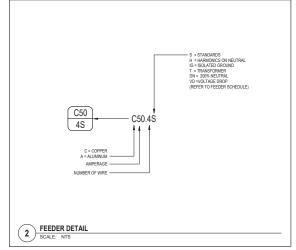
EG700 60 OF 268

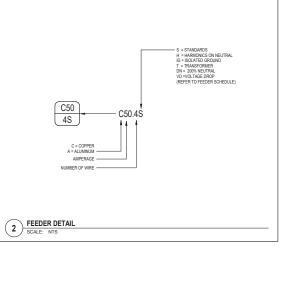
	FEEDER SCHEDULE										
FEEDER		# OF	CONDUIT	CON	DUCTOR	EQ GND	ISOLATED	SYSTEM			
FEEDER	TYPE	SETS	DIAMETER	#	SIZE	COND	GROUND	BONDING			
			•				•				
C50	3S	1	1	3	6	10	-	-			
C50	3VD2	1	1-1/4	3	3	6	-	-			
C70	3S	1	1-1/4	3	4	8	-				
C100	4T	1	2	4	1	-	-	6			
C100	4VD2	1	2	4	2/0	4	-	-			
C175	4T	1	2	4	2/0	-	-	4			
C200	4S	1	2-1/2	4	3/0	6	-	-			
C200	4VD2	2	2-1/2	4	250	4	-				
C300	4S	1	3	4	350	4	-	-			
C400	4S	2	2-1/2	4	3/0	3	-	-			
C400	4VD2	2	2-1/2	4	250	1	-				
C800	4S	3	3	4	300	1/0	-	-			
C1000	4S	3	3	4	400	2/0	-				

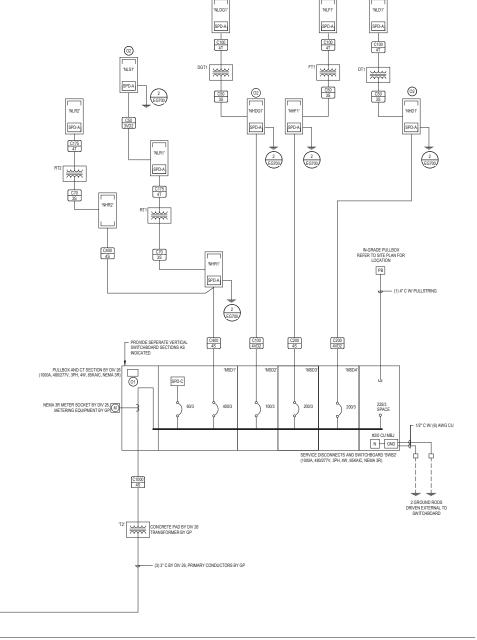
ONE LINE DIAGRAM

SCALE: NTS

ſ		TRANSFORMER SCHEDULE												
ı				P	RIMARY	SECO	NDARY	GROUNDING ELEC	TRODE CONDUCTOR					
	NAME	KVA	WINDING MATERIAL	VOLTAGE	CONNECTION	VOLTAGE	CONNECTION	CONDUIT	WIRE	K FACTOR	ELECTRO-STATIC SHIELD		NEMA RATING	
ı	RT1	45	COPPER	480V	DELTA	208V	WYE	1"	4	K4	YES	FLOOR	NEMA 1	
ſ	RT2	45	COPPER	480V	DELTA	208V	WYE	1"	4	K4	YES	FLOOR	NEMA 1	
ı	DGT1	30	COPPER	480V	DELTA	208V	WYE	1*	6	K4	YES	FLOOR	NEMA 3R	
ı	FT1	30	COPPER	480V	DELTA	208V	WYE	1"	6	K4	YES	WALL MOUNTED	NEMA 1	







KEYED NOTES (#)

State of Utah



Division of Facilities Construction & Management 315 South 2700 West, FL3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



AST R	ACTOR TO VERI EVISION DATE.	FY DRAWINGS IN FIELD USE REFLECT
nΛ	DATE	DESCRIPTION
10 TT		

SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DFCM PROJECT NO:	24204520
PROJECT NO: 2023562	
BIM FILE:	
DRAWN BY:	
CHK'D BY:	
COPYRIGHT:	

DRAWING TITLE

ONE-LINE DIAGRAM - POWER

DRAWING NUMBER

EG701 61 OF 268

FIRE ALARM KEYED NOTES:

- EXTEND A 3H* CONDUIT WITH INITIATING DEVICE CARLE TO ADDRESSABLE FIRE ALAMI DEVICES INCLUDIOS SIGNCE DEFECTORS, DUCT SINDRE DEFECTORS, BALT DEFECTORS, PLUS LISTINGS, MONOTRO HOUSES, AD CONTROL, MODULES, REFER TO AUXILIARY PLANS FOR QUANTITIES AND DEVICE THESE. NUCLE POWER WINNERS A REQUIRED FOR CONTROL MODULES AND DUCT SIMONE DEFECTORS.
- HORNISISTROBES, HORNIS AND STROBES. REFER TO AUXILIARY PLANS FOR QUANTITIES AND DEVICE TYPES. SYNCHRONIZE ALL STROBES.
- PROVIDE NOTIFICATION APPLIANCE CIRCUIT PANEL (NAC) INCLUDING STROBE
 AND HORN CIRCUIT MODULES, POWER SUPPLIES, AND BATTERIES.

2" C W/ PULLSTRING

TELECOM RISER DIAGRAM
SCALE: NTS

- EXTEND 1° CONDUIT WITH CABLING PER ALL MANUFACTURERS RECOMMENDATIONS.

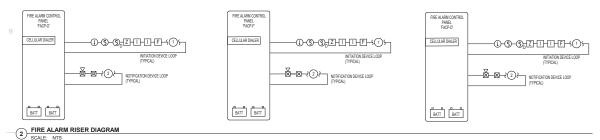
FIRE ALARM SYSTEM NOTES:

- THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING WILL BE ACTIVATED.
- WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED. PROVIDE FIRE ALARM MAP OF THE BUILDING SHOWING ALL FIRE ALARM SYSTEM DEVICES, LOCATE MAP AT REMOTE ANNUMBATION. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL FIRE ALARM CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3M*. CONTRACTOR SHALL SPRAY PAINT ALL JUNCTION BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM RED.
- THE FIRE ALAM SYSTEM SPPILES SHALL PROVIDE COMPUTER OMETTED SHOP DRAWINGS OF THE ENTIRE FIRE ALAM SYSTEM ISSING FLOOR AT ARE PROVIDED STYTE ENGINEERS. SHOP PROMINGS TO TRUCK SHETTER ALGOLATIONS, FAILS SECTIONS, ELEVATIONS, FAILS SECTIONS, ELEVATIONS, FAILS SECTIONS, ELEVATIONS, FAILS SECTIONS, ELEVATIONS, FAILS SECTIONS, SECTIONS, ELEVATIONS, FAILS SECTIONS, SECTIONS, SHALL SHOW, SHALL SHALL
- ROWDE ADDRESSHE FREE ALARM SYSTEM REFER TO THE SPECIFICATIONS FOR ACCORDING A REFORMATION SPECIFICATION SPECI
 - THE FIRE ALARM SYSTEM SUPPLIES SHALL SUBMIT THE FIRE ALARM SHOP DRAWNINGS AND MANUFACTURERS CUTSHEETS TO THE LOCAL AUTHORITY

 HAVING JURISDICTION HAILF FOR REVIEW IN AD PROPOVAL PRIOR TO THE

 ROCHAN FOR THE SYSTEM. PROYER AMMANUAL OF TWO (2) SETS OF BRAININGS,

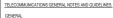
 CUTSHEETS, AND CALCULATIONS TO AHA.
 - 10. VERIFY AND COMPLY WITH ALL STATE, LOCAL AND NATIONAL CODES.
 - 11 LIPON CLOSE OUT OF THE PROJECT THE FIRE ALARM SYSTEM SUPPLIER TO Defonctions of the product in the time allowing system supported to Provide A Colg with FLO AND POR PROMINGS OF the BLUDDING FIRE ALARM MAP, CAO AND PDF AS BUILT DRAWINGS, GENERAL PROGRAMMING, SITE SPECIFIC PROGRAMMING, DOM IMANUALS FOR THE FIRE ALARM SYSTEM AND NACE PANELS AND A TURORIAL OR PROGRAMMING THE SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



3.0F FIRE TREATED PLYWOOD
TELEPHONE TERMINAL BOARD, SHIGH COVERNIO ALL WALLS (BY
CONTRACTOR
TERMINAL BOARD SHALL BE
FASTENED TO WALL FRAME
FASTENED TO WALL FRAME
FASTENED TO WALL FRAME
FASTENED TO WALL FRAME
MEMBERS SHALL COVER LENGTH
OF ALL WALLS. MOUNT BOTTOM IS
ABOVE FINISHED FLOOR. PAINT
WHITE WITH FIRE RETARDINT
PAINT;

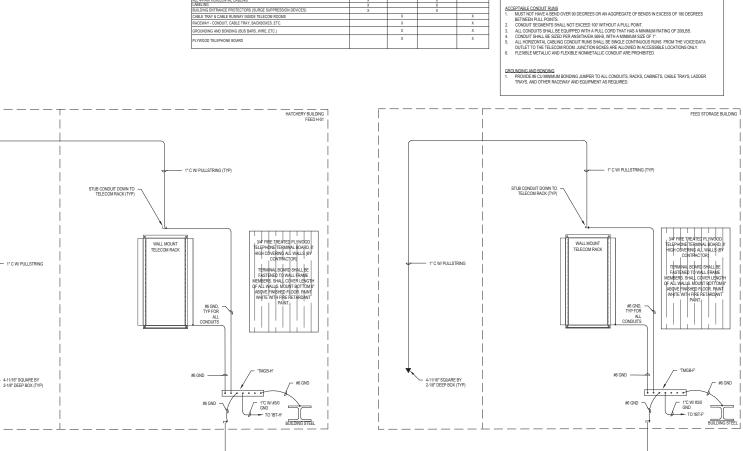
#6 GND, -TYP FOR ALL CONDUITS





- GENERAL

 1. ALL TELECOM ROCIMS SHALL BE LINED WITH 16" AC OR BETTER PLYWOOD EXTENDING FROM 6" AFF TO 8-4" AFF.
 ALL DUTLETS SHALL BE FLUSH WITH THE SURFACE OF THE WOOD AND INSTALLED AT 16" AFF AND TO
 2. ALL DUCKDOLE AND THE REST CONCLUSE TO THE WOOD AND INSTALLED AT 16" AFF AND TO
 3. CONCLUST AND THE STORE CONCLUSING TO CONCESSIONS TELECOM AGBINETS TO BE EXTENDED TO CARBIETS
 3. CONCLUST AND SHOULD NOT EXCEED TWO DEEP.
 4. CONCLUST THAT DITERS A TELECOM MOST SHOULD WERE AND THE CONCLUSING THAT DITERS AT THE CONCLUSING THE AND THE A



State of Utah



http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DFCM APPROVAL



ONTR	EVISIONS ONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT IST REVISION DATE.								
٥Δ	DATE	DESCRIPTION							
_									
ISSUE TYPE: CONST. DOCUMENTS									

SSUE DATE: JUNE 20, 2025

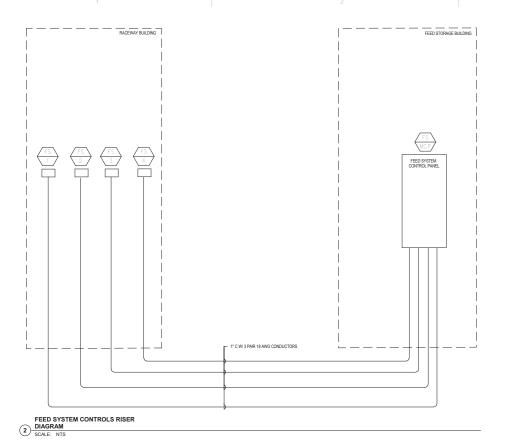
DECM PROJECT NO: 24204520 JECT NO: 2023562 PYRIGHT

DRAWING TITLE

TELECOM AND FIRE ALARM RISER DIAGRAM

DRAWING NUMBER

 $EG800\atop {\scriptstyle 62\ OF\ 268}$



FEED SYSTEM TELECOMMUNICATION						
ITEM	FURNISI	HED BY	INSTALLED AND TESTED BY			
	FEED SYSTEM INSTALLER	PROJECT CONTRACTOR	FEED SYSTEM INSTALLER	PROJECT CONTRACTOR		
WIRELESS ACCESS POINT EQUIPMENT	X		X			
SERVERS, SWITCHES, ACTIVE EQUIPMENT	X		X			
RACK PDUS (POWER DISTRIBUTION UNITS)	X		X			
RACK MOUNTED UPS	X		Х			
RACKS AND VERTICAL/HORIZONTAL RACK CABLE MANAGEMENT	Х		x			
TELECOM RACKS	X		X			
PATCH CORDS	X		X			
FACEPLATES, JACKS, CABLING, ETC.		Х		Х		
PATCH PANELS		Х		X		
ALL 4-PAIR HORIZONTAL CABLING		Х		X		
LABELING		X		X		
BUILDING ENTRANCE PROTECTORS (SURGE SUPPRESSION DEVICES)		х		х		
CABLE TRAY & CABLE RUNWAY INSIDE TELECOM ROOMS		х		Х		
RACEWAY - CONDUIT, CABLE TRAY, BACKBOXES, ETC.		х		х		
GROUNDING AND BONDING (BUS BARS, WIRE, ETC.)		х		Х		

TELECOMMUNICATIONS GENERAL NOTES AND GUIDELINES:

- CONTRACTOR TO COORDINATE PAOC LAVOUT WITH OWNER IT.

 COSTRIAG CONDITIT BLINS

 MIST NOT HAVE A BEND OVER 90 DEGREES OR AN AGGREGATE OF BENDS IN EXCESS OF 180 DEGREES

 BETWEEN PLIL POINTS

 CONDUIT SEGMENTS SHALL NOT EXCEED 107 WITHOUT A PLIL POINT.

 CONDUIT SEGMENTS SHALL BE COUPPED WITH A PULL CORD THAT HAVE A MINIMUM RATING OF 20LBS.

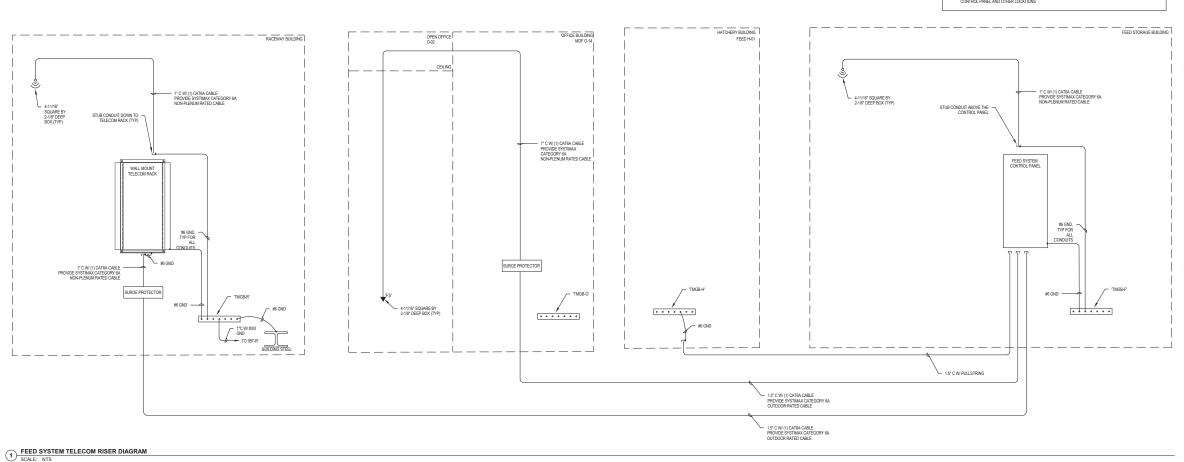
 CONDUIT SHALL BE SEED FOR ANISTITACEA 999. WITH A MINIMUM SIZE OF 1'S SEC CONDUIT SIZEND

 SOMEDILE FOR EACH SIZES REQUIRED. SHALL BE SHALL SO CONTINUOUS RAINS FORM THE VOID SCATA

 ALL HADDINIT CARLING CONDUIT FAULS SHALL SHALL

- PATHWAYS AND CHRIE SUPPORT

 1. PATHWAYS MUST HAVE ADDICATE SUPPORT TO WITHSTAND PULLING THE CABLES.
 2. PATHWAYS SOULDER INSTALLED AT LEAST 3" OF CLEAR VERTICAL SHACE ADDIC THE CELLING TILES AND TEARS TO ENDIFIE ACCESSIBILITY. AND SHOULD AT IND POINT REST OR BE SUPPORTED BY ANY COLUMNING TO THE SUSPENSED EXPORTED BY ANY COLUMNING TO THE SUSPENSED EXPORTED AND THE SUPPORTED BY ANY COLUMNING THE SUPPORTED AND THE SUPPORTED THE SUPPORTED THE SUPPORTED TO COLUMN FOR THE SUPPORTED THE SUPPORTE



State of Utah

Division of Facilities Construction & Management 313 South 2700 West, PL 3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY **PROJECT**

SEAL



DFCM APPROVAL



CONTR	EVISIONS ONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT AST REVISION DATE.								
ю.Д	DATE	DESCRIPTION							
ICC	TE TAIDE	CONST DOCUMENTS							
ISSUE TYPE: CONST. DOCUMENTS									
ISS	ISSUE DATE: JUNE 20, 2025								

DFCM PROJECT NO: 24204520 PROJECT NO: 2023562 BIM FILE: DRAWN BY: CHK'D BY: COPYRIGHT:

DRAWING TITLE

FEED SYSTEM TELECOM & CONTROLS

DRAWING NUMBER

EG801 63 OF 268

GARKANE POWER REPRESENTATIVE

NET PRESENTATIVE
BRADD WEBB
PHONE 45.5815.733
PEPRESENTATIVE
TONY DINGES
PHONE
EMAIL TONYDISCEROADBAND.COM

SCADA CONTROL CONDUITS AND WIRING

SITE GENERAL NOTES:

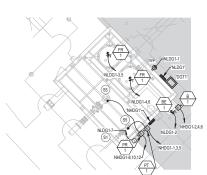
- ROUTE CONDUITS A MINIMUM OF 2' BELOW THE BUILDING FLOOR SLAE

KEYED NOTES (#)

- PROVIDE ALL REQUIRED BACKFILLING, ETC. FOR ALL CONDUITS, PROVIDE REQUIRED BACKFILL MATERIAL AS DIRECTED BY EACH UTILITY.
- COORDINATE ALL LOCATIONS AND ROUTING WORK IN THE FIELD.

- CONDUIT ROUTING SHOWN IS SCHEMATIC AND FOR CLARIFICATION COORDINATE LOCATION WITH ALL AFFECTED TRADES.

3 ENLARGED LIFT STATION PLAN
SCALE: 1" = 20'-0"



State of Utah UTILITY COORDINATION REQUIREMENTS

Division of Facilities



http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY **PROJECT**



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

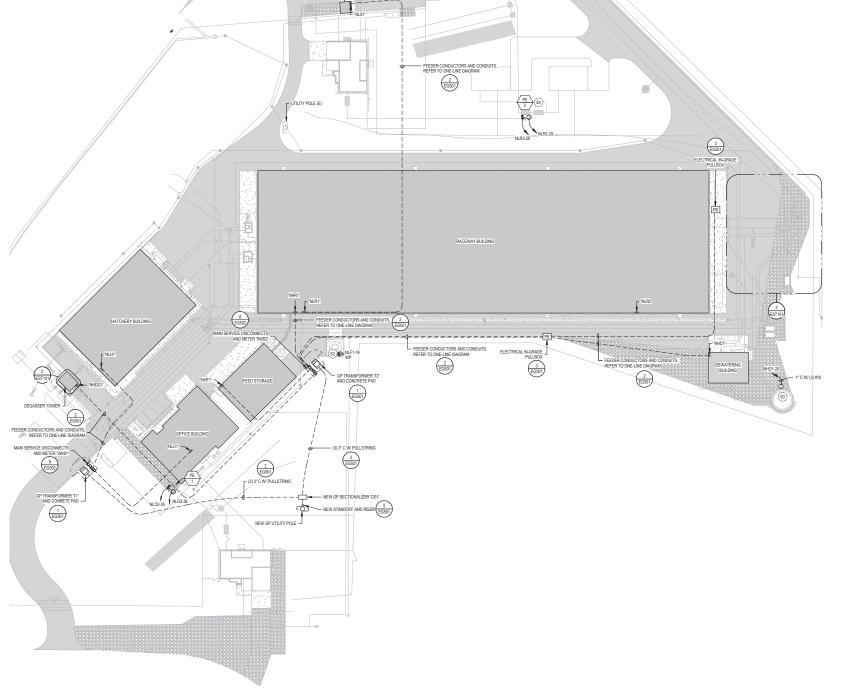
DJECT NO: 2023562 DRAWN BY: CHK'D BY: COPYRIGHT:

DRAWING TITLE

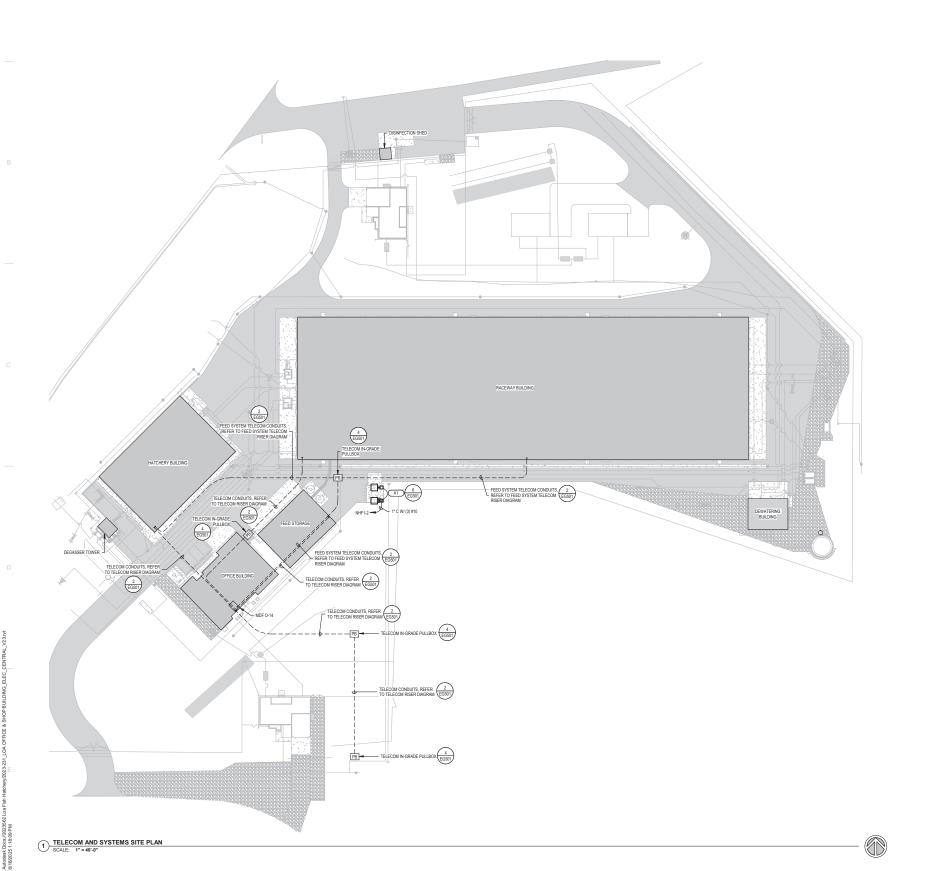
ELECTRICAL SITE PLAN

DRAWING NUMBER

EST101 114 OF 268







State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, PL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DRAWING TITLE

TELECOM AND LIGHTING SITE PLAN

DRAWING NUMBER

EST102 115 OF 268

KEYED NOTES #

LIGHTING GENERAL NOTES:

POWER GENERAL NOTES:

ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.

SYSTEMS GENERAL NOTES:

COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT

State of Utah



Division of Facilities Construction & Management 313 South 2700 West, PL 3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

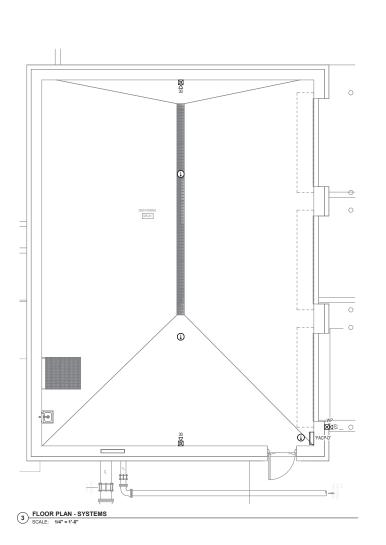
PROJECT NO: 2023562 BIM FILE:

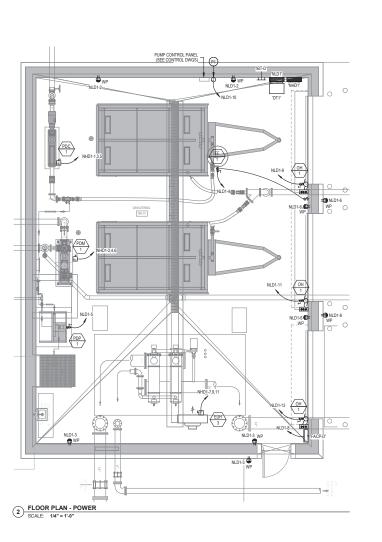
DRAWING TITLE

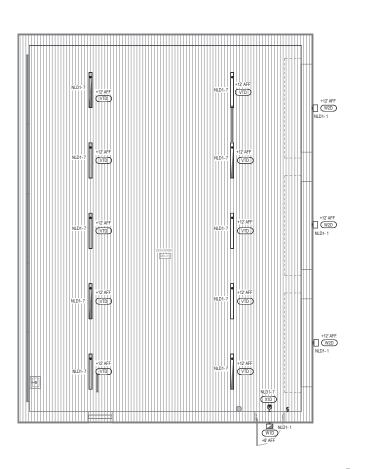
FLOOR PLANS -LIGHTING, POWER, AND SYSTEMS

DRAWING NUMBER

ED101 131 OF 268







	DEWATERING BUILDING EQUIPMENT SCHEDULE																			
UNIT NA	ME		El	LECTRIC	AL INPL	AL INPUT		FEEDER						STAR	STARTER/DISCONNECT/CONNECTION TO UNIT					
			LOAD	TVDE	VOI TO	PHASE	AMPS	QTY	CONDUIT		WIRE		NOTE	STARTER	OC			ONNECT		
TYPE	No.	DESCRIPTION	LOAD			FIIAGE		411	SIZE	QTY	SIZE	EQPT GND		SIZE	SIZE	POLE	SIZE	POLE	ENCLOSURE	REMARKS
EF		EXHAUST FAN	7.2	FLA	120 V	1	7.2 A	1	3/4"	2	12	12	1A	1HP	1HP	1	1HP	1	NEMA 3R	
EUH		ELECTRIC UNIT HEATER	25	KVA	480 V	3	30.1 A	1	1"	3	8	8	9A	NA.	40	3	60	3	NEMA 3R	
OH		OVERHEAD DOOR	0.75	HP	120 V	1	13.8 A	1	3/4"	2	10	10	1A	1HP	1HP	1	1HP	1	NEMA 3R	
PDC		SLUDGE PROGRESSIVE CAVITY FEED PUPMP	7.5	HP	480 V	3	11 A	1	3/4"	3	12	12	9A	NA NA	1HP	3	30	3	NEMA 3R	ROUTE POWER FOR THE PUMP THRUOGH PUMP CONTROL PANEL. REFER TO FLOOR PLANS FOR LOCATION
PDM	1	SLUDGE MIXER PUMP	7.5	HP	480 V	3	11 A	1	3/4"	3	12	12	9A	NA	1HP	3	30	3	NEMA 3R	ROUTE POWER FOR THE PUMP THRUOGH PUMP CONTROL PANEL. REFER TO FLOOR PLANS FOR LOCATION
PDP	1	POLYMER FEED PUMP	0.25	HP	120 V	1	5.8 A	1	3/4"	2	12	12	1A	1HP	1HP	1	1HP	1	NEMA 3R	ROUTE POWER FOR THE PUMP THRUOGH PUMP CONTROL PANEL. REFER TO FLOOR PLANS FOR LOCATION

2

STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:

- MANUAL STATER WITH THERMAL OVERLOAD

 MANUAL STATER WITH THERMAL OVERLOAD

 MANUAL STATER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR

 MANUAL STATER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR

 12. DUPLEX RECEPTAGLE OUTLET

 13. SPECIAL PURPOSE OUTLET

 14. TOGGLE SWITCH

 15. MAGNARIC STATTER / MOTOR CIRCUIT PROTECTOR (MCP)

 15. MAGNARIC STATTER / MOTOR CIRCUIT PROTECTOR (MCP)

 17. FISCO ELEVATOR SWITCH

 18. CONTROL PANEL

 18. CONTROL PANEL

 18. CONTROL PANEL

 19. FOR TOWN OF THE MOTOR CIRCUIT PROTECTOR (MCP)

 17. FISCO ELEVATOR SWITCH

 18. CONTROL PANEL

 18. CONTROL PANEL

- FUSED DISCONNECT SWITCH 0. ENCLOSED CIRCUIT BREAKER

GENERAL NOTES:

SUPPLIED.
ALL CONNOTORS USED SHALL BE COPPER.
ALL CONNOTORS USED SHALL BE COPPER.
ALL CONNOTORS USED SHALL BE COPPER.
BE CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
BELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.
SEZE ALL FUSIES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

DEWATERING BUILDING LIGHT FIXTURE SCHEDULE

				,,,,,	O E.O	MIGHT GOILEDGEE	
			ELEC1	RICAL	APPROVED	CATALOG INFORMATION	
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES
VTD	4' LINEAR LED VAPOR TIGHT FIXTURE WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 6000 LUMENS 4000K	120 V	12	COOPER(OR APPROVED EQUAL)	4VT3-LD5-6-W-120V-(*EL10W)-L840	* - PROVIDE WITH INTEGRAL BATTER' PACK WHERE SHOWN ON DRAWINGS
W1D	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHT/OCCUPANCY SENSOR	LED 1800 LUMENS 4000K	120 V	14	COOPER(OR APPROVED EQUAL)	AXCS1A * WPS2XX CBP	*- ARCHITECT TO SELECT STANDARD COLOR FINISH
W2D	LED EXTERIOR WALLPACK WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR	LED 3500 LUMENS 4000K	120 V	27	COOPER(OR APPROVED EQUAL)	AXCS3A * WPS6XX	*-ARCHITECT TO SELECT STANDARD COLOR FINISH
X1D	LED WALL MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	120 V	2	COOPER(OR APPROVED EQUAL)	PNL G U	

LIGHT FIXTURE GENERAL NOTES

- 1. REFER TO THE ARCHITECTURAL REPLECTED CELING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FEXTURES WITH ARCHITECTURAL ELEVATIONS AND OR ARCHITECT.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FEXTURES WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
 4. CONFIRM AUMLABLE MOUNTING DEPTHS OF ALL LIGHT FEXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
 5. ALL LIGHT FEXTURES ARE TO BE A MINIMUM OF BUCK IN THE PROPRIED OF EXPERIENCE APPLICATIONS, UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 5. ALL LIGHT FEXTURES ARE TO BE A MINIMUM OF BUCK IN THE PROPRIED OF PRIVATE OF THE PROPRIED OF THE

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFED OR APPROVED BY ADDENDUM.
 2. PACKAGING OF LIGHT FISTURES WITH OTHER SYSTEMS IS NOT ALLOWED AND MUST BE BID SEPARATELY. LE LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.
 3. WHEN DALY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.
 WHEN A CONTRACTOR OF STREE SET WEEKE AS SPECIFIC MODEL NUMBER AND IT HE DESCRIPTION, THE DESCRIPTION SHALD SECRIPTION SHALD.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- I. PRIDG A PPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.

 2. PRIOR A PPROVALS IS REQUIRED BEFORE BIDDING THIS PROJECT.

 2. PRIOR A PPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (B) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.

 3. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.

 4. IT S NOT THE KESPONSBULTY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE

 5. PRIOR APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. ALL SPICE/FICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC

 DATA WILL NOT BE APPROVED.

 1. IGHTIND PAGAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS. ANY FIXTURES THAT

 ARE NOT TRILLY EQUIAL, AND (OR DO NOT COMPLY WITH ALL OF THE REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS, WILL NOT BE APPROVED. IF EQUIMENT IS DISAPPROVED FOR BIDDING, CONTRACTOR SHALL

 SUPPLY SPECIFIED EQUIPMENT AT NO EXTRA COST TO THE OWNER.

PANEL NAME: NHD1 FEED FROM: SPD: CAT A NEUTRAL RATING: 100% ISOLATED GROUND: NO MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: DOOR-IN-DOOR MAIN TYPE: MCB BUS RATING: 225 A MCB RATING: 200 A Min. A.I.C. RATING: 22,000A BUS MATERIAL: COPPER BRANCH BREAKERS FUTURE PUMP

PANELBOARD SCHEDULE

A. FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS B. PURNISHED & INSTALLED UNDER AND THER UTWANTA REQUIREMS CONTROLLED AND THE UNISH AND THE UNISH AND THE DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION &
PURNISHED UNDER ANOTHER DIVISION &
PURNISHED INSTALLED & CONNECTED UNDER ANOTHER DIVISION &
PURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

3

PANEL BOARD SCHEDULE

										-					
	PANEL	NΑ	ME	: NL	D1			LOCATION: DEW	ATER	ING DW	/-01		FEED FROM:	DT1	
	MOUNTING: SURFACE				VO	LTAGE: 120/208 W	ye	MAIN TYPE: MCB					SPD:	CAT A	
ENCLOSURE: NEMA 1						PHASE: 3		BUS RATING: 100 A	A			NE	UTRAL RATING:	100%	
DOOR TYPE: DOOR-IN-DOOR						WIRES: 4		MCB RATING: 100 A	A			ISOL	ATED GROUND:	NO	
				Min. A	A.I.C. F	RATING: 10,000A	BL	IS MATERIAL: COP	PER						
	BRANCH BREAKERS														
ΕD	CIRCUIT DESCRIPTION	AMP	POLE	LOAD	CKT		_		CKT	LOAD TYPE	POLE	AMP	CIRCUIT DE	SCRIPTION	K
Έ			1 /	ITPE	#	_ A	В	С	#	TYPE					1.

	MIN. ALIC, RATING: 10,000A BUS MATERIAL: COPPER																
	BRANCH BREAKERS																
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	,	Α.		В	С		CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYED
	LTG:EXTERIOR	20 A	1	L	1	95 VA	360 VA					2	CO	1	20 A	RC:CONV OUTLETS	
	RC:CONV OUTLETS	20 A	1	CO	3		5		864 VA			4	M	1	20 A	EF-1	
	PDP-1	20 A	1	M	5					696 VA	720 VA	6	CO	1	20 A	RC:CONV OUTLETS	
	LTG: INTERIOR	20 A	1	L	7	482 VA						8	E	1	20 A	FACP-D	
	E:OH DOOR	25 A	1	M	9		1		600 VA			10	E	1	20 A	E:RTU PANEL	
	E:OH DOOR	25 A	1	M	11					1656 VA	0 VA	12	-	1	20 A	-SPARE-	
	E:OH DOOR	25 A	1	M	13	1656 VA	0 VA					14		1	20 A	-SPARE-	
	-SPARE-	20 A	1		15			0 VA	0 VA			16		1	20 A	-SPARE-	
	-SPARE-	20 A	1		17					0 VA	0 VA	18	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		19	0 VA	0 VA 0 VA					20	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		21			0 VA	0 VA			22	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		31	0 VA	0 VA					32		1	20 A	-SPARE-	
	-SPARE-	20 A	1		33			0 VA	0 VA			34		1	20 A	-SPARE-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-	
	-SPACE ONLY-		1		37	-	0 VA					38	-	3	40 A	SPD	
	-SPACE ONLY-		1		39				0 VA			40					
	-SPACE ONLY-		1		41						0 VA	42					
	TOTAL CONNECTED LOAD PER PHASE (VA						3093 VA		0 VA	3072	2 VA						
	TOTAL CONNECTED CURRENT PER PHASE (AMPS						A .	31	I A	26	A						

OAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
QUIPMENT	1100 VA	100.00%	1100 VA		
IGHTING	577 VA	125.00%	721 VA	Total Conn. Load:	9825 VA
fotor	6528 VA	106.34%	6942 VA	25% OF LARGEST MOTOR:	
ECEPTACLE	1620 VA	100.00%	1620 VA	Total Est. Demand:	10383 VA
				Total Conn. Current:	27 A
				Total Est. Demand Current:	29 A

PANELBOARD SCHEDULE KEYED NOTE:

- PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.

 2 PROVIDE ARC PAULT OKCULTI NITERRUPTER TYPE CIRCUIT BREAKER.

 2 PROVIDE SHANT THE PROCULT BREAKER WITH 120 V COIL.

 5 PROVIDE SHANT THE PROCULT BREAKER WITH 120 V COIL.

 6 PROVIDE HACH RATED GROUT BREAKER.

 6 PROVIDE HACH CATED CAPE OF A PLOUDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.

- 7. PROVIDE SWITCHING RATED CIRCUIT BREAKER.
 8. PROVIDE NEW CIDEUT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.L.C. RATING AS EXISTING.
 9. PRINTING LOB

State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900

> ENVISION 240 E. MORRIS AVE. SUITE 2 SALT LAKE CITY, UT 84115 P (801) 534-1130

PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DECM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DECM PROJECT NO: 24204520 JECT NO: 2023562 IM FILE: PYRIGHT

DRAWING TITLE

ELECTRICAL SCHEDULES

DRAWING NUMBER

ED600 132 OF 268

NLF1- 5 W2F +16' AFF NLF1- 5 W2F +16' AFF NLF1- 1 W2F +16' AFF NLF1-1 W1F +9' AF NLF1-.5
WIF AFF
X1F +16' AFF W2F NLF1-1 NLF1-10-U1F +18' AFF-(TYP)-NLF1-9 U1F +18' AFF (TYP) U1F NLF1-,9 W2F NLF1-1 W2F L +16' AFF W2F NLF1-1 +16' AFF W2F NLF1-5

REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.

5

LIGHTING GENERAL NOTES:

PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS.

KEYED NOTES (#)

State of Utah



Division of Facilities Construction & Management 315 South 2700 West, PL 3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



ISSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DFCM PROJECT NO: 24204520 PROJECT NO: 2023562 BIM FILE:

DRAWN BY: CHK'D BY: COPYRIGHT:

DRAWING TITLE

FLOOR PLAN -LIGHTING

DRAWING NUMBER

EF101 146 OF 268

FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"

2

POWER GENERAL NOTES:

PROVIDE HUBBELL HBL125123R20M1Y (OR APPROVED EQUAL) CORD RE WITH 25FT RETRACTABLE CORD AND (1) DUPLEX RECEPTACLE AT THE END.

KEYED NOTES (#)

ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.

Division of Facilities Construction & Management 315 South 2700 West, FL3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

State of Utah

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY

PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

PROJECT NO: 2023562 BIM FILE:

DRAWING TITLE

FLOOR PLAN -POWER AND TELECOM

DRAWING NUMBER

EF201_{147 OF 268}

The state of the s

2

0 FEED STORAGE F-02 FLEET GARAGE F-01 0 1

State of Utah SYSTEMS GENERAL NOTES:

5

KEYED NOTES #

COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.

THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
ALL CONDUITS THAT TERMINATE ABOVE THE CELLING SHALL TERMINATE WITH NYLON BUSHING.







SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



CONTR	REVISIONS CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.								
No.Δ	DATE	DESCRIPTION							
		· · · · · · · · · · · · · · · · · · ·							
ISS	ISSUE TYPE: CONST. DOCUMENTS								

ISSUE DATE: JUNE 20, 2025

DRAWN BY: CHK'D BY: COPYRIGHT:

DRAWING TITLE

SYSTEMS

DRAWING NUMBER

EF301_{148 OF 268}

2

Division of Facilities Construction & Management 4315 South 2700 West, PL 3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230



http://dfcm.utah.gov

ESIGNED BY:

PREPARED BY:



UTAH DIVISION OF



LAST R	ACTOR TO VERI EVISION DATE.	FY DRAWINGS IN FIELD USE REFLECT
No.Δ	DATE	DESCRIPTION
_		

PROJECT NO: 2023562 BIM FILE:

FLOOR PLAN -

	FLEET TRUCK GARAGE & FEED STORAGE LIGHT FIXTURE SCHEDULE														
			ELECT	TRICAL	APPROVED	CATALOG INFORMATION									
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES								
	8' LINEAR SUSPENDED UTILITY STRIP LIGHT WITH INTEGRAL OCCUPANCY SENSOR AND BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 6154 LUMENS 4000K	120 V		COOPER (OR APPROVED EQUAL)		* - PROVIDE WITH INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS								
W1F	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHT/OCCUPANCY SENSOR	LED 1800 LUMENS 4000K	120 V	14	COOPER (OR APPROVED EQUAL)	AXCS1A*WPS2XXCBP	* - ARCHITECT TO SELECT STANDARD COLOR FINISH								
W2F	LED EXTERIOR WALLPACK WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR	LED 3500 LUMENS 4000K	120 V	27	COOPER (OR APPROVED EQUAL)	AXCS3A * WPS4XX	* - ARCHITECT TO SELECT STANDARD COLOR FINISH								
X1F	LED WALL MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	120 V	2	COOPER (OR APPROVED EQUAL)	PNL G U									

2

LIGHT FIXTURE GENERAL NOTES

- 1. REFER TO THE ARCHITECTURAL REFLECTED DELING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND JOR ARCHITECT.
 3. REFER TO THE SPECIPICATIONS FOR OTHER LIGHT FIXTURE REQUIREMENTS.
 3. REFER TO THE SPECIPICATIONS FOR OTHER LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
 4. ALL LIGHT FIXTURES ARE TO BE A SIMMON OF BOTH OF THE PRIOR OF THE ATTENTION OF THE ARCHITECT AND THE FIXTURES ARE TO BE A MINIMUM OF 80 OR LINKLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 4. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 OR MINIMUM OF BOTH ON THE PRIOR OF THE PRIOR OF THE PRIOR OF THE ATTENTION OF THE ARCHITECT AND THE PRIOR OF TH

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED, AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.
 3. WHEN ONLY ONE PRODUCT IS A PROPROVED FOR BIDDING. THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.
 4. WHEN A CONTRACTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVALS HALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (B) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 3. TIRMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.
 4. IT IS DAY. THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTEY THE SUBMITTHE ADDENDUM SHALL BE CLEARLY MARKED. PRIOR TO ISSUANCE OF THE
 5. PRIOR APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEEN SUBMITTED AS EQUIVALENTS. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC
 DATA WILL NOT BE APPROVED.
 6. ICHINTOR PROJECTS
 6. ICHINTOR P

FLEET TRUCK GARAGE AND FEED STORAGE EQUIPMENT SCHEDULE
--

UNIT N	ME		E	LECTRIC	AL INP	UT				FEEDE	R			STARTI	ER/DISCONN	IECT/CON	NECTION TO	O UNIT		
		DESCRIPTION					AMPS		CONDUIT		WIRE		NOTE	STARTER	OC	P	DISCOR	NECT	ENCLOSURE	REMARKS
TYPE	No.	DECORAL FIGH	LOAD	TYPE	VOLTS	PHASE	74111 0	QTY	SIZE	QTY	SIZE	EQPT GND		SIZE	SIZE	POLE	SIZE	POLE	LINGEGOONE	TEMPLUTO
EF	2	EXHAUST FAN	7.2	FLA	120 V	- 1	7.2 A	1	3/4"	2	12	12	1A	-	-	-	1HP	1	NEMA 1	
FA	1	FEED AUGER	0.75	HP	120 V	- 1	13.8 A	1	3/4"	2	10	10	1A	-	-	-	1HP	1	NEMA 1	
FA	2	PORTABLE FEED AUGER	3	HP	480 V	3	4.8 A	1	3/4"	3	12	12	10A	-	8	3	30	3	NEMA 3R	
FS	MCP	FEED SYSTEM MAIN CONTROL PANEL	80	FLA	480 V	3	80 A	1	2"	3	1	8	10B		NA	NA	100	3	NEMA 1	
OH	1	OVERHEAD DOOR	0.75	HP	120 V	- 1	13.8 A	1	3/4"	2	10	10	1A	-	-	-	1HP	1	NEMA 1	
UH	1	ELECTRIC UNIT HEATER	3.9	FLA	120 V	- 1	3.9 A	1	3/4"	2	12	12	1A	-	-	-	1HP	1	NEMA 1	
UH	2	ELECTRIC UNIT HEATER	3.9	FLA	120 V	- 1	3.9 A	1	3/4"	2	12	12	1A	-	-	-	1HP	- 1	NEMA 1	
	STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:																			
		CTADTED WITH THEDMAL OVEDLO									DOED CIDO								D DIVISION 36	

- - 11. PRICEOSE ORNOUT BRANKER
 12. DIRECT CONNECTION
 13. DUPLEX RECEPTACLE OUTLET
 14. SPECIAL PURPOSE OUTLET
 15. TOGGLE SWITCH
 16. PILOT SWITCH
 17. FUSED ELEVATOR SWITCH
 18. MOTOR RATED SWITCH
 19. CONTROL PANEL
- START ER/DISCONNECT/CONNECTION AT UNIT NOTES:

 1. MANUAL STARTER WITH THERMAL OVERLOAD

 2. MANUAL STARTER WITH THERMAL OVERLOAD

 3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT

 4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

 5. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

 6. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

 6. COMBINATION VARIBLE REFOLUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)

 7. COMBINATION VARIBLE REFOLUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)

 8. REDUCED VOLTAGE STARTER

 9. NON-FUSED DISCONNECT SWITCH

 10. FUSED DISCONNECT SWITCH

 10. FUSED DISCONNECT SWITCH

GENERAL NOTES:

3

SENEMAL INCLIES.

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED.

SUPPLIED.

SUPPLIED.

SEED THAT OF THE PROPERT SHALL BE COPPER.

SEED THAT OF THE PROPERT SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.

SECONDATION SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIREMENTS ON NECTION BY ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIREMENTS ON NECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGHIN.

SEED ALL PROPERTY AND CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIREMENTS PRIOR TO ROUGHIN.

	PANEL NAME: NHF1 MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: DOOR:N-DOOR WIRES: 4 Min. ALC RATING: 22.00								BUS RATING: 225 A NEUTRAL RATING: 100% MCB RATING: 200 A ISOLATED GROUND: NO BUS MATERIAL: COPPER									
								BRANCI	H BREA	AKERS								
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD			A		В		C	CKT #	LOAD	POLE	AMP	CIR	CUIT DESCRIPTION	KEYE
	FA-2	20 A	3	M	1	1330 VA	0 VA					2		1	20 A	LTG:OX	YGEN CONTAINER	
		-			3			1330 VA	0 VA			4		3	20 A	-SPARE	-	
	-	-		-	5					1330 VA	0 VA	6		-				-
	-SPACE ONLY-	-	1	-	7		0 VA					8		-				-
	-SPACE ONLY-	-	1		9							10		1		-SPACE	ONLY-	
	-SPACE ONLY-	-	1		11							12		1		-SPACE	ONLY-	
	-SPACE ONLY-	-	1	-	13		-					14		1		-SPACE	ONLY-	
	-SPACE ONLY-	-	1	-	15			-				16		1		-SPACE	ONLY-	
	-SPACE ONLY-	-	1	-	17					-	-	18	-	1	-	-SPACE	ONLY-	
	-SPACE ONLY-	1 -	1	-	19							20		1		-SPACE	ONLY-	
	-SPACE ONLY-	-	1	-	21			-				22		1		-SPACE	ONLY-	_
	-SPACE ONLY-	+-	1	-	23							24		1		-SPACE	ONI Y-	
	-SPACE ONLY-	+	1	-	25		-					26		1		-SPACE		
	-SPACE ONLY-	-	1	-	27			-				28		1		-SPACE	ONLY-	
	-SPACE ONLY-	T	1	-	29					-		30		1		-SPACE	ONLY-	_
	-SPACE ONLY-	+ -	1	-	31		0 VA					32		3	40 A	SPD		_
	-SPACE ONLY-	+-	1	-	33				0 VA			34		-		_		-
	-SPACE ONLY-	+-	1	-	35					-	0 VA	36		-		_		-
	FEED SYSTEM	100 A	3	М	37	22170	5194 V	1				38	M:	3	50 A	FT1		
	_	-			39			22170	4720 VA			40		-				-
	-	+ -			41					22170	5198 VA	42		-				-
	TOTAL CONNECT	TED I O	AD PER	PHAS		2860	4 VA	2823	20 VA		8 VA	-	_	_	_			
1	TOTAL CONNECTED CU						4 A		2 A		4 A	ł						
	TOTAL CONNECTED CO.	KKLIVI	FLKF	INOL (Autr 3)	10	4.0	1 10	£ N	1 10	4.0	ı						
LOAD (CLASSIFICATION			CO	ONNEC	TED LOA	D DI	MAND FA	CTOR	ESTIMATE	D DEMAN	ND D				PANEL	TOTALS	
EQUIPN	MENT				50	0 VA		100.00%	5	50	0 VA							
KITCHE	:N			\neg	18	0 VA	\neg	100.00%	5	18	0 VA			To	tal Con	n. Load:	85613 VA	
LIGHTII	NG				11	12 VA		125.00%	5	139	90 VA		25% (OF LAF	RGEST	MOTOR:		
Motor					805	81 VA		120.63%	5	972	09 VA			Tota	al Est. I	Demand:	102519 VA	
RECEP	TACLE				32	40 VA		100.00%	0.00% 3240 VA Total Conn. Current: 103 A									
												Total	Est. D	emand	Current:	123 A		

PANELBOARD SCHEDULE

					۲A	NE	rr(JAK	D S	<u>CHE</u>	:טט	Lb	:				
	PANEL MOUNTING: SURFACE		ME	: NL		LTAGE: 1	20/200 14/				ION: FLEE		RAGE F	-01		FEED FROM: FT1 SPD: CAT A	
	ENCLOSURE: NEMA 1	-				PHASE: 3		ye			NG: 100				NIE	UTRAL RATING: 100%	
	DOOR TYPE: DOOR-IN	1000	,			WIRES: 4										ATED GROUND: NO	
	BOOK TIPE. BOOKI	4-D00i	`	Min		RATING: 1		MCB RATING: 100 A BUS MATERIAL: COPPER							1301	ATED GROUND. NO	
				IWIIII.	A.I.O. I	OATING.	.,	RANCI			IAL. COF	FLIX					
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD			A -		В	T	3	CKT #	LOAD	POLE	AMP	CIRCUIT DESCRIPTION	KEY NO
	LTG EXTERIOR	20 A	1	L	1	122 VA	500 VA					2	Е	1	20 A	FACP-F	_
	E:CORD REEL	20 A	1	К	3			180 VA	360 VA			4	CO	1	20 A	E:TELECOM RACK	
	LTG EXTERIOR	20 A	1	L	5					122 VA	180 VA	6	CO	1	20 A	E:FEED STRG SYSTEM	\top
	RC:CONV OUTLETS FEED	20 A	1	CO	7	540 VA	1656 VA					8	M	1	25 A	E:OH DOOR	
	LTG FEED STORAGE	20 A	1	L	9			434 VA	434 VA			10	L	1	20 A	LTG FLEET GARAGE	
	EF-2	20 A	1	M	11					864 VA	1656 VA	12	M	1	25 A	E:OH DOOR	
	RC:CONV OUTLETS FEED	20 A	1	co	13	720 VA	1656 VA					14	M	1	25 A	E:OH DOOR	\top
	UH-2	20 A	1	M	15			468 VA	468 VA			16	M	1	20 A	UH-3	
	RC:CONV OUTLETS FLEET	20 A	1	CO	17					720 VA	1656 VA	18	M	1	25 A	FA-1	
	RC:CONV OUTLET OXY TANK	20 A	1		19	0 VA	0 VA					20		1	20 A	-SPARE-	
	RC:CONV OUTLETS FLEET	20 A	1	CO	21			720 VA	1656 VA			22	M	1	25 A	FA-1	
	-SPARE-	20 A	1		23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1		27			0 VA	0 VA			28	-	1	20 A	-SPARE-	
	-SPARE-	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE-	
	-SPARE-	20 A	1		31	0 VA	0 VA					32		3	40 A	SPD	
	-SPARE-	20 A	1		33			0 VA	0 VA			34				-	-
	-SPARE-	20 A	1		35					0 VA	0 VA	36				-	-
	-SPACE ONLY-		1		37	-	-					38		1		-SPACE ONLY-	
	-SPACE ONLY-		1		39							40		1		-SPACE ONLY-	
	-SPACE ONLY-		1		41						-	42		1		-SPACE ONLY-	
	TOTAL CONNECT						4 VA		0 VA		B VA						
	TOTAL CONNECTED CUR	RRENT	PER PI	HASE (AMPS)	44	I A	31	9 A	44	A	ļ					
LOAD (CLASSIFICATION			CC	ONNEC	TED LOA	D DE	MAND FA	CTOR	ESTIMATI	D DEMAN	ND				PANEL TOTALS	
EQUIPMENT						500 VA		100.00%		50	0 VA						
KITCHEN					180 VA			100.00%		180 VA				To	tal Con	n. Load: 15112 VA	
LIGHTII	NG .			1112 VA			125.009		1390 VA 25% OF LA				F LAF	ARGEST MOTOR:			

Motor RECEPTACLE PANELBOARD SCHEDULE KEYED NOTE:

- PROVISE DAYS A GROUND FALL THERRUPTER TYPE CIRCUIT BREAKER.

 2. PROVIDE LASS A GROUND FALLT INTERRUPTER TYPE CIRCUIT BREAKER.

 2. PROVIDE SHOW THE REPORT OF THE PROVIDENCE OF

10080 VA 104.11% 10494 VA 3240 VA 100.00% 3240 VA

State of Utah



Division of Facilities Construction & Management 4315 South 27/00 West, FL 3

Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:

SUNRISE ENGINEERING PREPARED BY:

SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900

> ENVISION 240 E. MORRIS AVE. SUITE 2 SALT LAKE CITY, UT 84115 P (801) 534-1130

PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DECM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DECM PROJECT NO: 24204520 JECT NO: 2023562 IM FILE: PYRIGHT

DRAWING TITLE **ELECTRICAL**

SCHEDULES

DRAWING NUMBER

EF600 149 OF 268

3

A. FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 28.

8. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26.

C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26.

D. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION 27.

FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 28.

LIGHTING GENERAL NOTES:

- KEYED NOTES (#)

State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, FL 3

Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:

SUNRISE ENGINEERING

PREPARED BY: SUNRISE ENGINEERING, LLC

635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



LAST R	ACTOR TO VERI EVISION DATE.	FY DRAWINGS IN FIELD USE REFLECT
No.∆	DATE	DESCRIPTION
_		

ISSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

ECT NO: 2023562

DRAWING TITLE FLOOR PLAN -

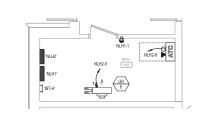
PYRIGHT

LIGHTING

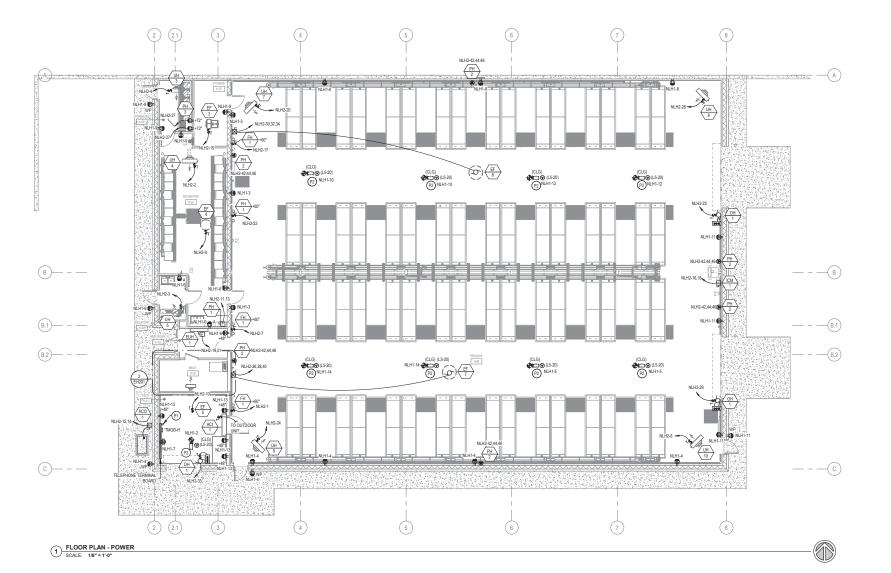
DRAWING NUMBER

EH101 186 OF 268

FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'.0"



2 ENLARGED MECH H-02
SCALE: 1/4" = 1'-0"



POWER GENERAL NOTES:

- ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE

KEYED NOTES (#)

- TELECOM CONDUIT, REFER TO TELECOM RISER DIAGRAM FOR MORE INFORMATION.
- PROVIDE HUBBELL HBL125123R20M1Y (OR APPROVED EQUAL) CORD RE WITH 25FT RETRACTABLE CORD AND (1) DUPLEX RECEPTACLE AT THE END.

State of Utah



http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



LAST REVISION DATE.												
NO.Δ	DATE	DESCRIPTION										
-												

SSUE TYPE: CONST. DOCUMENTS

PROJECT NO: 2023562 BIM FILE:

DRAWING TITLE

FLOOR PLAN -POWER AND TELECOM

DRAWING NUMBER

EH201

	HATCHERY BUILDING LIGHT FIXTURE SCHEDULE													
			ELEC1	TRICAL	APPROVED	CATALOG INFORMATION								
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES							
AQH	CIRCULAR AQUACULTURE LIGHT FIXTURE SUSPENSION MOUNTING	LED 1170 LUMENS DYNAMIC SPECTRUM VARYING COLOR TEMPERATURE	120 V	12	ONCE LIGHTING (SUBSTITUTIONS NOT ACCEPTED)		REFER TO FLOOR PLANS FOR SUSPENSION HEIGHT, PROVIDE ALL REQUIRED WIRELESS CONTROLS FOR A FULL OPERATING SYSTEM. MANF. REP TO PROVIDE A MIN OF 2HR TRAINING TO OWNER AND OWNER REPRESENTATIVES. PROVIDE ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.							
U1H	4'LINEAR LED STRIP LIGHT WITH ROUND LENS AND INTEGRAL EMERGENCY BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 2300 LUMENS 4000K	120 V	5	,		* - PROVIDE WITH INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS							
U2H	4" LINEAR LED STRIP LIGHT WITH ROUND LENS AND INTEGRAL EMERGENCY BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 3500 LUMENS 4000K	120 V	7	COOPER(OR APPROVED EQUAL)		* - PROVIDE WITH INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS LIGHT FIXTURE SHALL HAVE NO UV LIGHT OUTPUT							
VTH	4' LINEAR LED VAPOR TIGHT FIXTURE WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 6000 LUMENS 4000K	120 V	12	COOPER(OR APPROVED EQUAL)	4VT3-LD5-6-W-120V-(*EL10W)-L840	* - PROVIDE WITH INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS							
W1H	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHT/OCCUPANCY SENSOR	LED 1800 LUMENS 4000K	120 V	14	COOPER(OR APPROVED EQUAL)		*-ARCHITECT TO SELECT STANDARD COLOR FINISH							
W2H	LED EXTERIOR WALLPACK WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR	LED 3500 LUMENS 4000K	120 V	27	COOPER(OR APPROVED EQUAL)		*-ARCHITECT TO SELECT STANDARD COLOR FINISH							
X1H	LED WALL MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED		2	COOPER(OR APPROVED EQUAL)	PNL G U								
X2H	LED CEILING MOUNTED EXIT SIGN WITH EMERGENCY LIGHT AND INTEGRAL BATTERY PACK	LED	120 4	2	COOPER(OR APPROVED EQUAL)	PC3 G U								
ХЗН	LED WALL MOUNTED EXIT SIGN WITH EMERGENCY LIGHT AND INTEGRAL BATTERY PACK	LED	120 V	2	COOPER(OR APPROVED EQUAL)	PC3 G U								

2

LIGHT FIXTURE GENERAL NOTES

- 1. REFER TO THE ARCHITECTURAL REFLECTED CELING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT FOR BIDDING.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND JOR ARCHITECT.
 2. CONFIRM AND LAND REFLICATION OF THE LOCATION OF T

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.
 3. WHEN ONLY ONE PRODUCT IS A PHYPOWED OF ROBIOMS, THE PROEF OR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.
 4. WHEN A CONTRACICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEERS OFFICE AT LEAST 18 WORKING DAYS BEFORE BID TIME, PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEERS OFFICE AT LEAST 18 WORKING DAYS BEFORE BID TIME, PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 4. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTIME PARTY OF ERRORS IN THE SUBMITTAL NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE SUBMITTAL NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF EACH OF THE SUBMITTAL NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS IN THE SUBMITTAL AND THE SUBMITTAL NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDISTRUMENT OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ELECT

HATCHERY BUILDING MECHANICAL EQUIPMENT SCHEDULE																				
UNIT NAME ELECTRICAL INPUT FEEDER												STAR	TER/DISCO	NNECT/C	ONNECTION	TO UNIT				
			LOAD	TYPE	VOI TO	PHASE	AMPS	оту	CONDUIT		WIRE		NOTE	STARTER	OC			ONNECT		
TYPE	No.	DESCRIPTION	LOAD			FIIAGE		Q::	SIZE	QTY	SIZE	EQPT GND		SIZE	SIZE	POLE	SIZE	POLE	ENCLOSURE	REMARKS
ACI	1	SPLIT SYSTEM INDOOR UNIT	1	MCA	208 V	1	1 A	-1	3/4"	2	12	12	1A		-	-	1HP	2	NEMA 1	
ACO	1	SPLIT SYSTEM OUTDOOR UNIT	25	MCA	208 V	1	25 A	-1	3/4"	2	8	10	10A		35	2	60	2	NEMA 3R	
EF	3	EXHAUST FAN	0.5	HP	120 V	1	9.8 A	1	3/4*	2	12	12	1A		-	-	1HP	1	NEMA 1	ROUTE POWER FOR EXHAUST FAN THRU SCADA CONTROL SYSTEM JUNCTION BOX. COORDINATE EXACT LOCATION WITH SCADA SYSTEM INSTALLER.
EF	4	EXHAUST FAN	0.25	HP	120 V	1	5.8 A	-1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
EF	5	EXHAUST FAN	0.25	HP	120 V	1	5.8 A	-1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
EF	6	EXHAUST FAN	1	HP	208 V	3	4.6 A	-1	3/4"	-3	12	12	4A		8	3	30	3	NEMA 1	
EF	7	EXHAUST FAN	1	HP	208 V	3	4.6 A	1	3/4"	3	12	12	4A		8	3	30	3	NEMA 1	
EUH	1	ELECTRIC UNIT HEATER	4	KVA	208 V	1	19.2 A	1	3/4"	2	10	10	10A		25	2	30	2	NEMA 1	
FH	1	RADON EXHAUST FAN	0.15	KVA	120 V	1	1.3 A	- 1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
ICM	1	ICE MAKER	14.5	FLA	208 V	1	14.5 A	1	3/4"	2	10	10	10A		20	2	30	2	NEMA 1	
OH	1	OVERHEAD DOOR	0.75	HP	120 V	1	13.8 A	- 1	3/4"	2	- 8	8	1A			-	1HP	1	NEMA 1	
PH	1	SPRING WATER HOSE BIB PUMP	2	HP	208 V	1	13.2 A	- 1	3/4"	2	10	10	10A		20	2	30	2	NEMA 1	
PH	2	FISH PUMP	12	FLA	208 V	3	12 A	-1	3/4"	3	10	10	14A			-	-	-	NEMA 1	NEMA 18-20 RECEPTACLE
PH	3	PERISTALIC PUMP	5	FLA	120 V	1	5 A	- 1	3/4"	2	12	12	12A			-	-	-	NEMA 1	
UH	3	UNIT HEATER	2.4	FLA	120 V	1	2.4 A	1	3/4"	2	12	12	1A		-		1HP	1	NEMA 1	
UH	4	UNIT HEATER	3.9	FLA	120 V	1	3.9 A	-1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
UH	5	UNIT HEATER	1.9	FLA	120 V	1	1.9 A	1	3/4"	2	12	12	1A		-	-	1HP	1	NEMA 1	
UH	6	UNIT HEATER	1.9	FLA	120 V	1	1.9 A	-1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
UH	7	UNIT HEATER	7.5	FLA	120 V	1	7.5 A	-1	3/4"	2	12	12	1A		-	-	1HP	1	NEMA 1	
UH	8	UNIT HEATER	7.5	FLA	120 V	1	7.5 A	-1	3/4"	2	12	12	1A		-		1HP	1	NEMA 1	
UH	9	UNIT HEATER	7.5	FLA	120 V	1	7.5 A	-1	3/4"	2	12	12	1A				1HP	1	NEMA 1	
UH	10	UNIT HEATER	7.5	FLA	120 V	1	7.5 A	-1	3/4"	2	10	10	1A		-	-	1HP	1	NEMA 1	

GENERAL NOTES:

STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:

- I MANUAL STARTER WITH THERMAL OVERLOAD

 I. MANUAL STARTER WITH THERMAL OVERLOAD

 MANUAL STARTER WITH THERMAL OVERLOAD

 MANUAL STARTER WITH THERMAL OVERLOAD

 FOR ATC CONTROL.

 COMBINATION MAGNETIC STARTER I FUSED DISCONNECT

 COMBINATION MAGNETIC STARTER I MOTOR CIRCUIT PROTECTOR (MCP)

 COMBINATION MAGNETIC STARTER I MOTOR CIRCUIT PROTECTOR (MCP)

 COMBINATION WARNELE REACUENCY DRIVE I MOTOR CIRCUIT PROTECTOR (MCP)

 MON-PUSED DISCONNECT SWITCH

 PUSED DISCONNECT SWITCH

 PUSED DISCONNECT SWITCH

 PUSED DISCONNECT SWITCH

 LOSCON CONTROL OF THE MACE IN THE MOTOR CIRCUIT BREAKER 11. DIRECT CONNECTION
 12. DUPLEX RECEPTACLE OUTLET
 13. SPECIAL PURPOSE OUTLET
 14. TOGGLE SWITCH
 15. MACANATIC STARTER
 16. PILOT SWITCH
 17. FUSED ELEVATOR SWITCH
 18. CONTROL PANEL

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT.
ALL COMDUCTORS USED SHALL BE COPPER.
LEICTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
LEICTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
LEICTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN.
SIZE ALL FURSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DECM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DECM PROJECT NO: 24204520 JECT NO: 2023562 IM FILE:

OPYRIGHT DRAWING TITLE

ELECTRICAL SCHEDULES

DRAWING NUMBER

EH600 188 OF 268

						/14 F	בטכ	<u>//\ \</u>	D S	OIIL	-00		•							
	PANEL	. NA	ME	: NL	.H1					LOCAT	ON: MEC	н н-о	2			FEED FROM:				
	MOUNTING: SURFAC	E			VO	LTAGE: 1	20/208 W	ve		MAIN T	PE: MCB	FEED	- -THRU			SPD: CAT A				
	ENCLOSURE: NEMA 1									BUS RAT	NG: 300	Á			NE	NEUTRAL RATING: 100%				
	DOOR TYPE: DOOR-IN	N-DOOR	2			WIRES: 4			MCB RATING: 300 A							ISOLATED GROUND: NO				
				Min.	A.I.C. F	RATING: 2	2.000A		BU	IS MATER	IAL: COP	PER								
							В	RANCH	BREA	KERS										
(EYED	CIRCUIT DESCRIPTION	AMP	POLE	LOAD	CKT #		Δ.		В			CKT #	LOAD	POLE	AMP	CIRCUIT DESCRIPTION	KEYED			
	RECEPTACLE MECH. H-02	20 A	1	CO	1	180 VA	360 VA	_				2	E	1	20 A	E: CORD REEL FEED H-01	1			
	REC:TROUGHS H-08	20 A	1	CO	3	100	-	540 VA	1080 VA			4	CO	1		REC:TROUGHS H-08				
	E: CORD REELS TROUGHS	20 A	1	E	5					720 VA	900 VA	6	CO	1	20 A	RECEPTACLE INCUBATION				
	E:FUTURE DATA RACK	20 A	1	CO	7	360 VA	540 VA					8	CO	1	20 A	REC:TROUGHS H-08	_			
	REC:CONV RECP	20 A	1	CO	9			720 VA	720 VA			10	E	1	20 A	E: CORD REELS TROUGHS				
	REC:TROUGHS H-08	20 A	1	CO	11					720 VA	720 VA	12	E	1	20 A	E: CORD REELS TROUGHS				
	REC: FEED H-01	20 A	1	CO	13	720 VA	720 VA					14	Е	1	20 A	E: CORD REELS TROUGHS				
	LTG:UTILITY ROOMS	20 A	1	L	15			562 VA	68 VA			16	L	-1	20 A	LTG:EXT WALLPACKS				
	LTG:EXT WALLPACKS	20 A	1	L	17					83 VA	736 VA	18	L	1	20 A	LTG: TROUGHS				
	LTG: TROUGHS	20 A	1	L	19	760 VA	736 VA					20	L	-1	20 A	LTG: TROUGHS				
	-SPARE-	20 A	1		21			0 VA	764 VA			22	L	- 1	20 A	LTG: TROUGHS				
	-SPARE-	20 A	1		23					0 VA	0 VA	24	-	- 1	20 A	-SPARE-				
	-SPARE-	20 A	1		25	0 VA	0 VA					26	-	1	20 A	-SPARE-				
	-SPARE-	20 A	1		27			0 VA	0 VA			28	-	- 1	20 A	-SPARE-				
	-SPARE-	20 A	1		29					0 VA	0 VA	30	-	- 1	20 A	-SPARE-				
	-SPARE-	20 A	1		31	0 VA	-					32	-	1		-SPACE ONLY-				
	-SPARE-	20 A	1		33			0 VA				34	-	1		-SPACE ONLY-				
	-SPARE-	20 A	1		35					0 VA		36	-	1		-SPACE ONLY-				
	-SPACE ONLY-		1		37		0 VA					38		3	40 A	SPD				
	-SPACE ONLY-		1		39				0 VA			40	-			-				
	-SPACE ONLY-		1		41					-	0 VA	42	-				-			
	TOTAL CONNECT	ED LO	AD PER	R PHAS	E (VA)	1681	9 VA	1689	8 VA	1634	0 VA									
	TOTAL CONNECTED CUR	RRENT	PER P	HASE (A	AMPS)	14	1 A	14	1 A	13	6 A	l								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
EQUIPMENT	3840 VA	100.00%	3840 VA		
LIGHTING	3709 VA	125.00%	4636 VA	Total Conn. Load:	50056 VA
Motor	36747 VA	103.54%	38047 VA	25% OF LARGEST MOTOR:	
RECEPTACLE	5760 VA	100.00%	5760 VA	Total Est. Demand:	52284 VA
				Total Conn. Current:	139 A
				Total Ect. Domand Current:	14E A

PANELBOARD SCHEDULE KEYED NOTE:

- PAYECLBUAND SUFFICIULE KEYED NOTE:

 1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.

 2. PROVIDE SAM ELAMBRER EQUIPMENT GOLOND FAULT PROTECTOR TYPE CIRCUIT BREAKER.

 3. PROVIDE SAM ELAMBRER EQUIPMENT GOLOND FAULT PROTECTOR TYPE CIRCUIT BREAKER.

 3. PROVIDE SAM ELAMBRER EQUIPMENT GOLOND FAULT PROTECTOR TYPE CIRCUIT BREAKER.

 5. PROVIDE HARD RATED CIRCUIT BREAKER.

 6. PROVIDE HANDLE CLAMP FOR HOLDING GIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.

 7. PROVIDES WITHOUGH SARTED GIRCUIT BREAKER.

 8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.L.C. RATING AS EXISTING.

 8. PROVIDE NEW CIRCUIT BREAKER.

	PANEL MOUNTING: SURFACENCLOSURE: NEMA 1 DOOR TYPE: DOOR-II	Œ			VO	LTAGE: 1 PHASE: 3 WIRES: 4 VATING: 2	2,000A		В	MAIN TO BUS RATI MCB RATI JS MATER	NG: NON	A IE	2			FEED FROM: NLH1 SPD: NONE EUTRAL RATING: 100% LATED GROUND: NO	
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD	CKT #			RANCH	I BKEA	1		CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYE
NOIL	FH-1-RADON FAN	20 A	1	M	1	150 VA	468 VA					2	M	1	20 A	UH-4-UNIT HEATER	INOTE
	UH-5-UNIT HEATER	20 A	1	M	3	100 171	400 171	228 VA	288 VA			4	M	1	20 A	UH-3-UNIT HEATER	_
	UH-6-UNIT HEATER	20 A	1	M	5			LLO VA	200 171	228 VA	900 VA	6	M	1		UH-11-UNIT HEATER	+
	EH-1-RADON FAN	20 A	1	M	7	150 VA	600 VA					8	E	1	20 A	ATC PANEL	_
	FF-4-EXHAUST FAN	15 A	1	M	9	100 171	000 171	696 VA	696 VA			10	M	1		EF-5-EXHAUST FAN	_
	PH-1-SPRING WATER PLIMP	25 A	2	M	11				-	1373 VA	2600 VA	12	M	2		ACO-1-OUTDOOR UNIT	_
	-	-	-		13	1373 VA	2600 VA					14		-		-	-
	EF-3-EXHAUST FAN	20 A	1	М	15			1176 VA	1508 VA			16	M	2	20 A	ICM-1-ICE MAKER	_
	FH-1-RADON FAN	20 A	1	M	17					150 VA	1508 VA	18				-	-
	EUH-1-ELEC UNIT HEATER	25 A	2	М	19	2000 VA	900 VA					20	M	1	20 A	UH-7-UNIT HEATER	+
	_		-		21			2000 VA	150 VA			22	M	1	20 A	FH-1-RADON FAN	
	PH-3-PERISTALIC PUMP	20 A	1	M	23					600 VA	900 VA	24	M	1	20 A	UH-9-UNIT HEATER	
	OH-1-OVERHEAD DOOR	25 A	1	M	25	1656 VA	0 VA					26		1	20 A	-SPARE-	
	PH-3-PERISTALIC PUMP	20 A	1	M	27			600 VA	900 VA			28	M	1	20 A	UH-8-UNIT HEATER	
	OH-1-OVERHEAD DOOR	25 A	1	M	29					1656 VA	552 VA	30	M	3	15 A	EF-6-EXHAUST FAN	
	-SPARE-	20 A	1		31	0 VA	552 VA					32				-	
	OH-1-OVERHEAD DOOR	25 A	1	M	33			1656 VA	552 VA			34				-	
	-SPARE-	20 A	3		35					0 VA	552 VA	36	M	3	15 A	EF-7-EXHAUST FAN	
	-				37	0 VA	552 VA					38				-	
	-				39			0 VA	552 VA			40				-	
	-SPARE-	20 A	3		41					0 VA	1441 VA	42	M	3	20 A	PH-2-FISH PUMP	
	-				43	0 VA	1441 VA					44					
	-				45			0 VA	1441 VA			46					
	-SPACE ONLY-		1		47						-	48		1		-SPACE ONLY-	
	-SPACE ONLY-		1		49		-					50		1		-SPACE ONLY-	
	-SPACE ONLY-		1		51							52	-	1		-SPACE ONLY-	
	-SPACE ONLY-		1		53						-	54		1		-SPACE ONLY-	
	TOTAL CONNECTED CUI					1244			4 VA 4 A		1 VA 4 A						
OAD	CLASSIFICATION			ÇC	NNEC	TED LOA	D DE	MAND FAC	CTOR	ESTIMATE	D DEMAN	ND				PANEL TOTALS	
QUIPN				+-		0 VA	1	100.00%			0 VA	Ť					
Aotor				+	367	47 VA	_	103.54%	,		47 VA	_		Tot	tal Con	n. Load: 37347 VA	
													25% C	F LAR	GEST	MOTOR:	
														Tota	I Est. I	Demand: 38647 VA	
														Total	Conn	Current: 104 A	

2

3

FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 26.
 FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 26
 FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER A

DIVISION 26

D. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION
E. FURNISHED, INSTALLED & CONNECTED BY DIVISION 26

Division of Facilities Construction & Management 4315 South 2700 West, FL 3
Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

State of Utah



ESIGNED BY:

SUNRISE ENGINEERING ENGINEERING

PREPARED BY: SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



LIGHTING GENERAL NOTES:

- PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS.
- KEYED NOTES #

State of Utah



Division of Facilities Construction & Management 313 South 2700 Weet, P.1.3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

OJECT NO: 2023562

DRAWING TITLE

FLOOR PLAN -LIGHTING

DRAWING NUMBER

EO101

POWER GENERAL NOTES:

ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE GFCI.

KEYED NOTES (#)

State of Utah



Division of Facilities Construction & Management 315 South 2700 West, FL3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DJECT NO: 2023562

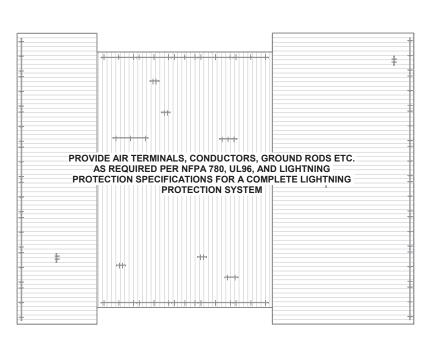
DRAWING TITLE

FLOOR PLAN -POWER AND TELECOM

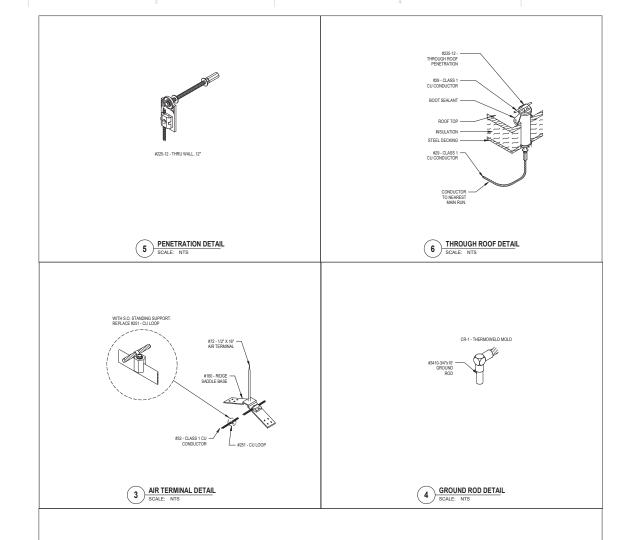
DRAWING NUMBER

EO201

FLOOR PLAN - POWER AND TELECOM
SCALE: 1/4" = 1'-0"



1 ROOF PLAN - LIGHTNING PROTECTION
SCALE: 1/8" = 1'-0"



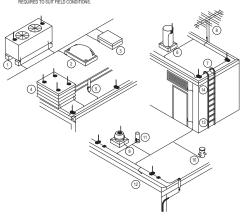
GENERAL & INSTALLATION NOTES:

- BOND TO WATER SERVICE AND OTHER PIPING SYSTEMS AS SHOWN AND AS REQUIRED BY CODES.
- INTERCONNECT LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN OR AS REQUIRED BY CODE.

- COMPLETED INSTALLATION AS SHOWN SHALL BEAR U.L. MASTER LABEL 'C' TO BE SECURED BY SYSTEM INSTALLER PER UL96A.
- ALL MATERIALS SHOWN AND INTENDED FOR USE ARE TO BE SUPPLIED BY VFC LIGHTNING PROTECTION INC., 1409 SOUTH 600 WEST UNIT A, WOODS CROSS UTAH 84087-0077. ALL PART #S ARE VFC PART #S.
- 12 INSTALLATION SHALL COMPLY IN ALL RESPECTS TO L.P.I. CODE 175. INSTALLATION SHALL BE MADE OR UNDER THE SUPERVISION OF AN L.P.I. CERTIFIED MASTER INSTALLER.

BONDING NOTES:

- ITEMS 1-10 ARE TYPICAL BODIES OF CONDUCTANCE AS NOTED BLOW. USE FULL SIZE CONDUCTOR & APPROPRIATE FITTING SHOWN FOR CONNECTION.



2 LIGHTNING PROTECTION
SCALE: NTS

State of Utah

Division of Facilities



http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

DJECT NO: 2023562

DRAWING TITLE

ROOF PLAN -

LIGHTNING PROTECTION

DRAWING NUMBER

EO202

SYSTEMS GENERAL NOTES:

- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.

- ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC., ARE SOHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTERTO OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.

KEYED NOTES (#)

FIRE ALARM HORN STROBE ON A DEDICATED LOOP FOR FIRE DEPARTMENT.

State of Utah



Division of Facilities Construction & Management 315 South 2700 West, FL3 Taylorsville, Utah 8419-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

PROJECT NO: 2023562 BIM FILE:

DRAWING TITLE

FLOOR PLAN -SYSTEMS

DRAWING NUMBER

EO301

TEOOR PLAN - SYSTEMS

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

					Ol	FFIC	E A	١N	D SIT	TE E	QUI	PME	NT S	SCHE	EDUI	E				
UNIT NA	ME		E	LECTRIC	CAL INP	UT				FEEDE	R			STARTI	R/DISCON	NECT/CON	NECTION T	O UNIT		
		DESCRIPTION					AMPS				WIRE		NOTE	0740750	00	P	DISCO	NNECT	ENCLOSURE	REMARKS
TYPE	No.	DESCRIPTION	LOAD	TYPE	VOLTS	PHASE	AMPS	QTY	CONDUIT	QTY	SIZE	EQPT GND	NOIE	STARTER SIZE	SIZE	POLE	SIZE	POLE	ENGLOSURE	REMARKS
ACI	2	SPLIT SYSTEM INDOOR UNIT	1	MCA	208 V	1	1.A	1	3/4"	2	12	12	1A	-		-	1HP	2	NEMA 1	INDOOR UNIT FED FROM OUTDOOR UNIT
ACI	3	SPLIT SYSTEM INDOOR UNIT	1	MCA	208 V	1	1A	1	3/4"	2	12	12	1A			-	1HP	2	NEMA 1	INDOOR UNIT FED FROM OUTDOOR UNIT
ACO	2	SPLIT SYSTEM OUTDOOR UNIT	18	MCA	208 V	1	18 A	1	3/4"	2	10	10	10A	-	25	2	30	2	NEMA 3R	
ACO	3	SPLIT SYSTEM OUTDOOR UNIT	18	MCA	208 V	1	18 A	1	3/4"	2	10	10	10A	-	25	2	30	2	NEMA 3R	
В	1	BUBBLE BLOWER MOTOR	5	HP	480 V	3	7.6 A	1	3/4"	3	12	12	10A	-	15	3	30	3	NEMA 3R	
BE	1	BLOWER ENCLOSURE	5	FLA	120 V	1	5 A	1	3/4"	2	12	12	1A	-			1HP	1	NEMA 3R	
CU	1	CONDENSING UNIT	32.8	MCA	208 V	1	32.8 A	-1	3/4"	2	6	10	10A	-	45	2	60	2	NEMA 3R	
CU	2	CONDENSING UNIT	32.8	MCA	208 V	- 1	32.8 A	-1	3/4"	2	6	10	10A	-	45	2	60	2	NEMA 3R	
EF	8	EXHAUST FAN	0.25	HP	120 V	1	5.8 A	-1	3/4"	2	12	12	1A	-	-		1HP	1	NEMA 1	
EF	9	EXHAUST FAN	0.25	HP	120 V	- 1	5.8 A	-1	3/4"	2	12	12	1A	-		-	1HP	- 1	NEMA 1	
EF	10	EXHAUST FAN	0.25	HP	120 V	- 1	5.8 A	-1	3/4"	2	12	12	1A	-			1HP	- 1	NEMA 1	
EF	11	EXHAUST FAN	7.2	FLA	120 V	1	7.2 A	-1	3/4"	2	12	12	1A	-	-		1HP	1	NEMA 1	
EF	12	EXHAUST FAN	7.2	FLA	120 V	- 1	7.2 A	-1	3/4"	2	12	12	1A	-			1HP	- 1	NEMA 1	
EUH	2	ELECTRIC UNIT HEATER	4	KVA	208 V	1	19.2 A	-1	3/4"	2	10	10	10A	-	25	2	30	2	NEMA 1	
EWH	1	ELECTRIC WATER HEATER	12.3	KVA	208 V	- 1	59.1 A	-1	1"	2	3	8	10A	-	80	2	100	2	NEMA 1	
F	1	FURNACE	19.6	MCA	120 V	1	19.6 A	-1	3/4"	2	10	10	10A	-	25	1	30	1	NEMA 1	
F	2	FURNACE	19.6	MCA	120 V	- 1	19.6 A	-1	3/4"	2	10	10	10A	-	25	1	30	1	NEMA 1	
FR	1	RADON DEGASSING FAN	0.75	HP	208 V	1	7.6 A	1	3/4"	2	12	12	1A	-	-		1HP	2	NEMA 3R	ROUTE POWER FOR EXHAUS' FAN THRU SCADA CONTROL SYSTEM JUNCTION BOX. COORDINATE EXACT LOCATION WITH SCADA SYSTEM INSTALLER.
OH	1	OVERHEAD DOOR	0.75	HP	120 V	1	13.8 A	1	3/4"	2	10	10	1A	-			1HP	1	NEMA 1	
PDL	1	WASTEWATER SUBMERSIBLE LIFT PUMP	25	HP	480 V	3	34 A	1	1 1/4"	3	4	8	12A	-			-			
PE	1	EFFLUENT WASTE WATER PUMP	0.5	HP	120 V	- 1	9.8 A	- 1	3/4"	2	12	12	1A	-			1HP	1	NEMA 3R	
PE	2	EFFLUENT WASTE WATER PUMP	0.5	HP	120 V	- 1	9.8 A	1	1"	2	6	6	1A	-			1HP	1	NEMA 3R	
PR	1	RADON DEGASSING PUMP	21	FLA	480 V	3	21 A	1	3/4"	3	10	10	10A	-	30	3	30	3	NEMA 3R	
PS	1	STOCKWATER PUMP AND CONTROL PANEL	- 1	HP	120 V	- 1	16 A	- 1	3/4"	2	10	10	1A	-	-		1HP	- 1	NEMA 3R	
PT	1	TRUCKFILL PUMP	- 5	HP	480 V	3	7.6 A	1	3/4"	3	12	12	10A	-	15	3	30	3	NEMA 3R	
RCP	1	RE-CIRC PUMP	4.4	FLA	120 V	- 1	4.4 A	1	3/4"	2	12	12	1A	-			1HP	1	NEMA 1	
UH	11	UNIT HEATER	3.3	FLA	120 V	- 1	3.3 A	- 1	3/4"	2	12	12	1A	-	-		1HP	- 1	NEMA 1	
UH	12	UNIT HEATER	3.3	FLA	120 V	- 1	3.3 A	1	3/4"	2	12	12	1A	-			1HP	1	NEMA 1	
UH	13	UNIT HEATER	3.3	FLA	120 V	1	3.3 A	1	3/4"	2	12	12	1A	-	-		1HP	- 1	NEMA 1	
WS	1	WATER SOFTENER	0.6	KVA	120 V	- 1	5 A	-1	3/4"	2	12	12	13A				-			
STAR	ΓER	/DISCONNECT/CONNECT	TION A	AT UN	IT NC	TES:		•												
1. MAN 2. MAN FOR 3. CON 4. CON 5. CON 6. CON	IUAL IUAL I ATC IBINA IBINA IBINA	STARTER WITH THERMAL OVERLO, STARTER WITH THERMAL OVERLO, CONTROL. ATION MAGNETIC STARTER / FUSED ATION MAGNETIC STARTER / MON-FI ATION MAGNETIC STARTER / NON-FI ATION VARIABLE FREQUENCY DRIVE IC STARTER	AD AD PROT DISCON R CIRCUI USED DIS	ECTION INECT T PROTI	& LOW ECTOR ECT.	VOLTAG		/ CONT	ACTOR	12. DIREC 13. DUPL 14. SPEC 15. TOGG 16. PILOT 17. FUSE	CT CONNECT EX RECEPT IAL PURPO ILE SWITCH	ACLE OUTI SE OUTLET I R SWITCH	.ET	B. FU UN C. FU DI D. FU	RNISHED & DER DIVISI RNISHED U /ISION 26 RNISHED, II	INSTALLE ON 26 NDER AND NSTALLED	D UNDER A OTHER DIVI: & CONNEC	NOTHER D SION BUT I		

- START ER/DISCONNECT/CONNECTION OF UNIT NOTES:

 1. MANUAL STARTER WITH HERMAL OVERLOAD

 2. MANUAL STARTER WITH HERMAL OVERLOAD

 3. COMBINATION MAGNETIC STARTER / FUSED DISCONNECT

 4. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

 5. COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)

 5. COMBINATION WARDALE PREVOUNCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)

 6. COMBINATION VARDALE PREVOUNCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)

 8. REDUCED VOLTAGE STARTER

 9. NON-FUSED DISCONNECT SWITCH

 10. FUSED DISCONNECT SWITCH

 10. FUSED DISCONNECT SWITCH

GENERAL NOTES:

- SETIMENTAL INUITED.

 CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLICE.

 SUPPLICE OF THE STATE O

			ELEC	TRICAL	APPROVED	CATALOG INFORMATION	
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES
A1	LED AREA LIGHT WTH TYPE 4 DISTRIBUTION INTEGRAL OCCUPANCY AND DAYLIGHT SENSOR	LED 4619 LUMENS 4000K	277 V	33	COOPER (OR APPROVED EQUAL)	GALN-SA1A-840-4-TF4T-*-WPS4XX	*ARCHITECT TO SELECT STANDARD COLOR FINISH
D10	6" LED ROUND DOWNLIGHT WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 1000 LUMENS 4000K	120 V	10	COOPER (OR APPROVED EQUAL)	HC6 10 D010 ("REM7) HM60525 840 61 MD H	*- PROVIDE INTEGRAL BATTERY PAC WHERE SHOWN ON DRAWINGS
D20	6" ROUND LED DOWNLIGHT WITH NON-CONDUCTIVE REFLECTOR SHOWER RATED AND INTEGRAL BATTERY PACK	LED 1000 LUMENS 4000K	120 V	10	COOPER (OR APPROVED EQUAL)	HC6 10 HM6 0525 840 61PS MD W REM7	
LBO	8' LINEAR LOW BAY LED LIGHT WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 14000 LUMENS 4000K	120 V	12	COOPER (OR APPROVED EQUAL)	8LBLED-LD4-14-SYMF-UNV-(*EL14W)-L840-CD-1-U	* - PROVIDE INTEGRAL BATTERY PAC WHERE SHOWN ON DRAWINGS
P10	4' LINEAR ARCHITECTURAL PENDANT MOUNT LIGHT 20% UPPLIGHT 80% DOWNLIGHT WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 250 LUMENS/FT UP 1000 LUMENS/FT DOWN 4000K	120 V	11	COOPER (OR APPROVED EQUAL)	\$02.F-029U-100D-840-1-D-UNIV-STD-(*810)**-AC120-JB-4	*-PROVIDE INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS *ARCHITECT TO SELECT STANDARD COLOR FINISH
P20	6' LINEAR ARCHITECTURAL PENDANT MOUNT LIGHT 20% UPLIGHT 80% DOWNLIGHT WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 250 LUMENS/FT UP 1000 LUMENS/FT DOWN 4000K	120 V	11	COOPER (OR APPROVED EQUAL)	SQ2-F-025U-100D-840-1-D-UNIV-STD-("B10)-"-AC120-JB-6	*-PROVIDE INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS **-ARCHITECT TO SELECT STANDARE COLOR FINISH
U10	4' LINEAR LED STRIP LIGHT WITH ROUND LENS AND INTEGRAL EMERGENCY BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 2300 LUMENS 4000K	120 V	5	COOPER (OR APPROVED EQUAL)	4SNLED-LD5-23SL-LW-UNV-("EL7W)-HB-L840-CD1-U	* - PROVIDE INTEGRAL BATTERY PAC WHERE SHOWN ON DRAWINGS
U20	4' LINEAR LED STRIP LIGHT WITH ROUND LENS AND INTEGRAL EMERGENCY BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 3500 LUMENS 4000K	120 V	7	COOPER (OR APPROVED EQUAL)	4SNLED-LD5-33SL-LW-UNV-("EL7W)-HB-L840-CD1-U	* - PROVIDE INTEGRAL BATTERY PAC WHERE SHOWN ON DRAWINGS
VTO	4' LINEAR LED VAPOR TIGHT FIXTURE WITH INTEGRAL BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 6000 LUMENS 4000K	120 V	12	COOPER (OR APPROVED EQUAL)	4VT3-LD5-6-W-120V-(*EL10W)-L840	* - PROVIDE INTEGRAL BATTERY PAC WHERE SHOWN ON DRAWINGS
W10	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHT/OCCUPANCY SENSOR	LED 1800 LUMENS 4000K	120 V	14	COOPER (OR APPROVED EQUAL)	AXCS1A*WPS2XX CBP	*-ARCHITECT TO SELECT STANDARD COLOR FINISH
W20	LED EXTERIOR WALLPACK WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR	LED 3500 LUMENS 4000K	120 V	27	COOPER (OR APPROVED EQUAL)	AXCS3A*WPS4XX	*-ARCHITECT TO SELECT STANDARD COLOR FINISH
X10	LED WALL MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	120 V	2	COOPER (OR APPROVED EQUAL)	PNL G U	
X20	LED CEILING MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	120 V	2	COOPER (OR APPROVED EQUAL)	PNL G U	

LIGHT FIXTURE GENERAL NOTES

- 1. REFER TO THE ARCHITECTURAL REFLECTED CELLING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 2. CONFRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND JOR ARCHITECT.
 3. REFER TO THE SEPCEPLICATIONS FOR OTHER LIGHT FIXTURES REQUIREMENTS.
 3. REFER TO THE SEPCEPLICATIONS FOR OTHER LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE OF THE ATTENTION AND 4000K FOR EXTERIOR APPLICATIONS, UNLESS OTHERWISE NOTED IN THE FIXTURES BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE OF THE WISE NOTED IN THE FIXTURE DESCRIPTION.
 4. ALL LIGHT FIXTURES ARE TO BE A MINIMUM MULESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 5. CONFRIGM ALL MOUNTING REQUIREMENTS WITH ARCHITECT PRIOR TO RELEASE OF THE PRIOR TO SELECTE PRIOR TO RELEASE OF THE WISE NOTED IN THE FIXTURES ARE TO BE AND AS A REPORT OF THE MINIMUM.

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.

 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.

 3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE FROICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.

 4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 3. FIRMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDINITURES. WERBAL APPROVALS WILL BOT BE GIVEN ON ANY ITEM.
 4. ADDINITURES OF THE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE SUBMITTHE SUBMITTHE SUBMITTHE OFFICE BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 4. ADDINITURES OFFICE ADDINITION OF ERROR BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 4. ADDINITURES OFFICE ADDINITION OF ERROR BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 4. ADDINITURES OFFI ADDINITION OF EXPENSE OF THE SUBMITTHE ADDINITION OF ERROR BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE SUBMITTHE ADDINITION OF ERROR BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE ELECTRICAL ENGINEER TO TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE ELECTRICAL ENGINEER TO TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF EXPENSE OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE ELECTRICAL
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO ISSUANCE OF THE ELECTRICAL
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO IT THE CONTROL OF THE ELECTRICAL
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO IT THE CONTROL OF THE ELECTRICAL
 4. ADDINITION OF THE ELECTRICAL ENGINEER TO IT THE CO

State of Utah

Department of Administrative Services



Division of Facilities Construction & Management 4315 South 2700 West, FL 3

Taylorsville, Utah 84129-2218
Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

DECM PROJECT NO: 24204520 DJECT NO: 2023562

OPYRIGHT DRAWING TITLE

ELECTRICAL SCHEDULES

DRAWING NUMBER

 $EO600\atop{}_{\tiny{216\ OF\ 268}}$

						I I I	LD(JAK	<u>ს ე</u>	CHE	טע:	ᆫ						
	PANEL NA	ME:	: NL	DG	1					10	CATION:					F	EED FROM: DGT1	
	MOUNTING: SURFACE				ve	DLTAGE:	120/208 W	hre			N TYPE:	MCB					SPD: CAT A	
	ENCLOSURE: NEMA 3R				**	PHASE:		.,.			RATING:					MELITO	AL RATING: 100%	
	DOOR TYPE: DOOR-IN-I	noop				WIRES:					RATING:						GROUND: NO	
	DOOK TIPE. DOOK-IN-I	DOOK		Min	ALC	RATING:					TERIAL:		:R			JOLAILI	OKOOND. NO	
					741.0.	ioninio.	.,	ANCH E	BREAK		TEI CITAL	00111						
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	,	A .		В		;	CKT #	LOAD	POLE	AMP	CIR	CUIT DESCRIPTION	KEY
	REC:CONV OUTLETS	20 A	1	CO	1	180 VA	600 VA					2	M	1	20 A	BLOWE	R ENCLOSURE	
	FR-1	20 A	2	M	3			790 VA	790 VA			4	M	2	20 A	FR-1		
				-	5					790 VA	790 VA	6				-		
	E:RTU PANEL	20 A	1	Е	7	100 VA	0 VA					8		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	9			0 VA	0 VA			10		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	11					0 VA	0 VA	12		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	13	0 VA	0 VA					14		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	15			0 VA	0 VA			16		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	17					0 VA	0 VA	18		1	20 A	-SPARE		\top
	-SPARE-	20 A	1	-	19	0 VA	0 VA					20		1	20 A	-SPARE		\top
	-SPARE-	20 A	1	-	21			0 VA	0 VA			22		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	23					0 VA	0 VA	24		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	25	0 VA	0 VA					26		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	27			0 VA	0 VA			28		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	29					0 VA	0 VA	30		1	20 A	-SPARE		\top
	-SPARE-	20 A	1	-	31	0 VA	0 VA					32		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	33			0 VA	0 VA			34		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	35					0 VA	0 VA	36		1	20 A	-SPARE		
	-SPACE ONLY-		1	-	37	-	0 VA					38		3	40 A	SPD		
	-SPACE ONLY-		1	-	39				0 VA			40				-		١.
	-SPACE ONLY-		1	-	41						0 VA	42	-			-		١.
	TOTAL CONNEC	TED LO	AD PER	PHAS	E (VA)	880	VA	158	1 VA	158	I VA					•		
	TOTAL CONNECTED CU	RRENT	PER PI	HASE (AMPS)	7	A	14	1 A	14	A	1						
								-										
	LASSIFICATION			CC		TED LOA	DE DE	MAND FA		ESTIMATE		ND				PANEL	TOTALS	
EQUIPN	IENT					0 VA		100.00%			AV C							
Motor						2 VA		110.51%			7 VA					n. Load:	4042 VA	
RECEP	FACLE				18	0 VA		100.00%	5	18) VA		25% (MOTOR:		
														Tota	I Est. D	Demand:	4437 VA	

	PANEL NA	ME:	NL	.02							CATION:		T O-13			F	EED FROM: NLO1	
	MOUNTING: SURFACE				VC	DLTAGE:	120/208 V	Vye		MA	IN TYPE:	MLO					SPD: NO	
	ENCLOSURE: NEMA 1					PHASE:	3			BUS	RATING:	100 A				NEUTR.	AL RATING: 100%	
	DOOR TYPE: DOOR-IN-DO	OOR				WIRES:	4			MCB	RATING:	NONE			- 1	SOLATE	D GROUND: NO	
				Min.	A.I.C.	RATING:	22,000A			BUS MA	TERIAL:	COPP	ER					
							BR	RANCH E	BREAK	ERS								
NOTE	CIRCUIT DESCRIPTION	AMP	POLE	TYPE	#	,			3		С	CKT #	LOAD TYPE	POLE			CUIT DESCRIPTION	KEYE
	REC: MDF RACK	20 A	1	CO	1	360 VA	396 VA					2	M	1	20 A		INIT HEATER	
	REC: MDF RACK	20 A	1	CO	3			360 VA	528 VA			4	M	1	20 A		RE-CIRC PUMP	
	UH-11-UNIT HEATER	20 A	1	M	5					396 VA	600 VA	6	E	1	20 A		IENT ELECT O-13	
	WS-1-WATER SOFTENER	20 A	1	M	7	600 VA	864 VA					8	M	1	20 A		XHAUST FAN	
	EF-10-EXHAUST FAN	15 A	1	M	9			696 VA	1080 VA			10	CO	1	20 A		B FOURPLEXES	
	EF-11-EXHAUST FAN	20 A	1	M	11					864 VA	1656 VA	12	M	1	25 A		/ERHEAD DOOR	
	EF-9-EXHAUST FAN	15 A	1	M; CO	13	1752 VA	100 VA					14	E	1	20 A	E:ATC P		
	F-2-FURNACE	25 A	- 1	M	15			2352 VA	2000 VA			16	M	2	25 A	EUH-2-E	LECTRIC UNIT HEATER	
	F-1-FURNACE	25 A	1	M	17					2352 VA	2000 VA	18				-		-
	ACO-2- OUTDOOR UNIT	25 A	2	M	19	1872 VA	1872 VA					20	M	2	25 A	ACO-3-	OUTDOOR UNIT	
	-	-			21			1872 VA	1872 VA			22						-
	CU-1-CONDENSING UNIT	45 A	2	M	23					3411 VA	3411 VA	24	M	2	45 A	CU-2-C0	ONDENSING UNIT	
					25	3411 VA	3411 VA					26						-
	EWH-1-ELECTRIC WATER HTR	80 A	2	M	27			6150 VA	0 VA			28		2	25 A	-SPARE	-	
	-			-	29					6150 VA	0 VA	30				-		-
	-SPARE-	25 A	2	-	31	0 VA	4000 VA					32	E	2	50 A	WELDE	R OUTLET	
	-				33			0 VA	4000 VA			34						-
	PE-1	20 A	- 1	M	35					1176 VA	600 VA	36	M	1	20 A	MOTOR		
	-SPARE-	20 A	- 1	-	37	0 VA	0 VA					38		1	20 A	-SPARE		
	-SPARE-	20 A	1	-	39			0 VA	0 VA			40		1	20 A	-SPARE		
	-SPARE-	20 A	-1		41					0 VA	0 VA	42		-1	20 A	-SPARE		
	-SPARE-	20 A	1		43	0 VA	0 VA					44		1	20 A	-SPARE		
	-SPARE-	20 A	- 1		45			0 VA	0 VA			46		1	20 A	-SPARE	-	
	-SPARE-	20 A	- 1	-	47					0 VA	0 VA	48		1	20 A	-SPARE	-	
	-SPACE ONLY-	-	-1	-	49		-					50		1		-SPACE		
	-SPACE ONLY-		- 1	-	51							52		-1		-SPACE		
	-SPACE ONLY-		1		53							54		-1		-SPACE	ONLY-	
	TOTAL CONNECTI	D LOA	D PER	R PHAS	E (VA)	1863	8 VA	2091	0 VA	2261	6 VA							
	TOTAL CONNECTED CUR	RENT F	PER PI	HASE (AMPS)	15	5 A	17	7 A	19	1 A							
	LASSIFICATION			CC		TED LOA	D DE	MAND FA			ED DEMAN	ID				PANEL	TOTALS	
QUIPI	MENT			\perp		10 VA	-	100.00%			00 VA	_					00405114	
lotor				+		05 VA	+	105.99%			80 VA	+					62165 VA	
ECEP	TACLE			_	216	0 VA	-	100.00%	-	216	30 VA	_	25% C			MOTOR:	0504014	
				-			-					\perp					65240 VA	
				- 1			- 1		- 1					ıotal	conn.	Current:	173 A	

	PANEL NA	ME:	: NH	IDG	1					10	CATION:					FEED FROM:	
	MOUNTING: SURFACE				ve	LTAGE:	480/277 W	/vo			N TYPE:	MCB				SPD: CAT A	
	ENCLOSURE: NEMA 3R				VC	PHASE:		, yo			RATING:					NEUTRAL RATING: 100%	
	DOOR TYPE: DOOR-IN-F	OOD				WIRES:					RATING:					SOLATED GROUND: NO	
	DOOR TIPE: DOOR-IN-L	JUUR		Min	ALC I	RATING:					TERIAL:		ED .			SOLATED GROUND: NO	
				wiiii.	A.I.O.	MIIIIO.		ANCH E	BREAK		ILKIAL.	COFF					
KEYED	CIRCUIT DESCRIPTION	AMP	POLE	LOAD	CKT #		Α		В		:	CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYE
	TRUCK FILL PUMP	20 A	3	M	1	2106 VA						2	M	3	20 A	BLOWER MOTOR	
	-	-	-		3			2106 VA	2106 VA			4	-		-		-
	-	-	-		5					2106 VA	2106 VA	6	-	-	-		-
	SPARE FOR FUTURE UV	30 A	3		7	0 VA	5820 VA					8	М	3	40 A	RADON DEGASSER PUMP	
-	-		-		9			0 VA	5820 VA			10					-
-	-	-	-		11					0 VA	5820 VA	12	-	-	-		-
	-SPACE ONLY-	-	1		13							14	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	T	1		15				-			16		1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		17							18	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		19							20	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		21			-	-			22	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		23							24	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		25							26	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		27			-	-			28	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		29							30	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		31							32	-	1	-	-SPACE ONLY-	
	-SPACE ONLY-	-	1		33			-	-			34		1	-	-SPACE ONLY-	
	-SPACE ONLY-		1		35							36		1		-SPACE ONLY-	
	SPD	40 A	3		37	0 VA	880 VA					38	M:	3	50 A	DGT1	
-	-		-		39			0 VA	1581 VA			40	-				-
-	_	-	-		41					0 VA	1581 VA	42	-	-	-		-
	TOTAL CONNECT	ED LO	D PEF	PHAS	E (VA)	1091	2 VA	1161	13 VA	1161	3 VA						
	TOTAL CONNECTED CUI	RRENT	PER PI	ASE (A	AMPS)	39	Α	42	2 A	42	A						
OAD	LASSIFICATION			1 00	NNFC	TED LOA	n DE	MAND FA	CTOR	ESTIMATE	D DEMAN	ın I				PANEL TOTALS	
FOLIPA				+ **) VA		100.00%			0 VA	-				TALLE TOTALS	
Motor				+		58 VA		112.89%			22 VA	+		To	tal Con	n. Load: 34138 VA	
RECEP'	TACLE			+		D VA		100.00%			D VA	\pm	25% C			MOTOR:	
	-			+								-	. ,			Demand: 38502 VA	
				+								+		Total	Conn	Current: 41 A	
				-			-					-				Current: 46 A	

	PANEL NA MOUNTING: SURFACE ENCLOSURE: NEMA 1 DOOR TYPE: DOOR-IN-D		NL			DLTAGE: PHASE: WIRES: RATING:	4 22,000A	/ye		MAI BUS MCB BUS MA	CATION: E IN TYPE: N RATING: 4 RATING: 4 ATERIAL: (MCB, F 100 A 100 A	EED-TI	HRU	ı	FEED FROM: SPD: CAT A NEUTRAL RATING: 100% SOLATED GROUND: NO
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #		A BR		B	T	с	CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION
	E:CORD REEL	20 A	1	K	1	180 VA	396 VA					2	M	1	20 A	UH-12-UNIT HEATER
	REC: BREAK ROOM 0-16	20 A	1	CO	3			360 VA	1200 VA			4	К	1	20 A	REC: FRIDGE BRK ROOM 0-16
	REC: BREAK ROOM 0-16	20 A	1	CO	5					360 VA	720 VA	6	CO	1	20 A	REC: MUD ROOM O-07
	REC: CORRIDOR O-18	20 A	1	CO	7	1080 VA	1176 VA					8	M	1	20 A	REC: SINK DISPOSAL
	REC: RESEARCH O-05 REFR.	20 A	1	K	9			1200 VA	1500 VA			10	Е	1	20 A	E: WASHER
	REC: RESEARCH 0-05	20 A	1	CO	11					720 VA	2500 VA	12	K	2	30 A	E: DRYER
	REC: WOOD SHOP O-08	20 A	1	CO	13	360 VA	2500 VA					14		-		_
	OH-1-OVERHEAD DOOR	25 A	1	M	15			1656 VA	360 VA			16	CO	1	20 A	REC: WOOD SHOP 0-08
	REC: WOOD SHOP O-08	20 A	1	CO	17			1000		360 VA	540 VA	18	CO	1	20 A	REC: ENTRY O-01
	REC: BREAK ROOM O-16	20 A	1	CO	19	540 VA	900 VA					20	CO	1	20 A	REC: WOOD SHOP 0-08
	REC: ELECT 0-13	20 A	1	CO	21	040 171	500 171	540 VA	900 VA			22	CO	1	20 A	REC: WORK/SUPPLY 0-04
	REC:UTILITY ROOMS	20 A	1	CO	23			040 171	500 171	900 VA	900 VA	24	CO	1	20 A	REC: RESEARCH 0-05
	REC: METAL SHOP / GARAGE	20 A	1	CO	25	900 VA	1080 VA			300 171	500 171	26	CO	1	20 A	REC: OFFICE DESKS
	REC: METAL SHOP / GARAGE	20 A	1	co	27	300 VA	1000 VA	900 VA	1080 VA			28	CO	1	20 A	REC: OFFICE DESKS
	REC: SHOP / GARAGE O-10	20 A	1	CO	29			300 VA	1000 VA	1080 VA	1086 VA	30	L	1	20 A	LTG:CENTRAL BUILDING
	LTG:OFFICE BREAKROOM	20 A	1	L	31	726 VA	697 VA			1000 VA	1000 VA	32	L	1	20 A	I TG:SHOP/GARAGE
	LTG:SHOP/GARAGE	20 A	1	Ť	33	720 VA	051 VA	799 VA	69 VA			34	L	1	20 A	LTG:EXT WALLPACKS
	LTG:EXT WALLPACKS	20 A	1	L	35			100 VA	05 VA	42 VA	100 VA	36	E	1	20 A	E:WIRELESS LTG
	E:SCADA PANEL	20 A	1	E	37	600 VA	0 VA			42 VA	100 VA	38	-	1	20 A	-SPARE-
	-SPARE-	20 A	1	-	39	000 VA	UVA	0 VA	0 VA			40	-	1	20 A	-SPARE-
	-SPARE-	20 A	1	-	41			UVA	UVA	0 VA	0 VA	42	-	1	20 A	-SPARE-
	-SPARE-	20 A	1		43	0 VA				0 1/4	0 1/4	44	-	1	20 A	-SPACE ONLY-
	-SPARE-	20 A	1		45	0 1/4		0 VA	-	_		46	-	1	-	-SPACE ONLY-
	-SPARE-	20 A	1	-	45			UVA		0 VA		48	-	1	-	-SPACE ONLY-
	-SPACE ONLY-	20 A	1	-	49		0 VA		_	UVA		50	-	3	40 A	SPD SPD
	-SPACE ONLY-	-	1	-	51		UVA		0 VA	_		52	-		40 A	
	-SPACE ONLY-	-	1		53				UVA		0 VA	54	-		-	-
	TOTAL CONNECT	_	D DEC			0077	4 VA	0447	4 VA		24 VA	34	-		-	-
	TOTAL CONNECTED CUR						8 A		4 A		8 A					
LOAD	CLASSIFICATION			CC	NNEC	TED LOA	D DE	MAND FA	CTOR	ESTIMATE	ED DEMAN	ID 🗌				PANEL TOTALS
EQUIP						00 VA		100.00%	5		00 VA					
KITCHE	N				758	0 VA		80.00%			64 VA					n. Load: 93172 VA
LIGHTII	NG					9 VA		125.00%			74 VA		25% C			MOTOR:
Motor				\perp		33 VA		105.64%			08 VA	\perp				Demand: 92216 VA
RECEP	TACLE				167	40 VA		79.87%		133	70 VA	Т		Total	Conn.	Current: 259 A
													Total	Fet Da	mand	Current: 256 A

2. PROVIDE AND SALIT CIRCUIT INTERRUPTER TYPE CIRCUIT SPEAKER.
3. PROVIDES AND MILLAURERGE EQUIPMENT GROUND FAILT PROTECTOR TYPE CIRCUIT BREAKER.
4. PROVIDES SHUNT TIBP CIRCUIT BREAKER WITH 120 V COIL.
5. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
6. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDES WITCHING HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
7. PROVIDES WITCHING HOLDING CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.L.C. RATING AS EXISTING.
9. EXISTING LOAD.

State of Utah

Department of Administrative Services

Division of Facilities Construction & Management 437 South 2700 West, FL3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



DESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



ISSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

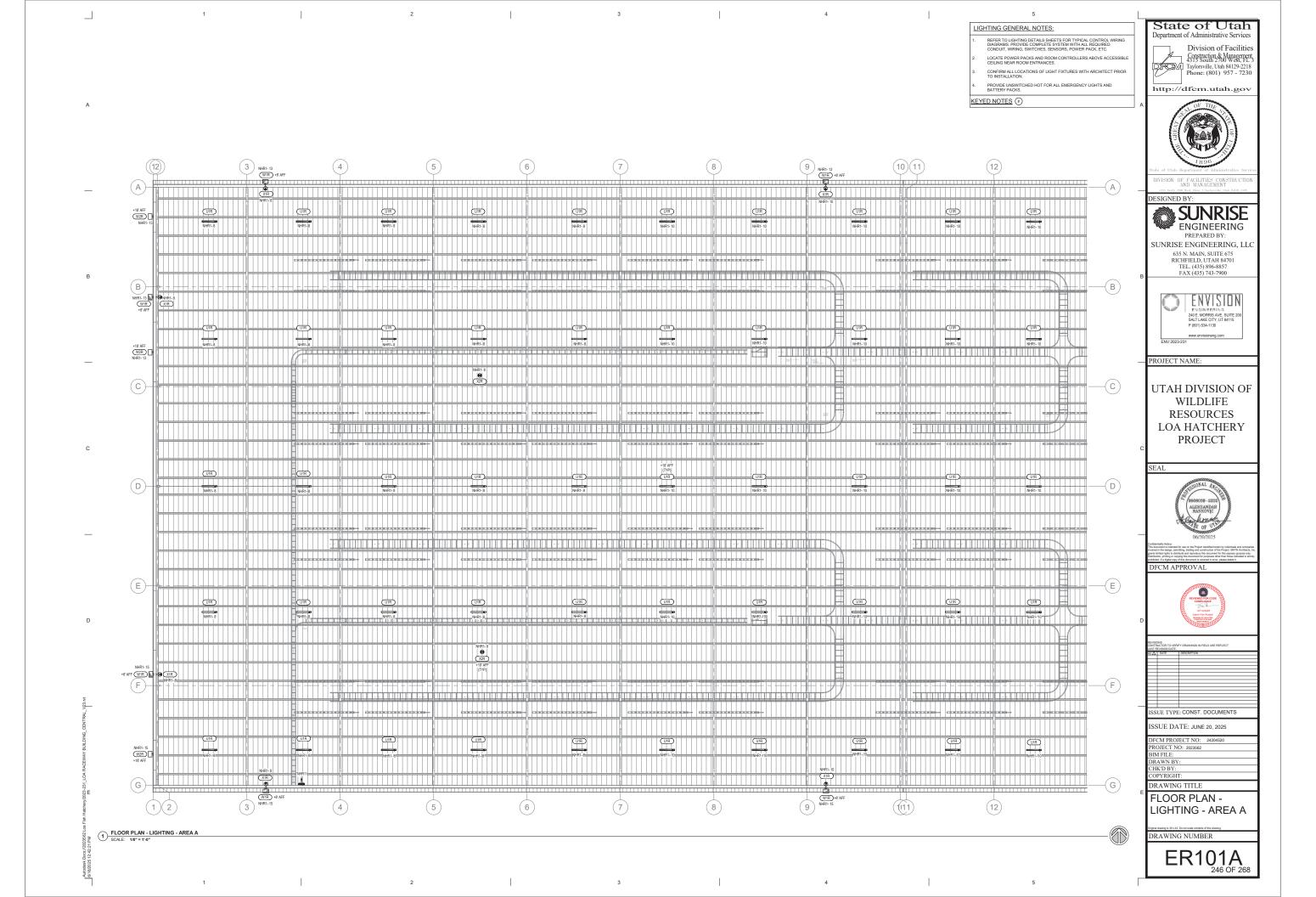
DFCM PROJECT NO: 24204520 PROJECT NO: 2023562 BIM FILE: DRAWN BY: CHK'D BY: COPYRIGHT:

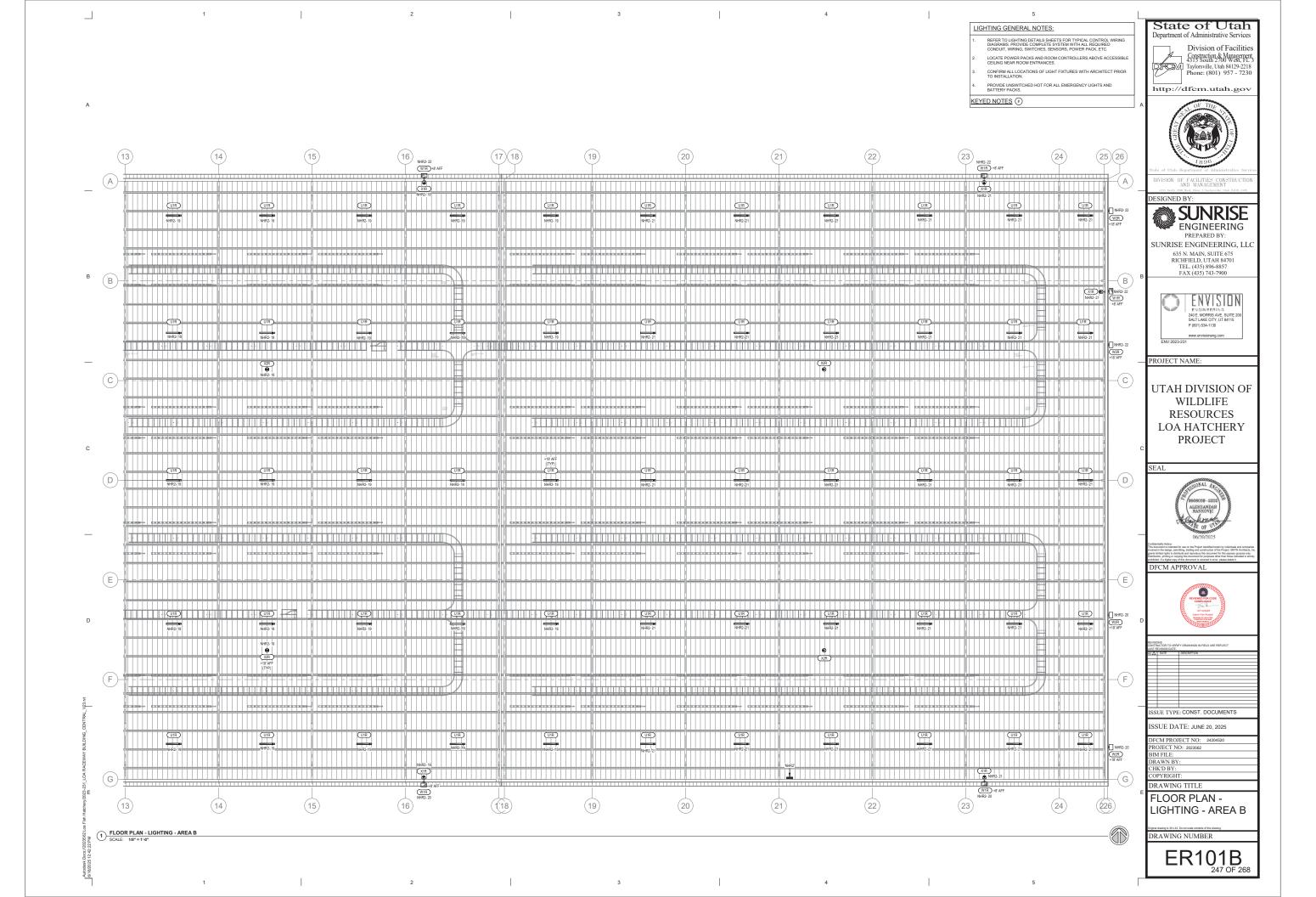
DRAWING TITLE

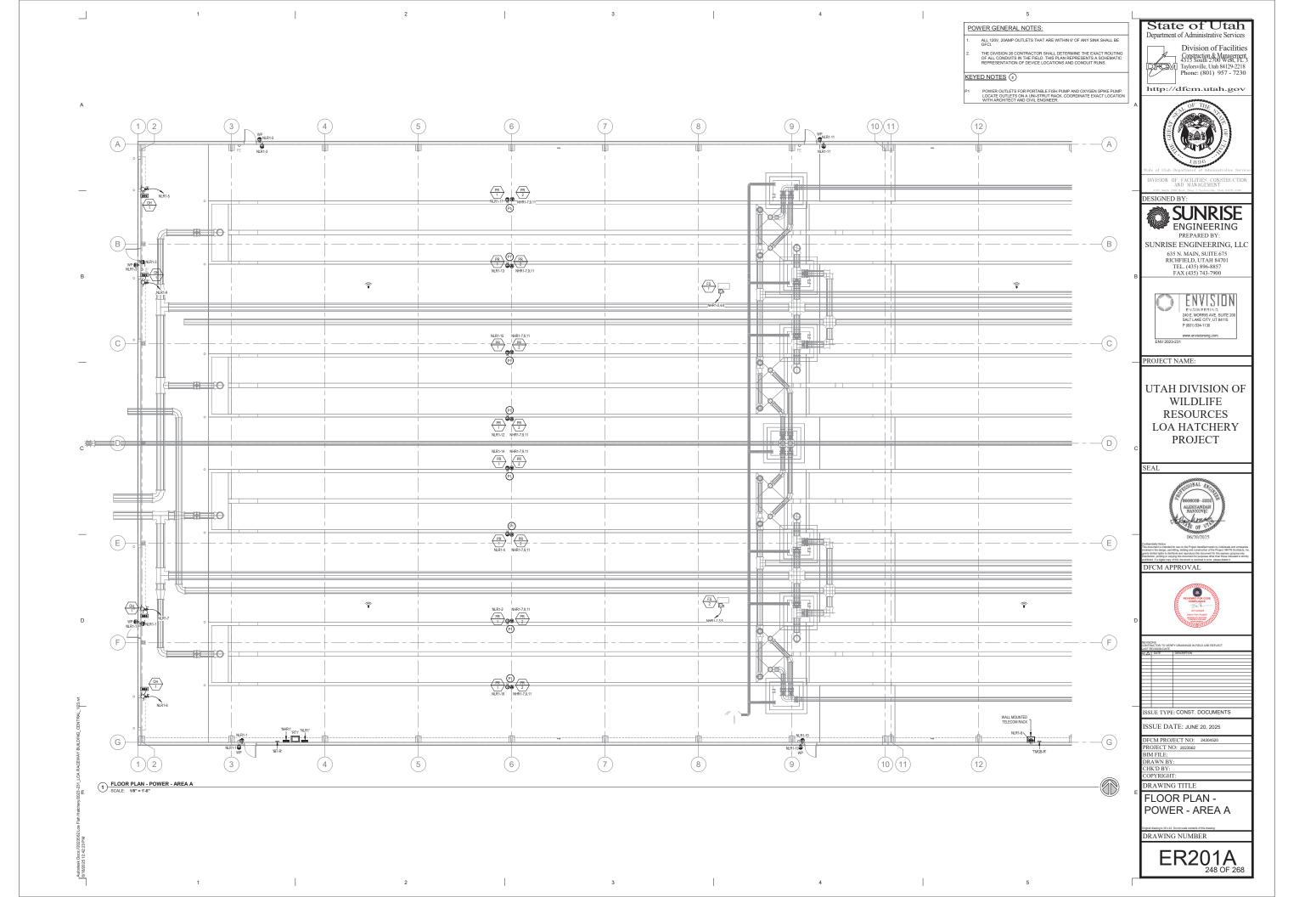
ELECTRICAL SCHEDULES

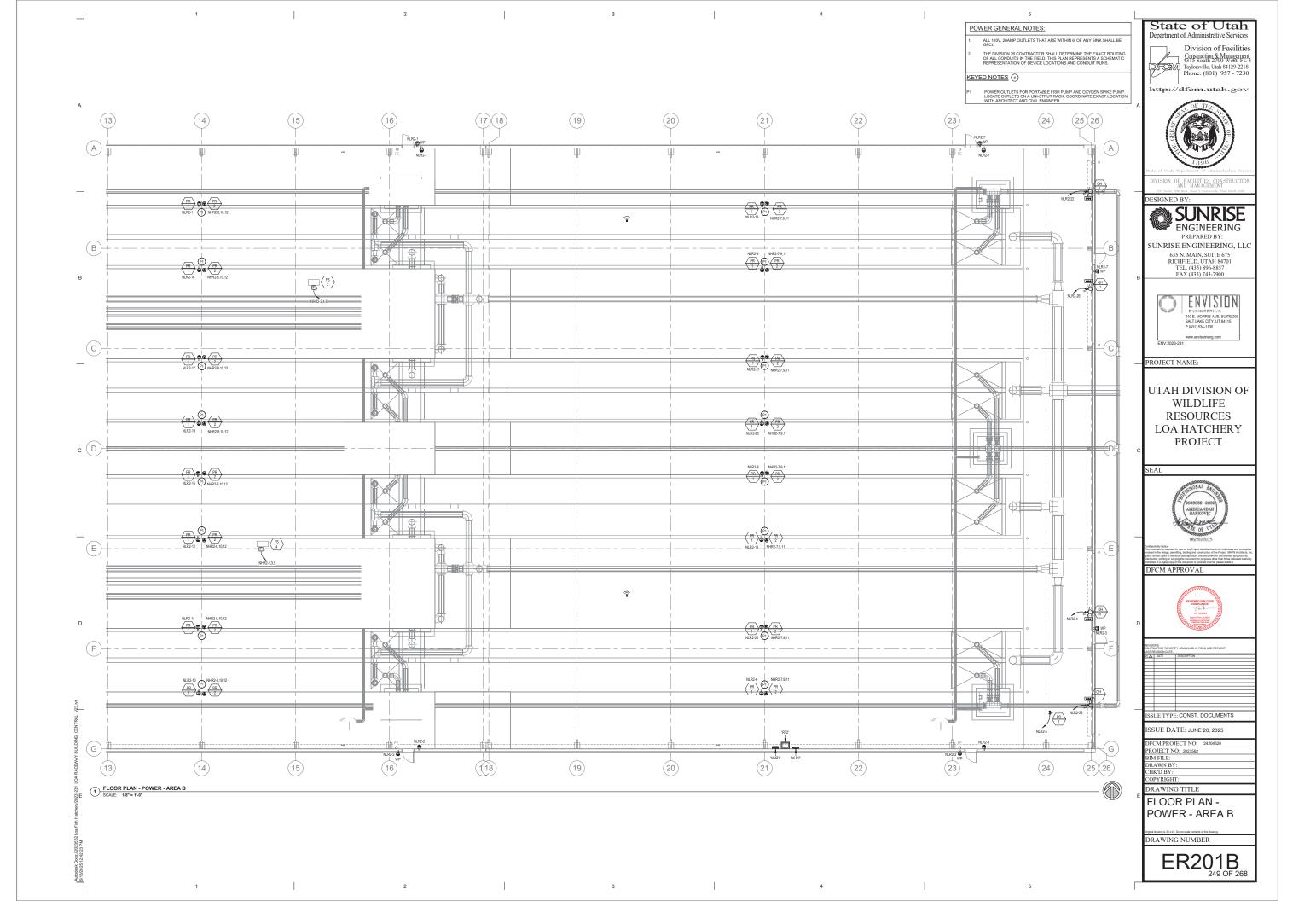
DRAWING NUMBER

E0601









	RA	CEWA	Y BUI	LDING	LIGHT FIX	TURE SCHEDULE	
			ELEC.	TRICAL	APPROVED	CATALOG INFORMATION	
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES
U1R	4' LINEAR LED STRIP LIGHT WITH ROUND LENS AND INTEGRAL OCCUPANCY SENSOR AND INTEGRAL EMERGENCY BATTERY PACK (WHERE SHOWN ON DRAWINGS)	LED 3500 LUMENS 4000K	277 V	7	COOPER(OR APPROVED EQUAL)	49NLED-LDS-33SL-LW-UNV-("EL14W)-HB-ERMS380-L840-CD1-U	* - PROVIDE WITH INTEGRAL BATTERY PACK WHERE SHOWN ON DRAWINGS
W1R	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHTIOCCUPANCY SENSOR	LED 1800 LUMENS 4000K	277 V	14	COOPER(OR APPROVED EQUAL)	AXCS1A*WPS2XX CBP	*- ARCHITECT TO SELECT STANDARD COLOR FINISH
W2R	LED EXTERIOR WALLPACK WITH INTEGRAL DAYLIGHT/OCCUPANCY SENSOR	LED 3500 LUMENS 4000K	277 V	27	COOPER(OR APPROVED EQUAL)	AXCS3A*WPS2XX	*- ARCHITECT TO SELECT STANDARD COLOR FINISH
X1R	LED WALL MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	277 V	2	COOPER(OR APPROVED EQUAL)	PNL G U	
X2R	LED CEILING MOUNTED EXIT SIGN WITH INTEGRAL BATTERY PACK AND GREEN LETTERS	LED	277 V	2	COOPER(OR APPROVED EQUAL)	PNL G U	
LICUTE	IVILIDE CENEDAL NOTES			•			

LIGHT FIXTURE GENERAL NOTES

- 1. REFER TO THE ARCHITECTURAL REFLECTED CELLING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND JOR ARCHITECT.
 2. CONFIRM MOUNTING ENGENTS OF THE ACTION OF THE ARCHITECT PRIOR TO SHOP DOWNINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEAS.
 4. CONFIRM MALTINES ARE TO BE 300K FOR INTERIOR APPLICATIONS AND 400K FOR EXTERIOR APPLICATIONS, UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 4. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 5. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 6. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 7. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 8. ALL LIGHT FIXTURES ARE TO BE A MINIMUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 9. ALL LIGHT FIXTURES ARE TO HAVE AN EFFICACY OF 80 LUMENS PER WATT MINIMUM.

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED, AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.
 3. WHEN ONLY ONE PRODUCT IS A PPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.
 4. WHEN A CONTRACTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVAL SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 3. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUMES). VERBAL APPROVAD WILL NOT A VERY NOT ANY ITEM.
 3. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUMENT OF THE ELECTRICAL ENGINEER FRIOR TO SUBMACE OF THE ADDENDUMENT OF THE ELECTRICAL ENGINEER FRIOR TO SUBMACE OF THE ADDENDUMENT OF THE ELECTRICAL ENGINEER FRIOR TO SUBMACE OF THE ADDENDUMENT OF THE ELECTRICAL ENGINEER PRIOR TO SUBMACE OF THE ADDENDUMENT OF TH
- ADDITIONAL SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.

 IN SHIP OF A PROVIDED OF THE SHEET OF THE WILL SHEET OF THE WILL SHEET OF THE SHEET

				F	RAC	EV	/AY	Bl	JILD	ING	EQl	JIPM	EN1	r SC	HED	ULE				
UNIT N	AME		E	LECTRIC	CAL INP	UT				FEEDE	R			STARTI	ER/DISCONI	NECT/CON	NECTION T	O UNIT		
		DESCRIPTION					AMPS		CONDUIT		WIRE		NOTE	STARTER	00	P	DISCO	NNECT	ENCLOSURE	REMARKS
TYPE	No.	DESCRIPTION	LOAD	TYPE	VOLTS	PHASE	Amrs	QTY	SIZE	QTY	SIZE	EQPT GND	NOIL	SIZE	SIZE	POLE	SIZE	POLE	LNOLOGOKE	REMARKS
FS	1	FEED SYSTEM MOTOR	1.1	FLA	480 V	3	1.1 A	1	3/4"	3	12	12	10A	-	20	3	30	3	NEMA 1	
FS	2	FEED SYSTEM MOTOR	1.1	FLA	480 V	3	1.1 A	- 1	3/4"	3	12	12	10A	-	20	3	30	3	NEMA 1	
FS	3	FEED SYSTEM MOTOR	1.1	FLA	480 V	3	1.1 A	- 1	3/4"	3	12	12	10A	-	20	3	30	3	NEMA 1	
FS	4	FEED SYSTEM MOTOR	1.1	FLA	480 V	3	1.1 A	- 1	3/4"	3	12	12	10A	-	20	3	30	3	NEMA 1	
ОН	1	OVERHEAD DOOR	0.75	HP	120 V	1	13.8 A		-	2	-	-	1A	1HP	-	-	1HP	1	NEMA 1	REFER TO OVERHEAD DO VOLTAGE DROP SCHEDU FOR CONDUIT AND CONDUCTOR SIZES
PD	- 1	DRAIN PUMP	1	HP	120 V	1	16 A	1	3/4"	2	10	10	1A	-	-		1HP	1	NEMA 1	
PR	1	OXYGEN SPIKE PUMP	7.2	FLA	120 V	1	7.2 A	1	3/4"	2	12	12	13A	-	-		-	-	-	
PR	2	FISH PUMP	25	FLA	480 V	3	25 A	1	3/4"	3	8	10	14A		-			-		NEMA L12-30
CTAE	TEE	/DICCONNICCT/CONNICC	TION /	TILLE	IT NO	TEC.														

STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:

- MANUAL STARTER WITH THERMAL OVERLOAD
 MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY/CONTACTOR
 FOR ATC CONTROL.

PANELBOARD SCHEDULE

- 2. MORRATO ANTENDED IN THEMMAL OVERLOAD PROTECTIONS LOW VOLTAGE RELAY / 3. COMBRANTON MAGNETIC STATER / FUSED DISCONNECT 4. COMBRATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP) 5. COMBRATION MAGNETIC STARTER / MON-USED DISCONNECT 5. COMBRATION VARIBALE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP) 6. COMBRATION VARIBALE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP) 6. CAMBRATION VARIBALE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP) 8. REDUCED VOLTAGE STARTER 9. NON-FUSED DISCONNECT SWITCH 1. FUSED DISCONNECT SWITCH 1. FUSED DISCONNECT SWITCH 1. FUSED DISCONNECT SWITCH 1. FUSED DISCONNECT SWITCH 1.

GENERAL NOTES:

PANEL NAME: NHR2

- SEMENTAL INVIES.

 CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT SUPPLIED.

 SUPPLIE

CIRCUIT DESCRIPTION KEYED NOTE

					PΑ	NE	LBC)AR	D S	CHE	EDU	LE								
	PANEL	NA	ME	: NH	IR1					LOCAT	ION:					FEED FROM:				
	MOUNTING: SURFACE	E			VO	LTAGE: 4	80/277 W	ye		MAIN TY	PE: MCB	FEED	THRU			SPD: CAT A				
	ENCLOSURE: NEMA 1					PHASE: 3				BUS RATI	ING: 400	Ą			NE	UTRAL RATING: 100%				EI
	DOOR TYPE: DOOR-IN-DOOR WIRES: 4 MGB RATING: 400 A ISOLATED GROUND: NO																			
	Min. A.I.C. RATING: 35,000A BUS MATERIAL: COPPER																			
							Е	RANCH	BREA	KERS										
ED TE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	,	Α.		3		С	CKT #	LOAD TYPE	POLE	AMP	CIRCUIT DESCRIPTION	KEYED NOTE		KEYED NOTE	CIRCI
	FEED SYSTEM MOTOR	20 A	3	M	1	305 VA	305 VA					2	M	3	20 A	FEED SYSTEM MOTOR				FEED SYS
		-		-	3			305 VA	305 VA			4				-	-		-	-
_	-	-		-	5					305 VA	305 VA	6		-		-	-		-	-
	FISH PUMP OUTLETS	30 A	3	M	7	6928 VA	712 VA					8	L	1		LTG:HATCHERY				FISH PUM
	-	-			9			6928 VA	704 VA			10	L	1	20 A	LTG:HATCHERY				-
					11					6928 VA	0 VA	12		3	20 A	-SPARE-				-
																				DDI 4

NOIE				TIPE	#		A.		5		i	#	ITPE				NOTE
	FEED SYSTEM MOTOR	20 A	3	M	-1	305 VA	305 VA					2	M	3	20 A	FEED SYSTEM MOTOR	
	-	-			3			305 VA	305 VA			4		-		-	-
		-		-	5					305 VA	305 VA	6		-		-	-
	FISH PUMP OUTLETS	30 A	3	M	7	6928 VA	712 VA					8	L	1	20 A	LTG:HATCHERY	
		-		-	9			6928 VA	704 VA			10	L	1	20 A	LTG:HATCHERY	
		-			11					6928 VA	0 VA	12		3	20 A	-SPARE-	
	LTG:EXT WALLPACKS	20 A	1	L	13	96 VA	0 VA					14		-		-	-
	LTG:EXT WALLPACKS	20 A	1	L	15			69 VA	0 VA			16		-		-	-
	-SPARE-	20 A	3	-	17					0 VA	0 VA	18		1	20 A	-SPARE-	
	-	-			19	0 VA	0 VA					20		1	20 A	-SPARE-	
	-	-			21			0 VA	0 VA			22		1	20 A	-SPARE-	
	-SPARE-	20 A	1	-	23					0 VA	0 VA	24		1	20 A	-SPARE-	
	-SPARE-	20 A	1	-	25	0 VA	0 VA					26		1	20 A	-SPARE-	
	-SPARE-	20 A	1	-	27			0 VA	0 VA			28		1	20 A	-SPARE-	
	-SPARE-	20 A	1	-	29					0 VA	0 VA	30		1	20 A	-SPARE-	
	-SPARE-	20 A	1		31	0 VA						32		1		-SPACE ONLY-	
	-SPARE-	20 A	1	-	33			0 VA				34		1		-SPACE ONLY-	
	-SPARE-	20 A	1	-	35					0 VA		36		1		-SPACE ONLY-	
	SPD	40 A	3	-	37	0 VA	5661 VA					38	M;	3	70 A	RT1	
	-	-			39			0 VA	5661 VA			40		-		-	-
		-			41					0 VA	5733 VA	42		-		-	-
	TOTAL CONNECT	ED LOA	D PER	PHAS	E (VA)	5620	18 VA	5832	1 VA	5447	'8 VA						
	TOTAL CONNECTED CUR	HASE (A	AMPS)	20	4 A	21.	2 A	19	7 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
EQUIPMENT	1000 VA	100.00%	1000 VA		
LIGHTING	3317 VA	125.00%	4146 VA	Total Conn. Load:	169007 VA
Motor	160370 VA	104.41%	167437 VA	25% OF LARGEST MOTOR:	
RECEPTACLE	4320 VA	100.00%	4320 VA	Total Est. Demand:	176903 VA
				Total Conn. Current:	203 A
				Total Est. Demand Current:	213 A

	DOOR TYPE: DOOR-	WIRES: 4 Min. A.I.C. RATING: 35,000A					MCB RATING: NONE							ISOLATED GROUND: NO				
	DOOR TYPE: DOOR-						_											
				Min.	A.I.C. F	RATING: 3					IAL: COPF	'ER						
								RANCH	BREA	KERS								
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #		Α.		3			CKT #	LOAD TYPE	POLE	AMP	CIRC	CUIT DESCR	
	FEED SYSTEM MOTOR	20 A	3	M	1	305 VA	305 VA					2	M	3	20 A	FEED SY	STEM MOT	
	-		-		3			305 VA	305 VA			4	-					
-	-	-	-		5					305 VA	305 VA	6	-		-			
	FISH PUMP OUTLETS	20 A	3	M	7	6928 VA	6928 VA					8	M	3	30 A	FISH PU	MP OUTLET	
	-				9			6928 VA	6928 VA			10						
	-				11					6928 VA	6928 VA	12						
	PDL-1	70 A	3	M	13	9422 VA	9422 VA					14	M	3	70 A	PDL-1		
-	-		-	-	15			9422 VA	9422 VA			16	-					
	-				17					9422 VA	9422 VA	18						
	LTG:HATCHERY	20 A	1	L	19	708 VA	82 VA					20	L	1			WALLPACE	
	LTG:HATCHERY	20 A	1	L	21			850 VA	96 VA			22	L	1			WALLPAC	
	-SPARE-	30 A	3		23					0 VA	0 VA	24	-	3	20 A	-SPARE-		
-	-	-	-		25	0 VA	0 VA					26	-		-			
-	-		-		27			0 VA	0 VA			28	-		-			
	-SPARE-	20 A	1		29					0 VA	0 VA	30	-	1	20 A	-SPARE-		
	-SPARE-	20 A	1		31	0 VA	0 VA					32	-	1	20 A	-SPARE-		
	-SPARE-	20 A	1		33			0 VA	0 VA			34	-	1	20 A	-SPARE-		
	-SPARE-	20 A	1		35					0 VA	0 VA	36	-	1	20 A	-SPARE-		
	-SPACE ONLY-		1		37	-	8100 VA					38	M;	3	70 A	RT2		
	-SPACE ONLY-		1		39				10092			40	-					
	-SPACE ONLY-		1		41						7896 VA	42	-					
	TOTAL CONNEC					4220	11 VA	4434	9 VA	4120	7 VA							
	TOTAL CONNECTED CU	RRENT	PER PH	ASE (AMPS)	15	3 A	16	1 A	14	9 A							
	CLASSIFICATION			CC	NNEC	TED LOA	D DE	MAND FA	CTOR	ESTIMATI	D DEMAN	D				PANEL 1	OTALS	
	IGHTING					86 VA		125.00%			70 VA							
Motor					20 VA		105.69%			287 VA						127756 VA		
RECEP	TACLE				180	00 VA		100.00%		18	00 VA		25% (MOTOR:		
												\perp					135257 VA	
																Current:		
													Total	Fet De	mand (Current:	163 A	

					<u>P</u> A	MF	<u> </u>	<u> AR</u>	<u> </u>	<u>CHE</u>	<u>:บบ</u>	LE								
	PANEL	NA	ME	: NL	.R1					LOCAT	ION:					FEED FROM: RT1				
	MOUNTING: SURFA	CE			VΩ	LTAGE: 1	20/208 W	ve			PF: MCB		SPD: CAT A							
	ENCLOSURE: NEMA 1					PHASE: 3				BUS RAT	ING: 225	A.	NEUTRAL RATING: 100%							
	DOOR TYPE: DOOR-I		3			WIRES: 4				MCB RAT						ATED GROUND: NO				
				Min. A	A.I.C. F	ATING: 1	0.000A			JS MATER										
	-						.,	RANCH												
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #	,	٠		3 3	T	c	CKT #	LOAD	POLE	AMP	CIRCUIT DESCRIPTION	KEY			
	R:CONV RECP	20 A	1	CO	1	720 VA	864 VA					2	M	1	20 A	OXY SPIKE PUMP				
	R:CONV RECP	20 A	1	CO	3			720 VA	864 VA			4	M	1	20 A	OXY SPIKE PUMP				
	OH DOOR	30 A	1	М	5					1656 VA	1656 VA	6	M	1	30 A	OH DOOR				
	OH DOOR	30 A	1	M	7	1656 VA	360 VA					8	co	1	20 A	E:DATA RACK				
	OH DOOR	30 A	1	М	9			1656 VA	360 VA			10	CO	1	20 A	R:CONV RECP				
	R:CONV RECP	20 A	1	CO	11					360 VA	864 VA	12	М	1	20 A	OXY SPIKE PUMP				
	OXY SPIKE PUMP	20 A	1	M	13	864 VA	864 VA					14	M	1	20 A	OXY SPIKE PUMP				
	OXY SPIKE PUMP	20 A	1	M	15			864 VA	864 VA			16	M	1	20 A	OXY SPIKE PUMP				
	OXY SPIKE PUMP	20 A	1	M	17					864 VA	0 VA	18		1	20 A	-SPARE-				
	-SPARE-	20 A	1	-	19	0 VA	0 VA					20		1	20 A	-SPARE-				
	-SPARE-	20 A	1	-	21			0 VA	0 VA			22	-	1	20 A	-SPARE-				
	-SPARE-	20 A	1	-	23					0 VA	0 VA	24		1	20 A	-SPARE-				
	-SPARE-	20 A	1		25	0 VA	0 VA					26		1	20 A	-SPARE-				
	-SPARE-	20 A	1		27			0 VA	0 VA			28		1	20 A	-SPARE-				
	-SPARE-	20 A	1	-	29					0 VA	0 VA	30		1	20 A	-SPARE-	\top			
	-SPARE-	20 A	1	-	31	0 VA	0 VA					32	-	1	20 A	-SPARE-				
	-SPARE-	20 A	1		33			0 VA	0 VA			34		1	20 A	-SPARE-				
	-SPARE-	20 A	1		35					0 VA	0 VA	36		1	20 A	-SPARE-				
	PANEL NLS1	50 A	3	Е	37	333 VA	0 VA					38		3	40 A	SPD	\top			
		-		-	39			333 VA	0 VA			40		-		-	_			
		-		-	41					333 VA	0 VA	42		-		-	_			
	TOTAL CONNEC	TED LO	AD PER	PHASE	E (VA)	566	1 VA	566	1 VA	573	3 VA		-	_						
	TOTAL CONNECTED CU	RRENT	PER PI	HASE (A	MPS)	47	'A	47	' A	48	3 A									
				0	-,					-		,								
LOAD C	CLASSIFICATION			CO	NNEC	TED LOA	D DE	MAND FA	CTOR	ESTIMATE	D DEMAN	ND				PANEL TOTALS				
EQUIPN	MENT				100	10 VA		100.00%	,	100	00 VA									
Motor					135	36 VA		103.06%	,	139	50 VA	\top		To	al Con	n. Load: 17056 VA				
RECEP'	TACLE				252	0 VA		100.00%	,	252	20 VA		25% (OF LAR	GEST	MOTOR:				
														Tota	I Est. I	Demand: 17470 VA				
														Total	Conn.	Current: 47 A				
				-			$\overline{}$					-	W-1-1	E D		Current: 48 A				

	PANEI MOUNTING: SURFA ENCLOSURE: NEMA 1 DOOR TYPE: STAND.	120/208 W: 3 1 10.000A	ye		LOCATI MAIN TO BUS RATI MCB RATI JS MATER	PE: MCB ING: 225	A A				UTRAL F	PROM: RT2 SPD: CAT A RATING: 100% ROUND: NO						
				WIIII. A	LI.C. P	CATING:		RANCE			IAL: COP	PER					-	
(EYED	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #				В		c	CKT #	LOAD	POLE	AMP	CIR	CUIT DESCRIPTION	KEYED
	R:CONV RECP	20 A	1	CO	1	360 VA	360 VA					2	CO	1	20 A	R:CONV	RECP	
	R:CONV RECP	20 A	1	CO	3			540 VA	1656 VA			4	M	1	30 A	OH DOO)R	
	PD-1	30 A	1	M	5					1920 VA	864 VA	6	M	1	20 A	OXY SP	IKE PUMP	
	R:CONV RECP	20 A	1	co	7	540 VA	864 VA					8	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	9			864 VA	864 VA			10	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	11					864 VA	864 VA	12	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	13	864 VA	864 VA					14	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	15			864 VA	864 VA			16	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	17					864 VA	864 VA	18	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	19	864 VA	864 VA					20	M	1	20 A	OXY SP	IKE PUMP	
	OXY SPIKE PUMP	20 A	1	M	21			864 VA	1656 VA			22	M	1	30 A	OH DOO)R	
	OH DOOR	30 A	1	M	23					1656 VA	0 VA	24		1	20 A	SCADA	RTU PANEL	
	OXY SPIKE PUMP	20 A	1	M	25	864 VA	1656 VA					26	M	1	30 A	OH DOO	R	
	PS-1	30 A	1	M	27			1920 VA	0 VA			28		1	20 A	PE-2		
	PE-2 CTRL PANEL	20 A	1		29					0 VA	0 VA	30		1	20 A	-SPARE		
	-SPARE-	20 A	1		31	0 VA	0 VA					32		1	20 A	-SPARE	-	
	-SPARE-	20 A	1		33			0 VA	0 VA			34	-	1	20 A	-SPARE	-	
	-SPARE-	20 A	1		35					0 VA	0 VA	36	-	1	20 A	-SPARE	-	
	-SPACE ONLY-		1		37	-	0 VA					38		3	40 A	SPD		
	-SPACE ONLY-		1		39				0 VA			40			-			
	-SPACE ONLY-		1		41						0 VA	42			-			
	TOTAL CONNEC	TED LO	AD PER	PHAS	E (VA)	810	0 VA	1009	92 VA	789	6 VA					•		
	TOTAL CONNECTED CU	RRENT	PER PI	HASE (A	MPS)	68	3 A	84	I A	66	A]						
OAD	CLASSIFICATION			CC	NNEC	TED LOA	D DEI	MAND FA	CTOR	ESTIMATE	D DEMAN	ND				PANEL	TOTALS	
Motor						88 VA		101.98%			68 VA							
RECEP	TACLE				180	00 VA		100.00%		180	00 VA						26088 VA	
													25% C			MOTOR:		
												\perp					26568 VA	
																Current:		
													Total	Est. De	mand	Current:	74 A	

- 1. PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
 2. PROVIDE ARG PAULT CIRCUIT INTERRUPTER TYPE (GROUT) BREAKER.
 3. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
 4. PROVIDE SHANT TRIP CIRCUIT BREAKER WITH 120 Y COIL.
 5. PROVIDE HACR RATED GROUT BREAKER.
 6. PROVIDE HACR FAITED GROUT BREAKER.
 6. PROVIDE HACR CATED CONDITIONS CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.

- TO PROVIDE SHIPMEND FOUR TOUR TOURING URKLUIT SHEAREN IN THE "UN" OR "OFF" POSITION.

 PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.L.C. RATING AS EXISTING. 2. EXISTING LOAD.

State of Utah



A. FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 26.
B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS UNDER DIVISION 36.
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION BUT INSTALLED AND CONNECTED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER ANOTHER DIVISION E. FURNISHED, INSTALLED & CONNECTED BY DIVISION 26.

Division of Facilities Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701

TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT

SEAL



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

DECM PROJECT NO: 24204520 DJECT NO: 2023562 IM FILE: OPYRIGHT

DRAWING TITLE

ELECTRICAL SCHEDULES

DRAWING NUMBER

ER600 250 OF 268

	DISINFECTION SHED LIGHT FIXTURE SCHEDULE														
			ELEC.	TRICAL	APPROVED	CATALOG INFORMATION									
TYPE	DESCRIPTION	SOURCE	VOLTAGE	LOAD	MANUFACTURERS	CATALOG NUMBER / SERIES	COMMENTS / NOTES								
VTS	4FT LINEAR LED VAPORT TIGHT FIXTURE	LED 4107 LUMENS 4000K	120 V	7	COOPER(OR APPROVED EQUAL)	4VT3-SL3C3-W-UNV									
	LED EXTERIOR WALLPACK WITH INTEGRAL BATTERY PACK AND DAYLIGHT/OCCUPANCY SENSOR	LED 1800 LUMENS 4000K	120 V	14	COOPER(OR APPROVED EQUAL)	AXCS1A*WPS2XX CBP	*- ARCHITECT TO SELECT STANDARD COLOR FINISH								

2

LIGHT FIXTURE GENERAL NOTES

- I. REFER TO THE ARCHITECTURAL REFLECTED CELINO PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
 2. CONFIRM MOUNTING HEIGHTS AND LOCATIONS OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS AND JOR ARCHITECT.
 3. REFER TO THE SEPECIFICATIONS OF OR OTHER LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND
 ELECTRICAL ENGINEER PRIOR TO DELEASE.
 4. ALL LIGHT FIXTURES ARE TO BE A NUMBRUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 4. ALL LIGHT FIXTURES AND TO BE A NUMBRUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 5. ALL LIGHT FIXTURES ARE TO BE A NUMBRUM OF 80 CRI UNLESS OTHERWISE NOTED IN THE FIXTURE DESCRIPTION.
 6. ALL LIGHT FIXTURES AND TO BE AND AND ASSOCIATED ON THE PRIVATE DESCRIPTION.
 7. ALL LED SOURCES MUST THESE TIDE AND ASSOCIATED ON THE PRIVATE DESCRIPTION.
 8. COLORISM ALL BOOKING REQUIREMENTS WITH ARCHITECT PRIOR TO RELEASE.
 9. ALL LIGHT FIXTURES ARE TO BE AND AT SOOD ON THE PRIVATE ON THE PRIVATE DESCRIPTION.
 9. ALL LIGHT FIXTURES AND TO BE AND AT SOOD ON THE PRIVATE ON THE PRIVATE DESCRIPTION.
 9. ALL LIGHT FIXTURES AND TO BE AND AT SOOD ON THE PRIVATE ON THE PRIVATE DESCRIPTION.
 9. ALL LIGHT FIXTURES AND TO BE AND ATTENDED ON THE PRIVATE ON THE PRIVATE OF THE PRIVATE ON THE P

1

BIDDING REQUIREMENTS

- 1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
 2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED AND MUST BE BID SEPARATELY. I.E. LIGHT FIXTURES, THEATRICAL LIGHTING, SPORTS LIGHTING AND ALL LIGHTING CONTROLS.
 3. WHEN ONLY ONE PRODUCT IS A PPROVED FOR BIDDING. THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND / OR CONTRACTOR.
 4. WHEN ALC CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

- 1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVALS REQUIRED BEFORE BIDDING THIS PROJECT.
 2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (B) WORKING DAYS BEFORE BID TIME. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
 3. FIRST THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUMIS). VERBAL APPROVALS WILL NOT BE GIVEN ON ANY ITEM.
 4. IT IS NOT THE RESPONSEBILITY OF THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE
 5. FIRDING APPROVALS SHALL CONSIST OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. AS ECUIVACIATION. SHECFICIATION INFORMATION SHALL BE CLEARLY MARKED. PRODUCTS WITHOUT PHOTOMETRIC
 DATA WILL NOT BE APPROVED.
 6. IGUITIND PACKAGES WILL BE REVIEWED FOR GENERAL PROJECT COMPLIANCE ONLY. AN IN-DEPTH REVIEW OF ANY ALTERNATE FIXTURES WILL BE DONE DURING THE SUBMITTAL REVIEW PROCESS. ANY FIXTURES THAT
 ARE NOT TRULY EQUIAL, AND OR DO NOT COMPLY WITH ALL OF THE REQUIREMENTS CONTAINED IN THE CONTRACT DOCUMENTS, WILL NOT BE APPROVED. IF EQUIMENT IS DISAPPROVED FOR BIDDING, CONTRACTOR SHALL
 SUPPLY SECRETOR EQUIPMENT AT MO EXTRA COST TO THE OWNER.

		PANELBOAR	D SCHEDULE	
	PANEL NAM	E: NLS1	DISINFECTION SHED LOCATION: S-01	FEED FROM: NLR1
В	MOUNTING: SURFACE	VOLTAGE: 120/208 Wye	MAIN TYPE: MCB	SPD: CAT A
_	ENCLOSURE: NEMA 1	PHASE: 3	BUS RATING: 100 A	NEUTRAL RATING: 100%
	DOOR TYPE: STANDARD	WIRES: 4	MCB RATING: 50 A	ISOLATED GROUND: NO
		Min. A.I.C. RATING: 10,000A	BUS MATERIAL: COPPER	
		BRANC	H BREAKERS	

							В	RANCH	BREA	KERS								
KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	LOAD TYPE	CKT #		Α.		В		С		LOAD TYPE	POLE	POLE	AMP	CIRCUIT DESCRIPTION	KEYEL
	LIGHTING	20 A	1	L	1	70 VA	180 VA					2	CO	1	20 A	E:PRESSURE WASHER		
	REC: DISINFECTION SHED S-01	20 A	1	CO	3			360 VA	0 VA			4	-	1	20 A	-SPARE-	T	
	REC: DISINFECTION SHED S-01	20 A	1	CO	5					360 VA	0 VA	6	-	1	20 A	-SPARE-	Т	
	-SPARE-	20 A	1		7	0 VA	0 VA					8	-	1	20 A	-SPARE-	\Box	
	-SPARE-	20 A	1		9			0 VA	0 VA			10		1	20 A	-SPARE-		
	-SPARE-	20 A	1		11					0 VA	0 VA	12		1	20 A	-SPARE-		
	-SPARE-	20 A	1		13	0 VA	0 VA					14	-	1	20 A	-SPARE-		
	-SPARE-	20 A	1		15			0 VA	0 VA			16	-	1	20 A	-SPARE-	T	
	-SPARE-	20 A	1		17					0 VA	0 VA	18	-	1	20 A	-SPARE-		
	-SPACE ONLY-		1		19	-	0 VA					20	-	3	40 A	SPD	\Box	
	-SPACE ONLY-		1		21				0 VA			22						
	-SPACE ONLY-		1		23					-	0 VA	24	-			-		
	TOTAL CONNECTED LOAD PER PHASE (VA						250 VA		360 VA		360 VA							
	TOTAL CONNECTED CURRENT PER PHASE (AMPS)						A	3 A		3 A								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL	TOTALS
LIGHTING	70 VA	125.00%	88 VA		
RECEPTACLE	900 VA	100.00%	900 VA	Total Conn. Load:	970 VA
				25% OF LARGEST MOTOR:	
				Total Est. Demand:	988 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

PANELBOARD SCHEDULE KEYED NOTE:

- I PROVIDE CLASS A GROUND FALLY THERRUPTER TYPE CIRCUIT BREAKER.

 2. PROVIDE ASS A GROUND FALLY THERRUPTER TYPE CIRCUIT BREAKER.

 2. PROVIDE AS OF ALLY CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER.

 3. PROVIDE SHUNT TRIP CRECUIT BREAKER WITH 120 Y COIL.

 5. PROVIDE SHUNT TRIP CRECUIT BREAKER WITH 120 Y COIL.

 5. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.

 7. PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.

 7. PROVIDE SHUNT CHIRCUIT BREAKER.

 7. PROVIDE SHUNT CHIRCUIT BREAKER.

 7. PROVIDE NOW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.L.C. RATING AS EXISTING.

LIGHTING GENERAL NOTES:

4

- REFER TO LIGHTING DETAILS SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
 - LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
- CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE UNSWITCHED HOT FOR ALL EMERGENCY LIGHTS AND BATTERY PACKS.

POWER GENERAL NOTES:

ALL 120V, 20AMP OUTLETS THAT ARE WITHIN 6' OF ANY SINK SHALL BE

5

KEYED NOTES (#)

State of Utah



Division of Facilities Construction & Management 4315 South 2700 West, FL 3 Taylorsville, Utah 84129-2218 Phone: (801) 957 - 7230

http://dfcm.utah.gov



ESIGNED BY:



SUNRISE ENGINEERING, LLC 635 N. MAIN, SUITE 675 RICHFIELD, UTAH 84701 TEL. (435) 896-8857 FAX (435) 743-7900



PROJECT NAME:

UTAH DIVISION OF WILDLIFE RESOURCES LOA HATCHERY PROJECT



DFCM APPROVAL



SSUE TYPE: CONST. DOCUMENTS

ISSUE DATE: JUNE 20, 2025

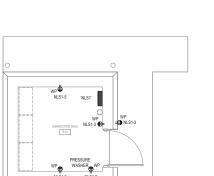
DECM PROJECT NO: 24204520 JECT NO: 2023562 OPYRIGHT

DRAWING TITLE

FIRST FLOOR -ELECTRICAL PLANS AND SCHEDULES

DRAWING NUMBER

ES201 258 OF 268



+10' AFF VTS NLS1- 1

2 FIRST FLOOR - LIGHTING
SCALE: 1/4" = 1'-0"

FIRST FLOOR - POWER

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

2 3