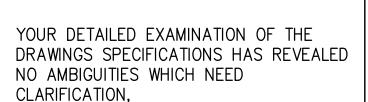


GENERAL NOTES

INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:



- ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE,
- THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF

KEYNOTES

4" C.O. WITH PULL STRING FROM EXISTING COMMUNICATIONS MANHOLE TO ROOM 026

TELEPHONE TERMINAL BACKBOARD 'TTB'.

ROOM 026 TTB TO WHITE HALL PLENUM

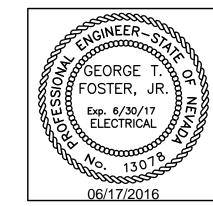
INSTALL FIBER IN 1-1/4" INNER DUCT MINIMUM.

VERIFY LOCATION.

SPACE.

PROJECT.

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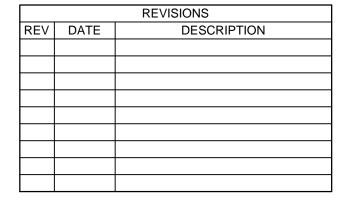
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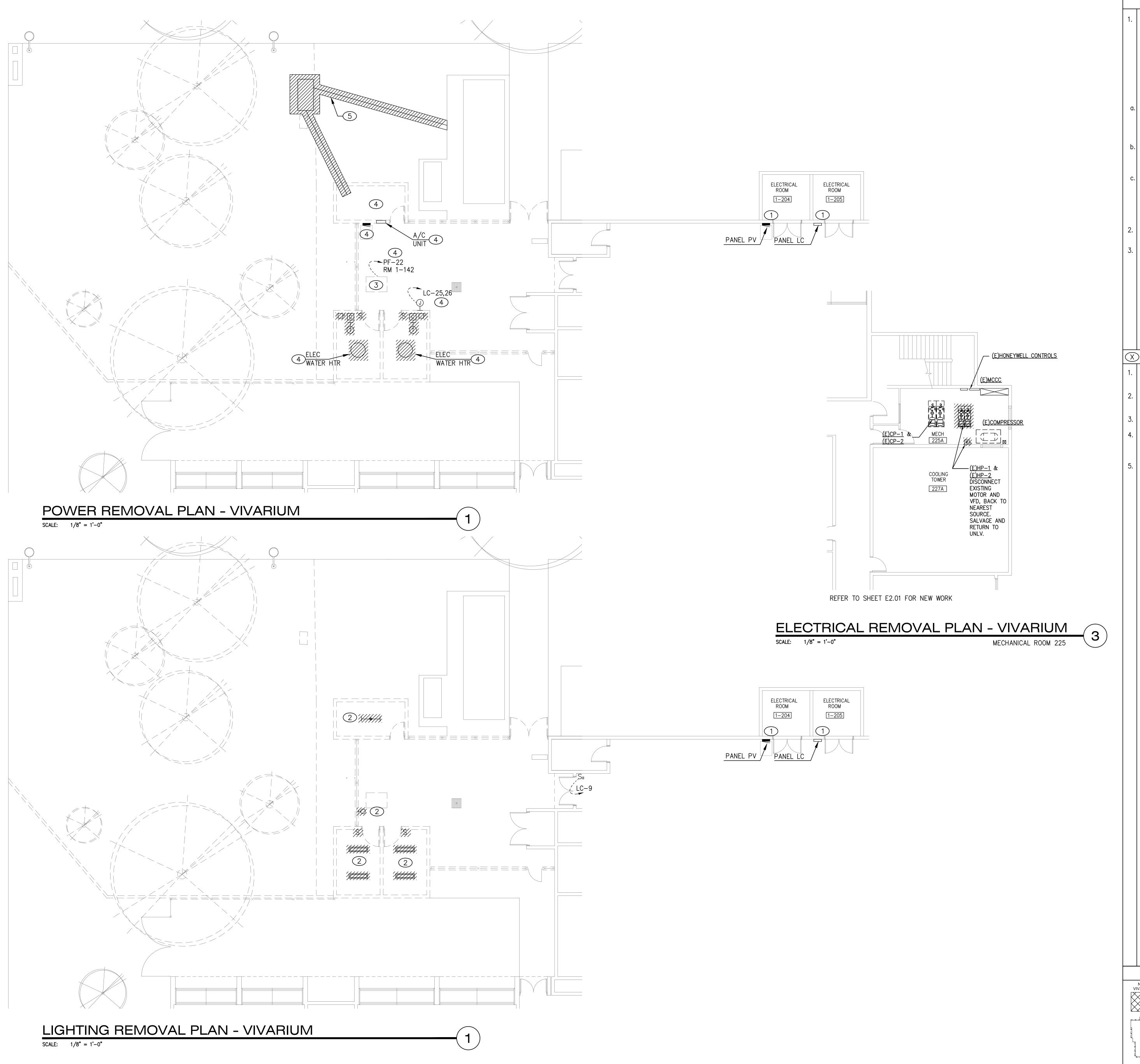
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SITE ELECTRICAL **PLAN- VIVARIUM**

Date: 06/17/2016 Sheet No:

ES1.01



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YOUR DETAILED EXAMINATION OF THE DRAWINGS SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,

ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND

THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.

. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF

3. EXISTING TO REMAIN U.N.O.

KEYNOTES

APPROXIMATE LOCATION OF ELECTRICAL PANELS. FIELD VERIFY EXACT LOCATION.
 REMOVE LIGHT FIXTURES AND ASSOCIATED

3. INCINERATOR.

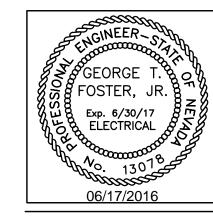
DISCONNECT EXISTING ELECTRICAL AND EQUIPMENT AND ASSOCIATED CIRCUITRY BACK TO NEAREST SOURCE.

CIRCUITRY BACK TO NEAREST SOURCE.

REFER TO ESO.01 FOR ADDITIONAL INFORMATION ON HATCHED AREA.

tsk

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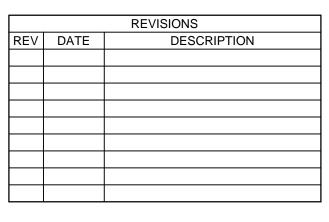
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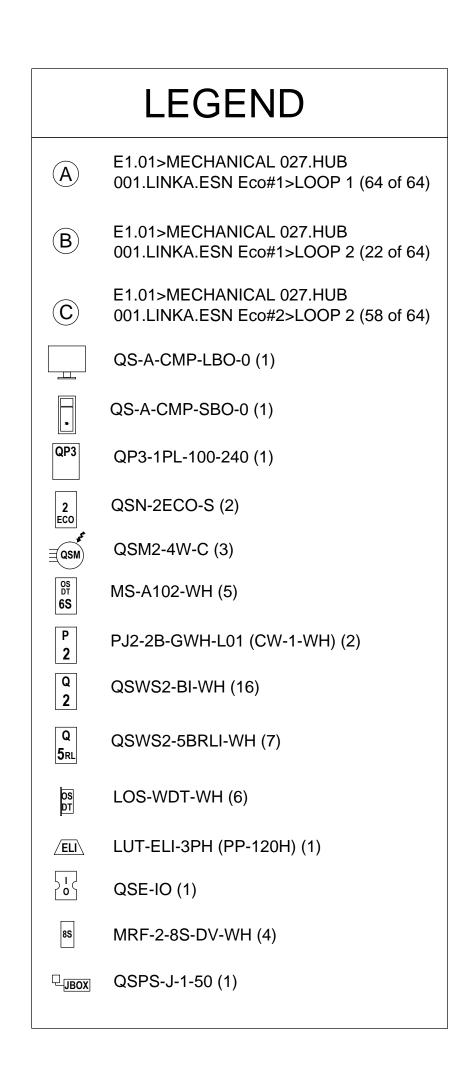


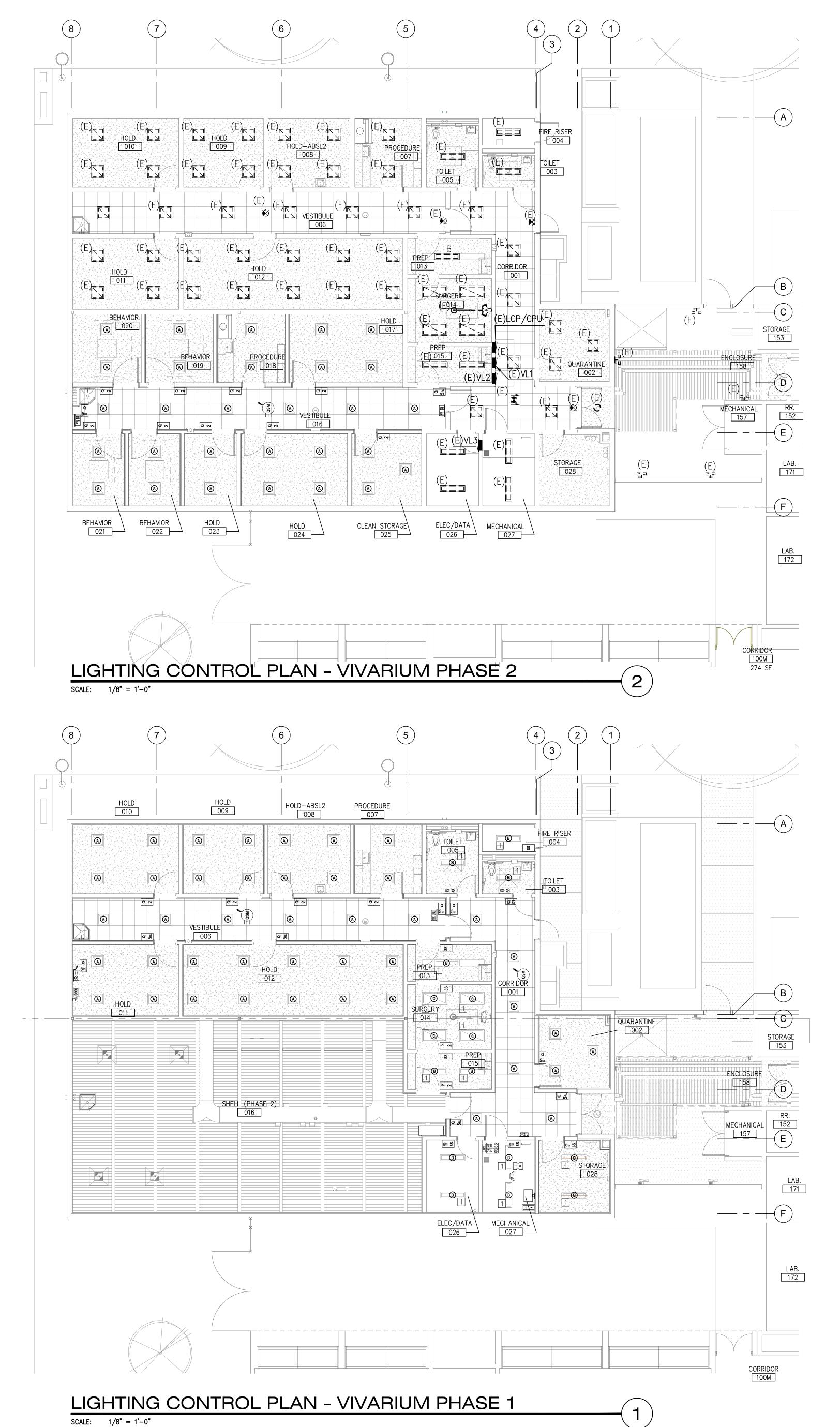
ELECTRICAL
REMOVAL
PLANS- VIVARIUM

Date: 06/17/2016 Sheet No:

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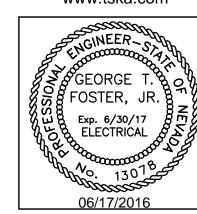








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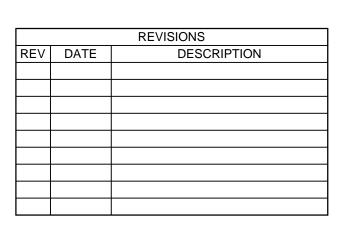
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PHASED LIGHTING
CONTROL PLANS VIVARIUM

Date: 06/17/2016
Sheet No:

NOTES ON WIRING

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DRAWING HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF FOR ANY REASON THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, PLEASE CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET (PLEASE REFER TO "QS LINK POWER REQUIREMENTS" FOR INDIVIDUAL DEVICE POWER REQUIREMENTS).

FOR QS CONTROL WIRE LENGTHS TOTALING LESS THAN 500FT (153M), USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 SQ MM) + 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED OR EQUIVALENT (BELDEN #9461). FOR QS CONTROL WIRE LENGTHS TOTALING UP TO 2,000FT, USE GRX-CBL-46L. TOTAL QS CONTROL WIRE LENGTH MUST NOT EXCEED 2,000FT (600M).

PANEL LINK RULES

PANELS ARE DAISY CHAINED ON ONE OF THE CONFIGURABLE LINKS PER LUTRON'S DRAWING, HOWEVER THEY DO NOT HAVE TO BE IN THE ORDER SHOWN. DO NOT HOME-RUN OR T-TAP THIS WIRING LINK. ALL CIRCUITS NEED TO BE LANDED IN THESE PANELS PER LUTRON'S PANEL SCHEDULES. THE MAXIMUM WIRE LENGTH OF A PANEL LINK IS 2,000FT (600M). AN MX-RPTR IS USED TO EXTEND THE LENGTH OF A LINK BY ANOTHER 2,000FT (600M). A MAXIMUM OF 3 MX-RPTRS MAY BE USED PER LINK FOR A MAXIMUM LENGTH OF 8,000FT (2,430 M) PER LINK. IF A PANEL IS MOVED TO ANOTHER LINK, OR THE LOADS ARE NOT WIRED AS SHOWN IN LUTRON'S PANEL SCHEDULES, LUTRON MUST BE NOTIFIED AS THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM. LT-1 LINK TERMINATORS ARE NEEDED ON EACH END OF THE LINK.

USE LUTRON CABLE GRX-CBL-46L (5 CONDUCTOR NON-PLENUM) OR GRX-PCBL-46L (5 CONDUCTOR PLENUM RATED). OTHERWISE, USE 2 #12 AWG (4 SQ MM)+ 2 #22 AWG (0.5 SQ MM) TWISTED AND SHIELDED AND BETWEEN THE PANELS ADD 1 #18 AWG (1.0 SQ MM) FOR EMERGENCY SENSING CABLE BY OTHERS.

DMX CABLE

DMX LINK WIRING REQUIRES ONE BELDON #9729 (NON-PLENUM) OR ONE BELDON #89729 (PLENUM) OR DURA FLEX 22/4 WA CABLE.

ECOSYSTEM BUS/LOOP*

THIS IS A TOPOLOGY-FREE AND POLARITY-FREE WIRING (DAISY-CHAIN, T-TAP, HOME-RUN ETC.). KEEP ALL THE BALLASTS/MODULES IN ONE ROOM ON THE SAME LOOP WHENEVER POSSIBLE. ECOSYSTEM LOOPS ARE SHOWN ON THE LIGHTING PLANS. IF THERE IS A DISCREPANCY, AND IF ROOMS ARE WIRED ON A DIFFERENT LOOP THAN THE ONE SHOWN, LUTRON NEEDS TO BE NOTIFIED AS THIS INFORMATION IS IMPORTANT FOR PROGRAMMING THE SYSTEM.

USE LUTRON CABLE C-CBL-216-GR1 (2 #16 CONDUCTOR NON-PLENUM) OR C-PCBL-216-CL-1 (2 #16 CONDUCTOR PLENUM RATED). OTHERWISE USE 2 #16 AWG (1.5 SQ MM) BY OTHERS. LOOP LENGTH IS LIMITED BY THE WIRE GAUGE USED FOR E1 AND E2 AS FOLLOWS:

WIRE GAUGE	MAX LOOP LENGTH	
#18 AWG (1.0 SQ MM)	550 FT (167M)	
#16 AWG (1.5 SQ MM)	900 FT (274M)	
#14 AWG (2.5 SQ MM)	1,400 FT (426 M)	
#12 AWG (4 SQ MM)	2,200 FT (670M)	

NOTES FOR LED **APPLICATIONS**

FOR ANY FORWARD/REVERSE PHASE, 3-WIRE, 0-10V AND SWITCHING LED DRIVERS, PLEASE VERIFY THE NUMBER OF DRIVERS SUPPORTED ON EACH DEVICE. FOR MORE INFORMATION, PLEASE VISIT LUTRON'S LED CENTER OF EXCELLENCE (WWW.LUTRON.COM/LEDS).

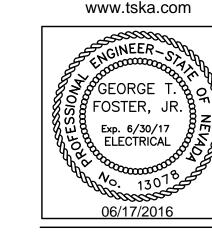
QS DEVICES THAT SUPPLY PDU DIN RAIL POWER SUPPLY QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY +8 ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI SOFTSWITCH, ENERGI SAVR NODE FOR 0-10V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0-10V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), 1A MYROOM DIN RAIL POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE SWAN NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE GS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX). QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINKS A,B: +33 EACH QS QS QUANTUM LIGHTING HUB LINKS A,B: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER ECOSYSTEM WALLSTATION -1	DEVICE	PDUS
QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI ENERGI SAVR NODE FOR 0–10V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0–10V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), 1A MYROOM DIN RAIL POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ENERGI SAVR NODE WITH DALI (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINK A : 0 LINK A : 0 LINK A : 0 LINK S A,B : +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER	QS DEVICES THAT SUPPLY PDU	
ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI ENERGI SAVR NODE FOR 0–10V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0–10V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), 1A MYROOM DIN RAIL POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) GS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINK A: 0 LINK A: 0 LINK A: 0 LINK S A,B: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER	DIN RAIL POWER SUPPLY	+75
ENERGI SAVR NODE FOR 0–10V, ENERGI SAVR NODE WITH SOFTSWITCH, ENERGI SAVR NODE FOR 0–10V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) ENERGI SAVR NODE PHASE ADAPTIVE ENERGI SAVR NODE PHASE ADAPTIVE POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) SOMOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED GUESTROOM CONTROL UNIT -8 SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER +14 +14 +14 +14 +15 +15 +16 +17 +18 +18 +18 +19 +19 +10 +11 +18 +11 +19 +11 +19 +11 +11	QS PLUG-IN POWER SUPPLY, QS J-BOX POWER SUPPLY	+8
SOFTSWITCH, ENERGI SAVR NODE FOR 0–10V (DIN RAIL), ENERGI SAVR NODE WITH SOFTSWITCH (DIN RAIL) ENERGI SAVR NODE PHASE ADAPTIVE (DIN RAIL), 1A MYROOM DIN RAIL POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER 1-14 1-15 1-15 1-16 1-17 1-17 1-18 1-18 1-19	ENERGI SAVR NODE WITH ECOSYSTEM, ENERGI SAVR NODE WITH DALI	+30
POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE PHASE ADAPTIVE ENERGI SAVR NODE WITH DALI (DIN RAIL), ENERGI SAVR NODE WITH ECOSYSTEM (DIN RAIL) QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINKS A,B: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER +4 +3 LINK 4: 4 LINK A: 0 LINKS A, B: +33 EACH LINKS A, B: +33 EACH LINKS A, B: +33 EACH -1 -1 -1 -2 -2 -3 -3 -3 -3 -3 -3 -3 -3	SOFTSWITCH, ENERGI SAVR NODE FOR 0-10V (DIN RAIL), ENERGI SAVR	+14
ECOSYSTEM (DIN RAIL) QS MOTOR GROUP CONTROLLER (DIN RAIL), HOMEWORKS QS DIN RAIL POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINK A: 0 LINKS B,C,D: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER	POWER MODULE SWITCHING, 1A MYROOM DIN RAIL POWER MODULE	+4
POWER MODULES GRAFIK EYE QS (ALL MODELS EXCEPT GRAFIK EYE QS DALI WITH KNX), QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINK A: 0 LINKS B,C,D: +33 EACH QP3 QUANTUM LIGHTING HUB LINKS A,B: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER		+3
QS TIMECLOCK QP2 QUANTUM LIGHTING HUB LINK A: 0 LINKS B,C,D: +33 EACH QS DEVICES THAT CONSUME PDU QS WALLSTATION (SEETOUCH, ARCHITRAVE, SIGNATURE SERIES, QS PICO, KEYSWITCH, SINGLE COLUMN PALLADIOM), QS SLIDER, GRAFIK T SLIDER, QS INFRARED (IR) EYE, WALLBOX INPUT CLOSURE INTERFACE QS NETWORK INTERFACE, QS DMX INTERFACE, ENERGI SAVR NODE PROGRAMMING INTERFACE, QS WALLSTATION (DOUBLE COLUMN PALLADIOM) QS SENSOR MODULE (QSM), NOT INCLUDING ATTACHED WIRED SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS CONTACT CLOSURE INTERFACE, PALLADIOM ROOM THERMOSTAT GUESTROOM CONTROL UNIT SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER LINK A: 0 LINK B. C: A SEMESTICAL -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	, , , , , , , , , , , , , , , , , , , ,	0
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SENSORS & DEVICES THAT CONSUME PDUS WHEN WIRED TO A QSM LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER -0.5	SENSORS (SEE SECTION BELOW FOR MORE INFORMATION), QS	-3
LUTRON DAYLIGHT SENSOR, LUTRON INFRARED (IR) RECEIVER, PICO WIRED CONTROLLER -0.5	GUESTROOM CONTROL UNIT	-8
WIRED CONTROLLER	SENSORS & DEVICES THAT CONSUME PDUS WHEN W	TRED TO A QSM
ECOSYSTEM WALLSTATION -1	•	-0.5
	ECOSYSTEM WALLSTATION	-1

LOS C SERIES OCCUPANCY SENSOR, HIGH BAY OCCUPANCY SENSOR

QTY	SERVICE TITLE (MODEL NUMBER)	SERVICE DESCRIPTION
α	THE QUANTITY OF SERVIOR DOCUMENTS	CES BELOW ARE TO BE INCLUDED AS PART OF THIS PROJECT'S SCOPE OF WORK AND SPECIFIED INTO THE WRITTEN SPEC
		PRE-STARTUP SERVICES
	ONSITE PRE-WIRE VISIT (LSC-PREWIRE)	AN ONSITE VISIT WITH THE ELECTRICAL CONTRACTOR TO DISCUSS LOGISTICAL CONSTRUCTION CONSIDERATIONS INCLUDING THE WIRING AND MOUNTING OF SYSTEM DEVICES, THE CONSTRUCTION SCHEDULE, AND LUTRON DOCUMENTATION. QUANTITY DICTATHE NUMBER OF VISITS PURCHASED.
	SYSTEM & NETWORK INTEGRATION CONSULTATION (LSC-INT-VISIT)	A CONSULTATIVE VISIT WITH THIRD PARTY INTEGRATORS TO CONFIRM THE SPECIFIED SEQUENCE OF OPERATION AND DISCUSS INTEGRATION PROCEDURES NEEDED IN ORDER TO INTEGRATE WITH THE LUTRON EQUIPMENT. THIS MAY INCLUDE ANY OF THE FOLLOWING THIRD PARTY SYSTEMS: BMS, BAS, IT, NON-LUTRON SHADES, BACNET, AV, OR ENERGY DASHBOARDS.
	SENSOR LAYOUT & TUNING (LSC-SENS-LT)	LUTRON WILL TAKE RESPONSIBILITY FOR LUTRON-PROVIDED SENSOR PLACEMENT AND PERFORMANCE BY CREATING SENSOR LAYOUTS AND COORDINATING SENSOR PLACEMENT BEFORE AND AFTER INSTALLATION. ONCE THE BUILDING IS OCCUPIED, LUTR WILL RETURN UP TO TWO TIMES TO PERFORM SENSOR FINE-TUNING.
		STARTUP SUPPORT SERVICES (THESE SERVICES ARE ADDITIONAL TO YOUR SPECIFIED STARTUP BASED ON YOUR REQUIREMENTS)
	AFTER HOURS STARTUP (LSC-AH-SU)	STARTUP PROVIDED BETWEEN THE HOURS OF 5:00PM – 7:00AM, MONDAY - FRIDAY. THIS SCOPE OF WORK DOES NOT INCLUDE HOLIDAY OR WEEKEND WORK. ADDITIONAL FEES MAY APPLY FOR WORK TO BE COMPLETED ON WEEKENDS (FRIDAY 5:00PM – MO 7:00AM).
	ONSITE SCENE & LEVEL TUNING (LSC-AF-VISIT)	AN ONSITE VISIT WITH THE SPECIFIER OR CUSTOMER REPRESENTATIVE TO REVIEW THE DESIGN INTENT, FINE-TUNE THE SCENE LEVEL PROGRAMMING, AND MAKE ADJUSTMENTS TO TIMECLOCKS.
	ONSITE PERFORMANCE-VERIFIC ATION WALKTHROUGH (LSC-WALK)	AN ONSITE WALKTHROUGH WITH FACILITY REPRESENTATIVES OR PROJECT COMMISSIONING AGENTS TO DEMONSTRATE THAT T SYSTEM FUNCTIONALITY MEETS THE DESIGN INTENT. THIS MAY INCLUDE ANY OF THE FOLLOWING ONSITE ACTIVITIES – CONSULTATION/TRAINING DEMOS, FUNCTIONAL TESTING ASSISTANCE, OR INVENTORY OF LUTRON EQUIPMENT.
	SYSTEM PERFORMANCE-VERIFIC ATION DOCUMENTATION (LSC-SPV-DOC)	COMPLETION OF DOCUMENTATION WHICH PROVIDES PERFORMANCE VERIFICATION CERTIFYING THE LUTRON EQUIPMENT HAS BE THOROUGHLY TESTED. IT SUPPORTS THE DOCUMENTATION REQUIREMENTS OF MANY BUILDING STANDARDS.
	TITLE 24 ACCEPTANCE TEST VISIT (LSC-SPV-DOC-T24)	ACCEPTANCE TESTING BY A LUTRON CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (CLCATT) TO FULFILL THE REQUIRED TITLE 24 INTERIOR LIGHTING CONTROL TESTS.
		POST-STARTUP SERVICES
	CUSTOMER-SITE SOLUTION TRAINING (LSC-TRAINING-SP)	A VISIT TO TEACH SYSTEM USERS HOW TO OPERATE AND MAINTAIN THE LIGHTING CONTROL SYSTEM.
	SYSTEM OPTIMIZATION (LSC-SYSOPT-SP)	AN ONSITE CONSULTATIVE VISIT TO IDENTIFY AND IMPLEMENT LIGHTING CONTROL ADJUSTMENTS TO SAVE ADDITIONAL ENERGY CREATE A MORE PRODUCTIVE WORK ENVIRONMENT.
		MAINTENANCE & SUPPORT SERVICES
	SOFTWARE MAINTENANCE AGREEMENT (LSC-SMA-SP)	PROVIDES COMPATIBILITY TESTING RESULTS OF QUANTUM WITH OPERATING SYSTEM PATCHES AND WEB BROWSER UPDATES. INCLUDES AN ELECTIVE FREE SOFTWARE UPGRADE LICENSE.
1	COMMERCIAL SYSTEMS 2-YEAR LIMITED WARRANTY (LSC-B2)	A 2-YEAR SYSTEM WARRANTY PROVIDING 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME.
	ENHANCED SILVER (LSC-E8S)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A FIRST-AVAILABLE RESPONSE TIME; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED GOLD (LSC-E8G)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 72-HOUR RESPONSE TIME AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	ENHANCED PLATINUM (LSC-E8P)	YEARS 1-2 - 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR COVERAGE WITH A 24-HOUR RESPONSE TIME AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT; YEARS 3-5 - 50% PARTS ONLY COVERAGE; YEARS 6-8 - 25% PARTS ONLY COVERAGE.
	SILVER TECHNOLOGY SUPPORT PLAN (LSC-SILV-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A FIRST-AVAILABLE ONSITE OR REMOTE RESPONSE TIME.
	GOLD TECHNOLOGY SUPPORT PLAN (LSC-GOLD-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON LABOR WITH A 72-HOUR ONSITE OR REI RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH YEAR.
	PLATINUM TECHNOLOGY SUPPORT PLAN (LSC-PLAT-IW)	AN ANNUAL SERVICE PLAN THAT COVERS 100% REPLACEMENT PARTS AND 100% LUTRON DIAGNOSTIC LABOR WITH A 24-HOUR ONSITE OR REMOTE RESPONSE TIME. ALSO INCLUDES AN ANNUAL (1-DAY) SCHEDULED PREVENTIVE MAINTENANCE VISIT EACH Y
	PREVENTIVE MAINTENANCE VISIT(S) (LSC-SCH-MAINT)	SCHEDULED MAINTENANCE VISIT TO PERFORM PREVENTIVE MAINTENANCE, MINOR PROGRAMMING, AND CONDUCT SYSTEM TRAININGS. QUANTITY IS IN ADDITION TO ANY YEARLY VISITS SPECIFIED WITH AN ENHANCED WARRANTY OR TECHNOLOGY SUPPPLAN.
		PLEASE GO TO WWW.LUTRON.COM/SERVICES FOR FURTHER INFORMATION.

One-Line Wire Legend △Q QS Control Link (Connect wires 1, 2, 3 and 4)* ▲ QS Control Link (Connect wires 1, 3 and 4. Do not connect wire 2)*

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Job No: 15-061

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other project, by anyone other than the original engineer,

E Ethernet cable. CAT5E or better cable for Lutron Network terminated with RJ45 connectors (to be provided by others). 328 ft (100m) maximum run.

Fiber optic cable for Lutron Network terminated with appropriate fiber optic connectors (to be provided by others). Requires dedicated fiber optic link (single-mode or multi-mode)

∇P Panel Control Link (Connect wires 1, 2, 3, 4

▼P Panel Control Link (Connect wires 1, 2, 3 and

>P Panel Control Link (Connect wires 1, 3, 4 and

Normal Input Power 2 #12 AWG (4 sq mm) +

Normal-Emergency Input Power 2 #12 AWG (4

3 Phase 4 wire Input Power, 4 #12 AWG (4 sq

4. Do not connect wire #5)*

Do not connect wire #2)*

QS Sivoia Shade Control Link*

sq mm) + ground

mm) + ground

● 2 #12 AWG (4 sq mm) + ground

3 #12 AWG (4 sq mm) + ground

2#18 AWG (1.0 sq mm)

3#18 AWG (1.0 sq mm)

EcoSystem Bus/Loop*

4#22 AWG (1.0 sq mm)

3#22 AWG (1.0 sq mm)

♠ DALI Loop

D DMX Cable*

◆ 0-10V Signal: 2#18AWG (1.0 sq mm)

Lutron Sensor Cable C-CBL-522S or use

Lutron Sensor Cable C-CBL-522S or use

— — RF Connection — Wired Connection

*Please refer to Notes on Wiring for more wiring **Refer to Load Schedule for feed and load

UNLV-Vivarium Location: Las Vegas, Nevada

Project Number: Christiaan Alderfer

File Name:

UNLV-Vivarium.lutd **Document Revision:**

June 14, 2016 | Sheet 1 of 3

For detailed definition of product capabilities refer to product specification submittal sheets.

⚠ NOT FOR CONSTRUCTION

\$LUTRON. 7200 Suter Road Coopersburg, PA 18036, USA

+1.610.282.3800 | Fax: +1.610.282.1146

VIVARIUM LIGHTING CONTROLS SEQUENCE OF OPERATIONS:

GENERAL:

Lutron Designer 9.1

ALL FIXTURES ARE LED.

HOLDING, BEHAVIOR, AND QUARANTINE ROOMS:

- 1. EACH ROOM WHITE LIGHT IS CONTROLLED BY SEPARATELY PROGRAMMABLE CIRCADIAN RHYTHM AT 30 F.C. CONTROL OF THE HOLDING ROOM WHITE LIGHTS IS BY THE CONTROL PANEL ONLY, 30 F.C. UNOCCUPIED WITH OVERRIDE CONTROL FOR 60 F.C. FOR MAINTENANCE.
- 2. DIMMING TRANSITION FROM DAY-TO-NIGHT AND NIGHT-TO-DAY SHALL RAMP UP/DOWN OVER 30 MINUTES.
- 3. ONE WALL SWITCH AT EACH DOOR (OUTSIDE THE ROOM) ONLY CONTROLS RED FOR THAT ROOM, PLUS TURNS ALL THE HALLWAYS RED IF ANY ROOM GOES TO RED, TO PREVENT DOOR LIGHT LEAKAGE WHEN IT OPENS.
- 4. DURING EMERGENCY POWER TRANSITION FROM UTILITY TO GENERATOR (UP TO TEN SECONDS), THE LIGHTING WILL TURN OFF DUE TO LACK OF POWER, BUT THE CONTROL SYSTEM SHALL REMAIN ACTIVE USING A UPS SUCH THAT WHEN LIGHTING POWER IS RESTORED, ALL LIGHTING WILL COME ON IN THE CONDITION PRIOR TO THE POWER OUTAGE. THIS REQUIREMENT ALSO APPLIES TO THE TRANSITION FROM EMERGENCY POWER BACK TO UTILITY POWER.

HALLWAYS:

1. HALLWAYS WHITE LIGHTS ARE CONTROLLED BY OCCUPANCY SENSORS, EXCEPT TURNED TO RED IF ANY HOLDING ROOM COMMANDED RED (TO PREVENT DOOR LIGHT LEAKAGE WHEN IT OPENS.) IF THE HALLWAYS OCCUPANCY SENSOR TIMES OUT, UPON RE-SENSING A HALLWAY OCCUPANT, HALLWAYS LIGHTS TURN ON TO PREVIOUS CONDITION (RED OR WHITE DEPENDING ON WHAT IT WAS PRIOR TO TIME-OUT).

SURGERY, PREP, AND ELECTRICAL ROOMS ARE CONTROLLED BY WALL SWITCH WITHOUT OCCUPANCY SENSORS.

ALL OTHER AREAS ARE CONTROLLED BY WALL SWITCH OCCUPANCY SENSORS.

REFER TO UNLV SPECIFICATIONS DATED AUGUST 26, 2015.

Ballast Loop Schedule E101>MECHANICAL 027>ESN Eco #2 EcoSystem Link 1 (10 of 64 zones) (58 of 64 ballasts) E101>BEHAVIOR 019 120V LED EcoSystem 120V LED EcoSystem E101>BEHAVIOR 020 120V LED EcoSystem E101>BEHAVIOR 021 E101>CLEAN STORAGE 025 120V LED EcoSystem 120V LED EcoSystem E101>HOLDING 017 120V LED EcoSystem E101>HOLDING 023 E101>HOLDING 024 120V LED EcoSystem 120V LED EcoSystem E101>PROCEDURE 018 E101>VESTIBULE 016 120V LED EcoSystem 7200 Suter Road
Coopersburg, PA 18036, USA
+1.610.282.3800 | Fax: +1.610.282.1146 | Quotation Number: Created by: Christiaan Alderfer Document Revision:

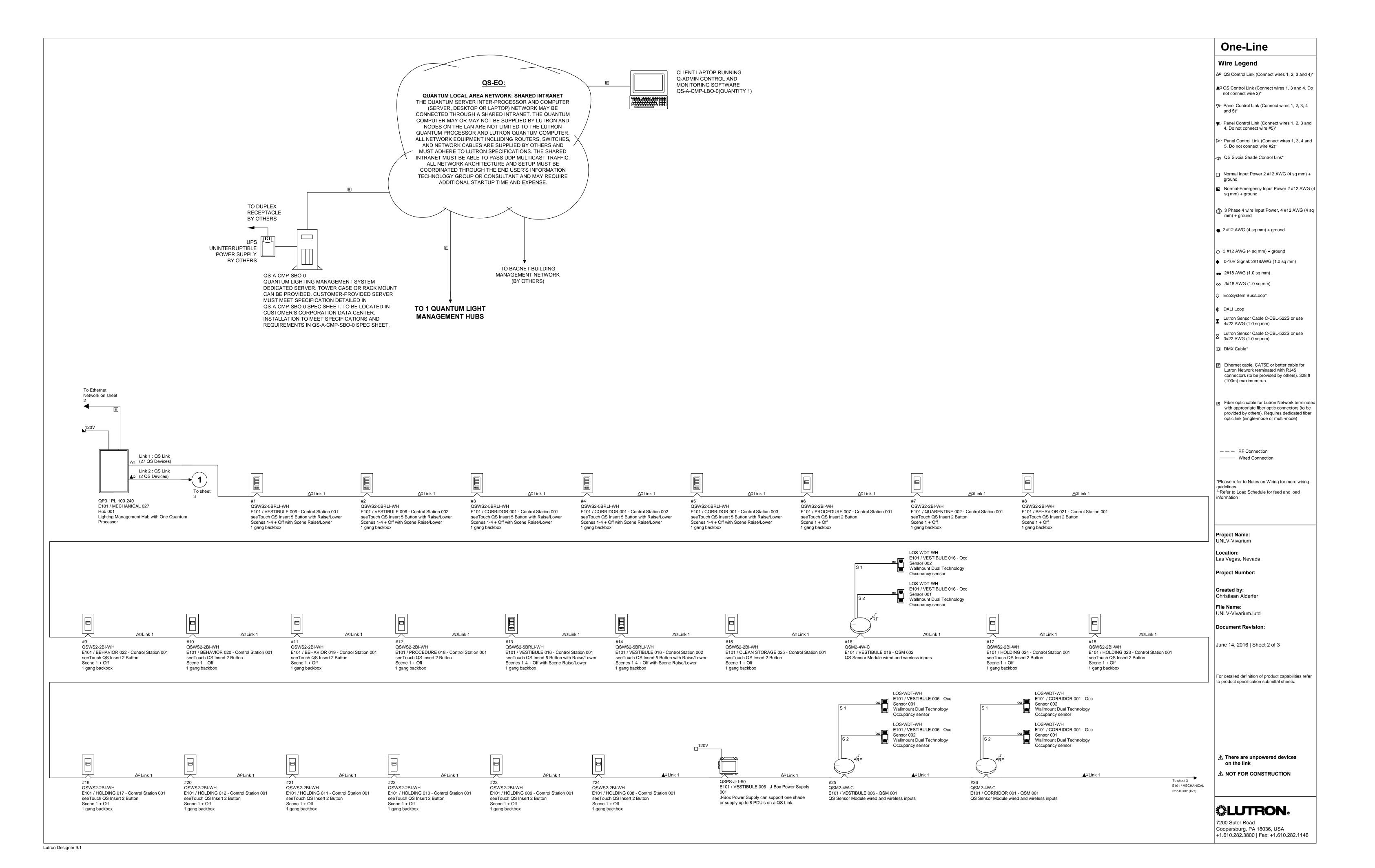
Zone								
	Volt	tage L	_oad Type	Emergency	Interface (Count)	Fixture	Ballast Count	Fixture Quantit
а	120			No	-	A (2X2)	12	6
а	120	V	_ED	No	-	A (2X2)	4	2
a	120	V L	_ED	No	-	A (2X2)	8	4
а	120	V L	_ED	No	-	A (2X2)	8	4
а	120	V L	_ED	No	-	A (2X2)	20	10
а	120	V L	_ED	No	-	A (2X2)	12	6
zones) (22 of 64 ballasts)	•					-	-	•
Zone	Volt	tage L	_oad Type	Emergency	Interface (Count)	Fixture	Ballast Count	Fixture Quanti
а	120	-		No	-	A (2X2)	8	4
а	120			No	-	A (2X2)	4	2
a	120	V L	_ED EcoSystem	No	-	A (2X2)	4	2
		[_0000 y 310111					
	a a a a a cones) (22 of 64 ballasts) Zone a a	a 120 a 120 a 120 a 120 a 120 a 120 cones) (22 of 64 ballasts) Zone Vol: a 120 a 120	a 120V	a	EcoSystem	a	a	a

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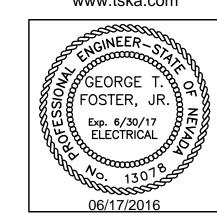
Sheet Title LIGHTING CONTROL **NOTES - VIVARIUM**

Date: 06/17/2016



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Job No: 15-061

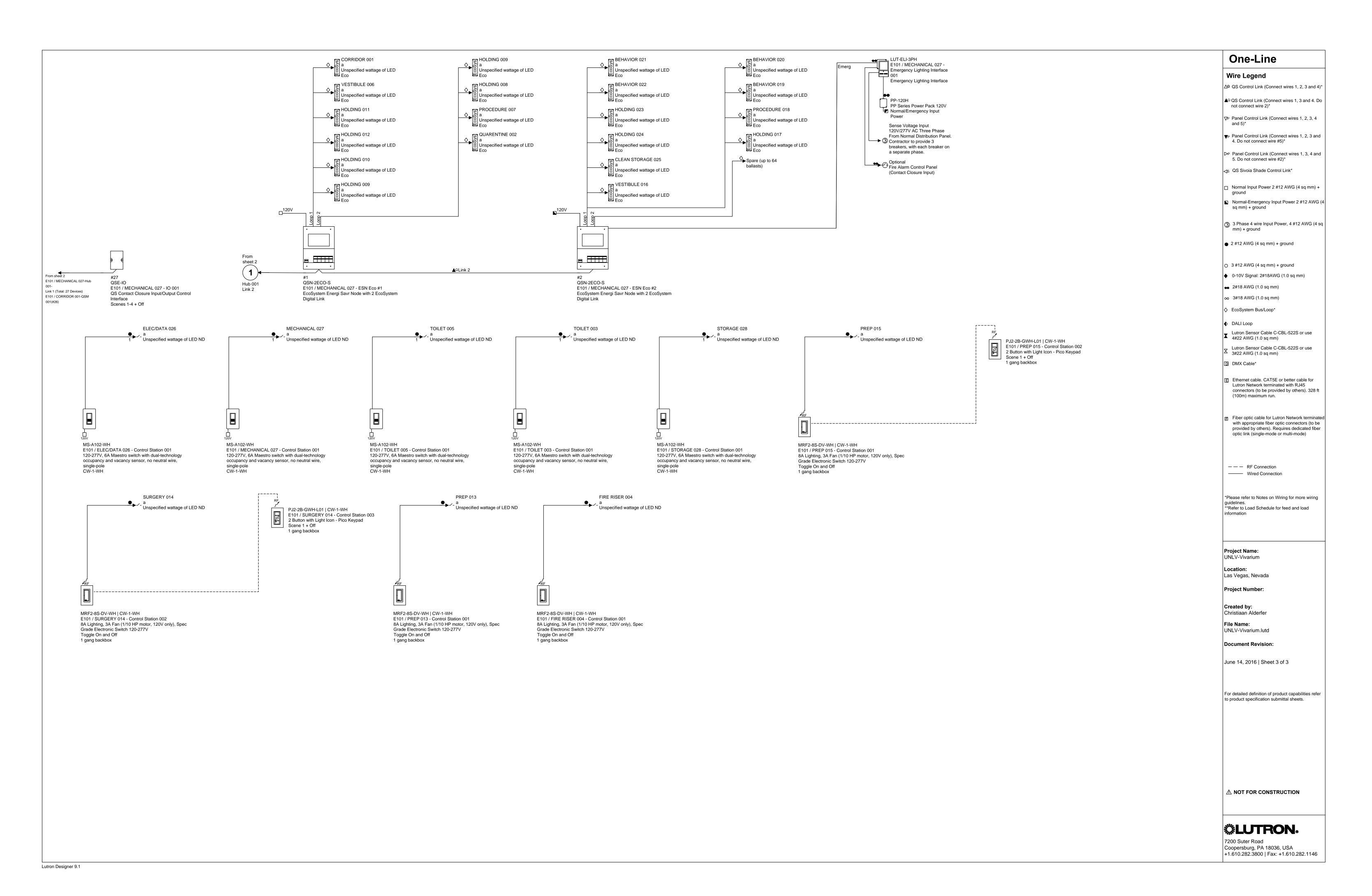
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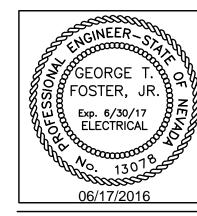
PHASED LIGHTING
CONTROL DIAGRAMS VIVARIUM

Date: 06/17/2016 Sheet No:



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Job No: 15-061

Owner

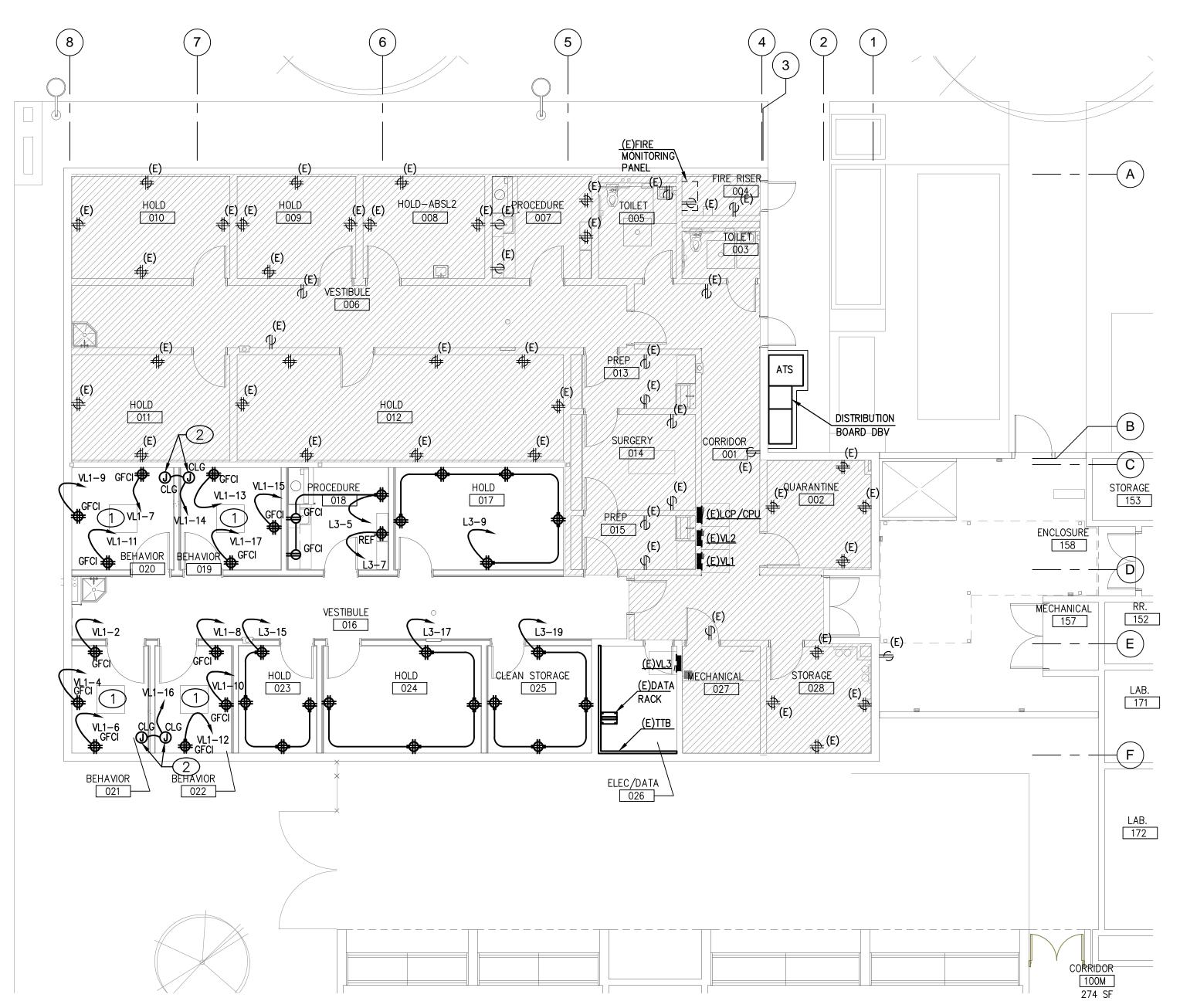
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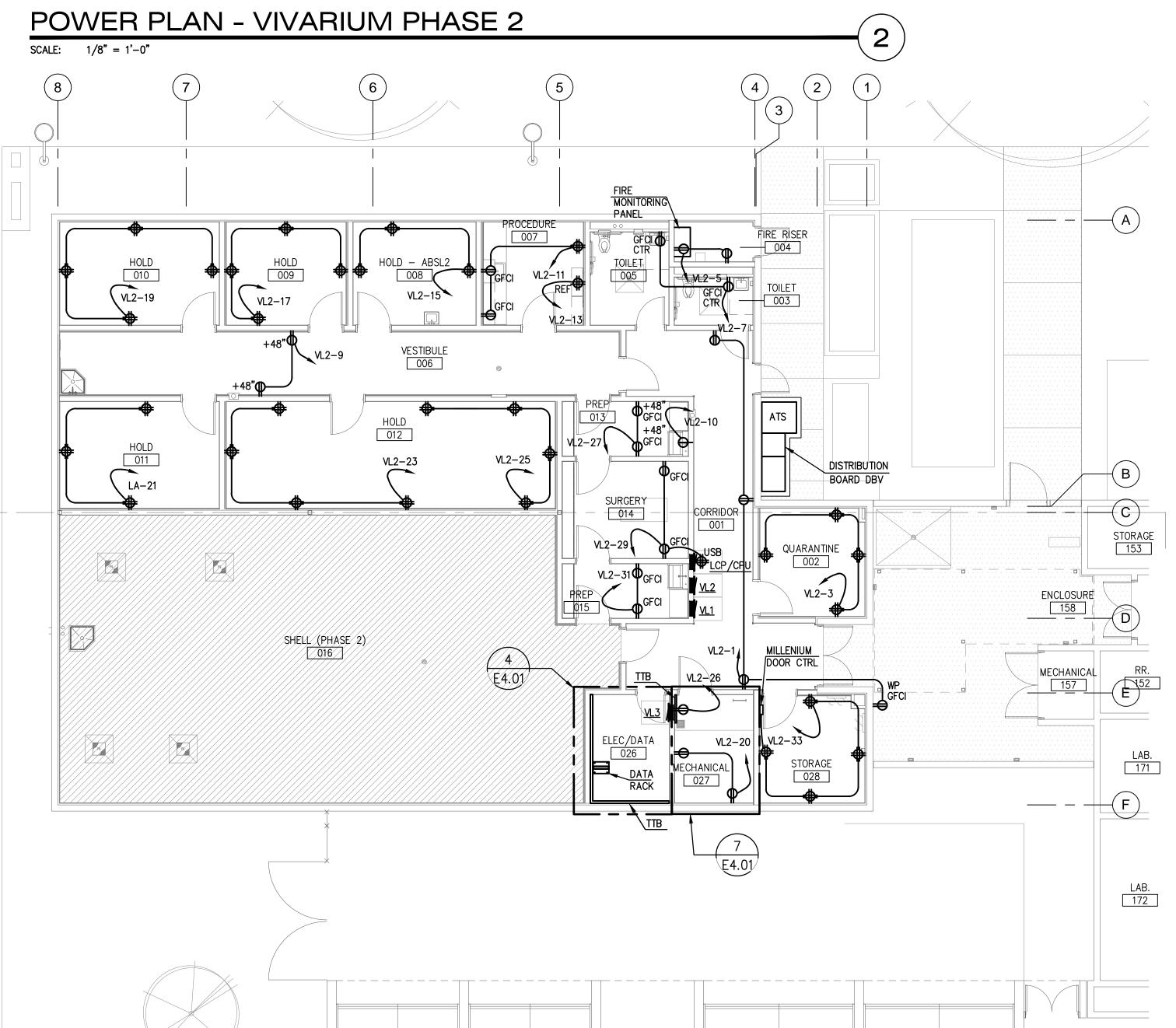
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CONTROL DIAGRAMS VIVARIUM

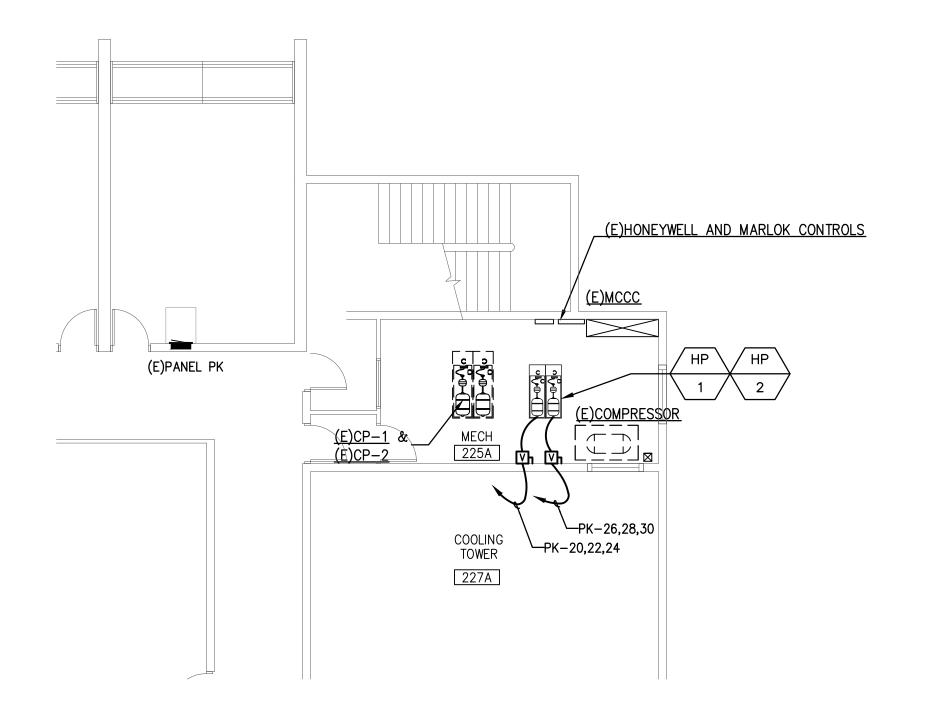
Date: 06/17/2016 Sheet No:





POWER PLAN - VIVARIUM PHASE 1

SCALE: 1/8" = 1'-0"



POWER PLAN - VIVARIUM

SCALE: 1/8" = 1'-0"

MECHANICAL ROOM 225

GENERAL NOTES

INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS.
CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:

YOUR DETAILED EXAMINATION OF THE DRAWINGS AND SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,

ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE,

THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.

2. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VERMIN PROOF.

3. VERIFY ALL DEVICE MOUNTING HEIGHTS
PRIOR TO ROUGHING IN. IN HOLDING,
QUARANTINE AND BEHAVIOR ROOMS, MOUNT
120V, 20A, QUADRUPLEX OUTLETS AT WALLS
6'-0" ABOVE FLOOR, UNLESS NOTED
OTHERWISE.

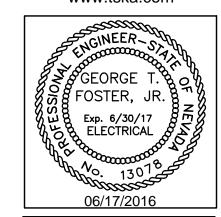
KEYNOTES

ALL RECEPTACLES IN THIS ROOM SHALL BE WP, GFCI AND ISOLATED GROUND.

CEILING MOUNTED JUNCTION BOX FOR CAMERA. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

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Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

PERMIT SET

		REVISIONS
REV	DATE	DESCRIPTION

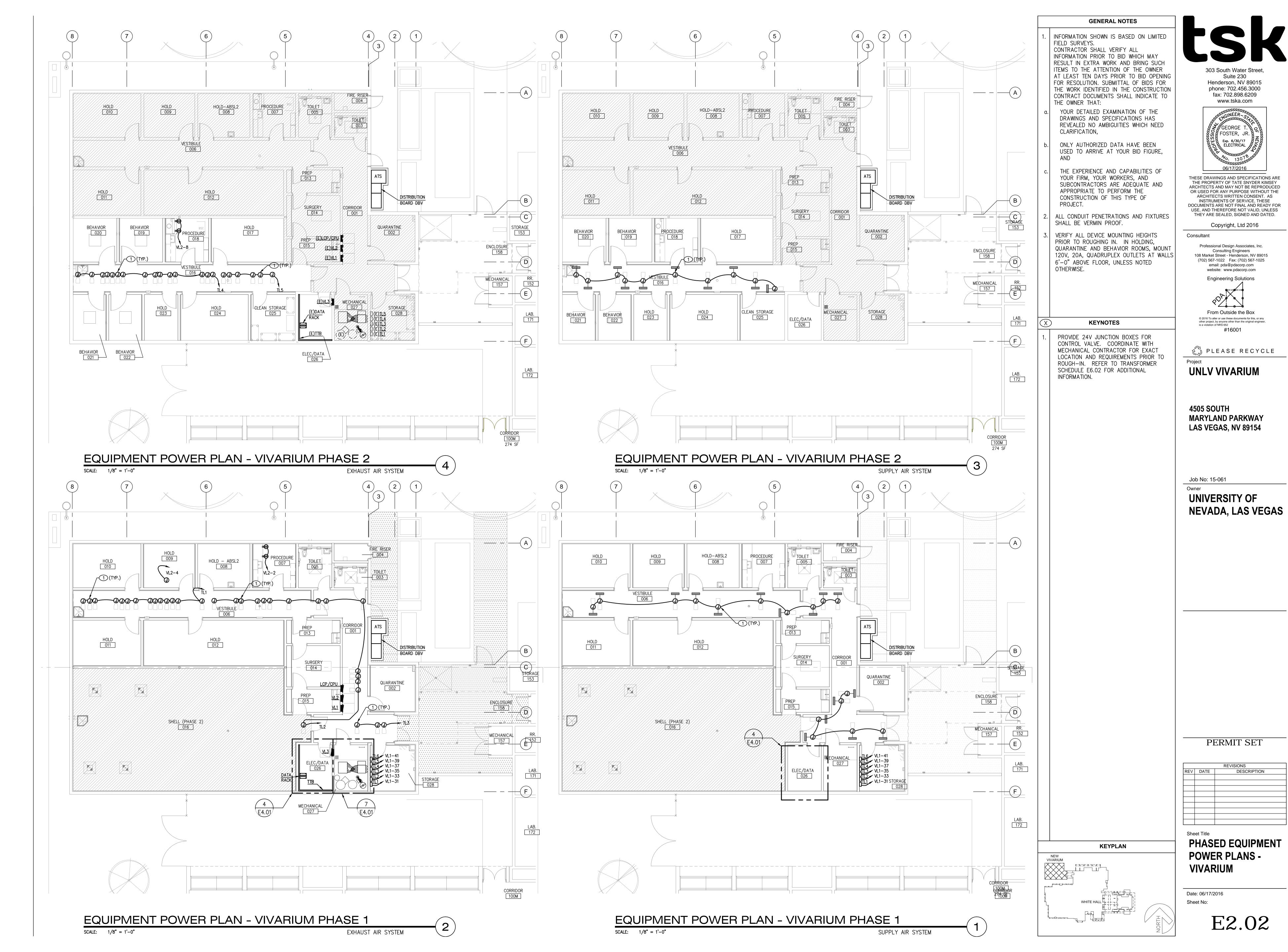
PHASED POWER PLANS
- VIVARIUM

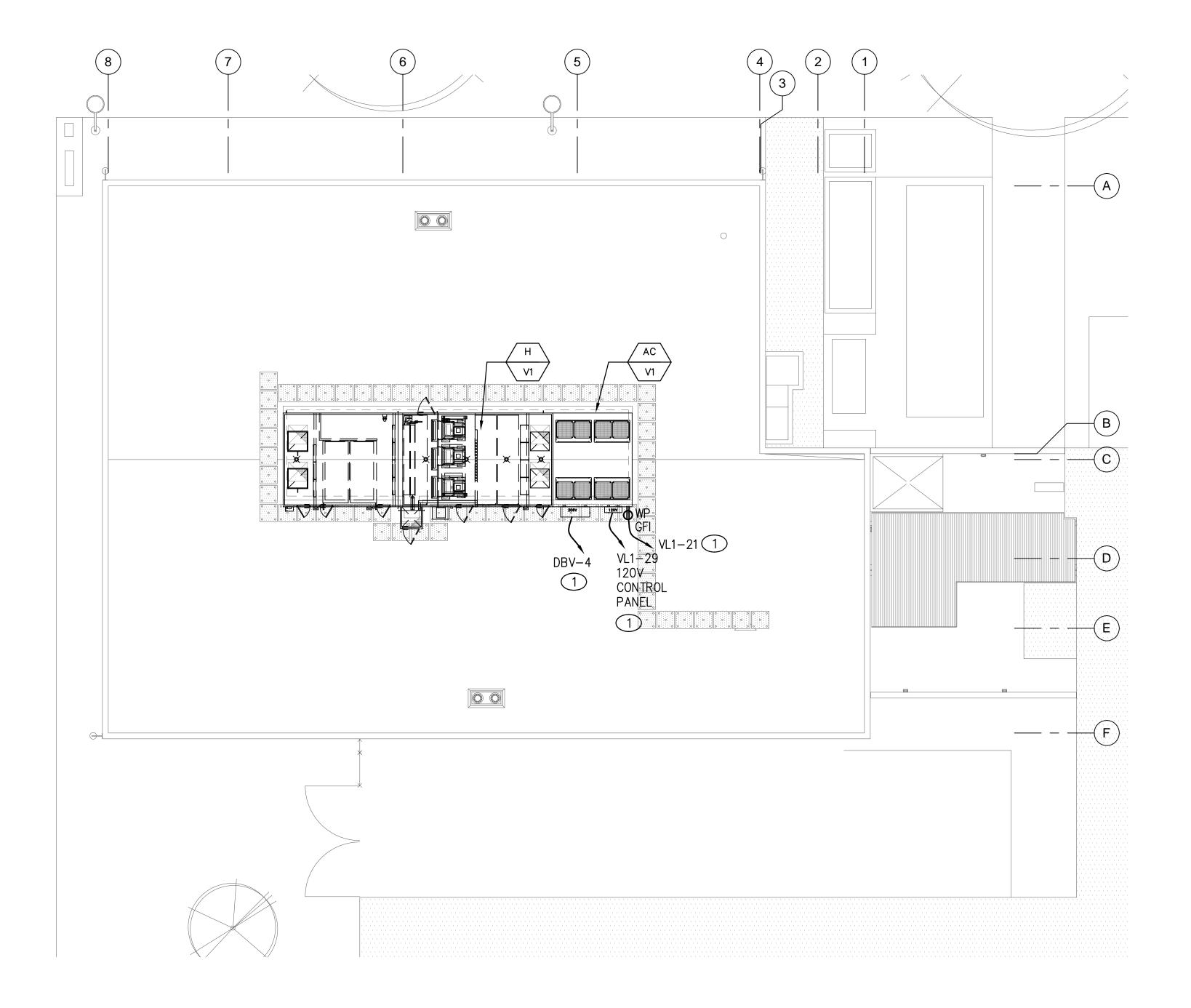
Date: 06/17/2016

Sheet No:

E2.01

KEYPLAN





ROOF EQUIPMENT POWER PLAN - VIVARIUM

SCALE: 1/8" = 1'-0"

GENERAL NOTES

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CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:

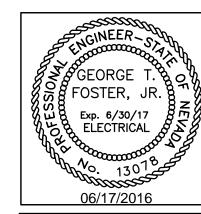
- a. YOUR DETAILED EXAMINATION OF THE DRAWINGS SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,
- ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND
- THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.
- 2. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF
- 3. VERIFY ALL DEVICE MOUNTING HEIGHTS PRIOR TO ROUGHING IN. 115V20A1PH FOURPLEX (QUADRUPLEX) OUTLETS AT WALLS 6'-0" ABOVE FLOOR. UNLESS NOTED OTHERWISE.

KEYNOTES

1. ALL CONDUITS SHALL BE ROUTED WITHIN EQUIPMENT CURB.

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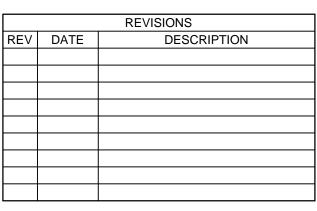
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ROOF EQUIPMENT
POWER PLAN VIVARIUM

Date: 06/17/2

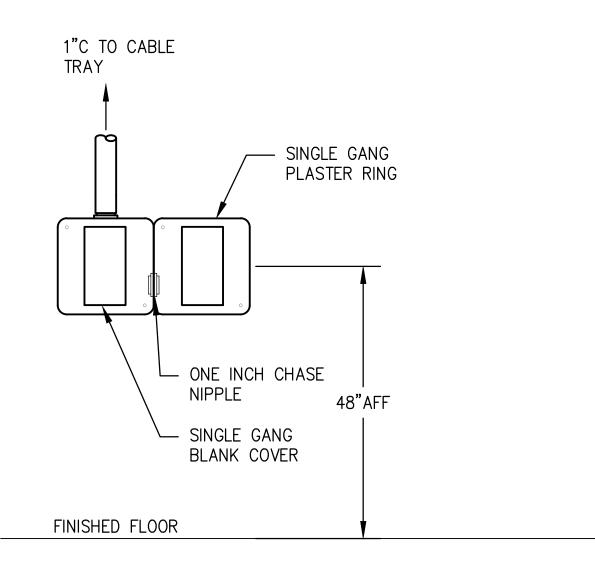
E2.03

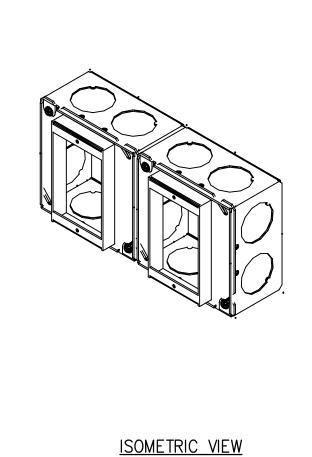
LEGEND

DATA WALL OUTLET 18" AFF. COORDINATE WITH OWNER'S REPRESENTATIVE VOIP WALL OUTLET VERIFY EXACT MOUNTING

HEIGHT WITH OWNER'S REPRESENTATIVE

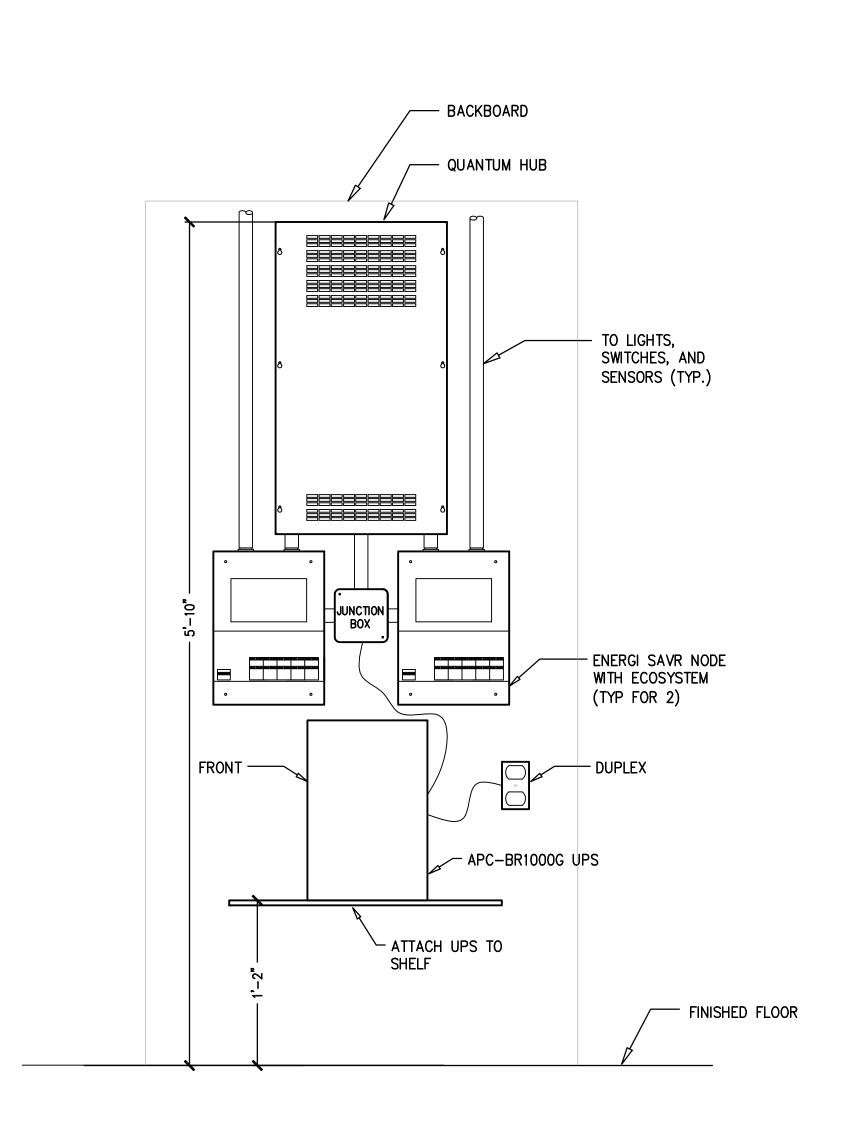
- COMBINATION VOIP/ANALOG WALL OUTLET VERIFY EXACT MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE
- ▼ DATA CEILING OUTLET VERIFY EXACT MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE
- ☑ WIRELESS ACCESS POINT. VERIFY EXACT MOUNTING REQUIREMENTS AND LOCATION WITH OWNER'S REPRESENTATIVE
- CR CARD READER.
- CR CARD READER (FUTURE)
- A FIRE ALARM RED STROBE AND HORN (LESS THAN 900 HZ)



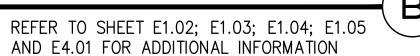


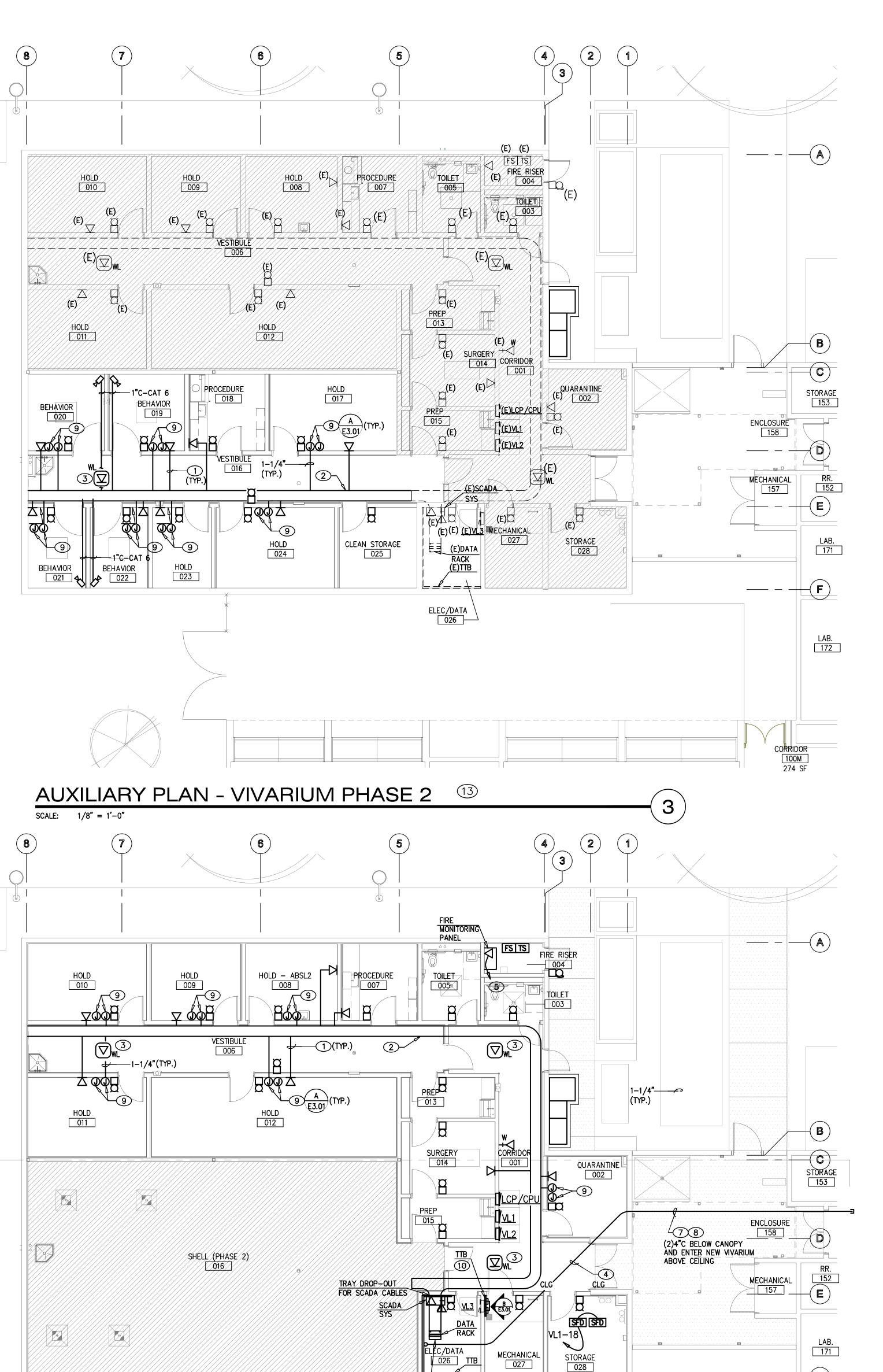
SCADA DROPS (TYPICAL)

SCALE: NOT TO SCALE



LUTRON CONTROL PANEL **ELEVATION**





AUXILIARY PLAN - VIVARIUM PHASE 1 (13)

SCALE: 1/8" = 1'-0"

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Owner

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ALL CONDUIT PENETRATIONS AND FIXTURES

SHALL BE VARMIN PROOF

3. I FIRE ALARM CHIME STROBE LESS THAN 900 MEGAHERTZ.

I. VERIFY ALL DEVICE MOUNTING HEIGHTS PRIOR TO ROUGHING IN.

5. ALL DATA OUTLET CABLING SHALL BE CAT-6A.

KEYNOTES

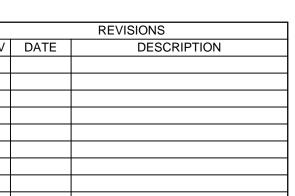
- 1"C TO CABLE TRAY. PROVIDE CAT-6A CABLE FROM OUTLET TO ROOM 026 DATA RACK. REFER TO DETAIL 2/E4.01 FOR ADDITIONAL INFORMATION.
- 2. | 18"x4" DEEP CENTER SUPPORT OPEN LADDER CABLE TRAY.
- WIRELESS ACCESS POINT (2)CAT-6A CABLES FROM EACH LOCATION TO DATA RACK IN ROOM 026.
- RATED ROOM 028. 5. 3/4"C TO CABLE TRAY FOR FIRE MONITORING

4. DO NOT ROUTE THIS CONDUIT THROUGH FIRE

- 6. FIRE ALARM STROBES TO FLASH RED.
- PROVIDE (1) 24 STRANDS OF SINGLE-MODE FIBER FROM ROOM 026 TO WHITE HALL ROOM 181 IN ONE OF TWO 4"CONDUITS.
- PROVIDE (1)25 PAIR TELEPHONE CABLE FROM ROOM 026 TO WHITE HALL ROOM 181 IN ONE OF TWO 4"CONDUITS.
- 9. IN EACH BEHAVIOR, HOLDING AND QUARANTINE ROOM, ALONG THE WALL ADJACENT TO THE CORRIDOR, PROVIDE(1)1" CONDUIT FROM TWO INDIVIDUAL 4-S DEEP BOXES (WITH SINGLE GANG RINGS SEPARATED BY 2 INCHES), 48" AFF, UP TO CABLE TRAY FOR SCADA SYSTEM. SEE DETAIL-A/E3.01.

10. 3'x8'x3/4" FIRERATED BACKBOARD.

- 1. DIV. 16 CONTRACTOR SHALL INSTALL CAT 6A CABLE BETWEEN THE EV VALVE ON ROOF DOWN INTO DATA ROOM. THE CAT 6A CABLE INSTALLATION FOR THE ENERGY VALVE CONTROL MODULE SHALL BE REVIEWED AND APPROVED (CERTIFIED) BY THE UNLV OFFICE OF INFORMATION TECHNOLOGY PRIOR TO CONNECTION TO THE DATA NETWORK.
- 12. PROVIDE A 750VA RACK-MOUNTED UPS FOR JACE EQUIPMENT.
- 3. PROVIDE A COMPLETE CODE COMPLIANT DESIGN/BUILD FIRE ALARM SYSTEM THROUGHOUT THE ENTIRE BUILDING. CONNECT ALARM, TROUBLE, AND SUPERVISORY FORM-C CONTACTS FROM THE FACP TO THE BAS/JACE FOR CAMPUS BAS MONITORING.



Sheet Title PHASED AUXILIARY **PLANS - VIVARIUM**

Date: 06/17/2016 Sheet No:

E3.01

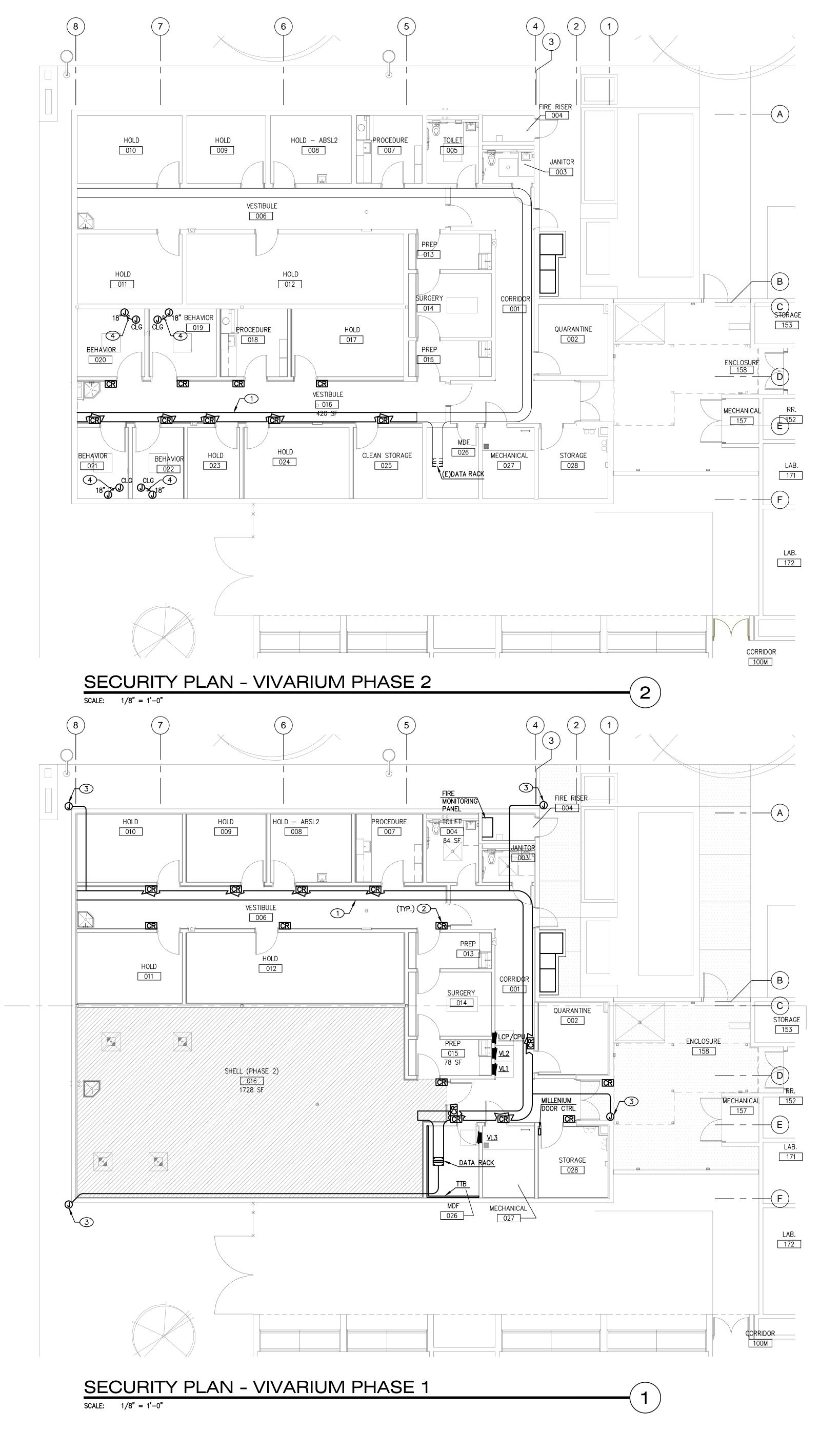


LOW VOLTAGE INSTALLATION SHALL MEET UNLV CAMPUS WIRING
STANDARDS DATED AUGUST 26, 2015

KEYPLAN VIVANION era era

NOTE:

LAB. 172



GENERAL NOTES

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INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:

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ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF

3. FIRE ALARM CHIME STROBE LESS THAN 900 MEGAHERTZ.

F. VERIFY ALL DEVICE MOUNTING HEIGHTS PRIOR TO ROUGHING IN.

5. ALL DATA OUTLET CABLING SHALL BE CAT-6A.

KEYNOTES

18"x4" DEEP CENTER SUPPORT OPEN LADDER CABLE TRAY.

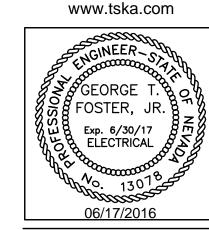
PROXIMITY BQ CARD READERS AT ALL INTERIOR DOORS (EXCLUDING RESTROOMS). ALL BUILDING ENTRANCES SHALL HAVE CARD READERS PER UNLV SPECIFICATIONS. VERIFY WIRING REQUIREMENTS AND EXACT LOCATIONS AND MOUNTING HEIGHTS WITH LOCK SHOP. DOOR LATCH WILL CLICK AND CARD READER BEEPS.

3. CAMERA MOUNT AT 15 FEET AFF. PROVIDE 2"C W/(2)CAT-6A TO ROOM 026.

. IN CEILING DATA JUNCTION BOXES SHALL BE 4S DEEP OR 5S AS A MINIMUM FOR PROPRIETARY VIDEO MONITORING. 1-1/2"C FROM CEILING TO 4S DEEP OR 5S AS A MINIMUM JUNCTION BOX ON WALL 18" AFF WITHIN 3 FEET OF DATA DROP.

L--

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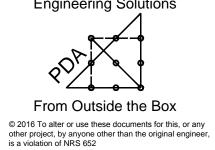
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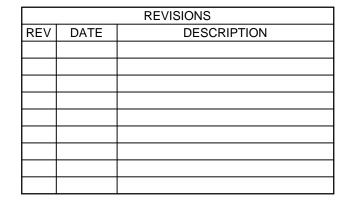
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Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

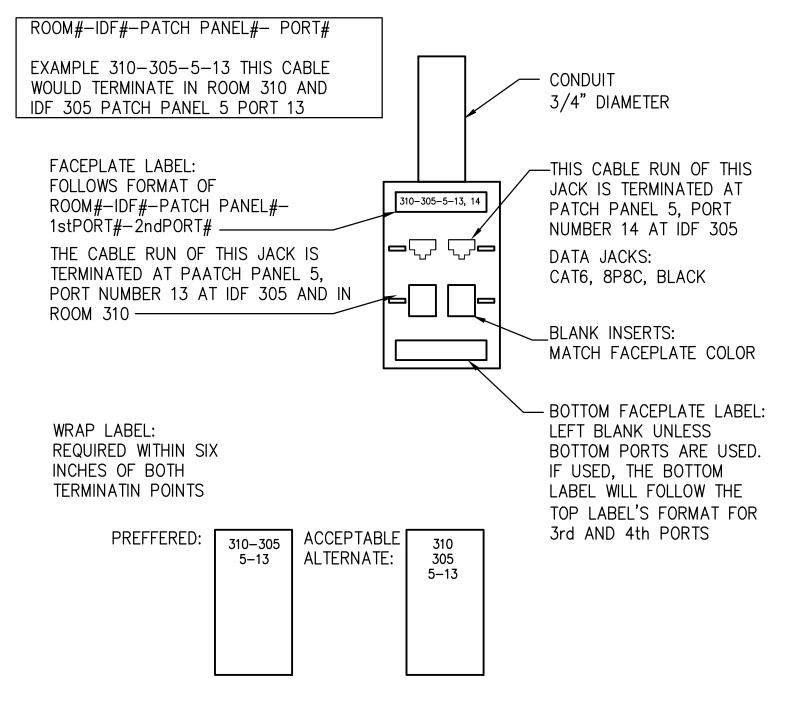
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Sheet Title PHASED SECURITY **PLANS - VIVARIUM**

Sheet No:

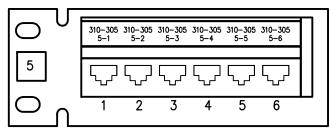
E3.02



PATCH PANEL LABELS:

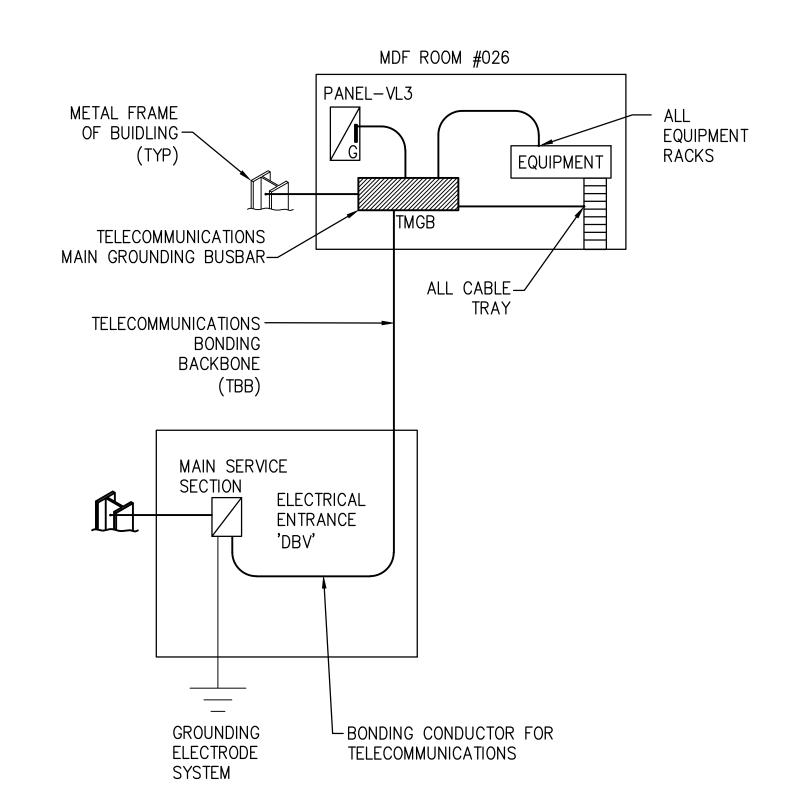
PATCH PANEL WILL BE LABELED AS SHOWN.. THE LABEL WILL BE A NUMBER UNIQUE TO THE RACK. IF IT IS THE TOP PATCH PANEL IN THE RACK IT WILL BE LABELED 1 IF IT IS THE NEXT PATCH PANEL DOWN FROM THE TOP IT WILL BE LABELED 2 AND SO ON.





STANDARD LABEL SCHEME

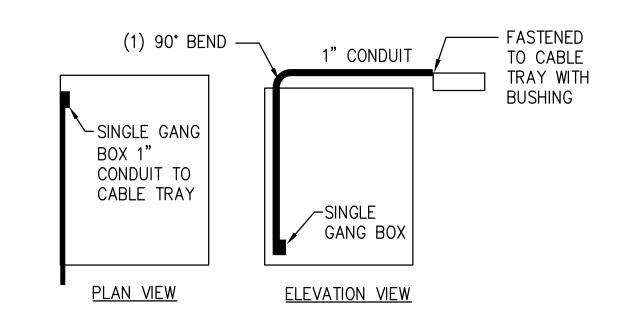
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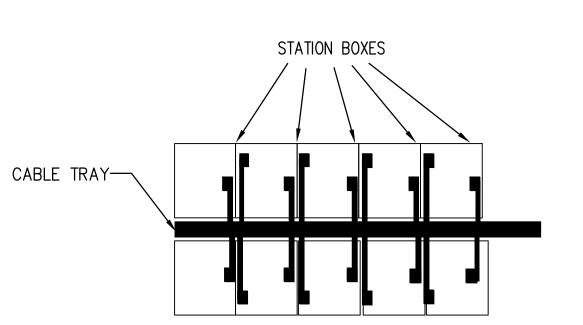


LOW VOLTAGE GROUNDING DETAIL

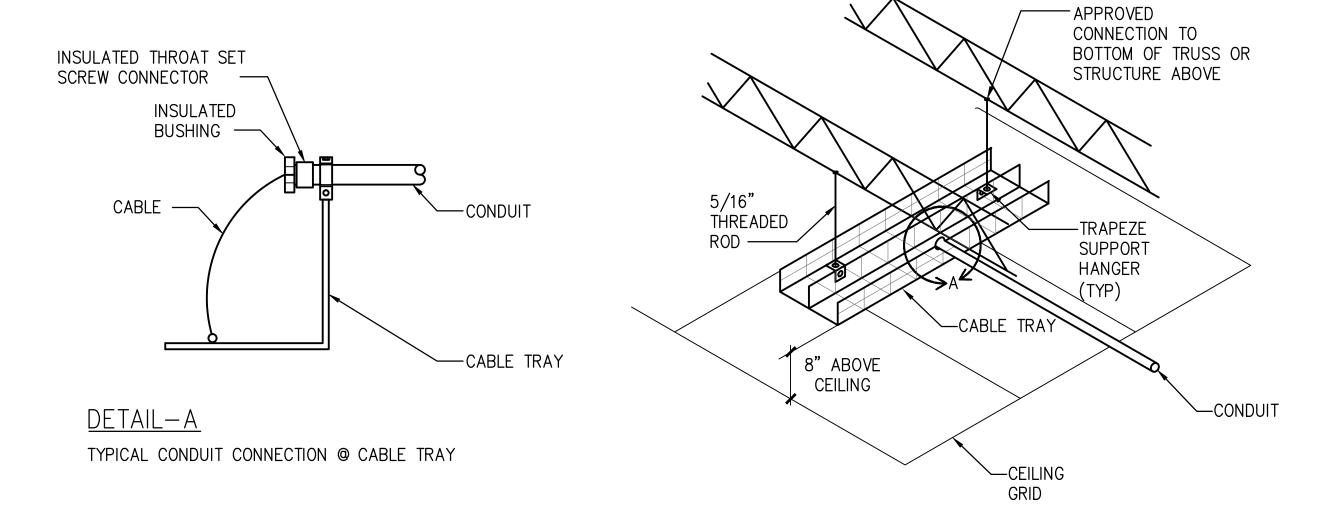
SCALE: NOT TO SCALE

(6)REFERENCE E3.01





STANDARD CONDUIT ROUTING SCALE: NOT TO SCALE



CABLE TRAY DETAIL

SCALE: NOT TO SCALE

REFERENCE E3.01

VL3-9,11-VL3-5,7— DATA RACK ELEC/DATA 026 98 SF

-¢ONDUIT RISE

ELEVATION VIEW

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

TMGB AND TGB DETAIL

SCALE: NOT TO SCALE REFERENCE E3.01

CRIMP OR MECHANICAL

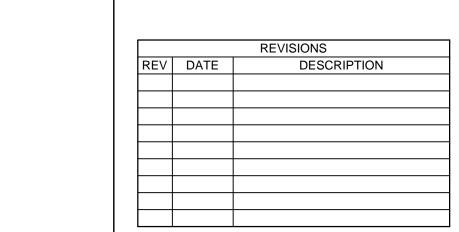
AS REQUIRED)

LUGS AS SPECIFIED (QTY

_3/8" PLATED BOLT

KEY NOTES

- 1 REFER TO DETAIL 5/E4.01 FOR ADDITIONAL INFORMATION.
- 2 THESE OUTLETS SHALL BE ORANGE COLOR AND LOCATED WITHIN 4'-0" OF THE REAR OF THE RACKS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- 3 BACKBOARDS SHALL BE PLYWWOD 3/4"x4'x8' SHEETS, GRADE A, TREATED ON ONE SIDE WITH FIRE RESISTANT PAINT OR MATERIAL, INSTALLED WITH FINISHED SIDE EXPOSED.



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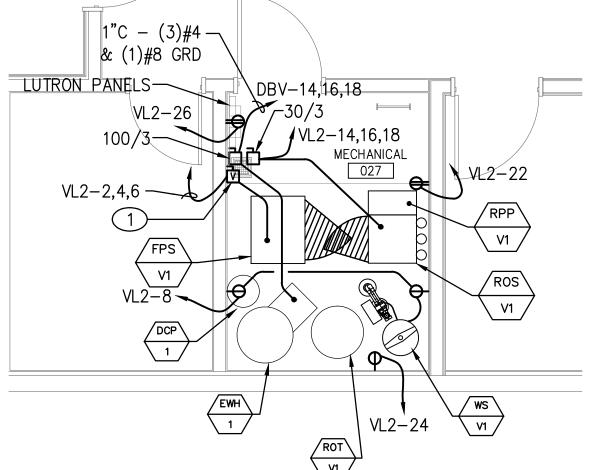
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DETAILS

Sheet No:

E4.01

ENLARGED ELEC/DATA RM ELECTRICAL PLAN SCALE: 1/4" = 1'-0"REFERENCE E2.01



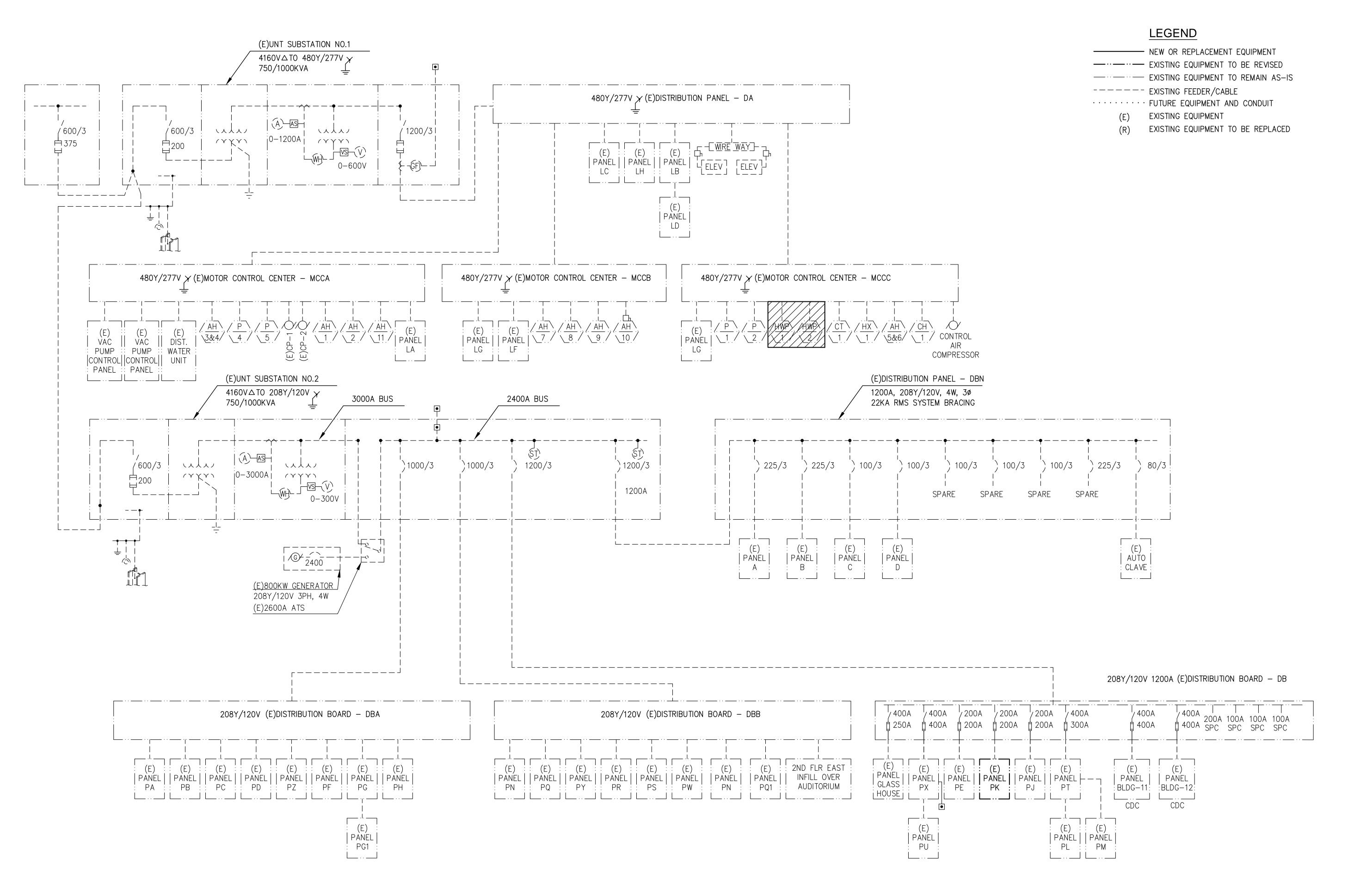
KEY NOTES

1 VFD FURNISHED BY MECHANICAL CONTRACTOR, CONNECTIONS

BY ELECTRICAL CONTRACTOR.

ENLARGED MECH RM ELECTRICAL PLAN

REFERENCE E2.01



SINGLE LINE DIAGRAM SCALE: NOT TO SCALE

NOTICE:

ALL WIRE SHALL BE COPPER TYPE THWN, WHERE NONMETALLIC CONDUIT IS USED A GROUND WIRE SIZED PER N.E.C. SHALL BE PROVIDED AND INSTALLED PER N.E.C. INCREASE CONDUIT SIZE AS REQUIRED BY N.E.C.

Call before you Dig Avoid cutting underground utility lines. It's costly. AVOID HITTING OVERHEAD Call POWER LINES. IT'S COSŢLY AVOID HITTING UNDERGROUND TRAFFIC SIGNAL AND STREET LIGHT SYSTEM CONDUITS IT'S COSTLY before you UnderGround 1-800-227-2600 1-702-455-7511

1-702-229-6611

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AND
CLARK COUNTY TRAFFIC OPERATIONS

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CALL BEFORE YOU CRANE

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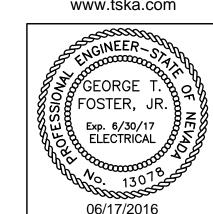
THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC 210-19(A)(1) FPN No. 4.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND ELECTRICAL SYSTEM.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.

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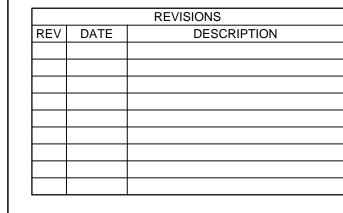
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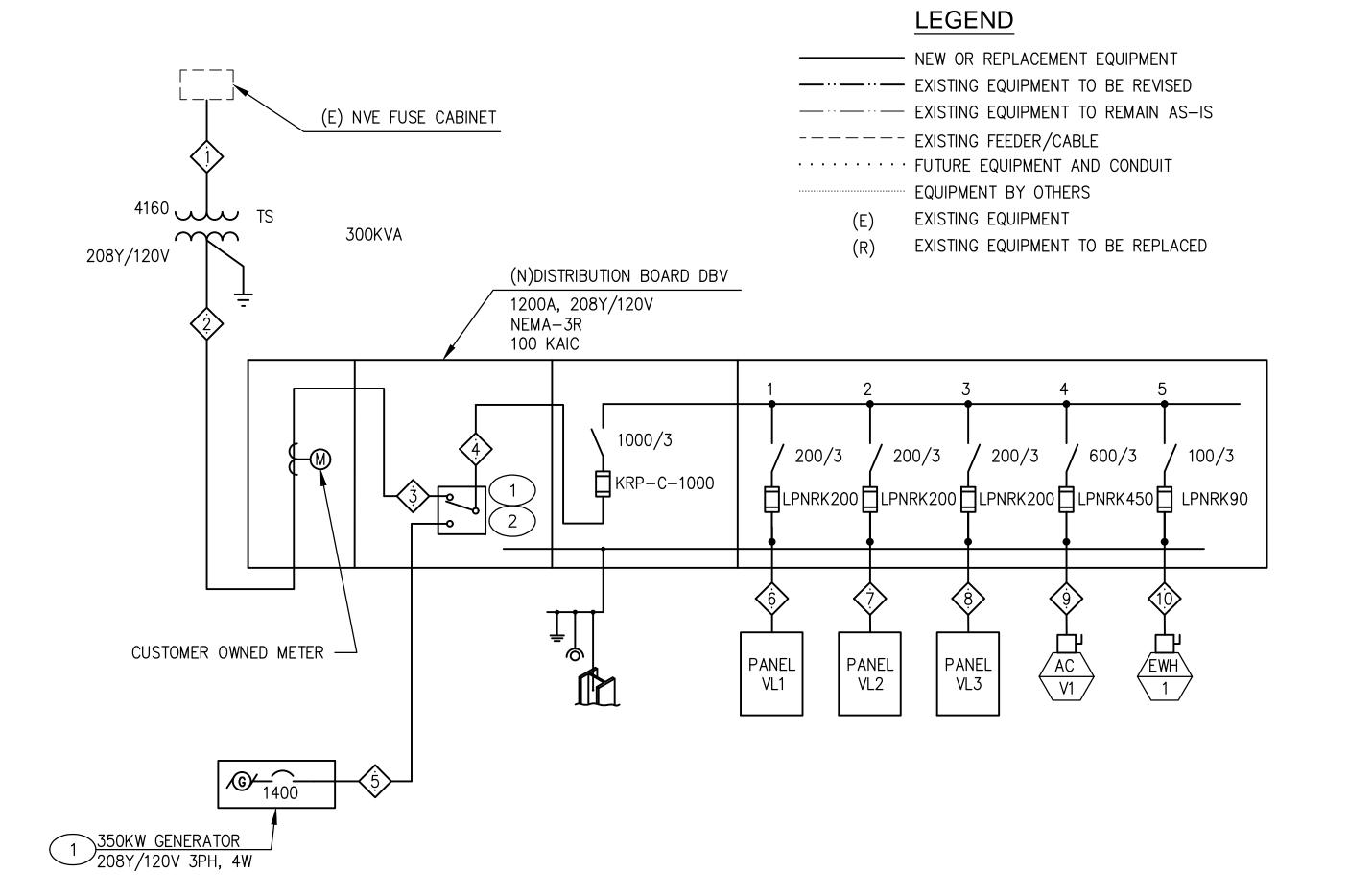
PERMIT SET



Sheet Title SINGLE LINE DIAGRAM

Date: 06/17/2016 Sheet No:

E5.01



SINGLE LINE DIAGRAM

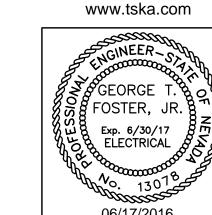
SCALE: NOT TO SCALE

KEY NOTES:

- 1 PROVIDE FORM—C CONTACT FOR EMERGENCY AND NORMAL POWER STATUS TO BAS/JACE CONNECTION TO THE CAMPUS BAS.
- 2 1600A SERVICE ENTRANCE RATED ATS.



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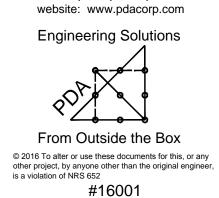
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Owner

UNIVERSITY OF NEVADA, LAS VEGAS

FEEDER SCHEDULE PROJECT NAME: UNLV VIVARIUM 16-Jun-16 FEEDER SCHEDULE NOTES: 1. SIZING INFORMATION BASED ON THHN / THWN CONDUCTORS IN METALLIC CONDUIT UNLESS OTHERWISE NOTED, PER 2011 N.E.C. 2. CONDUCTOR SIZES BASED ON 75°C. REQUIREMENTS. ALL TERMINATIONS SHALL BE 75°C RATED. NUMBER INFORMATION NUMBER NEUTRAL MATERIAL VOLTS % PHASE NEUTRAL (CU OR AL DROP DROP QUANTITY SIZE QUANTITY SIZE REMARKS NEUTRAL GROUND MATERIAL SIZE QUANTITY 1 UTILITY T1 N/A CU 0.68 0.02 3 #1/0 2 T1 METER 100% CU 0.55 0.26 3 400 kcmil 1 N/A #6 NON-METALLIC 4" 1 BY UTILITY 3 METER ATS 100% CU 0.28 0.13 3 1200 A 1 1200 A 50% 4 ATS DVB 100% CU 0.28 0.13 3 1200 A 1 1200 A 50% BUS DUCT ----- 1 5 GEN ATS 100% CU 0.26 0.12 3 350 kcmil 1 350 kcmil #3/0 NON-METALLIC 3" 4 PARALLEL FEEDERS 6 DBV VL1 100% CU 0.84 0.40 3 #3/0 1 #3/0 #6 NON-METALLIC 2" 7 DBV VL2 100% CU 0.84 0.40 3 #3/0 1 #3/0 #6 NON-METALLIC 2" 8 DBV VL3 100% CU 1.12 0.54 3 #3/0 1 #3/0 #6 NON-METALLIC 2" 9 DBV AC-V1 100% CU 1.46 0.70 3 250 kcmil 1 250 kcmil #2 METALLIC 2 1/2" 2 PARALLEL FEEDERS 10 DBV WH-1 N/A CU 1.89 0.91 3 #3 N/A #8 NON-METALLIC 1 1/4" 1

Project # 16001		Pro	fessional Design Associates
SHORT	CIRCUIT	ANALYSIS	REPORT
Project Name: UNLV VIVARI	UM		16 -J
BRANCH	AVAILABLE	AT	EQUIPMENT
NUMBER \square	SCA	EQUIPMENT	AIC RATING
0	94,573	UTILITY	N/A
1	32,116	DBV	65,000
2	14,170	PNL VL1	22,000
3	13,594	PNL VL2	22,000
4	13,063	PNL-VL3	22,000
5	9,542	A/C-1	10,000

NOTICE:

ALL WIRE SHALL BE COPPER TYPE THWN, WHERE NONMETALLIC CONDUIT IS USED A GROUND WIRE SIZED PER N.E.C. SHALL BE PROVIDED AND INSTALLED PER N.E.C. INCREASE CONDUIT SIZE AS REQUIRED BY N.E.C.

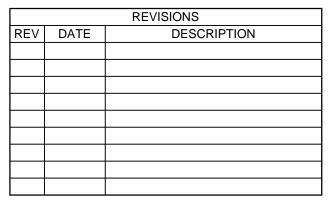
Professional Design Associates, Inc.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED VOLTAGE DROP CALCULATIONS AND ALL BRANCH CIRCUITS AND FEEDERS COMPLY WITH NEC 210-19(A)(1) FPN No. 4.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE AIC RATINGS INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND ELECTRICAL SYSTEM.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.

PERMIT SET

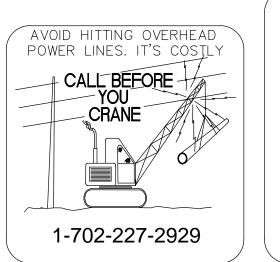


Sheet Title
SINGLE LINE DIAGRAM
AND SCHEDULES

Date: 06/17/2016

Sheet No:

E5.02



PROJECT# 16001





	Professional Design As	ssociates, li	nc.		PAN	IELE	BOA	RD:		VL3		PROJECT I	NAME:	UNLV VIVARIUM	
	VOLTS L - L :	208										PROJECT I	NUMBER:	16001	
	VOLTS L - N :	120		MLO:	225	MAIN	BUS RA	ATING:	225	AMPS		PANEL LOC	ATION:	ROOM 028	
	PHASE :	3		MCB:		GFI N	AAIN:	NO	SHUN	T TRIP :	NO	BUS MATER	RIAL:	cu	
	WIRE:	4		AIC RAT	ING:	65	ĸ					GROUND E	US:	YES	
	MOUNTING :	SURFACE			Y RATI	ED:	YES					BRANCH B		BOLT-ON	
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	VOLTS L - L :	208										PROJECT	NUMBER:	16001	
	VOLTS L - N :	120		MLO:	225	MAIN	BUS RA	ATING:	225	AMPS		PANEL LOC	CATION:	CORRIDOR	
	PHASE:	3		MCB:		GFI M	IAIN :	NO	SHUN	T TRIP :	NO	BUS MATE	RIAL:	CU	
	WIRE:	4		AIC RAT	ING:	65	K					GROUND E	BUS:	YES	
	MOUNTING:	SURFACE		FULL	Y RATE	ED:	YES					BRANCH B	RKRS:	BOLT-ON	
	ENCLOSURE:	NEMA 1		SERI	ES RATI	ED:						NEUTRAL F	RATING:	100%	
	DATE:	06/16/2016		BASIS C	F DESK	GN:	SQD-	NQOD -	20" W.	X 6.5" I	D.	POLES R	EQUIRED:	42	
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+	RECEPTS RM 007			720	20	1	11	12	1	20			1656	RPP HIGH PRESS PUMP **	
-	RECEPT REF RM 007	1200			20	1	13	14	3	20	708			R.O. TREATMENT SYSTEM**	
<u>: </u>	RECEPTS RM 008		1080		20	1	15	16				708			
<u> </u>	RECEPTS RM 009			1440	20	1	17	18					708		
	RECEPTS RM 010	1440			20	1	19	20	1	20	360			RECEPTACLES	
	RECEPTS RM 011		1080		20	1	21	22	1	20		864		R.O. RE-PRESS PUMP **	
	RECEPTS RM 012			1440	20	1	23	24	1	20			180	R.O. STORAGE TANK **	
	RECEPTS RM 012	1440			20	1	25	26	1	20	360			LUTRON PANELS RECEPT	
	RECEPTS RM 013		360		20	1	27	28	1	20		0		SPARE	_
	RECEPTS RM 014			360	20	1	29	30	1	20			0	SPARE	
-+	RECEPTS RM 015	360			20	1	31	32	1	20	0	1		SPARE	
-	RECEPTS RM 028	- 555	1440		20	1	33	34	1	20		0	1	SPARE	_
-	RECEPTS 026		1440	360	20	1	35	36	1	20		 	0	SPARE	_
	RECEPTS 026	200		360	20	+ -	37	38	3					SPARE	_
-+	SPARE	360			#	1	H I		3	20	0	 		SPARE	
-			0	_	20	1	39	40				0			_
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	SUB-FEED SUB-TOTAL:	S 5880	5760	4820			1				3728	2878	3480	SUB-FEED SUB-TOTALS	_
	CONNECTED VA - PHASE A: CONNECTED VA - PHASE B: CONNECTED VA - PHASE C:		9608 8638 8300			CONN	ECTED	AMPS - I AMPS - I AMPS - I	PHASE	B:	80.1 72.0 69.2	CONNECT NEC DIVER	RSITY KVA: NND KVA:	26.5 23.7 28.5 RE CAPACITY)	
	TOTAL CONNECTED VA:		26546			MAX. C	ONN. P	HASE A	MPS =	"A" @	80.1	NEC DEMA	AND AMPS:	79.2 RE CAPACITY)	
	GENERAL NOTES: * BRANCH CIRCUIT BREAKER: * ALL CIRCUIT BREAKERS FEE ** PROVIDE GFCI CIRCUIT BREA	EDING REFR												MORE THAN 10% UNBALANCED ERROR CODES: 0	
	N.E.C.	DEMA	AND		UL/			F (NEL	-	VL2	=	(
1	CONNECTED RECEPTACLE			15660						_	00% + BAL	ANCE @	50%		
	CONNECTED EQUIPMENT L			2070				OAD D		_		- 😅	100%		
2			ND.		VA.		IEC 220-			CHEN U	WITS @		100%		′′
2 3	CONNECTED KITCHEN FOL		10		· VA			,			.OAD @		100%		
2 3 4	CONNECTED HEATING LOA	1 1			· VA · VA						_		100%		
2 3 4 5	CONNECTED HEATING LOAD			U							OAD @	@			
2 3 4 5	CONNECTED HEATING LOAD	A D		^	· VA	HEAI					T STRIPS	w	100%		1
2 3 4 5 7	CONNECTED HEATING LOAD CONNECTED HEAT PUMP L	AD LOAD				DEC .	一 () () ()		U	ELEVAT	$\cup R \leq (0)$		100%	_	-
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1 2 3 4 5 6 7 1 2 3 4	CONNECTED HEATING LOAD CONNECTED COOLING LOAD CONNECTED HEAT PUMP LOAD CONNECTED ELEVATOR LOAD CONNECTED MISC. MECHAN CONNECTED HOTEL GUES	AD LOAD DAD NICAL LOAD T ROOM LO		0 8816 0	VA VA	MISC. HOTEL NON-C	MECHA GUES COINCID	NICAL L	oad (viloai load i	D) D PER 1 (NON-AD	NEC 220-42	2		= 88	(
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2 3 4 5 6 7 1 2	CONNECTED HEATING LOAD CONNECTED COOLING LOAD CONNECTED HEAT PUMP LOAD CONNECTED ELEVATOR LOAD CONNECTED MISC. MECHAN CONNECTED HOTEL GUES CONNECTED NON-COINCIDE	AD LOAD DAD NICAL LOAD T ROOM LO ENTAL LOAD 4968		0 8816 0	VA VA VA	MISC. HOTEL NON-C VA OF	MECHA GUES COINCID LARGI	NICAL L T ROOM ENTAL EST MO	OAD @ // LOAI LOAD TOR @	D PER 1 (NON-AD	NEC 220-42 PDITIVE)		100% 25%	= 88 = 12 = 35	24:

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	PHASE:	3		MCB:	220	GFI M				TRIP:	NO	BUS MATER		CU	
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;	LOAD SERVED	"A"	"B"	"C"	BREA	AKER	BRE	AKER	BRE	AKER	"A"	"B"	"C"	LOAD SERVED	
j		VA	VA	VA	AMP	POLE	NUN	1BER	POLE	AMP	VA	VA	VA		
	RECEPTS RM 017	1800			20	1	1	2	1	20	1080			RECEPTS RM 021 **	
	RECEPT REF RM 018		1200		20	1	3	4	1	20		1080		RECEPTS RM 021 **	
	RECEPTS RM 018			720	20	1	5	6	1	20			1080	RECEPTS RM 021 **	
_	RECEPTS RM 019 **	1080			20	1	7	8	1	20	1080			RECEPTS RM 022 **	
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_	RECEPTS RM 019 **			1080	20	1	11	12	1	20			1080	RECEPTS RM 022 **	
	RECEPTS RM 020 **	1080			20	1	13	14	1	20	360			CEILING RECEPTS 019 & 020	
\rightarrow	RECEPTS RM 020 ** RECEPTS RM 020 **		1080	4000	20	1	15 17	16	1	20		360		CEILING RECEPTS 021 & 022 SMOKE/FIRE DAMPERS	
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+	GEN HEATER		180	1000	20	2	23	24	1	20		0	765	LIGHTING	
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+	GEN CHARGER	1000	500		20	1	27	28	1	20	1065	1000		LIGHTING	
+	SPARE		300	0	20	1	29	30	1	20		1000	945	LIGHTING	
-	TL1	1344			20	1	31	32	1	20	855		340	LIGHTING	
+	TL2	1017	1344		20	1	33	34	1	20	- 555	995		LIGHTING	
1	TL3		1311	768	20	1	35	36	1	20			1000	LIGHTING	
1	TL4	1344			20	1	37	38	1		0			SPACE	
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	SUB-TOTALS CONNECTED VA - PHASE A: CONNECTED VA - PHASE B: CONNECTED VA - PHASE C:	9088	13528 11243 10018			CONN	ECTED .	AMPS - F AMPS - F AMPS - F	PHASE	B:	93.7	CONNECT NEC DIVER	SITY KVA:	34.8 30.9 58.6	
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	CONNECTED VA - PHASE A: CONNECTED VA - PHASE B: CONNECTED VA - PHASE C: TOTAL CONNECTED VA: GENERAL NOTES: * BRANCH CIRCUIT BREAKERS * ALL CIRCUIT BREAKERS FEEL ** THESE CIRCUITS SHALL BE ISC N.E.C.	SHALL BE DING REFR DLATED GRO DEMA	13528 11243 10018 34789 ARRANGEI	D AS INDIC I EQUIPMEN	ATED A IT SHAL ULA	CONNI MAX. C ABOVE. L BE ' CONNI CONNI	ECTED DECTED DEC	AMPS - F AMPS - F HASE AI NG DEV TYPE P	PHASE PHASE WPS = IATION: ER EG D R G LOA	B: C: "A" @ S WILL QUIPMEN P A D @	112.7 93.7 83.5 112.7 NOT BE AI	CONNECT NEC DIVER NEC DEMA (INCLU NEC DEMA (INCLU LOWED. ATE.	ED KVA: SITY KVA: ND KVA: DING SPAR ND AMPS: DING SPAR	34.8 30.9 58.6 E CAPACITY) 162.7 E CAPACITY) MORE THAN 10% UNBALANCED ERROR CODES: 0	
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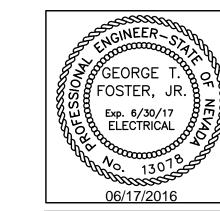
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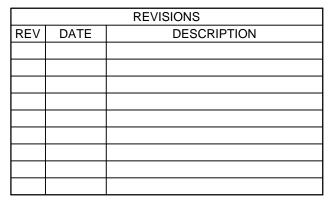
UNLV VIVARIUM

4505 SOUTH MARYLAND PARKWAY LAS VEGAS, NV 89154

Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

PERMIT SET



Sheet Title
SCHEDULES

Date: 06/17/2016 Sheet No:

PANEL INDEX

PANEL

VL2

VL3

PANEL VL1

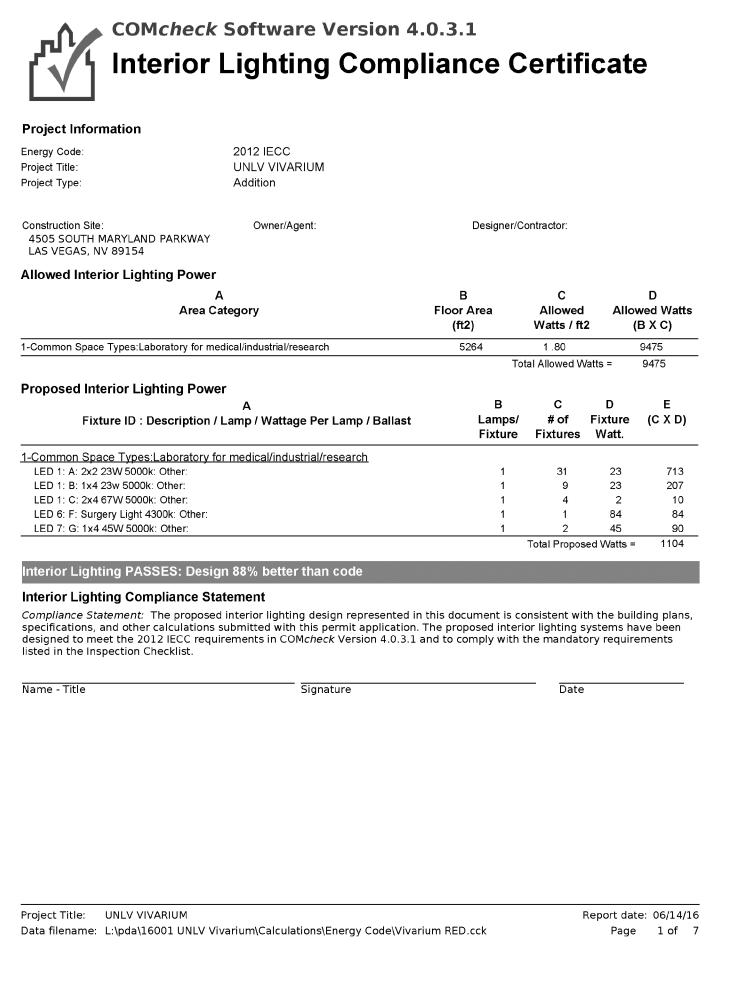
PANEL

E6.01

Energy Code: Project Title: Project Type: Exterior Lighting Zone		2012 IECC UNLV VIVARIUM Addition 3 (Other)				
Construction Site: 4505 SOUTH MARYLAN LAS VEGAS, NV 89154		Owner/Agent:		Designer/Co	ontractor:	
Allowed Exterior Lig Area/Su	phting Power A rface Category		B Quantity	C Allowed Watts / Unit	D Tradable Wattage	Allow (E
Main entry			6 ft of door	30	Yes	
				Total Tradab Total All	owed Watts (a)	
	owance equal to 75	tween tradable areas/surfa 0 watts may be applied tow r A		oth non-tradable a B	and tradable a	areas/surfa D
Fixture ID :	Description / La	amp / Wattage Per Lan	np / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.
Main entry (6 ft of door v	<u>width): Tradable '</u>	<u>Wattage</u>				
LED 1: D: Other: LED 2: E: Other:				1	6 1	26 0
					dable Propos	
Exterior Lighting TE	RD: Invalid fixt	ure wattage				

Data filename: L:\pda\16001 UNLV Vivarium\Calculations\Energy Code\Vivarium RED.cck

Project Title: UNLV VIVARIUM



PROJECT	NUMBER	. 16	001						Professional Design Associates, Inc.
I ROULE I	HOMBEN	. 10	001			LIGH	TING FIXTU	RE SCHEDULE	Troicedionar Bedign Addorated, inc.
PROJECT NAME: UNLV VIVARIUM			RIUM		1	16-Jun-16			
FIXTURE TYPE	VOLTS	F L U O R	S S L	H I D	MOUNTING	LAMP (S)	CONTROL MEDIA (LENS, LOUVER,ETC.)	MANUFACTURER'S CATALOG NUMBER	DESCRIPTION / REMARKS
Α	120 277		X		REC	23 W RED LED 45 W 5000K LED	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-22-23R/45L-50K8-DCC-DV-5F-2H-SYM	SEALED AIR-TIGHT FIXTURE WITH OVELAPPING DOOR IP65 RATED 630nm RED LED FOR VIVARIUM ENVIRONMENT LUTRON "H" SERIES DRIVER 2 X 2 RECESSED
В	120 277		х		REC	23 W RED LED 45 W 5000K LED	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-14-23R/45L-50K8-DCC-DV-5F-2H-SYM	SEALED AIR-TIGHT FIXTURE WITH OVELAPPING DOOR IP65 RATED 630nm RED LED FOR VIVARIUM ENVIRONMENT LUTRON "H" SERIES DRIVER 1 X 4 RECESSED
с	120 277		х		REC	67 W LED 5000K	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-24-67L50K-DCC-DV-5F-2H-SYM	SEALED AIR-TIGHT FIXTURE WITH OVERLAPPING DOOR IP65 RATED 2 X 4 RECESSED
D	120 277		х		WALL	26 W LED 5000K	IMPACT RESISTANT TEMPERED GLASS	EATON XTOR3A	
E	120 277		х		REC	45 LED		EATON - PORTFOLIO LD6A30D010TE ERW6A30840 6LW1LI	6 INCH RECESSED DOWNLIGHT WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM
F	120 277		x		SURGERY LIGHT	84W LED		BURTON LUXO MEDICAL PRODUCTS	
G	120 277				SURFACE	45W LED 5000K		SIMPLE SEAL CSESO14-45L50K-DCC-1-DV-2F-2H-SYM	SEALED AIR TIGHT FIXTURE 1X4 SURFACE
х	120 277		X		CEILING	4.6W LED	RED LETTER WITH WHITE BACKGROUND	EATON EEX-7-1/2-R	SELF POWERED NICKEL CAD BATTERY

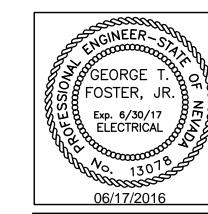
Report date: 06/14/16

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ROJECT #:	16001							Profes	sional Design Associates, Inc.
			TRA	ANSFOR	RMER S	CHEDU	ΙF		
ROJECT NAME:	UNLV VIVARIU	M	110		····	0 111 D 0			16-Jun-16
TRANSFORMER DESIGNATION	KVA RATING	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MATERIAL (WINDINGS)	DEGREE C TEMP. RISE	MOUNTING METHOD	ENCLOSURE TYPE	GROUND SIZE NEC 250	REMARKS
TL1	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	
TL2	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	
TL3	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	
TL4	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	
TL5	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	
TL6	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A	



303 South Water Street, Suite 230 Henderson, NV 89015 phone: 702.456.3000 fax: 702.898.6209 www.tska.com



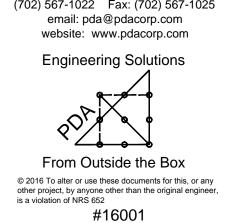
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PLEASE RECYCLE

Project

4505 SOUTH MARYLAND PARKWAY LAS VEGAS, NV 89154

Job No: 15-061

UNIVERSITY OF NEVADA, LAS VEGAS

PERMIT SET

REVISIONS							
REV	DATE	DESCRIPTION					

IECC LIGHTING REPORT AND SCHEDULES

Date: 06/17/20² Sheet No:

E6.02