

• Parks and Recreation •

JoEllen Grandy • Parks Planner Telephone: (801) 336-3926 Fax: (801) 336-3909

ADDENDUM #3

Project :	Layton City Commons Park Improvements, Project 22-05 (437 N. Wasatch Dr. – Layton, UT 84041)
From:	JoEllen Grandy, Parks Planner Layton City Parks & Recreation 465 N. Wasatch Dr. Layton, UT 84041 801.336.3926 jgrandy@laytoncity.org
Date:	June 1, 2023
Re:	Request for Information

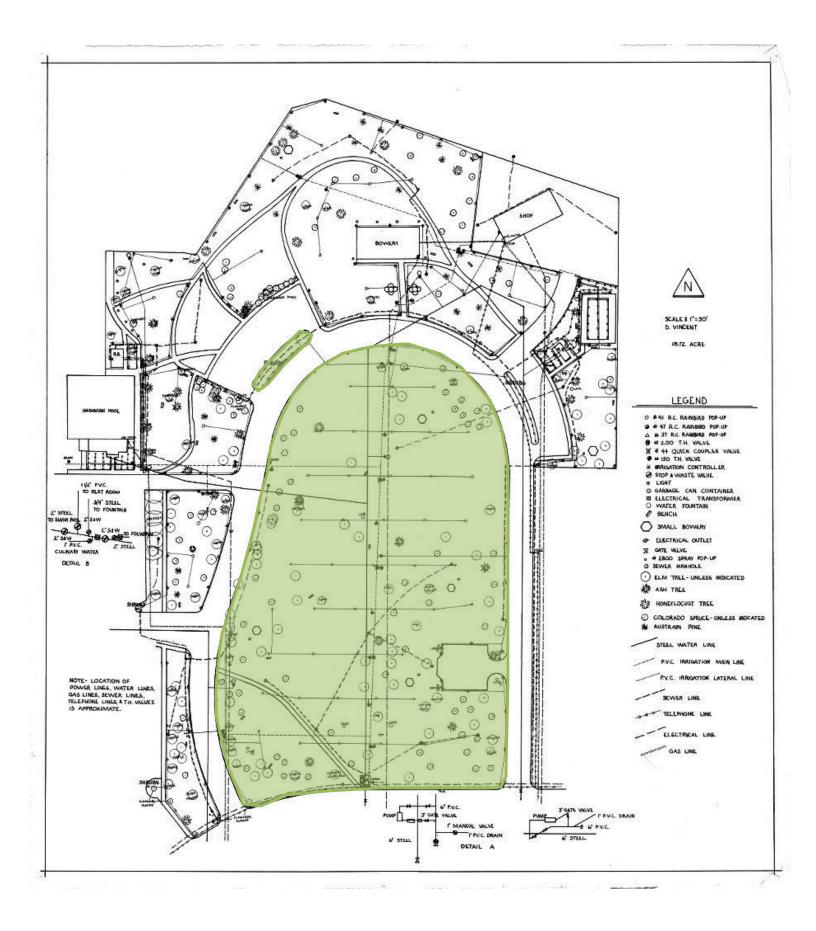
1. Please see the updated Electrical Plans for the Commons Park Improvements Project.

You will note on Sheet ES601, it is a 400A single phase system.

2. Questions regarding the irrigation plans:

a. Does the clock just run the area in Constitution Circle?

The clock runs all of the area in constitution circle plus a small island strip as shown below in green:

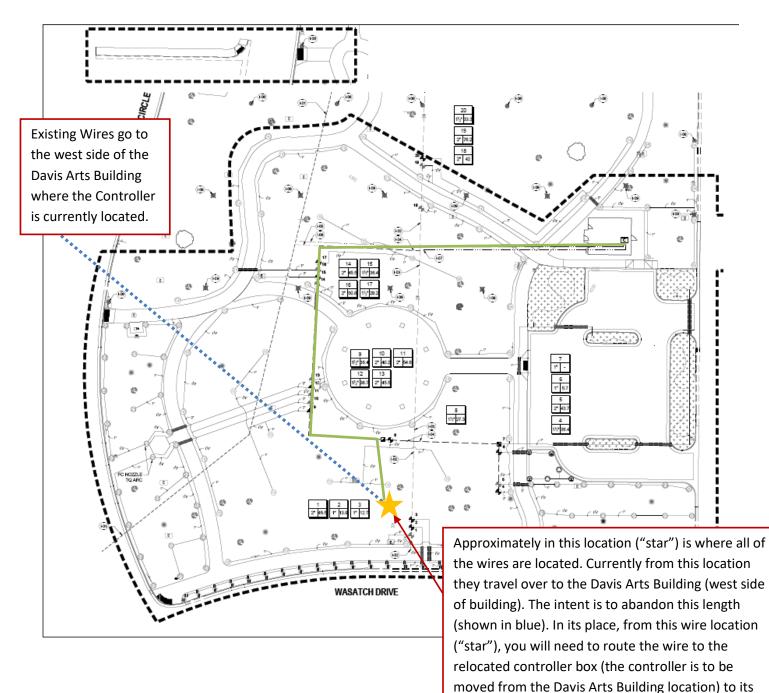


b. Can we get a better as-built showing the existing valve boxes and a valve count showing what valves will need to be hooked up to the new clock location?

Please see the attached as-built map provided with better resolution. Most of the valve boxes are located along the original main line. The rescanned map has better clarity to note where those are located. All of the valves numbered will need to be hooked up to the new clock location.

c. Can we get a detail showing how to get wire back to the new clock location? Will the wire need to be in conduit and how are they to be installed/how deep?

Please see the map below for how to get the existing wires to the new clock location. The wires are to be bundled and direct buried in the ground at 18" depth.



new location in the new restroom.

d. Can we get a parts list of what needs to be added to the existing clock?



EXISTING WEATHERTRAK ETPRO3 WINEW EXPANSION RELOCATE FROM EXISTING LOCATION JUST EAST OF THE DAVIS ARTS COUNCIL BUILDING. EXPAND 18 STATION TO 30 STATION CONTROLLER BY PROVIDING ADDITIONAL 24 STATION OUTPUT BOARD AND SUPPLEMENTAL 6-STATION KEY. WIRE TO ALL NEW AND EXISTING ZONES TO REMAIN.

The existing controller is to be re-used. The station is to be expanded by providing an additional 24 station output board and supplemental 6-station key. Please reach out to Weathertrak for any additional details desired.



DEFERRED SUBMITTALS

Delegated Deferred Design Submittals to be provided by Contractor

OVERCURRENT PROTECTIVE DEVICE STUDY AND ARC-FLASH STUDY REPORT & LABELING.

Provide the following items listed below and comply with additional requirements as provided. See specifications.

- 1. Coordination-study input data, including completed computer p
- 2. Study and equipment evaluation reports. 3. Overcurrent protective device coordination study report; signed
- professional engineer. Overcurrent protection shall coordinate to to 0.1 seconds on emergency power.
- 4. Arc-flash study input data, including completed computer progr 5. Arc-flash study report; signed, dated, and sealed by a qualified
- a. Submit study report for action prior to receiving final approval equipment submittals. If formal completion of studies will cause equipment manufacturing, obtain approval from Architect for submittal of sufficient study data to ensure that the selection associated characteristics is satisfactory.

SEISMIC CONTROL FOR ELECTRICAL SYSTEMS

- Provide the following items listed below and comply with addition specifications.
- A. Product Data: For each type of product.
- 1. Illustrate and indicate style, material, strength, fastening provis size of seismic-restraint component used. a. Tabulate types and sizes of seismic restraints, complete with strength in tension and shear as evaluated by an agency accep jurisdiction.
- b. Annotate to indicate application of each product submitted a requirements. B. Delegated-Design Submittal: For each seismic-restraint devic
- 1. Include design calculations and details for selecting seismic re performance requirements, design criteria, and analysis data signation
- professional engineer responsible for their preparation. 2. Design Calculations: Calculate static and dynamic loading cau operation, and seismic and wind forces required to select seism designing vibration isolation bases.
- a. Coordinate design calculations with wind load calculations re mounted outdoors. Comply with requirements in other Sections outdoors.
- 3. Seismic-Restraint Details: a. Design Analysis: To support selection and arrangement of s
- calculations of combined tensile and shear loads.
- b. Details: Indicate fabrication and arrangement. Detail attachm restrained items and to the structure. Show attachment location Identify components, list their strengths, and indicate directions
- transmitted to the structure during seismic events. Indicate asso isolation devices. c. Coordinate seismic-restraint and vibration isolation details w
- required for equipment mounted outdoors. Comply with requirer equipment mounted outdoors. d. Preapproval and Evaluation Documentation: By an agency acceptable to authorities
- having jurisdiction, showing maximum ratings of restraint items and the basis for approval (tests or calculations).
- C. Deferred Submittals for the Authority Having Jurisdiction (AHJ) shall be as required by IBC 106.3.4.2.
- . Deferred submittals of seismic restraint of nonstructural components must be submitted to the AHJ a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is deficient additional time may become necessary.
- 2. No deferred submittal element shall be installed until AHJ approval has been received.
- 3. If seismic restraints of nonstructural components are installed prior to receiving AHJ approval they shall not be covered or concealed until plan review and inspection approval. Further, installers are proceeding at their own risk until plan review and inspection approval occurs.
- 4. Deferred Submittals are required for: a. Electrical distribution equipment (switchboards, panelboards, transformers, ATS, MCC's
- b. Generators, batteries, UPS.
- c. Conduit racks.
- d. Cable trays. e. Lighting fixtures.
- f. Control Panels

GENERAL LABELING SCHEME

FIRST DIGIT - BUILDING LEVEL (1 OR 2) SECOND DIGIT - PANEL TYPE

- M MECHANICAL (120/208/277/380/480V)
- L or LCP LIGHTING (120/208/277/480V)
- P PLUG LOADS (120/208V) G - GENERAL LOADS (120/280V
- E EMERGENCY (277/480V)
- S STANDBY (SPECIFIED ON PANEL)
- U UPS (SPECIFIED ON PANEL)

THIRD DIGIT - BUILDING AREA (A, B, C, D, ECT.) FOURTH DIGIT - SEQUENCE # (1,2,3...)

program input data sheets.
ed, dated, and sealed by a qualified o 0.3 seconds on normal power and
gram input data sheets. ed professional engineer. al of the distribution se delay in or preliminary n of devices and
nal requirements as provided. See
vision, and finish for each type and
ith report numbers and rated ptable to authorities having
and compliance with
ce. restraints complying with signed and sealed by the qualified
aused by equipment weight, mic and wind restraints and for
required for equipment s for equipment mounted
seismic restraints. Include
ments of restraints to the ons, methods, and spacings. s and values of forces sociation with vibration
with wind-restraint details ements in other Sections for
acceptable to sutherities

ABBREVIATIONS

	ABBREV	<u>IAT</u>
	NOTE: ALL ABBREVIAT	-
1P 1PH	SINGLE POLE SINGLE-PHASE	I/O IG
1WAY 2/C	ONE-WAY TWO-CONDUCTOR	IMC
2WAY 3/C	TWO-WAY THREE-CONDUCTOR	IN/IS IR
3WAY 4OUT		J-BOX
	OUTLET	kVA
	FOUR-POLE DOUBLE THROW FOUR-POLE SINGLE THROW	kVAR
4W 4WAY	FOUR-WIRE FOUR-WAY	kW kWh
	ABOVE COUNTER ARMORED CABLE	LED LFMC
ADA	AMERICANS WITH DISABILITIES ACT	LFNC
ADJ AFF	ADJACENT ABOVE FINISHED FLOOR	LPS
AFG AIC	ABOVE FINISHED GRADE AMPERE INTERRUPTING	LRA LTG
ALUM	CAPACITY ALUMINUM	LV MATV
AMP ANN	AMPERE ANNUNCIATOR	MAX
AP	ACCESS POINT (WIRELESS DATA)	MC MCA
AR ASC	AS REQUIRED AMPS SHORT CIRCUIT	MCB MCC
ATS	AUTOMATIC TRANSFER SWITCH	MCP
AV AWG	AUDIO VISUAL AMERICAN WIRE GAGE	MDP MG
BB XFMR	BUCK-BOOST TRANSFORMER	MH MIN
C CATV	CEILING MOUNTED COMMUNITY ANTENNA	MLO MOCP
СВ	TELEVISION CIRCUIT BREAKER	NA
ССВА	CUSTOM COLOR AS SELECTED BY ARCHITECT	NC NEC
CCTV	CLOSED CIRCUIT TELEVISION	NEMA
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	NFC NFPA
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	NIC
CKT CM	CIRCUIT CONSTRUCTION MANAGER	NL NO
CND CO	CONDUIT CONVENIENCE OUTLET	NTS OC
COR	CONTRACTING OFFICER'S REPRESENTATIVE	OCP
CP CT	CONTROL PANEL CURRENT TRANSFORMER	OF/CI
CTV CU	CABLE TELEVISION COPPER	OF/OI
dBA DPDT	UNIT OF SOUND LEVEL DOUBLE POLE, DOUBLE	OFP OH DF
DS	THROW DISCONNECT SWITCH	OL PB
EA EM	EACH EMERGENCY	PF PH
EMT	ELECTRICAL METALLIC TUBING	PNL PT
ENT	ELECTRIC NONMETALLIC TUBING	PTZ QTY
EPO EQUIP	EMERGENCY POWER OFF EQUIPMENT	R
EX F	EXISTING FURNITURE MOUNTED	RMC
FA FCP	FIRE ALARM FIRE ALARM CONTROL	RNC RPM
FLA	PANEL FULL LOAD AMPS	RR S/S
FMC FOB	FLEXIBLE METAL CONDUIT FREIGHT ON BOARD	SCA SCBA
FVNR	FULL VOLTAGE NON-REVERSING	SF
FVR G	FULL VOLTAGE REVERSING GROUND	SFBA
GEN GFCI	GENERATOR GROUND FAULT	SPDT
GFP	INTERRUPTER GROUND FAULT	SPEC SPST
HD	PROTECTION HEAVY DUTY	ST
HID HOA	HIGH INTENSITY DISCHARGE	SWBD SWGR
HP	HORSE POWER HIGH POWER FACTOR	TL TP
HPS	HIGH PRESSURE SODIUM HIGH VOLTAGE	TP TTB
HZ	HERTZ	TV
		UF
		UGND UPS
		V VA
		VA VFC/V D
1		

ATI	ONS
ONS MAY	NOT BE USED.
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR J-BOX	INFRARED JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kvar	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh LED	KILOWATT HOUR
	LIQUID TIGHT FLEXIBLE
	METAL CONDUIT LIQUID TIGHT FLEXIBLE
LFNC	NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA LTG	LOCKED ROTOR AMPS
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	
MCA MCB	MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH MIN	MANHOLE MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL
	MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL NO	NIGHT LIGHT NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/
OF/OI	CONTRACTOR INSTALLED OWNER FURNISHED/ OWNER
	INSTALLED
OFP OH DR	OBTAIN FROM PLANS OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	
PF PH	POWER FACTOR PHASE
PNL	PANEL
PT PTZ	POTENTIAL TRANSFORMER PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP RMC	REFLECTED CEILING PLAN RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR S/S	REMOVE AND RELOCATE START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPDT	SINGLE POLE, DOUBLE
SPEC	THROW SPECIFICATION
SPST	SINGLE POLE, SINGLE
ST	THROW SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL TP	TWIST LOCK TELEPHONE POLE
TP	TWISTED PAIR
ТТВ	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UF	UNDERFLOOR
UGND UPS	UNDERGROUND UNINTERRUPTIBLE POWER
_	SUPPLY
V VA	VOLTS VOLT AMPERE
VA VFC/VF	VARIABLE FREQUENCY
D W/	MOTOR CONTROLLER
W/O	WITH WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESEN NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS (IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTI DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHED "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REF LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZE "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY TH "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICA REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBIL STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DEL PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INS AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS A INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, EREC ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURIN CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENG CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SU SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRU INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OF INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATION ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USI ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIA THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO A WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA SYSTEMS, ETC ...

NOTE TO CONTRACTORS: THIS SHEET SET IS CONTRACTUALLY REQUIRED TO BE PRINTED IN COLOR. THERE ARE DIFFERENTIATING FEATURES THAT ARE DESIGNATED THROUGHOUT BY THEIR COLOR. FAILURE TO PRINT THIS SHEET SET IN COLOR MAY RESULT IN A MISINTERPRETATION OF THE DRAWINGS.

	GENERAL ELECTRICAL NOTES	
D. ENTATIONS, 5 OR SCHEDULES TRACT DULED", AND EFERENCE, NO ZED", "SELECTED", THE ENGINEER",	1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.	blu line designs planning landscape architecture design 8719 S. Sandy Parkway Sandy, UT 84070
ON WITH THE ATIONS, AND IBILITIES AS ELIVER TO THE NSTALLATION,	 OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM. A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT. 	p 801.679.3157 OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041
AT PROJECT SITE ECTION, PLACING, ING, PROTECTING, ., COMPLETE AND NGAGED BY THE	B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.	CONTACT: JOELLEN GRANDY PH: 801-336-3926
UB- RUCTION ACTIVITY, OPERATIONS. ONS THEY ARE SED TO DESCRIBE HAL SYSTEMS". ALL SYSTEMS ND SYSTEMS,	C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.	
TA CABLING	3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.	35 years SPECTRUM ENGINEERS 324 S. State St., Suite 400
	4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.	Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com
	5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.	© 2021 Spectrum Engineers, Inc
	6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.	
	7 TAKE OFF QUANTITIES SHOWN IN SCHEDULE(S) ARE FOR REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OF THE DEVICES, FIXTURES, EQUIPMENT, RACEWAYS, CONDUCTORS, CABLING, ETC. SHOWN AND SPECIFIED IN THE CONTRACT DOCUMENTS INCLUDING THE EXTRA MATERIAL SPECIFIED.	
	ELECTRICAL SHEET INDEX	XX
	EE001 ELEC COVER SHEET	\triangleleft

EE001	ELEC COVER SHEET
ES101	ELECTRICAL SITE PLAN
ES102	ENLARGED ELECTRICAL SITE PLANS
ES502	SITE ELECTRICAL DETAILS
ES505	SITE JUNCTION BOX DETAILS
ES508	ELECTRICAL SITE LIGHTING DETAILS AND SCHEDULES
ES601	ONE-LINE DIAGRAM & SCHEDULES
ES602	EXTERIOR LIGHTING FIXTURE SCHEDULE



S



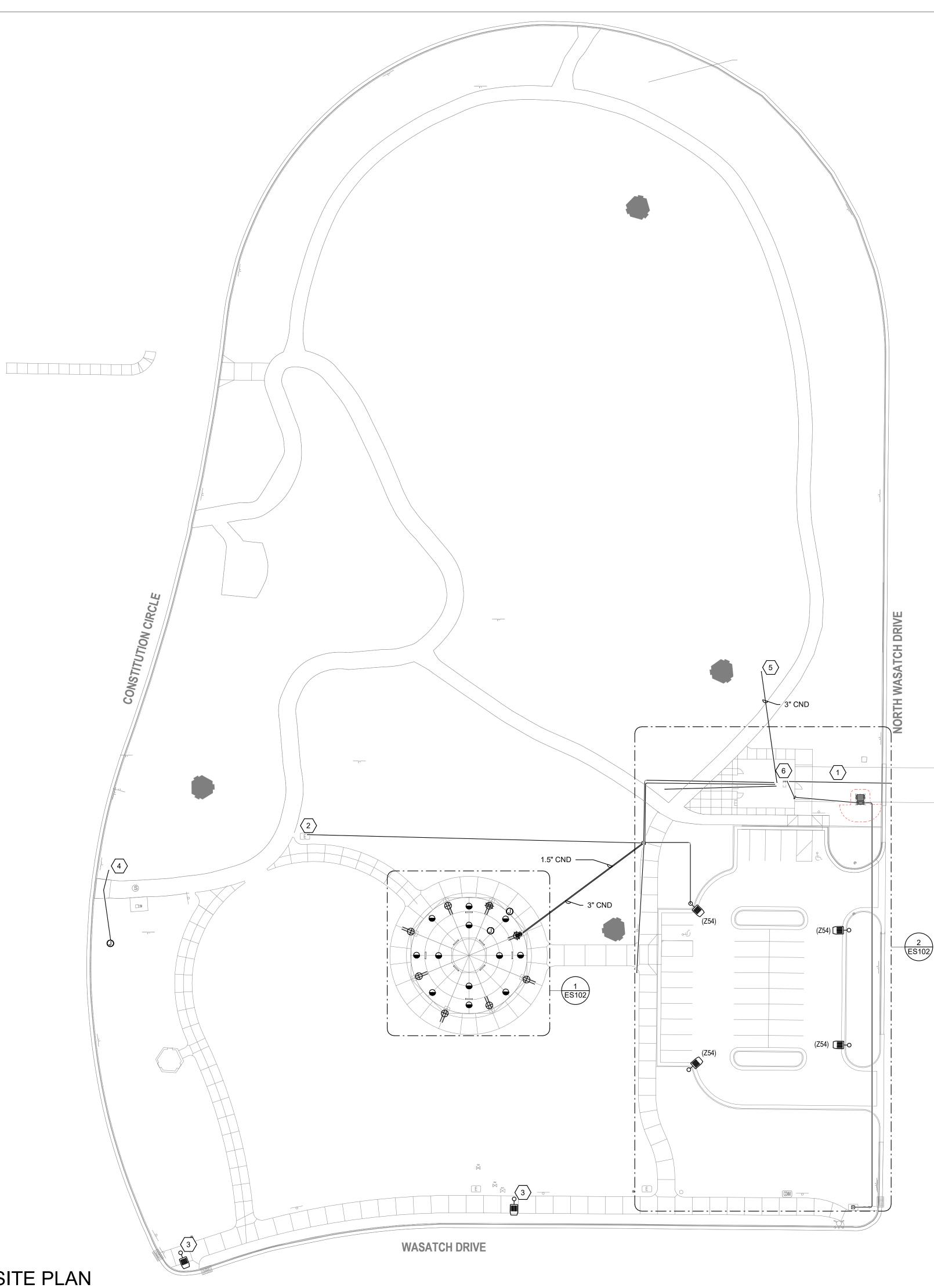
Drawn By Checked By Project No: Drawing Title

Drawing number

SET

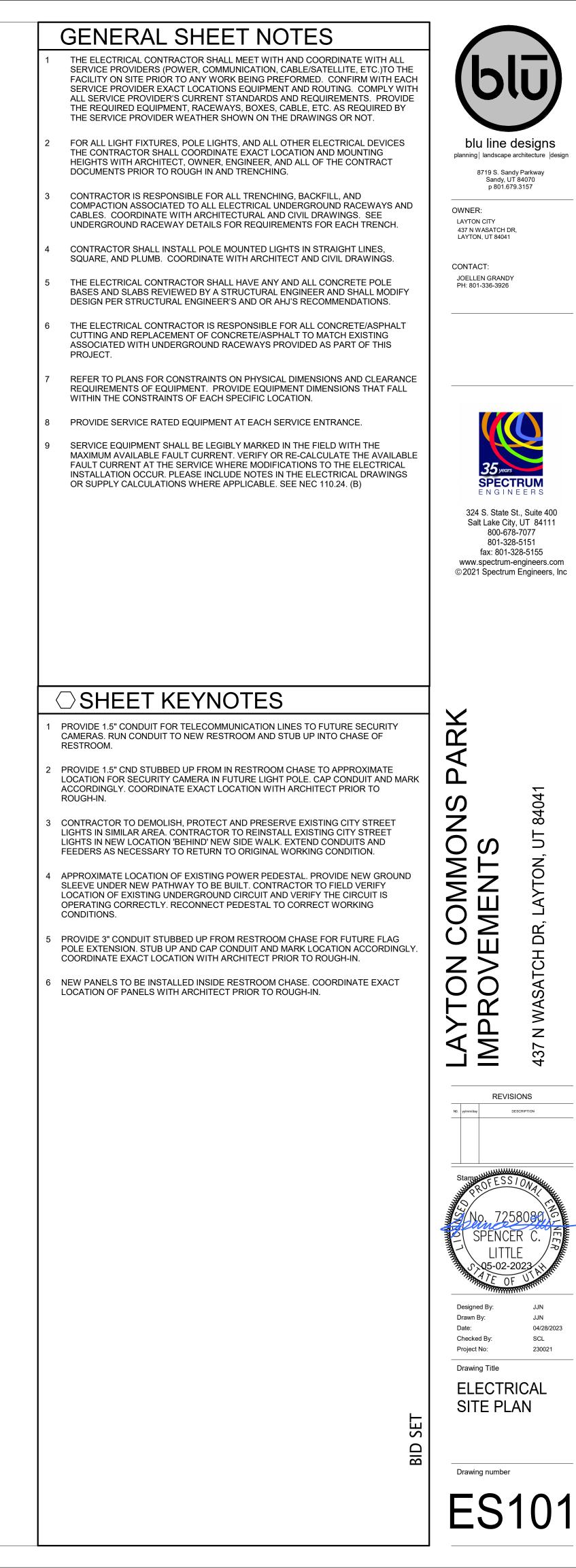
ELEC COVER SHEET

EE001

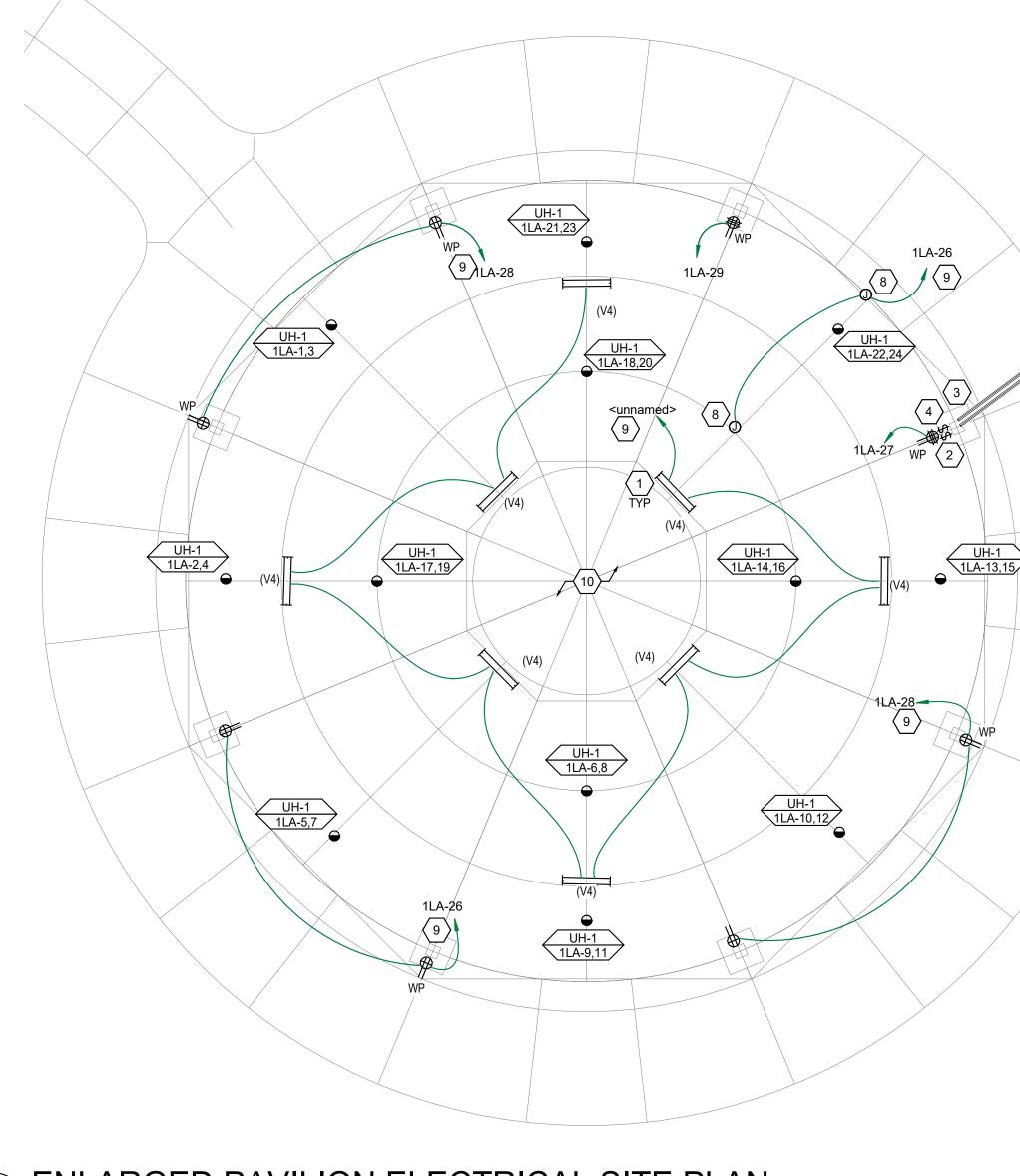




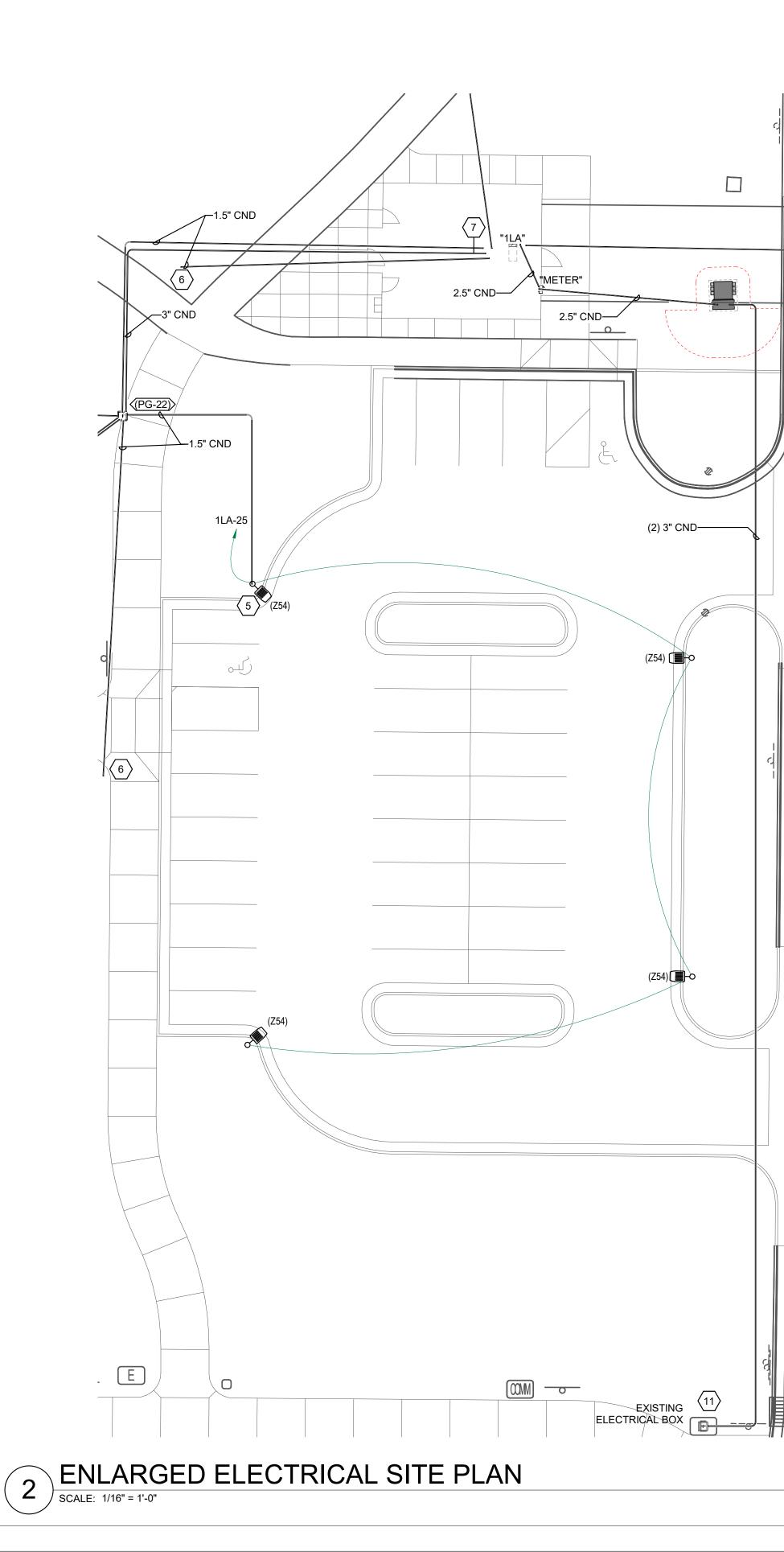
ELECTRICAL SITE PLAN SCALE: 1/32" = 1'-0"



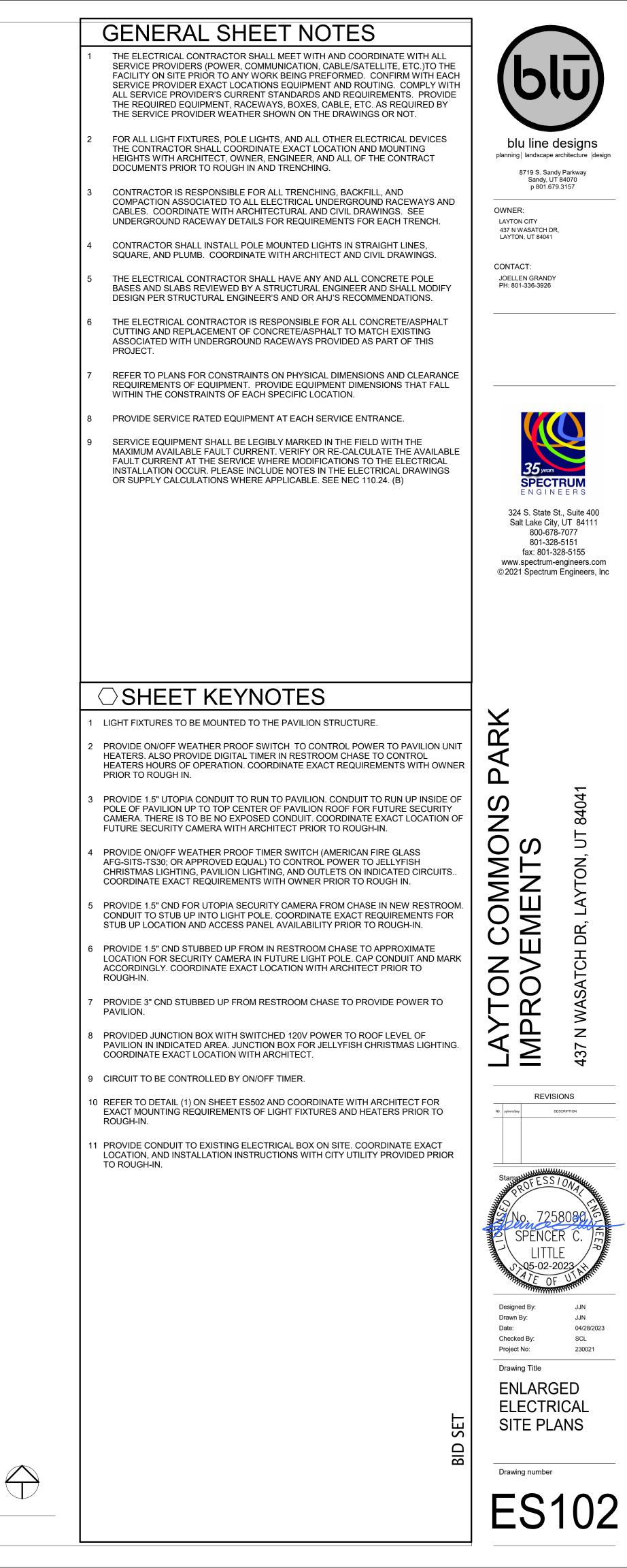


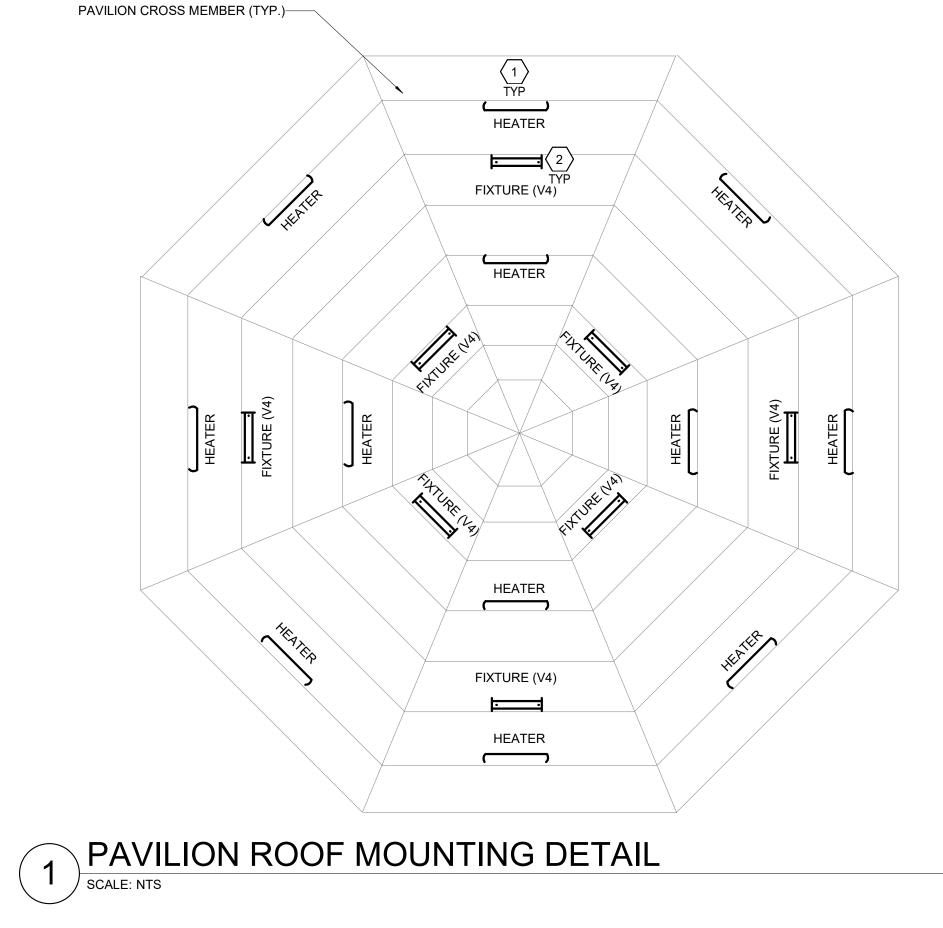


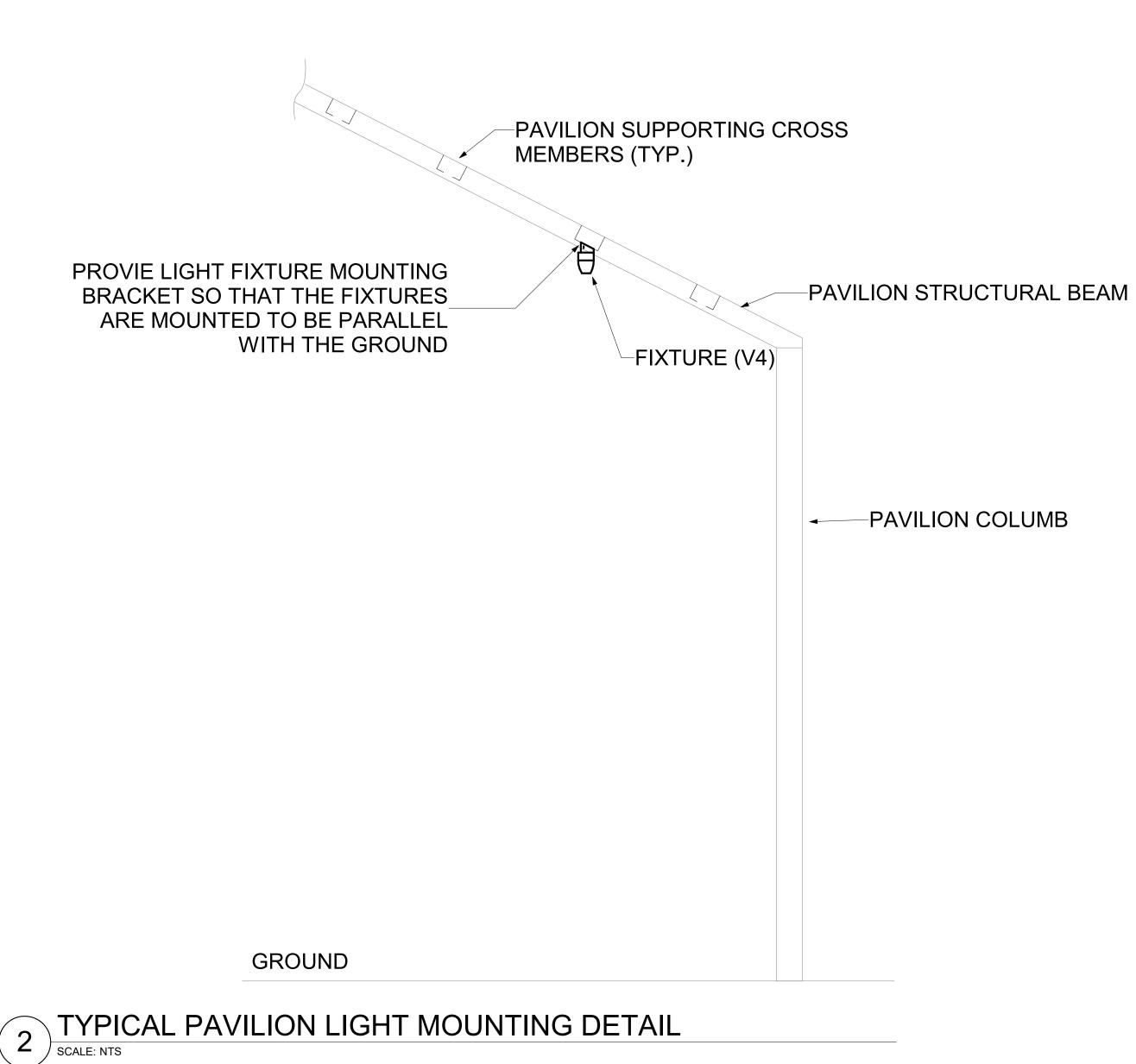
ENLARGED PAVILION ELECTRICAL SITE PLAN













8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

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CONTACT: JOELLEN GRANDY PH: 801-336-3926



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com © 2021 Spectrum Engineers, Inc





BID SET

Drawing number

ES502



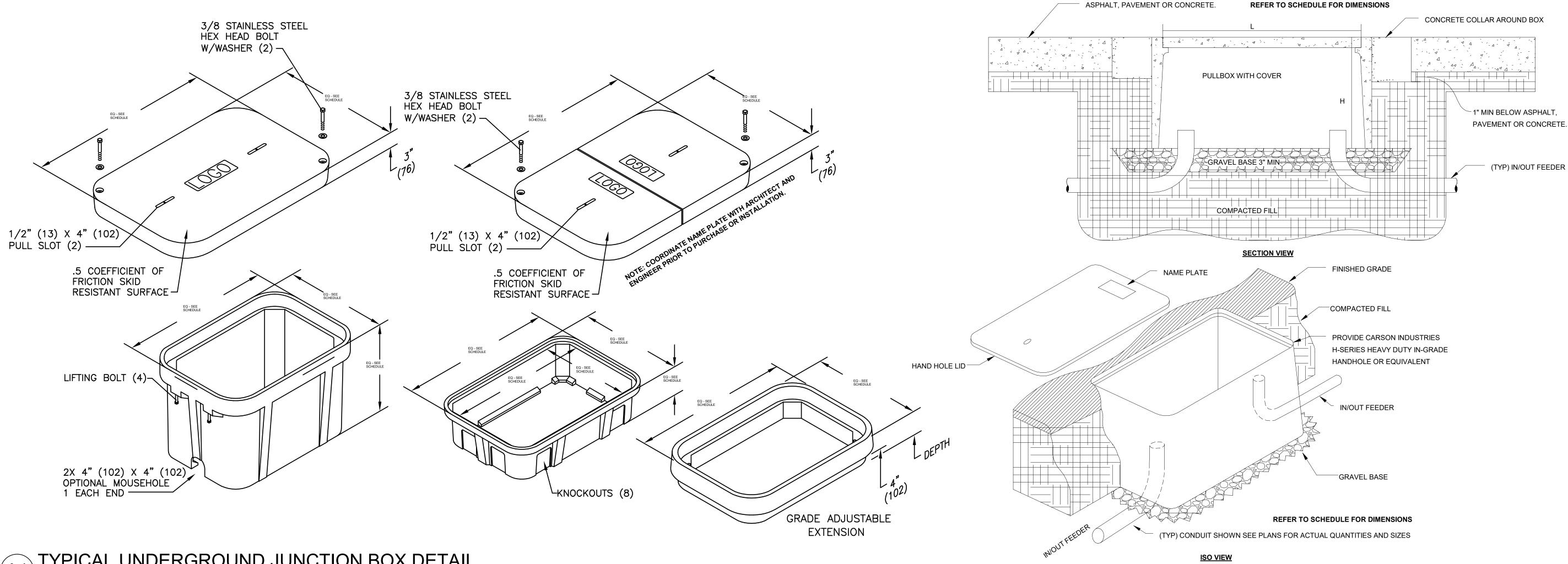
-PAVILION COLUMB

APPLICATION TIERS	<u>TYPE</u>	DESCRIPTION	BOX OPTIONS	DESCRIPTION	COVER OPTIONS	DESCRIPTION	SYMBOLS LEGEND		FIXTURE STYLES
LIGHT DUTY	VERTICAL	PEDESTRIAN TRAFFIC ONLY.	BA	BOX WITH OPEN BOTTOM	CA	BOLT DOWN COVER	PG-34 PG-22 PG-23 PG-22	STYLE	DESCRIPTION IMAGES
	VENTIONE		BB	BOX WITH MOUSE HOLES	WA	STANDARD WITH NO BOLTS		NAME	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD
TIER 5	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY	BC	DIVIDED BOX	LR	CAST IRON 6 4-1/2" X 7-1/2" LID	PG-12	PG	THE GRADE LEVEL CHANGE. USED FOR A VARIETY OF PURPOSES, SUCH AS A SPLICE BOX, PULL BOX, EQUIPMENT ENCLOSURE, OR FOR ANY APPLICATION REQUIRING EASY ACCESS TO AN UNDERGROUND SERVICE. PG BOXES ARE STACKABLE FOR INCREASED DEPTH.
HER 3	LATERAL	- FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.	BG	GASKETED BOX WITH OPEN BOTTOM	LP	CAST IRON 6"X12" LID	NOTES: 1. CONTRACTOR SHALL PROVIDE A SUBMITTAL ON ALL	PC	STRAIGHT SIDES ALLOW FOR EASY ASJUSTMENT OF BOX SHOULD THE GRADE LEVEL CHANGE. ALL PC BOXES ARE STACKABLE AND ARE AVAILABLE WITH GASKETING.
T/50 A	VERTICAL	SIDEWALK APPLICATIONS WITH A SAFTEY	DA	BOX WITH SOLID BOTTOM	LQ	CAST IRON 9"X12" LID	UNDERGROUND ENCLOSURES FOR THIS PROJECT. 2. ALL ENCLOSURES SHALL BE UL LISTED		
TIER 8	LATERAL	FACTOR FOR OCCCASIONAL ACCIDENTAL VEHICULAR TRAFFIC.	DG	GASKETED BOX WITH SOLID BOTTOM	LK	POLYMER CONCRETE 6"X9" DROP-IN LID	3. CONTRACTOR SHALL COORDINATE THE TIER RATING WITH CIVIL ENGINEER AND ARCHITECT IN THE	РХ	PX STYLES ARE EXCELLENT FOR SERVICE BOX ASSEMBLIES AND OFFER FLARED DESIGN TO PREVENT FROST HEAVE. PX BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.
TIER 15	VERTICAL	DRIEVEWAY, PARKING LOT, AND OFF ROAD	JA	FOOTED BOX	LL	POLYMER CONCRETE 7" X 13" DROP-IN LID	SUBMITTAL PROCESS. 4. CONTRACTOR SHALL ADJUST THE SIZE OF THE		THE FLARED DESIGN PREVENTS FROST HEAVE AND COVERS ARE
HER 15	LATERAL	APPLICATIONS SUBJECT TO OCCASIONAL NON-DELIBERATE VEHICULAR TRAFFIC.	EA	EXTENSION	LS	THROUGH SLOT (NO METER LID)	ENCLOSURE AS REQUIRED FOR INSTALLATION. SUBMIT AN RFI OR PROVIDE SOME OTHER DOCUMENTATION SO THAT THE DESIGN TEAM AND OWNER UNDERSTAND	РТ	INTERCHANGABLE WITH MANY PRECAST CONCRETE PARTS. PT BOXES ARE ALSO NESTABLE FOR COMPACT STORAGE.
TIER 22	VERTICAL	DRIVEWAY, PARKING LOT, AND OFF ROAD APPLICATIONS SUBJECT TO	RA	SOLID BASE EXTENSION	02	OPENS UNDER 90°	 THAT THE DESIGN TEAM AND OWNER UNDERSTAND THIS MODIFICATION PRIOR TO MOVING FORWARD WITH ADJUSTED SIZE OF ENCLOSURE. 		THESE ENCLOSURES FEATURE A 1 DEGREE FLARE FOR MAXIMUM STRENGTH. FLARED DESIGN OPTIMIZES INTERNAL VOLUME AND
HER 22	LATERAL VEHICULAR TRAFFIC.			1	00	USED WITH DROP-IN LID	5. PROVIDE BASIS OF DESIGN (BOD) ENCLOSURE OR PRE-APPROVED EQUAL.	PD	MINIMIZES FROST HEAVE.





ID



(A1) TYPICAL UNDERGROUND JUNCTION BOX DETAIL

UNDER GROUND ENCLOSURE SCHEDULE

BOX DESCRIPTION	LENGTH	WIDTH	DEPTH	ABOVE GRADE HEIGHT	BASIS OF DESIGN MANUFACTURE PART NO.	BOX OPTIONS	COVER LOGO	COVER OPTIONS	STYLE	TRAFFIC TIER NO.
UNDERGROUND ENCLOSURE; PRECAST POLYMER CONCRETE WITH REINFORCED WITH FIBER GLASS. PROVIDE WITH BOLT ON COVER.	2' - 0"	2' - 0"	1' - 6"	INSTALL FLUSH WITH GRADE (0'-0")	QUAZITE (PG2424 18)	BA - BOX WITH OPEN BOTTOM	"ELECTRICAL"	WITH TWO BOLTS AND A SINGLE LOGO	PG	TIER 15





8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

CONTACT: JOELLEN GRANDY PH: 801-336-3926



324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com © 2021 Spectrum Engineers, Inc



Designed By:

04/28/202

SCL

230021

Drawn By: Date:

Checked By:

Project No:

SET

BID

Drawing Title

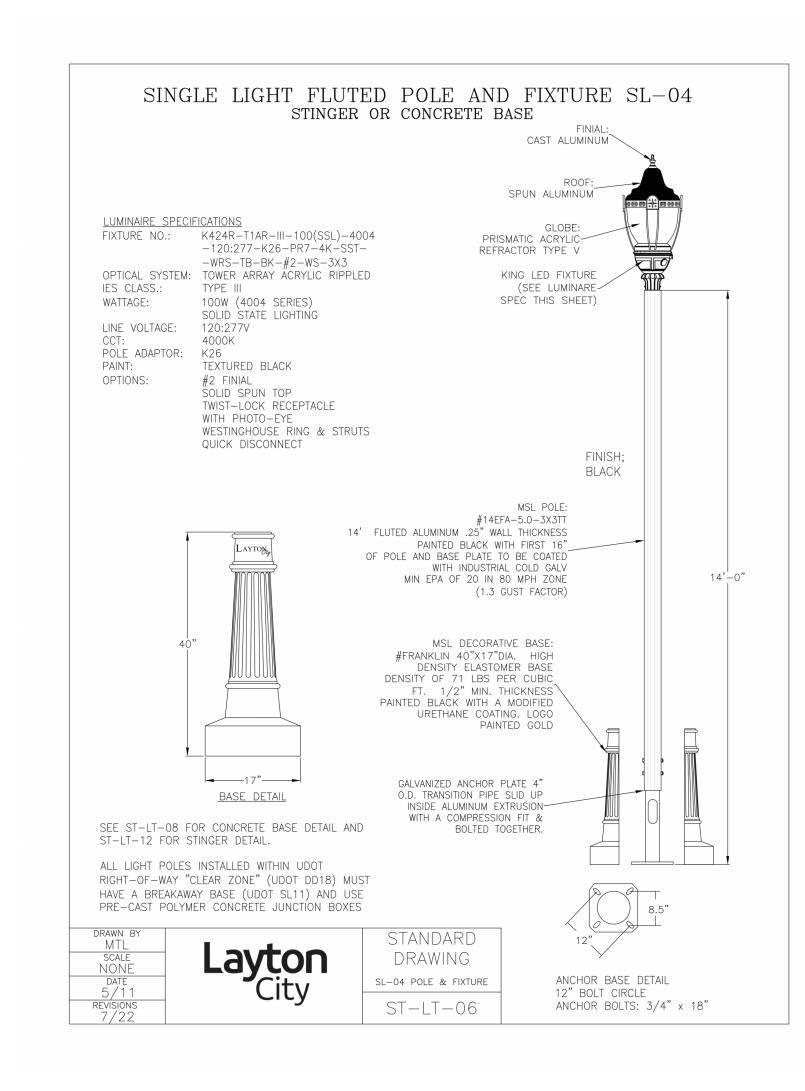
Drawing number

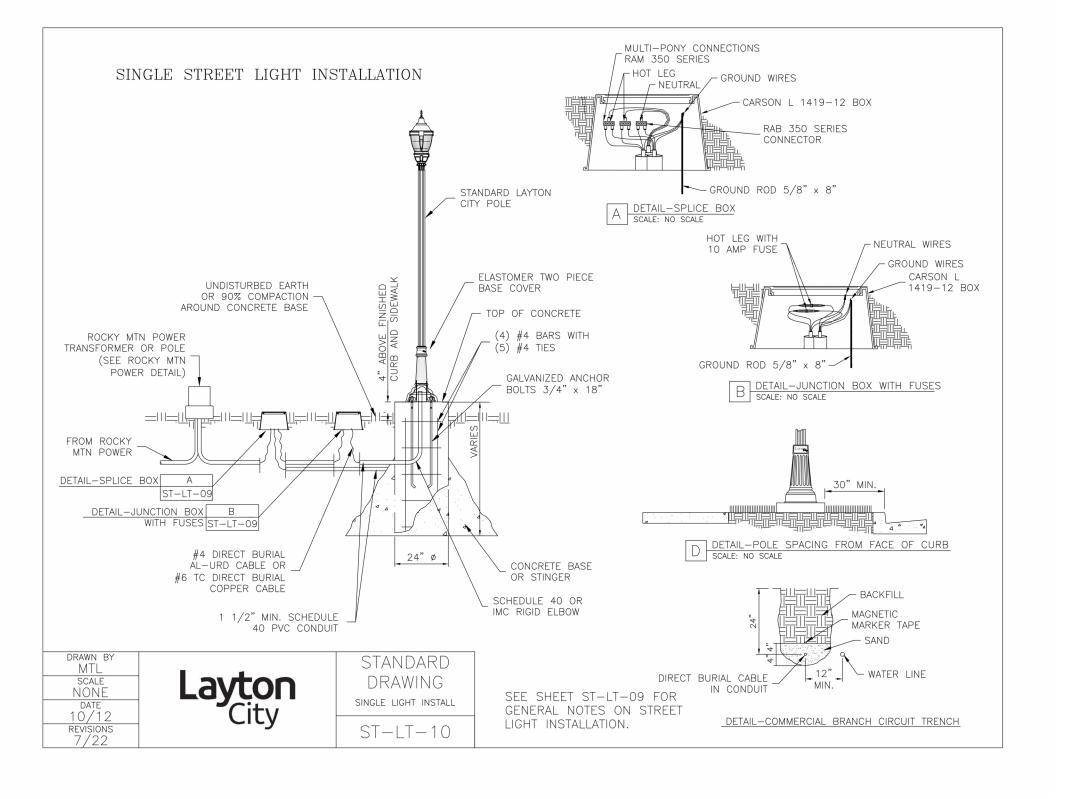
SITE JUNCTION

ES505

BOX DETAILS

A1 LAYTON CITY LIGHT POLE STANDARD







8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

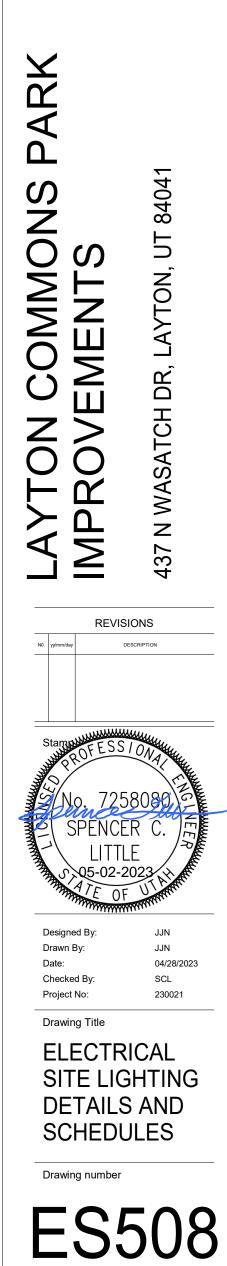
OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

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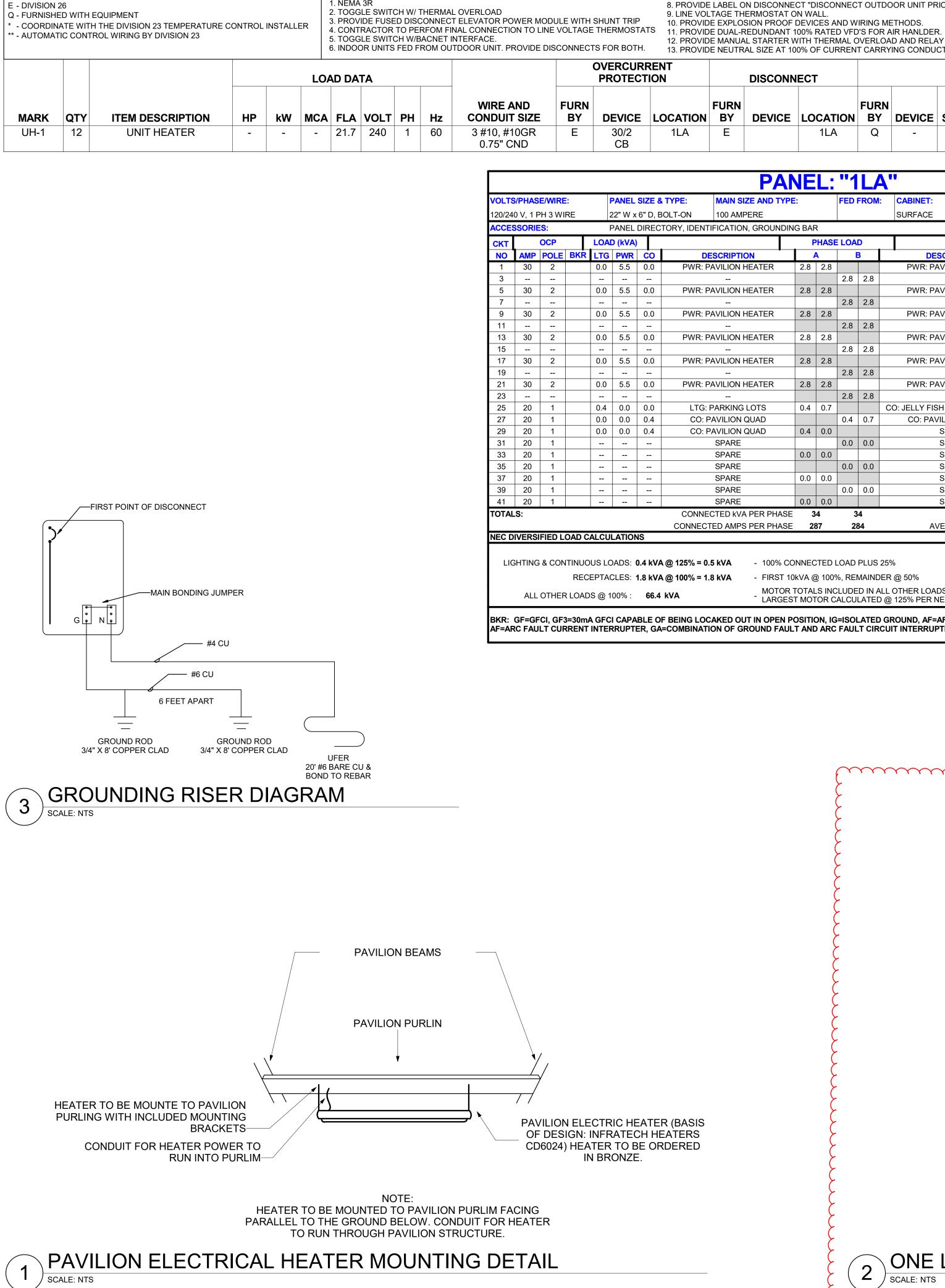
BID SET

EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULE KEY

NOTES:

1. NEMA 3R



7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY. 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."

9. LINE VOLTAGE THERMOSTAT ON WALL. 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS.

12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL. 13. PROVIDE NEUTRAL SIZE AT 100% OF CURRENT CARRYING CONDUCTOR.

GENERAL NOTES:

1. WHERE DISCONNECTS, STARTERS, OR VF ELECTRICAL CONTRACTOR, LOCATE EQUIP SUCH THAT IT IS WITHIN SITE OF THE MECH AND COMPLIES WITH N.E.C. REQUIRED CLE 2. PROVIDE A NEUTRAL AS REQUIRED BY EC SUPPLIER. CONTRACTOR SHALL COORDIN INSTALLER FOR NUETRAL REQUIREMENTS

		DISCONN	ECT										
ION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH	PILOT LAMP		NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY	NOTES	MARK
۱	E		1LA	Q	-	-	-	-	-	-	-		UH-1

PAN	IE	L:	"1	LA	."					·				
MAIN SIZE AND TYPE	:		FED I	FROM:	CABINET:	CABINET: LOCATION:			NOTES:					
100 AMPERE					SURFACE									
ENTIFICATION, GROUNDIN	g baf	2			AIC RATING:									
	P	HASE		D				LOAD	(kVA)		OCP	СКТ		
DESCRIPTION	-	4	E	3	DESCRIPT	ON	CO	PWR	LTG	BKR	POLE	AMP	NO	
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	HEATER	0.0	5.5	0.0		2	30	2	
			2.8	2.8									4	
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	HEATER	0.0	5.5	0.0		2	30	6	
			2.8	2.8									8	
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	HEATER	0.0	5.5	0.0		2	30	10	
			2.8	2.8									12	
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	0.0	5.5	0.0		2	30	14		
			2.8	2.8								16		
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	0.0	5.5	0.0		2	30	18		
			2.8	2.8									20	
R: PAVILION HEATER	2.8	2.8			PWR: PAVILION	HEATER	0.0	5.5	0.0		2	30	22	
			2.8	2.8									24	
TG: PARKING LOTS	0.4	0.7			CO: JELLY FISH LIGHT	IS & OUTLETS	0.4	0.4	0.0		1	20	26	
CO: PAVILION QUAD			0.4	0.7	CO: PAVILION C	UTLETS	0.7	0.0	0.0		1	20	28	
CO: PAVILION QUAD	0.4	0.0			SPARE						1	20	30	
SPARE			0.0	0.0	SPARE						1	20	32	
SPARE	0.0	0.0			SPARE						1	20	34	
SPARE			0.0	0.0	SPARE						1	20	36	
SPARE	0.0	0.0			SPARE						1	20	38	
SPARE			0.0	0.0	SPARE						1	20	40	
SPARE	0.0	0.0			SPARE						1	20	42	
NNECTED kVA PER PHASE	3	4	3	4		CONNEC	CTED	TOTAL	kVA =		69			
NECTED AMPS PER PHASE	28	37	28	34	AVERAGE	CONNECTED A	MPS P	ER PH/	ASE =		286			

- 100% CONNECTED LOAD PLUS 25%

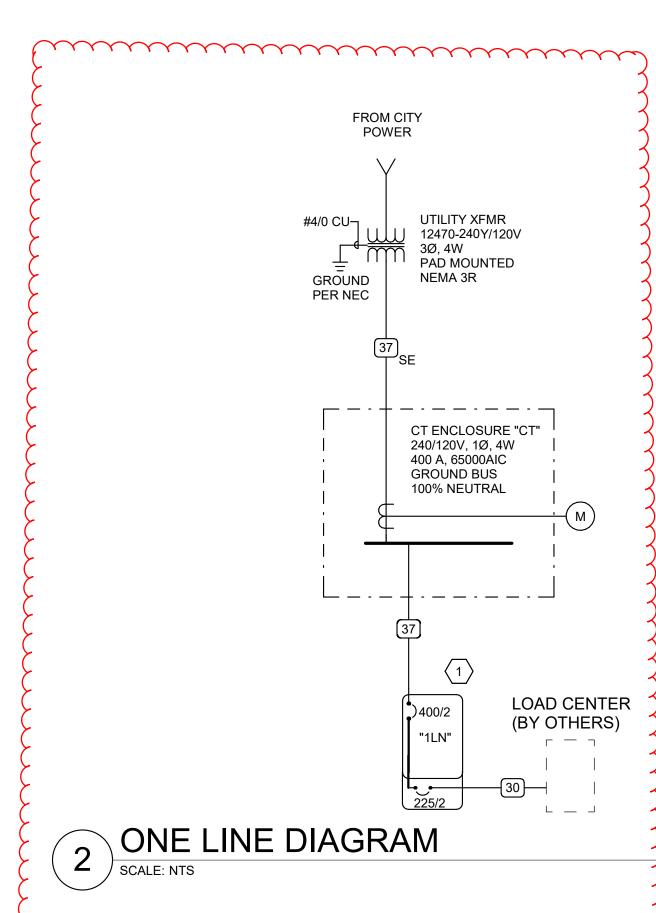
DIVERSIFIED TOTAL kVA = 69

AVERAGE AMPS PER PHASE = 286

- FIRST 10kVA @ 100%, REMAINDER @ 50% MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH

LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI



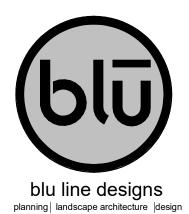
		GENERAL SHEET NOTES	
		1 CONTRACTOR IS RESPONSIBLE FOR ALL LINE VOLTAGE AS PART OF THIS PROJECT. PROVIDE LINE VOLTAGE REQUIRED TO ALL SYSTEMS PROVIDED AS PART OF THIS PROJECT. COORDINATE WITH ALL OTHER DISCIPLINES AND	
INT IN	BEING PROVIDED BY ACCESSIBLE LOCATION, EQUIPMENT IT IS SERVING,	 2 CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, 	
	ES. T MANUFACTURER AND H SUBMITTALS AND	TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.	blu line designs
SE		3 PROVIDE ELECTRICAL CONNECTION TO MOTORIZED DOORS WITH ALL POWER AND CONTROL WIRING PER MANUFACTURES WRITTEN INSTRUCTIONS. COORDINATE OPERATION OF DOORS WITH SECURITY, FIRE, AND SMOKE CONTROL SEQUENCES OF OPERATION.	planning landscape architecture design 8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157
JRE Ay	NOTES MARK UH-1	4 ELECTRICAL CONDUIT CONNECTIONS MADE TO EXPOSED JUNCTION BOXES ON UNITS SHOULD BE MADE ON THE BOTTOM OF THE BOX. INSTALLATION SHOULD COMPLY WITH LOCAL CODE REQUIREMENTS. THE INSTALLATION SHOULD BE MADE WATERTIGHT.	OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041
		5 WHERE AN EXTERNAL ELECTRICAL JUNCTION BOX IS NOT USED, WATERTIGHT FITTINGS SHOULD BE USED AT THE PANEL JOINT. IF ELECTRICAL CONDUIT PASSES THROUGH A HOLE IN THE PANEL, THAT JOINT SHOULD BE MADE WATERTIGHT.	CONTACT: JOELLEN GRANDY
	COPPER CONDUCTOR AND	6 INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC "NATIONAL ELECTRICAL CODE."	PH: 801-336-3926
	CONDUIT SCHEDULE	7 PROVIDE GFCI, HEAVY-DUTY, WEATHER RESISTANT OUTLET WITHIN 25' OF ALL EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ADDITIONAL DEVICE(S) AND CIRCUITING AS REQUIRED.	
** *-	SUBSCRIPT (NOTE 5)	8 ALL EXTERIOR OUTLETS SHALL BE CONTROLLED WITH RELAY TO TRUN POWER ON AND OFF FOR RESERVED FUNCTIONS.	
1	AMP AMPS SIZE QTY SIZE G IG/HH SE NOTES 20 - .75 2 12 12 12 8 2 20 - .75 3 12 12 12 8 2,3		
3 4 5	20 24 .75 4 12 12 12 8 2,3 30 - .75 2 10 10 10 8 2 30 - .75 3 10 10 10 8 2 30 - .75 3 10 10 10 8 2		25
6) 7)	30 32 .75 4 10 10 10 8 2 40 - 1 2 8 10 8 6 2 40 - 1 3 8 10 8 6 2		35 years SPECTRUM ENGINEERS
8) 9) 10	40 44 1 4 8 10 8 6 2 55 - 1 2 6 10 8 4 2 55 - 1 3 6 10 8 4 2		324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077
2 3 4 5 6 7	55 60 1.25 4 6 10 8 4 2 70 - 1 2 4 8 4 2 2 70 - 1.25 3 4 8 4 2 2		801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com © 2021 Spectrum Engineers, Inc
15) 16) 17)	70 76 1.25 4 4 8 4 2 2 85 - 1.25 2 3 8 3 2 2 85 - 1.25 3 3 8 3 2 2		
18) 19 20	85 92 1.25 4 3 8 3 2 2 95 - 1.25 3 2 8 2 2 2 95 104 1.50 4 2 8 2 2 2		
21) 22) 23)	130 - 1.50 3 1 6 2 2 2 130 116 1.50 4 1 6 2 2 2 150 - 2 3 1/0 6 2 1/0 2		
24) 25) 26)	150 136 2 4 1/0 6 2 1/0 2 175 - 2 3 2/0 6 2 2/0 2 175 156 2 4 2/0 6 2 2/0 2		
27) 28) 29	200 - 2 3 3/0 6 2 2/0 2 200 180 2.50 4 3/0 6 2 2/0 2 230 - 2.50 3 4/0 4 2 2/0 2		PARK
30) 31) 32)	230 208 2.50 4 4/0 4 2 2/0 2 255 - 2.50 3 250 4 1 2/0 2 255 232 2.50 4 250 4 1 2/0 2		A
33 34) 35)	310 - 3 3 350 3 1/0 3/0 2 310 280 3 4 350 3 1/0 3/0 2 380 - 3.50 3 500 3 3/0 3/0 2		S 4041
36) 37) 38)	380 344 4 4 500 3 3/0 3/0 2 400 - 2 EA 2 3 3/0 3 3/0 2 400 360 2 EA 2.50 4 3/0 3 3/0 3/0 2	 SHEET KEYNOTES PROVIDE 3" CONDUIT STUBBED UP FROM RESTROOM CHASE FOR FUTURE FLAG 	ON ¹
39 40 41	510 - 2 EA 2.50 3 250 1 4/0 3/0 2 510 464 2 EA 3 4 250 1 4/0 3/0 2 620 - 2 EA 3 3 350 1/0 4/0 3/0 2,4	POLE EXTENSION. STUB UP AND CAP CONDUIT AND MARK LOCATION ACCORDINGLY. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.	IENT LAYTON,
12 13 14	620 560 2 EA 3 4 350 1/0 4/0 3/0 2,4 760 - 2 EA 3.50 3 500 1/0 4/0 3/0 2,4 760 688 2 EA 4 4 500 1/0 4/0 3/0 2,4		
_	855 - 3 EA 3 3 300 2/0 4/0 3/0 2,4 855 768 3 EA 3 4 300 2/0 4/0 3/0 2,4 1000 - 3 EA 3.50 3 400 2/0 4/0 3/0 4		LAYTON CO IMPROVEN 437 N WASATCH DR,
19 50	1000 912 3 EA 3.50 4 400 2/0 4/0 3/0 4 1140 - 3 EA 4 3 500 3/0 4/0 3/0 4 1140 1032 3 EA 4 4 500 3/0 4/0 3/0 4		O O SATC
52 53	1240 - 4 EA 3 3 350 3/0 4/0 3/0 4 1240 1120 4 EA 3 4 350 3/0 4/0 3/0 4 1675 1520 5 EA 4 4 400 4/0 4/0 4/0 4		⊢ K K
55) 56)	2010 1824 6 EA 4 4 400 250 250 250 4 2660 2408 7 EA 4 4 500 350 350 350 4 3040 2752 8 EA 4 4 500 500 500 4		LA ^{437 I}
58 59	4180 3784 11 EA 4 4 500 500 500 4 - - 5 EA 4 - - - 6 - - 5 - - - 6 - - 5 - - - 6		REVISIONS
50	10 EA 4 6 CONDUIT AND CONDUCTOR SCHEDULE NOTES		ND. yyfmriday DESCRIPTION
11 2. F E	ONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED. ROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT REAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.		Stamouring OFESS / ON Mar
4. G	ROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS. ROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS. YMBOL SUBSCRIPTS:		2 ROFESSTON A
	"2N": INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.		SPENCER C.
	"FG" FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS. "HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR"		37,05-02-2023 H
	LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.		Designed By: JJN Drawn By: JJN
	"IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.		Date: 04/28/2023 Checked By: SCL Project No: 230021
6. F	"SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM. ACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.		Drawing Title
		SET	DIAGRAM & SCHEDULES
		BD	 Drawing number
			ES601

			1					GENERAL SHEET NOTES		
UIPMEN	E BEING PROVIDI	LOCATION,	-				1	CONTRACTOR IS RESPONSIBLE FOR ALL LINE VOLTAGE AS PART OF THIS PROJECT. PROVIDE LINE VOLTAGE REQUIRED TO ALL SYSTEMS PROVIDED AS PART OF THIS PROJECT. COORDINATE WITH ALL OTHER DISCIPLINES AND DRAWINGS.	(b	ไบิ)
CLEARAN EQUIPM	AL EQUIPMENT IT ICES. ENT MANUFACTU /ITH SUBMITTALS	RER AND					2	CONTRACTOR IS RESPONSIBLE FOR ALL DEVICES, GEAR, CABLE, CONDUCTORS, TERMINATIONS, OVERCURRENT PROTECTION DEVICES, AND HEAD END EQUIPMENT AS PART OF THIS PROJECT.	blu line	e designs
PHASI	E		-				3	PROVIDE ELECTRICAL CONNECTION TO MOTORIZED DOORS WITH ALL POWER AND CONTROL WIRING PER MANUFACTURES WRITTEN INSTRUCTIONS. COORDINATE OPERATION OF DOORS WITH SECURITY, FIRE, AND SMOKE CONTROL SEQUENCES OF OPERATION.	planning landscap 8719 S. S. Sandy,	pe architecture design andy Parkway . UT 84070 .679.3157
AILUF RELA` -		MARK UH-1	-				4	ELECTRICAL CONDUIT CONNECTIONS MADE TO EXPOSED JUNCTION BOXES ON UNITS SHOULD BE MADE ON THE BOTTOM OF THE BOX. INSTALLATION SHOULD COMPLY WITH LOCAL CODE REQUIREMENTS. THE INSTALLATION SHOULD BE MADE WATERTIGHT.	OWNER: LAYTON CITY 437 N WASATCH LAYTON, UT 8404	
							5	WHERE AN EXTERNAL ELECTRICAL JUNCTION BOX IS NOT USED, WATERTIGHT FITTINGS SHOULD BE USED AT THE PANEL JOINT. IF ELECTRICAL CONDUIT PASSES THROUGH A HOLE IN THE PANEL, THAT JOINT SHOULD BE MADE WATERTIGHT.	CONTACT: JOELLEN GRAN PH: 801-336-392	
			ONDU(T SCH			ND	6	INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC "NATIONAL ELECTRICAL CODE." PROVIDE GFCI, HEAVY-DUTY, WEATHER RESISTANT OUTLET WITHIN 25' OF ALL		
**	1	LE NUMBER	(E.0	G.) <u>5</u> IG				EQUIPMENT. FIELD VERIFY EXISTING CONDITIONS AND PROVIDE ADDITIONAL DEVICE(S) AND CIRCUITING AS REQUIRED.		
SYN	HH C	,	JCTOR (NOTE 1) SIZE G		SE	NOTES	8	ALL EXTERIOR OUTLETS SHALL BE CONTROLLED WITH RELAY TO TRUN POWER ON AND OFF FOR RESERVED FUNCTIONS.		
1 3 4 5 6 7 8 9 9 1 1 2 1 2 4 15 6 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccc} 12 & 12 \\ 12 & 12 \\ 12 & 12 \\ 10 & 10 \\ 10 & 10 \\ 10 & 10 \\ 8 & 10 \\ 8 & 10 \\ 8 & 10 \\ 8 & 10 \\ 8 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 6 & 10 \\ 8 \\ 4 & 8 \\ 4 & 8 \\ 3 & 8 \\ 3 & 8 \\ 3 & 8 \\ 3 & 8 \\ \end{array}$	12 12 10 10 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 6 6 6 6 4 4 4 2 2 2 2 2 2 2 2 2 2	2 2,3 2,3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			35 ver SPEC E N G I 324 S. State Salt Lake C 800-6 801-3 fax: 80 ⁻ www.spectrur	CTRUM N E E R S e St., Suite 400 City, UT 84111 578-7077 328-5151 1-328-5155 m-engineers.com um Engineers, Inc
13 19 20 21 22 24 25 26 27 28 29 20 21 22 24 25 26 27 28 29	85 92 95 104 130 - 130 116 130 116 150 136 150 136 175 156 200 - 200 180 230 - 230 208 255 232 310 - 380 - 380 344 400 - 2	1.25 4 1.25 3 1.50 4 1.50 3 1.50 4 2 3 2 4 2 3 2 4 2 3 2 4 2 3 2 4 2 3 2 4 2 3 2.50 4 2.50 3 2.50 4 3 3 3 4 3.50 3 4 4 2 EA 2 3	3 8 2 8 2 8 1 6 1/0 6 1/0 6 2/0 6 2/0 6 3/0 6 3/0 6 3/0 6 3/0 6 3/0 3 3/0 3 3/0 3 3/0 3 350 3 350 3 500 3 500 3 3/0 3 3/0 3	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1/0 3/0 3/0 3/0 3/0	2 2 2 1/0 1/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0 2/0 3/0 3/0 3/0 3/0 3/0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		○ SHEET KEYNOTES	ONS PARK S	UT 84041
	510 - 2 510 464 2 620 - 2 620 560 2 760 688 2 855 - 3 1000 - 3 1000 912 3 1140 1032 2 1240 - 2 2010 1824 6 2660 2408 3 3040 2752 4 4180 3784 1 - - 4	EA 2.50 3 2 EA 3 4 2 EA 3 3 2 EA 3 4 EA 3.50 3 2 EA 4 4 3 EA 3 3 3 EA 3 4 EA 3.50 3	0.0 0 250 1 250 1 350 1/0 350 1/0 500 1/0 500 1/0 500 1/0 500 1/0 300 2/0 400 2/0 400 2/0 500 3/0 500 3/0 350 3/0 350 3/0 400 4/0 400 250 500 350 500 500 500 500 500 500 500 500 500 500 500 500 - - - - - -	4/0 500 500 - -	3/0 3/0 3/0 3/0 3/0 3/0 3/0 3/0 3/0 3/0	2 2 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 6 6 6 6 6 6		PROVIDE 3" CONDUIT STUBBED UP FROM RESTROOM CHASE FOR FUTURE FLAG POLE EXTENSION. STUB UP AND CAP CONDUIT AND MARK LOCATION ACCORDINGLY. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.		437 N WASATCH DR, LAYTON,
1.		WN ARE SHOWN F		WITH MOD	IFICATIONS					
\mathbf{A}	PROVIDE EQUIPME BREAKERS ARE SIZ PROVIDE #10 NEUT	NT GROUND CONE ZED GREATER THA RALS FOR MULTIV	DUCTORS PER TABI IN AMPERE RATING VIRE BRANCH CIRC	LE 250-122 V SHOWN IN UITS SERVIN	VHEN CIRCU TABLE. NG COMPUT	IIT ERS.			Stamound FES	S I ONAL
~	SYMBOL SUBSCRIF	PTS: UDE TWO NEUTRA	L CONDUCTORS, SI	ZED AS SCH					SPENCE SPENCE	258080 F
	"FG" FULL	SIZE GROUND, SIZ	ZE EQUIPMENT GRO HE PHASE CONDUC	OUNDING CO	ONDUCTOR					TLE
$\left \right\rangle$	LOAE ACCO	S. CURRENT CAR	XIST DUE TO HIGH RYING CONDUCTOI DE THE IG/HH SIZE OR.	RS DERATE	D	2"			Designed By:	JJN
$\frac{1}{2}$	SCHE		D/ISOLATED GROUN TH THE GROUND O						Drawn By: Date: Checked By: Project No:	JJN 04/28/2023 SCL 230021
б. С.	WHIC	CH IS SIZED FOR TH SEPARATELY DERI						ID SET	Drawing Title ONE-LI DIAGR/ SCHED	AM &
										6 01

	ABBREVIATIONS															NOTES													
PURPORT PURPORT											BALLAST IS - IS - IS - RS - PS - PSMH - PULSE START METAL HALLIDE (CWA OR ELECTR PPLF - PROVIDE POWER LINE FILTER LVTM - LOW VOLTAGE TRANSFORMER (MAGNETIC) LVTE - LOW VOLTAGE TRANSFORMER (ELECTRONIC)					BL-BLACK#0A-NSL-SILVERGC-RONIC)-GOLDGO-CL-CLEARGF-PW-PAINTED WHITESGL-EA-EXTRUDED ALUMINUMHPL-S-STEELDO-GS-GALVANIZED STEELCGL-CBA-COLOR BY ARCHITECTSCBA-SCBA-STANDARD COLOR BY ARCHITECTI-FS-MEETS FEDERAL PROTECTEDII-FL-THERMALLY PROTECTEDVSQ-FL-FLUSHSA-R-REGRESS MSR-M-MITEREDSR-FC-CUTCCUFCFLFLFLFLFLFLFLFLFLFLFLFLFL-				A - ACRYLIC #THICK DA - ACRYLIC #THICK (OPAL) C - GLASS (CLEAR) O - GLASS (OPAL) F - GLASS (FROSTED) GL - SOFT GLOW LENS PL - HIGH PERFORMANCE LENS O - DROP OPAL GL - CONVEX GLASS LENS - SATIN LENS EFLECTOR AND DISTRIBUTION EFLECTOR AND DISTRIBUTION - TYPE I - TYPE II - TYPE III - TYPE V SQ - TYPE V SQUARE A - SPUN ALLUMINUM R - SEGMENTED REFLECTOR N# - NEMA BEAM WIDTH 1 THRU 7 CUTOFF CLASSIFICATION C - FULL CUTOFF O - CUTTOFF C - SEMI CUTOFF			MOUNTINGCONFIGURATIONB-BASEBA-BANNER ARMSC-CEILINGBH-BULL HORNF-FLANGEDL-2 "L" SHAPEG-GRIDDS-2 @ 180P-PENDANTPT-INLINE POST TOPPLPOLEQ-QUADR-RECESSEDSHSHEPHERDSS-SURFACESL-SINGLEW-WALLSL-SINGLET-ROUND STRAIGHTT-TRT-ROUND TAPEREDSS-SQUARE STRAIGHTST-SQUARE TAPEREDST-			 I. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. 2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. 			
			BUG RATING	LUMINAIRE BUG RATING SIZE (NOMINAL)			LAMF		S	BALLAST		FINISH			DIFFUSER		REFLECTO		R		MOUNTING				MANUF	NUFACTURER (CATALOG SERIES)			
ID	IMAGE	ТҮРЕ	BACK UP GLARE	LENGTH WIDTH	DIAMET / DEPTH APERTU	F	COLOR	ТҮРЕ	LUMENAIRE LUME	INPUT ANSI VOLTS WATT		TRIM	ОТНЕК	ТҮРЕ	FINISH CONFIGURATION	SNOILdo	DISTRIBUTION TY	FINISH	EFFICIENCY TYPE	CONFIGURATION	POLE BASE HEIG	POLE HEIGHT	WIND RATING	SNOILdO	OPTION 1		OPTION_2		OPTION 3
(V4)		STRIP LIGHT; LED		49.13" 9.26"	3.97"	-	4000K	LED	4800	0 45	SCBA	SCBA	SCBA												KENNAL (N548-P-1-45L50K-DCC-1-DV)	OR APP	PROVED EQUAL	OR APPROVE	DEQUAL
(Z54)		MODERN STYLE, LED POLE LIGHT, REFER TO LAYTON CITY DETAIL SL-04 ON SHEET ES508	J		26" 14"		4000K	LED	12000	100	SCBA	SCBA	SCBA				V		0		3' - 0"	17' - 0"			KING (K424R)	OR APP	PROVED EQUAL	OR APPROVE	D EQUAL

EXTERIOR LIGHTING FIXTURE SCHEDULE ADDDEV/IATIONS

NIOTEC



8719 S. Sandy Parkway Sandy, UT 84070 p 801.679.3157

OWNER: LAYTON CITY 437 N WASATCH DR, LAYTON, UT 84041

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