SPECIFICATIONS

I. SCOPE

- A. INSTALL ALL ELECTRICAL WORK COVERED BY THESE SPECIFICATIONS AND APPROVED DRAWINGS. PROVIDE ALL MATERIAL, LABOR, TRANSPORTATION, TOOLS, SUPERVISION, ETC., NECESSARY TO COMPLETE THE TOTAL ELECTRICAL JOB. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION SHALL BE PROVIDED.
- B. ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUCTOR SIZE, OVERCURRENT PROTECTIVE DEVICE AND DISCONNECT SWITCHES ARE BASED ON POWER REQUIREMENTS OR EQUIPMENT SPECIFIED AS SHOWN ON THE CONTRACT DOCUMENTS. PRIOR TO INSTALLING WORK, CONTRACTOR SHALI COORDINATE ELECTRICAL REQUIREMENTS WITH EQUIPMENT OF ALL TRADES REQUIRING ELECTRICAL CONNECTIONS.
- C. FINAL CONNECTIONS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH ACTUAL EQUIPMENT SUPPLIED.
- D. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICES (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. AS REQUIRED. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- E. EXAMINATION OF BIDDING DOCUMENTS
 - 1. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITY, INCONSISTENCY OR ERROR THEREIN, ANY INTERPRETATION OR CORRECTION WILL BE ISSUED BY THE ARCHITECT AS AN ADDENDUM. ONLY WRITTEN INTERPRETATION OR CORRECTIONS BY ADDENDUM SHALL BE BINDING. CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR, MATERIALS AND METHODS OF CONSTRUCTION FOR COMPLETE INSTALLATION, AFTER AWARD OF CONTRACT NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE IN BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO
- 2. FAILURE TO REQUEST CLARIFICATION OF ANY INADEQUACY, OMISSION OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE WORKING DRAWINGS AND SPECIFICATIONS.

II. CODES AND FEES

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2005 NATIONAL ELECTRICAL CODE, N.F.P.A. 70 AND ALL LOCAL AND STATE CODES AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY THE BUILDING AND SAFETY CODES AND ORDINANCES, AND THE RULES AND REGULATIONS OF ANY LEGAL BODY HAVING JURISDICTION.

III. WORKMANSHIP

- A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT. COORDINATE DEVICE LOCATIONS WITH DOOR SWINGS, CABINETS, COUNTERS, ETC., AS NDICATED ON THE ARCHITECTURAL DRAWINGS. DO NOT SCALE ELECTRICAL PLANS. OBTAIN DIMENSIONS FOR LAYOUT OF EQUIPMENT FROM ARCHITECTURAL PLANS UNLESS INDICATED ON ELECTRICAL PLANS.
- B. COORDINATE WITH ALL OTHER TRADES AND SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT. MINOR OFFSETS IN LOCATIONS OF FIXTURES, DEVICES, ETC. SHALL BE MADE TO AVOID CONFLICTS WITH OTHER TRADES. SUCH MODIFICATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO THE WORK
- BEING PERFORMED. C. MOLINTING HEIGHTS LINLESS OTHERWISE NOTED ARE TO THE CENTER LINE OF THE EQUIPMENT AND/OR DEVICE EXCEPT THE MOUNTING HEIGHT OF SUSPENDED LIGHT FIXTURES WHICH IS TO THE BOTTOM OF FIXTURE.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED JNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.

IV. SUBSTITUTIONS

- A. ALL COST INCURRED BY THE ACCEPTANCE OF SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR. PROOF FOR THE EQUALITY OF SUBSTITUTIONS SHALL BE BY THE CONTRACTOR
- A. ALL ELECTRICAL ITEMS COVERED BY THIS SPECIFICATION SHALL BE U.L. LABELED AND LISTED FOR THEIR SPECIFIC USE.
- VI. ELECTRICAL SERVICE A. THE ELECTRICAL CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY THE LOCAL UTILITY COMPANY PROVIDING SERVICES INDICATED. ELECTRICAL CONTRACTOR SHALL COORDINATE METERING, TRANSFORMER PAD, CONNECTION POINTS AND GROUNDING WITH UTILITY COMPANY.
- B. ALL SERVICE ENTRANCE EQUIPMENT INCLUDING BUT NOT LIMITED O ANY MAIN DISCONNECT SWITCH, PANEL, OR SWITCHBOARD SHALL BE LISTED AND LABELED AS "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT".
- A. WORK SHALL BE WARRANTIED FOR A PERIOD OF ONE (1) YEAR

FROM THE DATE OF ACCEPTANCE BY THE OWNER.

VIII. SPECIFICATIONS

A. GROUNDING

- 1. THE BUILDING ELECTRICAL SYSTEMS SHALL BE SOLIDLY GROUNDED. ALL NON-CURRENT CARRYING METAL PARTS OF THE ELECTRICAL SYSTEM, I.E., RACEWAYS, EQUIPMENT ENCLOSURES, FRAMES, JUNCTION AND OUTLET BOXES AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS, SHALL BE GROUNDED TO PROVIDE A LOW IMPEDANCE PATH FOR POTENTIAL
- 2. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS AND CABLES.
- 3. THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT ALL SERVICE EQUIPMENT.

B. RACEWAYS AND CONDUITS

- 1. CONDUITS INSTALLED IN DIRECT CONTACT WITH GRADE OR WITHIN CONCRETE SLABS SHALL BE SCHEDULE 40 PVC. CONDUITS CONCEALED WITHIN WALLS AND ABOVE CEILINGS, AND EXPOSED IN INDOOR AREAS SHALL BE ELECTRICAL METALLIC TUBING (E.M.T.). COUPLINGS SHALL BE STEEL SET SCREW TYPE FOR INDOOR LOCATIONS, AND COMPRESSION TYPE FOR OUTDOOR AND WET LOCATIONS. CONDUIT SHALL BE INTERMEDIATE OR GALVANIZED RIGID STEEL IN AREAS WHERE SUBJECT TO ABUSE.
- 2. CONDUITS SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS.
- 3. LIQUID TIGHT FLEXIBLE METAL OR NON-METALLIC CONDUIT SHALL BE USED FOR OUTDOOR EXPOSED CONNECTIONS TO GROUND- OR ROOF- MOUNTED EQUIPMENT.
- 4. ALL RACEWAYS SHALL BE INSTALLED CONCEALED EXCEPT IN UNFINISHED SPACES OR WHERE INDICATED ON THE
- . FASTENERS AND SUPPORTS SHALL BE AS MANUFACTURED BY GEDNEY, EFCOR OR EQUAL. SUPPORTING DEVICES SHALL BE THOSE AS MANUFACTURED FOR A SPECIFIC PURPOSE. NAILS, WIRE OR PIPE STRAP SHALL NOT BE
- 6. PROVIDE FLEXIBLE EXPANSION CONDUIT FITTINGS ON ALL CONDUIT CROSSING EXPANSION JOINTS. SEE ARCHITECTURAL PLANS FOR EXPANSION JOINT LOCATIONS.

C. CONDUCTORS

- ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, 90°C, THHN/THWN INSULATION.
- 2. UNLESS NOTED OTHERWISE, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER, THHN/THWN-2 INSULATION. WHERE APPROVED, ALUMINUM CONDUCTORS SHALL BE COMPACT, AA-8000 SERIES, XHHW-2. 90°C.
- 3. WIRE NO. 8 AWG AND LARGER SHALL BE STRANDED, NO. 10 AND SMALLER SHALL BE SOLID.
- 4. ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS, NO. 1 AWG AND SMALLER, SHALL BE COLOR CODED AS FOLLOWS (WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION):
- 120/208 VOLT SYSTEM 277/480 VOLT SYSTEM PHASE A - BLACK PHASE B - ORANGE PHASE B - RED PHASE C - BLUE PHASE C - YELLOW NEUTRAL - GREY GROUND - GREEN GROUND - GREEN
- 5. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE C AMBIENT.
- 6. NONMETALLIC-SHEATHED CABLE SHALL BE PERMITTED IN ONE—, TWO— AND MULTI-FAMILY DWELLINGS FOR BUILDING CONSTRUCTION TYPES III, V AND V, AND WHERE PERMITTED BY THE LOCAL AUTHORITY

D. PANELBOARDS

- PANELBOARDS SHALL HAVE BOLT-IN CIRCUIT BREAKERS AND ALUMINUM BUSSING. WHERE APPLICABLE, LOAD CENTERS SHALL HAVE PLUG-IN BREAKERS AND ALUMINUM BUSSING.
- 2. OVERCURRENT PROTECTIVE DEVICES SHALL BE AUTOMATIC TRIP THERMAL MAGNETIC TYPE WITH QUICK-MAKE QUICK-BREAK FOR BOTH MANUAL AND AUTOMATIC OPERATION. ALL MULTIPOLE BREAKERS SHALL BE
- 3. SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES AND MOTOR CONTROL CENTERS SHALL BE MANUFACTURED BY GENERAL ELECTRIC SIEMENS, SQUARE 'D' OR EATON/CUTLER HAMMER. BOLT FREE STANDING EQUIPMENT TO 4" HIGH EQUIPMENT HOUSEKEEPING PADS. SWITCHBOARD SECTIONS SHALL BE FULLY BUSSED.
- 4. TYPEWRITTEN DIRECTORIES AND PANELBOARD DESIGNATION PLATES SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL PANELBOARDS. PANELBOARD DESIGNATIONS SHALL BE PHENOLIC-ENGRAVED.
- WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C. MINIMUM.

E. LIGHTING FIXTURES

- UNLESS INDICATED ON DRAWINGS, BALLASTS PROVIDED WITH FIXTURES SHALL BE ETL-CBM APPROVED, HIGH POWER FACTOR, WITH U.L. LABEL. ALL BALLASTS FOR RAPID START LAMPS SHALL BE PREMIUM CLASS P.
- 2. FIXTURES RECESSED IN T-BAR CEILING SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM, WITH TWO (2) NUMBER TWELVE (12) HANGER WIRES UP TO STRUCTURE. SECURE HANGÈR WIRES TO CORNERS O FIXTURE. CLIP FIXTURE TO GRID ON TWO SIDES WITH FACTORY FURNISHED CLIPS. FINAL CONNECTION TO FIXTURE SHALL BE MADE WITH A FLEXIBLE U.L. APPROVED ASSEMBLY.

PROVIDE ACCESSORIES T MATCH EXISTING.

F. DISCONNECT SWITCHES

- SAFETY-TYPE DISCONNECT SWITCHES SHALL BE HEAVY DUTY WITH QUICK-MAKE, QUICK-BREAK MECHANISM WITH INTERLOCKING COVER WHICH NORMALLY CANNOT BE OPENED WHEN THE SWITCH IS IN THE "ON" POSITION SWITCH SHALL HAVE PROVISIONS FOR PAD-LOCKING IN THE OPEN OR CLOSED POSITION.
- FUSIBLE DISCONNECT SWITCHES SHALL HAVE REJECTION-TYPE FUSEHOLDERS. FUSES SHALL BE NON-RENEWABLE, DUAL ELEMENT TIME-DELAY "RK1" OR RK5", OR AS SPECIFIED OTHERWISE.
- 3. ACCEPTABLE MANUFACTURERS: EATON/CUTLER HAMMER, G.E., SIEMENS OR SQUARE D

G. MISCELLANEOUS EQUIPMENT

- TIME CLOCK SHALL BE ELECTRONIC TYPE WITH ASTRONOMICAL FUNCTIONS (TORK DZS 200BP OR APPROVED EQUAL).
- PHOTOCELL SHALL HAVE RAINTIGHT PHOTOELECTRIC SELF-CONTAINED CONTROL FOR SWITCHING. PHOTOCELL SHALL HAVE DIE-CAST HOUSING WITH ADJUSTABLE SENSOR. (ACCEPTABLE MANUFACTURERS: TORK 2100 SERIES OR APPROVED EQUAL.)

H. SUBMITTALS

PANELBOARDS, WIRING DEVICES, SWITCHES AND DISCONNECTS, LIGHTING FIXTURES, AND FUSE SUBMITTALS SHALL BE REQUIRED, AND ARE TO INCLUDE MANUFACTURER'S DATA, TEST REPORTS, PERFORMANCE

LIGHTING SERVICE NOTES:

- (1) SECONDARY UNDERGROUND ELECTRICAL SERVICE LATERAL CONDUCTORS FOR LIGHTING, FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR FROM UTILITY COMPANY PAD-MOUNTED TRANSFORMER OR HANDHOLES, PROVIDE 3#4 CU IN 2"C. COORDINATE ALL REQUIREMENTS WITH UTILITY PRIOR TO
- (2) PROVIDE LONG SWEEP RADIUS ELLS (TYPICAL).
- 3 MEET ALL UTILITY COMPANY REQUIREMENTS.
- (4) PROVIDE SERVICE ENTRANCE LABEL, NEMA 3R, 60A/2P/60A RK1 FUSED DISCONNECT SWITCH IN ELECTRICAL CABINET, VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY, ALL APPLICABLE CODES, STANDARDS, AND THE AHJ. PROVIDE ACCORDINGLY.
- (5) GROUNDING, BONDING AND COPPER GROUNDING ELECTRODE SYSTEM PER NEC 250 AS ADOPTED BY AUTHORITY HAVING JURISDICTION. PROVIDE 5/8" DIAMETER BY 10' LONG COPPERWELD GROUND ROD ALL BONDED TOGETHER
- (6) PROVIDE 3#4 THWN CU. AND 1#8 GROUND IN 1"C.
- (7) LIGHTING PANEL AS SCHEDULED. PROVIDE 60A CONTACTOR TO CONTROL ALL LIGHTING CIRCUIT AT PANEL VIA TIMECLOCK AND PHOTOCELL. PROVIDE AS NECESSARY FOR COMPLETE CONNECTION AND OPERATION OF SITE LIGHTING EQUIPMENT.
- 8 CONTRACTOR TO PROVIDE SQUARE D INTEGRATED POWER CENTER OR EQUAL FOR PANEL INSTALLATION.
- NOTE: PROVIDE CONTACTOR AND TIMECLOCK WITHIN PANEL ENCLOSURE, LOCATE PHOTOCELL AT TOP OF ENCLOSURE OR OTHERWISE AWAY FROM PUBLIC ACCESS. VERIFY ALL REQUIREMENTS FOR INSTALLATION PRIOR TO BEGINNING WORK AND PROVIDE ALL MATERIAL AND LABOR.

GENERAL NOTES:

- G-1 COORDINATE WITH UTILITY FOR SPECIFIC REQUIREMENTS AND DETAILS
 ASSOCIATED WITH ELECTRICAL SERVICE ENTRANCE WORK, ALL WORK SHALL COMPLY WITH ENERGY ELECTRICAL SERVICE GUIDELINES AND STANDARDS.
- G-2 BRANCH CIRCUIT WIRING SHOWN ON THIS SHEET SHALL BE MINIMUM #8 AWG FOR 480 VOLT CIRCUITS NOT OVER 500 FEET. FOR CIRCUITS OVER 500 FEET BUT BUT OVER 700 FEET, MINIMUM #6 WIRE SHALL BE USED. FOR CIRCUIT OVER 700 FEET, MINIMUM #4 WIRE SHALL BE USED
- G-3 COORDINATE EXACT LOCATION AND ORIENTATION OF LIGHTING FIXTURES WITH ARCHITECT AND/OR SITE LIGHTING CONSULTANT. FIELD AIM AND ADJUST AS DIRECTED BY THE ARCHITECT AND/OR OWNER AFTER FIXTURES ARE INSTALLED
- G-4 CONTRACTOR SHALL REPAIR/REROUTE/REPLACE EXISTING IRRIGATION SYSTEM, EXISTING SHRUBS, GROUNDCOVER WITH MATERIAL THAT IS APPROVED BY TOWN OF ADDISON, THE INTENT BEING TO FULLY RESTORE THE SITE WHERE ELECTRICAL/ LIGHTING WORK IS BEING PERFORMED.
- G-5 CONTRACTOR TO FIELD VERIFY WITH TOWN OF ADDISON AND ONCOR THE FINAL LOCATION OF TRAIL/BOLLARD LIGHTS OR IF ADDITIONAL LIGHTING IS REQUIRED.
- G-6 CONTRACTOR SHALL INVESTIGATE EXISTING IRRIGATION SYSTEM(S) PRIOR TO EXCAVATION.
- G-7 CONTRACTOR SHALL MAKE REPAIRS AND ADJUSTMENTS AS NECESSARY AND TEST EXISTING IRRIGATION SYSTEM(S) AFTER THE ELECTRICAL AND STREET LIGHTING INSTALLATION.
- G-11 CONTRACTOR SHALL REPORT TO THE TOWN OF ADDISON CONCERNING ANY IRRAGATION SYSTEM ISSUES/REPAIRS/ADJUSTMENTS AND TESTING RESULTS.
- G-8 CONTRACTOR SHALL REPORT TO THE TOWN'S DIRECTION, PREPARE NEW GROUNDCOVER BEDS/ REPAIRS TO EXISTING BEDS WITHIN AN ESTIMATED AREA OF 19,500 SQUARE FEET/ALL AREAS G-9 CONTRACTOR SHALL INCORPORATE SOIL AMENDMENTS INTO REPAIR AREAS PER THE TOWN'S
- DIRECTION/AN ESTIMATED 120 CUBIC YARDS OF BEDDING SOIL SHALL BE ALLOCATED FOR SOIL AMENDMENT. G-10 GROUND COVER/PURPLE WINTERCREPER 4" POTS/SPACING-APPROXIMATELY 12" ON CENTER SHALL BE INSTALLED PER THE TOWN'S DIRECTION.
- G-11 CONTRACTOR SHALL INSTALL HARDWOOD MULCH IN ALL REFURBISHMENT OR NEW BED AREAS/AN ESTIMATED 120 CUBIC YARDS OF MULCH SHALL BE ALLOCATED FOR BED AREAS.
- G-11 CONTRACTOR TO KEEP EXISTING POLES & CONDUITS UNTIL NEW POLES ARE INSTALLED.
- G-12 CONTRACTOR TO PROVIDE 2 QUANTITIES OF 2°C WITHIN FOUNDATION OR POLE BASE. G-13 CONTRACTOR TO CONFIRM THE SOURCE OF TIE-INS WITH ONCOR.

NOTE: PLANTS (GROUNDCOVER) IS NOT GRAPHICALLY DEPICTED UPON DRAWINGS. INSTALL PER DIRECTION OF THE TOWN OF ADDISON. TOWN CONTACT: MICHAEL KASHUBA, LANDSCAPE ARCHITECT (972)450-2831

SERVICE EQUIPMENT "SL" GROUND FUS #8 CU ----3 #12, 1/2" CONDUIT 3/4" x 10' GROUND ROD (MIN. 8' APART) - MECHANICALLY HELD CONTACTOR (POLES AS REQUIRED) ₩ CU SEQUIPMENT ENGLÖSURE BONDING JUMPER VALVE, METER OR UNION 3 EXTERIOR LIGHTING CONTROL DETAIL GROUND CLAMP (UL LISTED) SERVICE GROUNDING & BONDING SCALE HTS

ONCOR

STREET LIGHT FOUNDATION

DECURATIVE - ANCHOR BASE

ACTES:

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RENOVATIONS AND ADDITIONS

WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER, WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF THE OWNER'S PROPERTY, SHALL BE DONE AT A TIME OTHER THAN NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE CONSIDERED EIGHT A.M. TO FIVE P.M. MONDAY THROUGH FRIDAY. SCHEDULE ALL OUTAGES WITH THE OWNER AND ARCHITECT PRIOR TO SHUTDOWN.

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MS SOUT CHECK

58 S18296

SECTION "A - A "

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PROUPERSONS BUSINESS OF "ARCHOR BERTS

DESCRIPTION

APPROVED BY

- PRIOR TO SUBMITTING BIDS ON THE PROJECT, VISIT THE SITE TO BECOME AWARE OF EXISTING CONDITIONS WHICH MAY AFFECT THE COST OF THE PROJECT.
- WHERE WORK UNDER THIS PROJECT REQUIRES EXTENSION, RELOCATION, RECONNECTION OR MODIFICATION TO EXISTING EQUIPMENT OR SYSTEMS, THE EQUIPMENT OR SYSTEMS SHALL BE RESTORED TO OPERATING CONDITION. EXTEND NEW HOMERUNS OR CIRCUIT EXTENSIONS WHERE REQUIRED. DISCONNECT AND REMOVE ALL EQUIPMENT INDICATED TO BE DEMOLISHED, INCLUDING OUTLET BOXES, DEVICES, RACEWAYS AND CONDUCTORS.
- CARE SHALL BE EXERCISED IN THE REMOVAL AND STORAGE OF EQUIPMENT INDICATED TO BE RELOCATED, REMOVED AND/OR REUSED. PRIOR TO PLACING BACK INTO SERVICE, EXISTING EQUIPMENT SHALL BE CLEANED AND/OR RELAMPED. MARRED OR CHIPPED SURFACES SHALL BE TOUCHED-UP. DISPOSE OF ANY MATERIAL NOT WISHED TO BE KEPT BY THE OWNER.
- PROVIDE ALL CORING, CUTTING AND PATCHING TO EXISTING WALLS, FLOORS, ETC. REQUIRED FOR THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK.

DIVISION OF RESP

SECONDARY CONDUIT

/T ENCLOSURE

METER BASE/ENCLOSURE

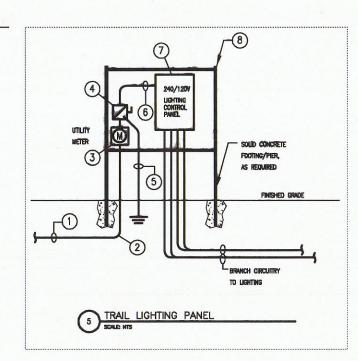
TRENCHING/BACKFILL

BOLLARD LIGHTS (B)

LIGHT CONTACTOR PANEL

SECONDARY CONDUCTORS

XFMR SECONDARY CONNECTIONS



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CKT TRIP	TRIP				LC	IAD (K	VA)	-		PHASE		100000	LO	AD (K	(A)		- 24-3		TRIP	CKT
#	POLE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A B	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	POLE	#
1	20/2	B LIGHTS	0.3													7007=		SPACE		2
3			0.3												10000	7755		SPACE		4
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RECEP	TACLES	(KVA): 0.0																DEMAND LOAD (KVA):		0.9
MOTO	RS (KVA)): 0.0		-	See and	-	gi un	PHA	SE A	0.5	3.	9	-	ostroito	. 100	-				

#	TRIP POLE	DESCRIPTION	LTG	DEC	MTR	AD (K		VIT	LAUCO	PHASE		DEC		AD (K	HTG	TIN	MICC	DESCRIPTION	TRIP POLE	CH #
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3	00.10	D LIQUEO	0.3	-	\vdash	_	-	_	_	Щ		_	_	_	_		_	SPACE		_
5	20/2	B LIGHTS	0.2	-	-	_	_		_	7.		_	_	_	_		_	SPACE		(
7	-	00100	0.2					_		Щ		_	_	_		-		SPACE		8
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HEAT	ING (KVA): 0.0								KVA	AN	PS						DEMAND LOAD (AMPS):		4.4
KITCH	HEN (KVA): 0.0																		
MISC	ELLANEO	US (KVA): 0.0									P-17 (AMPACITY REQUIRED:	-	5.5
NOTE		KERS PROTECTING MULTI-WI UCTORS ARE SIMULTANEOU							UIPPE	WITH	A MA	NUALL	Y OPE	RATED	HAND	LE-TIE	DEVIC	E TO ENSURE THAT ALL UNGS	OUNDED	

TYPE	DESCRIPTION	LAMP	NOTES
M1	EH16FT-150M MED-GCF-SR3-VOLTAGE-4K POLE: PX PD18 16 S5 ARM: EAL4/2 FIXTURE DETAILS/SPECS TO BE APPROVED BY ADDISON CITY EVERY FIXTURE VOLTAGE TO BE CONFIRMED BY ONCOR	150W MH TYPE III DISTRIBUTION	POLE HT 16'-0". PROVIDE ACCESSORIES TO MATCH EXISTING.
M2	EH16FT-150M MED-GCF-SR3-VOLTAGE-4K-HS POLE: PX PD18 16 S5 ARM: EAL4/1 FIXTURE DETAILS/SPECS TO BE APPROVED BY ADDISON CITY EVERY FIXTURE VOLTAGE TO BE CONFIRMED BY ONCOR	150W MH TYPE III DISTRIBUTION	POLE HT 16'-0". PROVIDE ACCESSORIES TO MATCH EXISTING.
В	DSXB-LED-16C-530-40K-SYM-MVOLT-XX FIXTURE DETAILS/SPECS TO BE APPROVED BY ADDISON CITY	LED	BOLLARD PROVIDE ACCESSORIES TO

LIGHTING FIXTURE SCHEDULE

ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY FOR POLE LIGHTS SECONDARY CONDUCTORS XFMR SECONDARY CONNECTIONS C/T ENCLOSURE METER BASE/ENCLOSURE LIGHT CONTACTOR PANEL TRENCHING/BACKFILL SECONDARY CONDUN FOUNDATION/HANDHOLES POLE LIGHTS (M1,M2)

Tat ta/mi	TADIO	1	PANELBOARD SCHEDULE - L2																		
ELECTI		MAIN	: 60A WLO		VOLTAGE: 240/120 PHASE: 1 WIRE: 3 MOUNTING: AIC: 14										IC: 14KAIC	Γ					
VISION (TE BES	PON	SII	PIT ITY	CKT #	TRIP POLE	DESCRIPTION	LTG	REC	LOAD ((KVA)	KIT MISC	PHASE A B	LTG REC		AD (KVA)	TG KIT	LMISC	DESCRIPTION	TRIP	ľ
IDIOIA (AL TARK	1	20/2	B LIGHTS	0.3											SPACE					
FOR BOLLARD LIGHTS								0.3											SPACE		
run r	OLLAR	יש ע	JI	119	7	20/2	B LIGHTS	0.2	Н	_	++	+-		-	-		_		S PACE S PACE	+-	ł
					9		SPACE												SPACE		t
	ELECTRICAL			ALL DEVICES IN THE RESERVE OF	- 11		SPACE			E									SPACE		Γ
	CONTRACTOR	UTILITY			13		SPACE								_				SPACE	_	Ļ
	FOR TOWN	COMPANY			15		SPACE SPACE		_		-		Щ	_	-		_		S PACE S PACE	_	╀
	of addison	ONCOR			19		SPACE	+			++	_			+	_	-		SPACE	+	H
ARY CONDUIT					21		SPACE	-			+ +	_			\vdash				SPACE		t
		- -			23	10	SPACE												SPACE		İ
ARY CONDUCTORS						TING (KVA		0.9	0.0	0.0 0.0	0.0	0.0		0.0 0.0	0.0	0.0 0.0	0.0		CONNECTED LOAD (KVA):		0.5
						PTACLES ORS (KVA)		-				PHASE A	0.5	3.9	_				DEMAND LOAD (KVA):		0.5
ECONDARY CONNECT	IONS 🗵		1			(KVA):	0.0	+-				PHASE B	0.5	3,9	_				CONNECTED LOAD (AMPS):		30
OI OCUDE	679)			ING (KVA)						THE TOTAL D	KVA	AMPS					DEMAND LOAD (AMPS):		3.5
CLOSURE			/			HEN (KVA)															_
	×		(DED LITTLES		ELLANEOL													AMPACITY REQUIRED:		4,5
	8-1 /4		>	PER UTILITY REQUIREMENTS	NOTE		ERS PROTECTING MULTI-WIR UCTORS ARE SIMULTANEOUS)-EQUIPPED	WITH	A MANUAL	LY OPER	CATED HA	NDLE-TIE	: DEVIC	E TO ENSURE THAT ALL UN	GROUNDED	
BASE/ENCLOSURE			(REQUIREMENTS		CONDI	DOTORS ARE SIMULTANEOUS	LT DISC	UINNEU	TED FER IN	VEG 240.13.										-
ING/BACKFILL			1																		
		_)																		
ONTACTOR PANEL																					
LIGHTS (B)																					

CKT	TRIP	60A MLO			17	DAD (K	WAN	_	100	PHAS	240/1	20		SE: 1 OAD (K		TL. V	III CO.	NTING: AIC	TRIP
#	POLE	DESCRIPTION	LTG	DEC	MTR			KIT	IMISC			DEC				KIT	MISC	DESCRIPTION	PC
1		B LIGHTS	0.3	INCO		1110	1110	1411	miles	n i	110	HEO	100 110	71.70	111.0	147	mio	SPACE	1
3	EU. E	- Linite	0.3															SPACE	1
5	20/2	B LIGHTS	0.2												T			SPACE	
7			0.2															SPACE	T
9		SPACE																SPACE	
11		SPACE	N															SPACE	
13	1	SPACE			8.00							38			2 0		0 2	SPACE	
15		SPACE			1						1			No. of		Sand	100	SPACE	
17		SPACE										1000				1-1	1000	SPACE	
19		SPACE																SPACE	
21		SPACE					178											SPACE	
23		SPACE																SPACE	
LIGHT	ING (KVA): 1.1	1,1	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):	
	TACLES			4				100				-00	2000					DEMAND LOAD (KVA):	
	RS (KVA)								SE A	0.5		4			100	1022	u mare		
A/C(0.0						PHA	SE B	0.5		4						CONNECTED LOAD (AMPS):	
	NG (KVA)									KVA	AA	IPS						DEM AND LOAD (AMPS):	
	EN (KVA)																		
MISCE	LLANEOL	IS (KVA): 0.0																AMPACITY REQUIRED:	

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V: (469) 385-1616 F: (469) 385-1615 省 MARK N. BIGBIE 83876 CENSEY

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PRINT RECORD ISSUED FOR 5/21/2014 **REVIEW SET** 06/23/14 50% REVIEW SET 07/30/14 90% CD 95% CD 08/18/14 CHECK SET 09/17/14 09/29/14 100% BID DOCUMENT

REVISIONS # DATE DESCRIPTION

Project Number: 143-0340

Drawn By: VB Checked By: MNB

SHEET TITLE **ELECTRICAL** -**POWER**

SHEET NUMBER

NOT ISSUED FOR CONSTRUCTION