EXISTING PANELBOARD 'LP-UV'

LOCATION ELECTRICAL ROOM

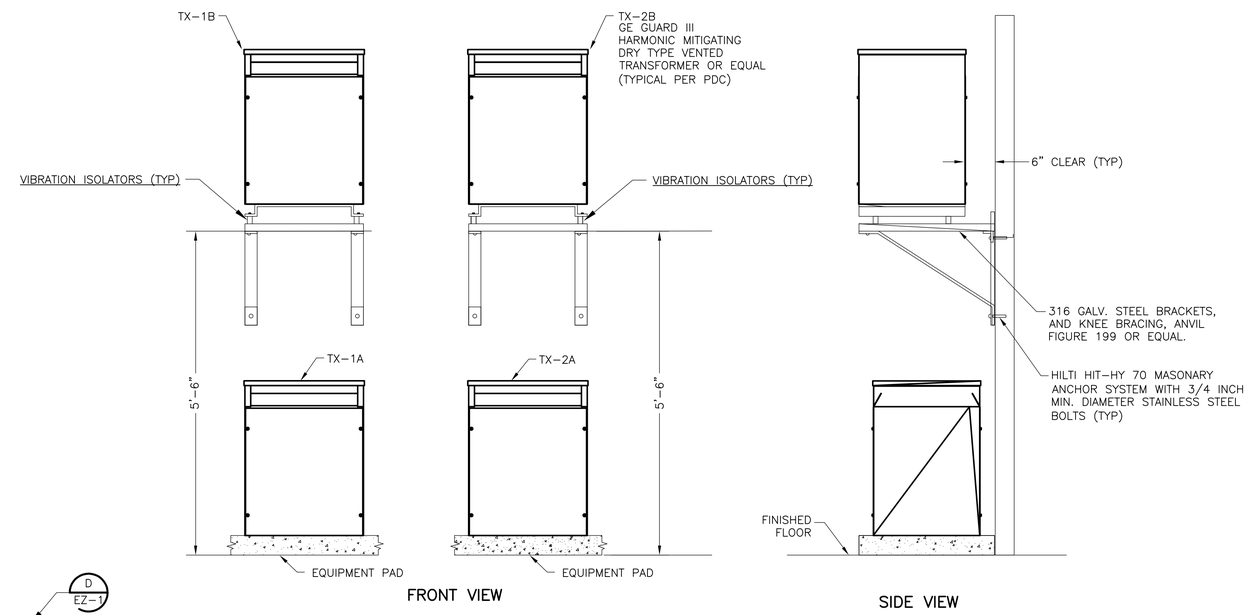
150 AMP BUS RATING 150 AMP MAIN C/B 22 KA SHORT CIRCUIT RATING 42 POLES

208/120 VOLTS 3 PH. 4 WIRE 60 HZ. ☐ ELECTRONIC GRADE (OPTIONAL) SURFACE MOUNTED

DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C	C/B AMP/ POLES			C/B AMP/ POLES	LOAD KVA A	LOAD KVA B	LOAD KVA C	DESCRIPTION
SPARE	–			60 / 1	1	2	60 / 1	–			SPARE
SPARE		–		60 / 1	3	4	60 / 1		–		SPARE
SPARE			–	30 / 1	5	6	20 / 1			1.8	SCC
FIT–UV–1A	.25			20 / 1	7	8	20 / 1	.25			LIT–UV–1A
UVT SENSOR		1.0		20 / 1	9	10	20 / 1		.25		LIT–UV–1B
UV ROOM RECEPTACLE			0.18	20 / 1	11	12	20 / 1			0.18	UV EXTERIOR RECEPTACLE
SPARE	–			20 / 1	13	14	20 / 1	–			SPARE
SPARE		–		20 / 1	15	16	20 / 1		–		SPARE
SPARE			–	20 / 1	17	18	20 / 1			–	SPARE
SPARE	–			20 / 1	19	20	20 / 1	–			SPARE
SPARE		–		20 / 1	21	22	20 / 1		–		SPARE
SPARE			–	20 / 1	23	24	80 / 2			–	SPARE
SPARE	–			20 / 1	25	26	80 / 2	–			SPARE
SPARE		–		20 / 1	27	28	80 / 2		–		SPARE
SPARE			–	20 / 1	29	30	80 / 2			–	SPARE
SPARE	–			20 / 1	31	32	80 / 2	–			SPARE
SPARE		–		20 / 1	33	34	80 / 2		–		SPARE
SPARE			–	20 / 1	35	36	20 / 1			–	SPARE
SPARE	–			20 / 1	37	38	20 / 1	–			SPARE
SPARE		–		20 / 1	39	40	20 / 1		–		SPARE
SPARE			–	20 / 1	41	42	20 / 1			–	SPARE
					A	B C					
								.5	1.25	2.16	TOTAL KVA PER PHASE
									3.91		TOTAL KVA

NOTES:
1. 2#12 AWG AND 1#12 AWG GND IN 3/4" CONDUIT FOR ALL 15A & 20A SINGLE–PHASE CIRCUITS UNLESS NOTED OTHERWISE
2. 2#10 AWG AND 1#10 AWG GND IN 3/4" CONDUIT FOR ALL 30A SINGLE–PHASE CIRCUITS UNLESS NOTED OTHERWISE
3. 3#10 AWG AND 1#10 AWG GND IN 3/4" CONDUIT FOR ALL 30A THREE–PHASE CIRCUITS UNLESS NOTED OTHERWISE
4. 3#12 AWG AND 1#12 AWG GND IN 3/4" CONDUIT FOR ALL 20A THREE–PHASE CIRCUITS UNLESS NOTED OTHERWISE

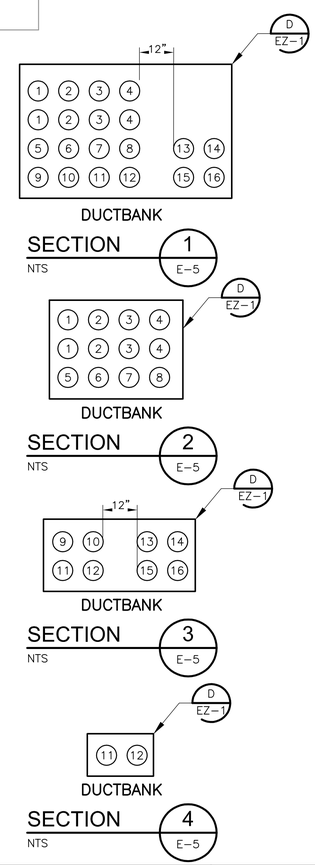
EXISTING PANELBOARD 'LP–UV'
SCHEDULE
NTS

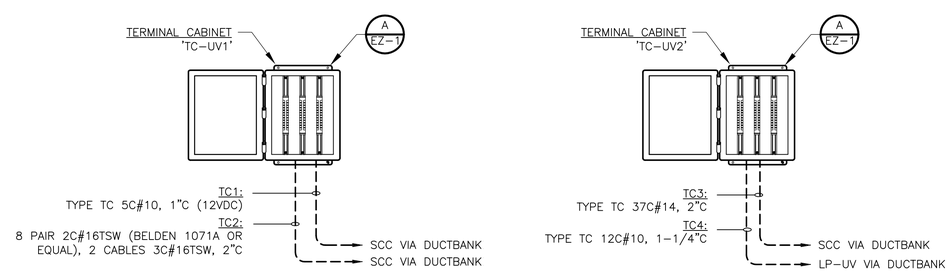


WALL AND PAD MOUNTED TRANSFORMER
DETAIL A / E–5
NTS

ID NO.	FROM	TO	SCHEDULE/CONDUIT TAG	REFERENCE SHEET(S)	REMARKS
1	POWER DISTRIBUTION CENTER 'PDC–1A'	UV BANK–1A	PDC–SENSOR–1A	E–5	WIRING DIAGRAM 6
2	POWER DISTRIBUTION CENTER 'PDC–1B'	UV BANK–1B	PDC–SENSOR–1B	E–5	WIRING DIAGRAM 6
3	POWER DISTRIBUTION CENTER 'PDC–2A'	UV BANK–2A	PDC–SENSOR–2A	E–5	WIRING DIAGRAM 6
4	POWER DISTRIBUTION CENTER 'PDC–2B'	UV BANK–2B	PDC–SENSOR–2B	E–5	WIRING DIAGRAM 6
5	POWER DISTRIBUTION CENTER 'PDC–1A'	UV BANK–1A	PDC–LAMPS–1A	E–5	WIRING DIAGRAM 6
6	POWER DISTRIBUTION CENTER 'PDC–1B'	UV BANK–1B	PDC–LAMPS–1B	E–5	WIRING DIAGRAM 6
7	POWER DISTRIBUTION CENTER 'PDC–2A'	UV BANK–2A	PDC–LAMPS–2A	E–5	WIRING DIAGRAM 6
8	POWER DISTRIBUTION CENTER 'PDC–2B'	UV BANK–2B	PDC–LAMPS–2B	E–5	WIRING DIAGRAM 6
9	SWITCHBOARD 'SB–UV'	HYDRAULIC SYSTEM 'HSC–1A'	SBUV3	E–4	–
10	SWITCHBOARD 'SB–UV'	HYDRAULIC SYSTEM 'HSC–1B'	SBUV4	E–4	–
11	SWITCHBOARD 'SB–UV'	SLIDE GATE 'MOV–1'	SBUV1A	E–4	VIA DISCONNECT SWITCH
12	SWITCHBOARD 'SB–UV'	SLIDE GATE 'MOV–2'	SBUV2A	E–4	VIA DISCONNECT SWITCH
13	SYSTEM CONTROL CENTER 'SCC'	TERMINAL CABINET 'TC–UV2'	TC3	E–5 E–6	'MOV' CONTROL SIGNALS VIA TERMINAL CABINET
14	SYSTEM CONTROL CENTER 'SCC'	TERMINAL CABINET 'TC–UV1'	TC1	E–5 E–6	'SCC' CONTROL SIGNALS VIA TERMINAL CABINET
15	SYSTEM CONTROL CENTER 'SCC'	TERMINAL CABINET 'TC–UV1'	TC2	E–5 E–6	'SCC' CONTROL SIGNALS VIA TERMINAL CABINET
16	PANELBOARD LP–UV	TERMINAL CABINET 'TC–UV2'	TC–4	E–5	CAP SPARE CONDUIT FOR FUTURE USE

UNDERGROUND DUCTBANK
SCHEDULE
NTS





TERMINAL CABINET 'TC–UV1' RISER
DIAGRAM 1 / E–5
NTS

TERMINAL CABINET 'TC–UV2' RISER
DIAGRAM 2 / E–5
NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: J. VARGHESE
DRAWN BY: J. VARGHESE
SHEET CHK'D BY: M. HANDLEY
CROSS CHK'D BY: M. HANDLEY
APPROVED BY: I. PJETROVIC
DATE: APRIL 2015

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MO COA No. 001431

CITY OF WICHITA, KANSAS
WATER AND SEWER DEPARTMENT
SEWAGE TREATMENT PLANT NO.2 IMPROVMENTS
UV DISINFECTION

PANELBOARD SCHEDULE AND DETAILS

INDIRA PJETROVIC LICENSED 21914 4/15/15 KANSAS PROFESSIONAL ENGINEER

PROJECT NO. 2395–104609
FILE NAME: E–7.DWG
SHEET NO. E–7

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