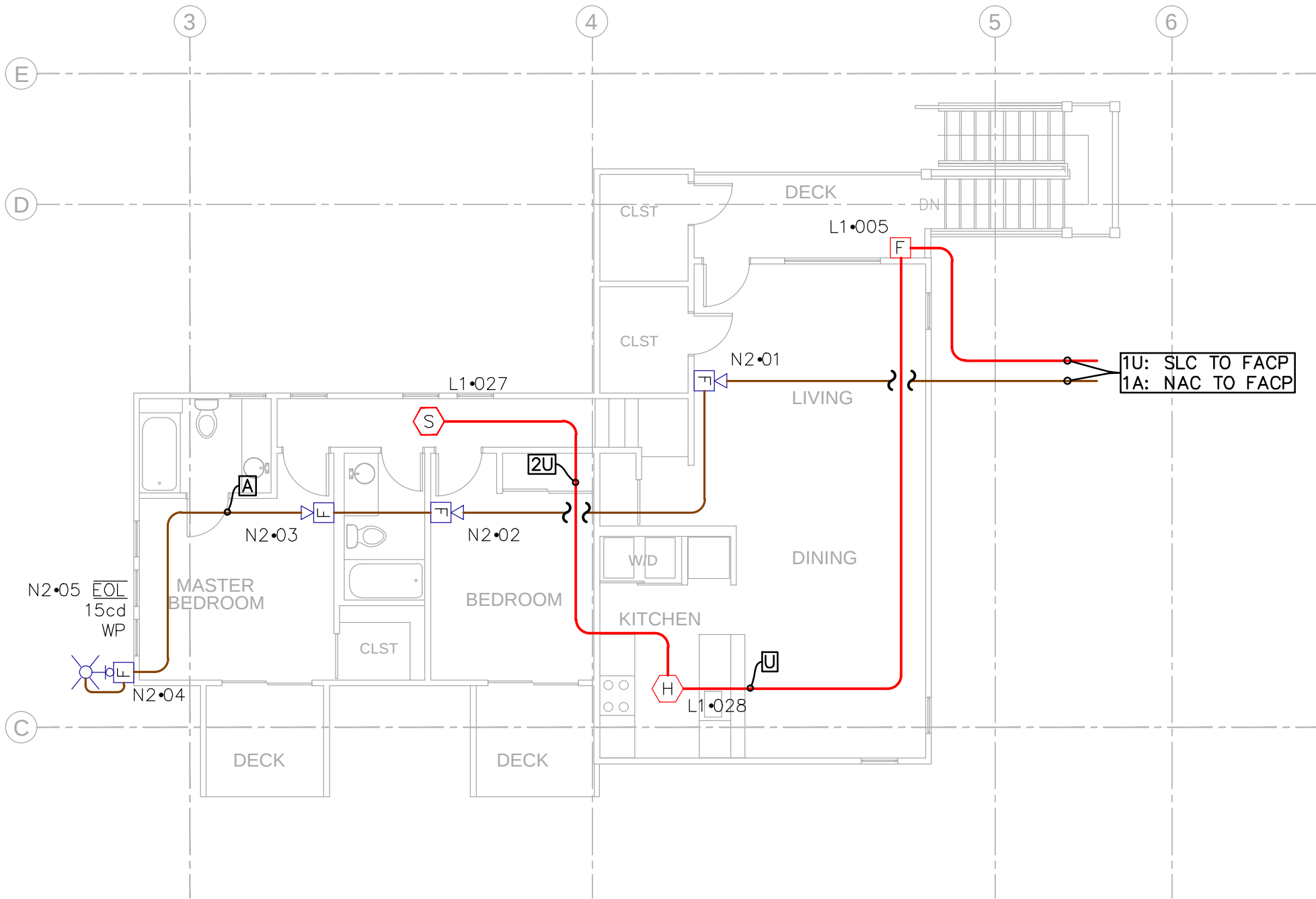
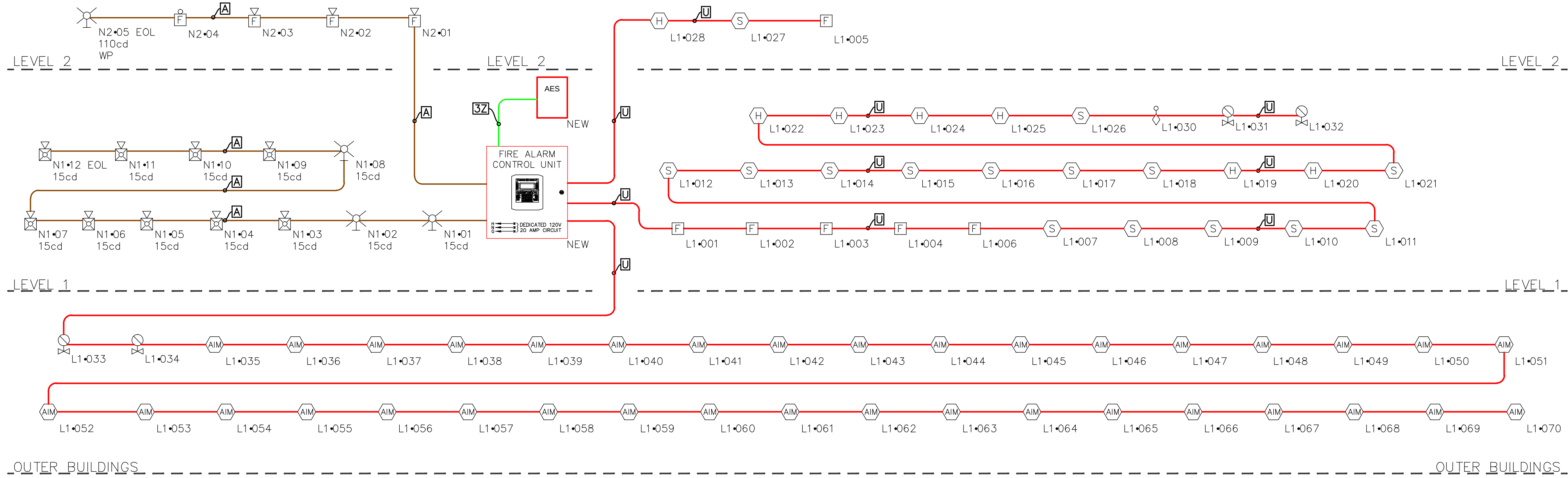




CABLE AND WIRE LEGEND - *ALL WIRING IS EXISTING*					
LINE TYPE	LABEL	CABLE TYPE	AWG	RESIST. (Ω/KFT)	DESCRIPTION
	A	14/2 FPLR	14	3.07	NOTIFICATION APPLIANCE CIRCUIT
	U	18/4 FPLR	18	7.77	SIGNALING LINE CIRCUIT
	Z	18/2 FPLR	18	7.77	IDC / ZONE CIRCUIT (IN RACEWAY)

ALL CONDUCTORS SHALL BE INSTALLED IN RACEWAYS SUITABLE FOR THE INSTALLATION CONDITIONS WHEN REQUIRED BY SBC, SFC, NPFA-72, NFPA-70 (NEC), AND CITY OF SEATTLE'S ELECTRICAL CODE.

2ND FLOOR APT PLAN
SCALE : 1/8" = 1'

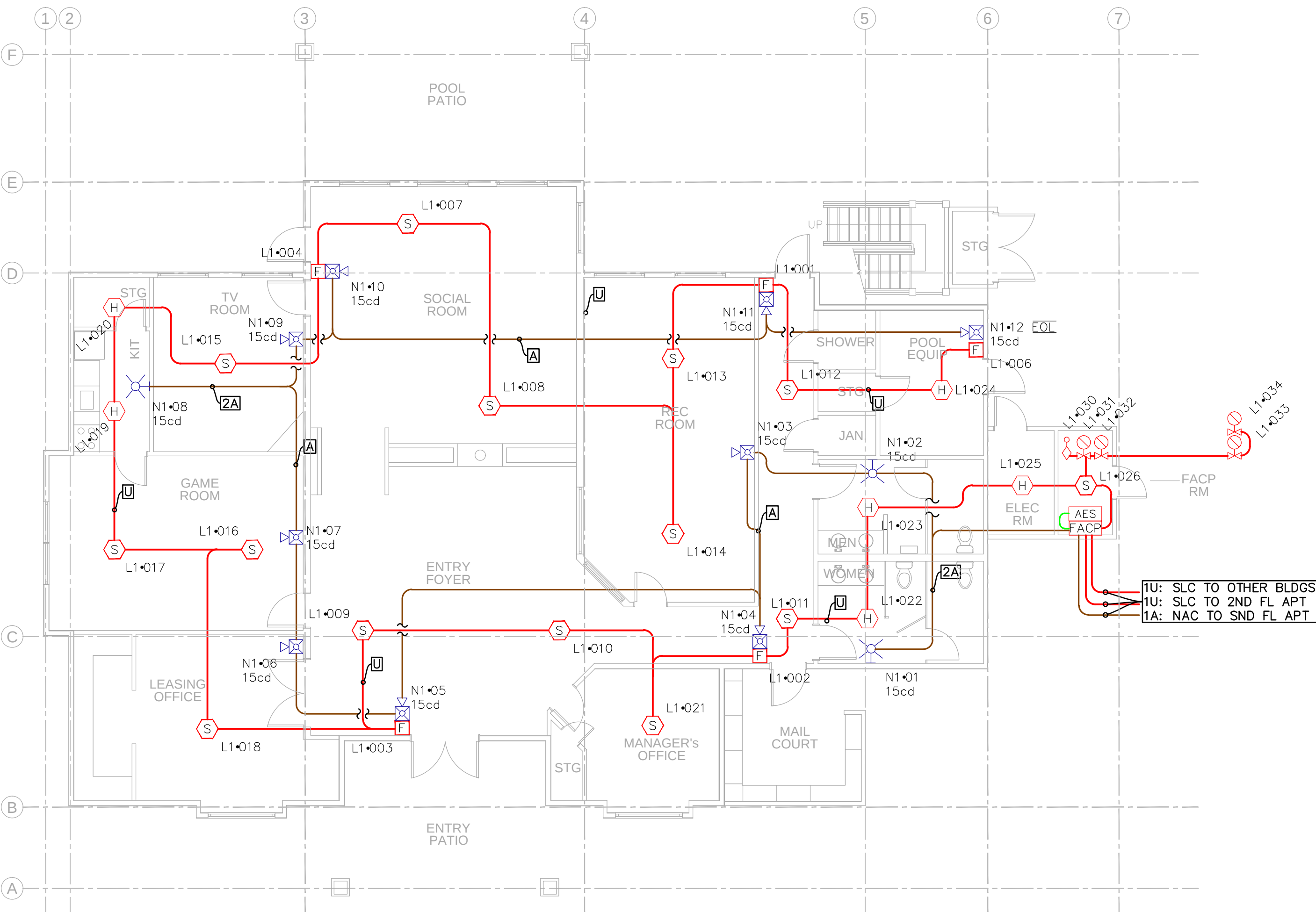
ZONES SENT TO MONITORING FROM FACP

BATTERY CALCULATIONS & POINT TO POINT VOLTAGE DROP

#	MONITORING ZONES FOR NEW FACP
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- BUILDING P PULL STATIONS
- BUILDING P SMOKES
- BUILDING P HEATS
- BUILDING P FACP SMOKE
- BUILDING P DRY FLOW
- BUILDING P LOW AIR
- BUILDING P DRY TAMPER
- BUILDING P PIV
- BUILDING P VAULT TAMPERS
- BUILDING Q FIRE ALARM
- BUILDING Q SUPERVISORY
- BUILDING Q TROUBLE
- BUILDING U FIRE ALARM
- BUILDING U SUPERVISORY
- BUILDING U TROUBLE
- BUILDING W FIRE ALARM
- BUILDING W SUPERVISORY
- BUILDING W TROUBLE
- BUILDING Z FIRE ALARM
- BUILDING Z SUPERVISORY
- BUILDING Z TROUBLE
- BUILDING V FIRE ALARM
- BUILDING V SUPERVISORY
- BUILDING V TROUBLE
- BUILDING AA FIRE ALARM
- BUILDING AA SUPERISORY
- BUILDING AA TROUBLE
- BUILDING Y FIRE ALARM
- BUILDING Y SUPERVISORY
- BUILDING Y TROUBLE
- BUILDING X FIRE ALARM
- BUILDING X SUPERVISORY
- BUILDING X TROUBLE
- BUILDING BB FIRE ALARM
- BUILDING BB SUPERVISORY
- BUILDING BB TROUBLE
- BUILDING T FIRE ALARM
- BUILDING T SUPERVISORY
- BUILDING T TROUBLE
- BUILDING S FIRE ALARM
- BUILDING S SUPERVISORY
- BUILDING S TROUBLE
- BUILDING R FIRE ALARM
- BUILDING R SUPERVISORY
- BUILDING R TROUBLE

PANEL (6808 (SD)) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
					STANDBY CURRENT		SECONDARY ALARM CURRENT				
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)			
PANEL COMPONENTS					1	6808 (SD)	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SD PROTOCOL	0	0	0	0
					1	6808 MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD SD PROTOCOL	0.17	0.17	0.365	0.365
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION		CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)		
L1		1	PS-SA W/SD500-MM	CONVENTIONAL SA MANUAL PULL STATION		0.00055	0.00055	0.00055	0.00055		
		36	SD500-MM	ADDRESSABLE MINIATURE INPUT MODULE		0.00055	0.0198	0.00055	0.0198		
		5	SD500-PS	ADDRESSABLE MANUAL PULL STATION		0.00055	0.00275	0.00055	0.00275		
		8	SD505-AHS	ADDRESSABLE HEAT DETECTOR		0.00055	0.0044	0.00055	0.0044		
		15	SD505-APS	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR		0.00055	0.00825	0.00055	0.00825		
		4		TAMPER SWITCH W/SD500-MM	TAMPER SWITCH		0.00055	0.0022	0.00055	0.0022	
N1		1	WATERFLOW SWITCH W/SD500-MM	WATERFLOW		0.00055	0.00055	0.00055	0.00055		
		9	P2R	2-WIRE, HORN STROBE, RED 15CD		0	0	0.088	0.7920		
		3	SR	STROBE, RED 15CD		0	0	0.071	0.213		
		3	MHR	MINI-HORN, RED		0	0	0.017	0.051		
		1	SRK	STROBE, STANDARD CD, OUTDOOR 15CD		0	0	0.071	0.071		
		1	SSV120-6	ALARM BELL 6" 24VDC, RED		0	0	0.053	0.053		
					TOTAL STANDBY (A)		0.2085	TOTAL ALARM (A)		1.58	
					REQUIRED STANDBY TIME (HOURS)			24		5	
					REQUIRED ALARM TIME (MINUTES)			0.083		0.132	
SECONDARY STANDBY LOAD (A)							0.2085			5.00	
SECONDARY ALARM LOAD (A)							1.58			0.132	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)								5.14		1.25	
DERATING FACTOR										6.42	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)											
PROVIDE (2) 12V 7AH BATTERIES											
N1 POINT-TO-POINT REPORT											
				MAX. CIRCUIT CURRENT (A):	3	CURRENT SUMMARY		POWER SUMMARY			
						TOTAL CIRCUIT CURRENT (A):	1.01	STARTING CALC. VOLTAGE:	20.40	MAX. VOLTAGE DROP:	0.950
				MAX. CARD CURRENT (A):	n/a	SPARE CIRCUIT CURRENT (A):	2.00	MIN. OPERATIONAL VOLTAGE:	16	VOLTAGE DROP %:	4.67 %
						TOTAL CIRCUIT CURRENT %:	66.50 %	WIRE RESISTANCE (Ω/KFT):	3.07	END OF LINE VOLTAGE:	19.45
				CIRCUIT WIRING PROPERTIES: 14/2 FPLP/R (NAC) 60993B 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED	n/a	SPARE CIRCUIT CURRENT (A):	1.22	TOTAL CIRCUIT LENGTH (FT):		284	
						SPARE CARD CURRENT (A):	0.088	TOTAL CIRCUIT RESISTANCE (Ω):		1.75	
				CIRCUIT WIRING PROPERTIES: 14/2 FPLP/R (NAC) 60993B 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED	n/a	SPARE CARD CURRENT (A):	0.088				
						SPARE CARD CURRENT %:	0.088				
DEVICE LABEL	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	REMAINING ALARM CURRENT (A)	DISTANCE FROM PREVIOUS (F)	RESISTANCE FROM PREVIOUS (Ω)	VOLTAGE DROP FROM PREVIOUS	VOLTAGE AT DEVICE	TOTAL VOLTAGE DROP	VOLTAGE DROP PERCENT
N1-01	SR	STROBE, RED 15CD	0.071	1.01	0.941	34	0.206004	0.21	20.19	0.21	1.01 %
N1-02	SR	STROBE, RED 15CD	0.071	0.934	0.863	20	0.123421	0.12	20.08	0.32	1.58 %
N1-03	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.863	0.775	12	0.075503	0.07	20.01	0.39	1.90 %
N1-04	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.775	0.687	20	0.121471	0.09	19.92	0.48	2.36 %
N1-05	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.687	0.590	42	0.25862	0.18	19.74	0.660	3.23 %
N1-06	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.590	0.511	17	0.103998	0.06	19.68	0.720	3.54 %
N1-07	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.511	0.423	11	0.065914	0.03	19.64	0.760	3.70 %
N1-08	SR	STROBE, RED 15CD	0.071	0.423	0.352	30	0.183297	0.08	19.57	0.830	4.08 %
N1-09	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.352	0.264	20	0.120921	0.04	19.52	0.880	4.28 %
N1-10	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.264	0.176	9	0.054354	0.01	19.51	0.890	4.36 %
N1-11	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.176	0.088	45	0.27791	0.05	19.46	0.940	4.60 %
N1-12 EOL	P2R	2-WIRE, HORN STROBE, RED 15CD	0.088	0.088	0.088	25	0.154605	0.01	19.45	0.950	4.67 %
CALCULATION METHODS:											
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)											
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)											
N2 POINT-TO-POINT REPORT											
				MAX. CIRCUIT CURRENT (A):	3	CURRENT SUMMARY		POWER SUMMARY			
						TOTAL CIRCUIT CURRENT (A):	0.175	STARTING CALC. VOLTAGE:	20.40	MAX. VOLTAGE DROP:	0.12
				MAX. CARD CURRENT (A):	n/a	SPARE CIRCUIT CURRENT (A):	2.83	MIN. OPERATIONAL VOLTAGE:	16	VOLTAGE DROP %:	0.59 %
						TOTAL CIRCUIT CURRENT %:	94.17 %	WIRE RESISTANCE (Ω/KFT):	3.07	END OF LINE VOLTAGE:	20.28
				CIRCUIT WIRING PROPERTIES: 14/2 FPLP/R (NAC) 60993B 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED	n/a	SPARE CIRCUIT CURRENT (A):	1.22	TOTAL CIRCUIT LENGTH (FT):		125	
						SPARE CARD CURRENT (A):	0.088	TOTAL CIRCUIT RESISTANCE (Ω):		0.767	
				CIRCUIT WIRING PROPERTIES: 14/2 FPLP/R (NAC) 60993B 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED	n/a	SPARE CARD CURRENT (A):	0.088				
						SPARE CARD CURRENT %:	0.088				
DEVICE LABEL	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	REMAINING ALARM CURRENT (A)	DISTANCE FROM PREVIOUS	RESISTANCE FROM PREVIOUS (Ω)	VOLTAGE DROP FROM PREVIOUS	VOLTAGE AT DEVICE	TOTAL VOLTAGE DROP	VOLTAGE DROP PERCENT
N2-01	MHR	MINI-HORN, RED 15CD	0.017	0.175	0.158	65	0.3991	0.07	20.33	0.07	0.34 %
N2-02	MHR	MINI-HORN, RED 15CD	0.017	0.158	0.141	27	0.165317	0.03	20.30	0.1	0.47 %
N2-03	MHR	MINI-HORN, RED 15CD	0.017	0.141	0.124	7	0.04066	0.01	20.30	0.1	0.50 %
N2-04	SSV120-6	ALARM BELL 6" 24VDC, RED 15CD	0.053	0.124	0.071	25	0.150649	0.02	20.28	0.12	0.59 %
N2-05 EOL	SRK	STROBE, STANDARD CD, OUTDOOR 15CD	0.088	0.071	0.071	2	0.01175	0	20.28	0.12	0.50 %
CALCULATION METHODS:											
RESISTANCE FROM PREVIOUS (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X DIST. FROM PREVIOUS (FT)											
VOLTAGE DROP FROM PREVIOUS = RESISTANCE FROM PREVIOUS (Ω) X REMAINING CURRENT (A)											



1ST FLOOR PLAN
SCALE : 1/8" = 1'



DRAWN BY: NICK CHANDLER, AET NICET III - #148121
CHECKED BY: DAVID NOW, AET NICET IV - #126904
SEATTLE FIRE DEPT. - NSCP - C 9955
PROPERTY OF / ALL RIGHTS RESERVED F.P.I.
DAVID NOW:

REVISION RECORD

DATE / DESCRIPTION

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

DATE: 02.03.25

PROJECT NAME

RIVER TRAIL APARTMENTS
1715 EAST MAIN AVE
PUYALLUP, WA 98372

SHEET TITLE

FIRE ALARM BUILDING A
FLOOR PLAN, BATTERY CALCS,
POINT TO POINT VOLT DROP,
&
MONITORING ZONES

SINGLE LINE RISER DIAGRAM

SHEET NUMBER