



Western Development Zone Utilities Relocation

LiRo Contract Number L145

## **BID ADDENDUM NO. 1**

To: Proposers

From: Michael Mascio, Project Manager

Date: March 10, 2023

Subject: Bid Addendum No. 1

Reference: Western Development Zone Utilities Relocation Request for Proposal, LiRo Contract No. L145

Intent: **This addendum is a part of the Contract Documents and modifies the original RFP Documents. Acknowledge receipt of this addendum by initialing in the space provided below and returning a copy with your proposal. Failure to do so may result in disqualification of proposing company.**

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**Please find attached Addendum #1. These drawings are intended to fully replace the Electrical drawings originally included in the RFP.**

- E-001 – Electrical Cover Sheet and General Notes
- E-101 – Electrical Utility Relocation Plans
- E-102 – Electrical Utility Relocation Plans
- E-103 – Electrical Utility Relocation Plans
- E-501 – Electrical Details
- E-601 – Electrical One Line Diagrams

Drawings can be accessed with the following link:

<https://thelirogroup.sharefile.com/d-s6d4c53b306194e93836d5bbd30defa57>

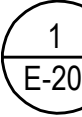

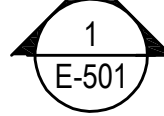


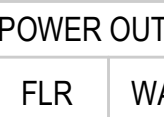







































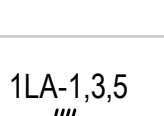
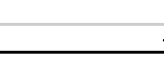
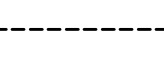
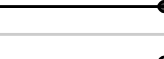
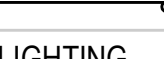
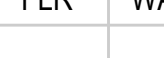

















Principal Initials: \_\_\_\_\_



















































ABBREVIATIONS

-A-		F	FAHRENHEIT
ADDL	ADDITIONAL	FA	FIRE ALARM
AFF	ABOVE FINISHED FLOOR	FAAP	FIRE ALARM ANNUNCIATOR PANEL
AMP	AMPERE	FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR	FC	FOOTCANDLE
APPD	APPROVED	FDR	FEEDER
APPX	APPENDIX	FLEX	FLEXIBLE
ARCH	ARCHITECT	FLR	FLOOR
ATCH	ATTACHMENT	FLUOR	FLUORESCENT
ATS	AUTOMATIC TRANSFER SWITCH	FR	FIRE RATING
AUTO	AUTOMATIC	FREQ	FREQUENCY
AUX	AUXILIARY	FT	FOOT / FEET
AV	AUDIO VISUAL	FU	FUSE
AVG	AVERAGE	FU SW	FUSED SWITCH
AWG	AMERICAN WIRE GAUGE	FUT	FUTURE
-B-		-G-	
BAS	BUILDING AUTOMATION SYSTEM	G	GROUND
BAT	BATTERY	GC	GENERAL CONTRACTOR
BFF	BELOW FINISH FLOOR	GEN	GENERATOR
BKGD	BACKGROUND	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
BLDG	BUILDING	-H-	
BLW	BELOW	HP	HORSEPOWER
BOS	BOTTOM OF STEEL	HZ	HERTZ
BOT	BOTTOM	-J-	
BRKR	BREAKER	JB	JUNCTION BOX
BSMT	BASEMENT	-L-	
BSTR	BOOSTER	LTG	LIGHTING
BTWN	BETWEEN	LV	LOW VOLTAGE
-C-		-M-	
CAB	CABINET	MAX	MAXIMUM
CAP	CAPACITOR	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MCC	MOTOR CONTROL CENTER
CCTV	CLOSED CIRCUIT TELEVISION	MECH	MECHANICAL
CD	CONSTRUCTION DOCUMENT	MIN	MINIMUM
CERT	CERTIFY	MV	MEDIUM VOLTAGE
CH	CHILLER	-N-	
CHK	CHECK	NC	NORMALLY CLOSED
CKT	CIRCUIT	NEUT	NEUTRAL
CL	CENTER LINE / CLOSE	NO	NORMALLY OPEN, NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CONC	CONCRETE	-P-	
CONN	CONNECT	P	POLE
COOR	COORDINATE	PB	PULL BOX
CORR	CORRIDOR	PH	PHASE
CP	CONTROL PANEL	PNL	PANEL
CR	CONTROL RELAY	PWR	POWER
CS	CONTROL SWITCH		
CTRL	CONTROL	(R)	REMOVE
CTV	CABLE TELEVISION	REC	RECESSED
-D-		RECPT	RECEPTACLE
(D)	EXISTING TO BE DEMOLISHED	REQD	REQUIRED
DC	DIRECT CURRENT	RM	ROOM
DDC	DIRECT DIGITAL CONTROL	-S-	
DEF	DEFINITION	SCHED	SCHEDULE
DEG	DEGREE	SD	SMOKE DETECTOR
DEG F	DEGREES FAHRENHEIT	SECT	SECTION
DEMO	DEMOLITION	SPEC	SPECIFICATION
DESCR	DESCRIPTION	SPKR	SPEAKER
DET	DETAIL	SWBD	SWITCHBOARD
DGTL	DIGITAL	SWGR	SWITCHGEAR
DIAG	DIAGRAM	SYS	SYSTEM
DIM	DIMENSION	-T-	
DIR	DIRECTION	TEL.COM	TELECOMMUNICATIONS
DISC	DISCONNECT	TV	TELEVISION
DISCH	DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
DISTR	DISTRIBUTION PANEL	TYP	TYPICAL
PNL		-U-	
DIV	DIVISION	UC	UNDERCOUNTER
DMR	DIMMER	UGND	UNDERGROUND
DS	DISCONNECT SWITCH	UL	UNDERWRITERS LABORATORIES
DWG	DRAWING	UON	UNLESS OTHERWISE NOTED
-E-		UPS	UNINTERRUPTIBLE POWER SUPPLY
(E)	EXISTING TO REMAIN	UTIL	UTILITY
(ER)	EXSTING TO BE RELOCATED	-V-	
EA	EACH	V	VOLT
EH	ELECTRIC HEATER	VA	VOLT AMPERE
EL	ELEVATION	VFD	VARIABLE FREQUENCY DRIVE
ELEC	ELECTRIC	VHO	VERY HIGH OUTPUT
EMER	EMERGENCY	VOLT	VOLTAGE
ENVIR	ENVIRONMENT	-W-	
EPO	EMERGENCY POWER OFF	W	WATT OR WIRE
EQ	EQUAL	W/	WITH
EQUIP	EQUIPMENT	WO	WITHOUT
EQUIV	EQUIVALENT	WP	WEATHERPROOF
EX	EXAMPLE	-X-	
EXCL	EXCLUDE	XFER	TRANSFER
EXH FN	EXHAUST FAN	XFMR	TRANSFORMER
EXIST	EXISTING		
EXT	EXTERNAL		
-F-			

SYMBOLS LEGEND

ANNOTATION					
	TITLE SCALE: NTS		TITLE MARK DETAIL OR PLAN NO. - 1 FOUND IN E-201		
	DETAIL REFERENCE DETAIL NO. - 1 FOUND IN E-501				
	SECTION MARK SECTION NO. - 1 FOUND IN E-501				
	SHEET KEYNOTE				
	REVISION CLOUD (DELTA 1)				
	DETAIL BOUNDARY B DETAIL NO. - 2				
LP4-12 PANEL CIRCUIT					
POWER OUTLETS					
FLR	WALL	CLG			
			DUPLEX		
			QUADRUPLEX		
			GFCI DUPLEX		
			SIMPLEX		
			EMERGENCY DUPLEX		
			EMERGENCY QUADRUPLEX		
			EMERGENCY SIMPLEX		
	X		FLOOR BOX "X" - (DESCRIBE AND SPEC BOX)		
	J		JUNCTION BOX		
	A		POKE THRU		
	CTR		COUNTERTOP DUPLEX		
	G		ISOLATED GROUND DUPLEX		
	G		ISOLATED GROUND SIMPLEX		
	XP		EXPLOSION PROOF DUPLEX		
	XP		EXPLOSION PROOF SIMPLEX		
			SPLIT WIRE		
			SPECIAL OUTLET		
			MULTI OUTLET SURFACE RACEWAY		
WIRING					
			3/4" CONDUIT WITH 2#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
			3/4" CONDUIT WITH 3#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
			3/4" CONDUIT WITH 4#12 WIRES, UON, GROUND WIRE NOT SHOWN.		
	1LA-1,3,5		CONDUIT HOMERUN TO PANEL BOARD 1LA WITH CIRCUIT 1,3,5		
			CAPPED CONDUIT		
			CONDUIT RUN UNDERGROUND OR UNDER THE FLOOR SLAB		
			CONDUIT TURNING DOWN		
			CONDUIT TURNING UP		
			CONDUIT BREAK		
LIGHTING					
FLR	WALL	CLG			
			RECESSED DOWNLIGHT		
			1X4 SURFACE MOUNTED LIGHT		
			2X4 SURFACE MOUNTED LIGHT		
			4FT WALL MOUNTED LIGHT		
			1X4 EMERGENCY LIGHT		
			2X4 EMERGENCY LIGHT		
			2X4 RECESSED LIGHT		
			EXIT SIGN 1 FACE		
			EXIT SIGN 1 FACE LEFT ARROW		
			EMERGENCY BATTERY PACK		
			EMERGENCY BATTERY PACK W/ EXIT SIGN		
SWITCHES/CONTROLS					
FLR	WALL	CLG			
			LIGHT SWITCH - TIME OPERATED		

				LIGHT SWITCH - SINGLE POLE
				LIGHT SWITCH - THREE WAY
				LIGHT SWITCH - KEY OPERATED
FLR	WALL	CLG		LIGHT SWITCH - WITH PILOT LIGHT
				SWITCH - WITH THERMAL OVERLOAD
				DIMMER
				OCCUPANCY SENSOR
				PHOTOCELL
				OCCUPANCY SENSOR POWER PACK
				OVERRIDE SWITCH
POWER				
				DISTRIBUTION BOARD
				RECESSED PANEL
				SURFACE MOUNTED PANEL
				TRANSFORMER
				DISCONNECT SWITCH
				SWITCH - MOTOR RATED
				FUSED DISCONNECT SWITCH
				MAGNETIC MOTOR STARTER
				STARTER - DISCONNECT SWITCH
				MOTOR
				RELAY
				VARIABLE FREQUENCY DRIVE
				PULL BOX
				CABLE TRAY
SINGLE LINE DIAGRAM				
				CIRCUIT BREAKER SWITCH
				FUSE - INLINE
				FUSE SWITCH
				FUSED - SWITCH BUS PLUG
				CIRCUIT BREAKER - ENCLOSED
				KIRK KEY INTERLOCK
				BUSDUCT
				SWITCHGEAR BUSWAY
				GROUND FAULT RELAY
				AMMETER
				DIGITAL METER UON
				TRANSFORMER - DELTA WYE-GROUNDED
				ATS - 3-POLE UON BP - WITH BYPASS ISOLATION
				BATTERY
				GENERATOR
				PANEL
				2000 = AMPACITY 3-NO. 4 SINGLE, 5-DOUBLE = NEUTRAL (+) = ADDITIONAL INFO AS REQUIRED
GROUNDING SYSTEM				
				GROUND TEST WELL
				GROUND CABLE CONNECTION
				GROUND ROD - MIN. 3/4"Ø x 10' LONG
				GROUND PLATE - WALL MOUNT
				GROUND PLATE - FLOOR MOUNT
				AIR TERMINAL - LIGHTNING ARRESTOR
				EQUIPMENT CONNECTION

GENERAL NOTES

- LEGEND AND GENERAL NOTES SHOWN ON THIS DRAWING APPLY TO ALL ELECTRICAL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL CONTRACT DRAWINGS FOR ADDITIONAL NOTES.
- WORK SHALL COMPLY WITH ALL GOVERNING CODES, STANDARDS, AND ADVISORIES INCLUDING ALL UPDATES AND AMENDMENTS BY GOVERNING AGENCIES HAVING JURISDICTION, UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS. THESE STANDARDS INCLUDE, BUT ARE NOT LIMITED TO LATEST REQUIREMENTS OF THE NYC BUILDING CODE, FIRE PREVENTION CODE, NEC, NFPA, UL, NEW YORK CITY ENERGY CONSERVATION CONSTRUCTION CODE AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
- THE WORD "CONTRACTOR" SHALL MEAN THE PARTY OR PARTIES THAT HAVE BEEN DULLY AWARDED THE CONTRACT FOR AND THEREBY MADE RESPONSIBLE FOR THE WORK AND COORDINATION OF WORK BETWEEN VARIOUS TRADES, AS DESCRIBED HEREIN.

THE WORD "OWNER" SHALL MEAN BUILDING/FACILITY OWNER, LANDLORD, MANAGER AND/OR FACILITY ENGINEER WHO ARE RESPONSIBLE FOR BUILDING INTEGRITY AND MAINTENANCE.

THE WORD "ENGINEER," "ARCHITECT," "OWNER'S REPRESENTATIVE" SHALL MEAN THE PARTY OR PARTIES RESPONSIBLE FOR INTERPRETING, ACCEPTING AND OTHERWISE RULING ON THE PERFORMANCE OF THIS CONTRACT.

THE WORD "FACILITY" SHALL MEAN THE BUILDING OR AREA OF WORK OF THIS PROJECT.

THE PHRASES "REMOVE AND REPLACE" OR "REMOVE AND INSTALL" SHALL MEAN REMOVE EXISTING CONSTRUCTION AND REPLACE WITH NEW CONSTRUCTION MATERIALS OR EQUIPMENT AS NOTED ON THE DRAWINGS AND/OR SPECIFIED.

- LIGHT LINE WORK INDICATES EXISTING ELECTRICAL MATERIALS AND EQUIPMENT TO REMAIN. MATERIALS AND EQUIPMENT, EXISTING OR FURNISHED AND INSTALLED UNDER THIS CONTRACT, AS SHOWN ON OTHER THAN ELECTRICAL DRAWINGS ARE ALSO SHOWN IN LIGHT LINES.

HEAVY LINE WORK INDICATES ELECTRICAL MATERIALS AND EQUIPMENT TO BE FURNISHED AND/OR INSTALLED OR EXISTING ELECTRICAL INSTALLATION TO BE MODIFIED, ADJUSTED AND/OR REINSTALLED AS SHOWN ON THE ELECTRICAL DRAWINGS. HEAVY LINE WORK ALSO INDICATES EQUIPMENT SPECIFIED AND SHOWN ON OTHER THAN ELECTRICAL DRAWINGS BUT SHALL BE INSTALLED, CONNECTED AND/OR COMMISSIONED AS PER ELECTRICAL CONTRACT DRAWINGS.

- IN CASE OF CONFLICTING INFORMATION BETWEEN THE CONTRACT SPECIFICATION AND THESE ELECTRICAL DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW THE FULL EXTENT OF EXISTING CONDITIONS, BUT RATHER TO SHOW THE GENERAL ARRANGEMENT AND LOCATION OF THE SYSTEMS.
- DETERMINE EXACT LOCATIONS AND RELATIONSHIPS IN THE FIELD. VERIFY BY FIELD MEASUREMENTS ALL DIMENSIONS, ELEVATIONS AND CONDITIONS THAT MAY BE REQUIRED TO LOCATE, ALIGN, DIMENSION AND DETAIL THE CONSTRUCTION WITHIN SPECIFIED TOLERANCES AS SHOWN ON CONTRACT DRAWINGS. PERFORM FIELD SURVEY NECESSARY TO DETERMINE THE ROUTING AND LOCATION OF RACEWAYS AND EQUIPMENT.
- SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH FIELD VERIFICATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS WHICH COULD HAVE BEEN FORESEEN HAD SUCH A VERIFICATION BEEN MADE.
- NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DRAWINGS. SPECIFICATIONS OF ANY CONDITION THAT WOULD PRECLUDE PERFORMANCE OF THE WORK AS SHOWN. NO CHANGE IN THE CONTRACT DRAWINGS, DETAILS OR DIMENSIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- THE FIELD MEASUREMENTS SHALL BE CONFIRMED PRIOR TO THE PREPARATION OF SHOP DRAWINGS AND THE MANUFACTURING, FABRICATION AND INSTALLATION OF ALL ITEMS OF CONSTRUCTION. ALL VARIATIONS FROM THE CONTRACT DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE PREPARATION OF SHOP DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, STORING, UNCRATING, SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL EQUIPMENT PROVIDED BY THE CONTRACTOR OR PROVIDED BY OTHER PARTIES TO THE CONTRACTOR FOR INSTALLATION BY THE CONTRACTOR.

- COORDINATE WORK SHOWN ON ELECTRICAL DRAWINGS WITH WORK INDICATED ON OTHER CONTRACT DRAWINGS AND WITH WORK OF OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS PROJECT INSTALLATION.

- PRIOR TO INSTALLATION, SUBMIT TO THE ENGINEER DIMENSIONED INSTALLATION LAYOUT DRAWINGS FOR APPROVAL.
- AT THE COMPLETION OF EACH WORK DAY, REMOVE ALL DEBRIS, EQUIPMENT AND UNUSED MATERIAL FROM THE PROPERTY.
- CARRY OUT ALL WORK WITH NO INTERFERENCE TO FACILITY OPERATIONS. ANY INTERRUPTIONS TO FACILITY OPERATIONS SHALL BE AUTHORIZED BY THE ENGINEER. START WORK ON ANY LIMITED ACCESS AREAS WHEN ALL MATERIALS ARE ON SITE. ANY WORK WHICH RESULTS IN NOISE AFTER 5 PM AND PRIOR 8 AM SHALL BE AUTHORIZED BY THE ENGINEER.
- RESTORE TO ORIGINAL CONDITION ALL EXISTING SYSTEMS AND AREAS THAT ARE DAMAGED BY WORK UNDER THIS CONTRACT AS THE RESULT OF THE CONTRACTOR'S OPERATION TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE OWNER.
- REMOVE ELECTRIC PANELS COVERS FOR THE DURATION OF WORK PERFORMED IN THE PANEL. REPLACE COVERS AT THE COMPLETION OF EACH WORK DAY.
- MAINTAIN SERVICE CONTINUITY OF AN EXISTING TO-BE-REVISED CIRCUIT/FEED IF THAT CIRCUIT/FEED SERVES THE AREA OUTSIDE OF THE PROJECT WORK AREA. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT/FEED BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT/FEED SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT/FEED AFFECTED BY THIS ALTERATION.

- FINAL ACCEPTANCE WILL BE MADE UPON DEMONSTRATION THAT THE WORK FULFILLS ALL REQUIREMENTS OF THE PLANS AND SPECIFICATIONS INCLUDING FURNISHING ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.
- AFTER COMPLETION OF INSTALLATION





SHEET NOTES/ENTIRE SHEET:	
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3.1. IT'S ANTICIPATED THAT THE SHUTDOWN OF CAPE HART, YY AND ZZ WILL BE REQUIRED, ALL OF WHICH CAN BE ISOLATED IN BUILDING 130 SWITCHGEAR. PROVIDE A TRAINING AND PROTECTION SYSTEM CONSISTING OF A THREE (3) RACK COUNTERPOISE THRU WITH 10 SEPARATION AROUND THE RACKS TO BE TRANSFORMED

6. ALL FEEDERS PULLED/MODIFIED ARE TO BE TESTED INCLUDING ALL NEW OR MODIFIED SPLICES. PERFORM TESTING FROM UPSTREAM LOCATIONS IF REQUIRED. TESTING IS TO BE PERFORMED BY A NETA CERTIFIED ELECTRICIAN IN ACCORDANCE TO NETA REQUIREMENTS FOR EACH EQUIPMENT (CABLES, TRANSFORMERS, SWITCHES AND

8. LOAD CENTER 6 LOADS, FEEDING COLLECTIVE RETREATS, ARE TO BE EXTENDED TO THE NEW LOCATION OF LOAD CENTER. INTERCEPT POINT TO BE COORDINATED.

REPLACE DAMAGED  
MANHOLE  
COVER

SS-15A(16)

TR-28(25)

ABANDON EXISTING FEED TO [diagram symbol] AND PLACE NEW MANHOLE. PROVIDE LIVE END-CAPS FOR [diagram symbol] WHEELER AVENUE Y&Z

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# ELECTRICAL UTILITY RELOCATION PLANS

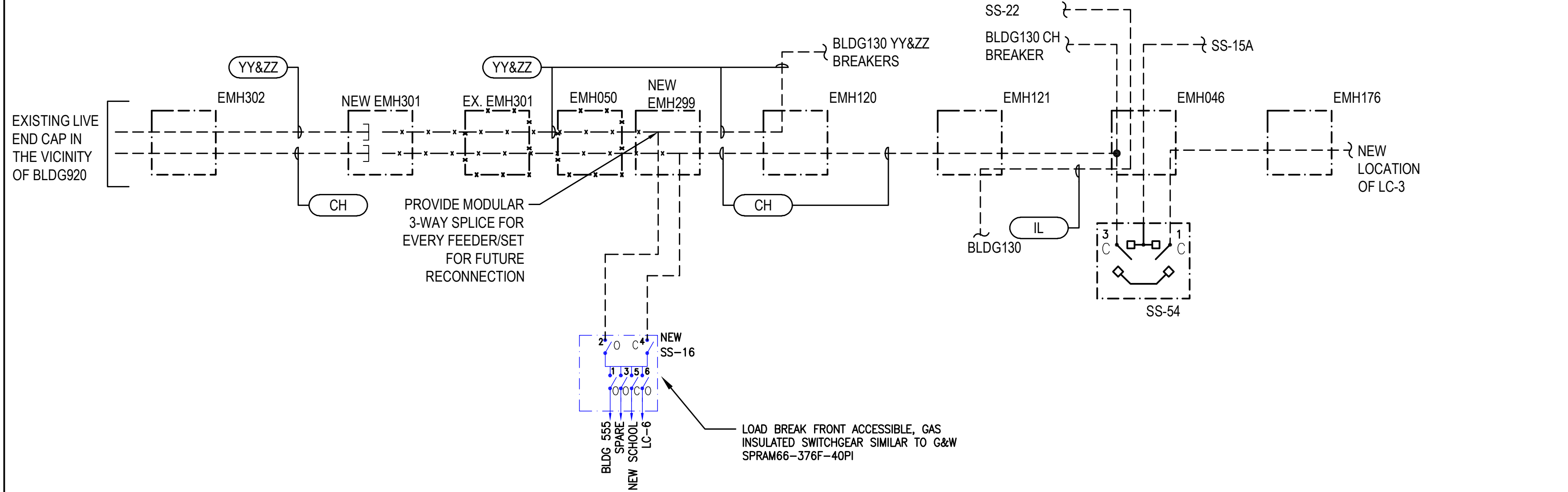






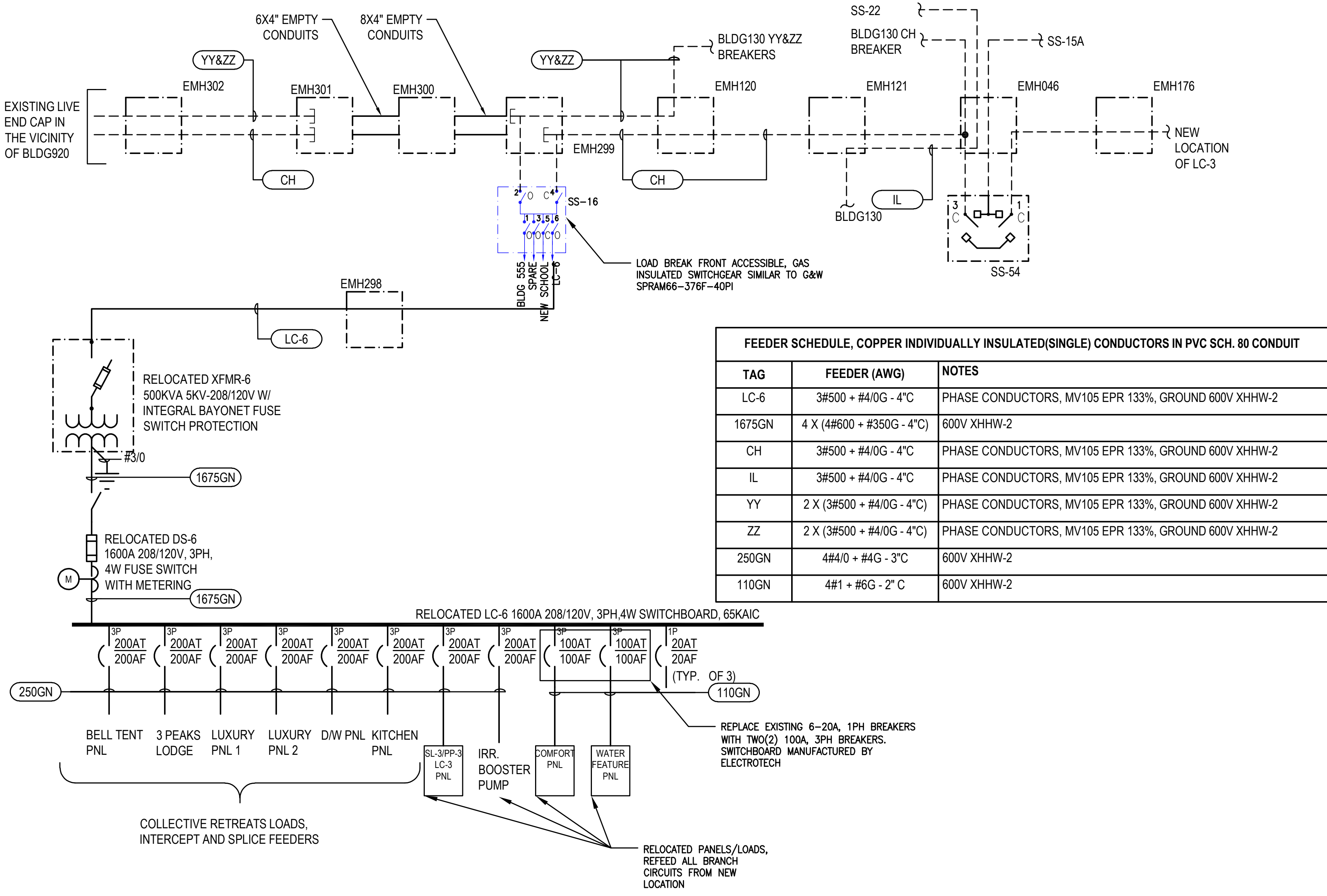






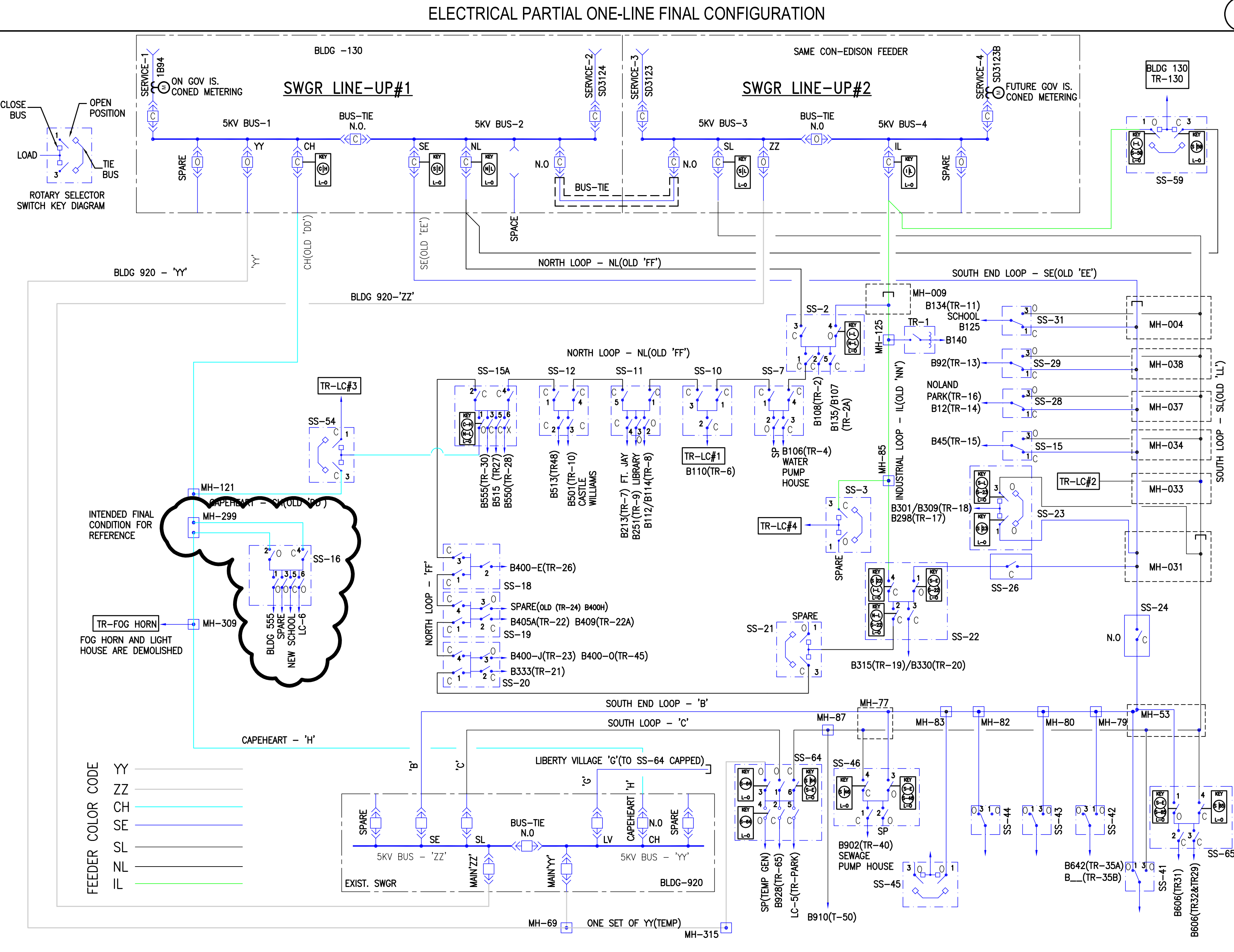
ELECTRICAL PARTIAL ONE-LINE: PHASE 1A

SCALE: NONE  
1



TAG	FEEDER (AWG)	NOTES
LC-6	3#500 + #4/0G - 4°C	PHASE CONDUCTORS, MV105 EPR 133%, GROUND 600V XHHW-2
1675GN	4 X (4#600 + #350G - 4°C)	600V XHHW-2
CH	3#500 + #4/0G - 4°C	PHASE CONDUCTORS, MV105 EPR 133%, GROUND 600V XHHW-2
IL	3#500 + #4/0G - 4°C	PHASE CONDUCTORS, MV105 EPR 133%, GROUND 600V XHHW-2
YY	2 X (3#500 + #4/0G - 4°C)	PHASE CONDUCTORS, MV105 EPR 133%, GROUND 600V XHHW-2
ZZ	2 X (3#500 + #4/0G - 4°C)	PHASE CONDUCTORS, MV105 EPR 133%, GROUND 600V XHHW-2
250GN	4#4/0 + #4G - 3°C	600V XHHW-2
110GN	4#1 + #6G - 2°C	600V XHHW-2

SCALE: NONE  
2



GOVERNORS ISLAND ELECTRICAL DISTRIBUTION (FOR REFERENCE)

SCALE: NONE  
3

OWNER

THE TRUST FOR GOVERNORS ISLAND

CLIENT

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SEAL

PROJECT:

GOVERNORS ISLAND  
SCA UTILITY  
RELOCATION

NO.	DATE	DESCRIPTION
1	2023-03-01	30% DESIGN ISSUANCE
2	2023-02-25	DRAFT ISSUANCE

PROJECT No:

GOV20003

DRAWN BY:

AE

CHECKED BY:

AE

APPROVED BY:

KF

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TITLE:

ELECTRICAL ONE  
LINE DIAGRAMS

NUMBER:

E-601