

CASTLEVIEW WYCHWOOD TOWERS

351 CHRISTIE ST, TORONTO, ONTARIO M6G 3C3

ELECTRICAL DRAWING LIST		
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ELECTRICAL DRAWING
LIST

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E001

LIGHTING LEGEND	
	EXTERIOR POLE LUMINAIRE - REFER TO THE LUMINAIRE SCHEDULE
	CEILING MOUNTED LUMINAIRE - REFER TO THE LUMINAIRE SCHEDULE
	WALL MOUNTED LUMINAIRE - REFER TO THE LUMINAIRE SCHEDULE
	LUMINAIRE CONNECTED TO EMERGENCY POWER CIRCUIT
	PENDANT LUMINAIRE
	WALL WASHER LUMINAIRE
	ACCENT LUMINAIRE
	CEILING/WALL MOUNTED EXIT SIGN. 'X1' 'X55' DENOTES TYPE. REFER TO THE SPECIFICATION
	EMERGENCY LIGHTING REMOTE HEAD(s) CEILING/WALL MOUNTED. REFER TO THE SCHEDULE.
	EMERGENCY LIGHTING BATTERY UNIT c/w TWIST LOCK RECEPTACLE AND HEAD(s) AS INDICATED
	DENOTES EMERGENCY BATTERY PACK NUMBER
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH ['3' DENOTES 3-WAY, 'LV' DENOTES LINE VOLTAGE, 'M' DENOTES MASTER, 'K' DENOTES KEY SWITCH]
	GANGED TOGGLE SWITCHES - 2, 3, 4 GANG
	DIMMER SWITCH ['F' DENOTES FLUORESCENT DIMMER]
	OCCUPANCY SENSOR - CEILING MOUNTED, NUMBER INDICATES TYPE. REFER TO THE SPECIFICATION.
	OCCUPANCY SENSOR - WALL MOUNTED, NUMBER INDICATES TYPE. REFER TO THE SPECIFICATION.
	VACANCY SENSOR - CEILING MOUNTED, NUMBER INDICATES TYPE. REFER TO THE SPECIFICATION.
	VACANCY SENSOR - WALL MOUNTED, NUMBER INDICATES TYPE. REFER TO THE SPECIFICATION.
	MULTI SCENE CONTROLLER
	POWER PACK / POWER SUPPLY c/w POWER CONNECTION
	LIGHTING CONTROL PANEL c/w POWER CONNECTIONS
	LOW VOLTAGE POWER PACK, NORMAL POWER
	LOW VOLTAGE POWER PACK, EMERGENCY POWER
	LOW VOLTAGE POWER PACK, UPS POWER
	6A1-2-Z1 TYPICAL CIRCUIT DESIGNATIONS FOR LIGHTING PANEL IS AS FOLLOWS: CONTROLLED ZONE CIRCUIT NUMBER PANEL DESIGNATION

GENERAL NOTES	
1.	THIS DRAWING IS A MASTER LEGEND DRAWING. SOME SYMBOLS MAY NOT APPEAR WITHIN THE DOCUMENTS NOR BE APPLICABLE TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN A FULL UNDERSTANDING OF THIS LEGEND.
2.	ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, AND MECHANICAL PROJECT DOCUMENTS AT ALL TIMES. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION COMMENCEMENT.
3.	THE ELECTRICAL CONTRACTOR TO TAKE NOTE OF THE DRAWING SCALE[S] AND GOVERN THEMSELVES ACCORDINGLY.

POWER LEGEND	
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	15/20A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE [T-SLOT], WALL MOUNTED
	15A-125V 2P-3W GFI GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED 150mm ABOVE COUNTER TOP
	15A-125V 2P-3W GROUNDED TWO [2] GANGED RECEPTACLES [QUADRUPLEX], WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED - DEDICATED CIRCUIT
	POWER CONNECTION TO FURNITURE SYSTEM, CEILING/FLOOR/WALL MOUNTED
	15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE MOUNTED IN CEILING [SPACE]
	15A-125V-2P-3W GROUNDED DUPLEX RECEPTACLE, MOUNTED WITHIN FLUSH FLOOR BOX. REFER TO THE SPECIFICATIONS.
	15A-125V-2P-3W GROUNDED TWO (2) GANGED RECEPTACLES [QUADRUPLEX], MOUNTED WITHIN FLUSH FLOOR BOX. REFER TO THE SPECIFICATIONS.
	15A-125V-2P-3W GROUNDED DUPLEX RECEPTACLES, MONUMENT SURFACE MOUNTED ON FLOOR. REFER TO THE SPECIFICATIONS.
	120V CONNECTION TO EQUIPMENT
	208V, 1PH CONNECTION TO EQUIPMENT
	208V, 3PH CONNECTION TO EQUIPMENT
	240V, 1PH CONNECTION TO EQUIPMENT
	240V, 3PH CONNECTION TO EQUIPMENT
	DISCONNECT SWITCH
	DISCONNECT SWITCH c/w ANCILLARY CONTACT FOR ELEVATOR CONTROL UNIT
	VARIABLE SPEED CONTROLLER, SUPPLIED BY THE MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR
	VARIABLE FREQUENCY DRIVE, PROVIDED BY THE ELECTRICAL CONTRACTOR
	PUSHBUTTON STATION, SUPPLIED BY OTHERS, SINGLE GANG BACKBOX AND FINAL TERMINATION BY THE ELECTRICAL CONTRACTOR [H/C DENOTES HANDICAPPED DOOR PUSHPLATE]
	EMERGENCY POWER OFF BUTTON c/w CLEAR LEXAN PROTECTIVE COVER
	DOOR OPERATOR SUPPLIED BY OTHERS c/w 120V POWER CONNECTION PROVIDED BY THE ELECTRICAL CONTRACTOR
	ELECTRICAL EQUIPMENT, FLOOR MOUNTED, COMPLETE WITH 103mm HIGH HOUSEKEEPING PAD
	TRANSFORMER [TX], FLOOR MOUNTED, COMPLETE WITH 103mm HIGH HOUSEKEEPING PAD
	PANELBOARD, RECESSED/SURFACE MOUNTED. REFER TO PANELBOARD SCHEDULES.
	PP-2A1 TYPICAL DESIGNATIONS FOR POWER PANEL ARE AS FOLLOWS: FLOOR [B=BASEMENT 1=GROUND FLOOR, 2=SECOND FLOOR, S=SITE] DESIGNATION [A-Z=NORMAL POWER, E,F,X,Y=EMERGENCY POWER, U=UPS] VOLTAGE [2=120/208V, 4=277/480V, 6=347/600V] PP - DENOTES POWER/RECEPTACLE PANEL

SINGLE LINE POWER DISTRIBUTION LEGEND - PART 1	
	AIR CIRCUIT BREAKER (DRAW OUT TYPE)
	AIR CIRCUIT BREAKER (FIXED MOUNTED TYPE)
	CIRCUIT BREAKER (DRAW OUT TYPE)
	CIRCUIT BREAKER (FIXED MOUNTED TYPE)
	GROUND FAULT INTERRUPTER
	UNFUSED DISCONNECT SWITCH
	PANELBOARD c/w CIRCUIT BREAKERS, FEEDER AND PANELBOARD MAIN LUGS
	PANELBOARD c/w CIRCUIT BREAKERS, FEED THROUGH FEEDER ARRANGEMENT AND REQUIRED MAIN PANELBOARD LUGS
	FEEDER
	BUS DUCT
	CABLE BUS WAY
	0 kVA TRANSFORMER c/w COPPER WINDINGS AND CORE 600 V 120/208V

POWER MISCELLANEOUS LEGEND	
SC	DENOTES SEPARATE CIRCUIT
SP	DENOTES SPLIT-WIRED
IG	DENOTES ISOLATED GROUND
GFI	DENOTES GROUNDED FAULT INTERRUPTER
TL	DENOTES TWISTLOCK
WT	DENOTES WATERTIGHT [CSA ENCLOSURE 4]
WP	DENOTES WATERPROOF [CSA ENCLOSURE 3]
EXP	DENOTES EXPLOSION PROOF
CHP	DENOTES CHILDPROOF
TP	DENOTES TAMPER PROOF
HK	DENOTES HOUSEKEEPING
MW	DENOTES MOUNTED IN MILLWORK
F	DENOTES MOUNTED IN SYSTEMS FURNITURE
CH	DENOTES DEVICE MOUNTED 150mm ABOVE COUNTER TOP
c/w	DENOTES COMPLETE WITH
	DENOTES RECESSED/SURFACE MOUNTED JUNCTION BOX (JB)
	DENOTES MECHANICAL EQUIPMENT
E	DENOTES EXISTING ITEM TO REMAIN
R	DENOTES EXISTING ITEM TO BE REMOVED
ER	DENOTES EXISTING ITEM TO BE RELOCATED
RE	DENOTES EXISTING ITEM IN RELOCATED POSITION
RW	DENOTES EXISTING DEVICE PROVIDED WITH NEW WIRING
-----	HIDDEN LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED
EP	DENOTES EMERGENCY POWER
NP	DENOTES NORMAL POWER

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ELECTRICAL LEGEND
AND NOTES - DIVISION
26














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










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
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












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FIRE ALARM SYSTEM LEGEND [DIVISION 28]	
	FIRE ALARM STROBE LIGHT - WALL MOUNTED
	FIRE ALARM STROBE LIGHT - CEILING MOUNTED
	FIRE ALARM SPEAKER - CEILING MOUNTED
	FIRE ALARM SPEAKER - WALL MOUNTED
	FIRE ALARM SPEAKER/STROBE LIGHT - WALL MOUNTED
	FIRE ALARM SPEAKER/STROBE LIGHT - CEILING MOUNTED
	FIRE ALARM MANUAL PULL STATION c/w AUXILIARY CONTACT AND CLEAR LEXAN PROTECTIVE COVER
	FIRE ALARM IONIZATION SMOKE DETECTOR - CEILING MOUNTED
	FIRE ALARM IONIZATION SMOKE DETECTOR - WALL MOUNTED
	FIRE ALARM IONIZATION DETECTOR - DUCT MOUNTED
	FIRE ALARM IONIZATION SMOKE DETECTOR MOUNTED BELOW RAISED FLOOR
	FIRE ALARM IONIZATION SMOKE DETECTOR c/w LOCAL SOUNDER - CEILING MOUNTED
	FIRE ALARM CONNECTION TO SUPERVISED VALVE
	FIRE ALARM CONNECTION TO FLOW SWITCH
	FIRE ALARM CONNECTION TO PRESSURE SWITCH
	FIRE ALARM SYSTEM CONNECTION FOR FAN SHUTDOWN
	FIRE ALARM SYSTEM CONNECTION FOR FAN START-UP
	FIRE ALARM CONNECTION TO SMOKE/FIRE DAMPER c/w POWER CONNECTION
	FIRE ALARM CONNECTION TO ITEM AS INDICATED
	FIRE ALARM SUPERVISORY CONNECTION TO ITEM AS INDICATED
	FIRE ALARM FIREFIGHTER'S HANDSET
	FIRE ALARM CONNECTION TO ELECTRIC DOOR HOLDER. ELECTRIC DOOR HOLDER SUPPLIED BY DIV.8, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR.

TELECOMMUNICATION LEGEND	
	TELECOMMUNICATION OUTLET - WALL MOUNTED c/w 27mm CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY
	DATA OUTLET - WALL MOUNTED c/w 1 x UTP CABLE IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA OUTLET - WALL MOUNTED c/w 2 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA OUTLET - WALL MOUNTED c/w 3 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA OUTLET - WALL MOUNTED c/w 4 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA OUTLET - FLUSH FLOOR MOUNTED c/w 1 x UTP CABLE IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA OUTLET - FLUSH FLOOR MOUNTED c/w 2 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE.
	DATA CONNECTION FEED TO FURNITURE SYSTEM, WALL MOUNTED. [X] - DENOTES NUMBER OF UTP CABLES TO BE PROVIDED
	DATA CONNECTION FEED TO FURNITURE SYSTEM, FLOOR MOUNTED. [X] - DENOTES NUMBER OF UTP CABLES TO BE PROVIDED
	WIRELESS ACCESS POINT [DATA] c/w 2 x UTP CABLES, WALL MOUNTED
	WIRELESS ACCESS POINT [DATA] c/w 2 x UTP CABLES, CEILING MOUNTED
	POWER AND DATA MONUMENT SURFACE MOUNTED ON FLOOR c/w DATA OUTLET
	MULTI-GANG OUTLET BOX, WALL MOUNTED c/w DATA OUTLETS. REFER TO DRAWINGS.

PATIENT WANDERING/INFANT PROTECTION SYSTEM LEGEND	
	PATIENT WANDERING SYSTEM ANTENNA AND RECEIVER UNIT CEILING MOUNTED
	PATIENT WANDERING SYSTEM ANTENNA AND RECEIVER UNIT WALL MOUNTED
	PATIENT WANDERING SYSTEM TAG EXCITER UNIT, CEILING MOUNTED
	PATIENT WANDERING SYSTEM TAG EXCITER UNIT, WALL MOUNTED
	PATIENT WANDERING SYSTEM TAG READER CONTROLLER CEILING MOUNTED
	PATIENT WANDERING SYSTEM TAG READER CONTROLLER WALL MOUNTED
	PATIENT WANDERING SYSTEM STROBE LIGHT CEILING MOUNTED
	SECURITY CONTROLLER UNIT AND RTLS KEYPAD ACCESS CONTROL OVERRIDE c/w 1 x UTP CABLE [RTLS]
	LF EXCITER ANTENNA [RTLS]
	CONSOLIDATION POINT c/w 1 x UTP CABLE [RTLS]
	INFRARED MONITOR [RTLS]

SECURITY LEGEND	
	1 x LENSE SECURITY CAMERA, CEILING MOUNTED c/w 1 x UTP CABLE
	1 x LENSE SECURITY CAMERA, WALL MOUNTED c/w 1 x UTP CABLE
	INTERCOM STATION - WALL MOUNTED
	INTERCOM STATION c/w HAND FREE OPERATION - WALL MOUNTED
	INTERCOM MASTER STATION c/w REMOTE DOOR RELEASE - WALL MOUNTED
	VIDEO INTERCOM MASTER STATION c/w REMOTE DOOR RELEASE

NURSE CALL SYSTEM LEGEND	
	NURSE CALL SYSTEM BEDSIDE STATION c/w CODE BLUE AND NURSE ASSIST - SINGLE BED
	NURSE CALL SYSTEM BEDSIDE STATION c/w CODE BLUE AND NURSE ASSIST - DUAL BED
	NURSE CALL SYSTEM EMERGENCY/BATHROOM/WASHROOM STATION
	NURSE CALL SYSTEM STAFF/DUTY STATION
	NURSE CALL SYSTEM NURSE ASSIST STATION
	NURSE CALL SYSTEM CODE BLUE STATION
	NURSE CALL SYSTEM CODE PINK STATION
	NURSE CALL SYSTEM 4-BUTTON WORKFLOW STATION
	NURSE CALL SYSTEM 2-WAY COMMUNICATIONS STATION
	NURSE CALL SYSTEM CONSOLE [MASTER STATION]
	NURSE CALL SYSTEM CONTROL PANEL c/w POWER SUPPLY AND BACKUP POWER.
	NURSE CALL DIGITAL MESSAGE DISPLAY CEILING MOUNTED
	NURSE CALL SYSTEM REMOTE TILT/RELEASE DIN STATION
	NURSE CALL OVERRIDE KEY SWITCH
	DEDICATED PHONE LINE TO CENTRAL AMBULANCE DISPATCH
	NURSE CALL DOME LIGHT CEILING MOUNTED
	NURSE CALL DOME LIGHT WALL MOUNTED
	NURSE CALL ZONE DOME LIGHT CEILING MOUNTED
	NURSE CALL SYSTEM ELAPSED TIME CLOCK c/w WALL MOUNTED CONTROL STATION - CEILING MOUNTED
	NURSE CALL SYSTEM ELAPSED TIME CLOCK c/w WALL MOUNTED CONTROL STATION - WALL MOUNTED
	DENOTES PATIENT CARE ENVIRONMENTCLASSIFICATION, AS PER CSA Z32: B - BASIC, I - INTERMEDIATE, C - CRITICAL

MISCELLANEOUS LEGEND	
r/l	DENOTES RAISE - LOWER SWITCH
K	DENOTES KEY OPERATED
PL	DENOTES ON/OFF SWITCH c/w PILOT LIGHT
WG	DENOTES WIRE GUARD
H/C	DENOTES HANDICAP PUSH BUTTON
EC	DENOTES EMPTY CONDUIT
RB	DENOTES RELAY BASE
c/w	DENOTES COMPLETE WITH
	DENOTES RECESSED/SURFACE MOUNTED PULL BOX
	DENOTES RECESSED/SURFACE MOUNTED JB NURSE CALL
E	DENOTES EXISTING ITEM TO REMAIN
R	DENOTES EXISTING ITEM TO BE REMOVED
ER	DENOTES EXISTING ITEM TO BE RELOCATED
RE	DENOTES EXISTING ITEM IN RELOCATED POSITION
RW	DENOTES EXISTING DEVICE PROVIDED WITH NEW WIRING
----	HIDDEN LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED
	<u>DENOTES MATCHLINE ORIENTATION</u>
	THE ARROW POINTS TO THE DIRECTION OF EACH BLOCK AND ITS RESPECTIVE DRAWING NUMBER. INFORMATION SHOWN ON THE MATCHLINE SIDE THAT INDICATES OTHER DRAWING, IS FOR INFORMATION ONLY, AND TO PROVIDE A SENSE OF CONTINUITY TO THE CURRENT DRAWING. THIS INFORMATION APPLIES ONLY ON THE DRAWING INDICATED.
	MATCHLINE IS A COMMON BOUNDRY LINE THAT DIVIDES EACH FLOOR INTO ITS DESIGNATED BLOCKS

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27 AND 28

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Plot Date:	2024-12-16

Drawing Number:

E003

ELECTRICAL DEMOLITION

1. CO-ORDINATE ALL WORK WITH THE CURRENT USE OF THE BUILDING.
2. MAINTAIN ALL ELECTRICAL SERVICES TO ALL PARTS OF THE BUILDING WHICH ARE IN USE. ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL WORK AND INFORM THE OWNER IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR PERMISSION IF POWER SHUTDOWN IS NECESSARY AND STATE TIME(S) AND DURATION(S) OF INTERRUPTIONS. CONTRACTOR TO CONSULT WITH THE OWNER AND DETERMINE THE EQUIPMENT REQUIRED TO BE ONLINE 24 HOURS PER DAY AND PROVIDE TEMPORARY SERVICES AND WIRING AS NECESSARY. RESCHEDULE WORK ACCORDINGLY WHEN REQUESTED BY THE CONSULTANT.
3. INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO PERFORM WORK DURING SHUTDOWNS AND MAINTAIN ALL ELECTRICAL SERVICES IN OPERATION.
4. CHECK AND CO-ORDINATE ALL SYSTEMS IN THE RENOVATED AREA AND IN THE NEW BUILDING ADDITION, WHICH ARE TO BE EXTENDED FROM EXISTING SYSTEMS TO ENSURE THEIR PROPER OPERATION.
5. PROVIDE INTERFACING COMPONENTS BETWEEN NEW AND EXISTING SYSTEMS AS NECESSARY FOR PROPER PERFORMANCE AND OPERATION.
6. REMOVE AND RELOCATE EXISTING SERVICES TO ALLOW FOR NEW CONSTRUCTION AS SHOWN ON THE DRAWINGS.
7. WORK SHALL INCLUDE FOR REMOVAL AND REINSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT IN THE NOTED AREAS AS NOTED ON THE DEMOLITION DRAWINGS. THIS SHALL INCLUDE, BUT NOT TO BE LIMITED TO:
 - A. DISCONNECTING, REMOVAL AND REINSTALLATION OF ALL ELECTRICAL DEVICES, CONDUIT AND WIRING TO ACCOMMODATE NEW WORK.
 - B. REWORK OF CONDUITS, WIRING AND CABLES IN SPACE ASSOCIATED WITH THE AREAS OF WORK. PULL BACK ALL WIRING AND CABLES TO AN APPROPRIATE POINT FOR RECONNECTION (POWER, VOICE, COMMUNICATION, ETC.).
 - C. REMOVAL OF EXISTING WIRE AND CABLE IN EXISTING CONDUITS BEING REMOVED BACK TO THE SOURCE, REGARDLESS OF WHETHER THE SOURCE IS LOCATED IN THE DEMOLITION AREA.
 - D. REMOVAL AND REINSTALLATION OF ALL LIGHT FIXTURES INTERFERING WITH THE WORK.
 - E. REMOVAL OF ALL UNUSED WALL MOUNTED DEVICES AND BOXES. PATCHING OF OPENINGS SHALL BE BY ELECTRICAL CONTRACTOR.
 - F. IDENTIFICATION AND PROTECTION OF ALL SERVICES PASSING THROUGH THE AREA OF WORK, BUT SERVICING OTHER AREAS OF THE BUILDING, UNLESS OTHERWISE NOTED.
 - G. PROVISION OF NEW SUPPORTS FOR EXISTING CONDUITS AND DEVICES WHERE SUPPORTED FROM EXISTING STRUCTURE, WALLS OR CEILINGS BEING REMOVED.
8. ALL SERVICE CONDUITS NOT DIRECTLY ASSOCIATED WITH AREA LIGHTING, POWER, LOCAL SYSTEMS, ETC. SHALL BE TRACED AND IDENTIFIED FOR REVIEW BY THE CONSULTANT IN ORDER TO DETERMINE IF SERVICES ARE TO REMAIN OR TO BE REMOVED. ONCE IDENTIFIED, THE CONTRACTOR SHALL REMOVE THOSE DIRECTED BY THE CONSULTANT.
9. REMOVE ALL CONDUIT WORK WHICH IS ABANDONED EXCEPT CUT FLUSH WHERE EMBEDDED IN STRUCTURE.
10. HAND OVER REMOVED ITEMS TO OWNER AS REQUIRED. DISPOSE OF THE EQUIPMENT THAT THE OWNER DOES NOT WISH TO RETAIN.
11. REPAIR ALL DAMAGES IN THE SURROUNDING AREA AND RENOVATED AREAS CAUSED BY THE DEMOLITION WORK, WITHOUT EXTRA COST TO THE OWNER.
12. FOLLOW NECESSARY PROCEDURES WHEN DISPOSING OF PRODUCTS CONTAINING HAZARDOUS MATERIALS SUCH AS MERCURY IN LAMPS, PCB BALLASTS, ETC.
13. ALL WORK AND MATERIAL DISPOSAL SHALL BE DONE IN ACCORDANCE WITH THE ESTABLISHED SCHEDULE AND GENERAL CONDITIONS.
14. ALL SERVICES AND EQUIPMENT NOT SHOWN ON DRAWINGS SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. THIS CONTRACTOR SHALL BE REQUIRED TO PROVIDE NEW CONDUIT AND WIRING FOR ALL EXISTING SYSTEMS TO REMAIN SO THAT THE EXISTING CONDUIT AND DEVICES DO NOT INTERFERE WITH NEW WORK. CONTRACTOR TO REMOVE EXISTING DEVICES AND RECONNECT TO NEW SERVICES ACCORDINGLY.
15. WHERE EXISTING DEVICES ARE TO BE REMOVED, MAKE SAFE ALL WIRING AND MAKE SURE THAT ALL OTHER DEVICES ON THE SAME CIRCUIT ARE OPERATIONAL.
16. CLEAN AND TEST EXISTING EQUIPMENT WHICH IS TO REMAIN AND EQUIPMENT BEING REINSTALLED IN AREAS BEING RENOVATED FOR PROPER OPERATION AND REPAIR AS NECESSARY BEFORE BEING PUT BACK INTO SERVICE.
17. CONTRACTOR TO VERIFY OPERATION OF ALL EXISTING DEVICES AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.
18. WHERE ELECTRICAL ITEMS ARE TO BE SALVAGED AND REUSED, REMOVE ITEMS FROM EXISTING LOCATIONS CAREFULLY TO AVOID DAMAGE.
19. REPAIR OR REPLACE WITHOUT ADJUSTMENT TO THE CONTRACT PRICE ALL EXISTING EQUIPMENT WHICH IS DAMAGED IN PROCESS OF REMOVAL AND REINSTALLATION.
20. UNLESS NOTED OTHERWISE PROVIDE ADDITIONAL EQUIPMENT OF THE SAME TYPE AND MANUFACTURE WHERE REQUIRED TO SUPPLEMENT EXISTING EQUIPMENT.

GENERAL REQUIREMENTS

1. ELECTRICAL DRAWINGS SHALL BE READ INCONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DOCUMENTS AT ALL TIMES.
2. IF A POWER SHUT DOWN IS REQUIRED TO FACILITATE ANY INSTALLATION RELATED TO THIS PROJECT AT ANY TIME, THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER'S REPRESENTATIVE AND THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR AT LEAST TWO WEEKS IN ADVANCE FOR PERMISSION. WITHOUT PERMISSION, NO SUCH WORK SHALL BE STARTED. THE CONTRACTOR SHALL ENSURE THE REQUEST IS INDICATED IN SITE MEETING MINUTES.
3. DETAILS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. THEY DO NOT SHOW ALL NECESSARY COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT WHICH IS REQUIRED.
4. THE FOLLOWING SHALL BE USED AS A GUIDE WITH RESPECT TO BRANCH CIRCUIT WIRE SIZING FOR VOLTAGE DROP
 - A. #12 AWG TO BE USED FROM 0 TO 80FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - B. #10 AWG TO BE USED FROM 80-180FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - C. #8 AWG TO BE USED FROM 180-280FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
5. DIVISION 1 GENERAL INSTRUCTIONS SHALL BE READ IN CONJUNCTION WITH AND FORM PART OF THIS SPECIFICATION.
6. SUPPLY AND INSTALL ALL ITEMS, ARTICLES, MATERIAL, OPERATIONS AND INCLUDE ALL LABOUR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE ALL INSTALLATIONS SHOWN ON THE DRAWINGS. RENDER A COMPLETE AND OPERATIONAL INSTALLATION. TEST AND VERIFY ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND INSTRUCT OWNER'S REPRESENTATIVE IN THE OPERATION OF THE EQUIPMENT.
7. WORKMANSHIP AND METHODS OF INSTALLATION SHALL BE OF BEST STANDARDS AND PRACTICE. WORK SHALL BE PERFORMED BY LICENSED TRADESMAN SKILLED IN THE TYPE OF WORK TO BE PERFORMED.
8. PROVIDE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE GOVERNMENT CODES, LOCAL BY-LAWS, UNDERWRITER'S REGULATIONS BASE BUILDING STANDARDS, CONTRACT DOCUMENTS AND ALL AUTHORITIES HAVING JURISDICTION. ALL MATERIALS & METHOD OF INSTALLATION TO CONFORM TO THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE AND BULLETINS. APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, CONNECTIONS, INSPECTIONS, LICENSES CERTIFICATES FOR CHARGES NECESSARY INCLUDING ALL PROVINCIAL TAX AND HST BEFORE PROCEEDING WITH ANY WORK.
9. PRIOR TO TENDER SUBMISSION VISIT AND EXAMINE THE SITE, LOCAL CONDITIONS AND THE CONTRACT DOCUMENTS. MAKE ALLOWANCE FOR ANY RE-ROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN THE TENDER PRICE. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF THE CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED INSTALLATION CAN BE CARRIED OUT AS INTENDED. FAILURE TO OBSERVE THE ABOVE WILL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.
10. THE DRAWINGS SHOW THE GENERAL INTENT OF THE WORK ONLY AND DO NOT SHOW ALL DETAILS OF THE INSTALLATION. DO NOT SCALE DRAWINGS. OBTAIN ALL DIMENSIONS OF THE DEVICES, FIXTURES EQUIPMENT, ETC., FROM FIELD MEASUREMENTS AND ARCHITECTURAL DRAWINGS.
11. REPORT TO THE CONSULTANT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS AND DEPARTURES FROM BUILDING CODE, ELECTRICAL CODE, BY-LAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING. THE TENDER DOCUMENTS SHALL BE READ IN CONJUNCTION WITH THE DOCUMENTS OF ALL TRADES TO PROVIDE A COMPLETE OVERVIEW OF THE ENTIRE SCOPE. WHERE DIFFERENCES OCCUR BETWEEN PLANS AND RISER DIAGRAMS OR SCHEMATICS, THE MAXIMUM CONDITIONS SHALL GOVERN.
12. COORDINATE THE ROUTING AND INSTALLATION OF ALL ELECTRICAL SERVICES WITH THE WORK AND COOPERATION OF ALL OTHER TRADES, STRUCTURAL INTERFERENCES AND EXISTING CONDITIONS PRIOR TO ROUGHING-IN DEVICES, CONDUIT, ETC., TO AVOID CONFLICT. IF THERE IS INTERFERENCE, RELOCATE DEVICES TO SUIT WITHOUT ADDITIONAL COST TO THE CONTRACT.
13. UPON COMPLETION OF THE WORK, SUBMIT DIGITAL ELECTRICAL AS-BUILT DRAWINGS IN AUTOCAD FORMAT TO THE CONSULTANT FOR REVIEW.
14. AT THE COMPLETION OF THE WORK, SUBMIT DIGITAL COPIES OF ELECTRICAL MAINTENANCE MANUALS TO THE CONSULTANT FOR REVIEW. ELECTRICAL MANUALS SHALL INCLUDE THE FOLLOWING; COPIES OF ALL REVIEWED SHOP DRAWINGS, WARRANTY CERTIFICATE, LIST OF SUPPLIERS AND CONTACT INFORMATION, FINAL ESA CERTIFICATE, FIRE ALARM VERIFICATION REPORT, AND ALL OTHER RELEVANT TEST REPORTS.
15. TENDER SHALL BE PREPARED ONLY ON THE BASIS OF SPECIFIED MATERIAL AND EQUIPMENT. ANY ALTERNATIVES SUGGESTED SHALL BE SUBMITTED PRIOR TO CONSTRUCTION AND SHALL BE ACCOMPANIED BY ALL DATA REQUIRED TO EVALUATE THE ALTERNATIVE. DURING CONSTRUCTION, ALTERNATIVES WILL ONLY BE CONSIDERED IF TENDERED PRODUCTS ARE UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND EXTRA COST OR LIABILITY OF ALL SUBSTITUTIONS AND ALTERNATIVES.
16. ANY PRODUCT NOT SPECIFICALLY SPECIFIED SHALL BE A QUALITY CONSISTENT WITH BASE BUILDING PRODUCTS AND THE CONTRACT DOCUMENTS.
17. PROVIDE A WRITTEN WARRANTY FOR ALL LABOUR, MATERIALS AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF TWO (2) YEAR COMMENCING AT COMPLETION OF CONTRACT, PROVIDE LABOUR AND MATERIALS TO REPAIR OR REPLACE ANY DEFECTS AT NO EXTRA COST TO THE OWNER.
18. ANY COSTS FOR PREMIUM TIME OUTSIDE THE NORMAL WORKING HOURS TO COMPLETE THE WORK ON SCHEDULE AND TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS IN OPERATION SHALL BE INCLUDED IN THE TENDER PRICE.
19. PROVIDE A COMPLETE BREAKDOWN OF MATERIALS, EQUIPMENT AND LABOUR COSTS WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK. EACH COMPONENT OF THE EXTRA OR CREDITED WORK SHALL BE SHOWN WITH INDIVIDUAL MATERIAL AND LABOUR COSTS AND SUBMITTED WITH THE BREAKDOWN.
20. ALL SHUTDOWNS OF EXISTING BASE BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO PERFORM WORK DURING SHUTDOWNS AND PAY FOR ANY COSTS INCURRED. ALLOW 10 WORKING DAYS NOTICE FOR ALL ELECTRICAL SHUTDOWNS. RESCHEDULE SHUTDOWNS WHERE NECESSARY TO COORDINATE WITH OWNER'S REQUIREMENTS.
21. VERIFY ON SITE, EXISTING CIRCUITS USED, SPARE CIRCUITS AND SPACES AVAILABLE. PROVIDE ADDITIONAL BREAKERS AND CIRCUITS NECESSARY WHERE EXISTING PANELS ARE TO BE REUSED.
22. PROVIDE ALL CLEAN-UP, LIFTING, STORAGE, CUTTING, CORING, PATCHING AND FLASHING AS REQUIRED. OBTAIN PERMISSION AND COORDINATE ANY PENETRATIONS THROUGH FLOOR SLAB OR STRUCTURE.
23. PROVIDE X-RAY OF SLAB PRIOR TO SAWCUTTING OR CORE-DRILLING. ALL X-RAYING SHALL BE DONE AFTER HOURS AND ONLY BY PERSONNEL QUALIFIED IN THE USE OF THE TYPE OF EQUIPMENT. NO ALLOWANCE WILL BE MADE LATER FOR EXPENSES INCURRED THROUGH THE FAILURE OF PERFORMING THESE X-RAYS. ALL FLOOR SAWCUTTING AND DRILLING REQUIRED FOR ELECTRICAL SERVICES ARE TO BE PERFORMED WITHIN HOURS APPROVED BY THE OWNER. PRIOR WRITTEN NOTICE OF 48-HOURS MUST BE GIVEN TO THE OWNER. CONFIRM LOCATION WITH ARCHITECTURAL AND STRUCTURAL PRIOR TO ANY X-RAYING OR CUTTING. PATCH AND SEAL ALL OPENINGS IN FLOOR, WALLS AND PARTITIONS. IF FLOORS, WALL OR PARTITIONS ARE FIRE RATED, PATCH AND SEAL PENETRATIONS WITH FIRE RESISTANT INSULATION AND APPROVED FIRE STOP SYSTEM.
24. BE RESPONSIBLE FOR CARE OF THE BUILDING. CONTRACTOR SHALL SEAL OFF EACH AREA AS WORK IS BEING PERFORMED, SO AS NOT TO DISTURB DAY TO DAY OPERATION. ACCESS TO WASHROOMS, ELEVATORS, STAIRS, ETC. MUST REMAIN OPEN. CLEAN UP ALL DEBRIS DAILY AND REMOVE FROM THE SITE ON OR BEFORE COMPLETION OF CONTRACT.
25. ALL MATERIALS ARE TO BE NEW SPECIFICATION GRADE AND TO BEAR CSA APPROVAL LABELS.
26. ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SUITABLE ENCLOSURES FOR SPRINKLERED AREAS.
27. CONTRACTOR TO MAKE GOOD ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS. REPLACE CEILING TILES DAMAGED BY CONSTRUCTION WITH NEW TO MATCH EXISTING.
28. PROVIDE A COMPLETE TYPED-OUT DIRECTORY OF CONNECTED LOADS TO ALL NEW AND EXISTING PANELS BEING USED. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR GROUPING PURPOSES ONLY. BALANCE LOADS ON PANELS TO WITHIN 10 % ACROSS PHASES.
29. PROVIDE LAMACOID NAMEPLATES WITH WHITE LETTERS ON BLACK BACKGROUND FOR ALL EQUIPMENT ON NORMAL POWER AND LAMACOID NAMEPLATES WITH WHITE LETTERS ON RED BACKGROUND FOR ALL EQUIPMENT ON EMERGENCY POWER.
30. PROVIDE LAMACOID NAMEPLATES INDICATING PANEL NAME AND CIRCUIT NUMBER ON ALL RECEPTACLES.
31. ALL ELECTRICAL OUTLET BOXES, JUNCTION BOXES, ETC. SHALL BE LOCATED IN ACCESSIBLE CEILING. WHERE EXISTING DEVICES AND/OR OUTLET BOXES ARE TO REMAIN ABOVE DRYWALL CEILING, RELOCATE DEVICES OR PROVIDE ACCESS HATCH(ES) (WHICHEVER METHOD IS ACCEPTABLE TO ARCHITECT). PROVIDE ACCESS HATCH(ES) WHERE REQUIRED FOR NEW EQUIPMENT BEING PROVIDED.
32. PROVIDE FLUSH MOUNTED ACCESS PANELS FOR ALL CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS. FINISH OF ACCESS PANELS SHALL BE SUITABLE FOR WALL OR CEILING FINISHES WHERE ACCESS PANELS ARE TO BE INSTALLED. REVIEW LOCATIONS OF ALL ACCESS PANELS WITH CONSULTANT PRIOR TO INSTALLATION.

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FIRE SEAL
<div>1. MAINTAIN THE INTEGRITY OF ALL FIRE SEPARATIONS. PROVIDE ALL NECESSARY CSA AND ULC LISTED PRODUCTS WHICH ARE REQUIRED TO GO IN AND AROUND CONDUITS OR CABLES THROUGH FIRE RATED ASSEMBLIES. TO RETAIN THE FIRE RATING OF THESE ASSEMBLIES.</div> <div>2. WHERE CONDUITS OR SLEEVES PENETRATE FIRE RATED ASSEMBLIES SUCH AS BETWEEN THE CORRIDOR AND ANY ROOM PROVIDE FIRE STOPPING SEALS.</div> <div>3. PACK THE SLEEVES, CONDUITS AND AROUND THE CONDUITS FOR A COMPLETE SEAL.</div> <div>4. ACCEPTED FIRE SEAL LIQUID OR PUTTY TYPE SHALL ONLY BE PROVIDED BY DOW CORNING, 3M OR TREMCO. MINERAL WOOL FIBRE SHALL NOT BE USED.</div>

CONDUIT AND WIRING
<div>1. PROVIDE CONCEALED CONDUIT FOR ALL WIRING UNLESS OTHERWISE NOTED. SECURE CONDUIT TO UNDERSIDE OF FLOOR SLAB, STRUCTURE OR OTHER MEANS OF INDEPENDENT SUPPORT, DO NOT USE CEILING SYSTEM TO SUPPORT CONDUITS.</div> <div>2. AC90 (BX) CABLE CAN BE USED IN DRYWALL PARTITIONS, AND FOR FINAL CONNECTION TO LIGHTING FIXTURES IN CEILING SPACE. MAXIMUM LENGTH OF DROP CABLE TO LIGHTING FIXTURE SHALL NOT EXCEED 1500mm.</div> <div>3. ALL WIRING SHALL BE COPPER RATED 90C, RW90 TYPE AND MINIMUM WIRE SIZE FOR BRANCH WIRING SHALL BE #12 AWG COPPER, #10 AWG TO BE USED IF DISTANCE BETWEEN PANEL AND FIRST OUTLET EXCEEDS 25M. MAXIMUM VOLTAGE DROP TO BE NO MORE THAN 3%.</div> <div>4. PROVIDE A SEPARATE GROUND WIRE FOR EACH CONDUIT.</div> <div>5. PROVIDE A SEPARATE NEUTRAL WIRE FOR EACH CIRCUIT INDICATED.</div> <div>6. ALL ADDITIONAL CONDUITS AND WIRING REQUIRED FOR THIS MODIFICATION SHALL BE NEW. DO NOT REUSE REMOVED CONDUITS AND WIRING UNLESS APPROVED BY CONSULTANT AND OWNERS REPRESENTATIVE.</div> <div>7. CONDUIT SHALL BE TYPE EMT C/W STEEL SETSCREW CONNECTORS. MINIMUM SIZE OF CONDUIT IS 21mm IN DIAMETER UNLESS OTHERWISE NOTED.</div> <div>8. RIGID GALVANIZED CONDUITS AND ALL WEATHERPROOF FITTINGS SHALL USED FOR ALL EXTERIOR CONDUIT RUNS.</div> <div>9. PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT AND FITTINGS FOR FINAL CONNECTIONS TO ALL MOTORS.</div>

MATERIALS
<div>1. PANELBOARDS SHALL BE RATED 120/208V, 3PHASE, 4 WIRE. ALL BUS WORK SHALL BE COPPER. PANELBOARDS SHALL BE RATED FOR A MINIMUM OF 10kA FOR 208V PANELBOARDS MOULDED CASE BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C. PANEL TRIMS SHALL BE COMPLETE WITH DIRECTORIES, LOCKABLE DOORS AND NAMEPLATES. PANELBOARDS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELBOARDS SHALL BE SPRINKLER PROOF.</div> <div>2. SOLID STATE TRIP BREAKERS DESIGN TYPE D: PROVIDE MOLDED CASE CIRCUIT BREAKERS TO OPERATE BY MEANS OF A SOLID STATE TRIP UNIT WITH ASSOCIATED CURRENT MONITORS AND SELF POWERED SHUNT TRIP DEVICES TO PROVIDE AN INVERSE TIME VS CURRENT TRIP CHARACTERISTIC UNDER OVERLOAD CONDITIONS, AND LONG TIME SHORT TIME INSTANTANEOUS TRIPPING FOR PHASE GROUND FAULT SHORT CIRCUIT PROTECTION. THE TRIP UNIT SHALL BE FULLY ADJUSTABLE CURRENT AND TIME CHARACTERISTICS. ALL BREAKERS 400 A ABOVE SHALL BE SOLID STATE TYPE (LSIG).</div> <div>3. DISTRIBUTION PANELS SHALL BE RATED 208V OR 600V, 3PHASE, 3 OR 4 WIRE. ALL BUS WORK SHALL BE COPPER. BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C WITH INDIVIDUAL NAMEPLATES. DISTRIBUTION PANELS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELS SHALL BE SPRINKLER PROOF. DISTRIBUTION PANELS AND BREAKERS SHALL BE RATED FOR MINIMUM FAULT CURRENTS AS FOLLOWS UNLESS OTHERWISE NOTED; 600V - 24kA, 120/208V - 14kA, UNLESS OTHERWISE NOTED.</div> <div>4. FUSES SHALL BE HRC TYPE `J` 200KA INTERRUPTING RATING.</div> <div>5. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH QUICK-MAKE, QUICK-BREAK SWITCHING ACTION. SWITCHES SHALL BE PROVIDED WITH CSA ENCLOSURES TO SUIT THE ENVIRONMENT WHERE THE SWITCH IS LOCATED WITH VOIDABLE INTERLOCK TO PREVENT THE DOOR OPENING WHEN THE SWITCH IS IN THE ON POSITION. SWITCHES SHALL BE HAVE PROVISION FOR PADLOCKING IN THE ON OR OFF POSITION.</div>

LIGHTING
<div>1. LIGHTING LUMINAIRES AND ACCESSORIES SHALL NOT BE SECURED TO OR SUSPENDED IN ANY WAY FROM MECHANICAL PIPES, DUCTS OR OTHER COMPONENTS. IF NECESSARY, ADDITIONAL SUPPORTS SHALL BE INSTALLED TO BRIDGE THE EQUIPMENT.</div> <div>2. ALL LIGHTING LUMINAIRES (RELOCATED AND NEW) WHICH ARE LOCATED IN SUSPENDED CEILING SHALL BE SUPPORTED BY APPROVED WIRES OR CHAINS WHICH WILL ALLOW LUMINAIRES TO BE SUPPORTED PROPERLY AND INDEPENDENT OF THE CEILING SYSTEM. ALL SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.</div>

MECHANICAL EQUIPMENT WIRING
<div>1. ALL ELECTRICAL DISCONNECT SWITCHES AND ALL MANUAL OR AUTOMATIC STARTERS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 16. CO-ORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ALL DEVICES TO AVOID ANY CONFLICT. IF THERE IS CONFLICT, RELOCATE DEVICES WITHOUT EXTRA COST TO THE OWNER.</div> <div>2. ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. ALL CONTROL WIRING SHALL BE BY DIV. 15.</div> <div>3. ALL VARIABLE FREQUENCY DRIVES SHALL BE PROVIDE BY DIV. 15. ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. COORDINATE LOCATIONS OF ALL VFD'S WITH DIV. 15.</div> <div>4. WIRING BETWEEN VFD'S AND MOTORS SHALL BE VFD TYPE CABLE (NEXANS DRIVERX).</div>

PANELBOARDS
<div>1. ALL PANELBOARDS MUST BE THE PRODUCT OF ONE (1) MANUFACTURER.</div> <div>2. FOR 250V PANELBOARDS, THE BUS, THE MAIN BREAKER AND THE BRANCH BREAKERS MUST BE RATED FOR A MINIMUM OF 10000A INTERRUPTING CAPACITY. FOR 600V PANELBOARDS THE BUS, THE MAIN BREAKER AND THE BRANCH BREAKERS MUST BE RATED FOR A MINIMUM OF 14000A INTERRUPTING CAPACITY UNLESS OTHERWISE NOTED.</div> <div>3. PROVIDE COPPER MAIN BUS, NEUTRAL BUS OF THE SAME VOLTAGE AND AMPERE RATING AS WHERE INDICATED.</div> <div>4. PROVIDE DOORS WITH CONCEALED HINGES, LOCKS AND HARDWARE FOR ALL PANELBOARDS UNLESS OTHERWISE INDICATED. FOR RECESSED PANELBOARD PROVIDE CHROME PLATED HARDWARE WHERE EXPOSED.</div> <div>5. PROVIDE A SIZE 3 NAMEPLATE FOR EACH PANELBOARD ENGRAVED AS INDICATED PROVIDE A SIZE 2 NAMEPLATE FOR EACH CIRCUIT IN DISTRIBUTION PANELBOARD ENGRAVED AS INDICATED. PROVIDE A COMPLETE TYPE-WRITTEN CIRCUIT DIRECTORY WITH CLEAR PLASTIC COVER SHOWING THE LOCATION AND LOAD OF EACH CIRCUIT FOR ALL PANELBOARDS.</div> <div>6. ACCEPTABLE PANELBOARD MANUFACTURERS ARE:<div>A. SQUARE D CANADA</div><div>B. SIEMENS</div><div>C. EATON CANADA</div></div>

WIRING DEVICES
<div>1. COORDINATE ALL RECEPTACLES SUCH THAT THEY ARE INSTALLED TO MATCH THE REQUIRED EQUIPMENT PLUG CONFIGURATIONS. MAKE CHANGES TO SUIT AT NO EXTRA COST.</div> <div>2. PROVIDE WIRING DEVICES AS INDICATED ON DRAWINGS. ALL WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL, LEVITON, PASS & SEYMOUR OR BRYANT.</div> <div>3. CONVENIENCE DUPLEX RECEPTACLES SHALL BE FINISHED IN WHITE HUBBELL CAT. 5262 SERIES. SURGE SUPPRESSION TYPE DUPLEX RECEPTACLES SHALL BE FINISHED IN BLUE, HUBBELL CAT. 8062 SERIES.</div> <div>4. DUPLEX RECEPTACLES CONNECTED TO EMERGENCY POWER SHALL BE FINISHED IN RED.</div> <div>5. 120V LIGHT SWITCHES SHALL BE FINISHED IN WHITE RATED 20A, HUBBELL CAT. 1220 SERIES.</div> <div>6. ALL COVER RATES SHALL BE FINISHED IN VERTICALLY BRUSHED STAINLESS STEEL.</div> <div>7. INCANDESCENT DIMMERS SHALL BE LUTRON NT SERIES (FLUORESCENT DIMMERS SHALL BE NTF SERIES).</div> <div>8. THREE WAY (2 LOCATION) DIMMERS SHALL BE LUTRON NTB/NTA-2 SERIES.</div> <div>9. OCCUPANCY SENSOR WALL SWITCHES SHALL BE WATTSTOPPER MODEL WS-200.</div> <div>10. CEILING MOUNTED OCCUPANCY SENSORS AND POWER PACKS SHALL BE WATTSTOPPER MODEL DT-300/BZ-150.</div>

TESTING
<div>1. AT COMPLETION OF INSTALLATION, CONDUCT GROUNDING RESISTANCE TEST, VOLTAGE TEST, ETC. AND MAKE ALL CORRECTION WHERE NECESSARY AND AS DIRECTED.</div> <div>2. VOLTAGE PROVIDED TO EQUIPMENT IN INSTALLATION SHALL NOT EXCEED MINIMUM AND MAXIMUM PERMISSIBLE LIMITS REQUIRED BY ELECTRICAL SAFETY CODE.</div> <div>3. TEST PERFORMANCE OF ALL EQUIPMENT, DEVICES AND OUTLETS IN RENOVATED AND AFFECTED AREAS. MAKE ADJUSTMENTS AND RECTIFICATIONS NECESSARY.</div> <div>4. FURNISH LABOUR, MATERIALS, INSTRUMENTS, AND BEAR ALL COSTS IN CONNECTION WITH ALL TESTS, OBTAIN REQUIRED CERTIFICATES OF APPROVAL, ACCEPTANCE, AND COMPLIANCE WITH REGULATIONS OF AGENCIES HAVING JURISDICTION AND AS SPECIFIED.</div> <div>5. WORK SHALL NOT BE DEEMED COMPLETE AND FINAL CERTIFICATE OF ACCEPTANCE WILL NOT BE ISSUED, UNTIL SUCH CERTIFICATES HAVE BEEN DELIVERED TO CONSULTANT.</div>

FIRE ALARM AND VOICE COMMUNICATION
<div>1. MODIFY EXISTING FIRE ALARM SYSTEM, WIRING, ANNUNCIATORS AND EQUIPMENT AND PROGRAMMING AS NECESSARY TO RELOCATE EXISTING DEVICES AND CONNECT NEW DEVICES AS SHOWN AND AS SPECIFIED.</div> <div>2. INSTALLATION OF FIRE ALARM SYSTEM SHALL CONFORM TO CSA/ULC S524 AND THE ONTARIO BUILDING CODE.</div> <div>3. FIRE ALARM DEVICES SHALL MATCH EXISTING AND BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM AND BE ULC AND CSA APPROVED.</div> <div>4. CALCULATE THE EXISTING SYSTEM ALARM LOAD PER CURRENT REGULATIONS. PROVIDE ADDITIONAL POWER SUPPLIES AND BATTERY CAPACITY TO PROVIDE BACK-UP POWER CAPACITY IN ACCORDANCE WITH THE CODE.</div> <div>5. ALL WIRING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTALLED IN METALLIC CONDUIT. FINAL CONNECTIONS TO DEVICES SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT. SIGNAL CIRCUIT WIRING SHALL BE INSTALLED IN SEPARATE CONDUITS FROM INITIATING CIRCUIT WIRING OR COMMUNICATIONS WIRING. AUDIBLE SIGNAL APPLIANCES SHALL BE ALTERNATELY CONNECTED TO EACH OF THE SIGNAL CIRCUITS ON THE FLOOR. CONSECUTIVE OR NEIGHBORING SIGNAL DEVICES SHALL NOT BE CONNECTED TO THE SAME SIGNAL CIRCUIT.</div> <div>6. ADDRESSABLE LOOP WIRING SHALL BE PROVIDED IN A DLCL STYLE AS DEFINED BY ULC S524. PRIMARY AND ALTERNATE WIRING CIRCUITS SHALL BE INSTALLED IN SEPARATE RACEWAYS WITH SPACING AS REQUIRED BY ULC S524.</div> <div>7. THE MANUFACTURER OF THE FIRE ALARM SYSTEM SHALL PERFORM A COMPLETE INSPECTION OF ALL NEW AND RELOCATED COMPONENTS INSTALLED FOR THE SYSTEM IN ACCORDANCE WITH CSA/ULC S537. INCLUDE PROVISION OF ADEQUATE QUALIFIED STAFF TO CARRY OUT INSPECTION WORK. PROVIDE ALL NECESSARY EQUIPMENT AND TEST APPARATUS AS REQUIRED. ADJUST SYSTEM AND COMPONENTS AS REQUIRED TO ENSURE COMPLETE SYSTEM OPERATION AND INCLUDE ASSOCIATED COSTS IN TENDER PRICE.</div> <div>8. WHERE NEW DEVICES ARE BEING ADDED TO EXISTING FIRE ALARM ZONES OR ADDRESSABLE LOOPS, ALL DEVICES ON THE EXISTING ZONE/LOOP SHALL BE RE-VERIFIED IN ACCORDANCE WITH ULC-S537. WHERE NEW FIRE ALARM ZONES OR ADDRESSABLE LOOPS ARE BEING ADDED TO EXISTING FIRE ALARM CONTROL PANELS, OR THE EXISTING PROGRAMMING IS MODIFIED IN ANY WAY, THE NEW ZONE/LOOPS SHALL BE VERIFIED IN ACCORDANCE WITH ULC-S537. IN ADDITION TO THE ABOVE, ONE DEVICE IN EACH EXISTING ZONE/LOOP SHALL BE TESTED IN ACCORDANCE WITH ULC-S536.</div> <div>9. INCLUDE ALL COSTS ASSOCIATED WITH REPROGRAMMING SYSTEM AS SHOWN AND AS SPECIFIED. MANUFACTURER SHALL UPDATE EXISTING MANUALS AND SYSTEM DRAWINGS TO INCLUDE CHANGES PERFORMED AS PART OF THIS CONTRACT.</div> <div>10. TEST AND RECORD EQUIVALENT SOUND LEVEL (LEQ) READINGS IN EACH AREA SERVED BY EACH AUDIBLE DEVICE AND SUBMIT TEST RESULTS WITH VERIFICATION REPORT.</div> <div>11. THE CONTRACTOR SHALL SUBMIT A LETTER AT THE COMPLETION OF THE PROJECT CONFIRMING THE FIRE ALARM SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CSA/ULC S524.</div> <div>12. MAINTAIN EXISTING FIRE ALARM IN BUILDING THROUGHOUT CONSTRUCTION. DEACTIVATE/ACTIVATE ZONES IN CONSTRUCTION AREA ON A DAILY BASIS THROUGHOUT CONSTRUCTION. TEMPORARILY COVER DETECTORS ON A DAILY BASIS TO PROTECT DEVICES DURING CONSTRUCTION. REMOVE COVERS AT THE END OF EACH WORK DAY IN ORDER TO MAINTAIN FIRE ALARM COVERAGE OF AREA. THE FIRE ALARM SYSTEM SHALL NOT BE TURNED OFF UNLESS APPROPRIATE FIRE WATCH IS PROVIDED AND ARRANGEMENT HAS BEEN COORDINATED WITH AND APPROVED BY THE OWNER.</div> <div>13. NEW FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM</div>

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WYCHWOOD TOWERS

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ELECTRICAL
SPECIFICATIONS PART 2

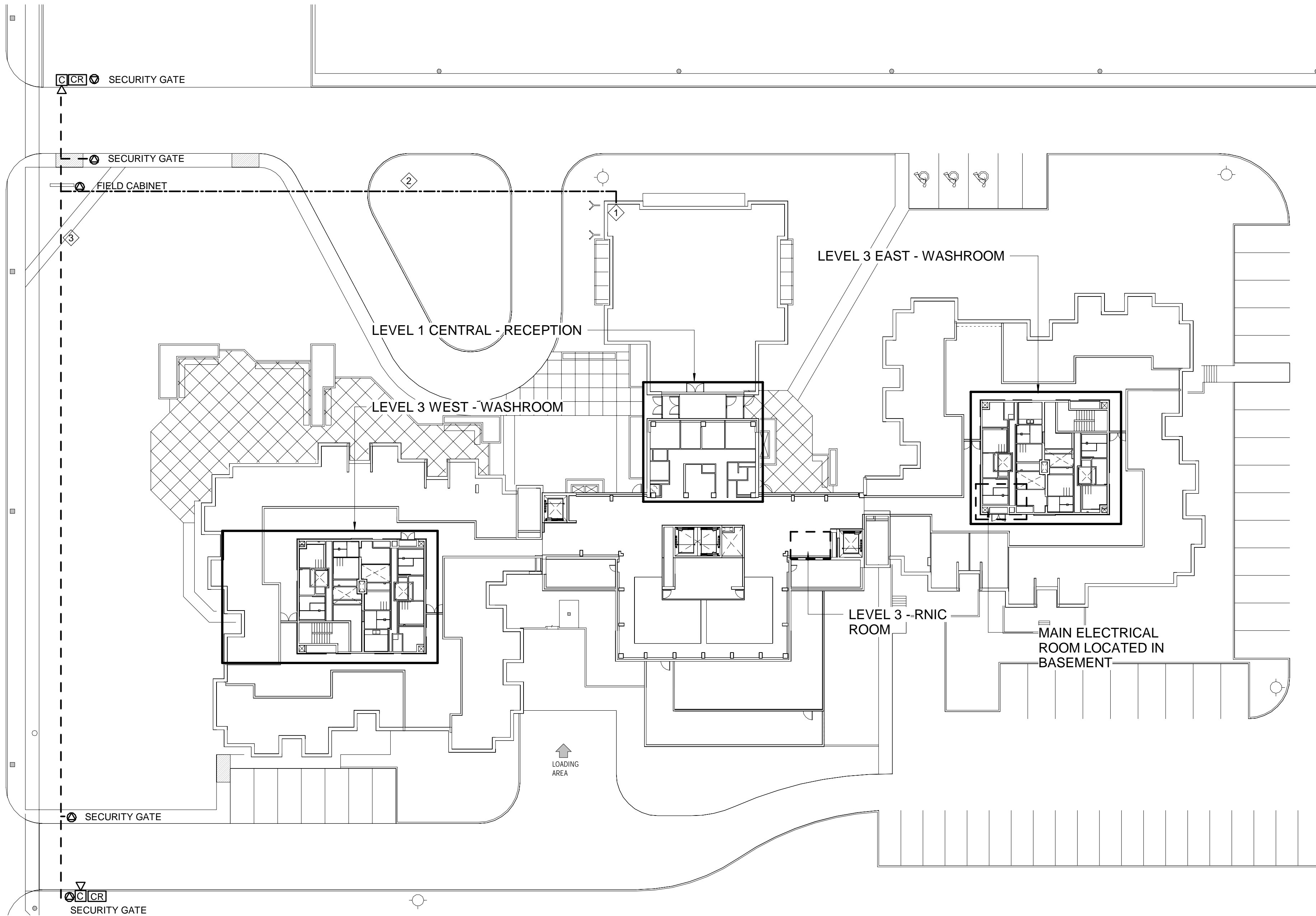
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MSA Job Number:	21503.F03
CEL Job Number:	24503
Plot Date:	2024-12-16

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E005

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KEYNOTES (SHOWN AS ♦) E100

No.	Description
1	EXTEND CONDUITS IN BASEMENT. RUN POWER CONDUIT TO MAIN ELECTRICAL ROOM, AND DATA CONDUIT TO CLOSEST TELECOM CLOSET.
2	PROVIDE 2X CONDUITS BETWEEN BUILDING AND FIELD CABINET. ONE (1) 1.5" CONDUIT FOR POWER, ONE (1) 2" CONDUIT FOR DATA
3	PROVIDE 2X CONDUITS BETWEEN EACH SECURITY GATE AND THE FIELD CABINET. ONE (1) 1" CONDUIT FOR POWER, ONE (1) 2" CONDUIT FOR DATA

GENERAL NOTES

1. PROVIDE DEDICATED 15A, 120V CIRCUIT TO EACH SECURITY GATE AND FIELD CABINET. CONNECT TO EXISTING POWER PANEL IN MAIN ELECTRICAL ROOM.
2. REFER TO SECURITY GATE DETAILS ON SHEET E903 FOR MORE CONDUIT AND WIRING INFORMATION

1
E100

SITE PLAN - ELECTRICAL SCOPE OF WORK

1 : 300

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SITE PLAN - ELECTRICAL
SCOPE OF WORK

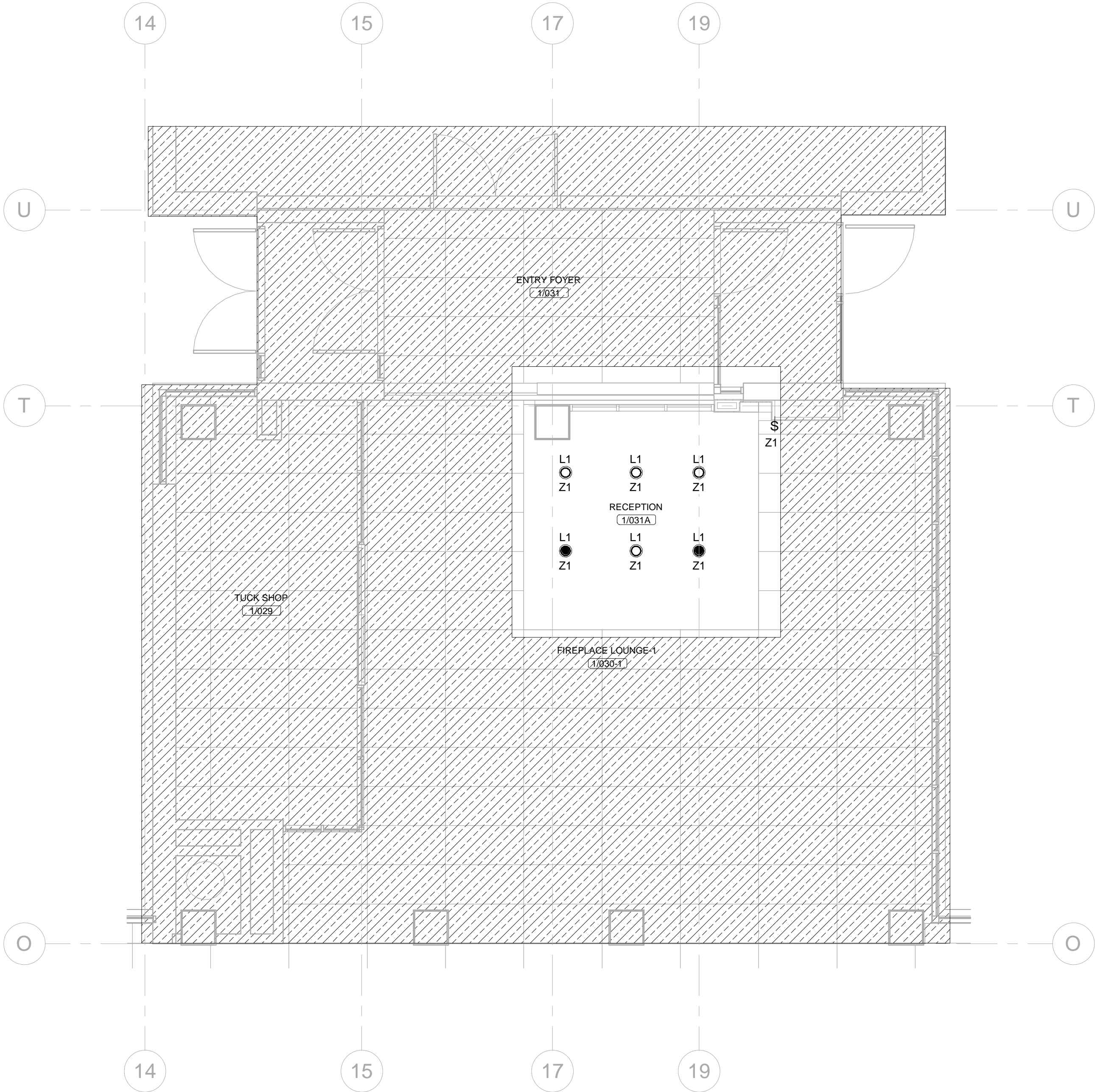
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CEL Job Number: 24503
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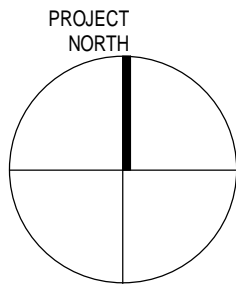


GENERAL NOTES

1. HATCHED AREAS ARE OUTSIDE THE SCOPE.

2. CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUITS.

LIGHTING FIXTURE SCHEDULE RECEPTION						
LUMINAIRE TYPE	DESCRIPTION	WATTAGE	VOLTAGE	COLOR TEMPERATURE	MANUFACTURER	MODEL
L1	LED DOWNLIGHT	12	120 V	3500 K	LYTEPROFILE BY LIGHTOLIER	P4R-DL-15-935-W-CL-Z10-U



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LEVEL 1 CENTRAL -
LIGHTING LAYOUT

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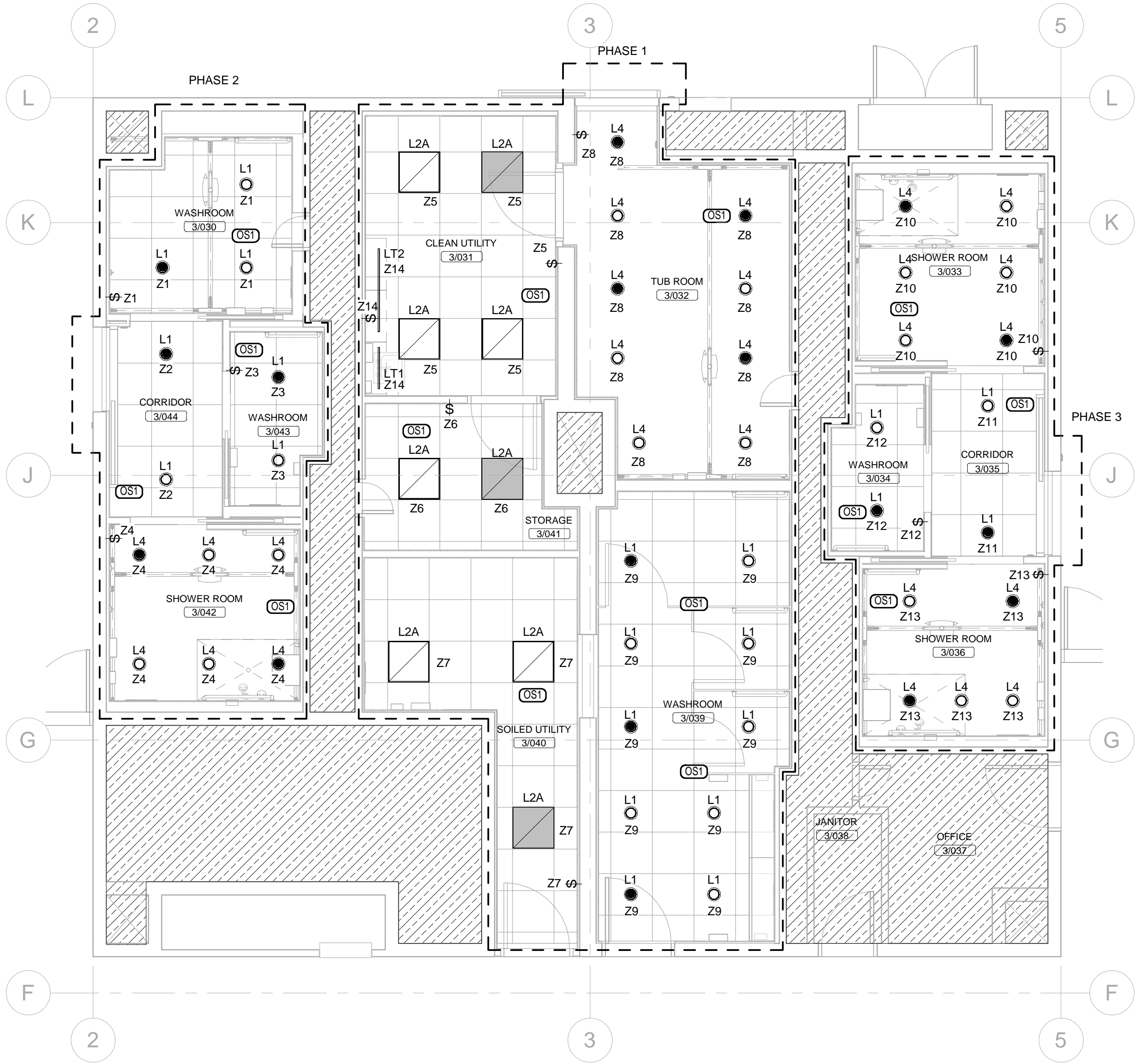
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LEVEL 3 WEST - WASHROOM LIGHTING LAYOUT

1 : 50



GENERAL NOTES

- HATCHED AREAS ARE OUTSIDE THE SCOPE.
- CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUITS.

LIGHTING FIXTURE SCHEDULE

LUMINAIRE TYPE	DESCRIPTION	WATTAGE	VOLTAGE	COLOR TEMPERATURE	MANUFACTURER	MODEL
L1	LED DOWNLIGHT	12	120 V	3500 K	LYTEPROFILE BY LIGHTOLIER	P4R-DL-15-935-W-CL-Z10-U
L2A	RECESSED 2X2	30	120 V	3500 K	DAY-BRITE BY SIGNIFY	2FPZ-20L-835-2-DS-UNV-DIM
L4	WATERPROOF LED DOWNLIGHT	12	120 V	3500 K	LYTEPROFILE BY LIGHTOLIER	P4R-SL-15-935-W-WH-Z10-U
LT1	24" UNDER CABINET	13	120 V	3500 K	VISIONEERING	LTL24-LED-835K016LUNV-F06
LT2	48" UNDER CABINET	26	120 V	3500 K	VISIONEERING	LTL48-LED-835K030LUNV-F06

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WYCHWOOD TOWERS

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LEVEL 3 WEST -
WASHROOM LIGHTING
LAYOUT

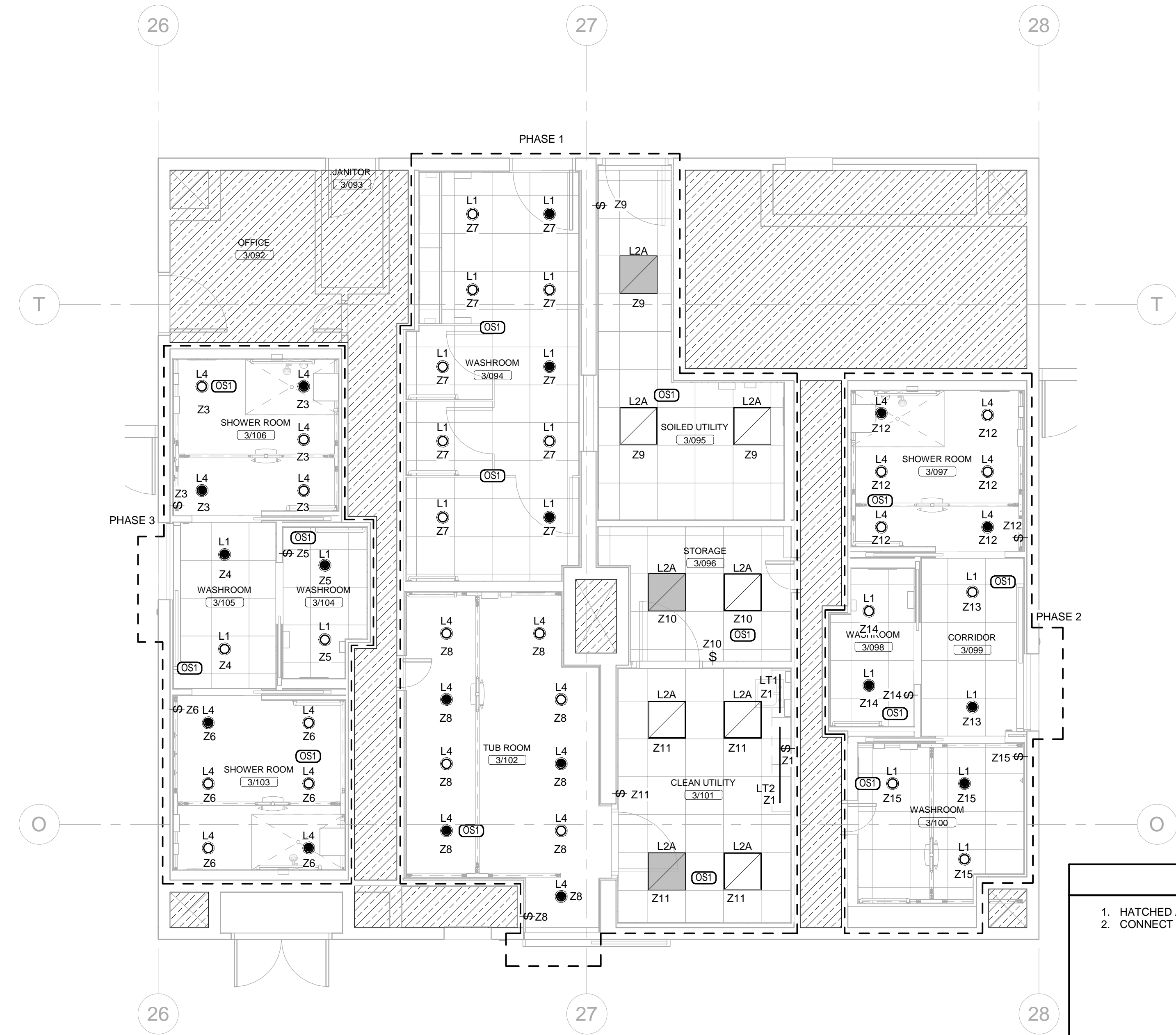
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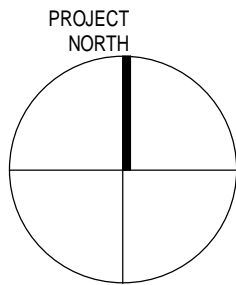
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- GENERAL NOTES
- HATCHED AREAS ARE OUTSIDE THE SCOPE.
 - CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUITS.

LIGHTING FIXTURE SCHEDULE						
LUMINAIRE TYPE	DESCRIPTION	WATTAGE	VOLTAGE	COLOR TEMPERATURE	MANUFACTURER	MODEL
L1	LED DOWNLIGHT	12	120 V	3500 K	LYTEPROFILE BY LIGHTOLIER	P4R-DL-15-935-W-CL-Z10-U
L2A	RECESSED 2X2	30	120 V	3500 K	DAY-BRITE BY SIGNIFY	2FPZ-20L-835-2-DS-UNV-DIM
L4	WATERPROOF LED DOWNLIGHT	12	120 V	3500 K	LYTEPROFILE BY LIGHTOLIER	P4R-SL-15-935-W-WH-Z10-U
LT1	24" UNDER CABINET	13	120 V	3500 K	VISIONEERING	LTL24-LED-835K016LUNV-F06
LT2	48" UNDER CABINET	26	120 V	3500 K	VISIONEERING	LTL48-LED-835K030LUNV-F06



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5	2024-10-10	ISSUED FOR CLIENT REVIEW	MB
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3	2024-08-23	ISSUED FOR COORDINATION	MB
2	2024-08-08	ISSUED FOR COORDINATION	MB
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WYCHWOOD TOWERS

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LEVEL 3 EAST -
WASHROOM LIGHTING
LAYOUT

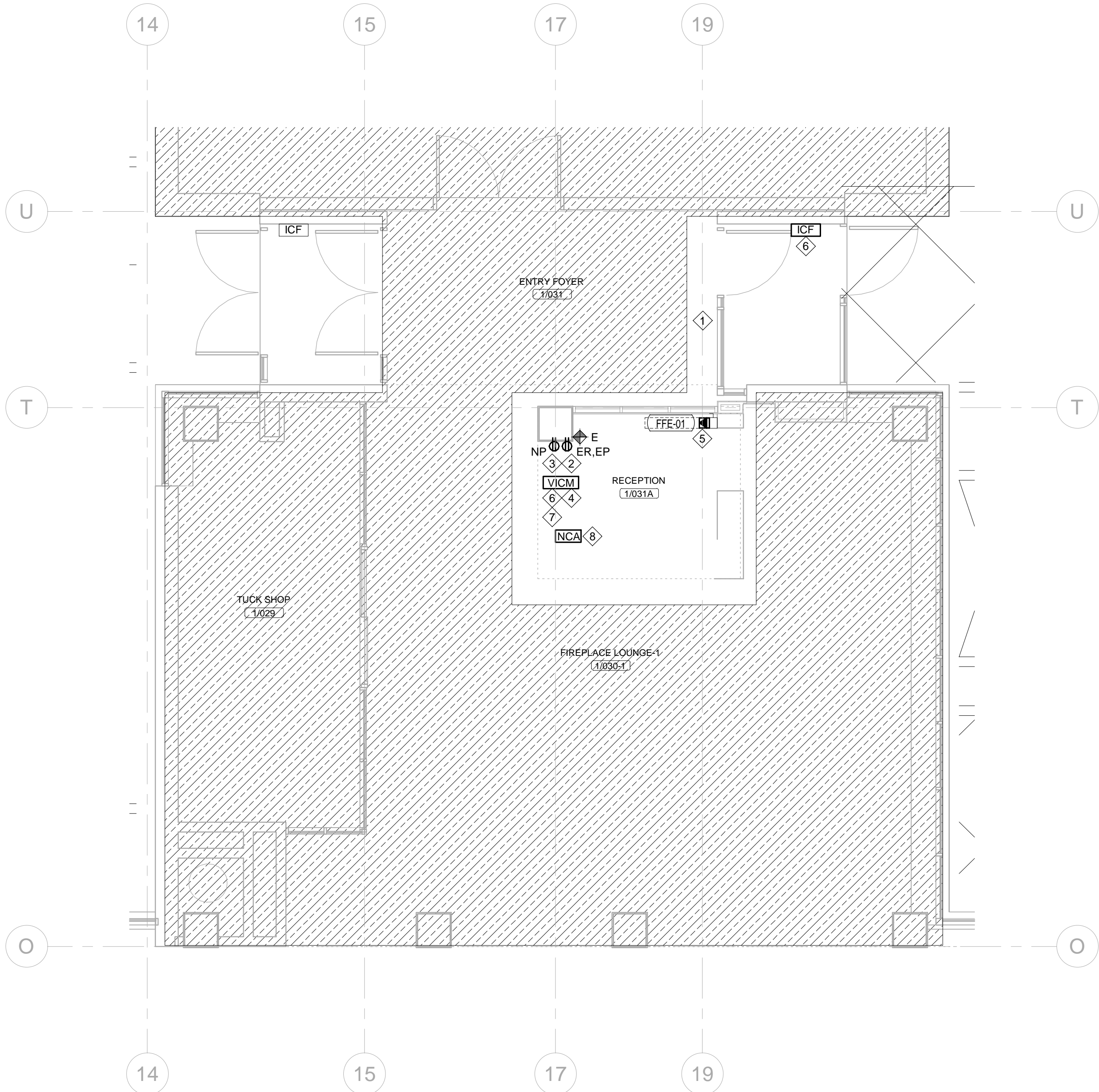
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CEL Job Number:	24503
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Drawing Number:

E202

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KEYNOTES (SHOWN AS ◇) E300	
No.	Description
1	RELOCATE EXISTING PATIENT WANDERING SENSOR CONFLICTING WITH NEW GLASS WALL TO THIS LOCATON.
2	CONNECT EMERGENCY POWERED RECEPTACLE TO PANEL LP-E1 LOCATED IN THE MAIN ELECTRICAL ROOM IN THE BASEMENT
3	CONNECT RECEPTACLE TO EXISTING CIRCUIT IN RECEPTION.
4	ENSURE MASTER INTERCOM STATION INCLUDES TWO (2) NEW DOOR RELEASE BUTTONS THAT INTEGRATES WITH EXISTING SECURITY DEVICES. ONE TO RELEASE WEST ENTRANCE DOOR, ONE TO RELEASE THE EAST ENTRANCE DOOR. PROVIDE MATCHING STATION AT LEVEL 01 RNIC ROOM FOR AFTER HOURS USE.
5	PROVIDE NEW 208V, 20A-2P BREAKER AND CIRCUIT FOR MECHANICAL FORCE FLOW ELECTRIC HEATER. CONNECT TO EMERGENCY POWER PANEL LP-E1 IN MAIN ELECTRICAL ROOM IN BASEMENT.
6	CONNECT NEW INTERCOM DEVICES TO EXISTING INTERCOM SYSTEM.
7	ENSURE MASTER STATION CAN ACCESS EXISTING CCTV FEEDS, AND NEW CCTV FROM NEW SECURITY GATES.
8	PROVIDE NEW NURSE CALL STATION AND TIE INTO EXISTING SYSTEM. ENSURE NEW DEVICE IS COMPATIBLE WITH EXISTING SYSTEM.

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LEVEL 1 CENTRAL - POWER AND SYSTEMS LAYOUT

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CEL Job Number: 24503
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Drawing Number:

E300

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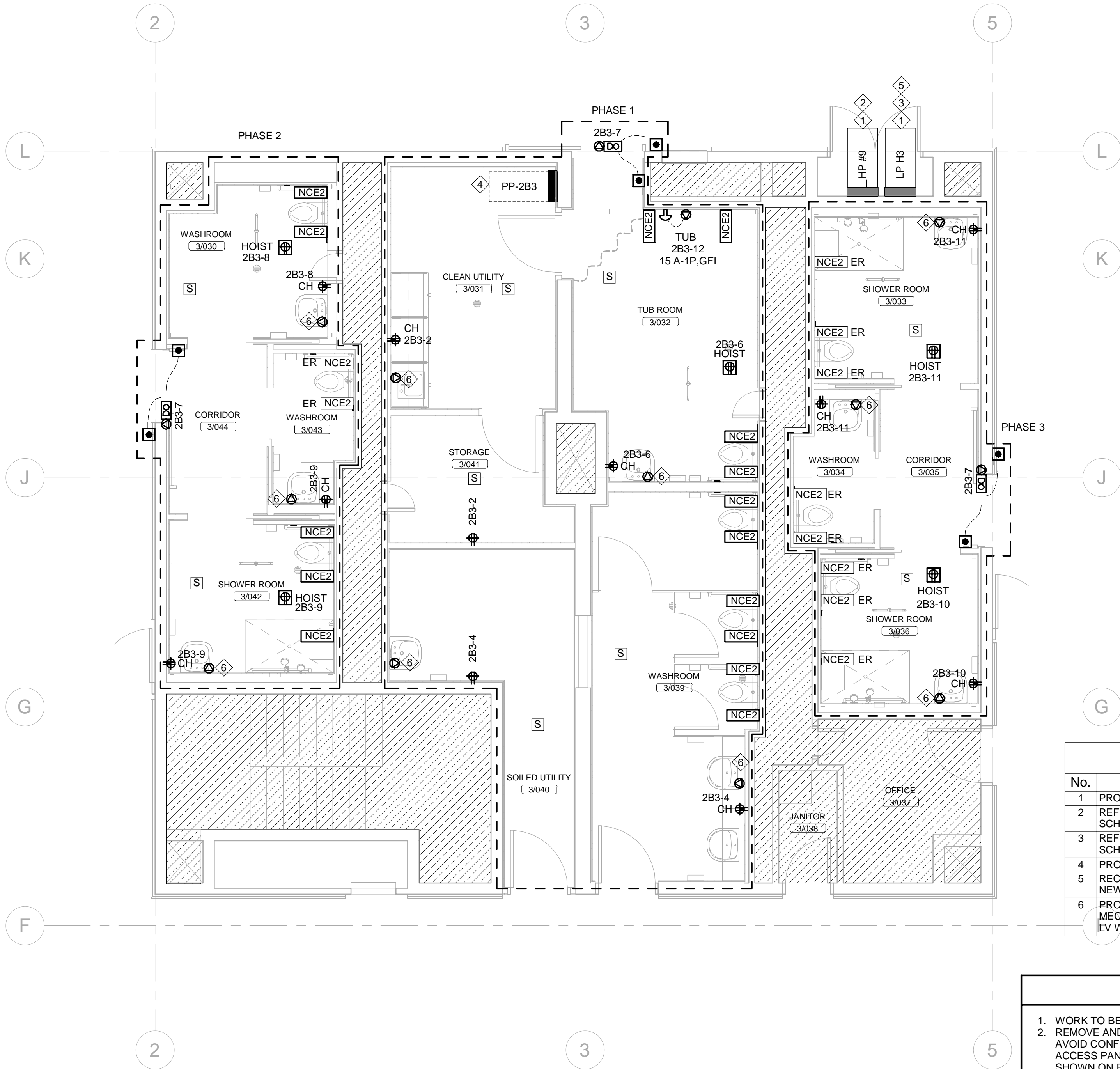
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LEVEL 1 CENTRAL - RECEPTION POWER LAYOUT

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E301
LEVEL 3 WEST - WASHROOM POWER LAYOUT
1 : 50

KEYNOTES (SHOWN AS ◇) E301	
No.	Description
1	PROVIDE NEW UPDATED SCHEDULE WHEN WORK IS COMPLETE.
2	REFER TO DETAIL 1/E901 FOR PHOTOS OF EXISTING PANEL AND PANEL SCHEDULE.
3	REFER TO DETAIL 2/E901 FOR PHOTOS OF EXISTING PANEL AND PANEL SCHEDULE.
4	PROVIDE NEW 120/208V 100A PANEL
5	RECONNECT 3 EXISTING CIRCUITS TO NEW PANEL PP-2B3 TO ALLOW NEW 60A-3P BREAKER TO BE INSTALLED.
6	PROVIDE 120V POWER CONNECTION FOR TOUCHLESS FAUCET POWER. MECHANICAL CONTRACTOR RESPONSIBLE FOR LV TRANSFORMER AND LV WIRING. CONNECT TO SAME CIRCUIT AS NEARBY RECEPTACLE.

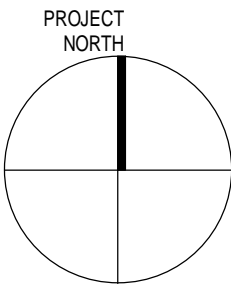
- GENERAL NOTES**
- WORK TO BE COMPLETED IN PHASES AS SHOWN.
 - REMOVE AND REINSTALL EACH FIRE ALARM DEVICE AS REQUIRED TO AVOID CONFLICTS WITH NEW LIGHTS, HOIST, MECHANICAL DIFFUSERS, ACCESS PANELS, ETC. PROVIDE NEW FIRE ALARM SPEAKER IF SPEAKER SHOWN ON FLOOR PLAN IS MISSING IN ROOM AND CONNECT TO EXISTING FIRE ALARM CIRCUIT.
 - RELOCATE EXISTING PA SPEAKERS AS REQUIRED TO AVOID CONFLICTS WITH NEW LIGHTS, HOIST, MECHANICAL DIFFUSERS, ACCESS PANELS, ETC.
 - REUSE EXISTING NURSE CALL DEVICES WHEN POSSIBLE. PROVIDE NEW NURSE CALL DVICES AS REQUIRED. ENSURE NEW NURSE CALL DEVICES ARE COMPATIBLE WITH EXISTING SYSTEM. GROUP EXISTING DEVICES WITH OTHER EXISTING DEVICES IN THE SAME ROOM, AND NEW DEVICES WITH OTHER NEW DEVICES WITHIN THE SAME ROOM.
 - MOUNT ONE (1) NURSE CALL DEVICE ON SIDE WALL BESIDE TOILET IF THE TOILET IS LOCATED IN A CORNER.

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WYCHWOOD TOWERS

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LEVEL 3 WEST -
WASHROOM POWER
AND SYSTEMS LAYOUT

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Drawing Number:

E301

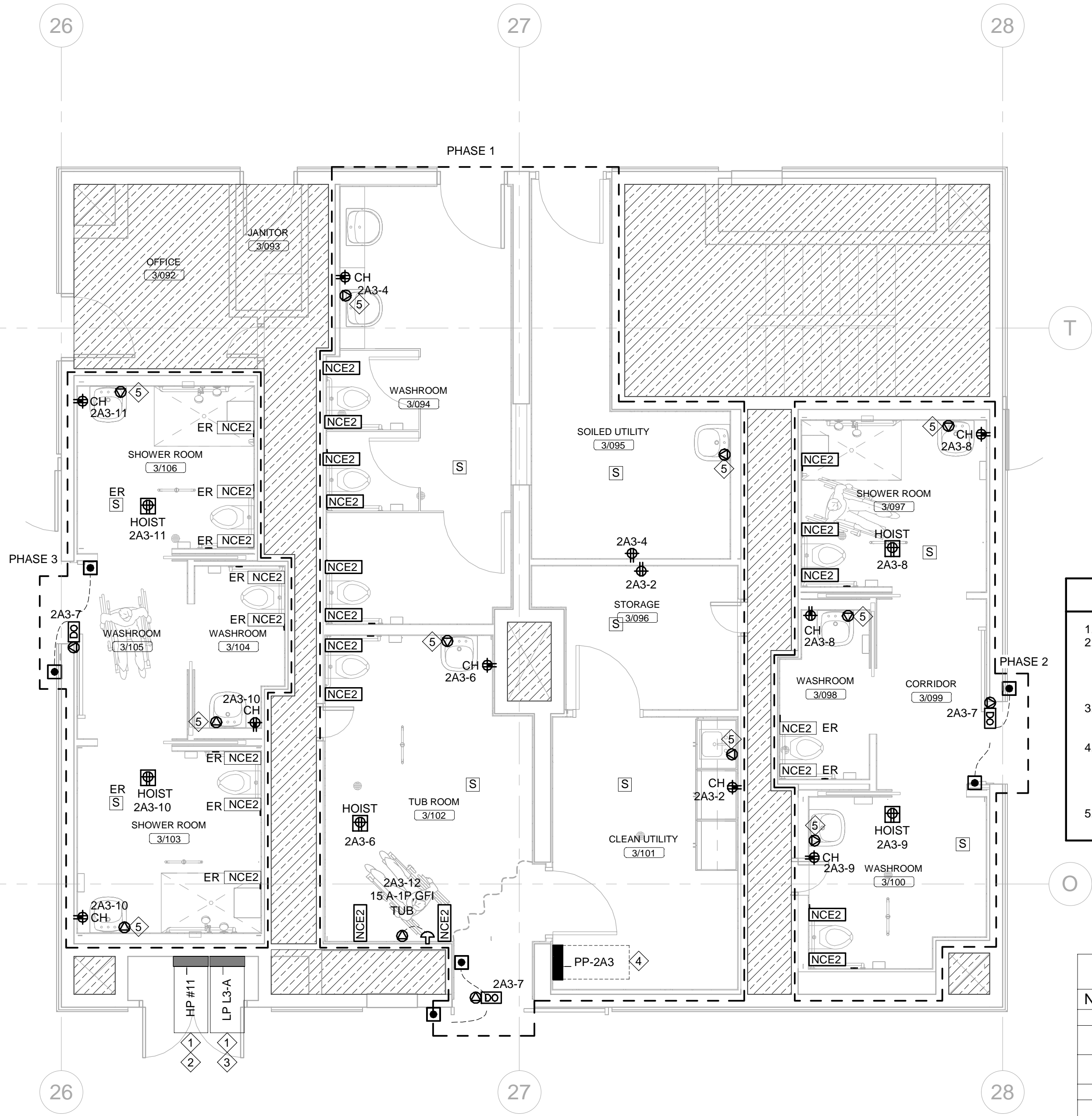
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E302

LEVEL 3 EAST - WASHROOM POWER LAYOUT

1 : 50



GENERAL NOTES

1. WORK TO BE COMPLETED IN PHASES AS SHOWN.
2. REMOVE AND REINSTALL EACH FIRE ALARM DEVICE AS REQUIRED TO AVOID CONFLICTS WITH NEW LIGHTS, HOIST, MECHANICAL DIFFUSERS, ACCESS PANELS, ETC. PROVIDE NEW FIRE ALARM SPEAKER IF SPEAKER SHOWN ON FLOOR PLAN IS MISSING IN ROOM AND CONNECT TO EXISTING FIRE ALARM CIRCUIT.
3. RELOCATE EXISTING PA SPEAKERS AS REQUIRED TO AVOID CONFLICTS WITH NEW LIGHTS, HOIST, MECHANICAL DIFFUSERS, ACCESS PANELS, ETC.
4. REUSE EXISTING NURSE CALL DEVICES WHEN POSSIBLE. PROVIDE NEW NURSE CALL DVICES AS REQUIRED. ENSURE NEW NURSE CALL DEVICES ARE COMPATIBLE WITH EXISTING SYSTEM. GROUP EXISTING DEVICES WITH OTHER EXISTING DEVICES IN THE SAME ROOM, AND NEW DEVICES WITH OTHER NEW DEVICES WITHIN THE SAME ROOM.
5. MOUNT ONE (1) NURSE CALL DEVICE ON SIDE WALL BESIDE TOILET IF THE TOILET IS LOCATED IN A CORNER.

KEYNOTES (SHOWN AS ◇) E302

No.	Description
1	PROVIDE NEW UPDATED SCHEDULE WHEN WORK IS COMPLETE.
2	REFER TO DETAIL 1/E900 FOR PHOTOS OF EXISTING PANEL AND PANEL SCHEDULE.
3	REFER TO DETAIL 2/E900 FOR PHOTOS OF EXISTING PANEL AND PANEL SCHEDULE.
4	PROVIDE NEW 120/208V 100A PANEL.
5	PROVIDE 120V POWER CONNECTION FOR TOUCHLESS FAUCET POWER. MECHANICAL CONTRACTOR RESPONSIBLE FOR LV TRANSFORMER AND LV WIRING. CONNECT TO SAME CIRCUIT AS NEARBY RECEPTACLE.

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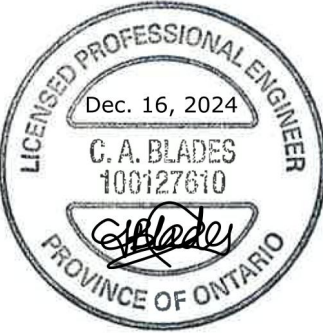
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3 2024-08-23 ISSUED FOR COORDINATION MB
2 2024-08-08 ISSUED FOR COORDINATION MB
1 2024-06-26 ISSUED FOR COORDINATION MB
Date: Revision: By
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**CASTLEVIEW
WYCHWOOD TOWERS**

351 CHRISTIE ST, TORONTO, ONTARIO M6G 3C3

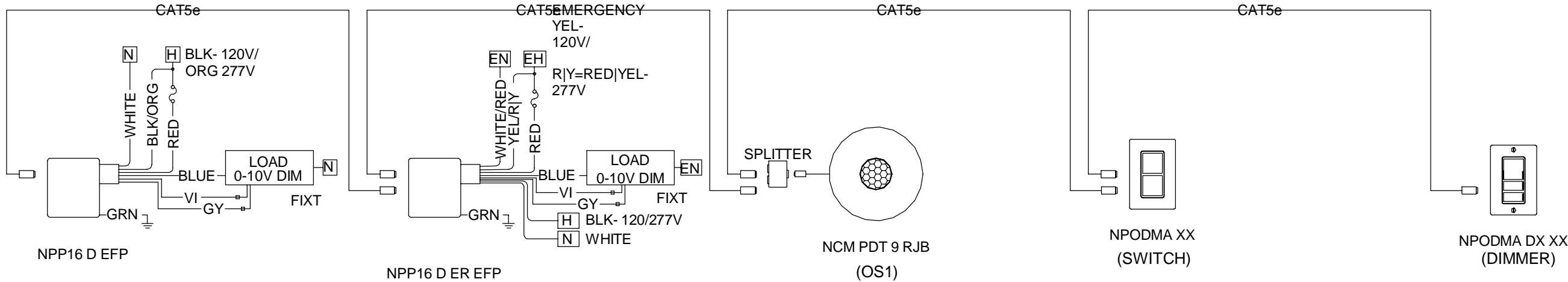
**LEVEL 3 EAST -
WASHROOM POWER
AND SYSTEMS LAYOUT**

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E302

TYPICAL ROOM LIGHTING CONTROL



GENERAL NOTES

1.

RISER REPRESENTS HARDWARE REQUIRED FOR LIGHTING CONTROL IN A TYPICAL ROOM.

2.

SYSTEM IS DESIGNED FOR 0-10V LOCAL CONTROL.

3.

ADJUST QUANTITIES OF MATERIAL TO MATCH LAYOUT DRAWINGS FOR EACH ROOM.

7	2024-12-16	ISSUED FOR TENDER	MB
6	2024-11-08	ISSUED FOR PERMIT	MB
5	2024-10-10	ISSUED FOR CLIENT REVIEW	MB
4	2024-09-30	ISSUED FOR 100% CD	MB
3	2024-08-23	ISSUED FOR COORDINATION	MB
#	Date:	Revision:	By
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WYCHWOOD TOWERS


351 CHRISTIE ST, TORONTO, ONTARIO M6G 3C3


LIGHTING CONTROL
RISER

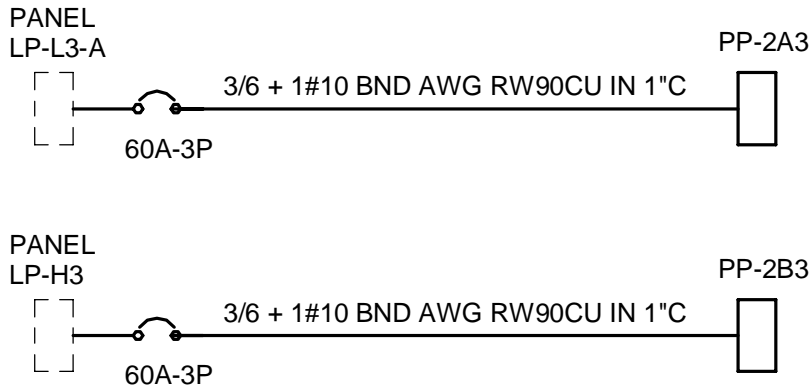
Drawn by:	MB
Reviewed by:	CD
MSA Job Number:	21503.F03
CEL Job Number:	24503
Plot Date:	2024-12-16

Drawing Number:

E600

		CASTLEVIEW WYCHWOOD TOWERS				PANEL SCHEDULE											
						PP - 2A3											
Project Number: 21503.F03						Location: CLEAN UTILITY 3/101				Volts: 208/120V				A.I.C. Rating:			
Mounting: Surface						Phases: 3				Mains Type: MLO				Mains Rating: 60 A			
Enclosure: Type 1						Wires: 4											
Circuit: 24						SPD: Yes											
Supply from:																	
BREAKER	GFI	DESCRIPTION	DF	Cct	A	B	C	A	B	C	Cct	DF	DESCRIPTION	GFI	BREAKER		
30 A - 3P	No	(1)SPD; STORAGE 3/101	100%	1	0.00 kVA			0.60 kVA			2	50%	(2)REC; RM 3/096, 3/101	No	1P - 20 A		
-- -- --	--		--	3		0.00 kVA			0.60 kVA		4	50%	(2)REC; RM 3/094, 3/095	No	1P - 20 A		
-- -- --	--		--	5			0.00 kVA			0.90 kVA	6	50%	(2)REC & HOIST; RM 3/102	No	1P - 20 A		
20 A - 1P	No	(3)DOOR OPERATORS	50%	7	1.50 kVA			1.20 kVA			8	50%	(3)REC & HOIST; RM 3/097, 3/098	No	1P - 20 A		
20 A - 1P	No	(2)REC & HOIST; RM 3/100	50%	9		0.90 kVA			1.20 kVA		10	50%	(3)REC & HOIST; RM 3/103, 3/104	No	1P - 20 A		
20 A - 1P	No	(2)REC & HOIST; RM 3/106	50%	11			0.90 kVA			1.10 kVA	12	50%	(1)50% TUB ROOM 3/102	Yes	1P - 15 A		
-		()		13							14		()		-		
-		()		15							16		()		-		
-		()		17							18		()		-		
-		()		19							20		()		-		
-		()		21							22		()		-		
-		()		23							24		()		-		
					3.30 kVA		2.70 kVA		2.90 kVA								
					28 A		23 A		24 A								
Load Classification			Connected Load		Demand Factor		Estimated...		Panel Totals								
100%			0.00 kVA		0.00%		0.00 kVA										
50%			8.90 kVA		50.00%		4.45 kVA		Total Conn. Load: 8.90 kVA								
									Total Est. Demand: 4.45 kVA								
									Total Conn.: 25 A								
									Total Est. Demand: 12 A								
Notes:																	

		CASTLEVIEW WYCHWOOD TOWERS				PANEL SCHEDULE									
						PP - 2B3									
Project Number: 21503.F03		Location: CLEAN UTILITY 3/031				Volts: 208/120V				A.I.C. Rating:					
Mounting: Surface		Phases: 3				Mains Type: MLO				Mains Rating: 60 A					
Enclosure: Type 1		Wires: 4				SPD: Yes									
Circuit: 24															
Supply from:															
BREAKER	GFI	DESCRIPTION	DF	Cct	A	B	C	A	B	C	Cct	DF	DESCRIPTION	GFI	BREAKER
30 A - 3P	No	(1)SPD; STORAGE 3/031	100%	1	0.00 kVA			0.60 kVA			2	50%	(2)REC; Room 3/040, 3/041	No	1P - 20 A
-- -- --	--		--	3		0.00 kVA			0.60 kVA		4	50%	(2)REC; RM 3/039, 3/040	No	1P - 20 A
-- -- --	--		--	5			0.00 kVA			0.90 kVA	6	50%	(2)REC & HOIST; Room 3/032	No	1P - 20 A
20 A - 1P	No	(3)DOOR OPERATORS	50%	7	1.50 kVA			0.90 kVA			8	50%	(2)REC & HOIST; Room 3/030	No	1P - 20 A
20 A - 1P	No	(3)REC & HOIST; Room 3/043, 3/042	50%	9		1.20 kVA			0.90 kVA		10	50%	(2)REC & HOIST; Room 3/036	No	1P - 20 A
20 A - 1P	No	(3)REC & HOIST; Room 3/033, 3/034	50%	11			1.20 kVA			1.10 kVA	12	50%	(1)TUB; TUB ROOM 3/032	Yes	1P - 15 A
-		()		13							14		()		-
-		()		15							16		()		-
-		()		17							18		()		-
-		()		19							20		()		-
-		()		21							22		()		-
-		()		23							24		()		-
					3.00 kVA		2.70 kVA		3.20 kVA						
					25 A		23 A		27 A						
Load Classification			Connected Load		Demand Factor		Estimated...		Panel Totals						
100%			0.00 kVA		0.00%		0.00 kVA		Total Conn. Load:			8.90 kVA			
50%			8.90 kVA		50.00%		4.45 kVA		Total Est. Demand:			4.45 kVA			
									Total Conn.:			25 A			
									Total Est. Demand:			12 A			
Notes:															



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WYCHWOOD TOWERS

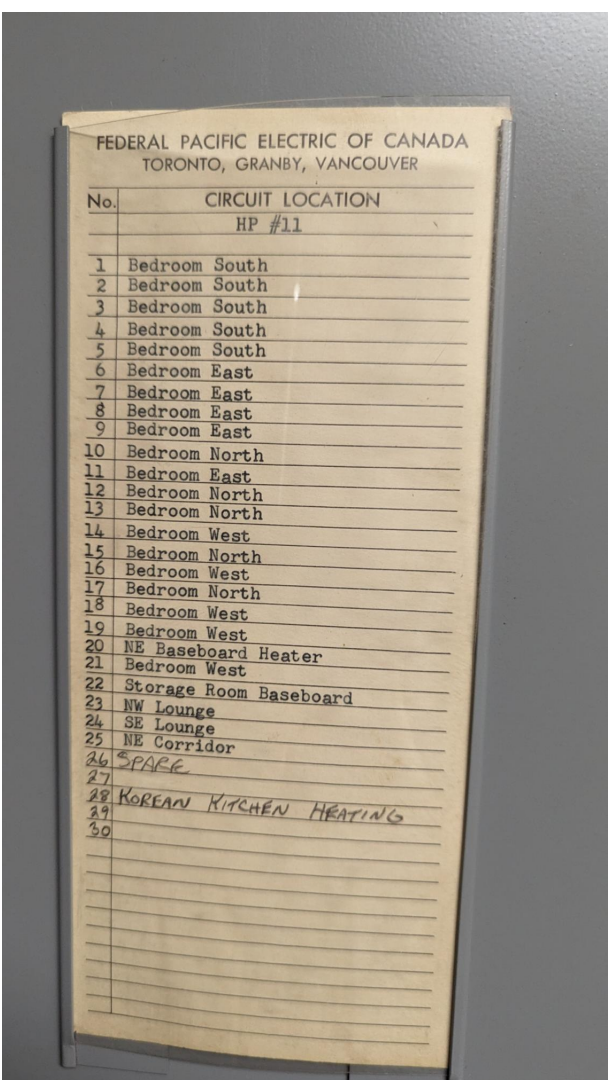
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PANEL SCHEDULES AND
SINGLE LINE DIAGRAM

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E700

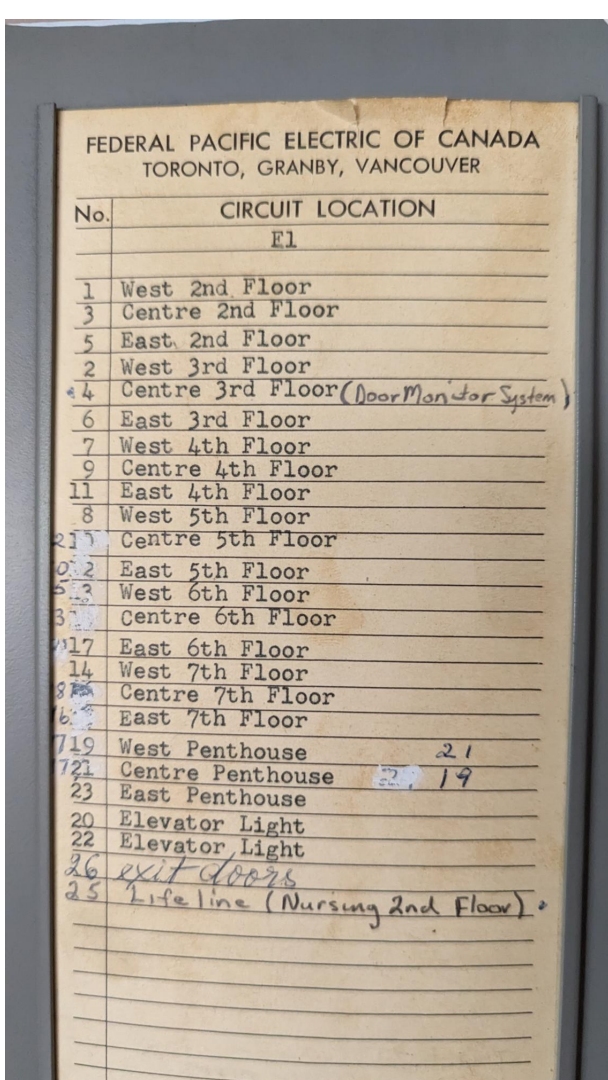
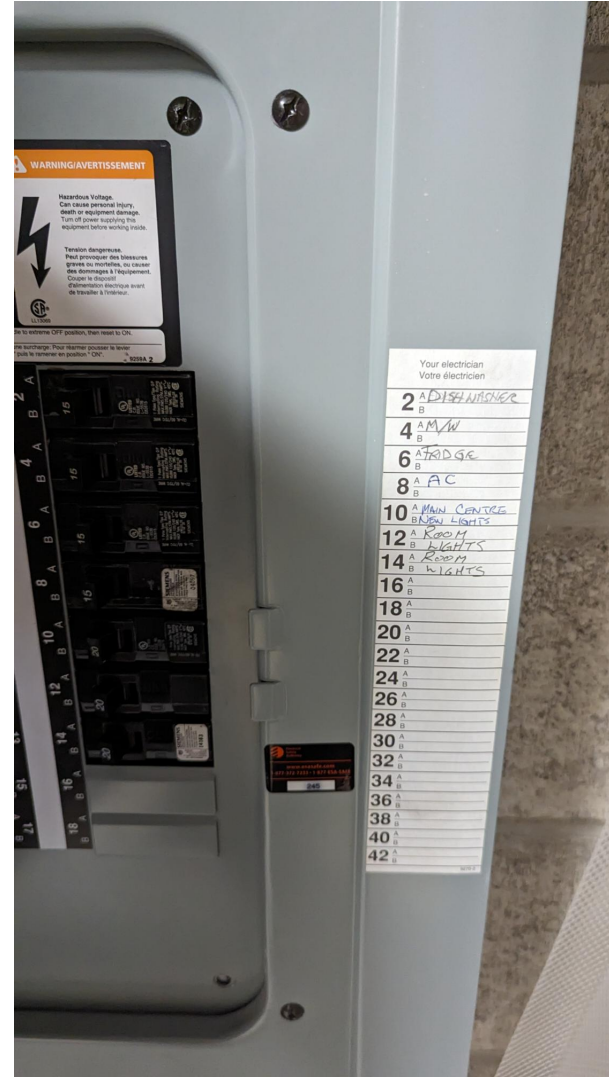
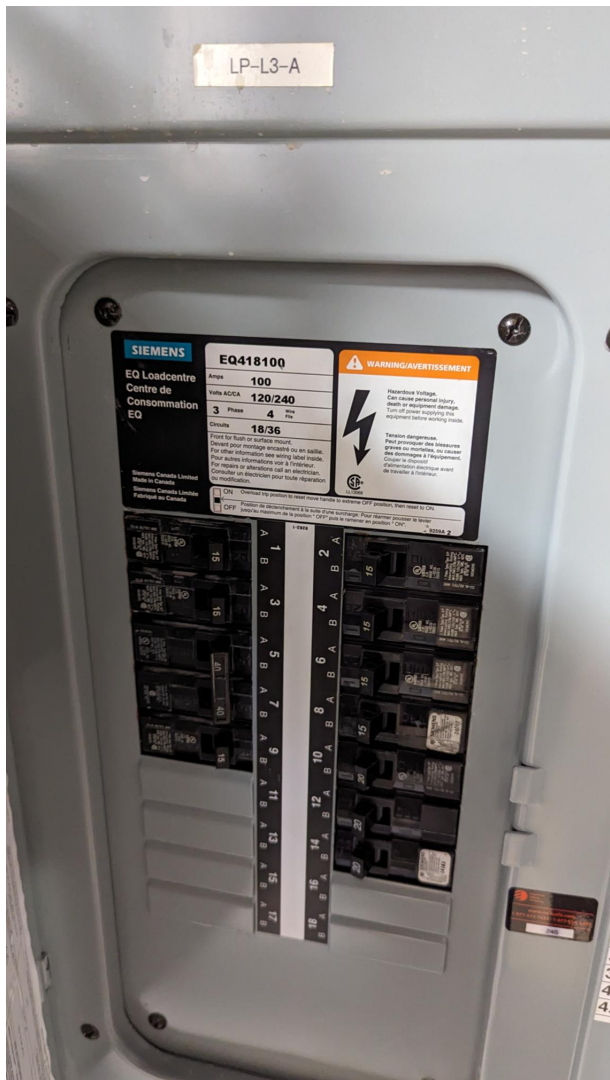


1

Existing Panel HP #11

E900

1 : 10



2

EXISTING PANEL LP-L3-A

E900

1 : 10

3

Existing Panel E1

E900

1 : 10

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**CASTLEVIEW
WYCHWOOD TOWERS**

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ELECTRICAL DETAILS

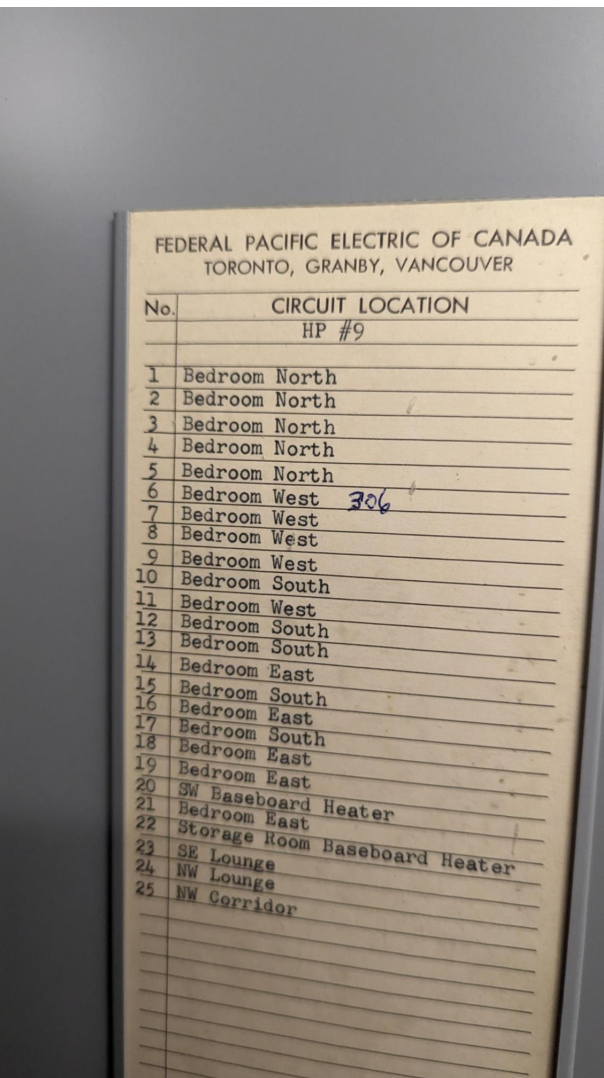
Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E900

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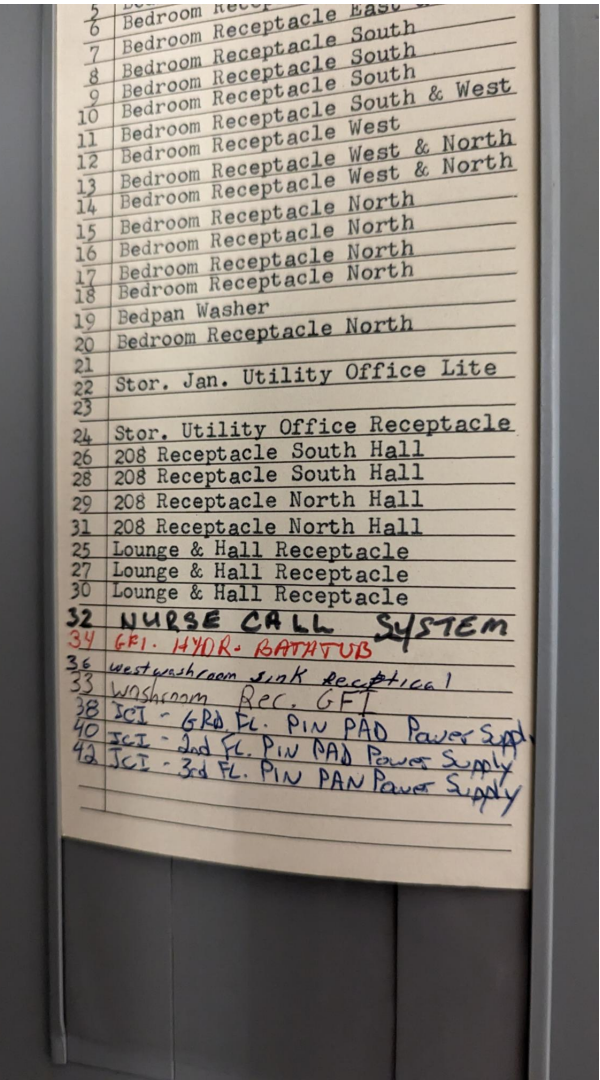
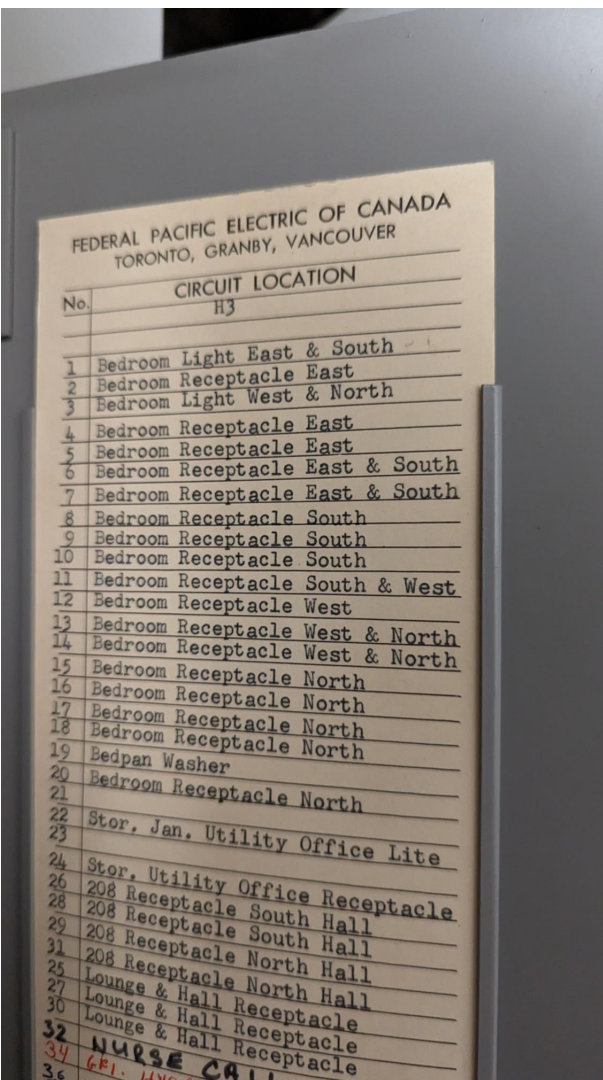
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1
E901

EXISTING PANEL HP #9

1 : 10



2
E901

EXISTING PANEL LP H3

1 : 10

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CASTLEVIEW
WYCHWOOD TOWERS

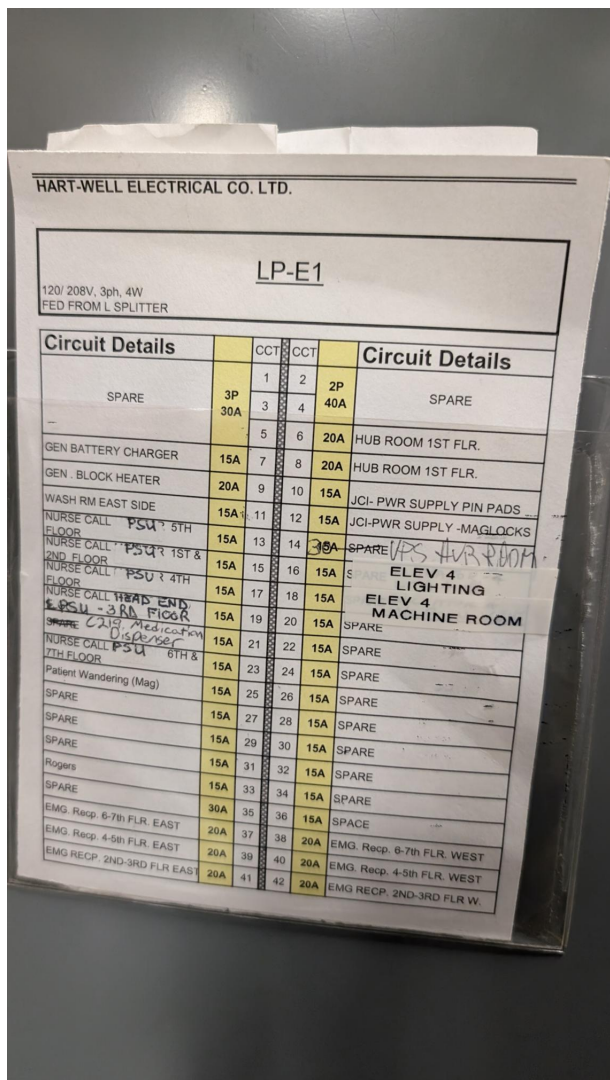
351 CHRISTIE ST. TORONTO, ONTARIO M6G 3C3

ELECTRICAL DETAILS

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E901



1

E902

EXISTING PANEL LP-E1

1 : 10

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5	2024-10-10	ISSUED FOR CLIENT REVIEW	MB
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3	2024-08-23	ISSUED FOR COORDINATION	MB
2	2024-08-08	ISSUED FOR COORDINATION	MB
1	2024-06-26	ISSUED FOR COORDINATION	MB

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CASTLEVIEW
WYCHWOOD TOWERS

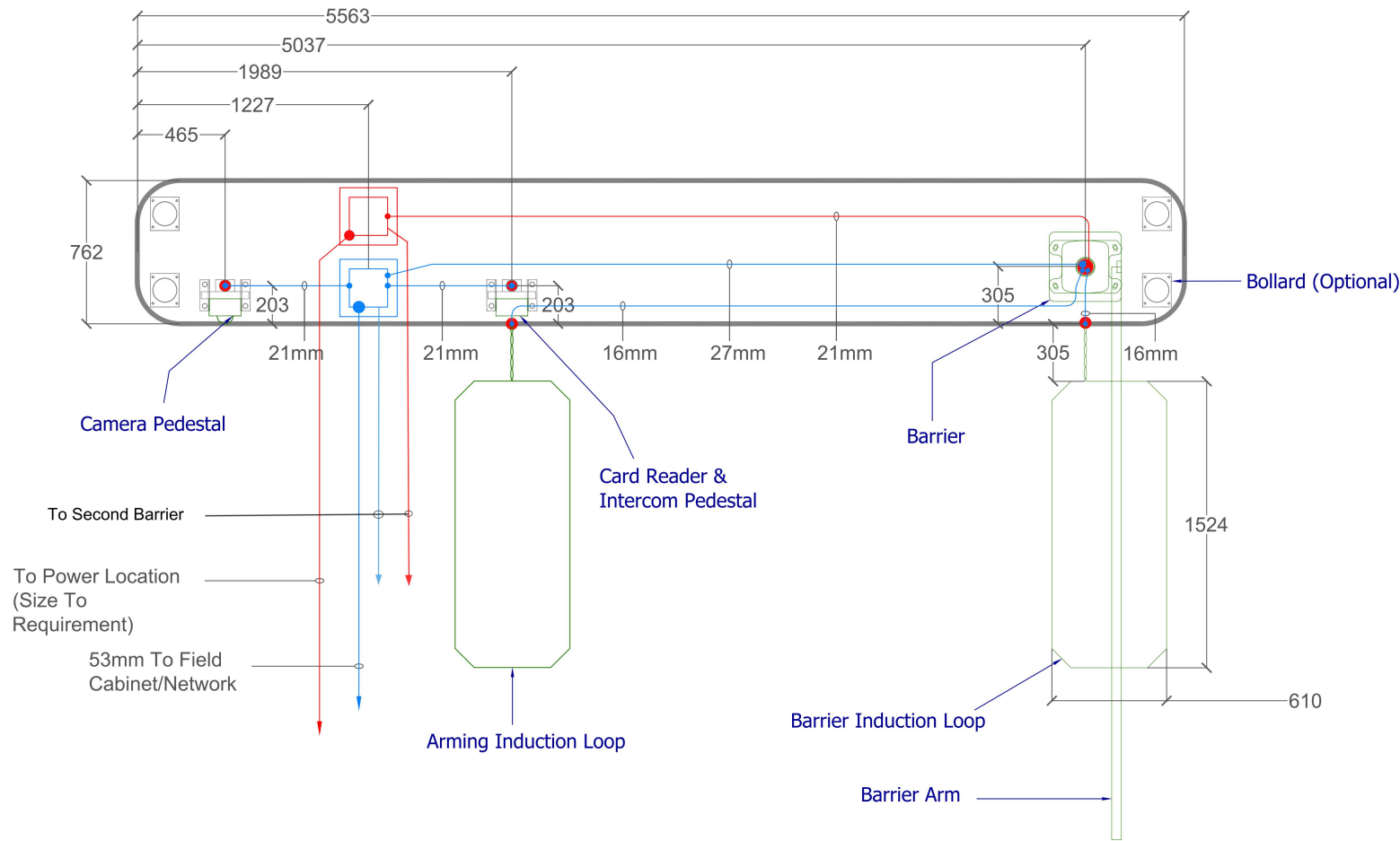
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ELECTRICAL DETAILS

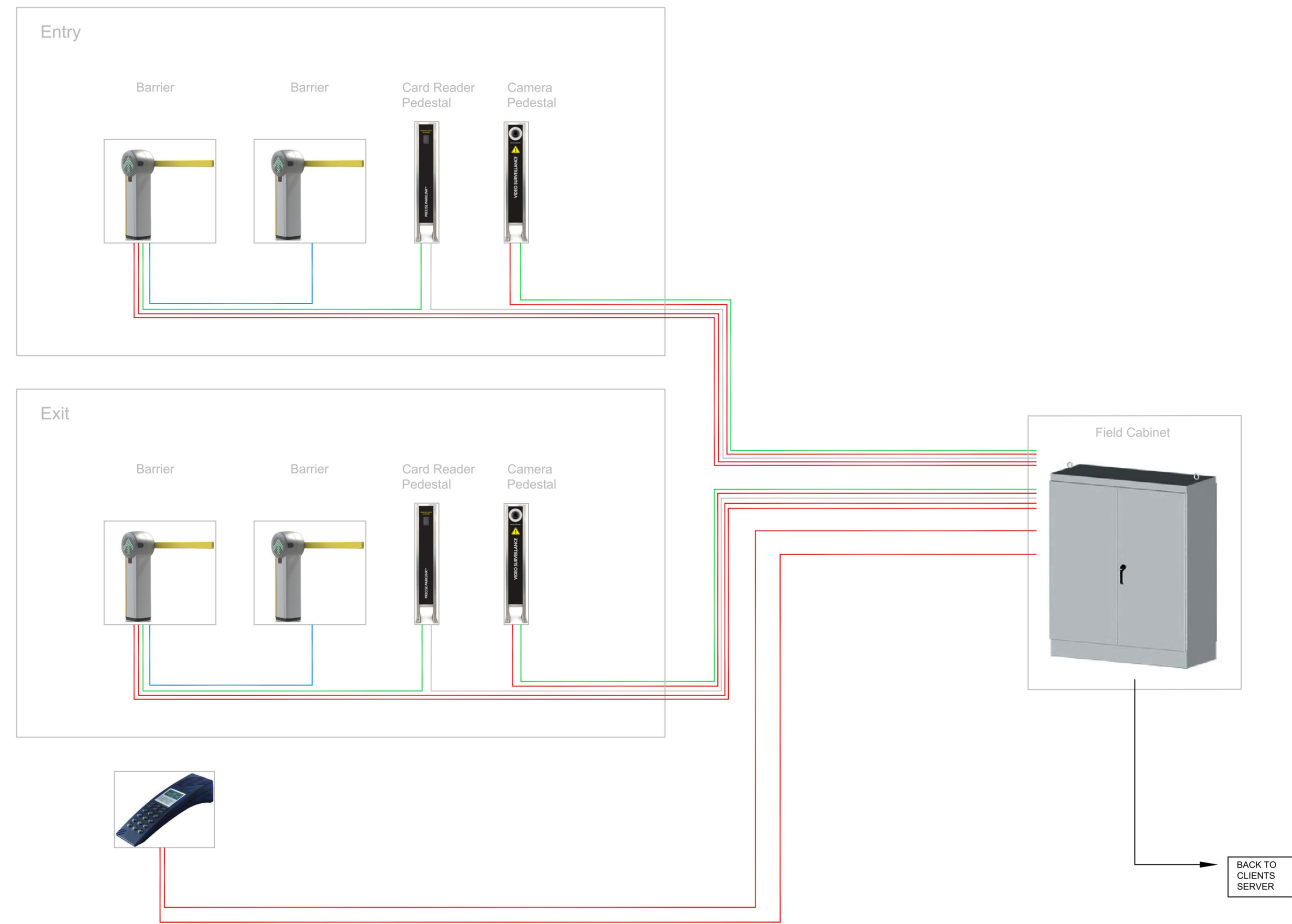
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Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

E902



1 SECURITY GATE CONDUITS DETAIL 1
E903 N.T.S.



2 SECURITY GATE CONDUITS DETAIL 2
E903 N.T.S.

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**CASTLEVIEW
WYCHWOOD TOWERS**

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**SECURITY GATE
DETAILS**

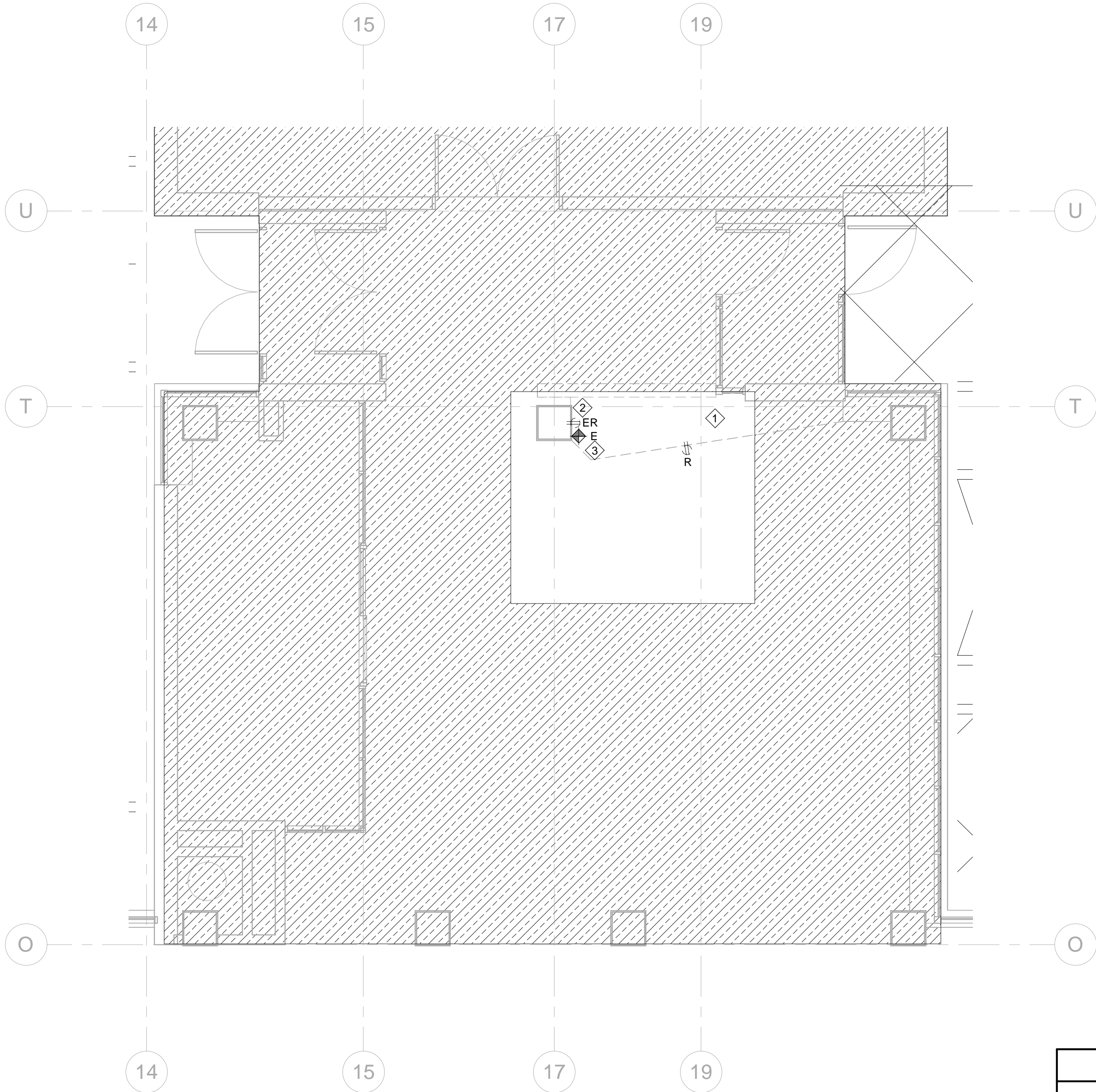
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Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date:

Drawing Number:

E903

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KEYNOTES (SHOWN AS ◇) ED30	
No.	Description
1	EXISTING PATIENT WANDERING SENSOR LOCATED HERE. DEVICE TO BE RELOCATED TO AVOID CONFLICT WITH NEW WALL.
2	EXISTING RED BUTTON IS LOCATED ON WALL. TRACE WIRING TO DETERMINE WHAT SYSTEM IT IS CONNECTED TO.
3	EXISTING DATA RECEPTACLE TO REMAIN

GENERAL NOTES	
1.	HATCHED AREAS ARE OUTSIDE OF SCOPE.
2.	REMOVE AND MAKE SAFE ALL RECEPTACLES. TRACE CIRCUITS BACK TO PANEL, REMOVE WIRING, AND CLEARLY IDENTIFY BREAKERS THAT ARE NOW SPARE.
3.	DISCONNECT AND STORE ALL EXISTING NURSE CALL DEVICES. NURSE CALL DEVICES TO BE REUSED IN CONSTRUCTION.
4.	DISCONNECT AND REINSTALL ALL FIRE ALARM SPEAKERS AS REQUIRED TO COMPLETE DEMOLITION IN AREA.
5.	REMOVE AND MAKE SAFE ALL LIGHT FIXTURES. EXISTING LIGHTING CIRCUITS WILL BE REUSED FOR NEW LIGHT FIXTURES.
6.	REMOVE AND MAKE SAFE ALL LIGHTING CONTROL DEVICES (SWITCHES, DIMMERS, OCCUPANCY SENSORS, ETC.)
7.	REMOVE AND REINSTALL ANY PA SPEAKERS WITHIN SCOPE AREA
8.	DO NOT DEMOLISH ANYTHING IN ELECTRICAL CLOSET. CLOSET IS SHOWN ONLY FOR REFERENCE. MAKE SAFE ANY CIRCUITS THAT ARE NO LONGER IN USE.

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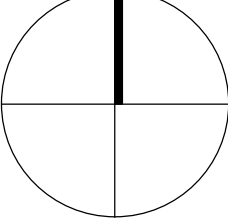
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PROJECT

NORTH



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1	2024-06-26	ISSUED FOR COORDINATION	MB

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CASTLEVIEW
WYCHWOOD TOWERS

351 CHRISTIE ST, TORONTO, ONTARIO M6G 3C3

LEVEL 1 - RECEPTION
DEMO LAYOUT

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

ED0

1

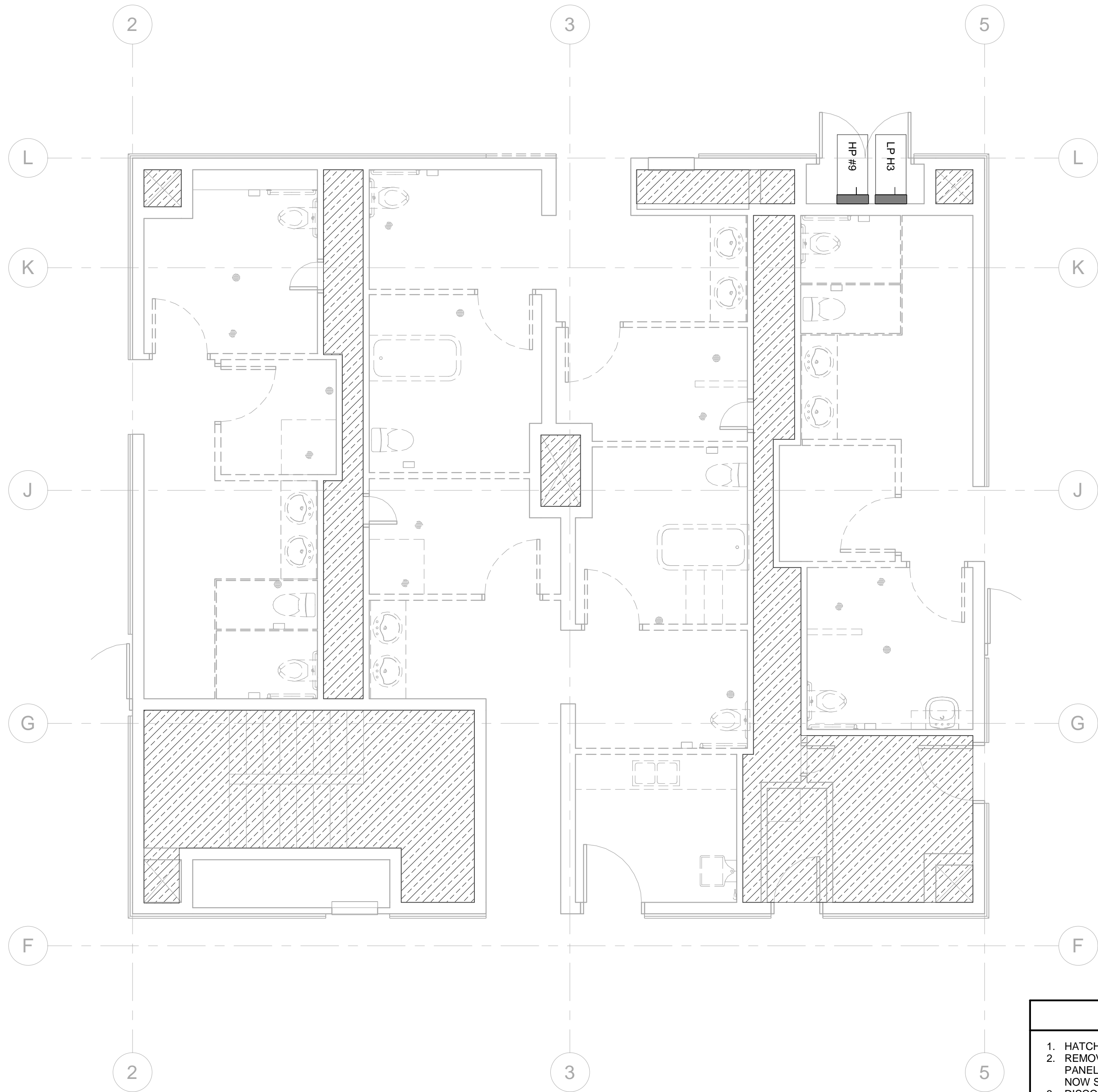
ED0

LEVEL 1 CENTRAL - DEMOLITION POWER LAYOUT

1 : 50

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GENERAL NOTES

1. HATCHED AREAS ARE OUTSIDE OF SCOPE.
2. REMOVE AND MAKE SAFE ALL RECEPTACLES. TRACE CIRCUITS BACK TO PANEL, REMOVE WIRING, AND CLEARLY IDENTIFY BREAKERS THAT ARE NOW SPARE.
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6. REMOVE AND MAKE SAFE ALL LIGHTING CONTROL DEVICES (SWITCHES, DIMMERS, OCCUPANCY SENSORS, ETC.)
7. REMOVE AND REINSTALL ANY PA SPEAKERS WITHIN SCOPE AREA
8. DO NOT DEMOLISH ANYTHING IN ELECTRICAL CLOSET. CLOSET IS SHOWN ONLY FOR REFERENCE. MAKE SAFE ANY CIRCUITS THAT ARE NO LONGER IN USE.

1

ED1

LEVEL 3 WEST - WASHROOM DEMOLITION POWER LAYOUT

1 : 50

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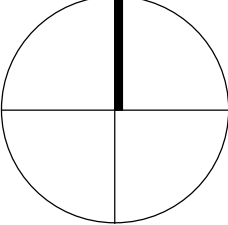
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CASTLEVIEW WYCHWOOD TOWERS

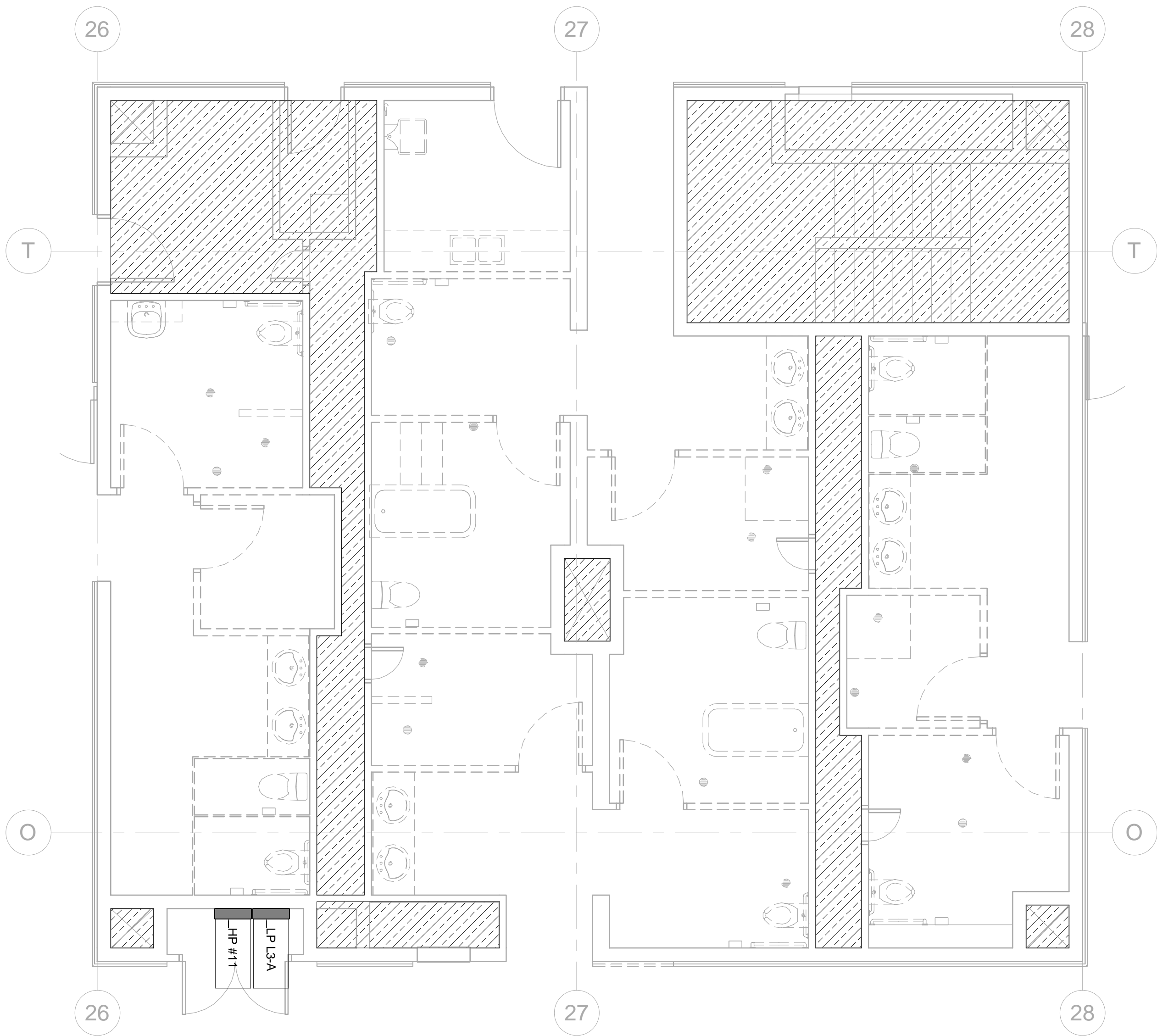
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LEVEL 3 WEST - WASHROOM DEMO LAYOUT

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

ED1



GENERAL NOTES

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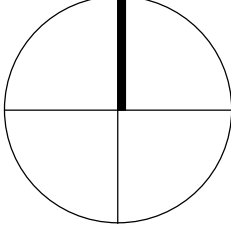
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PROJECT
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CASTLEVIEW
WYCHWOOD TOWERS

351 CHRISTIE ST, TORONTO, ONTARIO M6G 3C3

LEVEL 3 EAST -
WASHROOM DEMO
LAYOUT

Drawn by: MB
Reviewed by: CD
MSA Job Number: 21503.F03
CEL Job Number: 24503
Plot Date: 2024-12-16

Drawing Number:

ED2

LEVEL 3 EAST - WASHROOM DEMOLITION POWER LAYOUT

1 : 50

1

ED2