PRIMARK

Woodfield Mall

ISSUE FOR PERMIT
09/26/22

5 Woodfield Mall
Schaumburg, IL 60173

Gensler
Architect

11 East Madison Street
Suite 300
Chicago, IL 60602
Phone: 312.456.0123

GENERAL NOTES:

1. THE MANAGEMENT AND BUILDING STANDARDS FOR ALTERATION CONSTRUCTION ARE PART OF THIS SECTION AND CONTRACT. ALL WORK PERFORMED HERE UNDER SHALL BE SUBJECT THERETO.
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE BASE BUILDING REQUIREMENTS AND ALL CURRENT APPLICABLE CODES, INCLUDING THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL CODES HAVING JURISDICTION.
3. DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL SUIT FIELD CONDITIONS AND BE COORDINATED WITH ARCHITECT AND ALL TRADES PRIOR TO INSTALLATION.
4. ELECTRICAL CONTRACTOR SHALL SIZE PULL BOXES AND SUPPORT BOXES TO SUIT FIELD CONDITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES AND AVAILABLE PARTITION THICKNESS.
5. FOR EXACT LOCATIONS OF MOTORS AND ASSOCIATED ELECTRICAL EQUIPMENT, DUCT MOUNTED SMOKE DETECTORS, WATERFLOW SWITCHES AND TAMPER SWITCHES. REFER TO MECHANICAL, FIRE PROTECTION AND PLUMBING DOCUMENTS.
6. ALL CONTROL, SIGNAL, MONITORING AND ANNUNCIATING WIRING AND CONDUIT SHALL CONFORM TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS, AND SHALL BE AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL WORK AND REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH THE BUILDING OWNER AND ITS ENGINEER AT LEAST (1) WEEK PRIOR TO WORK AND BE PERFORMED ON PREMIUM RATES.
8. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTS DOCUMENTS FOR EXACT LOCATION, AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ASSOCIATED SWITCHING CONTROLS.
9. PROVIDE ALL WORK INDICATED ON THE DRAWINGS UNLESS SPECIFICALLY NOTED AS BEING FOR COORDINATION ONLY. INDICATIONS OF "LIMITS OF WORK", "EXTENT OF RENOVATION" OR ANY OTHER SUCH NOTATION REFER ONLY TO THE LIMITS OF NEW FINISH WORK. FOR PIPING, CONDUITS, DUCTWORK, EQUIPMENT, ETC., WHICH IS INDICATED OUTSIDE THE MAIN AREA OF RENOVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACCESS TO THE AREA FOR PERFORMING THE WORK. ALL FINISHES ARE TO BE RESTORED TO 'AS IS' OR 'LIKE NEW' CONDITIONS.
10. ANY DAMAGE TO EXISTING PARTITIONS, FLOORS, CEILINGS OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACT SHALL BE MADE GOOD AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THESE CHANGES, WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE THE RESPONSIBILITY OF THE CIRCUIT SHALL BE RECONNECTED AND SERVICE RE-ESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.
12. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THIS WORK. CONTRACTOR SHALL PERFORM THIS PRIOR TO SUBMITTING HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
13. THE ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR AT HIS OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
14. ALL NEW WORK IN OR THROUGH EXISTING OCCUPIED SPACES SHALL BE COORDINATED WITH THE TENANT AND THE BUILDING OWNER OR HIS REPRESENTATIVE. PROVIDE PROPER AND ADEQUATE PROTECTION FOR ALL FURNISHINGS, FIXTURES, ETC.
15. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL NEW PROTECTION DEVICES WITH EXISTING PROTECTION DEVICES UP LINE.
16. DEMOLITION, CUTTING, BURNING, OR CORE DRILLING SHALL BE PERFORMED AND ON OVERTIME BASIS AS DIRECTED BY OWNER, TENANT AND BUILDING MANAGEMENT. CONDUIT PENETRATION IN FLOOR SLAB REQUIRES THE PERMISSION OF THE AFFECTED TENANT ON THE FLOOR BELOW PRIOR TO INSTALLATION.
17. ALL CORE DRILL LOCATIONS SHALL BE COORDINATED WITH EXISTING CONDITIONS IN THE CEILING OF THE FLOOR BELOW (I.E. EXISTING DUCTWORK, PIPING, CONDUITS, ETC.) CORE DRILLING MUST BE PERFORMED DURING OFF HOURS WHEN, AND AS DIRECTED BY THE LANDLORD. ALL CORE DRILL LOCATIONS MUST BE X-RAYED PRIOR TO CORING. DUST PROTECTION MUST BE PROVIDED ON THE FLOOR BELOW DURING CORE DRILLING AND REMOVED DAILY. EXISTING CEILING TILES SHALL BE RE-INSTALLED AND SPACE CLEANED AT THE END OF EACH WORK SHIFT
18. ELECTRICAL CONTRACTOR SHALL ABIDE BY THE IMPROVEMENT/CONSTRUCTION RULES AND REGULATIONS AS LAID DOWN BY THE OWNER. A COPY MAY BE OBTAINED FROM THE BUILDING MANAGEMENT.
19. FOR EXACT LOCATION AND FINISH SURFACE CONDITIONS OF CEILING, WALL, FLOOR MOUNTED DEVICES, REFER TO ARCHITECTURAL DRAWINGS.
20. FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
21. VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO CONNECTION.
22. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT, UNLESS OTHERWISE NOTED.
23. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
24. MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG EXCEPT LIFE SAFETY BRANCH CIRCUIT WIRING WHICH SHALL BE MINIMUM #10 AWG. MAINTAIN MAXIMUM BRANCH CIRCUIT CONDUCTOR LENGTHS AS PER SPECIFICATIONS. INCLUDE GROUND CONDUCTOR DERATINGS.
25. PULL SEPARATE NEUTRAL CONDUCTORS FROM PANELBOARD FOR EACH BRANCH CIRCUIT SERVING FLUORESCENT LIGHTING, ISOLATED GROUND DEVICES, ARC FAULT PROTECTED DEVICES, COMPUTER RECEPTACLES, AND NON-SINUSOIDAL LOADS. DERATE CONDUCTORS PER NEC ACCORDINGLY.
26. PROVIDE GROUNDING PER NEC. ALSO PROVIDE GREEN GROUND WIRE IN ALL BRANCH AND FEEDER CIRCUITS SIZED PER CODE.
27. CONDUIT SHALL BE CONTINUOUS AND COMPLETE BETWEEN PANELS, JUNCTION, OUTLET, PULL AND FIXTURE BOXES. IT SHALL BE KEPT CLEAN AND UNOBSTRUCTED INSIDE WITH ENDS FREE OF BURRS. ALL BENDS AND DIRECTIONS OF RUN WOULD BE MADE WITHOUT IMPEDE PULLING OF WIRE. CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO THE BUILDING LINES. ALL CONDUIT SHALL BE ROUTED CONCEALED IN FINISHED AREAS EXCEPT WHERE OTHERWISE NOTED.
28. WIRES AND CABLES SHALL BE CONTINUOUS WITHOUT SPLICES OR TAPS IN CONDUIT RUNS. ALL WIRING SHALL BE IN CONDUIT OR AS NOTED. ALL SPLICES SHALL BE MADE AT OUTLET BOXES, PULL BOXES OR JUNCTION BOXES. AT ALL JOINTS, CONDUCTORS SHALL BE SPLICED OR JOINED AS TO BE MECHANICALLY AND ELECTRICALLY SECURE.
29. IDENTIFICATION OF NEUTRAL, GROUNDING OF CIRCUITS, NUMBER OF WIRES IN CONDUIT SHALL COMPLY IN ALL RESPECTS WITH THE REQUIREMENTS OF THE CODE.
30. WIRE SHALL NOT BE DRAWN INTO CONDUIT UNTIL ALL WORK WHICH THE PROPERTY FOR THE CONCENTRIS IS COMPLETED.
31. ALL MATERIAL SHALL CONFORM TO NEMA, ANSI, AND U. S. STANDARDS, WHICHEVER APPLIES AND SHALL BEAR THE RECOGNITION LABEL OF UNDERWRITER LABORATORIES, INC.
32. ALL BOXES AND ENCLOSURES SHALL BE SET PLUMB, SQUARE AND SECURELY FASTENED. BOXES IN FINISHED WALLS SHALL BE FLUSH WITH FINISH SURFACE. ALL PULL AND JUNCTION BOXES SHALL BE SIZED PER ARTICLE 314 OF THE NEC.
33. ELECTRICAL CONTRACTOR SHALL BALANCE LOADS BETWEEN PHASES ON ALL PANELBOARDS AND SWITCHBOARDS TO WITHIN 10%.

BUILDING RULES AND REGULATIONS

COMPLIANCE WITH ALL BUILDING RULES AND REGULATIONS SHALL BE PART OF THIS CONTRACT. OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS PRIOR TO SUBMISSION OF BID. DUE TO THE SPECIFIC CONDITIONS OF THIS PROJECT, NOT ALL BUILDING RULES AND REGULATIONS CAN BE OUTLINED AND IDENTIFIED WITHIN THE BUILDING RULES AND REGULATIONS. ADDITIONAL RULES AND REGULATIONS REQUIRED TO SATISFACTORILY PERFORM THE CONSTRUCTION OF THIS PROJECT SHALL BE CONFIRMED WITH THE BUILDING MANAGEMENT AND CONSTRUCTION MANAGER PRIOR TO SUBMISSION OF A BID AND SHALL INCLUDE BUT NOT BE LIMITED TO DELIVERY AND STORING OF MATERIALS, WORK IN AREAS OUTSIDE OF THE DEMISING AREA, WORK TO AND/OR CONNECTIONS TO BUILDING SYSTEMS, STRUCTURE, ETC.

SECURITY NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EMPTY CONDUITS (MINIMUM ½", UON) WITH PULLSTRINGS, CONDUIT SLEEVES, PULLBOXES, BACK BOXES, ETC. FOR AV REQUIREMENTS. REFER TO SECURITY DRAWINGS FOR EXACT REQUIREMENTS.

AV NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EMPTY CONDUITS 2" IN TELEPRESENCE AND CONFERENCE ROOMS AND ½" IN ALL OTHER LOCATIONS) WITH PULLSTRINGS, CONDUIT SLEEVES, PULLBOXES, BACK BOXES, ETC. FOR AV REQUIREMENTS. REFER TO AV DRAWINGS FOR EXACT REQUIREMENTS.

TELECOMMUNICATIONS NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EMPTY CONDUITS (MINIMUM ½", UON) WITH PULLSTRINGS, CONDUIT SLEEVES, PULLBOXES, BACK BOXES, ETC. FOR TELECOM REQUIREMENTS. REFER TO TELECOMMUNICATIONS DRAWINGS FOR EXACT REQUIREMENTS.

GENERAL DEMOLITION NOTES:

1. THIS CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF ELECTRICAL WORK AS DESCRIBED IN THE CONTRACT DRAWINGS SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED EQUITABLE BY THE ARCHITECT.
2. THIS CONTRACTOR SHALL REMOVE AND/OR RELOCATE ALL EXISTING ELECTRICAL WORK WHICH INTERFERES WITH THE NEW ARCHITECTURAL AND ELECTRICAL LAYOUTS IN FULL COORDINATION WITH THE ARCHITECTS DEMOLITION PLANS. ALL SYSTEMS WHICH ARE NO LONGER REQUIRED TO FUNCTION SHALL BE DE-ENERGIZED, DISCONNECTED AND REMOVED BACK TO THE SOURCE OF POWER SUPPLY.
3. THIS CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING ELECTRICAL SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
4. DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
5. THIS CONTRACTOR SHALL REMOVE ALL ELECTRICAL OUTLETS, SWITCHES AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUITS, BACKBOXES, SUPPORTS, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO THE NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO PANELBOARD.
6. ALL RACEWAYS WHICH BECOME EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
7. ALL UNUSED OUTLET BOXES OR CAPPED FLOOR OUTLETS SHALL BE PROVIDED WITH MATCHING BLANK COVERS.
8. PORTIONS OF FEEDER RUNS TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTS, CABLE TYPE, CONDUCTOR AMPACITY, CONDUIT SIZES, ETC.
9. THIS CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECTED DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS. THE CONTRACTOR SHALL FOLLOW CLOSELY THE ARCHITECTS DEMOLITION AND PHASING SCHEDULE AND PROCEED IN THE SPECIFIED SEQUENCE.
10. ALL DEMOLITION WORK AND REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH THE BUILDING OWNER AND ITS ENGINEER AT LEAST (1) WEEK PRIOR TO WORK AND BE PERFORMED ON PREMIUM RATES.
11. ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR, AS DIRECTED BY THE OWNER.
12. EXISTING PANEL DIRECTORIES AFFECTED BY THE ALTERATION WORK SHALL BE MODIFIED TO REFLECT THE BRANCH CIRCUIT WIRING CHANGES.
13. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT EXTENT OF DEMOLITION WORK.
14. DISCONNECT AND REMOVE ALL EXISTING INTERIOR LIGHTING FIXTURES, SWITCHES, MOTION SENSORS, BACK BOXES, CONDUIT AND WIRING BACK TO PANEL (TYPICAL FOR ALL AREAS SLATED FOR DEMOLITION).
15. DISCONNECT AND REMOVE ALL EXISTING RECEPTACLES, SURFACE RACEWAYS, BACKBOXES, CONDUIT AND WIRING INCLUDING FURNITURE SYSTEMS (DEVICES, BACKBOXES, FLOOR BOXES, WHIPS, ETC.) BACK TO PANEL (TYPICAL FOR ALL AREAS SLATED FOR DEMOLITION).
16. VOICE/DATA WIRING REMOVED BY ELECTRICAL CONTRACTOR. COORDINATE CABLE REMOVAL WITH OWNER'S IT DEPARTMENT. DISCONNECT AND REMOVE ALL EXISTING VOICE/DATA JUNCTION BOXES AND RACEWAYS BACK TO NEAREST TELECOMMUNICATIONS ROOM.
17. DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, DISCONNECT SWITCHES, OUTLETS, BACK BOXES, CONDUIT AND WIRING FOR ABANDONED EQUIPMENT BACK TO RESPECTIVE PANEL (TYPICAL FOR ALL EQUIPMENT TO BE REMOVED).
18. DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, DISCONNECT SWITCHES, OUTLETS, CONDUIT AND WIRING FOR HVAC EQUIPMENT BACK TO PANEL (TYPICAL FOR ALL EQUIPMENT TO BE REMOVED).
19. DISCONNECT AND REMOVE ALL FINAL CONNECTIONS, DISCONNECT SWITCHES, OUTLETS, CONDUIT AND WIRING FOR PLUMBING EQUIPMENT BACK TO PANEL (TYPICAL FOR ALL EQUIPMENT TO BE REMOVED).
20. DISCONNECT AND REMOVE ALL EXISTING FIRE ALARM DEVICES, BACK BOXES, CONDUIT AND WIRING BACK TO RESPECTIVE FIRE ALARM TERMINAL CABINET (TYPICAL FOR ALL AREAS SLATED FOR DEMOLITION).
21. MAINTAIN/RECONNECT ALL EXISTING FIRE ALARM DEVICES, WIRING AND EQUIPMENT DISTURBED DURING CONSTRUCTION WHICH IS PART OF THE BASE BUILDING'S ELECTRICAL SYSTEM (TYPICAL FOR ALL AREAS).
22. MAINTAIN/RECONNECT ALL EXISTING BRANCH CIRCUIT WIRING DISTURBED DURING CONSTRUCTION, WHICH IS PART OF THE BASE BUILDING'S ELECTRICAL SYSTEMS.
23. CUT ALL EXISTING ABANDONED CONDUITS AT THE FLOOR AND SAFE-CPF
24. DISCONNECT, REMOVE, RELOCATE AND REWIRE ANY EXISTING BRANCH CIRCUITS DISTURBED DURING REMOVAL OF EXISTING WALLS THAT RISE VERTICALLY THRU THE FLOOR AND IS PART OF THE EXISTING BASE BUILDING'S ELECTRICAL SYSTEMS.
25. DISCONNECT AND REMOVE ALL EXISTING SECURITY CAMERAS, CARD READERS, INTERCOMS, SECURITY PANELS, CONDUITS, WIRING, JUNCTION BOXES AND WIREWAYS BACK TO SOURCE. COORDINATE WITH IT DEPARTMENT PRIOR TO REMOVAL.
26. REFER TO DEMOLITION SINGLE LINE POWER RISER DIAGRAM ON E-500 FOR ADDITIONAL INFORMATION.

OVERTIME WORK

ALL WORK THAT IS REQUIERD TO BE PERFORMED ON AN OVERTIME BASIS SHALL BE INCLUDED WITHIN THE BID. WORK REQUIRED TO BE PERFORMED ON AN OVERTIME BASIS SHALL BE COORDINATED WITH THE BUILDING MANAGEMENT AND WITH THE CONSTRUCTION MANAGER AND SHALL INCLUDE BUT NOT BE LIMITED TO WORK WITHIN THE BUILDING AREAS INCLUDING THE FIRE COMMAND STATION, CONNECTIONS TO OR MODIFICATIONS TO BUILDING SERVICES AND SYSTEMS, NOISY WORK OR OTHER WORK OBJECTIONABLE TO THE BUILDING MANAGEMENT AND WORD KWITHIN OTHER TENANT SPACES.

LIGHTING CONTROL NOTES:

PROGRAMMING OF THE LIGHTING SHALL BE PER THE SPECIFIC REQUIREMENTS OF PRIMARK WHICH MAY SPECIFICALLY BE DETERMINED NEAR THE END OF CONSTRUCTION. IN ORDER FOR THE CONTRACTOR TO QUANTIFY THE REQUIRED PROGRAMMING, THE FOLLOWING SHOULD BE USED AS A GUIDE FOR THE LINELY LIGHTING CONTROL REQUIREMENTS:

ON OPENING THE STORE IN THE MORNING, THE FINAL EXIT KEY SWITCH, WHICH IS TO BE SITUATED AT ONE OF THE MAIN ENTRANCE DOORS TO THE STORE AND SHALL BE DETERMINED AT A LATER DATE, WILL INITIATE THE 1ST 33% OF THE SALES FLOOR GENERAL LIGHTING AND THE BACK OF HOUSE LIGHTING. THE 2ND 33% OF THE SALES FLOOR GENERAL LIGHTING WILL BE ENERGIZED AT A PRE-DETERMINED TIME PRIOR TO THE STORE OPENING (NORMALLY 15 MINUTES BEFORE STORE OPENING) AND THE FINAL 33% SALES FLOOR GENERAL LIGHTING WILL BE ENERGIZED APPROXIMATELY 5 MINUTES BEFORE THE STORE OPENING TIME SPECIFIED FOR EACH DAY WHICH MAY BE DIFFERENT FOR CERTAIN DAYS. THIS OPERATION IS REVERSED AT THE END OF THE DAY AT AGREED TIME PERIODS. AN ADDITIONAL FEATURE OF PRIMARK'S REQUIREMENTS IS THAT EACH OF THE ABOVE 3 OPERATIONS ARE SEQUENTIALLY ALTERNATED ON A DAILY BASIS, TO MAINTAIN LAMP LIFE. THIS FEATURE IS CARRIED OUT BY THE USE OF SIGNALS FROM THE BMS PANEL, AND A SERIES OF CONTROL CONTACTORS CONTAINED WITHIN THE LIGHTING CONTROL SECTION OF THE LOCAL LIGHTING DISTRIBUTION BOARD PANELS. THE LIGHTING CONTROL SWITCHING IS CARRIED OUT ON DIAGONAL SWITCH CONTROL CIRCUIT LINES ACROSS THE SALES FLOORS, TO PROVIDE AN EVEN LIGHT DISTRIBUTION. CIRCUITING HAS BEEN DESIGNED TO ACCOMMODATE THIS LIGHTING CONTROL SCHEME.

FEATURE AND DISPLAY LIGHTING, WHERE INSTALLED, SUCH AS THE PERIMETER ASYMMETRICAL AND ADJUSTABLE LUMINAIRES, CASH AND CUSTOMER DESK LUMINAIRES, ADJUSTABLE AND NON-ADJUSTABLE SPOTLIGHTS ETC. ARE ALL TIME SWITCH CONTROLLED, AGAIN THROUGH THE BMS PANEL, AND A SERIES OF CONTROL CONTACTORS CONTAINED WITHIN THE LIGHTING CONTROL SECTION OF THE LOCAL DISTRIBUTION PANEL. FEATURE AND DISPLAY LIGHTING, WHICH OPERATES AS NON ON OR OFF IS TIME SWITCH CONTROLLED AND SET TO OPERATE ON STORE OPENING AND CLOSING TIMES AND IS ENABLED BY THE FINAL EXIT KEY SWITCH.

ALSO BMS CONTROLLED, BUT NOT CONTROLLED BY THE FINAL EXIT KEY SWITCH IS THE FEATURE WINDOW DISPLAY LUMINAIRES. THESE LUMINAIRES ARE TIME SWITCH SET AT PREDETERMINED TIMES, I.E. OUT OF NORMAL STORE TRADING HOURS, TO ILLUMINATE WINDOW DISPLAYS. (EXTERNAL PRIMARK ILLUMINATED SIGNS ALSO OPERATE ON THIS METHOD OF CONTROL, REFER TO SECTION ON EXTERNAL SIGNS).

ON OPERATION OF THE FINAL EXIT LIGHTING CONTROL KEY SWITCH, ALL LIGHTING SYSTEMS WITHIN THE STORE SHALL BE DE-ENERGISED, INCLUDING ALL BOH AREAS (I.E. STAFF AREAS, STOCKROOMS, STAIRCASES) WITH THE EXCEPTION OF THE WINDOW DISPLAY LIGHTING AND SOCKETS, EXTERNAL SIGNS AND FAÇADE LIGHTING.

BACK OF HOUSE LIGHTING SYSTEMS, FIRE ESCAPE/STAFF STAIRCASES AND OTHER LIGHTING SYSTEMS I.E. CASH DESK AND UNDER ESCALATOR LIGHTING, WHERE NECESSARY, ARE ALL TO BE CONTROLLED DIRECTLY FROM THE FINAL EXIT KEY SWITCH.

ENSURE CONTACTORS CONTROLLING THE LIGHTING ARE CONNECTED 'FAIL SAFE' TO NORMALLY CLOSED, SO THAT IN THE EVENT OF A CONTROL MALFUNCTION THE CONTACTORS CLOSE AND ENERGIZE ALL LUMINAIRES.

SALES FLOOR LIGHTING OVERRULE CONTROL FACILITY

PROVIDE AN OVERRIDE SWITCH, TO MANUALLY ENERGIZE THE SALES FLOOR AREAS LIGHTING SYSTEMS IN THE EVENT OF A FAULT WITH THE BMS CONTROL SYSTEM. THE FINAL EXIT KEY SWITCH CONTROL OR FOR OPERATIONAL REQUIREMENTS DURING OUT OF NORMAL HOURS ETC. THE ELECTRICAL CONTRACTOR SHALL ALLOW TO SUPPLY, INSTALL AND CONNECT THE NECESSARY CONTROL WIRING BETWEEN THE CONTACTS IN THE MCC PANEL AND THE RELAYS/CONTACTORS IN THE LIGHTING CONTROL SECTION OF THE DISTRIBUTION BOARDS. ENSURE ALL CABLES ARE FULLY IDENTIFIED AND LABELLED AT EACH END FOR EASE OF FINAL CONNECTION. ENSURE THE MANUAL OVERRIDE SWITCH CONTROL CIRCUIT BYPASSES BOTH THE FINAL EXIT KEY SWITCH AND BMS ENABLING CONTROL SIGNAL CIRCUITS.

PROGRAMMING, TRAINING AND ON-SITE ASSISTANCE

ALL LIGHTING WITHIN THE STORE SHALL BE PROGRAMMED IN ORDER TO MEET THE SPECIFIC REQUIREMENTS AS SET FORTH BY PRIMARK WHICH SHALL SPECIFICALLY BE DETERMINED DURING THE LIGHTING CONTROL PROGRAMMING PROCESS. CONTRACTOR TO INCLUDE ALL PROGRAMMING TIME IN ORDER TO ACCOMPLISH THE DESIRED LIGHTING CONTROL SCHEMES. IN ADDITION TO ALL PROGRAMMING WORK, THE CONTRACTOR SHALL INCLUDE IN THE BID TWO FULL DAYS FOR SATISFACTORILY TRAINING OF LIGHTING CONTROLS, EMERGENCY GENERATOR, FIRE ALARM AND OTHER PERTINENT ITEMS FOR STORE OPERATION AND MAINTENANCE WITH THE STORE PERSONNEL AT A TIME ARRANGED WITH THE OWNER BUT SHALL BE PERFORMED PRIOR TO STORE MERCHANDISING. CONTRACTOR SHALL ALSO INCLUDE IN THE BID A SECOND TRAINING SESSION OF UP TO TWO DAYS FOR TRAINING APPROXIMATELY 4 WEEKS AFTER STORE OPENING. CONTRACTOR SHALL ALSO INCLUDE UP TO TWO MEN , TWO DAYS EACH ON SITE ON OR AROUND STORE HANDOVER OR OPENING DAY AS ARRANGED WITH THE OWNER IN ORDER TO ASSIST IN TROUBLESHOOTING, RE-PROGRAMMING, RE-LAMPING, MINOR CIRCUITING CHANGES OR IN OTHER WAYS THAT CAN BE ACCOMPLISHED BY TWO ELECTRICIANS WITH INTIMATE KNOWLEDGE OF THE STORES ELECTRICAL SYSTEMS AND SHALL INCLUDE THE ELECTRICAL FOREMAN FOR THE CONSTRUCTION OF THE STORE ELECTRICAL SYSTEMS. ON SITE ASSISTANCE SHALL NOT INCLUDE MAJOR CHANGES TO THE ELECTRICAL INFRASTRUCTURE AND SHALL NOT INCLUDE THE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES OR THE LIKE.

METHOD OF DELIVERY OF LARGE EQUIPMENT

SOME SPECIFIED EQUIPMENT IS LARGE IN SIZE AND ATTENTION IS TO BE PAID BY THIS CONTRACTOR ON THE METHODOLOGY OF DELIVERY TO THE SITE AND ASSEMBLY OF THE EQUIPMENT. CONTRACTOR SHALL INCLUDE IN THE BID ALL REQUIREMENTS FOR DELIVERY OF THE EQUIPMENT AND ASSEMBLY INCLUDING BUT NOT LIMITED TO RIGGING, REMOVAL OF WINDOWS, WALLS, FLOORS AND CEILINGS. WHERE EQUIPMENT CAN BE DELIVERED TO THE SITE DIS-ASSEMBLED AND ASSEMBLED ON SITE, CONTRACTOR SHALL INCLUDE IN THE BID ASSEMBLY OF EQUIPMENT ON SITE WITH THE MANUFACTURER'S AUTHORIZED ASSEMBLY CONTRACTOR AND/OR SUPERVISOR. PROVIDE ALL REQUIERD RIGGING, TEMPORARY SUPPORTS, CONCRETE PADS, ETC. CONTRACTOR SHALL PAY ALL BUILDING CHARGES RELATED TO THIS EFFORT

DRAWING LIST

NUMBER	DESCRIPTION
E-100	ELECTRICAL TITLE SHEET
E-101	ELECTRICAL SYMBOL LISTS
E-102	ENERGY CODE COMPLIANCE FORMS
E-200	ELECTRICAL MECHANICAL POWER PLAN - LEVEL 01
E-201	ELECTRICAL MECHANICAL POWER PLAN - LEVEL 02
E-202	ELECTRICAL MECHANICAL POWER PLAN - ROOF
E-300	ELECTRICAL POWER PLAN - LEVEL 01
E-301	ELECTRICAL POWER PLAN - LEVEL 02
E-302	ELECTRICAL POWER PART PLAN - CASHWRAP - LEVEL 02
E-303	ELECTRICAL POWER PART PLAN - MAIN ELECTRICAL ROOMS - LEVEL 02
E-400	ELECTRICAL LIGHTING PLAN - LEVEL 01
E-401	ELECTRICAL LIGHTING PLAN - LEVEL 02
E-500	ELECTRICAL SINGLE-LINE DIAGRAM
E-600	ELECTRICAL PANEL SCHEDULES SHEET NO. 1
E-601	ELECTRICAL PANEL SCHEDULES SHEET NO. 2
E-700	ELECTRICAL DETAILS

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
330 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL TITLE SHEET

Scale: AS NOTED

E-100

SYMBOL LIST

	SYMBOL	DESCRIPTION
POWER, BRANCH CIRCUITING		LIGHT FIXTURE
	12	INDICATES LIGHT FIXTURE TYPE(SEE LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL DRAWINGS)
		INDICATES SWITCH CONTROL
		INDICATES CIRCUIT DESIGNATION
	L4A–2,11,13	HOME RUN (SINGLE AND MULTI) TO ASSOCIATED PANELBOARD
		INDICATES CIRCUIT DESIGNATION
		INDICATES PANELBOARD DESIGNATION
		INDICATES PHASE
		PANELBOARD (SURFACE MOUNTED), TOP OF TRIM, 6'-2" AFF
		PANELBOARD (FLUSH MOUNTED), TOP OF TRIM, 6'-2" AFF
		LIGHT FIXTURES WITH SHADING REPRESENT EMERGENCY 'EM' CIRCUITING
	F kVA	TRANSFORMER (KVA RATING AS NOTED)
	S 3,D,2P	WALL TOGGLE SWITCH, 44" AFF, UON ON ARCHITECTURAL DRAWINGS
		INDICATES CONNECTED LIGHT FIXTURES
		INDICATES 2 POLE SWITCH
		INDICATES DIMMER SWITCH
		INDICATES 3-WAY SWITCH
	GFI	DUPLEX CONVENIENCE RECEPTACLE, 18" AFF, UON ON ARCHITECTURAL DRAWINGS
		INDICATES GROUND FAULT INTERRUPTER
	D	20A DEDICATED RECEPTACLE
		DOUBLE DUPLEX (QUAD) RECEPTACLE, 18" AFF, UON ON ARCHITECTURAL DRAWINGS
	IG	INDICATES ISOLATED GROUND RECEPTACLE
		SHADING INDICATES SEPARATE CIRCUIT
		208V OR 220V RECEPTACLE
		MODULAR FURNITURE RECEPTACLE, 18" AFF, UON ON ARCHITECTURAL DRAWINGS
		SIMPLEX RECEPTACLE, 18" AFF, UON ON ARCHITECTURAL DRAWINGS
		SIMPLEX RECEPTACLE (SPECIAL USE), 18" AFF, UON ON ARCHITECTURAL DRAWINGS
POWER EQUIPMENT AND DEVICES	TELEPHONE	STANDARD FLUSH WALL MOUNTED TELECOMMUNICATIONS OUTLET. PROVIDE ONE (1) STANDARD DOUBLE GANG BACK BOX WITH PLASTER RING AND (1) 1" EMPTY CONDUIT WITH PULLSTRING STUBBED UP AND BUSHED TO 2" ABOVE ACCESSIBLE CEILING. WHERE NO HUNG CEILING EXISTS, PROVIDE (1) 1" EMPTY CONDUIT WITH PULLSTRING TO A HEIGHT WITHIN 2' OF SLAB. 18" AFF, UON ON ARCHITECTURAL DRAWINGS
	LAN. RECEPTACLE	
	J	JUNCTION BOX
		FLOOR-MOUNTED DOUBLE DUPLEX RECEPTACLE
		PENDANT MOUNTED EMERGENCY LIGHTING FIXTURE
		WALL MOUNTED EMERGENCY LIGHTING FIXTURE
		2'X2' RECESSED TROFFER EMERGENCY LIGHTING FIXTURE
		1'X4' LED LINEAR EMERGENCY LIGHTING FIXTURE
		CONDUIT CONCEALED IN HUNG CEILING OR CONCEALED WITHIN WALLS
		CONDUIT RUN IN SLAB OR RUN IN HUNG CEILING BELOW
		EXISTING WIRING AND/OR EQUIPMENT
		EXISTING WIRING AND/OR EQUIPMENT TO BE DEMOLISHED
		CONDUIT TURNED UP
		CONDUIT TURNED DOWN
		WIRE AND/OR CONDUIT RUN CONTINUED ON REFERENCED DRAWING OR DETAIL
		CONDUIT STUBBED AND BUSHED INTO ACCESSIBLE CEILING

SYMBOL LIST (CONT'D)

	SYMBOL	DESCRIPTION
REFERENCE	E	WHEN LOCATED ADJACENT TO ANY EQUIPMENT OR FIXTURE, INDICATES EXISTING TO BE REMAIN
	R	WHEN LOCATED ADJACENT TO ANY EQUIPMENT OR FIXTURE, INDICATES EXISTING TO BE RELOCATED
	X	WHEN LOCATED ADJACENT TO ANY EQUIPMENT OR FIXTURE, INDICATES EXISTING TO BE DEMOLISHED
	1	DRAWING REFERENCE NOTE. NOTE NUMBER INDICATED BY NUMERAL IN DIAMOND.
	1	REVISION NOTATION
		CLOUD PM-1 PUSH-TO-TALK DESK MICROPHONE OR EQUAL
	EC	EQUIPMENT RACK
	P	BOSE DS 16F PENDANT MOUNT SPEAKER (WHITE) OR EQUAL
	S	BOSE DS 16F RECESSED MOUNT SPEAKER (WHITE) OR EQUAL
		JBL CSS-H15 PAGING HORN (GREY) OR EQUAL
		MATCH LINE/DETAIL REFERENCE
	3 E-401	DETAIL REFERENCE TAG
		INDICATES DETAIL NUMBER
		INDICATES DRAWING NUMBER
	1 E-401	ELEVATION REFERENCE TAG
		INDICATES DETAIL NUMBER
		INDICATES DRAWING NUMBER
		DISTRIBUTION AND PANELBOARD DESIGNATIONS
		SYSTEM/SOURCE
		TYPE
		FLOOR
		SEQUENCE LETTER
		LETTERS IN SEQUENCE - A, B, C, ETC.
		B - BASEMENT 1 - FIRST FLOOR 2 - SECOND FLOOR
		MSB - MAIN SWITCHBOARD MDP - MAIN DISTRIBUTION PANEL L - LIGHTING AND APPLIANCE PANELBOARD P - POWER PANELBOARD D - DISTRIBUTION BOARD T - TELECOM PANELBOARD
		E - EMERGENCY
		TRANSFORMER DESIGNATIONS
		TRANSFORMER
		FLOOR
		LETTERS IN SEQUENCE - A, B, C, ETC.

* ON SITE MEDIA IS BASE OF DESIGN
ANNA DAVIS
ANNA@ONSITEMEDIA.COM
435-214-4639

SPECIFICATIONS SECTION LIST:

NUMBER	DESCRIPTION
16010	GENERAL PROVISIONS FOR ELECTRICAL WORK
16055	OVER CURRENT PROTECTIVE DEVICE COORDINATION
16060	GROUNDING AND BONDING
16120	CONDUCTORS AND CABLES
16130	RACEWAYS, BOXES, AND FITTINGS
16140	WIRING DEVICES
16145	LIGHTING CONTROL DEVICES
16146	NETWORK LIGHTING CONTROLS
16195	ELECTRICAL IDENTIFICATION
16215	ELECTRICAL POWER MONITORING
16265	CENTRAL BATTERY INVERTER
16410	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
16415	TRANSFER SWITCHES
16441	SWITCHBOARDS
16442	PANELBOARDS
16461	DRY-TYPE TRANSFORMERS
16491	FUSES
16611	40KVA UPS SYSTEM
16721	LIFE SAFETY FIRE ALARM
16740	TELEPHONE/DATA/TV EMPTY RACEWAY SYSTEM

ABBREVIATIONS:

ABBREV.	DESCRIPTION
A	AMPERES
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
DGP	DATA GATHERING PANEL
DWG	DRAWING
EC	EMPTY CONDUIT
EM	EMERGENCY
E	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
G	GROUND
GFI	GROUND FAULT INTERRUPTER
KVA	KILOVOLT-AMPERE
KW	KILOWATT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MER	MECHANICAL EQUIPMENT ROOM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø	PHASE
PB	PULLBOX
PNL	PANEL
TEL	TELECOMMUNICATIONS
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WATER PROOF

BRANCH CIRCUIT VOLTAGE DROP

CONDUCTOR AWG	#12	#10	#6
MAXIMUM CONDUCTOR LENGTH AT 120V	95	160	245
MAXIMUM CONDUCTOR LENGTH AT 277V	225	375	565
MAXIMUM CONDUCTOR LENGTH AT 208V, 1 PH.	170	280	425
MAXIMUM CONDUCTOR LENGTH AT 480V, 3 PH.	390	650	985
GROUND CONDUCTOR AWG.	#12	#12	#10

NOTES:
1. INCREASE BRANCH CIRCUIT CONDUCTOR AS INDICATED.
2. BASED ON 20 AMP CIRCUIT LOADED TO 16 AMP USING SINGLE PHASE, 2 WIRE CIRCUITS.
3. SCHEDULE REPRESENTS MINIMUM CONDUCTOR SIZE BASED ON LENGTH OF BRANCH CIRCUIT CONDUCTOR FROM PANEL TO PHYSICAL CENTER OF LOAD TO OVERCOME VOLTAGE DROP. 3% VOLTAGE DROP ASSUMED.
4. TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET. EXTEND #12 CONDUCTOR TO OUTLET.

LANDLORD NOTES:

1. PLANS REVIEWED AND APPROVED BY LANDLORD'S TENANT COORDINATOR MUST BE PRESENT ON JOB SITE AND BE ACCOMPANIED BY PLANS APPROVED FOR BUILDING PERMIT. ANY PROPOSED DEVIATION FROM THE LANDLORD APPROVED PLANS MUST BE NUMBERED AND CLOUDED ON THE PLANS, AND THEN RESUBMITTED BY THE TENANT TO THE LANDLORD FOR RE-APPROVAL PRIOR TO ANY CONSTRUCTION CHANGES TAKING PLACE IN THE FIELD.
2. TENANT'S GC IS REQUIRED TO CHECK IN WITH THE LANDLORD'S ON SITE PROPERTY MANAGER PRIOR TO THE START OF TENANT CONSTRUCTION. CONTACT MALL MANAGEMENT OFFICE.
3. CONTACT PROPERTY MANAGEMENT FOR CONSTRUCTION BARRICADE REQUIREMENTS, INCLUDING BARRICADE GRAPHICS.
4. TENANT'S GC IS RESPONSIBLE TO COMPLY WITH ALL MALL RULES AND REGULATIONS AND AS INSTRUCTED ON SITE BY MALL MANAGEMENT.
5. ANY DAMAGE TO LANDLORD'S PROPERTY DURING TENANT DEMOLITION OR CONSTRUCTION (MALL FLOORING, BULKHEAD, NEUTRAL PIERS, ETC.) WILL BE REPAIRED PER MALL SPECIFICATIONS, AT TENANT'S EXPENSE.
6. ANY LANDLORD EQUIPMENT, COMPONENT, AND/OR SERVICE FEEDING OTHER TENANT(S) THAT IS EXISTIN GIN THE SPACE MUST REMAIN VISIBLE AND ACCESSIBLE TO THE LANDLORD. TENANT SHALL INSTALL ACCESS PANELS AS REQUIRED TO MAINTAIN ACCESS. ACCESS PANELS SHALL BE LABELED TO PROPERLY IDENTIFY SYSTEM, COORDINATE WITH MALL OPERATIONS.
7. ALL LANDLORD COMMENTS FROM PREVIOUS REVIEW(S) ARE TO BE INCORPORATED INTO THE FINAL SET OF APPROVED DRAWINGS ARE TO BE ADHERED TO IN THE FIELD.
8. ALL LANDLORD COMMENTS ON THIS SET OF DRAWINGS SHALL APPLY TO THE ENTIRE DOCUMENT SET, EVEN IF NOT REPEATED ON EVERY SHEET IN THE DRAWING SET.
9. THE RE-USE OF ANY EXISTING CONSTRUCTION, FINISHES, EQUIPMENT, OR ELECTRICAL, PLUMBING OR HVAC SYSTEMS, CURRENTLY IN THE SPACE IS CONDITIONAL UPON IT BEING APPROPRIATE FOR RE-USE. ANY EXISTING CONDITION OR EQUIPMENT TO BE RE-USED MUST BE RESTORED TO LIKE NEW CONDITIONS. THE LANDLORD MAKES NO WARRANTY ON THE RE-USE OF ANY EXISTING CONDITION IN THE SPACE.
10. IF AT ANY POINT A FAILURE, UPGRADES, AND / OR IMPROVEMENTS TO EXISTING SYSTEMS OCCUR, IT IS THE SOLE RESPONSIBILITY OF THE TENANT TO REPAIR OR REPLACE, AT TENANT'S EXPENSE.
11. LANDLORD AND TENANT RESPONSIBILITIES ARE AS DEFINED IN LEASE AGREEMENT.
12. LANDLORD STRONGLY PREFERS USE OF ENERGY STAR PRODUCTS AND / OR EQUIPMENT WHENEVER POSSIBLE DURING TENANT BUILD OUT, WHICH CAN REDUCE ENERGY CONSUMPTION.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
630 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

Project Name
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL SYMBOL LISTS

Scale
AS NOTED

E-101

COMcheck Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Primark Woodfield
Project Type: New Construction

Construction Site: 5 Wood field Mall Schaumburg, IL 60173
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required: 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Goods Handling 101 (Common Space Types:Corridor/Transition <8 ft wide)	1513	0.66	999
2-VMEQ Room 102 (Common Space Types:Office - Enclosed)	328	0.93	305
3-Vestibule 200 (Common Space Types:Lobby - General)	267	1.00	267
4-Retail Area 201A (Retail:Sales Area)	33663	1.22	41089
5-Cash Wrap Area 201B (Retail:Sales Area)	1916	1.22	2336
6-Fitting Rooms 201C (Retail:Dressing/Fitting Room)	2173	0.50	1086
7-Closed Display 202 (Retail:Sales Area)	114	1.22	139
8-IT Closet 203 (Common Space Types:Electrical/Mechanical)	88	0.43	38
9-Electrical Closet 204 (Common Space Types:Electrical/Mechanical)	71	0.43	31
10-Stock Area 205 (Common Space Types:Storage)	3088	0.63	1945
11-Baler Area 206 (Common Space Types:Workshop)	238	1.14	271
12-VMEQ Room 207 (Common Space Types:Office - Enclosed)	283	0.93	263
13-Cleaner's COmpund 208 (Common Space Types:Storage)	208	0.63	131
14-BOH Corridor 209 (Common Space Types:Corridor/Transition >=8 ft wide)	264	0.66	174
15-Elec Switch RM 221 (Common Space Types:Electrical/Mechanical)	368	0.43	157
16-Public (F) Restroom 222 (Common Space Types:Restrooms)	212	0.85	180
17-Public (M) Restroom 223 (Common Space Types:Restrooms)	212	0.85	180
18-Egress Corridor 224 (Common Space Types:Corridor/Transition >=8 ft wide)	293	0.66	193
19-Admin Area 225 (Common Space Types:Office - Enclosed)	114	0.93	106
20-BOH Hallway 02 230 (Common Space Types:Corridor/Transition >=8 ft wide)	245	0.66	162
21-Sec Room 231 (Common Space Types:Electrical/Mechanical)	133	0.43	57
22-Comms Room 232 (Common Space Types:Electrical/Mechanical)	139	0.43	60
23-CCTV Room 233 (Common Space Types:Computer Room)	141	1.20	169
24-BOH Hallway 03 234 (Common Space Types:Corridor/Transition >=8 ft wide)	363	0.66	239
25-Staff (M) Restroom 235 (Common Space Types:Restrooms)	198	0.85	168
26-Staff (M) Restroom 236 (Common Space Types:Restrooms)	189	0.85	161
27-First Aid Room 238 (Common Space Types:Laboratory For Medical/Industrial/Research)	154	1.45	223
28-Meeting Room 1 239 (Common Space Types:Conference/Meeting/Multipurpose)	165	1.07	176
29-Meeting Room 2 240 (Common Space Types:Conference/Meeting/Multipurpose)	186	1.07	199
30-P&C Room 241 (Common Space Types:Office - Enclose)	275	0.93	256
31-Lockable Storage 242 (Common Space Types:Locker Room)	119	0.46	53
32-Cash Lobby 243 (Common Space Types:Lobby - General)	60	1.00	60
33-Cash Office 244 (Common Space Types:Office - Enclose)	223	0.93	207

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A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
34-Lockers & Coat Hanging 245 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	162	0.46	75
35-Recharge Area 246 (Common Space Types:Lounge/Breakroom)	96	0.62	60
36-Pantry 247 (Common Space Types:Food Preparation)	719	1.06	762
37-Hot Desking 248 (Common Space Types:Lounge/Breakroom)	54	0.62	33
38-Manager's Area 249 (Common Space Types:Office - Enclosed)	254	0.93	236
39-My Workday Station 250 (Common Space Types:Office - Open Plan)	159	0.61	98
		Total Allowed Watts =	53270

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Goods Handling 101 (Common Space Types:Corridor/Transition <8 ft wide)				
MD: Other:	1	10	25	250
2-VMEQ Room 102 (Common Space Types:Office - Enclosed)				
MD: Other:	1	3	25	75
3-Vestibule 200 (Common Space Types:Lobby - General)				
DTD: Other:	1	8	30	240
4-Retail Area 201A (Retail:Sales Area)				
PL4: Other:	1	296	20	5920
PL6: Other:	1	183	20	3660
PL13: Other:	1	332	20	6640
PL17: Other:	1	299	20	5980
D3: Other:	1	3	20	60
5-Cash Wrap Area 201B (Retail:Sales Area)				
PL3: Other:	1	61	20	1220
PL4: Other:	1	2	20	40
PL15: Other:	1	4	20	80
6-Fitting Rooms 201C (Retail:Dressing/Fitting Room)				
PL19: Other:	1	43	20	860
PL17: Other:	1	8	20	160
PL20: Other:	1	33	20	660
7-Closed Display 202 (Retail:Sales Area)				
PL13: Other:	1	15	20	300
8-IT Closet 203 (Common Space Types:Electrical/Mechanical)				
MD: Other:	1	2	25	50
9-Electrical Closet 204 (Common Space Types:Electrical/Mechanical)				
MD: Other:	1	2	25	50
10-Stock Area 205 (Common Space Types:Storage)				
MD: Other:	1	41	25	1025
11-Baler Area 206 (Common Space Types:Workshop)				
MD: Other:	1	2	25	50
12-VMEQ Room 207 (Common Space Types:Office - Enclosed)				
MD: Other:	1	3	25	75
13-Cleaner's COmpund 208 (Common Space Types:Storage)				
A: Other:	1	5	30	150
14-BOH Corridor 209 (Common Space Types:Corridor/Transition >=8 ft wide)				
A: Other:	1	8	30	240

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A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
15-Elec Switch RM 221 (Common Space Types:Electrical/Mechanical)				
MD: Other:	1	6	25	150
16-Public (F) Restroom 222 (Common Space Types:Restrooms)				
A: Other:	1	6	30	180
17-Public (M) Restroom 223 (Common Space Types:Restrooms)				
A: Other:	1	6	30	180
18-Egress Corridor 224 (Common Space Types:Corridor/Transition >=8 ft wide)				
A: Other:	1	6	30	180
19-Admin Area 225 (Common Space Types:Office - Enclosed)				
A: Other:	1	2	30	60
20-BOH Hallway 02 230 (Common Space Types:Corridor/Transition >=8 ft wide)				
A: Other:	1	7	30	210
21-Sec Room 231 (Common Space Types:Electrical/Mechanical)				
A: Other:	1	3	30	90
22-Comms Room 232 (Common Space Types:Electrical/Mechanical)				
A: Other:	1	6	30	180
23-CCTV Room 233 (Common Space Types:Computer Room)				
A: Other:	1	6	30	180
24-BOH Hallway 03 234 (Common Space Types:Corridor/Transition >=8 ft wide)				
A: Other:	1	11	30	330
G: Other:	1	9	20	180
25-Staff (M) Restroom 235 (Common Space Types:Restrooms)				
A: Other:	1	4	30	120
26-Staff (M) Restroom 236 (Common Space Types:Restrooms)				
A: Other:	1	6	30	180
27-First Aid Room 238 (Common Space Types:Laboratory For Medical/Industrial/Research)				
A: Other:	1	4	30	120
28-Meeting Room 1 239 (Common Space Types:Conference/Meeting/Multipurpose)				
A: Other:	1	6	30	180
29-Meeting Room 2 240 (Common Space Types:Conference/Meeting/Multipurpose)				
A: Other:	1	6	30	180
30-P&C Room 241 (Common Space Types:Office - Enclosed)				
A: Other:	1	7	30	210
31-Lockable Storage 242 (Common Space Types:Locker Room)				
A: Other:	1	4	30	120
32-Cash Lobby 243 (Common Space Types:Lobby - General)				
A: Other:	1	2	30	60
33-Cash Office 244 (Common Space Types:Office - Enclosed)				
A: Other:	1	8	30	240
34-Lockers & Coat Hanging 245 (Common Space Types:Storage >=50 - <=1000 sq.ft.)				
A: Other:	1	4	30	120
35-Recharge Area 246 (Common Space Types:Lounge/Breakroom)				
A: Other:	1	4	30	120
36-Pantry 247 (Common Space Types:Food Preparation)				
A: Other:	1	16	30	480
37-Hot Desking 248 (Common Space Types:Lounge/Breakroom)				
A: Other:	1	2	30	60
38-Manager's Area 249 (Common Space Types:Office - Enclosed)				
A: Other:	1	6	30	180
39-My Workday Station 210 (Common Space Types:Office - Open Plan)				
A: Other:	1	4	30	120

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Total Proposed Watts = 31199

Interior Lighting PASSES: Design 41% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with his permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COmcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: Signature: Date:

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COMcheck Software Version 4.1.5.5

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0.0% were addressed directly in the COMcheck software.
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (R64)†	Plans, specifications, and/or calculations provide all information with sufficient clarity to be determined to be interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of lamps and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comment/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22]†	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the lighting power by 50% in a reasonably uniform illumination pattern >= 51 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.3.1 [EL18]†	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, employee lounges, private offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL19]†	Occupancy sensors control function in warehouses: 1 warehouses; the occupant sensor control system shall be controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors shall be capable of switching independently and do not keep lighting beyond the aisle or area being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20]†	Occupant sensor control function in open-plan office areas: Occupant sensor controls in open office spaces shall be: 1) configured so that configured wall/set general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn lighting off in each control zone within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy is detected in that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1, C405.2.2.2 [EL21]†	Each area not served by occupancy sensors (per I405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23]†	Daylight zones provided with individual controls that control the lights independent of general area lighting per C405.2.3.1 Daylight responsive controls for applicable spaces. C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL26]†	Separate lighting control devices for specific uses installed per approved lighting plans	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL27]†	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.5 [EL6]†	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI137]†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.3 [FI189]†	Interior installed lamp and fixture lighting power is consistent with what is listed on the building plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5.1 [FI196]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI137]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Project Title: Primark Woodfield
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Project Title: Primark Woodfield
Data Filename: C:\Users\cherr\Downloads\Woodfield 1\mark.cck
Report date: 09/22/22
Page 9 of 9

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street Tel 312.456.0123
Suite 300 Fax 312.456.0124
Chicago, IL 60602
United States

FISKAA
FISKAA ENGINEERING
555 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

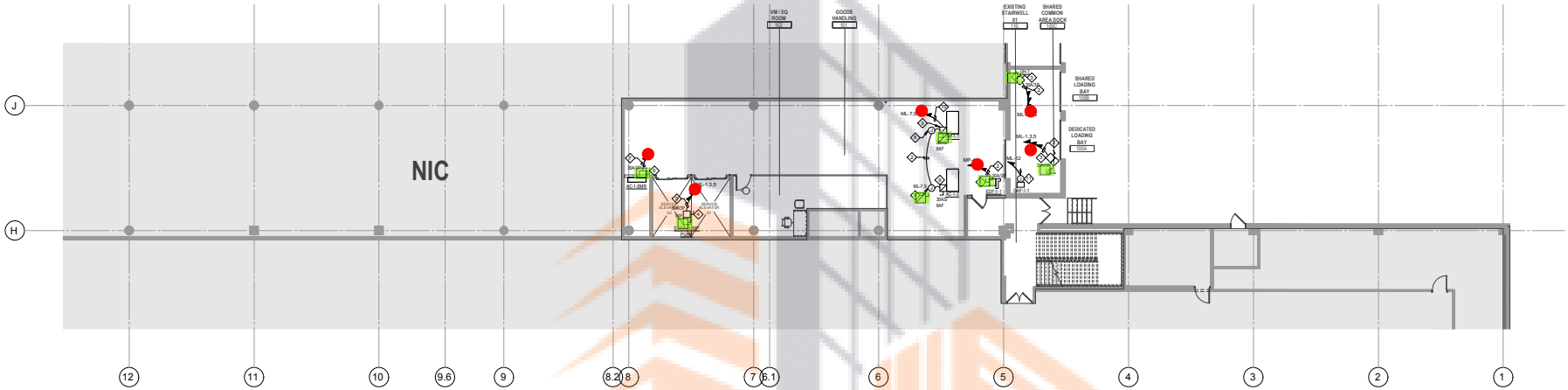
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ENERGY CODE COMPLIANCE FORMS

Scale: AS NOTED

E-102



ELECTRICAL MECHANICAL POWER PLAN - LEVEL 01

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND FOR REFERENCE ONLY, INDICATING NEW CIRCUITING AS FOLLOWS:
   - 'MA-' INDICATES NEW CIRCUITING TO NEW PANEL 'MECH-A'
   - 'MB-' INDICATES NEW CIRCUITING TO NEW PANEL 'MECH-B'
   - 'MP-' INDICATES NEW CIRCUITING TO NEW PANEL 'MDP'
   - 'MH-' INDICATES NEW CIRCUITING TO NEW PANEL 'MHV-A'
   - 'ML-' INDICATES NEW CIRCUITING TO NEW PANEL 'MLV-A'
   - 'HV-' INDICATES NEW CIRCUITING TO NEW PANEL 'HV'
   - 'PLA-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-A'
   - 'PLB-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-B'
   - 'PLC-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-C'
   - 'PLD-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-D'
   - 'ES-' INDICATES NEW CIRCUITING TO NEW PANEL 'ELEV'
2. COORDINATE ALL CORE DRILLING AND PATCHING OF FLOOR WITH BUILDING OWNER, GENERAL CONTRACTOR, AND STRUCTURAL ENGINEER. USE MINIMUM OF ¾" RIGID STEEL CONDUIT FOR ALL SLAB PENETRATING RUNS.
3. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL SEPARATE CIRCUITS & DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
4. ¾" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, UON.
5. FOR PANEL SCHEDULES, SEE DWGS. E-600, E-601 AND E-602, E-603 AND E-604.
6. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 AND E-101.
7. GC SHALL PROVIDE ACCESS PANELS WHERE NECESSARY TO ALLOW FOR ACCESS TO JUNCTION BOXES OR ELECTRICAL EQUIPMENT THAT IS LOCATED ABOVE HARD CEILINGS. COORDINATE ACCESS PANEL WORK WITH ARCHITECT. ACCESS PANELS @ HARD CEILINGS SHALL BE GFRG-TYPE, AS SPECIFIED BY ARCHITECT.
8. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL OR LOCAL ELECTRICAL CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
9. ALL ELECTRICAL WIRING SYSTEMS SHALL BE IN CONDUIT. THE USE OF "BX" OR "ROMEX" IS NOT PERMITTED. SPEAKER OR LOW VOLTAGE WIRING MUST BE PLENUM RATED OR IN CONDUIT.
10. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
11. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
12. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
13. ALL FLOOR/SURFACE MOUNTED BOXES AND IN-FLOOR/SLAB CONDUIT ROUTING TO BE SUBMITTED FOR STRUCTURAL REVIEW.
14. ALL RACEWAYS, BOTH RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING, SHALL BE THE BEST QUALITY STEEL OF STANDARD DIMENSIONS, HOT GALVANIZED AND SMOOTH BOTH INSIDE AND OUTSIDE. CONDUIT RUNS THAT ARE EXPOSED OR LOCATED IN EXTERIOR WALLS SHALL BE RIGID STEEL. EMT MAY BE USED IN INTERIOR PARTITIONS AND CEILINGS. ALL CONDUIT MUST BE SUSPENDED INDEPENDENTLY AND BE SELF-SUPPORTING AND MUST NOT REST ON OTHER LINES, FIXTURES OR SPRINKLER LINES.
15. THE CONTRACTOR SHALL INCLUDE ALL REQUIRED NEW CONDUITS & WIRING AS PART OF THE BASE BID - NO ALLOWANCES/EXTRAS SHALL BE APPROVED.
16. ALL ELECTRICAL WORK TO BE COORDINATED WITH ARCHITECTURAL AND MILLWORK DRAWINGS, PRIOR TO ROUGH-IN.
17. COORDINATE DEMARCATION POINT WITH LANDLORD.
18. GENERAL CONTRACTOR TO COORDINATE MILLWORK WHIP LOCATION AND CONNECTION WITHIN THE MILLWORK CABINETS WITH MILLWORK CONTRACTOR.
19. PROVIDE 'TWIST-LOCK' L5-15R RECEPTACLE FOR ALL UPS RECEPTACLES. COORDINATE RECEPTACLE COLOR WITH ARCHITECT.
20. PROVIDE ARC-FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT. COORDINATE ARC-FLASH INSPECTION REQUIREMENTS WITH PRIMARK.
21. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
22. IN EACH INSTANCE WHERE TWO OR MORE DEVICE BOXES ARE GENERALLY LOCATED IN THE SAME VICINITY AND AT DIFFERENT ELEVATIONS, MOUNT THE BOXES VERTICALLY ON A COMMON CENTER LINE.
23. ALL CIRCUITS TO COMPUTERS AND ANY OTHER LOADS OF NON-LINEAR NATURE SHALL HAVE A SEPARATE GROUND AND SEPARATE NEUTRAL WIRES. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. DERATE ALL CONDUCTORS AS REQUIRED BY NEC.
24. FOR ALL CORD-AND-PLUG EQUIPMENT, COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. EQUIPMENT AND ASSOCIATED RECEPTACLE SHALL NOT BE CONCEALED ABOVE CEILING PER NEC.
25. ALL DUPLEX RECEPTACLES WITHIN 6'-0" OF A SINK'S EDGE SHALL BE GFCI TYPE.
26. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
27. OPEN SALES AREA COLUMN CONVENIENCE AND SIGNAGE RECEPTACLES SHALL BE MOUNTED TO COLUMN ENCLOSURE, NOT ON FIXTURE FRAMES. COORDINATE EXACT LOCATION WITH ARCHITECT.

REFERENCE NOTES:

1. PROVIDE A 600V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
2. PROVIDE (3)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C.
3. PROVIDE A 240V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
4. PROVIDE A WEATHERPROOF 600V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
5. PROVIDE (3)#12 XHHW CU + (1)#12 XHHW CU GND IN A 1 3/4"C.
6. PROVIDE A 240V, 2-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
7. PROVIDE (2)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C. AND CONNECT UNIT FROM THE SAME BRANCH CIRCUIT DEDICATED TO ACCU-1-EMR. REFER TO MECHANICAL VENDOR SPECIFICATIONS TO PROVIDE ALL ADDITIONAL APPURTENANCES AND FEEDERS REQUIRED FOR A COMPLETE INSTALLATION AND INTERCONNECTION BETWEEN ACCU-1-EMR AND AC-1-EMR UNITS.
8. SINGLE FEEDER, (2) #12 THHN CU + (1) #12 THHN CU GND RUNS FROM CIRCUIT ML-7.9 THROUGH JUNCTION BOXES AT AC-1-1 AND AC-1-2 WHERE FEEDER IS TAPPED FOR SERVICE TO THOSE EVAPORATOR UNITS.
9. PROVIDE 2P-30A DISCONNECT SWITCH FUSED AT 6A.
10. PROVIDE (2)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C.
11. PROVIDE JUNCTION BOX AND MOTOR RATED TOGGLE SWITCH FOR CONNECTION TO FAN UNITS IN THIS AREA. COORDINATE EXACT LOCATION AND INSTALLATION WITH MECHANICAL CONTRACTOR.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
555 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

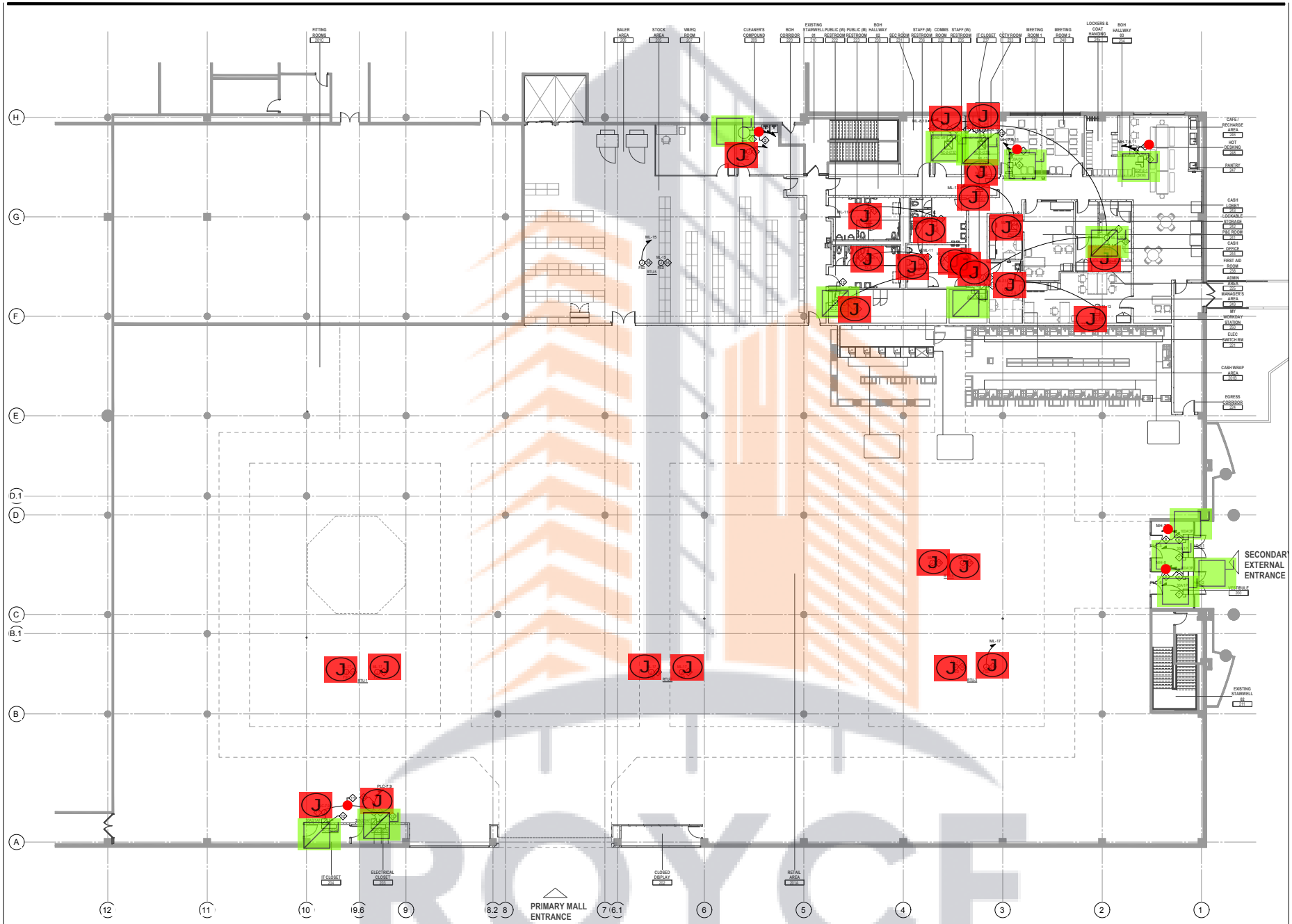
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL MECHANICAL POWER PLAN - LEVEL 01

Scale: AS NOTED

E-200



ELECTRICAL MECHANICAL POWER PLAN - LEVEL 02

SCALE: 1/8" = 1'-0"

REFERENCE NOTES:

1. PROVIDE A 600V, 3-POLE, 100A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
2. PROVIDE (3)#4 THHN CU + (1)#8 THHN CU GND IN A 1 1/4"C.
3. PROVIDE A 600V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
4. PROVIDE (3)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C.
5. PROVIDE JUNCTION BOX AND MOTOR RATED TOGGLE SWITCH FOR CONNECTION TO PUMP IN THIS AREA. COORDINATE EXACT LOCATION AND INSTALLATION WITH PLUMBING CONTRACTOR.
6. PROVIDE A 600V, 3-POLE, 60A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
7. PROVIDE A 240V, 1-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
8. PROVIDE (3)#6 THHN CU + (1)#10 THHN CU GND IN A 1"C.
9. PROVIDE A 600V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
10. PROVIDE (3)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C.
11. SINGLE FEEDER, (2) #12 THHN CU + (1) #12 THHN CU GND RUNS FROM CIRCUIT LPC-7.9 THROUGH JUNCTION BOXES AT AC-2-203 AND AC-2-204 WHERE FEEDER IS TAPPED FOR SERVICE TO THOSE EVAPORATOR UNITS.
12. PROVIDE 2P-30A DISCONNECT SWITCH FUSED AT 1A.
13. PROVIDE (2)#12 THHN CU + (1)#12 THHN CU GND IN A 3/4"C.
14. SINGLE FEEDER, (2) #12 THHN CU + (1) #12 THHN CU GND RUNS FROM CIRCUIT ML-8-10 THROUGH JUNCTION BOXES AT AC-2-221-1, 2-221-2, 2-332, 2-233 AND 2-244 WHERE FEEDER IS TAPPED FOR SERVICE TO THOSE EVAPORATOR UNITS.
15. PROVIDE JUNCTION BOX AND MOTOR RATED TOGGLE SWITCH FOR CONNECTION TO FAN UNITS IN THIS AREA. COORDINATE EXACT LOCATION AND INSTALLATION WITH MECHANICAL CONTRACTOR.
16. PROVIDE JUNCTION BOX FOR CONNECTION TO FSD FOR RTU UNITS IN THIS AREA. COORDINATE EXACT LOCATION AND INSTALLATION WITH MECHANICAL CONTRACTOR.

Legend

Description	Quantity	Unit
Fused Disconnect Switch 30A AS/1AF	7	Count
Junction Box	27	Count
Non-Fused Disconnect Switch 30A/1P	2	Count
Non-Fused Disconnect Switch 30A/3P	2	Count
Non-Fused Disconnect Switch 100A/3P	3	Count

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
880 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

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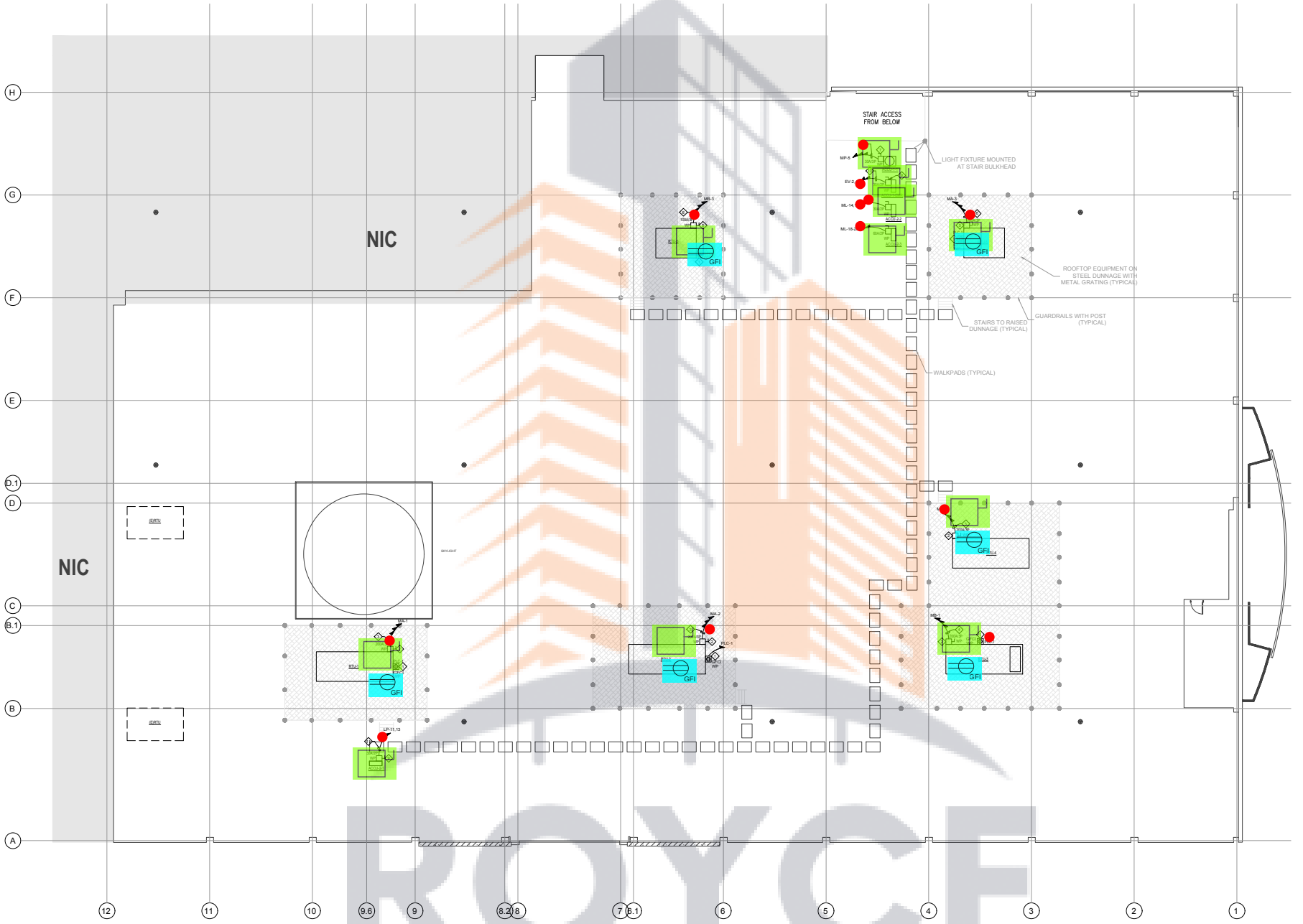
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL MECHANICAL POWER PLAN - LEVEL 02

Scale: AS NOTED

E-201



ELECTRICAL MECHANICAL POWER PLAN - ROOF

SCALE: 1/8" = 1'-0"

REFERENCE NOTES:

- PROVIDE WEATHERPROOF GFCI DUPLEX RECEPTACLE, PER NEC 210.63 IN THIS AREA FOR SERVICE EQUIPMENT. RECEPTACLE SHALL BE LOCATED NO FURTHER THAN 25 FEET AND ON THE SAME LEVEL OF EQUIPMENT.
- PROVIDE A WEATHERPROOF 600V, 3-POLE, 200A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
- PROVIDE (3)#2/0 XHHW CU + (1)#6 XHHW CU GND IN A 1 1/2"C.
- PROVIDE (3)#1/0 XHHW CU + (1)#6 XHHW CU GND IN A 1 1/2"C.
- PROVIDE A WEATHERPROOF 600V, 3-POLE, 100A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
- PROVIDE (3)#2 XHHW CU + (1)#6 XHHW CU GND IN A 1 1/4"C.
- PROVIDE A WEATHERPROOF 600V, 3-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
- PROVIDE (3)#12 XTHHN CU + (1)#12 THHN CU GND IN A 3/4"C.
- PROVIDE A WEATHERPROOF 240V, 2-POLE, 30A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
- PROVIDE (2)#12 XTHHN CU + (1)#12 THHN CU GND IN A 3/4"C.
- PROVIDE (2)#10 XTHHN CU + (1)#10 THHN CU GND IN A 3/4"C.

Legend

Description	Quantity	Unit
GFI-WP	6	Count
Non-Fused Disconnect Switch 30A/2P	4	Count
Non-Fused Disconnect Switch 30A/3P	1	Count
Non-Fused Disconnect Switch 100A/3P	2	Count
Non-Fused Disconnect Switch 200A/3P	4	Count

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
580 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

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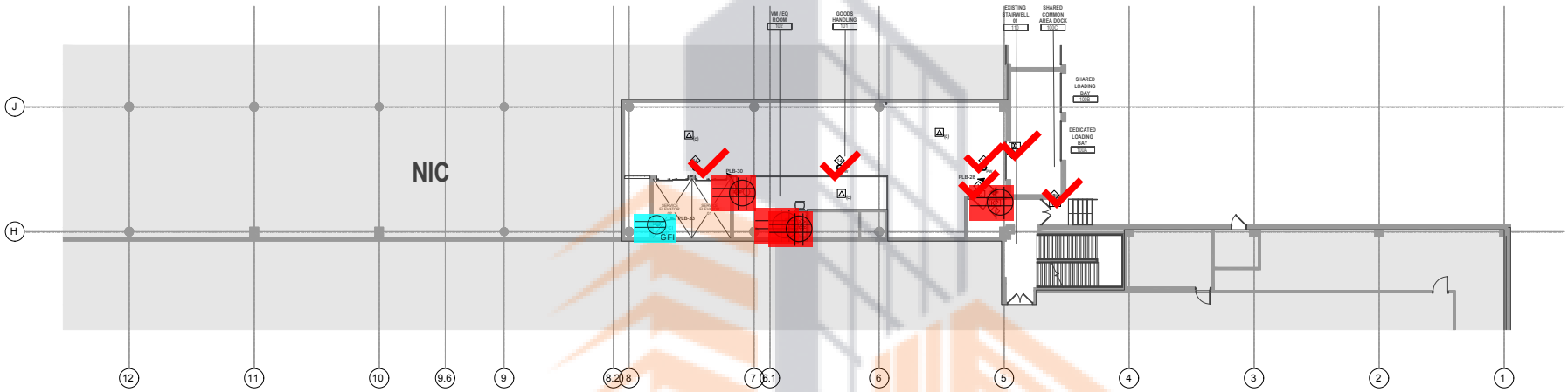
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL MECHANICAL POWER PLAN - ROOF

Scale: AS NOTED

E-202



ELECTRICAL POWER PLAN - LEVEL 01

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND FOR REFERENCE ONLY, INDICATING NEW CIRCUITING AS FOLLOWS:
   - 'M-' INDICATES NEW CIRCUITING TO NEW PANEL 'MECH'
   - 'MP-' INDICATES NEW CIRCUITING TO NEW PANEL 'MDP'
   - 'MH-' INDICATES NEW CIRCUITING TO NEW PANEL 'MHV'
   - 'ML-' INDICATES NEW CIRCUITING TO NEW PANEL 'MLV-A'
   - 'HV-' INDICATES NEW CIRCUITING TO NEW PANEL 'HV'
   - 'PLA-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-A'
   - 'PLB-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-B'
   - 'PLC-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-C'
   - 'PLD-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-D'
   - 'UPA-' INDICATES NEW CIRCUITING TO NEW PANEL 'UPS-A'
   - 'UPB-' INDICATES NEW CIRCUITING TO NEW PANEL 'UPS-B'
2. COORDINATE ALL CORE DRILLING AND PATCHING OF FLOOR WITH BUILDING OWNER, GENERAL CONTRACTOR, AND STRUCTURAL ENGINEER. USE MINIMUM OF ¾" RIGID STEEL CONDUIT FOR ALL SLAB PENETRATING RUNS.
3. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL SEPARATE CIRCUITS & DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
4. ¾" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, U.O.N.
5. FOR PANEL SCHEDULES, SEE DWGS. E-600, E-601 AND E-602, E-603 AND E-604.
6. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 AND E-101.
7. GC SHALL PROVIDE ACCESS PANELS WHERE NECESSARY TO ALLOW FOR ACCESS TO JUNCTION BOXES OR ELECTRICAL EQUIPMENT THAT IS LOCATED ABOVE HARD CEILINGS. COORDINATE ACCESS PANEL WORK WITH ARCHITECT. ACCESS PANELS @ HARD CEILINGS SHALL BE GFRG-TYPE, AS SPECIFIED BY ARCHITECT.
8. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL OR LOCAL ELECTRICAL CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
9. ALL ELECTRICAL WIRING SYSTEMS SHALL BE IN CONDUIT. THE USE OF "BX" OR "ROMEX" IS NOT PERMITTED. SPEAKER OR LOW VOLTAGE WIRING MUST BE PLENUM RATED OR IN CONDUIT.
10. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
11. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
12. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
13. ALL FLOOR/SURFACE MOUNTED BOXES AND IN-FLOOR/SLAB CONDUIT ROUTING TO BE SUBMITTED FOR STRUCTURAL REVIEW.
14. ALL RACEWAYS, BOTH RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING, SHALL BE THE BEST QUALITY STEEL OF STANDARD DIMENSIONS, HOT GALVANIZED AND SMOOTH BOTH INSIDE AND OUTSIDE. CONDUIT RUNS THAT ARE EXPOSED OR LOCATED IN EXTERIOR WALLS SHALL BE RIGID STEEL. EMT MAY BE USED IN INTERIOR PARTITIONS AND CEILINGS. ALL CONDUIT MUST BE SUSPENDED INDEPENDENTLY AND BE SELF-SUPPORTING AND MUST NOT REST ON OTHER LINES, FIXTURES OR SPRINKLER LINES.
15. THE CONTRACTOR SHALL INCLUDE ALL REQUIRED NEW CONDUITS & WIRING AS PART OF THE BASE BID - NO ALLOWANCES/EXTRAS SHALL BE APPROVED.
16. ALL ELECTRICAL WORK TO BE COORDINATED WITH ARCHITECTURAL AND MILLWORK DRAWINGS, PRIOR TO ROUGH-IN.
17. COORDINATE DEMARCATION POINT WITH LANDLORD.
18. GENERAL CONTRACTOR TO COORDINATE MILLWORK WHIP LOCATION AND CONNECTION WITHIN THE MILLWORK CABINETS WITH MILLWORK CONTRACTOR.
19. PROVIDE 'TWIST-LOCK' L5-15R RECEPTACLE FOR ALL UPS RECEPTACLES. COORDINATE RECEPTACLE COLOR WITH ARCHITECT.
20. PROVIDE ARC-FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT. COORDINATE ARC-FLASH INSPECTION REQUIREMENTS WITH PRIMARK.
21. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
22. IN EACH INSTANCE WHERE TWO OR MORE DEVICE BOXES ARE GENERALLY LOCATED IN THE SAME VICINITY AND AT DIFFERENT ELEVATIONS, MOUNT THE BOXES VERTICALLY ON A COMMON CENTER LINE.
23. ALL CIRCUITS TO COMPUTERS AND ANY OTHER LOADS OF NON-LINEAR NATURE SHALL HAVE A SEPARATE GROUND AND SEPARATE NEUTRAL WIRES. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. DERATE ALL CONDUCTORS AS REQUIRED BY NEC.
24. FOR ALL CORD-AND-PLUG EQUIPMENT, COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. EQUIPMENT AND ASSOCIATED RECEPTACLE SHALL NOT BE CONCEALED ABOVE CEILING PER NEC.
25. ALL DUPLEX RECEPTACLES WITHIN 6'-0" OF A SINK'S EDGE SHALL BE GFCI TYPE.
26. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
27. OPEN SALES AREA COLUMN CONVENIENCE AND SIGNAGE RECEPTACLES SHALL BE MOUNTED TO COLUMN ENCLOSURE, NOT ON FIXTURE FRAMES. COORDINATE EXACT LOCATION WITH ARCHITECT.

REFERENCE NOTES:

1. PROVIDE BACK BOX AND CONDUIT WITH PULL STRING FOR CONNECTION TO SECURITY DEVICE IN THIS AREA. COORDINATE INSTALLATION WITH SECURITY VENDOR AND SECURITY DRAWINGS. COORDINATE EXACT LOCATION WITH ARCHITECT.
2. PROVIDE ALL RECEPTACLES IN THIS AREA WITH A TWIST-LOCK NEMA L5-15 RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE RECEPTACLE COLOR AND EXACT LOCATION WITH ARCHITECT.
3. PROVIDE POWER FOR INTRUDER ALARM PANEL AND VIDEO ENTRY SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE INSTALLATION AND ALL REQUIREMENTS WITH SECURITY VENDOR.
4. PROVIDE POWER FOR MANTRAP CONTROLLER. COORDINATE INSTALLATION WITH SECURITY VENDOR.
5. PROVIDE POWER FOR MANTRAP MAG-LOCKS. COORDINATE INSTALLATION WITH SECURITY VENDOR.
6. A/V RACK TO BE LOCATED IN THIS AREA. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE EXACT LOCATION WITH A/V VENDOR AND ARCHITECT. COORDINATE INSTALLATION WITH A/V VENDOR. REFER TO A/V DRAWINGS FOR ADDITIONAL INFORMATION.
7. PROVIDE ALL RECEPTACLES IN THIS AREA WITH A TWIST-LOCK NEMA L5-15 RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE RECEPTACLE COLOR AND EXACT LOCATION WITH ARCHITECT.
8. IT RACK TO BE LOCATED IN THIS AREA. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE EXACT LOCATION WITH IT VENDOR AND ARCHITECT. COORDINATE INSTALLATION WITH IT VENDOR. REFER TO TELECOM DRAWINGS FOR CONDUIT SIZE AND ROUTING INFORMATION.
9. PROVIDE STUB UP TO AUTOMATIC EXIT GATE IN THIS AREA. COORDINATE INSTALLATION WITH AUTOMATIC EXIT GATE VENDOR. COORDINATE EXACT LOCATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT. INSTALL PER MANUFACTURER SPECIFICATIONS. PROVIDE ALL BACK BOXES, PARTS AND SPECIALTIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
10. PROVIDE A 240A, 3-POLE, 100A UNFUSED LOCAL DISCONNECT SWITCH FOR EQUIPMENT.
11. PROVIDE (3)#1 THHN CU + (1)#8 THHN CU GND IN A 1-1/4"C.
12. PROVIDE (1) WALL MOUNTED BACKBOX AND (1) 3/4" RGS CONDUIT FOR ELEVATOR LIGHTING CAB CONTROLLER.
13. PROVIDE (1) WALL MOUNTED BACKBOX AND (1) 1" RGS CONDUIT WITH PULL STRING FOR ELEVATOR CONTROLLER.
14. PROVIDE BACK BOX AND CONDUIT WITH PULL STRING FOR CONNECTION TO A/V DEVICE IN THIS AREA. COORDINATE INSTALLATION WITH A/V VENDOR AND TELECOM DRAWINGS. COORDINATE EXACT LOCATION WITH ARCHITECT.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
583 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

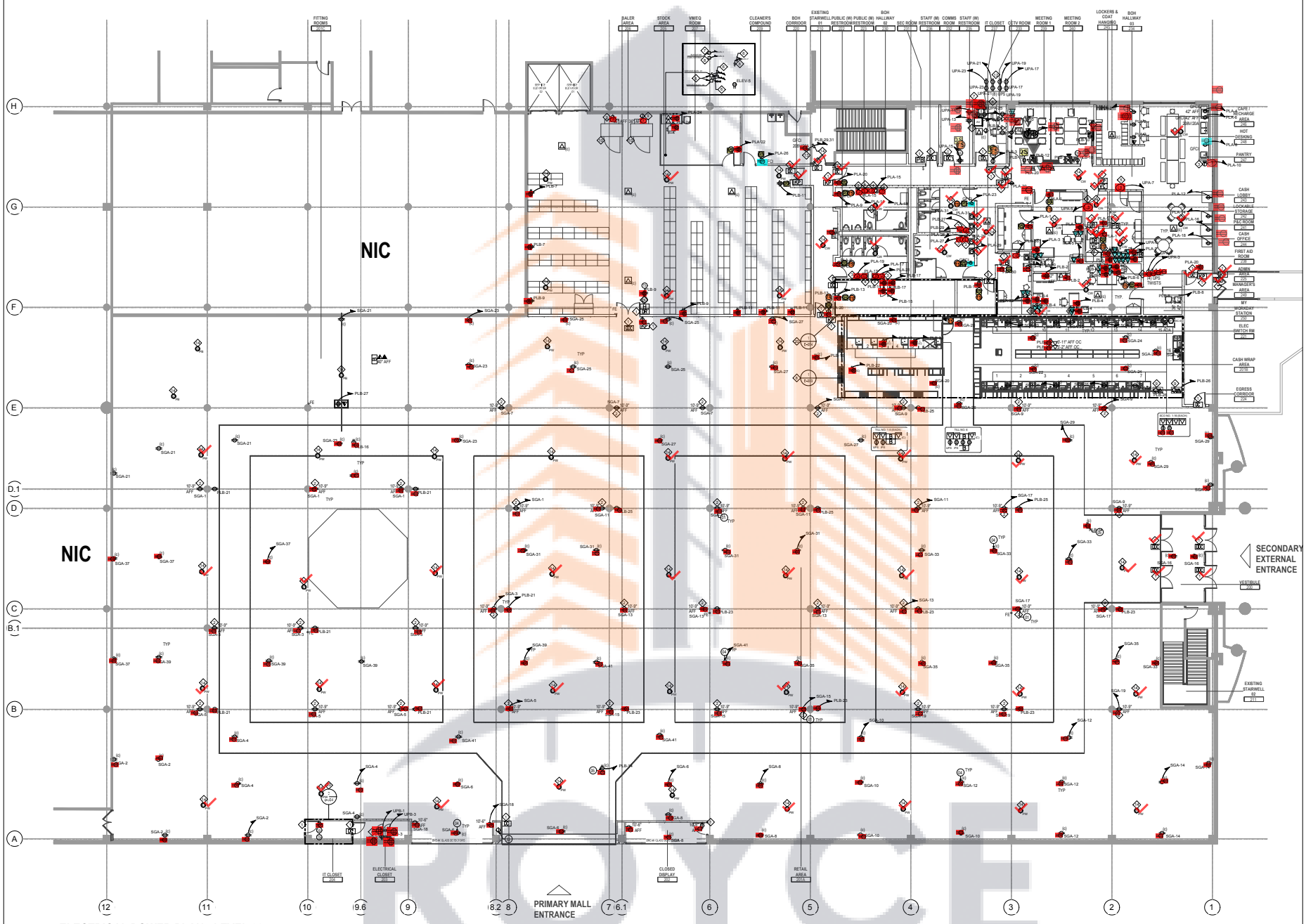
Project Name
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL POWER PLAN - LEVEL 01

Scale
AS NOTED

E-300



ELECTRICAL POWER PLAN - LEVEL 02

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO SHEET E-300 FOR GENERAL PLAN NOTES

REFERENCE NOTES:

- PROVIDE BACK BOX AND CONDUIT WITH PULL STRING FOR CONNECTION TO SECURITY DEVICE IN THIS AREA. COORDINATE INSTALLATION WITH SECURITY VENDOR AND SECURITY DRAWINGS. COORDINATE EXACT LOCATION WITH ARCHITECT.
- PROVIDE DUPLEX RECEPTACLE AT COLUMN FOR CONNECTION TO SPECIAL LIGHT BOX. COORDINATE EXACT LOCATION AND ELEVATION WITH ARCHITECT.
- PROVIDE JUNCTION BOX FOR CONNECTION TO HAND DRYER IN THIS AREA. COORDINATE EXACT LOCATION WITH ARCHITECT. INSTALL PER MANUFACTURER SPECIFICATIONS.
- PROVIDE JUNCTION BOX ABOVE CEILING FOR CONNECTION TO AUTOMATIC FAUCET RECEPTACLES. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR.
- PROVIDE A 600V, 3-POLE, 30AS, 30AF LOCAL DISCONNECT SWITCH FOR EQUIPMENT. COORDINATE LOCATION AND ADDITIONAL REQUIREMENTS FOR COMPLETE INSTALLATION WITH MECHANICAL DRAWINGS.
- PROVIDE (3)#1 THHN CU + (1)#6 THHN CU GND IN A 1-1/4"C.
- PROVIDE (1) WALL MOUNTED BACKBOX AND (1) 3/4" RGS CONDUIT FOR ELEVATOR LIGHTING CAB CONTROLLER.COORDINATE LOCATION AND ADDITIONAL REQUIREMENTS FOR COMPLETE INSTALLATION WITH MECHANICAL DRAWINGS.
- PROVIDE (1) WALL MOUNTED BACKBOX AND (1) 1" RGS CONDUIT WITH PULL STRING FOR ELEVATOR CONTROLLER.COORDINATE LOCATION AND ADDITIONAL REQUIREMENTS FOR COMPLETE INSTALLATION WITH MECHANICAL DRAWINGS.
- PROVIDE (3) #10 THHN CU + (1) #10 THHN CU GND IN A 3/4" C.
- PROVIDE JUNCTION BOX AND LOCAL DISCONNECT IN THIS AREA FOR CONNECTION TO BALER IN THIS AREA. COORDINATE EXACT LOCATION WITH ARCHITECT. INSTALL BALER PER MANUFACTURER SPECIFICATIONS. COORDINATE ALL POWER AND CONNECTION REQUIREMENTS WITH EQUIPMENT VENDOR.
- A/V RACK TO BE LOCATED IN THIS AREA. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE EXACT LOCATION WITH A/V VENDOR AND ARCHITECT. COORDINATE INSTALLATION WITH A/V VENDOR. REFER TO A/V DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE ALL RECEPTACLES IN THIS AREA WITH A TWIST-LOCK NEMA L5-15 RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE RECEPTACLE COLOR AND EXACT LOCATION WITH ARCHITECT.
- PROVIDE (2) #10 THHN CU+ (1) #10 THHN CU N + (1) #10 THHN CU GND IN A 3/4" C.
- PROVIDE WALL MOUNTED RECEPTACLE FOR WASHER/DRYER COMBO UNIT. COORDINATE RECEPTACLE NEMA TYPE CONFIGURATION TO MATCH EQUIPMENT CORD AND PLUG. COORDINATE ALL AESTHETIC CONFIGURATIONS WITH ARCHITECT.
- PROVIDE MOHU HDTV DIGITAL ANTENNA (MODEL# LEAF 50) FOR TV IN THIS AREA. INSTALL PER MANUFACTURERS SPECIFICATIONS. COORDINATE WITH A/V VENDOR.
- PROVIDE JUNCTION BOX FOR WALL MOUNTED PA SYSTEM MICROPHONE CONNECTION. COORDINATE INSTALLATION WITH PA SYSTEM VENDOR.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
580 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

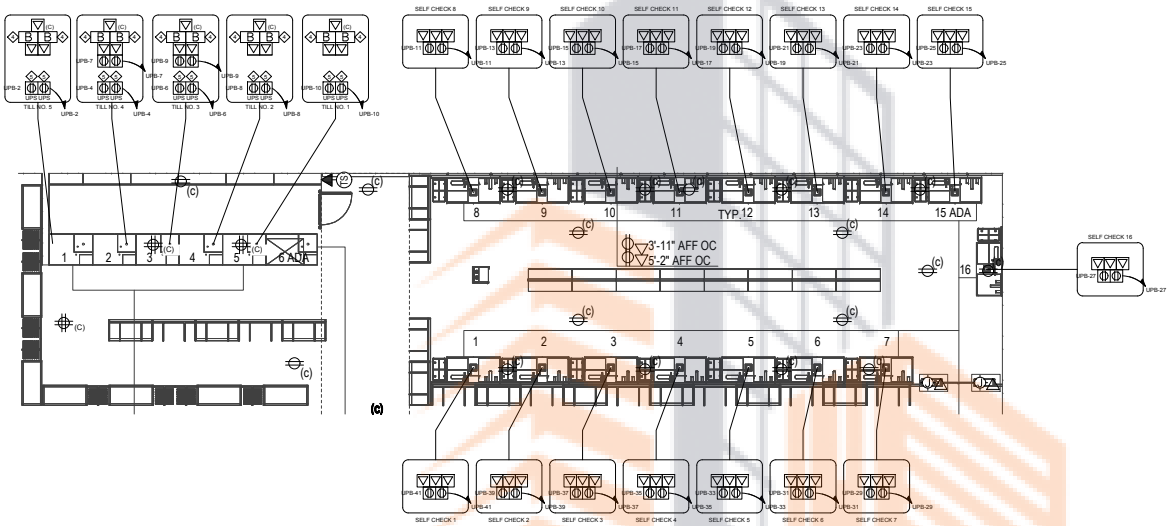
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL POWER PLAN - LEVEL 02

Scale: AS NOTED

E-301



ELECTRICAL POWER PLAN - CASHWRAP LEVEL 02

SCALE: ##########

MEP GENERAL NOTES

1. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND FOR REFERENCE ONLY, INDICATING NEW CIRCUITING AS FOLLOWS:
   - 'M-' INDICATES NEW CIRCUITING TO NEW PANEL 'MECH'
   - 'MP-' INDICATES NEW CIRCUITING TO NEW PANEL 'MDP'
   - 'MH-' INDICATES NEW CIRCUITING TO NEW PANEL 'MHV'
   - 'ML-' INDICATES NEW CIRCUITING TO NEW PANEL 'MLV-A'
   - 'HV-' INDICATES NEW CIRCUITING TO NEW PANEL 'HV'
   - 'PLA-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-A'
   - 'PLB-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-B'
   - 'PLC-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-C'
   - 'PLD-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-D'
   - 'UPA-' INDICATES NEW CIRCUITING TO NEW PANEL 'UPS-A'
   - 'UPB-' INDICATES NEW CIRCUITING TO NEW PANEL 'UPS-B'
2. COORDINATE ALL CORE DRILLING AND PATCHING OF FLOOR WITH BUILDING OWNER, GENERAL CONTRACTOR, AND STRUCTURAL ENGINEER. USE MINIMUM OF 2" RIGID STEEL CONDUIT FOR ALL SLAB PENETRATING RUNS.
3. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL SEPARATE CIRCUITS & DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
4. ¾" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, UON.
5. FOR PANEL SCHEDULES, SEE DWGS. E-600, E-601 AND E-602, E-603 AND E-604.
6. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 AND E-101.
7. GC SHALL PROVIDE ACCESS PANELS WHERE NECESSARY TO ALLOW FOR ACCESS TO JUNCTION BOXES OR ELECTRICAL EQUIPMENT THAT IS LOCATED ABOVE HARD CEILINGS. COORDINATE ACCESS PANEL WORK WITH ARCHITECT. ACCESS PANELS @ HARD CEILINGS SHALL BE GFRG-TYPE, AS SPECIFIED BY ARCHITECT.
8. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL OR LOCAL ELECTRICAL CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
9. ALL ELECTRICAL WIRING SYSTEMS SHALL BE IN CONDUIT. THE USE OF "BX" OR "ROMEX" IS NOT PERMITTED. SPEAKER OR LOW VOLTAGE WIRING MUST BE PLENUM RATED OR IN CONDUIT.
10. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
11. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
12. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
13. ALL FLOOR/SURFACE MOUNTED BOXES AND IN-FLOOR/SLAB CONDUIT ROUTING TO BE SUBMITTED FOR STRUCTURAL REVIEW.
14. ALL RACEWAYS, BOTH RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING, SHALL BE THE BEST QUALITY STEEL OF STANDARD DIMENSIONS, HOT GALVANIZED AND SMOOTH BOTH INSIDE AND OUTSIDE. CONDUIT RUNS THAT ARE EXPOSED OR LOCATED IN EXTERIOR WALLS SHALL BE RIGID STEEL. EMT MAY BE USED IN INTERIOR PARTITIONS AND CEILINGS. ALL CONDUIT MUST BE SUSPENDED INDEPENDENTLY AND BE SELF-SUPPORTING AND MUST NOT REST ON OTHER LINES, FIXTURES OR SPRINKLER LINES.
15. THE CONTRACTOR SHALL INCLUDE ALL REQUIRED NEW CONDUITS & WIRING AS PART OF THE BASE BID - NO ALLOWANCES/EXTRAS SHALL BE APPROVED.
16. ALL ELECTRICAL WORK TO BE COORDINATED WITH ARCHITECTURAL AND MILLWORK DRAWINGS, PRIOR TO ROUGH-IN.
17. COORDINATE DEMARCATION POINT WITH LANDLORD.
18. GENERAL CONTRACTOR TO COORDINATE MILLWORK WHIP LOCATION AND CONNECTION WITHIN THE MILLWORK CABINETS WITH MILLWORK CONTRACTOR.
19. PROVIDE 'TWIST-LOCK' L5-15R RECEPTACLE FOR ALL UPS RECEPTACLES. COORDINATE RECEPTACLE COLOR WITH ARCHITECT.
20. PROVIDE ARC-FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT. COORDINATE ARC-FLASH INSPECTION REQUIREMENTS WITH PRIMARK.
21. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
22. IN EACH INSTANCE WHERE TWO OR MORE DEVICE BOXES ARE GENERALLY LOCATED IN THE SAME VICINITY AND AT DIFFERENT ELEVATIONS, MOUNT THE BOXES VERTICALLY ON A COMMON CENTER LINE.
23. ALL CIRCUITS TO COMPUTERS AND ANY OTHER LOADS OF NON-LINEAR NATURE SHALL HAVE A SEPARATE GROUND AND SEPARATE NEUTRAL WIRES. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. DERATE ALL CONDUCTORS AS REQUIRED BY NEC.
24. FOR ALL CORD-AND-PLUG EQUIPMENT, COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. EQUIPMENT AND ASSOCIATED RECEPTACLE SHALL NOT BE CONCEALED ABOVE CEILING PER NEC.
25. ALL DUPLEX RECEPTACLES WITHIN 6'-0" OF A SINK'S EDGE SHALL BE GFCI TYPE.
26. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
27. OPEN SALES AREA COLUMN CONVENIENCE AND SIGNAGE RECEPTACLES SHALL BE MOUNTED TO COLUMN ENCLOSURE, NOT ON FIXTURE FRAMES. COORDINATE EXACT LOCATION WITH ARCHITECT.

REFERENCE NOTES

1. PROVIDE FLUSH CEILING-MOUNTED RECEPTACLE FOR CONNECTION TO CALL FORWARD SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT.
2. PROVIDE JUNCTION BOX FOR CONNECTION TO TELEPHONE SYSTEM IN THIS AREA. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE EXACT REQUIREMENTS WITH TELECOM VENDOR.
3. PROVIDE 2-SECTION WIREWAY THROUGHOUT CASHWRAP. ALL CASHWRAP CABLING TO BE RUN THROUGH CASHWRAP ENDS. ALL CABLING TO BE TRUNKED WITHIN MILLWORK BASE TO ALL OTHER DESKS. COORDINATE CABLE RUN WITH MILLWORK VENDOR AND ARCHITECT.
4. PROVIDE BACK BOX AND CONDUIT FOR CONNECTION TO CALL FORWARD SYSTEM. COORDINATE INSTALLATION WITH CALL FORWARD SYSTEM VENDOR. COORDINATE EXACT LOCATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT.
5. PROVIDE ALL UPS RECEPTACLES IN THIS AREA WITH A TWIST-LOCK NEMA L5-15 RECEPTACLE. INSTALL PER MANUFACTURER SPECIFICATIONS. COORDINATE RECEPTACLE COLOR WITH ARCHITECT.
6. PROVIDE BELL SYSTEM PUSHBUTTON (MODEL: HONEYWELL RPW102A1001/A) AT EACH CASHWRAP LOCATION AND CIRCUIT IN A PARALLEL FOR CASHWRAP NOTIFICATION BELL. COORDINATE EXACT LOCATION WITH THE ARCHITECT.
7. PROVIDE (3) 2" RGS CONDUIT FOR POWER WIRING. PROVIDE LOW VOLTAGE CONDUITS AS REQUIRED. REFER TO TELECOM DRAWINGS FOR ALL LOW VOLTAGE REQUIREMENTS IN THIS AREA. RUN CONDUIT WITHIN TRENCHED FLOOR AS SHOWN. COORDINATE EXACT CONDUIT ROUTE WITH ARCHITECT, STRUCTURAL ENGINEER. COORDINATE TRENCHING OF FLOOR WITH BUILDING MANAGEMENT PRIOR TO BID.
8. PROVIDE STUB UP TO WIREWAY IN THIS LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT, MILLWORK AND WIREWAY VENDOR.
9. PROVIDE STUB UP TO AUTOMATIC EXIT GATE IN THIS AREA. COORDINATE INSTALLATION WITH AUTOMATIC EXIT GATE VENDOR. COORDINATE EXACT LOCATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT. INSTALL PER MANUFACTURER SPECIFICATIONS. PROVIDE ALL BACK BOXES, PARTS AND SPECIALTIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
10. PROVIDE (1) 2" RGS C FOR POWER WIRING AND (1) 1" RGS C WITH PULL STRING FOR LOW VOLTAGE CABLING. RUN CONDUIT WITHIN TRENCHED FLOOR AS SHOWN. COORDINATE EXACT CONDUIT ROUTE WITH ARCHITECT, STRUCTURAL ENGINEER. COORDINATE TRENCHING OF FLOOR WITH BUILDING MANAGEMENT PRIOR TO BID. REFER TO TELECOM SET FOR LOW VOLTAGE CABLING INFORMATION AND ADDITIONAL REQUIREMENTS IN THIS AREA.
11. PROVIDE (2) 2" RGS C WITH PULL STRING FOR DATA WIRING. RUN CONDUIT WITHIN TRENCHED FLOOR AS SHOWN. COORDINATE EXACT CONDUIT ROUTE WITH ARCHITECT, STRUCTURAL ENGINEER. COORDINATE TRENCHING OF FLOOR WITH BUILDING MANAGEMENT PRIOR TO BID. REFER TO TELECOM SET FOR LOW VOLTAGE CABLING INFORMATION AND ADDITIONAL REQUIREMENTS IN THIS AREA.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
111 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
580 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

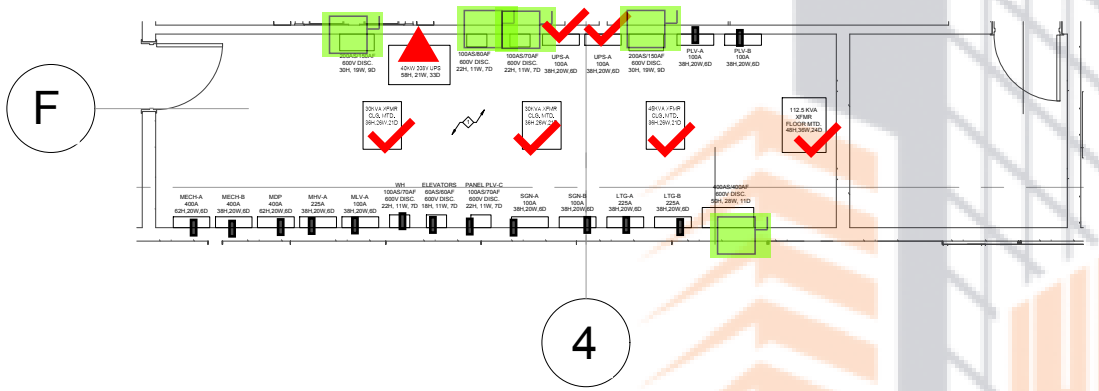
Project Name
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL POWER PART PLAN - CASHWRAP - LEVEL 02

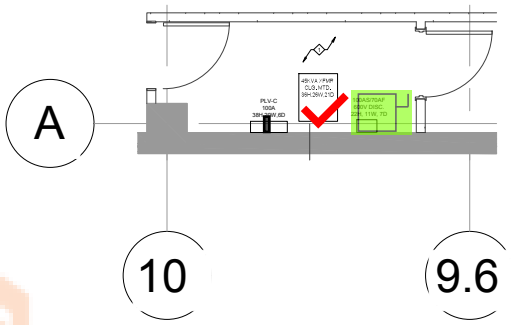
Scale
AS NOTED

E-302



ELECTRICAL MAIN ELECTRICAL ROOM PART PLAN 1 - LEVEL 02

SCALE: 1/2" = 1'-0"



ELECTRICAL REMOTE ELECTRIC CLOSET PART PLAN 2 - LEVEL 02

SCALE: 1/2" = 1'-0"

MEP GENERAL NOTES

1. COORDINATE ALL CORE DRILLING AND PATCHING OF FLOOR WITH BUILDING OWNER, GENERAL CONTRACTOR, AND STRUCTURAL ENGINEER. USE MINIMUM OF ¾" RIGID STEEL CONDUIT FOR ALL SLAB PENETRATING RUNS.
2. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL SEPARATE CIRCUITS & DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
3. ¾" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, UON.
4. FOR PANEL SCHEDULES, SEE DWGS. E-600, E-601 AND E-602, E-603 AND E-604.
5. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 AND E-101.
6. GC SHALL PROVIDE ACCESS PANELS WHERE NECESSARY TO ALLOW FOR ACCESS TO JUNCTION BOXES OR ELECTRICAL EQUIPMENT THAT IS LOCATED ABOVE HARD CEILINGS. COORDINATE ACCESS PANEL WORK WITH ARCHITECT. ACCESS PANELS @ HARD CEILINGS SHALL BE GFRG-TYPE, AS SPECIFIED BY ARCHITECT.
7. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL OR LOCAL ELECTRICAL CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
8. ALL ELECTRICAL WIRING SYSTEMS SHALL BE IN CONDUIT. THE USE OF "BX" OR "ROMEX" IS NOT PERMITTED. SPEAKER OR LOW VOLTAGE WIRING MUST BE PLENUM RATED OR IN CONDUIT.
9. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
10. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
11. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
12. ALL FLOOR/SURFACE MOUNTED BOXES AND IN-FLOOR/SLAB CONDUIT ROUTING TO BE SUBMITTED FOR STRUCTURAL REVIEW.
13. ALL RACEWAYS, BOTH RIGID STEEL CONDUIT AND ELECTRICAL METALLIC TUBING, SHALL BE THE BEST QUALITY STEEL OF STANDARD DIMENSIONS, HOT GALVANIZED AND SMOOTH BOTH INSIDE AND OUTSIDE. CONDUIT RUNS THAT ARE EXPOSED OR LOCATED IN EXTERIOR WALLS SHALL BE RIGID STEEL. EMT MAY BE USED IN INTERIOR PARTITIONS AND CEILINGS. ALL CONDUIT MUST BE SUSPENDED INDEPENDENTLY AND BE SELF-SUPPORTING AND MUST NOT REST ON OTHER LINES, FIXTURES OR SPRINKLER LINES.
14. THE CONTRACTOR SHALL INCLUDE ALL REQUIRED NEW CONDUITS & WIRING AS PART OF THE BASE BID - NO ALLOWANCES/EXTRAS SHALL BE APPROVED.
15. ALL ELECTRICAL WORK TO BE COORDINATED WITH ARCHITECTURAL AND MILLWORK DRAWINGS, PRIOR TO ROUGH-IN.
16. COORDINATE DEMARCATION POINT WITH LANDLORD.
17. GENERAL CONTRACTOR TO COORDINATE MILLWORK WHIP LOCATION AND CONNECTION WITHIN THE MILLWORK CABINETS WITH MILLWORK CONTRACTOR.
18. PROVIDE 'TWIST-LOCK' L5-15R RECEPTACLE FOR ALL UPS RECEPTACLES. COORDINATE RECEPTACLE COLOR WITH ARCHITECT.
19. PROVIDE ARC-FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT. COORDINATE ARC-FLASH INSPECTION REQUIREMENTS WITH PRIMARK.
20. PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
21. IN EACH INSTANCE WHERE TWO OR MORE DEVICE BOXES ARE GENERALLY LOCATED IN THE SAME VICINITY AND AT DIFFERENT ELEVATIONS, MOUNT THE BOXES VERTICALLY ON A COMMON CENTER LINE.
22. ALL CIRCUITS TO COMPUTERS AND ANY OTHER LOADS OF NON-LINEAR NATURE SHALL HAVE A SEPARATE GROUND AND SEPARATE NEUTRAL WIRES. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED. DEBATE ALL CONDUCTORS AS REQUIRED BY NEC.
23. FOR ALL CORD-AND-PLUG EQUIPMENT, COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER. EQUIPMENT AND ASSOCIATED RECEPTACLE SHALL NOT BE CONCEALED ABOVE CEILING PER NEC.
24. ALL DUPLEX RECEPTACLES WITHIN 6'-0" OF A SINK'S EDGE SHALL BE GFCI TYPE.
25. CONTRACTOR SHALL COORDINATE THE COLOR OF ALL DEDICATED ELECTRICAL OUTLETS WITH THE ARCHITECT.
26. OPEN SALES AREA COLUMN CONVENIENCE AND SIGNAGE RECEPTACLES SHALL BE MOUNTED TO COLUMN ENCLOSURE, NOT ON FIXTURE FRAMES. COORDINATE EXACT LOCATION WITH ARCHITECT.

REFERENCE NOTES

1. ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL REQUIRED CLEARANCES FROM OVERHEAD PIPING IN THIS AREA PER NEC REQUIREMENTS.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
555 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

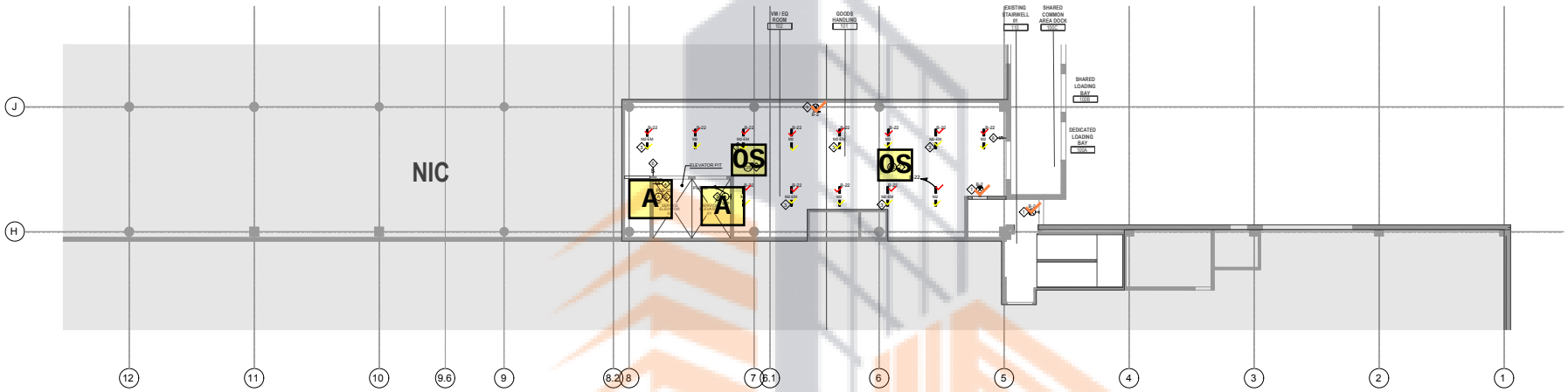
Project Name
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL POWER PART PLAN
MAIN ELECTRICAL ROOMS
- LEVEL 02

Scale
AS NOTED

E-303



ELECTRICAL LIGHTING PLAN - LEVEL 01

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND FOR REFERENCE ONLY. INDICATING NEW CIRCUITING AS FOLLOWS:
   CIRCUIT DESIGNATION 'A-' REFERS TO PANEL 'LTG-A'.
   CIRCUIT DESIGNATION 'B-' REFERS TO PANEL 'LTG-B'.
2. '#' SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, UON.
3. FOR LIGHTING PANEL SCHEDULES, SEE DWGS E-600, E-601, E-602, E-603, E-604 AND E-605.
4. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 & E-101.
5. COORDINATE ALL SWITCHING REQUIREMENTS AND SWITCH LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE.
7. LIGHTING FIXTURES SUPPLIED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
8. EMERGENCY AND EXIT LIGHT FIXTURE TYPES AND LOCATIONS ARE SUBJECT TO BUILDING DEPARTMENT AND FIRE DEPARTMENT APPROVAL. COORDINATE ALL SPECIFICATIONS WITH ARCHITECTURAL DRAWINGS AND LANDLORD REQUIREMENTS/CRITERIA PRIOR TO COMMENCEMENT.
9. ALL WIRING MUST BE IN CONDUIT. FLEXIBLE CONDUIT IS TO BE USED FOR SHORT FINAL CONNECTIONS ONLY.
10. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
11. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
12. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL GUIDELINES AND REGULATIONS WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
13. CONTRACTOR TO LABEL ELECTRICAL PANEL CIRCUITS AND MASTER LIGHTING SWITCH.
14. EMERGENCY AND EXIT LIGHTING SHALL BE PROVIDED BY THE TENANT AS REQUIRED IN ACCORDANCE WITH ARTICLE 700 OF THE NEC. EMERGENCY AND EXIT LIGHTING SHALL BE PROVIDED WITH 90 MINUTE BATTERY BACK-UP.
15. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRIC CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
16. ALL LIGHTING SHALL BE CIRCUITED, POWERED AND CONTROLLED THROUGH LUTRON QUANTUM LIGHTING CONTROL SYSTEM. COORDINATE INSTALLATION OF LIGHT FIXTURES AND LIGHTING CONTROL SYSTEM WITH LUTRON.

REFERENCE NOTES:

1. PROVIDE EDGE LIT LOCALLY APPROVED WITH INTEGRAL MINIMUM 90-MINUTE BATTERY BACKUP EXIT SIGN. CIRCUIT EXIT SIGN AHEAD OF ANY CONTROL FOR CONSTANT ILLUMINATION. COORDINATE EXACT LOCATION, MOUNTING OPTIONS AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT.
2. PROVIDE ENCORE LIGHTING 12ELP-64-2-E EMERGENCY LIGHTING FIXTURE WITH INTEGRAL MINIMUM 90-MINUTE BATTERY BACKUP. EMERGENCY LIGHTING FIXTURE SHALL BE PENDANT MOUNTED ON 6' STEM FROM DECK. COORDINATE EXACT LOCATION AND MOUNTING DETAIL WITH ARCHITECT.
3. PROVIDE EMERGENCY LIGHTING FIXTURE WITH MINIMUM 90-MINUTE BATTERY BACKUP. CIRCUIT EMERGENCY FIXTURE AHEAD OF ANY CONTROL FOR CONSTANT ILLUMINATION UPON LOSS OF POWER.
4. PROVIDE WALL MOUNTED LINE VOLTAGE ON/OFF TOGGLE SWITCH. PROVIDE (1) SWITCH PER CONTROL ZONE. "WP" DENOTES WEATHER PROOF TYPE.
5. PROVIDE LED VAPORTIGHT JAR LIGHT, SEALED GASKET PROTECTED WALL OR CEILING MOUNTED, AS INDICATED IN DRAWING. HEAT AND SHOCK RESISTANT GLASS WITH CAST ALUMINUM BAYONET GUARD. UL WET LOCATION LISTED. LIGHTING FIXTURE BY LITONIA LIGHTING MODEL OLVTWM-40SOK-120V, 15 WATT, LED FIXTURE.
6. PROVIDE LUTRON QWP-U-RW-WH 4-BUTTON PALLADIOM WALLSTATION. WALL STATION SHALL BE WIRELESSLY CONNECTED TO LUTRON OCCUPANCY / VACANCY SENSOR FOR SECONDARY CONTROL OF LIGHT FIXTURES IN THIS AREA. WALL SWITCH SHALL BE PROGRAMMED WITH ON, OFF, RAISE AND LOWER FUNCTIONS. COORDINATE ENGRAVING OF WALLSTATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT. PROVIDE QS CONTROL LINK CABLE FROM ATHENA LIGHT MANAGEMENT HUB TO THIS AND ALL OTHER WALLSTATIONS. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
7. PROVIDE LUTRON LRF2-OCRGB-P-WH CEILING MOUNTED, WIRELESS OCCUPANCY SENSOR TO MAINTAIN CONTROL OF LIGHTING IN THIS AREA WHEN OCCUPIED. OCCUPANCY SENSOR SHALL BE PROGRAMMED FOR AUTO-ON, AUTO-OFF CONTROL OF LIGHT FIXTURES IN THIS AREA. INSTALL PER MANUFACTURERS SPECIFICATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
330 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

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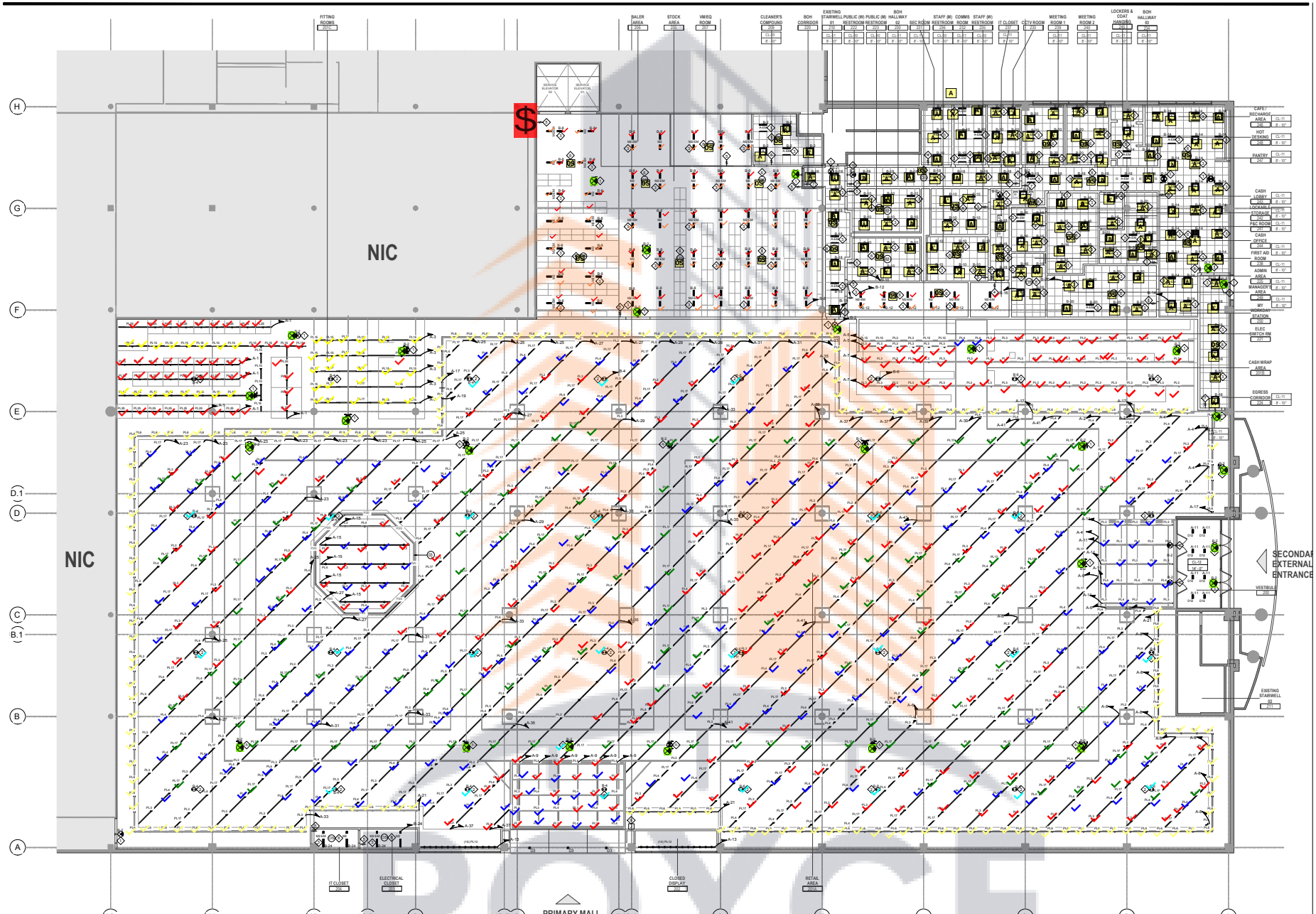
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL LIGHTING PLAN - LEVEL 01

Scale
AS NOTED

E-400



ELECTRICAL LIGHTING PLAN - LEVEL 02

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. CIRCUIT NUMBERS ARE FOR GROUPING PURPOSES AND FOR REFERENCE ONLY, INDICATING NEW CIRCUITING AS FOLLOWS:
   - 'A-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-A'.
   - 'B-' INDICATES NEW CIRCUITING TO NEW PANEL 'PLV-B'.
2. ¾" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED, #10 THHN SHALL BE THE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING, UON.
3. FOR LIGHTING PANEL SCHEDULES, SEE DWGS E-600, E-601, E-602, E-603, E-604 AND E-605.
4. FOR GENERAL NOTES AND SYMBOLS LIST, SEE DWGS. E-100 & E-101.
5. COORDINATE ALL SWITCHING REQUIREMENTS AND SWITCH LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE.
7. LIGHTING FIXTURES SUPPLIED BY OTHERS, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
8. EMERGENCY AND EXIT LIGHT FIXTURE TYPES AND LOCATIONS ARE SUBJECT TO BUILDING DEPARTMENT AND FIRE DEPARTMENT APPROVAL. COORDINATE ALL SPECIFICATIONS WITH ARCHITECTURAL DRAWINGS AND LANDLORD REQUIREMENTS/CRITERIA PRIOR TO COMMENCEMENT.
9. ALL WIRING MUST BE IN CONDUIT. FLEXIBLE CONDUIT IS TO BE USED FOR SHORT FINAL CONNECTIONS ONLY.
10. NO FLEXIBLE CONDUIT PERMITTED IN DEMISING WALLS. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE.
11. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHENEVER THEY RUN ALONGSIDE OR ACROSS SUCH LINES.
12. TENANT'S CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL GUIDELINES AND REGULATIONS WITHIN THE LANDLORD'S TENANT CRITERIA MANUAL.
13. CONTRACTOR TO LABEL ELECTRICAL PANEL CIRCUITS AND MASTER LIGHTING SWITCH.
14. EMERGENCY AND EXIT LIGHTING SHALL BE PROVIDED BY THE TENANT AS REQUIRED IN ACCORDANCE WITH ARTICLE 700 OF THE NEC. EMERGENCY AND EXIT LIGHTING SHALL BE PROVIDED WITH 90 MINUTE BATTERY BACK-UP.
15. ENTIRE INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRIC CODES. ALL EQUIPMENT SHALL BEAR UL LABELS.
16. ALL LIGHTING SHALL BE CIRCUITED, POWERED AND, CONTROLLED THROUGH LUTRON QUANTUM LIGHTING CONTROL SYSTEM. COORDINATE INSTALLATION OF LIGHT FIXTURES AND LIGHTING CONTROL SYSTEM WITH LUTRON.

REFERENCE NOTES:

- PROVIDE EDGE LIT LOCALLY APPROVED WITH INTEGRAL MINIMUM 90-MINUTE BATTERY BACKUP EXIT SIGN. CIRCUIT EXIT SIGN AHEAD OF ANY CONTROL FOR CONSTANT ILLUMINATION. COORDINATE EXACT LOCATION, MOUNTING OPTIONS AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT.
- PROVIDE ENCORE LIGHTING 12ELP-54-2-B EMERGENCY LIGHTING FIXTURE WITH INTEGRAL MINIMUM 90-MINUTE BATTERY BACKUP. EMERGENCY LIGHTING FIXTURE SHALL BE PENDANT MOUNTED ON 6' STEM FROM DECK. COORDINATE EXACT LOCATION AND MOUNTING DETAIL WITH ARCHITECT.
- PROVIDE EMERGENCY LIGHTING FIXTURE WITH MINIMUM 90-MINUTE BATTERY BACKUP. CIRCUIT EMERGENCY FIXTURE AHEAD OF ANY CONTROL FOR CONSTANT ILLUMINATION UPON LOSS OF POWER.
- PROVIDE LUTRON LRF2-OWLB-P-WH WALL MOUNTED VACANCY SENSOR AND LUTRON QWP-U-RW-WH 4-BUTTON PALLADIUM WALLSTATION. WALL STATION SHALL BE WIRELESSLY CONNECTED TO LUTRON OCCUPANCY / VACANCY SENSOR FOR SECONDARY CONTROL OF LIGHT FIXTURES IN THIS AREA. WALL SWITCH SHALL BE PROGRAMMED WITH ON, OFF, RAISE AND LOWER FUNCTIONS. OCCUPANCY / VACANCY SENSOR SHALL BE PROGRAMMED FOR MANUAL ON, AUTO-OFF CONTROL OF LIGHTING IN THIS AREA. INSTALL PER MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE EXACT LOCATION WITH ARCHITECT AND LUTRON. COORDINATE INSTALLATION AND ALL ADDITIONAL REQUIREMENTS AND SPECIALTIES WITH LUTRON. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
- PROVIDE LUTRON QWP-U-RW-WH 4-BUTTON PALLADIUM WALLSTATION. WALL STATION SHALL BE WIRELESSLY CONNECTED TO LUTRON OCCUPANCY / VACANCY SENSOR FOR SECONDARY CONTROL OF LIGHT FIXTURES IN THIS AREA. WALL SWITCH SHALL BE PROGRAMMED WITH ON, OFF, RAISE AND LOWER FUNCTIONS. COORDINATE ENGRAVING OF WALLSTATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT. PROVIDE QS CONTROL LINK CABLE FROM ATHENA LIGHT MANAGEMENT HUB TO THIS AND ALL OTHER WALLSTATIONS. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
- PROVIDE LUTRON LRF2-OCR2B-P-WH CEILING MOUNTED, WIRELESS OCCUPANCY SENSOR TO MAINTAIN CONTROL OF LIGHTING IN THIS AREA WHEN OCCUPIED. OCCUPANCY SENSOR SHALL BE PROGRAMMED FOR AUTO-ON, AUTO-OFF CONTROL OF LIGHT FIXTURES IN THIS AREA. INSTALL PER MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
- PROVIDE LUTRON QSWS2-SBRLN-WH 5-BUTTON SCENE SELECT WALLSTATION WITH RAISE / LOWER FUNCTIONALITY FOR CONTROL OF LIGHT FIXTURES IN THE BACK OF HOUSE. COORDINATE SCENE SELECTION AND FINAL ZONING WITH ARCHITECT AND PRIMARK. COORDINATE ENGRAVING OF WALLSTATION AND ALL AESTHETIC CONSIDERATIONS WITH ARCHITECT. PROVIDE QS CONTROL LINK CABLE FROM ATHENA LIGHT MANAGEMENT HUB TO THIS AND ALL OTHER WALLSTATIONS. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
- PROVIDE LUTRON LRF2-OCR2B-P-WH CEILING MOUNTED, WIRELESS OCCUPANCY SENSOR TO MAINTAIN CONTROL OF LIGHTING IN THIS AREA WHEN OCCUPIED. OCCUPANCY SENSOR SHALL BE PROGRAMMED TO DIM LIGHT FIXTURES TO LOW LEVEL AFTER 7.5 MINUTES OF VACANCY AND TURN OFF LIGHT FIXTURES COMPLETELY AFTER 10 MINUTES OF VACANCY. INSTALL PER MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE PROGRAMMING AND INSTALLATION WITH LUTRON. PROVIDE ALL ADDITIONAL EQUIPMENT AND SPECIALTIES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO LUTRON SINGLE LINE DIAGRAM ON DWG E-701 FOR ADDITIONAL INFORMATION.
- PROVIDE JUNCTION BOX AND CONDUIT WITH PULL STRING FOR CONNECTION TO LAST MAN OUT SWITCH IN THIS AREA. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE INSTALLATION. ALL ADDITIONAL REQUIREMENTS AND TIE-IN TO QUANTUM LIGHTING CONTROL SYSTEM WITH LUTRON AND BMS VENDOR.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
555 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

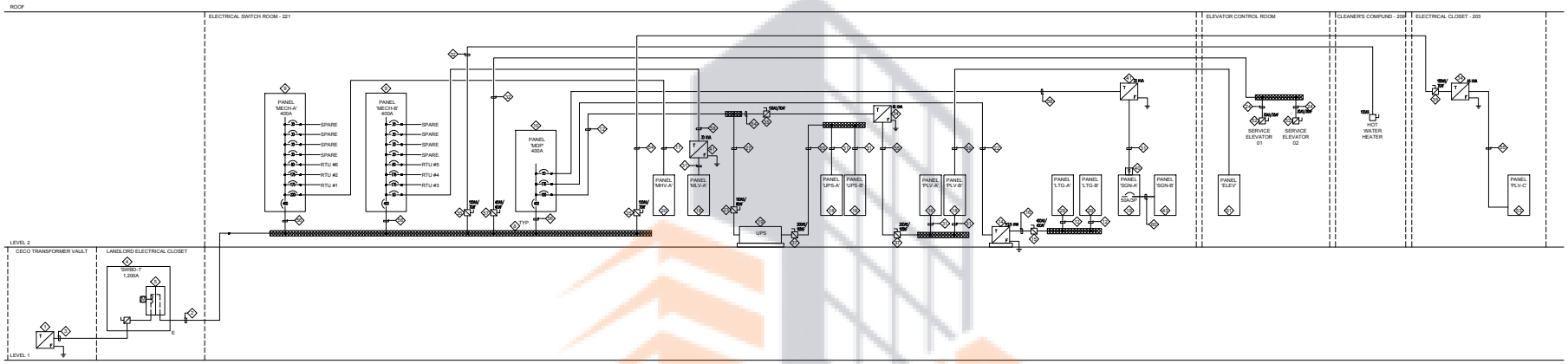
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL LIGHTING PLAN - LEVEL 02

Scale: AS NOTED

E-401



ELECTRICAL POWER RISER DIAGRAM

SCALE: NONE

REFERENCE NOTES:

1. EXISTING BUILDING UTILITY TRANSFORMER.
2. LANDLORD PROVIDED (3) SETS OF (4) #600 KCMIL THHN CU IN A 3 1/2" C.
3. EXISTING LANDLORD FEEDER.
4. EXISTING LANDLORD 1,200A, 480V, 3P, 4W, DISTRIBUTION SWITCHBOARD.
5. EXISTING LANDLORD CURRENT TRANSFORMER AND ELECTRICAL SUBMETER.
6. EXISTING LANDLORD 1,200A, 600V, 3P, 4W DISCONNECT SWITCH FUSED AT 1,200A.
7. NOT USED.
8. PROVIDE FEEDER TROUGH AND TAP FEEDER PER NEC.
9. PROVIDE 800A, 480/277V, 3-Ø, 4W, DISTRIBUTION PANELBOARD WITH 100% FULLY SERVICE RATED 800A MCB. PROVIDE I-LINE PANELBOARD BY SQUARE D.
10. PROVIDE 400A, 480/277V, 3-Ø, 4W, DISTRIBUTION PANELBOARD WITH 400A MCB. PROVIDE I-LINE PANELBOARD BY SQUARE D.
11. PROVIDE 100A, 240V, 3P, 4W, DISCONNECT SWITCH FUSED AT 100A.
12. PROVIDE (4)#2/0 THHN CU + (1)#6 THHN CU GND IN A 2"C.
13. PROVIDE 200A, 600V, 3P, 4W, DISCONNECT SWITCH.
14. PROVIDE 112.5KVA, 480-208Y/120V, STEP-DOWN, COPPER WOUND, DRY TYPE TRANSFORMER. FLOOR-MOUNT ON MINIMUM 6" CONCRETE PAD. PROVIDE (1)#1/0 THHN CU IN A ¾"C AND GROUND TO BUILDING STEEL. REFER TO DETAIL ON DRAWING E-700.
15. PROVIDE 400A, 240V, 3P, 4W, DISCONNECT SWITCH FUSED AT 400A.
16. PROVIDE (4)#600MCM THHN CU + (1)#3 THHN CU GND IN A 3½"C.
17. PROVIDE (4)#4/0 THHN CU + (1)#4 THHN CU GND IN A 2 1/2"C..
18. PROVIDE 100A, 208/120V, 3P, 4W, 42-POSITION, PANELBOARD WITH 100A MCB.
19. PROVIDE 40KW UPS. SEE SPECIFICATIONS. COORDINATE INSTALLATION WITH SCHNEIDER ELECTRIC.
20. PROVIDE 225A BUS, 480/277V, 3Ø, 4W, MLO PANELBOARD.
21. LANDLORD PROVIDED (4) #1/0 THHN CU + (1) #3 THHN CU GND. IN A 1 ½" C.
22. PROVIDE (3)#2/0 THHN CU + (1)#6 THHN CU GND IN A 2"C.
23. PROVIDE 100A, 600V, 3P, 4W, DISCONNECT SWITCH FUSED AT 80A.
24. PROVIDE (3)#10 THHN CU + (1)#10 THHN CU GND IN A ¾ "C.
25. PROVIDE 400A, 600V, 3P, 4W, DISCONNECT SWITCH.
26. LANDLORD TO PROVIDE 200A, 600V, 3P, 4W, DISCONNECT SWITCH FUSED AT 150A. COORDINATE EXACT LOCATION WITH LANDLORD.
27. PROVIDE (4)#2 THHN CU + (1)#8 THHN CU GND IN A 1-1/4"C.
28. PROVIDE (2) SETS OF (4)#600MCM THHN CU + (1)#1/0 THHN CU GND IN A 3½"C.
29. PROVIDE 225A, 208/120V, 3P, 4W, 42-POSITION, PANELBOARD WITH 150A MCB. POWERLINK G3 LIGHTING CONTROL PANEL BY SCHNEIDER ELECTRIC. PROVIDE CONTROL FROM BUILDING MANAGEMENT SYSTEM.
30. PROVIDE SPD (SURGE PROTECTIVE DEVICE) FOR SWITCH/PANELBOARD. PROVIDE POWER FROM SPARE CIRCUIT IN PANEL 'EM-L'. SEE PANEL SCHEDULE ON DRAWING E-601 FOR MORE INFORMATION.
31. PROVIDE (4)#2 THHN CU + (1)#6 THHN CU GND IN A 1¼"C.
32. PROVIDE (3)#4 THHN CU + (1)#8 THHN CU GND IN A 1¼"C.
33. PROVIDE 100A, 208V, 3Ø, 4W DISCONNECT SWITCH FUSED AT 100A.
34. PROVIDE 45KVA, 480-208Y/120V, STEP-DOWN, COPPER WOUND, DRY TYPE CEILING-MTD TO STRUCTURAL BUILDING STEEL TRANSFORMER. PROVIDE (1)#6 THHN CU IN A ¾"C AND GROUND TO BUILDING STEEL. COORDINATE WITH STRUCTURAL ENGINEER. REFER TO DETAIL ON DRAWING E-700.
35. PROVIDE 100A, 600V, 3P, 4W, DISCONNECT SWITCH FUSED AT 70A.
36. PROVIDE (3)#1/0 THHN CU + (1)#6 THHN CU GND IN A 2"C.
37. PROVIDE 200A, 600V, 3P, 4W, DISCONNECT SWITCH FUSED AT 150A.
38. PROVIDE (4)#8 THHN CU + (1)#10 THHN CU GND IN A ¾"C.
39. NOT USED.
40. PROVIDE 100A, 208/120V, 3Ø, 4W, LIGHTING CONTACTOR. PROVIDE CONTACTOR CONTROL FROM BUILDING MANAGEMENT SYSTEM. PROVIDE ALL REQUIRED COMPONENTS AND CABLING REQUIRED FOR CONTACTOR CONTROL FROM BMS AS SPECIFIED BY MANUFACTURER.
41. PROVIDE 30KVA, 480-208Y/120V, STEP-DOWN, COPPER WOUND, DRY TYPE TRANSFORMER.CEILING-MOUNT TO STRUCTURAL BUILDING STEEL. COORDINATE WITH STRUCTURAL ENGINEER. PROVIDE (1)#8 THHN CU IN A ¾"C AND GROUND TO BUILDING STEEL. REFER TO DETAIL ON DRAWING E-700.
42. PROVIDE (4) #3 THHN CU + (1) #8 THHN CU GND IN A 1 ¼" C.
43. PROVIDE 60A, 208/120V, 3-I, 4W, 24-POSITION MLO PANELBOARD.
44. PROVIDE 60A, 240V, 3P, 4W, DISCONNECT SWITCH FUSED AT 45A.
45. ANCHOR BUILDING FIRE ALARM CONTROL PANEL PROVIDED BY FIRE ALARM VENDOR TO BE PROVIDED WITH EMERGENCY POWER FROM THE LANDLORD GENERATOR. REFER TO DRAWING E-306 FOR LOCATION.
46. GENERATOR FEEDER AND CONTROL WIRING IS ROUTED THROUGH AREA WITH AN APPROVED AUTOMATIC FIRE SUPPRESSION SYSTEM (SPRINKLERS) TO PROVIDE FULL PROTECTION AND SATISFY CONDITIONS SET FORTH IN NEC 700.10(D)(1).
47. NOT USED
48. PROVIDE 60A, 240V, 3P, 4W, DISCONNECT SWITCH FUSED AT 35A
49. PROVIDE 100A, 208/120V, 3P, 4W, 24-POSITION, PANELBOARD WITH 35A MCB.
50. PROVIDE (5)#10 WIRE IN 1" RIGID CONDUIT TO EMERGENCY GENERATOR.
51. PROVIDE A 100A BUS, 40A MCB, 208/120V, 3-PHASE, 4-WIRE, 18-POSTION PANELBOARD.
52. PROVIDE 600V, 100AS, 3-P UNFUSED DISCONNECT SWITCH TO BE LOCKABLE IN THE OPEN POSITION.
53. PROVIDE 225A, 208/120V, 3P, 4W, 42-POSITION, PANELBOARD WITH 150A MCB.
54. PROVIDE (3)#4 THHN CU + (1) #8 THHN CU GND IN A 1".
55. PROVIDE (4)#1/0 THHN CU + (1) #6 THHN CU GND IN A 2" C.
56. PROVIDE (4)#500MCM THHN CU + (1) #3 THHN CU GND IN A 3 1/2" C.
57. PROVIDE 60A, 600V, 3P, 4W, DISCONNECT SWITCH FUSED AT 60A.
58. PROVIDE (3)#6 THHN CU + (1) #10 THHN CU GND IN A 1" C.
59. PROVIDE (4)#8 THHN CU + (1) #10 THHN CU GND IN A 3/4" C.
60. PROVIDE (4)#4 THHN CU + (1) #8 THHN CU GND IN A 1-1/4" C.

PLAN NOTES:

1. WHERE SYSTEMS OF DIFFERENT NOMINAL VOLTAGES ARE PRESENT, PROVIDE PERMANENT IDENTIFICATION FOR CONDUCTORS OF EACH SYSTEM AND POST THE MEANS OF IDENTIFICATION AT EACH PANEL ALONG WITH A DESIGNATION OF THE SERVICE VOLTAGE AS PER NEC 200.6 (D) AND NEC 210.5 (C).
2. SERVICE EQUIPMENT MUST BE MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THIS MARKING MUST INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED.

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
535 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL SINGLE-LINE DIAGRAM

Scale: AS NOTED

E-500

PANEL: 'MECH-A'

VOLTS: 480/277V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 400A | LUGS: - | MAIN: 400A

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	RTU-1	175	3	34791	34791	34791	175	3	RTU-2	2
3	RTU-6	80	3	13296	13296	13296	30	3	SPARE	4
5	SPARE	30	3				30	3	SPARE	6
7	SPARE	30	3	1416	1416	1416	200	3	PANEL 'MHV-A'	8
				84,294	84,294	84,294				

TOTAL CONNECTED LOAD: 252,882 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 252,882 VA
TOTAL DEMAND LOAD: 252,882 VA
AMPS: 305 AMPS

PANEL: 'MECH-B'

VOLTS: 480/277V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 400A | LUGS: - | MAIN: 400A

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	RTU-3	150	3	29398	34791	29398	175	3	RTU-4	2
3	RTU-5	80	3	13296	13296	13296	80	3	SPARE	4
5	SPARE	30	3				30	3	SPARE	6
7	SPARE	30	3	9261	6345	7098	50	3	PANEL 'MLV-A' VIA 30KVA X-FMR	8
				86,743	83,827	84,294				

TOTAL CONNECTED LOAD: 255,150 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 255,150 VA
TOTAL DEMAND LOAD: 255,150 VA
AMPS: 307 AMPS

PANEL: 'MDP'

VOLTS: 480/277V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 400A | LUGS: - | MAIN: 400A

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	PANEL 'SGN-A' VIA 30KVA X-FMR	50	3	2700	27971	2640	70	3	PANELS 'UPS-A'/UPS-B' AND 'PLV-A'/PLV-B' VIA 45KVA X-FMR	2
3	PANELS 'LTG-A', 'LTG-B' & 'LTG-C' VIA 112.5KVA X-FMR	175	3	12570	1333	9464	15	3	EDH-1-1	4
5	ACCU-1-1	15	3	2210	1000	2210	15	3	EDH-2-1	6
7	AIR DOOR 480V CIRCUIT - AD-1-1	50	3	9333	9333	9333	50	3	AIR DOOR 480V CIRCUIT - AD-1-2	8
9	SPARE		3					3	SPARE	10
11	SPARE		3					3	SPARE	12
13	SPARE		3					3	SPARE	14
				66,450	59,113	59,033				

TOTAL CONNECTED LOAD: 184,596 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 10,000 VA
RECEPTACLE OVER 10 KVA @ 50%: 31,976 VA
LIGHTING @ 125%: 43,723 VA
WASHER/DRYER @ 100%: 5,400 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 75,627 VA
TOTAL DEMAND LOAD: 166,726 VA
AMPS: 201 AMPS

PANEL: 'MHV-A'

VOLTS: 480/277V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 225A | LUGS: MLO | MAIN: -

FED BY: 200AF/200AT C.B. IN PANEL 'MECH' IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	ELEVATOR SUMP PUMP	15	3	582	582	582	20	1	SPARE	2
3										4
5										6
7	VAV-2-3	15	3	834	834	834				8
9										10
11										12
13	SPARE	20	1							14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				1,416	1,416	1,416				

TOTAL CONNECTED LOAD: 4,248 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 4,280 VA
TOTAL DEMAND LOAD: 4,280 VA
AMPS: 5 AMPS

PANEL: 'MLV-A'

VOLTS: 208/120V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 100A | LUGS: - | MAIN: 100A

FED BY: 50A C.B. IN PANEL 'MECH' VIA 30KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	UH-1	15	1	1250	1250	1250	15	1	UH-1	2
3										4
5										6
7	AC-1-1, AC-1-2	15	2	749	749	749	15	2	AC-2-221-1, 2-221-2, 2-332, 2-233, 2-2-344	8
9				198	198	198				10
11	(2)TX-A & (2)TX-B	20	1			792	20	1	OAF-1-1	12
13	WAV-2-1,2, 4,5,6	500	3	2299	2299	2298	25	2	ACCU-2-2	14
15	(6)FSD			600	600					16
17	(6)FSD					600	45	2	ACCU-2-3	18
19	SPARE			3016		3016				20
21							20	1	SPARE	22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				9,261	6,345	7,098				

TOTAL CONNECTED LOAD: 22,704 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 21,704 VA
TOTAL DEMAND LOAD: 21,704 VA
AMPS: 61 AMPS

PANEL: 'PLV-A'

VOLTS: 208/120V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 100A | LUGS: - | MAIN: 100A

FED BY: 150A C.B. IN PANEL 'MDP' VIA 45KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	REC - P&C & CASH OFFICE CONVENIENCE	20	1	720	900	1200	20	1	REC - HOT DESKING	2
3	REC - P&C ROOM				1000				REC - CAFE GFCI HOT WATER	4
5	REC - P&C ROOM PRINTER					600			REC - CAFE GFCI MICROWAVE	6
7	REC - CASH OFFICE			1200	1400	1200			REC - CAFE GFCI DISHWASHER	8
9	REC - PUBLIC RESTROOM CONVENIENCE GFCI			360		1000			CAFE HAND DRYER	10
11	MALE PUBLIC RESTROOM HAND DRYER				1000				REC - REFRIGERATOR	12
13	MALE PUBLIC RESTROOM HAND DRYER			1000	1000	720			REC - CAFE VENDING MACHINE	14
15	MALE PUBLIC RESTROOM AUTO FAUCETS			360		1000			REC - CAFE VENDING MACHINE	16
17	FEMALE PUBLIC RESTROOM AUTO FAUCETS				360				REC - CAFE VENDING MACHINE	18
19	FEMALE PUBLIC RESTROOM HAND DRYER			1000		1000			REC - HALLWAY 03 & CAFE CONVENIENCE	20
21	FEMALE PUBLIC RESTROOM HAND DRYER			900	1000				REC - VM/EQ ROOM CONVENIENCE	22
23	REC - PRIVATE RESTROOM CONVENIENCE GFCI				360	600			REC - VM/EQ ROOM CONVENIENCE	24
25	MALE PRIVATE RESTROOM HAND DRYER			1000	180				REC - CLEANER'S COMPOUND GFCI	26
27	MALE PRIVATE RESTROOM HAND DRYER				1000				SPARE	28
29	MALE PRIVATE RESTROOM AUTO FAUCETS					360			REC - FIRST AID ROOM CONVENIENCE	30
31	FEMALE PRIVATE RESTROOM AUTO FAUCETS			360	600				REC - FIRST AID ROOM	32
33	FEMALE PRIVATE RESTROOM HAND DRYER			1000		180			FIRST AID ROOM HAND AUTO FAUCET	34
35	FEMALE PRIVATE RESTROOM HAND DRYER					1000			FIRST AID ROOM HAND DRYER	36
37	SPARE								SPARE	38
39										40
41										42
				10,260	8,660	8,560				

TOTAL CONNECTED LOAD: 27,480 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 10000 VA
RECEPTACLE OVER 10 KVA @ 50%: 8,740 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 18,740 VA
AMPS: 52 AMPS

PANEL: 'PLV-B'

VOLTS: 208/120V | MOUNTING: SURFACE | LOCATION: ELEC. SWITCH RM - 221 (2ND FL) | BUS: 100A | LUGS: - | MAIN: 100A

FED BY: 150A C.B. IN PANEL 'MDP' VIA 45KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	REC - CCTV ROOM	20	1	720	1140		20	1	REC - MANAGER'S AREA	2
3	REC - CCTV ROOM				780	1440			REC - MANAGER'S AREA	4
5	SPARE						20	1	REC - MANAGER'S AREA	6
7	REC - STOCK ROOM CONVENIENCE	1080		900	720				REC - MANAGER'S AREA	8
9	REC - STOCK ROOM CONVENIENCE					720			REC - MEETING ROOM CONVENIENCE	10
11	REC - STOCK ROOM CONVENIENCE				1440				REC - MEETING ROOM CONVENIENCE	12
13	REC - ELEC SWITCH ROOM CONVENIENCE			900		1080			REC - PVM	14
15	REC - ELEC SWITCH ROOM CONVENIENCE			720	720				REC - PVM	16
17	REC - ELEC SWITCH ROOM CONVENIENCE					720			REC - CASHWRAP CALL FORWARD SYSTEM	18
19	SPARE			360			360			20
21	REC - SALES FLOOR CONVENIENCE				1080					22
23	REC - SALES FLOOR CONVENIENCE					1080				24
25	REC - SALES FLOOR CONVENIENCE	720		240	360				SELF SERVER CASHWRAP EXIT DOOR	26
27	FITTING ROOM FLOOR BOX				1080				REC - GOODS HANDLING	28
29	RECEP. - WASHER/DRYER COMBO - CLEANER'S COMP.	30				2700			SPARE	30
31		2		2700						32
33	SPARE									34
35										36
37				1931			40		PANEL 'ELEV'	38
39					1831					40
41						180	3			42
				11,111	9,811	9,360				

TOTAL CONNECTED LOAD: 30,282 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 10,000 VA
RECEPTACLE OVER 10 KVA @ 50%: 5,560 VA
LIGHTING @ 125%: 750 VA
WASHER/DRYER @ 100%: 5,400 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 3,162 VA
TOTAL DEMAND LOAD: 24,872 VA
AMPS: 69 AMPS

PANEL: 'ELEV'

VOLTS: 208/120V | MOUNTING: SURFACE | LOCATION: ELEVATOR MACHINE ROOM (2ND FL) | BUS: 100A | LUGS: - | MAIN: 40A

FED BY: #A C.B. IN PANEL 'PLV-B' IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	ELEVATOR LIGHTING CAB	20	2	250	1581		20	1	ACCU-EMR	2
3				1581		250				4
5	CONV. RECEPTACLE - EMR	20	1		1581		20	1	SPARE	6
7	LIGHTING - EMR			180		180				8
9	SPARE									10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
				1,931	1,831	180				

TOTAL CONNECTED LOAD: 3,942 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 180 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 750 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 3,162 VA
TOTAL DEMAND LOAD: 4,092 VA
AMPS: 12 AMPS

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
330 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL PANEL SCHEDULES SHEET NO. 1

Scale: AS NOTED

E-600

PANEL: 'LTG-A'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 225A | LUGS: - | MAIN: 150A

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: 175A C.B. IN PANEL 'MDP' VIA 112.5KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

PRIMARK LIGHTING CONTROL ZONE

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR NO.
A	1 FITTING ROOM	20	1	1180			20	1	MAIN FLOOR	2 H
				1240						
A	3 FITTING ROOM				500				MAIN FLOOR	4 I
						920				
B	5 CASHWRAP AREA					540			MAIN FLOOR	6 H
B	7 CASHWRAP AREA			800					MAIN FLOOR	8 I
				1220						
C	9 PRIMARY ENTRANCE				600				SPARE	10
D	11 SECONDARY ENTRANCE					740				12
E	13 DISPLAY LIGHTS			600						14
F	15 OCTAGON				500					16
G	17 PERIMETER NE					1200				18
G	19 PERIMETER W			1200						20
G	21 PERIMETER SE				1260					22
H	23 MAIN FLOOR					1080				24
I	25 MAIN FLOOR			960						26
H	27 MAIN FLOOR				1160					28
I	29 MAIN FLOOR					1120				30
H	31 MAIN FLOOR			1120						32
I	33 MAIN FLOOR				1140					34
H	35 MAIN FLOOR					1200				36
I	37 MAIN FLOOR			1060						38
H	39 MAIN FLOOR				960					40
I	41 MAIN FLOOR					1020				42
				9,400	7,060	7,880				

TOTAL CONNECTED LOAD: 16,460 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 20,575 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 20,575 VA
AMPS: 57 AMPS

PANEL: 'LTG-B'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 225A | LUGS: - | MAIN: 150A

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: 175A C.B. IN PANEL 'MDP' VIA 112.5KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

PRIMARK LIGHTING CONTROL ZONE

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR NO.
	1 SPARE	20	1				20	1	EXIT SIGNS	2
				180						
	3				864				EMERGENCY RETAIL LIGHTS 1	4
	5					864			EMERGENCY RETAIL LIGHTS 2	6
	7			1300					STOCK AREA	8 J
	9				660				RESTROOMS	10 K
	11					600			ELEC/TELECOM ROOMS	12 L
	13			840					CAFE LIGHTING	14 M
	15				510				BOH OFFICES	16 N
	17					960			CORRIDORS	18 L
	19			840					OFFICES	20 N
	21				390				GOODS HANDLING	22 O
	23					100			IT CLOSET & ELEC CLOSET	24 L
	25								SPARE	26
	27									28
	29									30
	31									32
	33									34
	35									36
	37									38
	39									40
	41									42
				3,170	2,424	2,524				

TOTAL CONNECTED LOAD: 8,118 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 10,148 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 10,148 VA
AMPS: 28 AMPS

PANEL: 'SGN-A'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 100A | LUGS: - | MAIN: 100A

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: 50A C.B. IN PANEL 'MDP' VIA 30KV X-FMR IN ELEC. SWITCH RM - 221 (2ND FL)

PRIMARK LIGHTING CONTROL ZONE

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
P	1 REC - COLUMN SIGNAGE/LIGHTBOX	20	1	240			20	1	SALES FLOOR ILLUMINATED SIGNAGE	2 P
P	3				240					4 P
P	5					240				6 P
P	7			240						8 P
P	9				240					10 P
P	11					240				12 P
P	13			240						14 P
P	15				180					16 P
P	17					120				18 P
P	19			180					CASHWRAP ILLUMINATED SIGNAGE	20 P
P	21 SALES FLOOR ILLUMINATED SIGNAGE				240					22 P
P	23					240				24 P
P	25			240						26 P
P	27				180					28 P
P	29					240			SPARE	30
P	31			240						32
P	33				240					34
P	35					240				36
P	37			240			50		SUBPANEL 'SGN-B'	38
P	39				240					40
P	41					240		3		42
				2,700	2,640	2,460				

TOTAL CONNECTED LOAD: 7,800 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 9,750 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 9,750 VA
AMPS: 27 AMPS

PANEL: 'SGN-B'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 60A | LUGS: MLO | MAIN: -

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: 50A C.B. IN PANEL 'SGN-A' IN ELEC. SWITCH RM - 221 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
	1 SPARE	20	1				20	1	SPARE	2
	3									4
	5									6
	7									8
	9									10
	11									12
	13									14
	15									16
	17									18
	19									20
	21									22
	23									24
				#	#	#				

TOTAL CONNECTED LOAD: # VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 0 VA
AMPS: 0 AMPS

PANEL: 'UPS-A'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 100A | LUGS: - | MAIN: 100A

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: PANEL 'MPD' 150A CB VIA 40KVA UPS

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	CASH OFFICE - INTRUDER ALARM PANEL	20	1	360			20	1	SPARE	2
3	CASH OFFICE - VIDEO ENTRY SYSTEM				360					4
5	CASH OFFICE - MANTRAP CONTROLLER					720				6
7	CASH OFFICE - MANTRAP MAG-LOCKS			720						8
9	REC - CASH OFFICE MONITORS				600					10
11	REC - COMMS ROOM - IT RACK					600				12
13	REC - COMMS ROOM - IT RACK			600						14
15	REC - COMMS ROOM - IT RACK				600					16
17	REC - CCTV ROOM					600				18
19	REC - CCTV ROOM			600						20
21	REC - CCTV ROOM				600					22
23	REC - CCTV ROOM					600				24
25	REC - CCTV ROOM - A/V RACK			720						26
27	SPARE									28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				3,000	2,160	2,520				

TOTAL CONNECTED LOAD: 7,680 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 7,680 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 7,680 VA
AMPS: 22 AMPS

PANEL: 'UPS-B'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 100A | LUGS: - | MAIN: 100A

LOCATION: ELEC. SWITCH RM - 221 (2ND FL)

FED BY: PANEL 'MPD' 150A CB VIA 40KVA UPS

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	REC - IT RACK	20	1	720			20	1	REC- CASHWRAP - EMPLOYEE TILL	2
				360						
3	REC - IT RACK				720				REC- CASHWRAP - EMPLOYEE TILL	4
					360					
5	SPARE					360			REC- CASHWRAP - EMPLOYEE TILL	6
7	REC - CASHWRAP - SELF CHECKOUT			360					REC- CASHWRAP - EMPLOYEE TILL	8
				360						
9					360				REC- CASHWRAP - EMPLOYEE TILL	10
					360					
11						360			SPARE	12
13				360						14
15					360					16
17						360				18
19				360						20
21					360					22
23						360				24
25				360						26
27					360					28
29						360				30
31				360						32
33					360					34
35						360				36
37				360						38
39					360					40
41						360				42
				3,600	3,600	2,520				

TOTAL CONNECTED LOAD: 9,720 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 9,720 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA
EQUIPMENT @ 100%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 0 VA
TOTAL DEMAND LOAD: 9,720 VA
AMPS: 27 AMPS

PANEL: 'PLV-C'

VOLTS: 208/120V | MOUNTING: SURFACE | BUS: 225A | LUGS: - | MAIN: 150A

LOCATION: ELEC. CL. - 203 (2ND FL)

FED BY: 70A C.B. IN PANEL 'HV' VIA 45KV X-FMR IN ELEC. CL. - 203 (2ND FL)

CIR No.	DESCRIPTION	C.B. AMP	C.B. POLE	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	C.B. AMP	C.B. POLE	DESCRIPTION	CIR No.
1	CONVENIENCE RECEPTACLES - ROOF	20	1	900			20	1	SPARE	2
3	AIR DOOR 120V CIRCUIT - AD-1-1	15			1020					4
5	AIR DOOR 120V CIRCUIT - AD-1-2					1020				6
7	AC-2-203, AC-2-204	15		208						8
9			2		208					10
11	ACCU-2-1	25				2298				12
13			2	2298						14
15	SPARE	20	1							16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42
				3,406	1,228	3,318				

TOTAL CONNECTED LOAD: 7,952 VA

DEMAND:
RECEPTACLE TO 10 KVA @ 100%: 0 VA
RECEPTACLE OVER 10 KVA @ 50%: 0 VA
LIGHTING @ 125%: 0 VA

LARGEST NONCOINCIDENT MECHANICAL @ 100%: 7,952 VA
TOTAL DEMAND LOAD: 7,952 VA
AMPS: 22 AMPS

LIGHTING CONTROL ZONES

CONTROL ZONE	ZONE IDENT.		CONTROL ZONE	ZONE IDENT.
FTING ROOM	A		STOCK AREA	J
CASHWRAP	B		RESTROOMS	K
PRIMARY ENTRANCE	C		CORRIDOR & UTILITY ROOMS	L
SECONDARY ENTRANCE	D		CAFE LIGHTING	M
DISPLAY LIGHTS	E		OFFICES	N
OCTAGON	F		GOODS HANDLING	O
PERIMETER LIGHTS	G		COLUMN & SALES FLOOR SIGNAGE	P
50ft SALES AREA LIGHTING	H			
50ft SALES AREA LIGHTING	I			

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
580 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

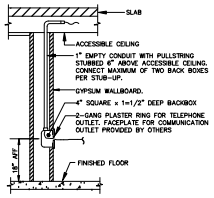
Project Name: Woodfield Mall

Project Number: 19.207.00

Description: ELECTRICAL PANEL SCHEDULES SHEET NO. 2

Scale: AS NOTED

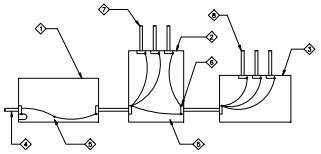
E-601



CONDUIT STUB-UP WALL TELECOM OUTLET FOR ACCESSIBLE CEILING DETAIL

DETAIL 1

SCALE: NONE



NOTES:

1. SERVICE ENTRANCE EQUIPMENT ENCLOSURE
2. DISTRIBUTION PANELBOARD
3. LIGHTING/APPLIANCE PANELBOARD
4. SYSTEM GROUNDING ELECTRODE CONDUCTOR
5. GROUND LUG (TYP)
6. GROUNDING BUSHING (TYP)
7. FEEDER CONDUIT (TYP)
8. BRANCH CIRCUIT CONDUIT (TYP)

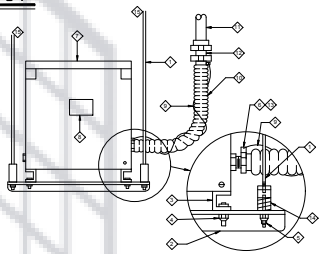
RACEWAY EQUIPMENT GROUNDING SYSTEM

DETAIL 2

SCALE: NONE

REFERENCE NOTES:

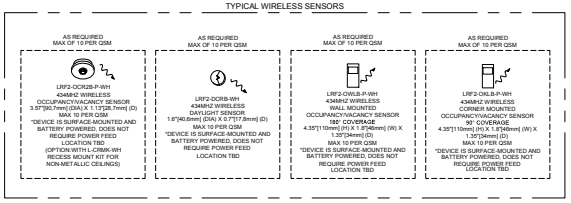
1. ⅜" DIAMETER THREADED STEEL ROD SUPPORT FROM STRUCTURE ABOVE.
2. ANGLE IRON SUPPORT 3" x 3", 2 REQUIRED, LENGTH TO SUIT.
3. TRANSFORMER BASE CHANNEL
4. ½" DIAMETER NUT, BOLT & LOCKWASHER, 4 REQUIRED.
5. ⅜" DIAMETER NUT, LOCKNUT & LOCKWASHER, 4 REQUIRED.
6. SECONDARY CONNECTION DETAIL, PRIMARY IS SIMILAR.
7. TRANSFORMER - MOUNT BOTTOM SUPPORTS 6.5' A.F.F.
8. NAMEPLATE - CONNECTION DIAGRAM TO FACE ROOM ENTRANCE
9. EXTERNAL COPPER BONDING WIRE
10. LIQUID TIGHT FLEXIBLE METAL CONDUIT 1'-6" MINIMUM. RIGID CONDUIT
11. FEEDER CONDUIT
12. COMBINATION COUPLING
13. GROUND CONNECTOR
14. VIBRATION ISOLATOR, 4 REQUIRED
15. PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO CONNECT TO STRUCTURE.

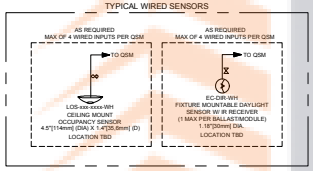


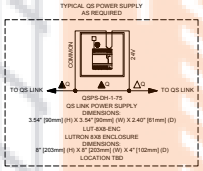
TRANSFORMER SUSPENSION DETAIL

DETAIL 3

SCALE: NONE







LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	DESCRIPTION	SPECIFICATION	WATTS
A1	SOLAIS	2X2 LED FLAT PANEL	FP22-40K-3800-WH	30W
A1-EM	·	SAME AS TYPE A1, WITH EM BATTERY PACK	FP22-40K-3800-WH-EM	30W
D12	SOLAIS	RECESSED MULTIPLE	XFR12-XM24-2C-25C-30K-1600-WH-WH-010	30W
G	IGUZZINI	RECESSED ADJUSTABLE LED LAMP	TBD	20W
M / M2	ORION	SUSPENSION KITS (2) / FIXTURE	HW-FC009	25W
M2 / H-EM	ORION	SAME AS M / M2, WITH EM BATTERY PACK	MPHL1-F-B1-UNV-FDXX-FRL-840-BXX-SP	25W
PL3	SOLAIS	SMALL TRACK HEAD, 25 DEGREES	Xd24/25C/30K/1600/WH/J	20W
PL4	SOLAIS	SMALL TRACK HEAD, 15 DEGREES	Xd24/15C/30K/1600/WH/J	20W
PL6	SOLAIS	TRACK HEAD, 40 DEGREES	Xd24/40C/30K/2300/WH/J	20W
PL14	SOLAIS	4" RECESSED	XR4nc/D/Xm24/40c/30K/1600/WH/WH	20W
PL17	SOLAIS	48" LINEAR TRACK MOUNT	TL48/F/FL/30K/WH/J/CST	20W
PL25	SISTEMA LUX	STUDIO PENDANT LED W/ TRACK ADAPTER	1770JP PBO-830-50-120-01	20W
ST1-4'	SOLAIS	TRACK 4', 2 CIRCUIT / 2 NEUTRAL, WHITE	J4-WH	--
ST1-8'	SOLAIS	TRACK 8', 2 CIRCUIT / 2 NEUTRAL, WHITE	J8-WH	--
ST1-CONN	SOLAIS	TRACK COUPLER, WHITE	J133-WH	--
ST1-DEAD END	SOLAIS	TRACK DEAD END, WHITE	J30-WH	--
ST1-HANGER	SOLAIS	SUSPENSION HANGERS, 1 EVERY 4'OC	A CL-20, 20' A/C CABLE	--
ST1-HANGER	SOLAIS	CABLE GRIPPER, HW-0068	J133-WH	--
ST1-HANGER	SOLAIS	TACK MOUNTING CLIP #SKB12	GSKB12-WH	--
ST1-L CONN	SOLAIS	TRACK L CONNECTOR, WHITE	J23-WH	--
ST1-LE	SOLAIS	TRACK LIVE END, WHITE	J123-WH	--
EXIT-D	EXITRONIX	DOUBLE FACE UNIVERSAL EXIT SIGN	903E-U-WB-RWH	2W
EXIT-S	EXITRONIX	SIGNLE FACE UNIVERSAL EXIT SIGN	902E-U-WB-RC-WH	2W

PRIMARK
5 Woodfield Mall
Schaumburg, IL 60173

Gensler
11 East Madison Street
Suite 300
Chicago, IL 60602
United States
Tel 312.456.0123
Fax 312.456.0124

FISKAA
FISKAA ENGINEERING
555 EIGHTH AVENUE NEW YORK, NY 10018
T 212 736 9600 F 212 736 9020 WWW.FISKAA.COM

Date	Description
09.26.22	ISSUE FOR PERMIT

Seal / Signature

Project Name
Woodfield Mall

Project Number
19.207.00

Description
ELECTRICAL DETAILS

Scale
AS NOTED

E-700