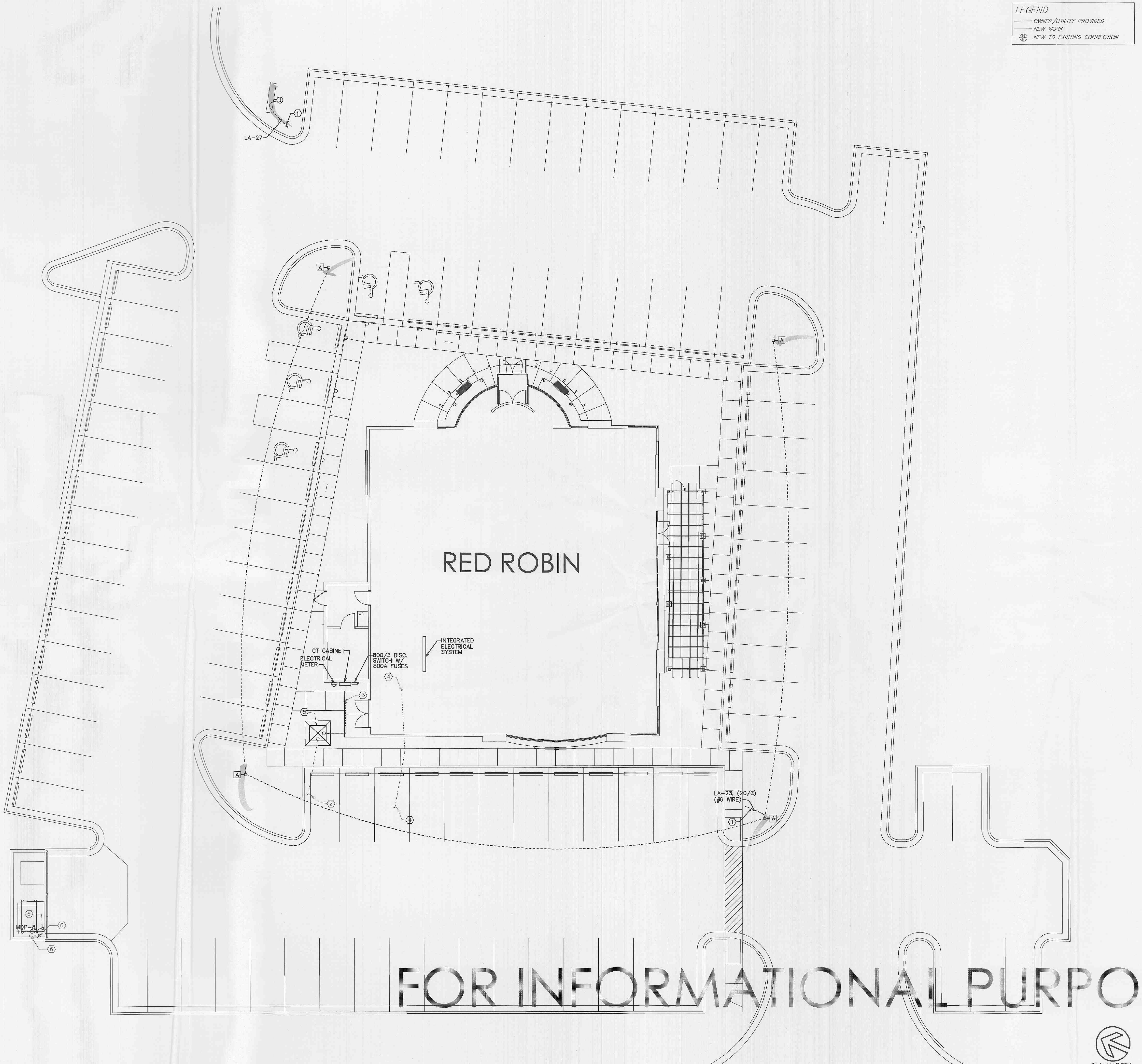

1 ELECTRICAL SITE PLAN

SCALE: 1"=10'-0"

FOR INFORMATIONAL PURPOSES ONLY

(1) ROUTE CIRCUITS THROUGH EXTERIOR LIGHTING CONTACTOR. SEE DETAIL AND SPECIFICATIONS ON SHEET 'E2.2'.

(2) PROVIDE ONE 4" CONDUIT FROM TRANSFORMER LOCATION TO POINT OF ELECTRICAL UTILITY INTERCONNECTION AT THE PROPERTY LINE. VERIFY EXACT REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY.

(3) PROVIDE TWO SETS OF (4–#500 KCMIL IN 4" CONDUIT) FROM TRANSFORMER LOCATION TO CT CABINET. VERIFY EXACT REQUIREMENTS WITH LOCAL ELECTRICAL UTILITY. SEE RISER DIAGRAM ON SHEET 'E2.3' FOR CONTINUATION. INTERCONNECT METER & CT CABINET PER LOCAL ELECTRICAL UTILITY REQUIREMENTS.

(4) PROVIDE A 2" PVC CONDUIT FROM POINT OF TELEPHONE UTILITY INTERCONNECTION AT THE PROPERTY LINE TO THE LOCATION OF THE PHONE BOARD. SEE SHEET 'E1.3' FOR EXACT LOCATION OF THE PHONE BOARD. GENERAL CONTRACTOR SHALL VERIFY EXACT SIZE OF CONDUIT WITH TELEPHONE COMPANY PRIOR TO INSTALLATION.

(5) ELECTRICAL UTILITY TRANSFORMER: LOCATION INDICATED FOR SITES WITH GROUND MOUNTED TRANSFORMER. GENERAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER THE ELECTRICAL UTILITY COMPANY REQUIREMENTS.

(6) TRASH COMPACTOR: PROVIDE A 30A, 3–POLE, 240V, HEAVY DUTY, NON–FUSIBLE, UL/NEMA 3R DISCONNECT SWITCH. PROVIDE 3–#10 & 1–#10 GROUND IN RIGID CONDUIT TO WALL–MOUNTED J–BOX. ROUTE LIQUID TIGHT FLEXIBLE CONDUIT FROM WALL–MOUNTED J–BOX TO J–BOX AT EQUIPMENT. ROUTE CONDUIT UP TO 7'–6" AND ATTACH TO WALL OVER TO THE POINT OF CONNECTION. (ROUTE CONDUIT OUT OF HUMAN CONTACT WHERE POSSIBLE) FIELD VERIFY EXACT ELECTRICAL REQUIREMENTS.

2 ELECTRICAL PLAN NOTES

SCALE: NONE

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL APPURTENANCES NECESSARY FOR A COMPLETE AND CODE COMPLIANT INSTALLATION.
2. ALL FIXTURES, POLES, ARMS, BASES, ETC. SHALL BE PROVIDED WITH FACTORY APPLIED POWDER PAINT FINISH. THE ELECTRICAL CONTRACTOR SHALL PAINT ANY EXPOSED EQUIPMENT TO MATCH.
3. THE CONDUCTOR SPLICE, WHICH CONNECTS THE UTILITY LINE SIDE CONDUCTORS TO THE RED ROBIN LOAD SIDE CONDUCTORS, SHALL BE MADE WITH BOLTED CONNECTIONS FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE LOCAL ELECTRICAL UTILITY.
4. ELECTRICAL CONTRACTOR SHALL INSTALL THE SECONDARY WIRING BETWEEN THE CT AND THE METER SOCKET UNLESS OTHERWISE DIRECTED BY THE LOCAL ELECTRICAL UTILITY.
5. ALL CONDUIT SHALL BE ROUTED A MINIMUM OF 36" BELOW FINISHED GRADE.
6. EXACT METHOD OF ROUTING OUTDOOR LIGHTING WIRING SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
7. UNLESS OTHERWISE NOTED, ALL EXTERIOR LIGHTING WIRING SHALL BE #10AWG COPPER AND SHALL BE ROUTED IN SCHEDULE 40 PVC. MINIMUM CONDUIT SIZE IS 3/4".
8. ALL SITE LIGHTING CIRCUITS SHALL BE CONTROLLED VIA LIGHTING CONTACTORS. SEE "TIME CLOCK AND LIGHTING CONTACTORS" DETAIL ON SHEET 'E2.2' FOR ADDITIONAL INFORMATION ON CONTACTORS.
9. CONTACT LOCAL ELECTRICAL UTILITY TO COORDINATE FINAL ELECTRICAL UTILITY CONNECTIONS, LOCATIONS, INSTALLATION, ETC. COORDINATE ELECTRICAL SERVICE REQUIREMENTS INCLUDING ENTRANCE FITTINGS, METER ENCLOSURE, CURRENT TRANSFORMER, PRIMARY CONDUIT AND WIRE, AND SECONDARY CONDUIT AND WIRE. OBTAIN PLAN APPROVAL PRIOR TO STARTING WORK. OWNER SHALL PAY CONNECTION CHARGES.
10. CONTACT LOCAL TELEPHONE UTILITY TO COORDINATE FINAL TELEPHONE UTILITY CONNECTIONS, LOCATIONS, INSTALLATION, ETC. PROVIDE UNDERGROUND PVC CONDUIT FROM UTILITY CONNECTION POINT TO LOCATION OF PHONE BOARD AS INDICATED ON SHEET 'E1.3'. OBTAIN PLAN APPROVAL PRIOR TO STARTING WORK. OWNER SHALL PAY CONNECTION CHARGES.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE THE CURRENT TRANSFORMER ENCLOSURE PER LOCAL ELECTRICAL UTILITY REQUIREMENTS; MOUNT THE CURRENT TRANSFORMERS (CT'S); PROVIDE ALL MECHANICAL CONNECTORS FOR PHASE NEUTRAL AND GROUND CONDUCTORS WITHIN THE CURRENT TRANSFORMER ENCLOSURE; AND TERMINATE ALL CONDUCTORS WITHIN THE CURRENT TRANSFORMER ENCLOSURE. THE CT CABINET SHALL BE OF SUBSTANTIAL STRENGTH WITH CORROSION PROTECTION, SUCH AS PAINTED GALVANIZED STEEL, UL/NEMA 3R CONSTRUCTION. IT SHALL HAVE PROVISIONS FOR INSTALLING A PADLOCK AND SEAL. THE INSIDE BACK OF THE CABINET SHALL BE ENTIRELY COVERED BY 3/4" TREATED PLYWOOD FOR MOUNTING THE CURRENT TRANSFORMERS OR SUITABLE MOUNTING BRACKETS MAY BE PROVIDED. A GROUNDING LUG SHALL BE PROVIDED TO GROUND THE CABINET.
12. THE CURRENT TRANSFORMER ENCLOSURE SHALL CONFORM TO ALL NATIONAL ELECTRICAL CODE REQUIREMENTS, BE LOCKABLE, WEATHER TIGHT, AND HAVE THE FOLLOWING MINIMUM DIMENSIONS–48"X48"X12" FOR SERVICES 800 AMPS TO 1600 AMPS. VERIFY EXACT CONSTRUCTION REQUIREMENTS WITH THE LOCAL ELECTRICAL UTILITY.
13. THE CT CABINET AND METER SOCKET SHALL BE GROUNDED, BONDING TO THE SYSTEM NEUTRAL IS ACCEPTING IF THE SYSTEM NEUTRAL IS GROUNDED. IF GROUNDING IS BY DRIVEN ROD, USE #6 CU MINIMUM. CT, METER CABINET AND ALL GROUNDING OF SUCH EQUIPMENT SHALL BE AS DIRECTED BY THE LOCAL ELECTRICAL UTILITY.
14. THE CURRENT TRANSFORMERS AND THE ASSOCIATED METER BASE SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. THE CURRENT TRANSFORMER ENCLOSURE AND THE METER BASE ARE INTENDED TO BE INSTALLED OUTSIDE ON THE BUILDING. THE LOCATION SHALL BE APPROVED BY THE LOCAL ELECTRICAL UTILITY. CURRENT TRANSFORMERS SHALL BE MOUNTED WITH THE WHITE DOT POINTING TO THE SOURCE SIDE OF THE SERVICE. ALL MECHANICAL CONNECTORS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND SHALL ALLOW THE CURRENT TRANSFORMERS TO BE REPLACED WITHOUT DAMAGE TO THE CONNECTOR OR CONDUCTOR.
15. ELECTRICAL CONTRACTOR SHALL MOUNT THE METER SOCKET OR CABINET NEXT TO THE CT CABINET AND INSTALL 1–1/4" CONDUIT BETWEEN THE TWO. VERIFY EXACT INSTALLATION REQUIREMENTS WITH THE LOCAL ELECTRICAL UTILITY.
16. SEE SHEET 'E2.1' FOR FURTHER SITE LIGHTING CRITERIA.
17. POLE MOUNTED SITE LIGHTS ARE TO BE SUPPLIED BY THE GENERAL CONTRACTOR
18. CONTRACTOR SHALL PROVIDE A 3'–0" POLE BASE FOR SITE LIGHTS THAT ARE IN THE AREA OF CARS. CONTRACTOR SHALL PROVIDE A 6" POLE BASE FOR SITE LIGHTS THAT ARE NOT IN THE AREA OF CARS. SEE SHEET 'E2.2' FOR POLE BASE DETAILS.
19. ALL SITE LIGHTING CRITERIA MUST BE VERIFIED WITH THE DEVELOPER OF THE PROJECT.
20. REFER TO SHEET 'E2.1' FOR SITE LIGHTING FIXTURE SCHEDULE.

3 ELECTRICAL GENERAL NOTES

SCALE: NONE

PLANNING AND ZONING FILE # 3A-V-0566

RED ROBIN GOURMET BURGERS
1440 MEXICO LOOP ROAD EAST
O'FALLON, MO

ELECTRICAL SITE PLAN & NOTES
ENGINEERING RE-ISSUE: 10/28/05

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Revisions
- PERMIT ISSUE 07/15/05
- 1 99.11 BULLETIN UPDATES / BID ISSUE: 08/15/05
- 2 REV. PER CITY 8/22/05
- 3 ENGR. RE-ISSUE @ 24X36 09/16/05

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED UNDER MY SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE, THE SAME COMPLY WITH ALL RULES, REGULATIONS AND ORDINANCES OF O'FALLON, MISSOURI RELATING TO STRUCTURES AND BUILDINGS.

ARCHITECT

Drawn By	Checked By
ELF	GRS
Scale	Date
1"=10'-0"	7/15/05

Job No. 05-4393

Sheet No. E3.1