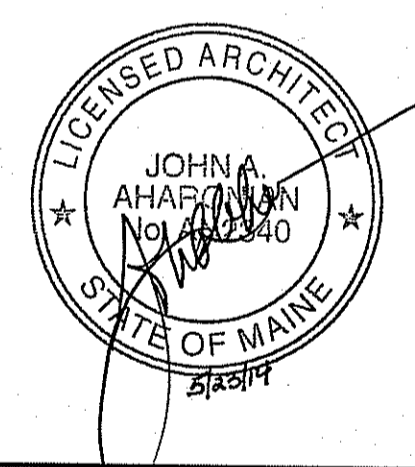


AHARONIAN & ASSOCIATES INC.
ARCHITECTS
MAINE LICENSED ARCHITECT
310 George Washington Highway
Suite 100
Smithfield, Rhode Island
0 2 9 1 7
T 401-232-5010
F 401-232-5080
WWW.ARCH-ENG.COM

DISCLAIMER

OWNERSHIP AND USE OF DOCUMENTS, DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECTS OR PURPOSES OR BY ANY OTHER PARTIES THAN THOSE PROPERLY AUTHORIZED BY CONTRACT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE ARCHITECT.

REVISIONS	NUMBER	REMARKS	DATE
△			



FOR CONSTRUCTION

PROJECT TITLE
DUNKIN' BRANDS
[eatdrinkthink]
PC# NEW
FRESH BREW IMAGE:
CAPPUCCINO BLEND

1412 CONGRESS STREET
PORTLAND, ME
Cumberland County

DATE	PROJ NO
MAY 12, 2014	14016
DRAWN BY	CHECKED BY
JB	MH

DRAWING NUMBER
E0.1

GENERAL ELECTRICAL NOTES

- 1) COMPLETE SYSTEMS:
 - A) PROVIDE LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION TO RECEIVE, INSTALL, ADJUST AND PUT INTO OPERATION COMPLETE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DOCUMENTS.
 - B) PROVIDE PRODUCTS NOT MENTIONED BUT OBVIOUSLY NECESSARY AND INCIDENTAL TO THE COMPLETION OF THIS WORK.
- 2) UTILITIES:
 - A) COORDINATE WITH ALL UTILITY SERVICES.
 - B) NOTIFY UTILITIES OF COMMENCEMENT OF WORK.
 - C) MAKE ALL ARRANGEMENTS FOR TEMPORARY SERVICES.
 - D) POWER CONSUMED SHALL BE PAID FOR BY THE OWNER.
 - E) PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLY WITH ALL UTILITY REGULATIONS AND REQUIREMENTS.
 - F) COORDINATE INTERRUPTING CAPACITY OF ELECTRIC PANELS AND ALL BREAKERS W/ UTILITY CO.
- 3) PERMITS:
 - A) OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK.
 - B) PAY ALL ASSOCIATED FEES FOR PERMITS AND OTHER MUNICIPAL AND GOVERNING REQUIREMENTS.
- 4) EXPERIENCE:

ALL WORK DONE SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS, UNDER THE SUPERVISION AND DIRECTION OF A SUPERINTENDENT HAVING SUCCESSFUL EXPERIENCE INSTALLING AND SUPERVISING EQUIPMENT AND SYSTEMS OF SIMILAR TYPE AND SIZE AS INDICATED BY CONTRACT DOCUMENTS.
- 5) REGULATIONS:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT RULES, REGULATIONS AND INDUSTRY STANDARDS OF THE NATIONAL ELECTRICAL CODE, ILL, IFCIA, NEMA, NFPA, OSHA, NATIONAL ELECTRICAL SAFETY CODE, ADA AND ANY LOCAL CODES, LAWS OR ORDINANCES. IN THE EVENT THAT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
- 6) COSTS AND CONDITIONS:
 - A) EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY.
 - B) SURVEY THE PROJECT AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND SCOPE OF WORK.
 - C) ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED.
 - D) ANY ADDITIONAL COSTS DUE TO FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7) SPECIFICATIONS:
 - A) BECOME FAMILIAR WITH ALL SPECIFICATIONS, DESIGN CRITERIA AND INSTALLATION REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION.
 - B) REFERENCE SPECIFICATIONS FOR DEVICES, MATERIALS AND WORKMANSHIP REQUIREMENTS, ADDITIONAL REQUIREMENTS ARE GIVEN IN THESE NOTES AND THE DRAWINGS.
 - C) THERE SHALL BE NO DEVIATION FROM SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 8) COORDINATION:
 - A) COORDINATE WORK WITH ALL OTHER TRADES. GIVE SPECIAL CONSIDERATION TO COORDINATING INSTALLATION OF LIGHTING, SPRINKLER PIPING AND DUCTWORK.
 - B) COORDINATE WALL OUTLET LOCATIONS WITH MILLWORK.
 - C) COORDINATE WALL SWITCHES WITH DOOR SWINGS.
 - D) VERIFY EXACT LOCATION, COLOR AND FINISH OF OUTLETS AND DEVICES WITH INTERIOR DESIGNER, ARCHITECT OR DESIGNATED TENANT REPRESENTATIVE PRIOR TO INSTALLATION.
- 9) PRODUCTS:
 - A) ALL PRODUCTS SHALL BE NEW, SPECIFICATION GRADE, PRODUCTS OF A SIMILAR NATURE SHALL BE OF THE SAME TYPE AND MANUFACTURER.
 - B) PROVIDE THE STANDARD PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SPECIFIED PRODUCTS, UNLESS OTHERWISE REQUIRED BY DRAWINGS.
 - C) ALL PRODUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NATIONALLY RECOGNIZED AND ACCEPTED STANDARDS AND PROCEDURES.
- 10) COMPATIBILITY:

ALL NEW ELECTRICAL DISTRIBUTION EQUIPMENT SHALL MATCH AND BE COMPATIBLE WITH EXISTING EQUIPMENT, BY MANUFACTURER, TYPE, APPLICATION AND SHORT CIRCUIT RATINGS.
- 11) IDENTIFICATION:
 - A) ALL ELECTRICAL DISTRIBUTION EQUIPMENT, TRANSFORMERS, PANEL BOARDS AND OTHER ENCLOSED EQUIPMENT SHALL BE IDENTIFIED AS INDICATED IN THE CONTRACT DOCUMENTS.
 - B) SAID IDENTIFICATION SHALL CONSIST OF PERMANENTLY ATTACHED ENGRAVED LAMINATED PLASTIC NAMEPLATES.
 - C) EACH BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE SHALL BE IDENTIFIED BY CIRCUIT NUMBER AND SCHEDULED INSIDE PANEL DOOR.
 - D) EACH BRANCH CIRCUIT SPICE OR TERMINATION SHALL BE IDENTIFIED BY PANEL AND CIRCUIT DESIGNATION SHOWN ON THE JUNCTION OR OUTLET BOX, OR UPON INDIVIDUAL WIRES IN CASES WHERE MORE THAN ONE OF EACH PHASE CONDUCTOR OCCUR.
- 12) WIRING:

ALL CONDUCTORS CARRYING GREATER THAN 50 VOLTS SHALL BE MINIMUM #12 AWG. SOLID, CU, SOFT DRAWN OF 98% CONDUCTIVITY, UNLESS NOTED OTHERWISE. LIGHTING: MINIMUM OF #12 THIN GAUGE FOR 20 AMPERE CIRCUITS. ALL EXPOSED WIRING SHALL BE RUN IN WIREHOLD.
- 13) INSULATION:
 - A) ALL WIRE SHALL BE THIN/THIN 600 VOLT INSULATION AND SHALL BE PROVIDED FROM THE PANEL BOARD CIRCUIT BREAKER TO THE EQUIPMENT CONNECTIONS. COORDINATE INSULATION TYPES WITH CONDITIONS, NEC REQUIREMENTS AND CONDUIT FILL REQUIREMENTS.
 - B) ALL WIRING SIZES ARE BASED ON 60 C OR 75 C INSULATION, ACCORDING TO CURRENT RATING, REGARDLESS OF ACTUAL INSULATION USED.
 - C) TYPE "MC" CABLE IS ACCEPTABLE ONLY WITH TYPE THHN INSULATION.

POWER NOTES

- 1) OUTLETS ARE SHOWN FOR POSITIONING PURPOSES ONLY. COORDINATE ALL EQUIPMENT UTILITY INFORMATION SHOWN ON THIS DWG WITH THE DUNKIN' BRANDS EQUIPMENT SCHEDULE AND EQUIPMENT MANUFACTURER'S CUT SHEETS.
- 2) ALL ELECTRIC INFORMATION SHOWN ON THIS DWG IS REQUIRED FOR EQUIPMENT ONLY. ALL CONVENIENCE POWER LOCATIONS SHALL BE COORDINATED WITH THE FRANCHISEE. TYPICAL LOCATIONS FOR ADDITIONAL OUTLETS: FRONT AND BACK LINE COUNTERS, OFFICE, ABOVE CEILING IN SALES AREA AND VESTIBULE, ROOF FOR HOLIDAY LIGHTING; PROVIDE IN ACCORDANCE WITH LOCAL CODES.
- 3) ALL OUTLETS SHOWN SHALL BE MOUNTED @ 18" AF UNLESS NOTED OTHERWISE.
- 4) VERIFY FINAL PLACEMENT OF RACEWAYS, OUTLETS AND DEVICES WITH ARCHITECT'S DWGS AND EQUIP SUPPLIER'S RECOMMENDATIONS PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVER PLATES AND FLANGES AS REQUIRED.
- 5) CONVENIENCE OUTLETS: NEMA TYPE 5-20R, SPECIFICATION GRADE (HUBBELL #5952) DUPLEX RECEPTACLES WITH COVER PLATES TO MATCH EXISTING. VERIFY COLOR WITH ARCHITECT. ACCEPTABLE MANUFACTURERS: HUBBELL, LEVITON, PASS & SEYMOUR.
- 6) ISOLATED GROUND DEVICES (IG) AND GROUND FAULT INTERRUPT (GFI) DEVICES: 20 AMPERS RATED W/ DEDICATED INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE RUN CONTINUOUS AND UNSPLICED BETWEEN DEVICE AND PANEL GROUND BUS.
- 7) COMBINATION POWER DEVICE: COOPER INDUSTRIES ARROWHART COMBINATION USB CHARGER W/ TAMPER RESISTANT RECEPTACLE #TR140, 2 POLE 3 WIRE 15 AMP 125V; 5V DC 700MA; MOUNT @ 38" ABOVE FLOOR.
- 8) PROVIDE EZ CONTROLS 24-HOUR, 7-DAY TIME CLOCK TO CONTROL SIGNS, LIGHTING AND OTHER CYCLIC LOADS IDENTIFIED BY OWNER'S REPRESENTATIVE. PROVIDE CONTRACTORS AS REQUIRED. VERIFY WIRING REQUIREMENTS W/ MANUF. VERIFY LOCATION W/ FRANCHISEE.
- 9) INSTALLATION: PROVIDE DROPS FROM JUNCTION BOXES TO DEVICES AS INDICATED. ADDITIONAL JUNCTION BOXES MAY BE REQUIRED BEYOND THOSE SHOWN.
- 10) EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHERPROOF.
- 11) IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY CONSTRUCTION METHODS AND REQUIREMENTS OF THE OTHER CONSTRUCTION DOCUMENTS AND INTENDED ROUTING OF WIRING TO THE VARIOUS ITEMS OF EQUIPMENT IN THE VARIOUS LOCATIONS IN ORDER TO DETERMINE WIRING METHOD (UNDERGROUND OR OVERHEAD). ALL WIRING SHALL BE CONCEALED IN ALL AREAS. NO WIRING SHALL BE EXPOSED IN ANY PORTIONS OF THE BUILDING. SEE SPECIFICATIONS.
- 12) EC SHALL VERIFY CONSTRUCTION OF ALL EQUIPMENT AND CABINETS AND VERIFY EXACT LOCATIONS AND METHODS OF CONNECTIONS AND PROVIDE ALL NECESSARY ACCESSORIES, EQUIPMENT, DEVICES AND WIRING METHODS IN ORDER TO CONNECT THE EQUIPMENT.
- 13) WHERE WIRING IS REQUIRED TO BE UNDER THE SLAB, SCHEDULE 40 PVC SHALL BE USED WITH THE WIRE SIZES CALLED FOR IN THE NOTES.
- 14) WHERE OVERHEAD THE WIRING METHOD MAY BE TYPE M/C CABLE OR EMT AND WIRE.
- 15) ALL SITE WIRING SHALL BE IN SCHEDULE 40 PVC.
- 16) COORDINATE ALL STUB UPS OF CONDUITS WITH THE GENERAL CONTRACTOR AND VARIOUS VENDORS OF THE EQUIPMENT.
- 17) VERIFY ALL INFORMATION PRIOR TO START OF CONSTRUCTION SO THAT ALL UNDERGROUND WIRING WILL BE ABLE TO BE ROUGH-IN TO COMPLY WITH CONSTRUCTION SCHEDULES.
- 18) ALL RECEPTACLES AND EQUIPMENT CONNECTIONS SHALL BE CONCEALED FROM VISUAL SIGHT BUT SHALL BE ACCESSIBLE IN ORDER TO BE USED AS EQUIPMENT DISCONNECTS. VERIFY EXACT LOCATIONS ON SITE WITH EQUIPMENT BEING INSTALLED AND OTHER DRAWINGS AND DETAILS.
- 19) IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL WIRING REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE INSTALLED AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
- 20) ALL WIRING DEVICES SHALL BE FLUSH MOUNT TYPE, WHERE REQUIRED TO BE SURFACE MOUNTED WITHIN CABINET WORK, PROVIDE OLD WORK OUTLET BOXES WHERE FLUSH MOUNTING IS AVAILABLE PROVIDE FLUSH MOUNT BOXES.
- 21) ALL WIRING DEVICE PLATES FOR EQUIPMENT SHALL BE TYPE 302 (NON MAGNETIC HIGH NICKEL CONTENT) STAINLESS STEEL.
- 22) ALL ELECTRICAL FIELD CONNECTIONS AND RELATED INTERCONNECTIONS TO THE EXHAUST HOOD & FANS SHALL BE PROVIDED AS REQUIRED BY ELECTRICAL CONTRACTOR.
- 23) ALL RECEPTACLES LOCATED IN THE KITCHEN AREAS RATED 125 VOLT, SINGLE-PHASE, 15 AND 20 AMPERS SHALL HAVE GROUND-FULLY CIRCUIT-INTERRUPTER PROTECTION PER NEC, ARTICLE 210.8(B). WHERE A SPECIFIC RECEPTACLE IS NOT AVAILABLE WITH GFCI PROTECTION THEN A GFCI CIRCUIT BREAKER SHALL BE USED ON THE CIRCUIT SERVING THAT RECEPTACLE.

TELEPHONE & DATA RACEWAY NOTES

- 1) NO SECTION OF CONDUIT SHALL BE LONGER THAN 100 FEET BETWEEN FULL POINTS.
- 2) NO SECTION OF CONDUIT SHALL CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR EQUIVALENT, BETWEEN FULL POINTS (eg, OUTLET BOXES, TELECOMMUNICATIONS CLOSETS OR PULL BOXES). IF THERE IS A REVERSE (U-SHAPED) BEND IN THE SECTION, A FULL BOX SHALL BE INSTALLED.
- 3) THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.
- 4) ANY SINGLE CONDUIT RUN EXTENDING FROM A TELECOMMUNICATIONS CLOSET SHALL NOT SERVE MORE THAN THREE OUTLET BOXES.
- 5) CONDUITS PROTRUDING / PENETRATING THROUGH THE FLOOR IN THE TELECOMMUNICATIONS CLOSETS SHALL BE TERMINATED 3-INCHES ABOVE THE FLOOR ADJACENT TO WALLS. PROTRUSIONS / PENETRATIONS SHALL BE LOCATED TO AVOID CREATING A TRIPPING HAZARD WITHIN THE CLOSETS, FIRESTOP ALL PROTRUSIONS / PENETRATIONS THRU FIRE RATED ASSEMBLIES.
- 6) WHERE A TELECOMMUNICATIONS CONDUIT IS TO BE INSTALLED TO A DEVICE EXPOSED TO THE WEATHER, CARE SHALL BE TAKEN TO PREVENT THE INGRESS OF MOISTURE. CARE SHALL ALSO BE TAKEN TO ENSURE THAT MOISTURE WILL NOT COLLECT IN LOW POINTS. FREEZE AND DAMAGE THE CABLE. NONMETALLIC CONDUIT SHALL BE UV RESISTANT AND MARKED ACCORDINGLY.
- 7) CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.
- 8) REFER TO ANSI/TIA/EIA-606 FOR ADMINISTRATION OF THE CONDUIT SYSTEM IDENTIFICATION.
- 9) ALL CONDUITS SHALL BE PROVIDED WITH FULL STRINGS.
- 10) JUNCTION BOXES SHALL BE NO SMALLER THAN 2-INCHES WIDE, 3" HIGH AND 2.5" DEEP. THIS WILL ACCOMMODATE ONE OR TWO 3/4" CONDUITS. WHERE A LARGER CONDUIT IS REQUIRED, THE BOX SHALL BE INCREASED ACCORDINGLY. A MAXIMUM 1-1/4" CONDUIT WILL REQUIRE A 4-1/16" x 4-1/16" x 2-1/2" BOX.
- 11) CONDUIT TYPES SHALL BE ELECTRICAL METALLIC TUBING (EMT) OR RIGID METAL CONDUIT. LOCATIONS SUBJECT TO MOISTURE SHALL BE RIGID PVC. FLEXIBLE CONDUIT SHALL NOT BE USED FOR TELE/DATA RACEWAYS.
- 12) CONDUIT REQUIREMENTS FOR SUPPORT, END PROTECTION AND CONTINUITY SHALL COMPLY WITH APPROPRIATE ELECTRICAL CODES.
- 13) CONDUIT AND BOXES FOR TELE/DATA WIRING SHALL BE DEDICATED TO THOSE SYSTEMS. POWER WIRING SHALL BE KEPT OUT OF CONDUIT AND BOXES DEDICATED TO TELE/DATA WIRING.
- 14) CONDUIT SIZE FOR MAXIMUM NUMBER OF CABLES. SEE TABLE BELOW.

Conduit Trade Size	Maximum number of cables based upon allowable fill									
	Cable Outside Diameter In Inches									
	0.15	0.18	0.22	0.24	0.24	0.31	0.37	0.53	0.62	0.70
1/2"	1	1	0	0	0	0	0	0	0	0
3/4"	6	5	4	3	2	2	1	0	0	0
1"	8	8	7	6	5	3	2	1	0	0
1-1/4"	16	14	12	10	6	4	3	1	0	0
1-1/2"	20	18	16	15	7	6	4	2	1	1
2"	30	26	22	20	14	12	7	4	3	2
2-1/2"	45	40	36	30	17	14	12	6	3	3
3"	70	60	50	40	20	20	17	7	6	6
3-1/2"	-	-	-	-	-	22	12	7	6	6
4"	-	-	-	-	-	30	14	12	7	7

POS - COMMUNICATIONS NOTES

- GENERAL NOTES**
- 1) FINAL ELECTRICAL DRAWINGS SHALL BE PROVIDED TO POS VENDOR THAT IS SELECTED BY FRANCHISEE.
 - 2) PROVIDE DEDICATED ISOLATED GROUND (IG) OUTLETS ON A 20 AMP CIRCUIT TO POS EQUIPMENT: 60Hz, 120V-100%. PROVIDE DUPLEX OUTLET FOR ALL POS TERMINALS, VIDEO DISPLAY UNITS & NETWORK SWITCH. PROVIDE QUADRAFLEX RECEPTACLE FOR THE BACK OFFICE CONTROLLER. THE POS SYSTEM SHALL MEET FEDERAL, STATE AND LOCAL WIRING CODES. THE POS SYSTEM WARRANTY IS INVALID IF THE SYSTEM DOES NOT MEET CODE.
 - 3) ALL POS POWER WIRING SHALL BE 3-WIRE W/ ISOLATED GROUND AND SHALL BE TERMINATED WITHIN 4 FEET OF THE DEVICE.
 - 4) PROVIDE HUBBELL #5962 16 RECEPTACLES FOR ALL POS DEVICES. LABEL RECEPTACLES "POS ONLY".
 - 5) LOW VOLTAGE WIRE SHALL BE CATEGORY #5 CABLE RUN IN 1/2" RIGID CONDUIT WITH FULL STRINGS FOR POS EQUIPMENT ONLY AND MUST BE TERMINATED WITH RJ-45 JACKS.
 - 6) A 12" MINIMUM SEPARATION MUST BE MAINTAINED BETWEEN LOW VOLTAGE WIRES AND POWER WIRING TO AVOID ELECTRICAL INTERFERENCE.
 - 7) ALL ELECTRICAL / DATA OUTLETS ARE SHOWN SCHEMATICALLY BASED ON EQUIPMENT REQUIREMENTS. VERIFY IN FIELD.
 - 8) ALL CONDUIT TO BE 3" UNLESS NOTED OTHERWISE OR REQUIRED BY QUANTITY OF CABLES.
- VDU NOTES**
- COORDINATE VDU HEIGHT WITH EQUIPMENT AND SIGNAGE. SEE INTERIOR ELEVATIONS.
- TELEPHONE / DATA NOTES**
- HIGH-SPEED INTERNET ACCESS IS REQUIRED. IT SHALL BE THE FRANCHISEE'S RESPONSIBILITY TO COORDINATE ANY UPGRADE OR INSTALLATION AS MAY BE REQ'D.
- PROVIDE 3/4" CONDUIT AND FULL STRINGS FROM RECEPTACLES TO 6" ABOVE CEILING. VERIFY EXACT REQUIREMENTS WITH TELEPHONE EQUIPMENT SUPPLIER AND INSTALLER.