

# ELECTRICAL SYMBOLS LIST

## LIGHTING SYMBOLS

	2x4x2 RECESSED FLUORESCENT CEILING MOUNTED FIXTURE "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y"
	SIMILAR TO ABOVE, EXCEPT WIRED TO LIFE SAFETY CIRCUIT "X" = FIXTURE TYPE
	SIMILAR TO ABOVE, EXCEPT WIRED CRITICAL POWER CIRCUIT "X" = FIXTURE TYPE
	WALL MOUNTED FLUORESCENT LIGHT FIXTURE "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y"
	FLUORESCENT STRIP FIXTURE-TYPE AS NOTED "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y" EM = EMERGENCY BACKUP
	UNDERCABINET LIGHT FIXTURE "X" = FIXTURE TYPE
	RECESSED CEILING MOUNTED FIXTURE "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y"
	SIMILAR TO ABOVE, EXCEPT WIRED TO LIFE SAFETY CIRCUIT "X" = FIXTURE TYPE
	WALL MOUNTED LIGHT FIXTURE "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y"
	SIMILAR TO ABOVE, EXCEPT WIRED TO LIFE SAFETY CIRCUIT "X" = FIXTURE TYPE
	ACCENT LIGHT OR WALL WASHER "X" = FIXTURE TYPE "Y" = CONTROLLED BY SWITCH "Y"
	SIMILAR TO ABOVE, EXCEPT WIRED TO LIFE SAFETY CIRCUIT "X" = FIXTURE TYPE
	CEILING MOUNTED EXIT LIGHT, TYPE "X" - DIRECTIONAL ARROWS WHERE INDICATED - SHADDED AREAS INDICATE ILLUMINATED FACE/FACES
	WALL MOUNTED EXIT LIGHT, TYPE "X" - DIRECTIONAL ARROWS WHERE INDICATED - SHADDED AREAS INDICATE ILLUMINATED FACE/FACES

## POWER SYMBOLS

	SINGLE POLE SWITCH 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY # = CONTROLLING OUTLET "Y" D = DOOR K = KEY OPERATED MO = MOMENTARY CONTACT T = TIME SWITCH P = PILOT LIGHT
	DISCONNECT SWITCH - TOGGLE TYPE MOTOR RATED, 20A, 1P, U.O.N.
	WALL DIMMER - TYPE "A" NUMBER INDICATES WATTAGE RATING
	OCCUPANCY SENSOR, CEILING MOUNTED (WATSTOPPER #D1-300 / SENSOR SWITCH #M-R-POT-P)
	OCCUPANCY SENSOR, WALL MOUNTED (WATSTOPPER #D1-100 / SENSOR SWITCH #WSD-POT-P) ab = DUAL RELAY (WATT STOPPER #D1-200) / SENSOR SWITCH (WSD-POT-P)
	OCCUPANCY SENSOR, WALL MOUNTED PROVIDE WATSTOPPER #D1-205 H = OCCUPIED/UNOCCUPIED CONTROL OF HVAC SYSTEM WITHIN ROOM
	PHOTO CONTROL SWITCH
	TRANSFORMER
	20A, 125V DUPLEX RECEPTACLE - FLUSH WALL MOUNTED XP = EXPLOSION PROOF CR = WIRED TO CRITICAL POWER SYSTEM PX = CONNECTION TO PYROS MACHINE TV = CONNECTION TO TELEVISION MN = CONNECTION TO MONITOR REF = CONNECTION TO REFRIGERATOR LOR = CONNECTION TO UNDERCOUNTER REFRIGERATOR FZR = CONNECTION TO FREEZER A/B / C = INDICATES FEED FROM ISOLATION PANEL SERVING ROOM
	20A, 125V QUADRUPLEX RECEPTACLE - FLUSH WALL MOUNTED
	20A, 125V DUPLEX RECEPTACLE FLUSH WALL MOUNTED, GFI TYPE
	SINGLE RECEPTACLE - FLUSH WALL MOUNTED WC = WATER COOLER XR = X-RAY
	SPECIAL PURPOSE RECEPTACLE - FLUSH WALL MOUNTED A = INDICATES TYPE
	PREWIRED SURFACE METAL RACEWAY - LETTERS INDICATES TYPE PROVIDE SPECIAL PURPOSE RECEPTACLES & DATA OUTLETS WHERE INDICATED AL1 = WIREMOLD MODEL #AL3800 WITH RECEPTACLES 24" O.C. AL2 = WIREMOLD MODEL #AL4800 WITH RECEPTACLES 24" O.C. GR = PROVIDED WITH GFI TYPE RECEPTACLES
	FLUSH FLOOR MOUNTED MULTI-SERVICE FIRE RATED POKE-THRU WITH (4) 20A-125V RECEPTACLES AND (4) PROVISIONS FOR TELA DATA DEVICES, HUBBELL RSTP40PRT WITH #5/SP FACE PLATE (FINISH BY ARCHITECT) OR APPROVED EQUAL
	PEDESTAL MOUNTED 20A, 125V DUPLEX RECEPTACLE
	PEDESTAL MOUNTED 20A, 125V QUADRUPLEX RECEPTACLE
	PEDESTAL MOUNTED JUNCTION BOX OR POKE-THRU FOR ELECTRIFIED FURNITURE POWER FEED.
	PEDESTAL MOUNTED SPECIAL PURPOSE RECEPTACLE LETTER INDICATES TYPE
	HOMERUN - NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY. #1-1-1F12S-34°C FOR ONE CKT. HOMERUN, U.O.N. #12-1F12S-34°C FOR TWO CKT. HOMERUN, U.O.N. #12-1F12S-34°C FOR THREE CKT. HOMERUN, U.O.N.
	HOMERUN - NUMERAL WHERE USED INDICATES CIRCUIT NUMBER FOR REFERENCE ONLY

	MOTOR CONTROLLER
	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH SWITCH AMPS# OF POLES, VOLTAGE RATINGS AS REQUIRED
	UNFUSED DISCONNECT SWITCH SWITCH AMPS# OF POLES, VOLTAGE RATINGS AS REQUIRED
	FUSED DISCONNECT SWITCH SWITCH AMPS# FUSE AMPS # OF POLES, VOLTAGE RATINGS AS REQUIRED
	ENCLOSED CIRCUIT BREAKER TRIP AMPS# OF POLES, VOLTAGE RATINGS AS REQUIRED
	SURFACE MOUNTED LIGHTING PANELBOARD
	FLUSH MOUNTED LIGHTING PANELBOARD
	SURFACE MOUNTED POWER PANELBOARD
	FLUSH MOUNTED POWER PANELBOARD
	SURFACE MOUNTED POWER DISTRIBUTION PANELBOARD
	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	FLUSH FLOOR MOUNTED JUNCTION BOX
	CONNECTION TO AUTOMATIC DOOR
	CONNECTION TO SURGICAL LIGHT
	CONNECTION TO FIRE SMOKE DAMPER
	CONNECTION TO SCRUB SINK
	CONNECTION TO AUTOMATIC TEMPERATURE CONTROL
	PULLBOX
	POWER POLE
	EXISTING CONDUIT TO BE REMOVED
	EXISTING CONDUIT/EQUIPMENT TO REMAIN
	NEW CONCEALED CONDUIT
	NEW EXPOSED CONDUIT
	NEW UNDERGROUND IN SLAB CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB-UP WITH FLEXIBLE EQUIPMENT CONNECTION
	FLEXIBLE EQUIPMENT CONNECTION
	CAPPED CONDUIT

## SINGLE LINE DIAGRAM SYMBOLS

	POWER TRANSFORMER VOLTAGES, WINDINGS AND SIZE AS INDICATED
	AUTOMATIC TRANSFER SWITCH ATS = AUTOMATIC TRANSFER P = POLES AND RATINGS AS NOTED
	MOTOR
	GENERATOR
	GROUND CONNECTION
	DIGITAL MULTIMETER

## FIRE ALARM SYSTEM

	CEILING MOUNTED SPACE SMOKE DETECTOR E = FOR ELEVATOR RECALL
	REMOTE SPACE SMOKE DETECTOR ALARM LIGHT - WALL MOUNTED
	DUCT SMOKE DETECTOR AB = ROOM PANEL BEING MONITORED
	THERMAL DETECTOR RATE-OF-RISE F = FIXED TEMPERATURE
	SPRINKLER WATER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE SWITCH
	MOTORIZED SMOKE DAMPER, FBO ELECTRICAL CONTRACTOR SHALL PREPARE A SEPARATE ITEMIZED COST ESTIMATE TO INSTALL AN EMPTY CONDUIT SYSTEM IN LEU OF NURSE CALL DEVICES SHOWN. THIS COST SHALL BE IDENTIFIED AS "ELECTRICAL DEDUCT ALTERNATE #1".
	FIRE ALARM PULL STATION
	COMBINATION FIRE ALARM SPEAKER AND STROBE LIGHT UNIT - FLUSH WALL MOUNTED
	FIRE ALARM SPEAKER - FLUSH WALL MOUNTED C = CEILING MOUNTED
	COMBINATION FIRE ALARM HORN AND STROBE LIGHT UNIT - FLUSH WALL MOUNTED
	FIRE ALARM HORN - FLUSH WALL MOUNTED C = CEILING MOUNTED
	FIRE ALARM MONITOR MODULE
	FIRE ALARM CONTROL MODULE
	DOOR HOLDERS
	ELEVATOR RECALL TIE-IN POINT
	ELECTROMAGNETIC DOOR RELEASE
	FLUSH WALL MOUNTED STROBE LIGHT UNIT
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL

## VOICE/DATA/P.A. SYMBOLS

	WALL MOUNTED PUBLIC ADDRESS SPEAKER
	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
	VOICE & DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
	VOICE OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING W = WALL PHONE, MOUNTED 4" AFF
	DATA OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
	TELEVISION OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
	PEDESTAL MOUNTED VOICE OUTLET
	VOICE OUTLET - FLUSH FLOOR MOUNTED
	PEDESTAL MOUNTED DATA OUTLET
	DATA OUTLET - FLUSH FLOOR MOUNTED
	PEDESTAL MOUNTED DATA AND VOICE OUTLET
	DATA AND VOICE OUTLET - FLUSH FLOOR MOUNTED
	CARD READER LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
	MONITOR OUTLET LOCATION WITH 3/4" CONDUIT TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING

## HEALTHCARE SYMBOLS (BASE BID)

	NURSE CALL MASTER STATION, RAULAND-BORG #R4K4020 S = SLAVE STATION
	NURSE CALL PATIENT STATION, RAULAND-BORG #R4K12A WITH HORN FLOOR SPEAKER SA = COMBINED PATIENT STATION AND STAFF ASSIST RAULAND-BORG #R4K14SA
	NURSE CALL PATIENT STATION (2 BED), RAULAND-BORG #R4K23A
	NURSE CALL EMERGENCY STATION, RAULAND-BORG #R4K9B11
	NURSE CALL LAVATORY STATION, RAULAND-BORG #R4KPC10 S = GASKETED SHOWER STATION
	NURSE CALL DUTY STATION, RAULAND-BORG #R4K40Y
	NURSE CALL STAFF ASSIST STATION, RAULAND-BORG #R4K9B11
	NURSE CALL CODE BLUE STATION, RAULAND-BORG #R4K812 SA = COMBINATION CODE BLUE & STAFF ASSIST, RAULAND-BORG #R4K92Z
	NURSE CALL EQUIPMENT CABINET-SURFACE MOUNTED F = FLUSH WALL MOUNTED
	NURSE CALL CORRIDOR LAMP, WALL MOUNTED, RAULAND-BORG #CLA244 CLG = CEILING MOUNTED
	NURSE CALL ZONE LAMP, WALL MOUNTED, NUMBER OF LAMP SECTIONS EQUAL TO NUMBER OF COLORS IN ASSOCIATED CORRIDOR LAMPS
	NURSE CALL ZONE LAMP, CEILING MOUNTED, NUMBER OF LAMP SECTIONS EQUAL TO NUMBER OF COLORS IN ASSOCIATED CORRIDOR LAMPS
	PHYSIOLOGICAL MONITORING - COMBINATION POWER/SIGNAL 2 GANG PARTITIONED WALLBOX WITH A DUPLEX RECEPTACLE AND 34"X1 1/2" AT NURSE'S STATION TERMINATED IN A 90° BEND 6" INTO ACCESSIBLE CEILING FM = FETAL MONITOR
	NURSE CALL 35 PIN CONNECTOR
	NURSE CALL LIGHTING RELAY (COORDINATE ALL REQUIREMENTS WITH LIGHTING MANUFACTURER AND NURSE CALL VENDOR)
	NURSE CALL TELEVISION RELAY (COORDINATE ALL REQUIREMENTS WITH TELEVISION MANUFACTURER AND NURSE CALL VENDOR)
	NURSE CALL SPEAKER, RAULAND-BORG #ACC1403 WITH ACC1101 BACK BOX AND #ACC1104 SUPPORT
	LINE ISOLATION MONITOR AB = ROOM PANEL BEING MONITORED
	ISOLATED X-RAY OUTLET AND ALARM INDICATOR 30A-3P OUTLET, COORDINATE NEWM CONFIGURATION WITH USERS AND EQUIPMENT REQUIREMENTS. SQUARE D #KR1A1
	POWER MODULE WITH (4) 20A HOSPITAL GRADE RECEPTACLES- SQUARE D #RM120AN
	POWER MODULE WITH (4) 20A HOSPITAL GRADE RECEPTACLES- SQUARE D #RM2R120AN
	INTERRUPTING CAPACITY
	INSIDE DIAMETER
	ISOLATED GROUND
	INCANDESCENT
	INSTRUMENT
	ISOLATED POWER CENTER
	ISOLATED POWER CENTER X-RAY
	JUNCTION BOX
	THOUSAND CIRCULAR MILS KILOVOLT

## MISCELLANEOUS SYMBOLS

	PUSH PLATE (FURNISHED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR)
	INTENSITY CONTROL (FURNISHED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR)
	EMERGENCY POWER OFF BUTTON
	SHUNT TRIP DEVICE FOR ENCLOSED CIRCUIT BREAKER
	EQUIPMENT DESIGNATION, REFER TO EQUIPMENT VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

# ELECTRICAL ABBREVIATIONS

+	SPECIAL MOUNTING HEIGHT, COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS	KVA	KILOVOLT AMPERE
1P	SINGLE POLE	KW	KILOWATT
2P	TWO POLE	KWH	KILOWATT HOUR
3P	THREE POLE	LCP	LOCAL CONTROL PANEL
A	AMPERE	LM	LINE ISOLATION MONITOR
AC	ABOVE COUNTER	LTG	LIGHTING
ACB	AIR CIRCUIT BREAKER	MAP	MECHANICAL ALARM PANEL
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFC	AMPERE INTERRUPTING CAPACITY	MCA	MINIMUM CIRCUIT AMPERES
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
ALM	ALARM	MCC	MOTOR CONTROL CENTER
AMM	AMMETER	MCP	MAIN DISTRIBUTION PANEL
AGST	AQUASTAT	MECH	MECHANICAL
ARF	ABOVE RAISED FLOOR	MER	MECHANICAL EQUIPMENT ROOM
ASYM	ASYMMETRICAL	MFS	MAIN FUSED SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	MH	MAIN HOLE
AUTO	AUTOMATIC	MIC	MICROPHONE
AV	AUDIO VISUAL	MN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUG ONLY
BG	BREAK GLASS SWITCH	MOP/MOCP	MAXIMUM OVERCURRENT PROTECTION
BIL	BASIC IMPULSE LEVEL BUILDING	MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
C	CONDUIT	MTS	MANUAL TRANSFER SWITCH
CAB	CABINET	MUFS	MAIN UNFUSED SWITCH
CAT	CATALOG	N	NEUTRAL
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY CLOSED
CKT	CIRCUIT	NO	NORMALLY OPEN
CL	CENTER LINE	NP	NETWORK PROTECTOR
CLG	CEILING	NTS	NOT TO SCALE
CLOS	CLOSET	OC	ON CENTER
CO	CONDUIT ONLY	OCB	OIL CIRCUIT BREAKER
COMM	COMMUNICATION	OD	OUTSIDE DIAMETER
CONN	CONNECTED	P	POLE
CONT	CONTINUATION	PA	PUBLIC ADDRESS
CT	CURRENT TRANSFORMER	PAP	PLUMBING ALARM PANEL
CTL	CONTROL	PB	PULL BOX
CU	COPPER	PBS	PUSH BUTTON SWITCH
CUH	CABINET UNIT HEATER	PHC	PIPE HEATING CABLE
DB	DECIBEL	PNL	PANEL
DE	DOUBLE ENDED SUBSTATION	PR	PRINTER
DEG	DEGREE	PS	PRESSURE SWITCH
DF	DRINKING FOUNTAIN	PT	POTENTIAL TRANSFORMER
DIA	DIAMETER	PWR	POWER
DISC	DISCONNECT	PHASE	PHASE
DIV	DIVISION	(RE)	RELOCATED EXISTING
DN	DOWN	(RRO)	EXISTING TO BE REMOVED AND RETURN TO OWNER
DP	DISTRIBUTION PANEL BOARD	RCS	REMOTE CONTROL SWITCH
DT	DUST TIGHT	RDOP	REMOTE DATA COLLECTION PANEL
DWG	DRAWING	REC	RECEPTACLE
°C	DEGREE CELSIUS	REF	REFRIGERATOR
°F	DEGREE FAHRENHEIT	REQ	REQUIRED
(E)	EXISTING TO REMAIN	RFL	RAISED FLOOR
(ER)	EXISTING TO BE REMOVED	RG	ROOM GROUND POINT
(ERR)	EXISTING TO BE REMOVED AND RELOCATED	RM	ROOM
E.C.	EMPTY CONDUIT	RO	RACEWAY ONLY
EA	EACH	RP	REFERENCE GROUND POINT
EC	ELECTRICAL CONTRACTOR	SAP	SPRINKLER ALARM PANEL
EL	ELEVATION	SBST	SUBSTATION
ELEC	ELECTRICAL	SCHED.SCH	SCHEDULE
ELEV	ELEVATOR	SD	SMOKE DETECTOR
EMEREM	EMERGENCY	SIP	SMOKE DETECTION PANEL
EQUIP	EQUIPMENT	SE	SINGLE ENDED SUBSTATION
ERC	ELECTRIC REHEAT COIL	SECT	SECTION
EW	ELECTRIC WATER COOLER	SIG	SIGNAL
EXT	EXISTING	SN	SOLID NEUTRAL
EXT	EXTERIOR	SP	SINGLE POLE
FA	FIRE ALARM	SPEC	SPECIFICATION
FACP	FIRE ALARM CONTROL PANEL	SPKR	SPRINKLER
FAP	FIRE ALARM ANNUNCIATOR PANEL	SPR	SPEAKER
FBO	FURNISHED BY OTHER DIVISION OF WORK	SV	SOLENOID VALVE
FCL	FAN COIL UNIT	SW	SWITCH
FDR	FEEDER	SWBD	SWITCHBOARD
FDS	FUSED DISCONNECT SWITCH	SWGR	SWITCHGEAR
FXIT	FIXTURE	SYM	SYMMETRICAL
FL	FULL LOAD AMPERES	SYS	SYSTEMS
FLA	FLEXIBLE	TB	TROUBLE BELL
FLEX	FLEXIBLE	TBD	TO BE DETERMINED
FLOOR	FLOOR	TEL	TELEPHONE
FMR	FLOOR MACHINE	TEMP	TEMPERATURE
FQJ	FAN COIL UNIT	THERM	THERMOSTAT
FDR	FEEDER	TLBD	TERMINAL BOARD
FDS	FUSED DISCONNECT SWITCH	TP	TAMPER PROOF
FLX	FLEXIBLE	TRNSFR	TRANSFORMER
FL	FULL LOAD AMPERES	TS	TAMPER SWITCH
FLEX	FLEXIBLE	TV	TELEVISION
FLOOR	FLOOR	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FMR	FLOOR MACHINE	TYPE	TYPICAL
FQJ	FAN COIL UNIT	UF	UNDERFLOOR DUCT
FDR	FEEDER	UH	UNIT HEATER
FDS	FUSED DISCONNECT SWITCH	UNF	UNFUSED
FLX	FLEXIBLE	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPERES	V	VOLT OR VOLTAGE
FLEX	FLEXIBLE	VA	VOLT AMPERE
FLOOR	FLOOR	VP	VAPORPROOF
FMR	FLOOR MACHINE	WFD	VARIABLE FREQUENCY DRIVE
FQJ	FAN COIL UNIT	WM	VOLTMETER
FDR	FEEDER	W	WATT
FDS	FUSED DISCONNECT SWITCH	WFS	WATERFLOW SWITCH
FLX	FLEXIBLE	WHM	WATT HOUR METER
FL	FULL LOAD AMPERES	WP	WEATHERPROOF
FLEX	FLEXIBLE	WT	WATERTIGHT
FLOOR	FLOOR	XP	EXPLOSION PROOF
FMR	FLOOR MACHINE		
FQJ	FAN COIL UNIT		
FDR	FEEDER		
FDS	FUSED DISCONNECT SWITCH		
FLX	FLEXIBLE		
FLA	FULL LOAD AMPERES		
FLEX	FLEXIBLE		
FLOOR	FLOOR		
FMR	FLOOR MACHINE		
FQJ	FAN COIL UNIT		
FDR	FEEDER		
FDS	FUSED DISCONNECT SWITCH		
FLX	FLEXIBLE		
FLA	FULL LOAD AMPERES		
FLEX	FLEXIBLE		
FLOOR	FLOOR		
FMR	FLOOR MACHINE		
FQJ	FAN COIL UNIT		
FDR	FEEDER		
FDS	FUSED DISCONNECT SWITCH		
FLX	FLEXIBLE		
FLA	FULL LOAD AMPERES		
FLEX	FLEXIBLE		
FLOOR	FLOOR		
FMR	FLOOR MACHINE		
FQJ	FAN COIL UNIT		
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FDR	FEEDER		
FDS			