

IBPS TEMPLE

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SHEET No.	SHEET NAME	SCALE
E-001	COVER & DRAWING LIST - ELECTRICAL	
E-002	ELECTRICAL LEGENDS	
E-101	SITE PLAN - ELECTRICAL	

no.	date	revision	by

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COVER & DRAWING LIST - ELECTRICAL

date	Issue Date	job no.
scale		23428.000
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1. DO NOT SCALE FROM THIS DRAWING
 2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES
 3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: STRUCTURAL, MECHANICAL, ELECTRICAL

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FLUSH MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		CONTACTOR
	FLUSH MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		GROUND ROD WITH INSPECTION PIT
	SURFACE MOUNTED SINGLE TUB PANEL RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		THERMOSTAT - 18mm (1/2") CONDUIT TO ACCESSIBLE CEILING SPACE
	SURFACE MOUNTED DOUBLE TUB PANEL RATING AS NOTED ON SINGLE LINE/PANEL SCHEDULE		JUNCTION BOX (SIZE SPECIFIED ON DRAWING)
	TRANSFORMER (SIZE NOTED ON SINGLE LINE DIAGRAM)		ELECTRIC UNIT HEATER
	DISCONNECT		ELECTRIC BASEBOARD HEATER "X" DENOTES TYPE. REFER TO BASEBOARD HEATER SCHEDULE
	COMBINATION MANUAL STARTER WITH INTEGRAL DISCONNECT		GROUND BAR
	COMBINATION STARTER WITH INTEGRAL DISCONNECT		HAND DRYER HARD WIRED CONNECTION
	DIRECT CONNECTION		METER
	DIRECT CONNECTION C/W DISCONNECT		RELAY
	MOTOR AND DISCONNECT		PULL BOX
	MOTOR AND RELAY DISCONNECT		GROUND BUS
	MOTOR AND COMBINATION STARTER WITH INTEGRAL DISCONNECT		DENOTES RECEPTACLE TYPE. REFER TO RECEPTACLE SCHEDULE
	VARIABLE FREQUENCY DRIVE AND VFD CABLE CONNECTION TO MOTOR. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND SUPPLIED BY ELECTRICAL CONTRACTOR		UTILITY METERING CABINET
	VARIABLE FREQUENCY DRIVE. LINE AND LOAD SIDE WIRING OF HARMONIC FILTER AND VFD BY ELECTRICAL CONTRACTOR. LOAD SIDE WIRING OF VFD TO BE VFD CABLE. VFD AND HARMONIC FILTER SUPPLIED BY MECHANICAL DIVISION		DOOR BELL / CHIME
	HARMONIC FILTER (SUPPLIED BY MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE). LINE AND LOAD SIDE WIRING OF HARMONIC FILTER BY ELECTRICAL CONTRACTOR		CLOCK WALL MOUNTED
			CLOCK CEILING MOUNTED
			PUSH BUTTON
			SOLAR PANEL

NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING MOUNTED LINEAR LUMINAIRE DIMENSIONS AS SHOWN. REFER TO SCHEDULE FOR TYPE		CEILING MOUNTED TRACK LIGHTING C/W NUMBER OF FIXTURES
	EXISTING FIXTURE ON EMERGENCY/NIGHT LIGHT CIRCUIT.		WALL MOUNTED LUMINAIRE
	EXISTING LUMINAIRE TO BE REMOVED		PENDANT FIXTURE
	EXISTING LUMINAIRE TO REMAIN		CEILING MOUNTED LUMINAIRE
	CEILING MOUNTED LUMINAIRE WITH DIMMABLE HEADS. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS		FLOOR MOUNTED LUMINAIRE
	VERTICAL WALL MOUNTED FLUORESCENT LUMINAIRE		BOLLARD LUMINAIRE
	CONTIGUOUS STRIP LIGHT. REFER TO SCHEDULE FOR FIXTURE TYPE		EMERGENCY LIGHTING BATTERY UNIT C/W NUMBER OF HEADS COMPLETED W/ DIRECT CONNECTION OR RECEPTACLE
	RECESSED CEILING MOUNTED REMOTE ADJUSTABLE HEAD. REFER TO SCHEDULE FOR TYPE AND NUMBER OF HEADS		EMERGENCY LIGHTING BATTERY + EXIT LIGHT COMBINATION UNIT C/W NUMBER OF HEADS SHOWN
	WALL MOUNTED EMERGENCY SINGLE REMOTE HEAD		EXIT LIGHT CEILING MOUNTED C/W FACES AND ARROWS AS INDICATED
	WALL MOUNTED EMERGENCY DOUBLE REMOTE HEAD		EXIT LIGHT WALL MOUNTED C/W FACES AND ARROWS AS INDICATED
	CEILING MOUNTED EMERGENCY SINGLE REMOTE HEAD		
	CEILING MOUNTED EMERGENCY DOUBLE REMOTE HEAD		

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WALL MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		WALL MOUNTED VOICE OUTLET FOR EMERGENCY PHONE STATION. CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS INTERCOM
	WALL MOUNTED VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION		SERVICE POLE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED ABOVE COUNTER VOICE OUTLET(S). CABLE TYPE AS PER SPECIFICATION		RACEWAY MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION
	WALL MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		MAIN CABLE SUPPORT ROUTE FOR COMMUNICATIONS CABLING
	FLOOR MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		COMMUNICATIONS BOX
	FLOOR MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		POWER ZONE BOX
	FURNITURE MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		TELEPHONE ZONE BOX
	FURNITURE MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		FEED POINT FOR COMMUNICATIONS CABLING. LETTER DENOTES FEED LOCATION: W = WALL, F = FLOOR, P = POLE, VM = VERTICAL
	CEILING MOUNTED VOICE AND DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		
	CEILING MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION		

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DETAIL NUMBER		SECTION NUMBER
	DRAWING NUMBER		REVISION BUBBLE
	REVISION NUMBER		
	AMPS		MOTOR OPERATED
	ACCESS DOOR		MOTOR OPERATED DAMPER
	ARC FAULT CIRCUIT INTERRUPTER		MICROWAVE
	ABOVE FINISHED FLOOR		NORMALLY CLOSED
	BASEBOARD HEATER		NOT IN CONTRACT
	BATTERY UNIT		NIGHT LIGHT
	CONDUIT		NORMALLY OPEN
	CANDELABRA		OVER COUNTER
	CEILING MOUNTED		OBSTRUCTION LIGHT
	CHARGING STATION		PARABOLIC LOUVRE
	CONVENTIONAL STYLE DEVICE		PATIENT LIFT
	DEDICATED		RELOCATE
	DEDICATED GROUND		RANGE
	DOMESTIC HOT WATER TANK		REVERSE EXISTING CIRCUIT
	DEDICATED NEUTRAL + BOND		RANGE HOOD
	LAUNDRY DRYER		ROUGH IN AND CONNECT
	DISHWASHER		EXISTING
	EXHAUST FAN		REMOVE AND REINSTALL
	EMERGENCY CIRCUIT		SEPARATE CIRCUIT
	ELECTRICAL SUITE PANEL		SYSTEM FURNITURE
	EXISTING TO BE REMOVED		SUITE ALARM PANEL
	REFRIGERATOR		SLAVE SUITE ALARM PANEL
	FLOOR FLOOR		TYPICAL
	FORCE FLOW HEATER		UNDER CABINET MOUNTED
	FLOOR MOUNTED		UPS CIRCUIT
	GROUND FAULT CIRCUIT INTERRUPTER		UNIT HEATER
	GROUND FAULT INTERRUPTER		UNINTERRUPTIBLE POWER SUPPLY
	GROUND		VOLTS
	HOUSE KEEPING		WATTS
	HARMONIC MITIGATING TRANSFORMER		WIRE GUARD
	ICE MACHINE		WIRELESS ACCESS POINT
	ISOLATED GROUND		WALL FEED
	JUNCTION BOX		WEATHERPROOF
	KILOWATTS		EXPLOSION PROOF DEVICE + BACK BOX
	LOW VOLTAGE		ZERO SEQUENCE CURRENT TRANSFORMER

NOTE: NOT ALL SYMBOLS APPLY. REFER TO DRAWINGS

ABBREVIATIONS

E	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED
R	EXISTING TO BE RELOCATED
RR	REMOVE AND REINSTALL
WP	EXTERIOR WEATHERPROOF
AF	ABOVE FINISHED FLOOR
TYP	TYPICAL - TO BE INTERPRETED AS EXACTLY THE SAME AS COMPARABLE FEATURES.
V	VOLTS
KW	KILOWATTS
X	EXPLOSION PROOF DEVICE
WM XXX AFF	WALL MOUNTED AT XXXmm AFF. XXX INDICATES SPECIFIC HEIGHT
CM	CEILING MOUNT
ELV	ELEVATOR MOUNT
RFM	ROOF MOUNT
CAM-XX-XX	FIRST XX INDICATES FLOOR NUMBER, SECOND XX INDICATES CAMERA NUMBER
CNR XXX AFF	CORNER MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT
PM XXX AFF	PENDANT MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT
PTM XXX AFF	PARAPET MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT
PLE XXX AFF	POLE MOUNT AT XXXmm AFF. XXXX INDICATES SPECIFIC HEIGHT
TYPE-XX	DEVICE TYPE. XX INDICATES SPECIFIC TYPE. REFER TO RELATIVE SPECIFICATIONS AND/OR SCHEDULES FOR ADDITIONAL DETAILS.
FUNC-XX	FUNCTION TYPE. XX INDICATES SPECIFIC CAMERA FUNCTION DESCRIPTION. FUNC 04=DETECT, FUNC 02=OBSERVE, FUNC 03=RECOGNIZE, FUNC 04=IDENTIFY REFER TO SPECIFICATIONS AND SCHEDULES FOR ADDITIONAL DETAILS.

NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION TRANSFORMER - DELTA-WYE UNLESS OTHERWISE NOTED		AUTO-TRANSFORMER
	ISOLATION TRANSFORMER WITH ELECTROSTATIC SHIELD - DELTA-WYE UNLESS OTHERWISE NOTED		BATTERY
	MOLDED CASE CIRCUIT BREAKER, SIZE AS SHOWN		CONTACTOR
	LOW VOLTAGE DRAW-OUT CIRCUIT BREAKER, TRIP PLUG AND FRAME SIZE AS SHOWN		CURRENT TRANSFORMER
	DRAW-OUT VACUUM CIRCUIT BREAKER, PROTECTIVE RELAY FUNCTIONS AND FRAME SIZE AS SHOWN		CURRENT TRANSFORMER (Z.S. - DENOTES ZERO SEQUENCE)
	FUSIBLE LOW BREAK ISOLATION SWITCH, VOLTAGE, FUSE AND FRAME SIZE AS SHOWN		GROUND FAULT ALARM RELAY
	FUSE		IP BASED POWER QUALITY DIGITAL METER PROVIDE 21mm(3/4") CONDUIT TO NEAREST TELECOM ROOM
	INSULATED CASE CIRCUIT BREAKER		EMERGENCY GENERATOR
	INTEGRAL BREAKER AND STARTER UNIT, BREAKER AND FRAME SIZE AS SHOWN		GROUND CONNECTION POINT
	INTEGRAL SWITCH AND FUSE UNIT, FUSE AND FRAME SIZE AS SHOWN		GROUND LOOP
	LOAD BREAK ISOLATION SWITCH, VOLTAGE AND FRAME SIZE AS SHOWN		HIGH RESISTANCE GROUND FAULT SYSTEM
	AUTOMATIC TRANSFER SWITCH WITH BY-PASS		LIGHTNING SURGE ARRESTOR
	AUTOMATIC TRANSFER SWITCH WITHOUT BY-PASS		LOAD BANK
	FIRE PUMP AUTOMATIC TRANSFER SWITCH AND STARTER UNIT (BY OTHERS)		METERING SOCKET
	MANUAL TRANSFER SWITCH OR DOUBLE THROW SWITCH		METERING CABINET
			DIGITAL ELECTRONIC METER
			AMMETER

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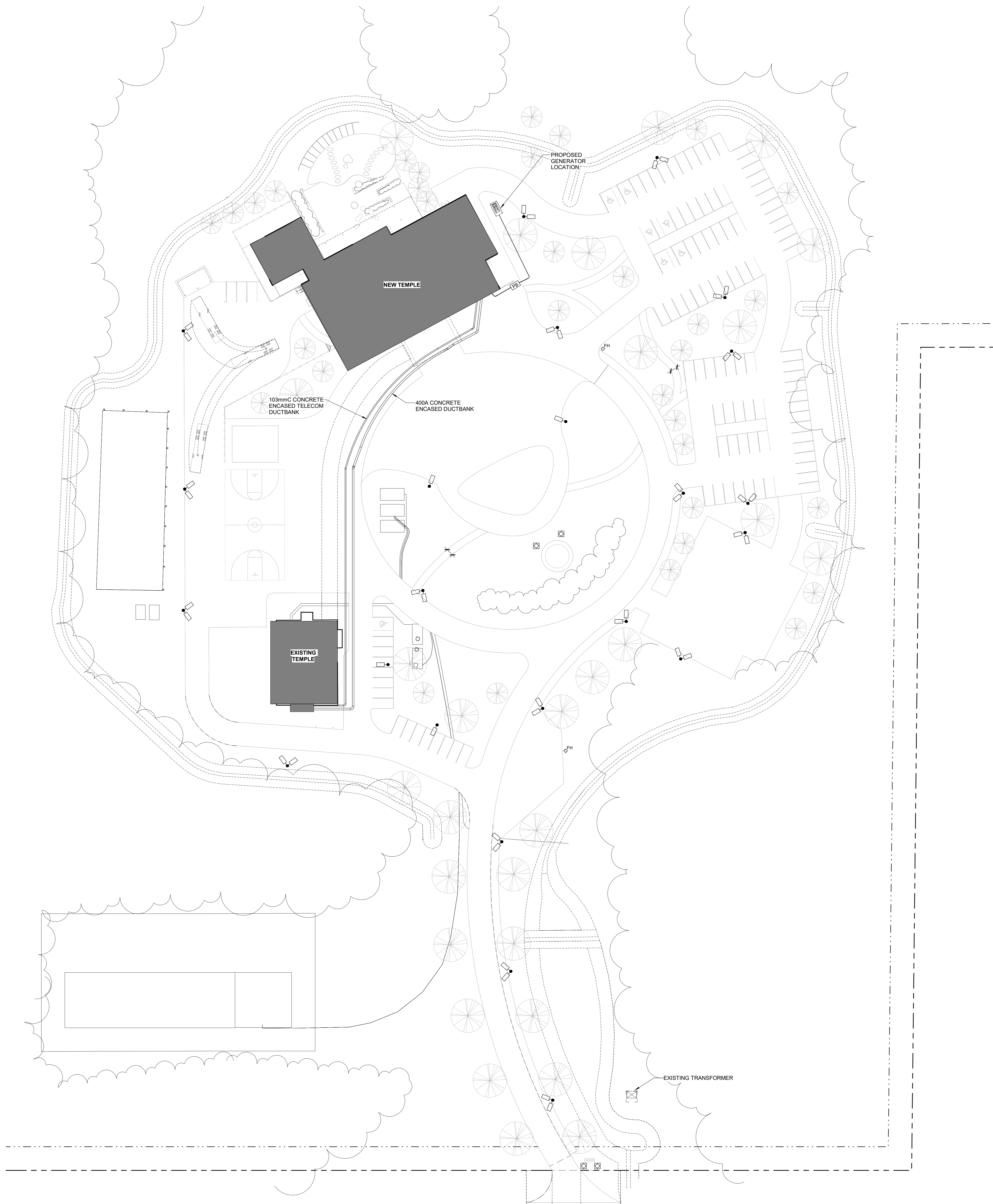
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE POLE LINE VOLTAGE LIGHT SWITCH		CEILING MOUNTED PHOTO CELL SWITCH
	2 GANG - LINE VOLTAGE LIGHT SWITCH		WALL MOUNTED PHOTO CELL SWITCH
	3 GANG - LINE VOLTAGE LIGHT SWITCH		DAY LIGHT PHOTO SENSOR
	4 GANG - LINE VOLTAGE LIGHT SWITCH		TIME SWITCH
	3 WAY - LINE VOLTAGE LIGHT SWITCH		CEILING MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY "X". REFER TO OCCUPANCY SENSOR SCHEDULE
	4 WAY - LINE VOLTAGE LIGHT SWITCH		WALL MOUNTED OCCUPANCY SENSOR. TYPE DENOTED BY "X". REFER TO OCCUPANCY SENSOR SCHEDULE
	LOW VOLTAGE LIGHT SWITCH		LIGHTING CONTROL PANEL
	KEY OPERATED LINE VOLTAGE SWITCH		REMOTE STATION WITH PRESET SCENE SELECTION BUTTON
	MASTER SWITCH		PARTITION POSITION INFRARED SENSOR FOR LIGHTING CONTROL
	ALL-OFF SWITCH		AREA LIGHTING CONTROL MODULE
	SINGLE POLE 347V SWITCH		LIGHTING AREA/ROOM CONTROLLER
	DIMMER TYPE TO SUIT LOAD		

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ALARM INITIATING DEVICES			
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		AIR SAMPLING SYSTEM
	WALL MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR		MANUAL STATION
	CEILING MOUNTED PHOTO-ELECTRIC SMOKE DETECTOR C/W RELAY BASE		BEAM SMOKE DETECTOR (TRANSMITTER)
	CEILING MOUNTED RATE-OF-RISE HEAT DETECTOR		BEAM SMOKE DETECTOR (RECEIVER)
	WALL MOUNTED RATE-OF-RISE HEAT DETECTOR		FLAME DETECTOR
	CEILING MOUNTED FIXED TEMPERATURE HEAT DETECTOR		
	WALL MOUNTED FIXED TEMPERATURE HEAT DETECTOR		
	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR		
	DUCT TYPE PHOTO-ELECTRIC SMOKE DETECTOR COMPLETE WITH HEATER		
	CEILING MOUNTED COMBINATION HEAT + SMOKE DETECTOR		
LOCAL ALARM DEVICES			
	LOCAL 120V SMOKE ALARM		LOCAL 120V COMBINATION SMOKE ALARM AND STROBE
	LOCAL 120V COMBINATION CARBON MONOXIDE AND SMOKE ALARM		LOCAL 120V COMBINATION CARBON MONOXIDE ALARM AND STROBE
	LOCAL 120V CARBON MONOXIDE ALARM		
SPRINKLER/STANDPIPE DEVICES			
	LOW PRESSURE SUPERVISED SWITCH (SUPPLIED BY OTHERS)		ALARM DRY PIPE VALVE (SUPPLIED BY OTHERS)
	SPRINKLER SUPERVISED VALVE (SUPPLIED BY OTHERS)		
	ALARM LOW FLOW SWITCH (SUPPLIED BY OTHERS)		
	ALARM PRESSURE SWITCH (SUPPLIED BY OTHERS)		
	ALARM CHECK VALVE (SUPPLIED BY OTHERS)		

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SURGE PROTECTION DEVICE		KEY INTERLOCK SYSTEM - ONE KEY
	POTENTIAL TRANSFORMER		KEY INTERLOCK SYSTEM - N LOCKS, N-1 KEYS UNLESS NOTED OTHERWISE
	ZERO SEQUENCE CURRENT TRANSFORMER		ELECTRONIC INTERLOCK SYSTEM - N LOCKS
	UPS DIODE		MEDIUM VOLTAGE CABLE TERMINATION POINT WITH STRESS CONE
	VOLTAGE INDICATOR		ELECTRONIC TRANSFORMER TEMPERATURE RELAY
	DENOTED CONNECT - ED - LOAD APPLIED TO DESIGNATED APPARATUS		POWER METER
	AUTOMATIC POWER FACTOR CORRECTION CAPACITOR SYSTEM. SIZE AS SHOWN. COMPLETE WITH TUNED INPUT FILTER		DIGITAL TRIP UNIT WITH METERING FUNCTION
	HIGH RESISTANCE GROUNDING RESISTOR - MAXIMUM CONTINUOUS AMPS AS SHOWN		SHUNT TRIP
	RELAY FUNCTION NUMBER		IP BASED GATEWAY FOR POWER MONITORING
	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT)		
	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS)		
	ELECTRONIC TRIP SETTING CONTROL (LONG, SHORT, INSTANTANEOUS, GROUND FAULT)		
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		WALL MOUNTED SIMPLEX RECEPTACLE 250V, 30 AMP, CSA 14-30R
	WALL MOUNTED ABOVE COUNTER DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 20 AMP, CSA 5-20R (T-SLOT)		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION (DUPLEX) RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R, DEDICATED CIRCUIT		FLOOR POKE THROUGH COMBINATION COMMUNICATION (DUPLEX) RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED SPLIT SWITCH CONTROLLED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R		WALL MOUNTED COMBINATION COMMUNICATION (DUPLEX) RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO CORRESPONDING DETAIL.
	WALL MOUNTED DUPLEX GROUND FAULT RECEPTACLE 120V, 20 AMP, CSA 5-20R		WALL MOUNTED DUPLEX RECEPTACLE 120V, 15 AMP, CSA 5-15R
	WALL MOUNTED ABOVE COUNTER DUPLEX GROUND FAULT RECEPTACLE 120V, 20 AMP, CSA 5-20R		FLOOR OR CEILING MOUNTED (AS SHOWN) COMBINATION COMMUNICATION (DUPLEX) RECEPTACLE 120V, 15 AMP, CSA 5-15R. REFER TO COR



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