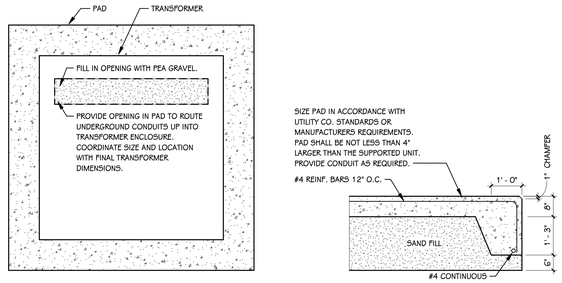
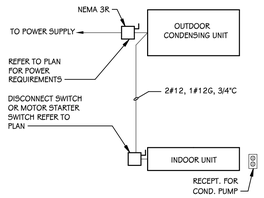


OUTDOOR GENERATOR/TRANSFORMER PAD
SCALE: NONE

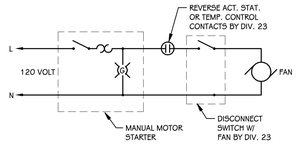
ELECTRICAL HVAC FEEDER SCHEDULE

DESCRIPTION	FED FROM	DISCONNECT MEANS	CURRENT (FLA)	DEMAND (FLA)	BREAKER/POLES	FEEDER # OF SETS	FEEDER WIRE	FEEDER GROUND	FEEDER EMT	ACCUM VOLT DROP %	NOTES
480 V											
HVAC - AC-101A	MDP	30A NONFUSED DISCONNECT	16 A	16 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	1.4%	
HVAC - AC-101B	MDP	30A NONFUSED DISCONNECT	16 A	16 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	1.3%	
HVAC - AC-101C	MDP	60A NONFUSED DISCONNECT	30 A	30 A	40 A/3	1 SET	3 #8	#10 GND.	3/4"	1.2%	
HVAC - CUH-101C	MDP	30A NONFUSED DISCONNECT	8 A	8 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	0.9%	
HVAC - CUH-101D	MDP	30A NONFUSED DISCONNECT	8 A	8 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	1.0%	
HVAC - RTU-101	MDP	BY DIV 23	88 A	88 A	110 A/3	1 SET	3 #1	#6 GND.	1 1/2"	1.3%	1
HVAC - RTU-102A	MDP	BY DIV 23	88 A	88 A	110 A/3	1 SET	3 #1	#6 GND.	1 1/2"	1.2%	1
HVAC - RTU-102B	MDP	BY DIV 23	88 A	88 A	110 A/3	1 SET	3 #1	#6 GND.	1 1/2"	1.4%	1
HVAC - WH-1	MDP	30A NONFUSED DISCONNECT	22 A	22 A	30 A/3	1 SET	3 #10	#10 GND.	3/4"	1.1%	
208 V											
HVAC - CUH-101A	51A	30A NONFUSED DISCONNECT	9 A	9 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	1.8%	
HVAC - CUH-101B	51A	30A NONFUSED DISCONNECT	9 A	9 A	20 A/3	1 SET	3 #12	#12 GND.	3/4"	1.6%	
208 V											
HVAC - ACCU-113, 99-113	51A	30A NONFUSED DISCONNECT	7 A	7 A	20 A/2	1 SET	2 #12	#12 GND.	3/4"	2.1%	2
120 V											
HVAC - EF-108, EF-109	51A	MANUAL MOTOR STARTER	2 A	2 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	1.1%	
HVAC - EF-123	51A	MANUAL MOTOR STARTER	2 A	2 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	1.1%	
HVAC - FPTU-101A	51A	MANUAL MOTOR STARTER	16 A	16 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	4.1%	
HVAC - FPTU-101B	51A	MANUAL MOTOR STARTER	16 A	16 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	4.2%	
HVAC - FPTU-104	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	2.4%	
HVAC - FPTU-106	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	3.2%	
HVAC - FPTU-111A	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #8	#8 GND.	3/4"	3.4%	
HVAC - FPTU-111B	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #8	#8 GND.	3/4"	3.6%	
HVAC - FPTU-111C	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	4.9%	
HVAC - FPTU-119A	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	3.8%	
HVAC - FPTU-119B	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	4.0%	
HVAC - FPTU-120A	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	3.8%	
HVAC - FPTU-120B	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	4.0%	
HVAC - FPTU-121	51A	MANUAL MOTOR STARTER	17 A	17 A	30 A/1	1 SET	2 #10	#10 GND.	3/4"	3.1%	
HVAC - P-1	51A	MANUAL MOTOR STARTER	2 A	2 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	0.8%	
HVAC - RF-103, RF-110, RF-117	51A	MANUAL MOTOR STARTER	3 A	3 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	1.2%	
HVAC - TU-104	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	3.1%	
HVAC - TU-106	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	4.1%	
HVAC - TU-107	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	4.3%	
HVAC - TU-119	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	5.0%	
HVAC - TU-120	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #12	#12 GND.	3/4"	4.7%	
HVAC - TU-123	51A	MANUAL MOTOR STARTER	13 A	13 A	20 A/1	1 SET	2 #10	#10 GND.	3/4"	3.6%	

GENERAL: CONDUIT SIZES BASED ON EMT AND COPPER CONDUCTORS UNLESS OTHERWISE NOTED. UPSIZE AS REQUIRED WHERE PVC OR GALVANIZED IS USED OR REQUIRED PER SPECIFICATIONS.
1 PROVIDE RAINTIGHT DISCONNECT AT EXTERIOR EQUIPMENT AND REMOTE STARTER IN ELECTRICAL ROOM.
2 PROVIDE CONNECTION TO EXTERIOR EQUIPMENT AND INTERCONNECT BETWEEN OUTSIDE UNIT AND INTERIOR UNIT. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE RAINTIGHT DISCONNECT ON EXTERIOR UNIT.



TYPICAL AC SPLIT SYSTEM
SCALE: NONE

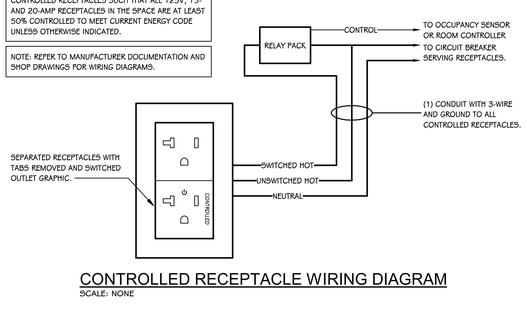


EXHAUST FAN CONTROL
SCALE: NONE

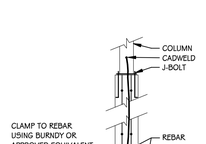
NOTE: PROVIDE (1) RELAY PACK PER CIRCUIT CONTAINING CONTROLLED RECEPTACLES. REFER TO POWER PLAN(S) FOR CIRCUIT QUANTITIES.

NOTE: WHERE CONTROLLED RECEPTACLES ARE INDICATED FOR A SPACE ON THE LIGHTING AND RECEPTACLE CONTROL SCHEDULE, PROVIDE CONTROLLED RECEPTACLES SUCH THAT ALL 125V, 15- AND 20-AMP RECEPTACLES IN THE SPACE ARE AT LEAST 50% CONTROLLED TO MEET CURRENT ENERGY CODE UNLESS OTHERWISE INDICATED.

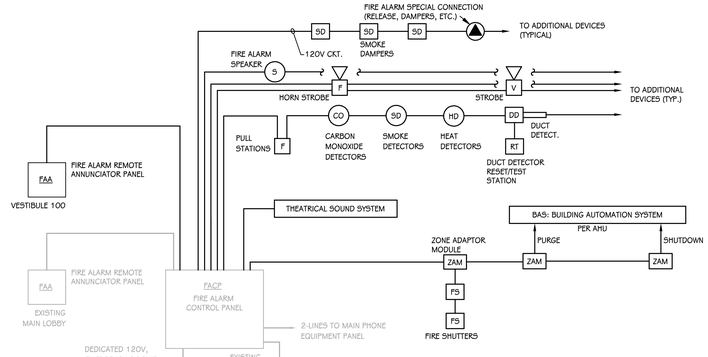
NOTE: REFER TO MANUFACTURER DOCUMENTATION AND SHOP DRAWINGS FOR WIRING DIAGRAMS.



CONTROLLED RECEPTACLE WIRING DIAGRAM
SCALE: NONE

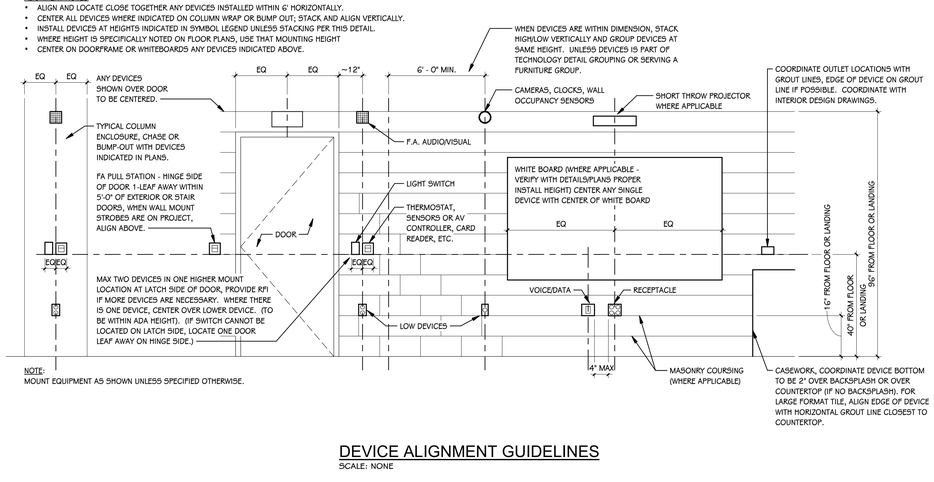


COLUMN GROUNDING DETAIL
SCALE: NONE

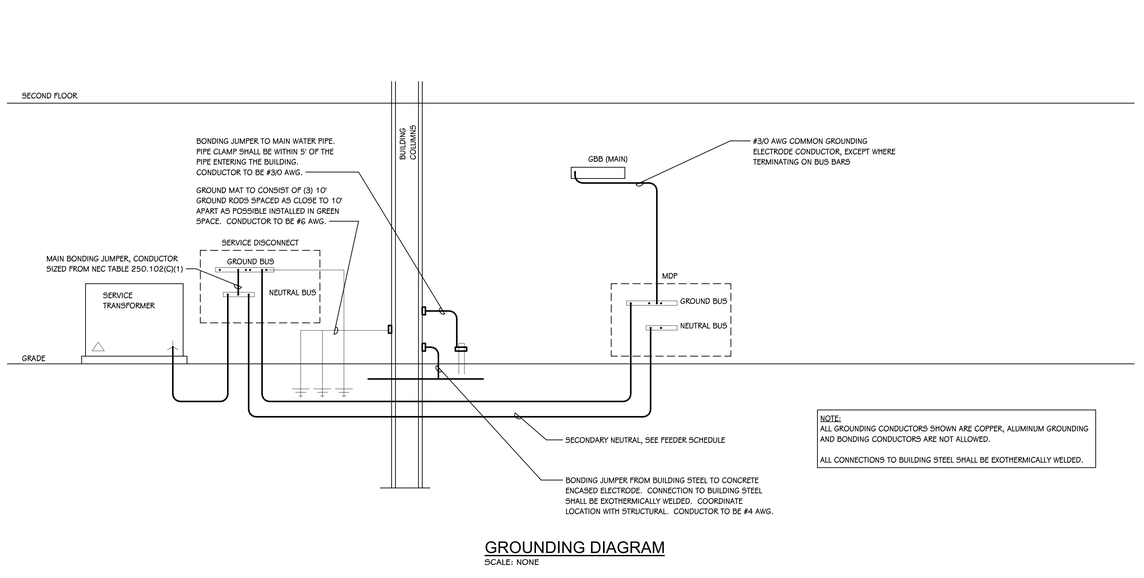


FIRE ALARM SYSTEM RISER DIAGRAM
SCALE: NONE

FIRE ALARM SYSTEM NOTES:
1. REFERENCE SPECIFICATION SECTION 283100 FOR ADDITIONAL REQUIREMENTS.
2. FIRE SHUTTERS SHALL BE WIRED THRU A CORNELL MODEL #58A RELEASING MECHANISM (OR FIREFLY EQUIV.) AND RELEASED BY A ZAM MODULE FOR RELIABLE "FAIL-SAFE" OPERATION.
3. FIRE SHUTTER SMOKE DETECTORS SHALL BE SYSTEM DETECTORS. ONLY DETECTORS LOCATED BY SHUTTERS SHALL OPERATE THE RELEASE MECHANISM. (SHUTTERS SHALL NOT OPERATE ON GENERAL ALARM).
4. ZAM MODULE IS PROGRAMMED TO FOLLOW ACTION OF THE DETECTORS AT THE SHUTTER.
5. FIRE DAMPER SUPPLY: FOLLOW THE DUCT DETECTOR LOCATED ON THE SUPPLY SIDE OF THE AIR HANDLING UNIT.
6. FIRE DAMPER RETURN ARE ACTIVATED BY THE DUCT DETECTOR AT THE LOCATION OF THE DAMPER OR BY OPEN AREA (CEILING DETECTORS) IN AREA RETURN IS DRAWING FROM. THE LATTER OPTION REQUIRES FULLY DETECTED AREA OF RETURN SAMPLING.
7. INSTALL WIRING AND CABLES IN ACCORDANCE WITH SPECIFICATIONS.
8. PROVIDE TWO TELEPHONE LINES FROM FACP DIGITAL ALARM COMMUNICATOR TRANSMITTER TO THE TELEPHONE SERVICE EQUIPMENT TERMINATION AT THE TELEPHONE SERVICE EQUIPMENT SHALL BE DONE BY THE OWNER'S TELEPHONE COMPANY CONTRACTOR.



DEVICE ALIGNMENT GUIDELINES
SCALE: NONE



NOTE:
ALL GROUNDING CONDUCTORS SHOWN ARE COPPER, ALUMINUM GROUNDING AND BONDING CONDUCTORS ARE NOT ALLOWED.

ALL CONNECTIONS TO BUILDING STEEL SHALL BE EXOTHERMICALLY WELDED.

GROUNDING DIAGRAM
SCALE: NONE

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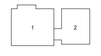
STEVE MYERS STREET
SEATTLE, WA 98121
P: 214.871.9397

PROPOSED SITE IMPROVEMENTS FOR:
TowneSouth CHURCH
TOWNE SOUTH CHURCH
2224 PEARTREE RD.
ELIZABETH CITY, NC 27909



KEY PLAN

ARCHITECTURE
RISEPOINTE
CONTACT: CHRIS STRASSER
200 N HARRISON ST UNIT 101
ALGONQUIN, IL 60102
P:815.900.8067
WWW.RISEPOINTE.COM

GENERAL CONTRACTOR
A.R. CHESSON
CONTACT:CHRIS MORRIS
126 E RICH BLVD
ELIZABETH CITY, NC 27909
P:252.338.5171
WWW.ARCHESSON.COM

CIVIL ENGINEERING
EASTERN CAROLINA CONSTRUCTION
CONTACT: BRIANT ROBEY
134 US HWY 158 E
CAMDEN, NC 27921
P:252.621.3672
WWW.EASTERNCAROLINAENGINEERING.COM

STRUCTURAL
TOWER PINKSTER
CONTACT: BAILEY RAMLER
4 FULTON ST E #200
GRAND RAPIDS, MI 49503
P:616.794.6225
WWW.TOWERPINKSTER.COM

MECHANICAL
TOWER PINKSTER
CONTACT: DENVER WESSELS
4 FULTON ST E #200
GRAND RAPIDS, MI 49503
P:616.456.9944
WWW.TOWERPINKSTER.COM

ELECTRICAL
TOWER PINKSTER
CONTACT: CONNOR NICKELSON
4 FULTON ST E #200
GRAND RAPIDS, MI 49503
P:616.456.9944
WWW.TOWERPINKSTER.COM

PLUMBING
TOWER PINKSTER
CONTACT: DENVER WESSELS
4 FULTON ST E #200
GRAND RAPIDS, MI 49503
P:616.456.9944
WWW.TOWERPINKSTER.COM

AUDIO - VIDEO - LIGHTING - ACOUSTICS
LIVESPACE
CONTACT: JOHN HENRY
1999 STAIR ST SE
GRAND RAPIDS, MI 49546
P:844.572.8547
WWW.LIVESPACE.COM

INFORMATION TECHNOLOGY
INTUILSE
CONTACT: CHRIS STIEB
131 FOXSHIRE DR
LANCASTER, PA 17601
P:717.790.5392
WWW.INTUILSE.COM

NO.	DESCRIPTION	ISSUE DATE
A	ISSUED FOR 100% SD	2026.01.30
B	ISSUED FOR PERMIT	2026.03.23
C	ISSUED FOR 95% CD	2026.04.30

PROJECT NAME
TOWNE SOUTH CHURCH
2224 PEARTREE RD.
ELIZABETH CITY, NC 27909

CURRENT ISSUE
ISSUED FOR 95% CD
2026.04.30

SHEET NAME
ELECTRICAL SCHEDULES AND DETAILS

PROJECT NUMBER
25-623

SCALE
As indicated

DRAWING NUMBER
E-402

4/30/2026 3:00:00 PM

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