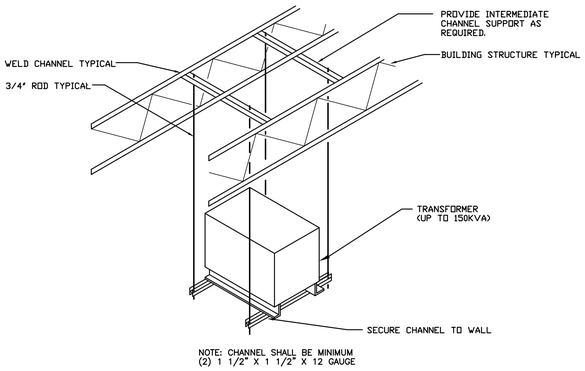
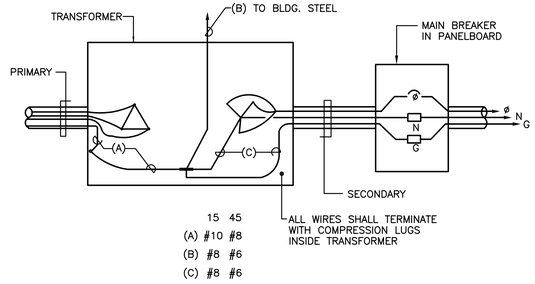
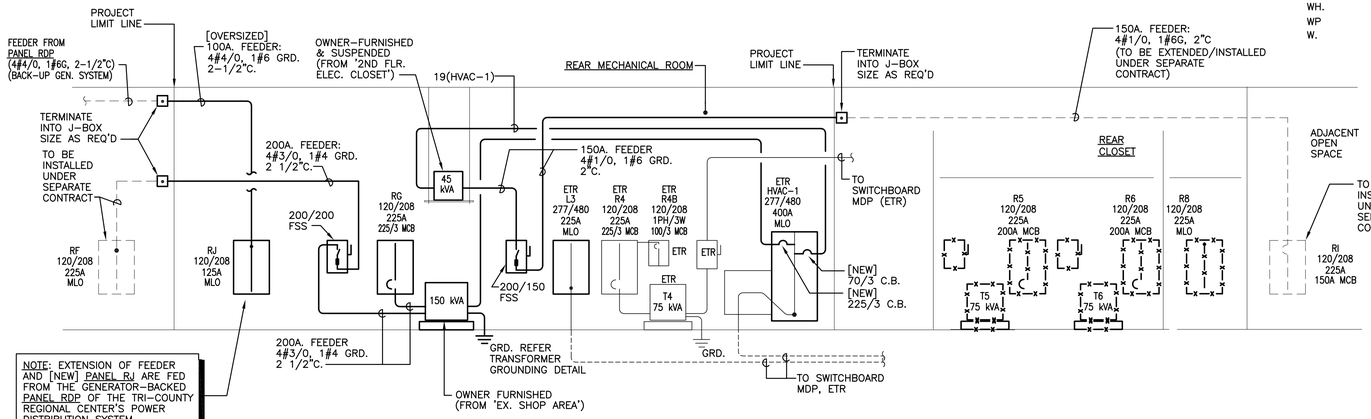


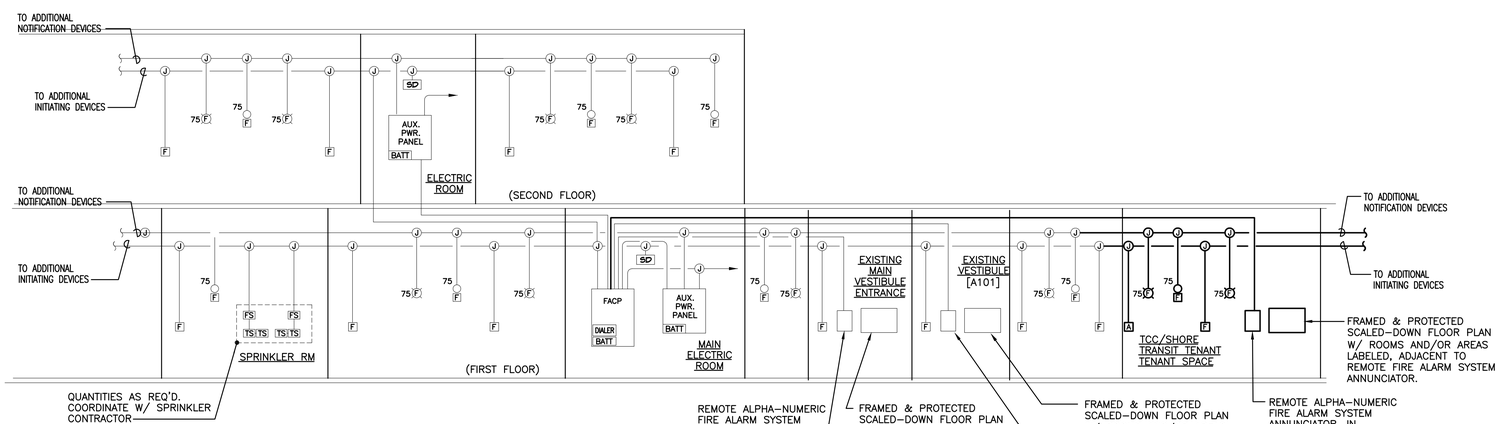
3 DETAIL - TRANSFORMER SUPPORT
NOT TO SCALE



4 TRANSFORMER GROUNDING DETAIL
NOT TO SCALE



1 POWER RISER DIAGRAM
NOT TO SCALE



2 FIRE ALARM RISER DIAGRAM - EXISTING/NEW
NOT TO SCALE

NOTE:
PROVIDE GROUNDING & BONDING, AS REQUIRED, PER NEC ARTICLES 760 & 250 FOR THE FIRE DETECTION & ALARM SYSTEM.

FIRE ALARM SYSTEM SHOWN IS TYPICAL. ACTUAL QUANTITIES ARE NOT INDICATED. SEE FLOOR PLAN FOR ACTUAL DEVICES AND LOCATIONS. WIRING IS NOT INDICATED, ONLY A POSSIBLE RACEWAY DISTRIBUTION. WIRING WILL VARY DEPENDING ON THE MANUFACTURER. WIRING & CONDUITS SHALL BE INSTALLED AS REQUIRED FOR A COMPLETE & SATIFACTORY INSTALLATION.

F.A. SYSTEM NOTES:
COMPLETE FIRE ALARM SHOP DRAWINGS SHALL BE PREPARED & SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION (LAHJ). THE SUBMISSION SHALL BE REVIEWED & APPROVED BY THE LAHJ PRIOR TO ANY INSTALLATION OF THE FIRE DETECTION & ALARM SYSTEM.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A, AMP.	AMPERE (S)
A.I.C.	AMPERES INTERRUPTING CAPACITY
A.H.J.	AUTHORITIES HAVING JURISDICTION
VIA	BY WAY OF
CKT.	CIRCUIT
C.	CONDUIT
CP	CIRCULATING PUMP
E.F.	EXHAUST FAN
E.H.	ELECTRIC HEATER
GRD.	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTING
IF	INLINE FAN
KVA	KILOVOLT AMPERES
LTG.	LIGHTING
M.C.B.	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
M.L.O.	MAIN LUGS ONLY
MIN.	MINIMUM
MTD.	MOUNTED
M.H.	MOUNTING HEIGHT
NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
N.	NEUTRAL
NO., #	NUMBER
ø	PHASE
P.	POLE (S)
RAC.	ROOFTOP AIR CONDITIONER
REC.	RECEPTACLE (S)
SSHP	SPLIT SYSTEM HEAT PUMP
SP	SUMP PUMP
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.	VOLT (S)
VAV.	VARIABLE AIR VOLUME
W.	WATTS
WH.	WATER HEATER
WP	WEATHERPROOF
W.	WIRE

ELECTRICAL LEGEND

- LIGHTING FIXTURE – FLUORESCENT – TYPE AS SPECIFIED.
- LIGHTING FIXTURE – FLUORESCENT STRIP – TYPE AS SPECIFIED.
- LIGHTING FIXTURE – RECESSED DOWN LTG., SURFACE OR SUSPENDED CEILING MOUNTED. TYPE AS SPECIFIED.
- LIGHT FIXTURE – TYPE AS SPECIFIED – FILLED CIRCLE DENOTES A FIXTURE WITH A BATTERY EMERGENCY LIGHT BALLAST.
- EXIT SIGN – UNIVERSAL MOUNTING. NUMBER OF SHADED AREAS INDICATE NUMBER OF FACES. ARROWS INDICATED DIRECTIONAL FACE.
- EMERGENCY LIGHT FIXTURE – TYPE AS SPECIFIED
- REMOTE EMERGENCY LIGHT HEAD TYPE AS SPECIFIED.
- 120 VOLT DUPLEX RECEPTACLE AT 18" A.F.F. U.O.N. AMPERAGE RATING TO MATCH CIRCUIT ATTACHED TO (NEMA 5-15R OR NEMA 5-20R).
- DOUBLE DUPLEX RECEPTACLE – NEMA 5-20R CONFIGURATION – M.H. 18" A.F.F. U.O.N.
- 120 VOLT DUPLEX RECEPTACLE AT 48" A.F.F. U.O.N. AMPERAGE RATING TO MATCH CIRCUIT ATTACHED TO (NEMA 5-15R OR NEMA 5-20R).
- G — 120 VOLT GFI TYPE DUPLEX RECEPTACLE. AMPERAGE RATING TO MATCH CIRCUIT ATTACHED TO (NEMA 5-15R OR NEMA 5-20R). MOUNT AT 18" A.F.F. U.O.N. CROSS HATCH INDICATES MOUNTING AT 8" ABOVE COUNTER OR 48" A.F.F. WHERE THERE IS NO COUNTER. 'WP' INDICATES TO PROVIDE HINGED CORROSION RESISTANT FLIP LID COVER PLATE.
- SINGLE SIMPLEX ECEPTACLE – NEMA 5-20R CONFIGURATION – M.H. 18" A.F.F. U.O.N.
- PANELBOARD UNLESS OTHERWISE NOTED – SURFACE MOUNTED. MOUNT AT 6'-0" A.F.F. TO TOP UNLESS OTHERWISE NOTED.
- DISCONNECT SWITCH, NON-FUSIBLE. SIZE AS NOTED. PROVIDE NEMA 1 ENCLOSURES FOR INTERIOR DRY LOCATIONS. PROVIDE NEMA 3R ENCLOSURES FOR EXTERIOR, DAMP OR WET LOCATIONS.
- MOTOR
- J, J — JUNCTION BOX.
- S, SWP — SWITCH – SINGLE POLE. AMPERAGE AND VOLTAGE RATING TO MATCH CIRCUIT ATTACHED TO. MOUNT AT 48" A.F.F. "WP" INDICATES SWITCH WITH HINGED CORROSION RESISTANT FLIP LID COVER PLATE.
- S3 — THREE-WAY SWITCH – M.H. 48" A.F.F.
- S4 — FOUR-WAY SWITCH – M.H. 48" A.F.F.
- SM — THERMAL MANUAL MOTOR STARTER SWITCH. NEMA 1 ENCLOSURE FOR INTERIOR DRY LOCATIONS. NEMA 4X ENCLOSURE FOR EXTERIOR, DAMP OR WET LOCATIONS. MOUNT AT 48" A.F.F. WHERE POSSIBLE. FLUSH MOUNTED IN FINISH AREAS.
- WIRING AND CONDUIT UNDERGROUND, UNDERSLAB OR AT CEILING OF FLOOR BELOW. WIRING AND CONDUIT UNDERGROUND, UNDERSLAB OR AT CEILING OF FLOOR BELOW. REFER TO SCHEDULES FOR SIZES OF CONDUCTORS AND SIZES OF CONDUIT. ALL BRANCH CIRCUITS AND FEEDERS ARE TO HAVE INDIVIDUAL GROUND.
- WIRING IN OR ON CEILINGS AND WALLS FOR BRANCH CIRCUITS. REFER TO SCHEDULES FOR WIRING METHODS, SIZES OF CONDUCTORS AND SIZES OF CONDUIT WHERE APPLICABLE. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE INDIVIDUAL GROUND CONDUCTORS.
- HOMERUN TO PANELBOARD. REFER TO SCHEDULES FOR WIRING METHODS, SIZES OF CONDUCTORS AND SIZES OF CONDUIT WHERE APPLICABLE. ALL BRANCH CIRCUITS AND FEEDERS ARE TO HAVE INDIVIDUAL GROUND CONDUCTORS.
- CIRCUIT BREAKER.
- GROUND
- FAAP — FIRE ALARM ANNUNCIATOR PANEL – TOP AT 6'-0" A.F.F.
- FACP — FIRE ALARM CONTROL PANEL TOP AT 6'-0" A.F.F.
- 75 — FIRE ALARM STROBE APPLIANCE AT 6'-8" AFF. SUBSCRIPT INDICATES CANDELA RATING.
- 75 F — COMBINATION FIRE ALARM HORN AND STROBE APPLIANCE AT 6'-8" AFF. SUBSCRIPT INDICATES CANDELA RATING OF STROBE.
- F — FIRE ALARM MANUAL PULL STATION – M.H. 48" A.F.F.
- A — FIRE ALARM ANSUL SYSTEM
- B — FIRE ALARM SYSTEM BELL IN WEATHERPROOF ENCLOSURE AT 8'-0" A.F.F.
- SD — AREA SMOKE DETECTOR CEILING/WALL MOUNTED. WALL MOUNTED 12" BELOW CEILING.
- HD — AREA THERMAL (HEAT) DETECTOR
- DD — DUCT SMOKE DETECTOR
- WT — VALVE TAMPER SWITCH
- WF — WATER FLOW SWITCH
- F/S — FIRE/ SMOKE DAMPER
- TC — 120 VOLT TIMECLOCK IN NEMA 1 ENCLOSURE.
- LC — LIGHTING CONTACTOR WITH 12 NORMALLY OPEN 20 AMP CONTACTS, 120 VOLT CONTROL COIL AND NEMA 1 ENCLOSURE.
- T — TRANSFORMER
- CB — NEMA 1 ENCLOSURE CIRCUIT BREAKER. SIZE AS NOTED.
- RING AND STRING FOR TELEPHONE/DATA DEVICE (BY OTHERS). EXTEND STRING TO NEARBY ACCESSIBLE CEILING SPACE . MOUNT RING AT 18" A.F.F.
- S — SPEAKER – FLUSH CEILING MOUNTED.
- (1) — DENOTES REFERENCE TO SPECIFIC NOTE

ELECTRICAL DRAWING LIST:

E001	ELECTRICAL DETAILS AND LEGEND
E002	ELECTRICAL SCHEDULES
E100	FLOOR PLAN – LIGHTING DEMOLITION
E101	FLOOR PLAN – POWER AND SPECIAL SYSTEMS DEMOLITION
E102	(NOT USED).
E200	FLOOR PLAN – LIGHTING
E201	FLOOR PLAN – POWER
E202	FLOOR PLAN – FIRE ALARM
E203	FLOOR PLAN – MECHANICAL EQUIPMENT CONNECTIONS

BECKER MORGAN GROUP
ARCHITECTURE ENGINEERING
Dover, DE
309 S Governors Ave
Dover, DE 19904
302.734.7950
Salisbury, MD
312 West Main St. Suite 300
Salisbury, MD 21801
410.546.9100
Wilmington, NC
3205 Randall Parkway, Suite 211
Wilmington, NC 28403
910.341.7600
www.beckermorgan.com

SCHLENGER/PITZ & ASSOCIATES, INC
Consulting Engineers
15 West Aylesbury Road, Timonium, MD 21093
Phone 410.561.1337 Fax 410.561.1446
7 Old Farm Lane Shrewsbury, PA 17361
Phone 717.227.2320 Fax 717.227.9916
4 North Main Street Selbyville, DE 19975
Phone 302.436.2733 Fax 302.436.5211
www.spoengineers.com © Copyright 2010

"Professional Certification. I here by certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 16961, Expiration Date: 2012-06-14 ."

PROJECT TITLE

TCC/SHORE TRANSIT EXISTING BUILDING

31901 TRI-COUNTY WAY
SALISBURY, MD 21804

ISSUED
FOR BIDDING ONLY
DATE: 03/29/11

SHEET TITLE

SHEET TITLE

ELECTRICAL DETAILS AND LEGEND

KEY PLAN

ISSUE BLOCK

MARK	DATE	DESCRIPTION
	03/29/11	ISSUED FOR BIDDING
	2/1/2011	ISSUED FOR BIDDING

PROJECT NO:	2009145.00
DATE:	03/29/11
SCALE:	
DRAWN BY: MH	PROJ MGR: DAS

E001

2010.0087