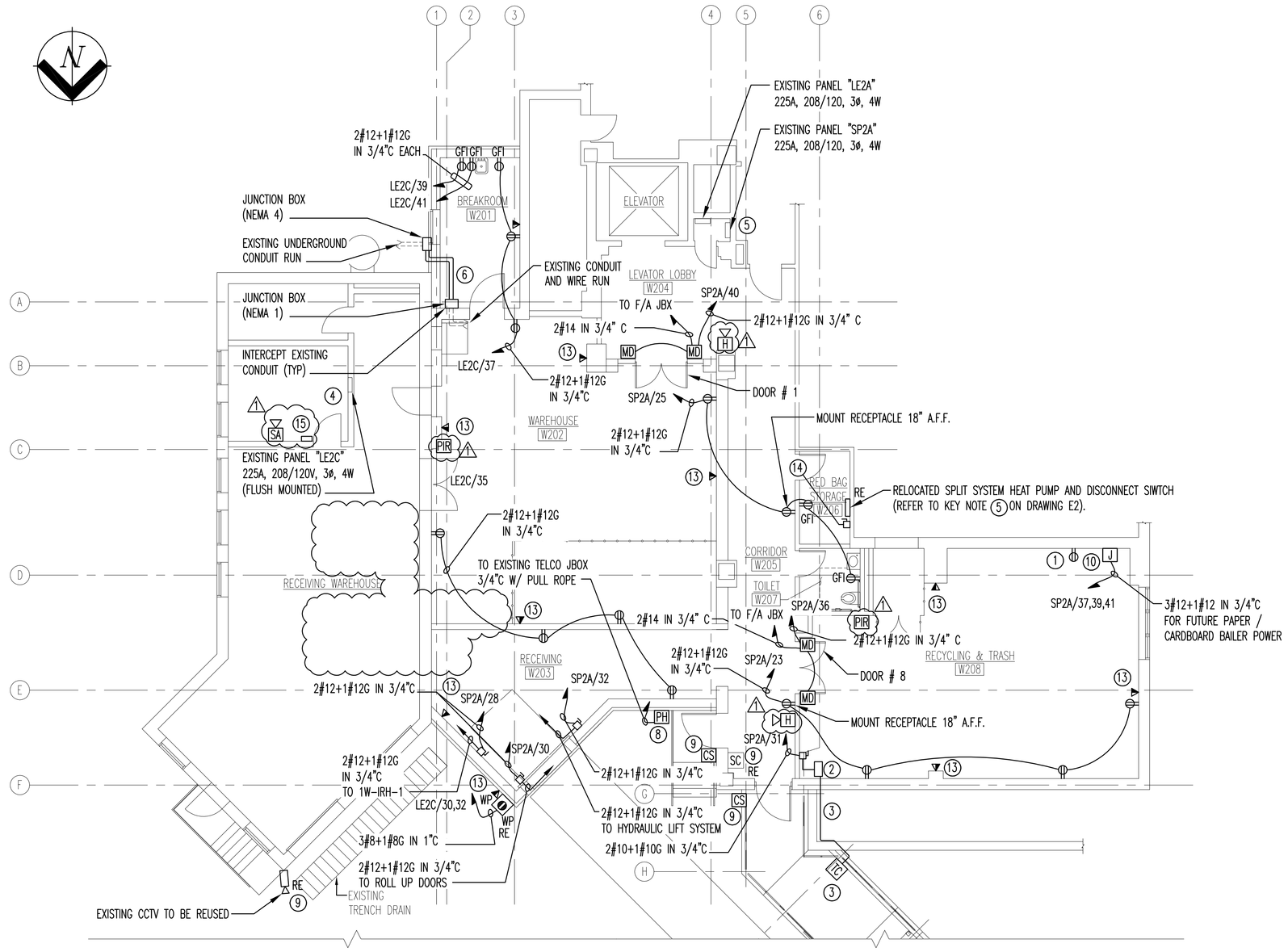
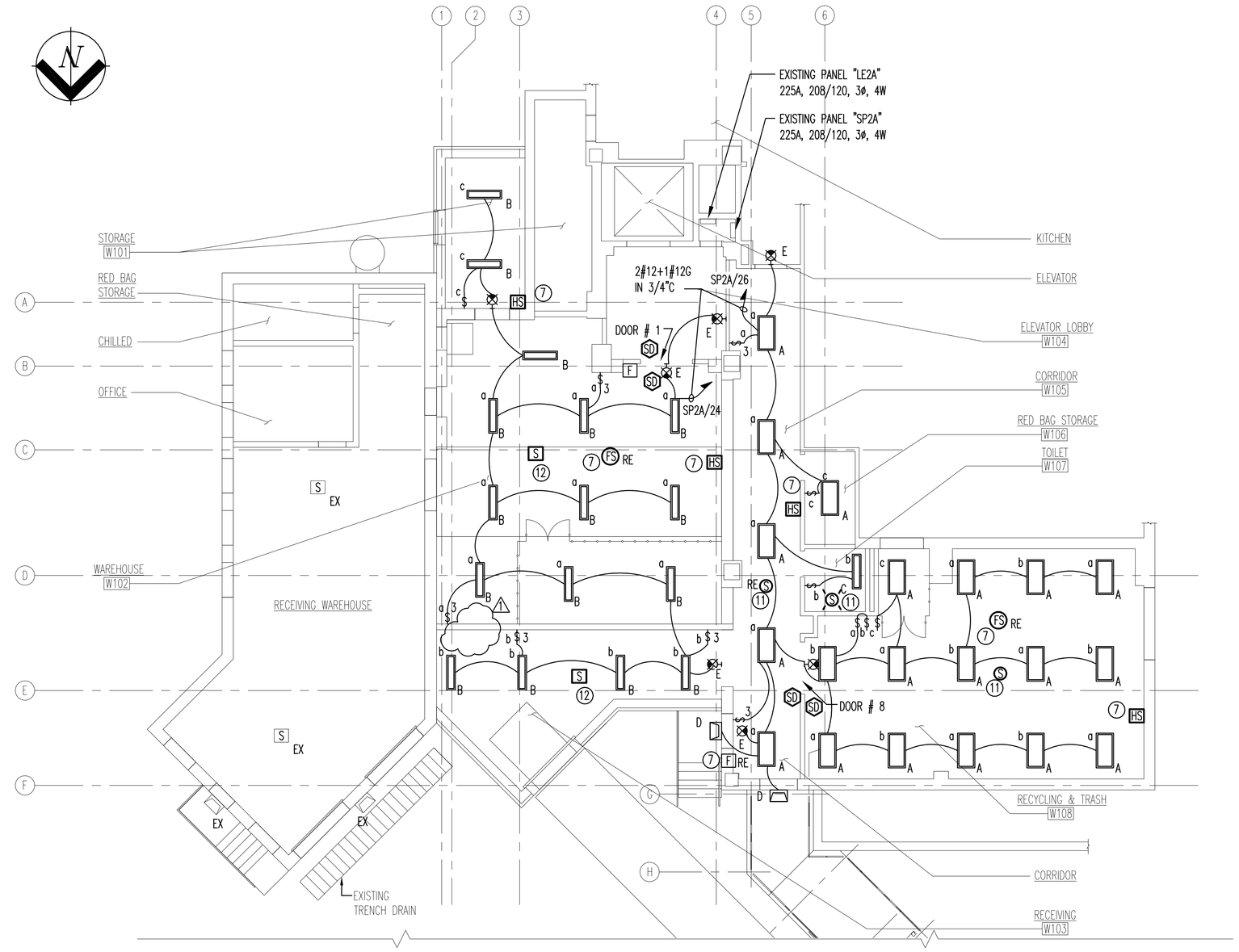


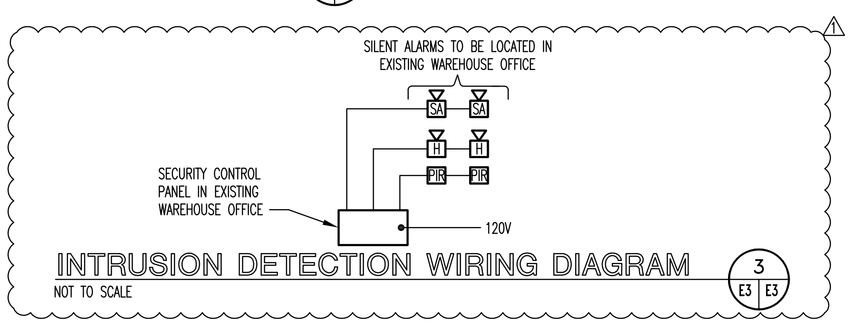
PARTIAL POWER PLAN (1 / E3 E3)

SCALE: 1/8"=1'-0"



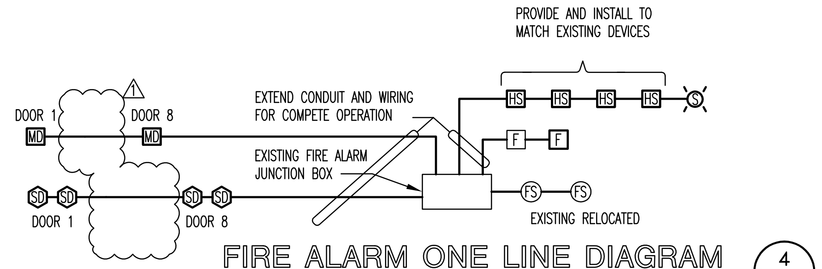
PARTIAL LIGHTING PLAN (2 / E3 E3)

SCALE: 1/8"=1'-0"



INTRUSION DETECTION WIRING DIAGRAM (3 / E3 E3)

NOT TO SCALE



FIRE ALARM ONE LINE DIAGRAM (4 / E3 E3)

NOT TO SCALE
(SEE DIRECTIONAL NOTES ON DRAWING E1)

ELECTRICAL NOTES:

1. REFER TO DRAWING E1 FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES.
2. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE EXISTING EQUIPMENT TO REMAIN INCLUDING EXISTING CONDUIT AND WIRE. PROVIDE ALL MODIFICATIONS TO EXTEND EXISTING CIRCUITS AS NECESSARY.
3. REFER TO DRAWING E1 FOR PANEL SCHEDULES.
4. ALL RECEPTACLES SHALL BE 48" AFF, UNLESS NOTED OTHERWISE.
5. NO RECEPTACLES SHALL BE INSTALLED BACK-TO-BACK
6. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF LIGHTING FIXTURES.
7. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER.
8. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION, OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
9. CIRCUIT NUMBERS ARE INDICATED FOR INTENT ONLY. THE CONTRACTOR SHALL ADJUST ACCORDINGLY IN THE FIELD, TO BALANCE THE CIRCUITS EVENLY ON ALL PHASES.
10. ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.
11. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
12. FIRE ALARM DEVICES SHALL MATCH EXISTING EQUIPMENT AND BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. COORDINATE WITH COTR AND FIRE ALARM VENDOR. EXISTING FIRE ALARM SYSTEM IS MANUFACTURED BY NOTIFIER. SEE NOTE DN1 ON DRAWING E1.
13. FOR ALL TELEPHONE AND DATA OUTLETS; CONTRACTOR SHALL INSTALL ALL REQUIRED CAT 6 CABLING FROM DATA/TELEPHONE OUTLET TO COMMUNICATIONS ROOM LOCATED ON THE SECOND FLOOR. FOR BIDDING PURPOSES CONTRACTOR SHALL ASSUME A DISTANCE OF 700 FEET FROM LOADING DOCK AREA TO COMMUNICATIONS/DATA ROOM. PROVIDE AND INSTALL ALL REQUIRED CONNECTIONS AND TERMINATIONS AT BOTH ENDS OF RUN. CONTRACTOR SHALL LABEL ALL OUTLETS FOR SYSTEM IDENTIFICATION (LABELING TO MATCH EXISTING CODING). CONTRACTOR SHALL COORDINATE WITH THE COTR FOR ALL REQUIRED RUNS AND TERMINATIONS TO THE COMMUNICATIONS ROOM. ALL DATA AND TELEPHONE OUTLETS SHALL BE FULLY FUNCTIONAL AT CONTRACT COMPLETION.
14. PROVIDE 4"x4" OUTLET BOX WITH A SINGLE GANG COVER PLATE WITH PULL WIRE FOR ALL COMMUNICATION TELEPHONE/DATA OUTLETS OR AS REQUIRED BY SPECIFICATIONS.

KEY NOTES:

1. EXISTING RECEPTACLE TO REMAIN AND BE REUSED. POWER AS NECESSARY VIA EXISTING CIRCUIT.
2. RELOCATED TRASH COMPACTOR HYDRAULIC UNIT AND CONTROLLER.
3. EXISTING TRASH COMPACTOR CONTROL PUSH BUTTON AND FLEXIBLE CONTROL CABLE SHALL BE REINSTALLED. PROVIDE FOR ALL NECESSARY MOUNTING AND CONNECTIONS FOR COMPLETE OPERATION OF RELOCATED SYSTEM.
4. PROVIDE AND INSTALL (4) FOUR 20A, SINGLE POLE CIRCUIT BREAKERS AND (1) ONE 50A, 2P CIRCUIT BREAKER IN EXISTING PANEL FOR POWER TO RECEPTACLES. UPDATE EXISTING PANEL SCHEDULE AS REQUIRED. PANEL MANUFACTURED BY SIEMENS.
5. PROVIDE AND INSTALL (14) FOURTEEN 20A, SINGLE POLE CIRCUIT BREAKERS, (1) ONE 50A SINGLE POLE CIRCUIT BREAKER, (2) TWO 30A, SINGLE POLE CIRCUIT BREAKERS AND (1) ONE 20A, THREE POLE CIRCUIT BREAKER IN PANEL FOR POWER REQUIREMENTS AS SHOWN. UPDATE EXISTING PANEL SCHEDULE AS REQUIRED. PANEL MANUFACTURED BY SQUARE "D".
6. INTERCEPT EXISTING (2) TWO 2" CONDUIT AND WIRE AND RELOCATE AS NECESSARY FOR INSTALLATION OF WALL. INTERCEPT EXISTING CONDUIT WITH JUNCTION BOXES AS SHOWN. RUN CONDUIT AND SPLICE IN WIRE AS NECESSARY TO ACCOMMODATE THE RELOCATION. FOR BIDDING PURPOSES ASSUME 200' OF #4 AWG WIRE. PROVIDE AND INSTALL ALL MATERIAL NECESSARY FOR COMPLETE INSTALLATION.
7. RELOCATE EXISTING FIRE ALARM DEVICES AND PROVIDE ADDITIONAL DEVICES AS SHOWN. CONNECT TO EXISTING FIRE ALARM DETECTION AND NOTIFICATION CIRCUITS. PROVIDE FIRE ALARM CABLES AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. SEE FIRE ALARM ONE LINE DIAGRAM, THIS DRAWING (SEE NOTE DN1 ON DRAWING E1).
8. RELOCATE EXISTING PHONE AND ASSOCIATED NEMA 4X ENCLOSURE. RE-INSTALL IN LOCATION AS SHOWN. RELOCATED PHONE SHALL BE ACCESSIBLE AT GRADE.
9. CONTRACTOR SHALL EXTEND EXISTING CONDUIT AND PHONE WIRING TO ACCOMMODATE THIS LOCATION. CONTRACTOR SHALL COORDINATE WITH COTR. CONTRACTOR SHALL RELOCATE EXISTING CARD SWIPE, ASSOCIATED CONTROL CABINET, DOOR HARDWARE, AND CCTV CAMERA TO LOCATIONS AS SHOWN. CONTRACTOR SHALL COORDINATE WITH MEI AND THE COTR FOR THE RELOCATION OF THIS EQUIPMENT (SEE DIRECTIONAL NOTES DN1 AND DN2 ON DRAWING E1). PROVIDE AND INSTALL CARD SWIPE DEVICES SUITABLE FOR OUTDOOR USE.
10. CONTRACTOR SHALL COORDINATE WITH THE COTR FOR SPECIFIC REQUIREMENTS ON ELECTRICAL POWER FOR FUTURE BAILER. CONTRACTOR SHALL PROVIDE FOR IN HIS BID A 20A, 3 PHASE SYSTEM FOR FUTURE USE. IF 120V OR 208V, SINGLE PHASE POWER IS REQUIRED THEN CONTRACTOR SHALL MODIFY CIRCUIT ACCORDINGLY.
11. CONTRACTOR SHALL REINSTALL ONE EXISTING AND ONE CEILING RECESSED P.A. SPEAKER AS SHOWN. SPEAKER SHALL MATCH EXISTING. CONNECT SPEAKERS TO EXISTING P.A. WIRING. EXTEND CONDUIT AND WIRING AS NECESSARY FOR COMPLETE OPERATIONAL SYSTEM.
12. CONTRACTOR SHALL INSTALL TWO SUSPENDED TYPE P.A. SPEAKERS IN LOCATIONS AS SHOWN. SPEAKERS SHALL MATCH EXACTLY THE TYPE OF EQUIPMENT INSTALLED IN RECEIVING WAREHOUSE. EXTEND CONDUIT AND WIRE, FROM EXISTING WAREHOUSE MOUNTED P.A. SPEAKER(S), TO SPEAKERS IN PROJECT LOCATION. MOUNTING OF SPEAKERS TO MATCH EXISTING CONFIGURATION.
13. PROVIDE AND INSTALL DATA/TELEPHONE OUTLETS. THIS INCLUDES CONDUIT, BACK-BOXES, PULL ROPE, CAT 6 CABLE AND OUTLETS FOR 2 DATA LINES, 1 VOICE AND 1 SPARE (SEE ELECTRICAL NOTE 13). ALL OUTLETS (BACK-BOXES) SHALL BE MOUNTED 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
14. CONTRACTOR SHALL CONNECT EXISTING RELOCATED SPLIT SYSTEM HEAT PUMP TO EXISTING POWER CIRCUIT ASSOCIATED WITH THIS UNIT (REFER TO KEY NOTE 5 ON DRAWING E2). MODIFY EXISTING CIRCUIT AS REQUIRED TO COMPLETE TASK.
15. PROVIDE SURFACE MOUNTED SECURITY CONTROL PANEL MANUFACTURED BY TYCO OR APPROVED EQUAL. PROVIDE 2#12, 1#12G IN 3/4"C TO 20A, 1P CIRCUIT BREAKER IN EXISTING POWER PANEL "LE2C".

8' 4' 0' 8' 16'
SCALE 1/8" = 1'-0"

BID SUBMISSION

Revisions	Date
SECURITY REQUIREMENTS PER VA COMMENTS	7-18-12

Professional Seal

DCS INFRASTRUCTURE, LLC
MOUNT LAUREL, NEW JERSEY

Hatch Mott MacDonald

Drawing Title	ELECTRICAL PARTIAL POWER PLAN AND PARTIAL LIGHTING PLAN
Approved : Division Chief	
Approved : Service Director	
Project Title	FCA RECONFIGURE LOADING DOCK
Building Number	1
Checked	RKC/IB
Drawn	CDC
Location	ALTOONA, PENNSYLVANIA
Date	MAY 30, 2012
Project No.	503-11-107
Drawing No.	E3
Sht. 26 of 27	

Office of Facilities
Department of Veterans Affairs

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