

GENERAL DEMOLITION NOTES

- EACH CONTRACTOR SHALL REVIEW THE EXISTING SYSTEMS IN THE FIELD ALONG WITH BID DOCUMENTS AND DETERMINE SELECTIVE DEMO AND ADDITION OF TEMPORARY SYSTEMS (IF REQUIRED) TO MAKE PHASED DEMO AND PROPOSED REMODELING. IT SHALL ASSURE UNINTERRUPTED SAFE OPERATION OF AREAS THAT ARE AFFECTED BY DEMO AND ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS AND COORDINATE PHASING ACCORDINGLY.
- CONFIRM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REUSED OR EXTENDED.
- WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK IN ORDER TO ACCOMMODATE.
- WHERE EXISTING CONDUIT, WIRE, SUPPORTS, HANGERS AND OTHER ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE DEMOLITION. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT AND THE CONDUIT SHALL BE PLUGGED AT EACH END.
- EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, CONTROLS, CONDUIT OUTLETS, FITTINGS, AND OTHER DEVICES REMOVED AS A RESULT OF THE ALTERATIONS SHALL REMAIN THE PROPERTY OF THE OWNER AND MAY BE REUSED WHERE INDICATED.
- EXAMINE THE CONDITION OF ANY SUCH MATERIALS AND EQUIPMENT TO MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS TO THE ENGINEER WHO WILL IN TURN MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE FOR REUSED AND RELOCATED EQUIPMENT SHALL BE NEW.
- IN ORDER TO COORDINATE THE WORK OF THE MECHANICAL AND ELECTRICAL TRADES, REMOVE EXISTING ELECTRICAL WORK IN AND ABOVE CEILING OF THESE AREAS (AS REQUIRED), AFTER WHICH INSTALL NEW WORK AND REINSTALL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUIPMENT SHALL BE REUSED ONLY WHERE INDICATED.
- SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, ETC. SHALL BE REROUTED AND RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED, AFTER WHICH NEW WORK SHALL BE INSTALLED AND TEMPORARY WIRING REMOVED.
- ANY ELECTRICAL EQUIPMENT THAT IS TAGGED TO BE DISPOSED OF SHALL BE DONE PER APPROVED METHOD IN ACCORDANCE WITH THE I/H PLAN AND LOCAL AUTHORITIES.
- THIS DRAWING INDICATES AREAS THAT ARE BEING AFFECTED BY THE DEMOLITION. DASHED LINES SHOW EXISTING MATERIALS AND EQUIPMENT TO BE REMOVED. SOLID LINES SHOW EXISTING MATERIALS AND EQUIPMENT TO REMAIN. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AFFECTED BY THE DEMOLITION AND WILL KEEP REMAINING EQUIPMENT CONNECTED, POWERED TO THE EXISTING CIRCUITS AS REQUIRED.
- THIS DRAWING SHOWS A REPRESENTATIVE SAMPLE OF DEMOLITION WORK THAT IS TO TAKE PLACE. NOTE THAT NOT EVERY DEVICE, LIGHTING FIXTURE, CONDUIT ETC. REQUIRED TO BE DEMOLISHED IS NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF EXISTING WORK TO BE DEMOLISHED.
- ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
- MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS AND BRANCH CIRCUITS PASSING THROUGH RENOVATED AREA AND SERVING UNDISTURBED AREAS.
- ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED FOR THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT IT IS CLEAN, FREE OF DAMAGE, FREE OF CORROSION, AND ADEQUATELY SUPPORTED.
- DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS IN WALLS, FLOORS AND CEILING SCHEDULED FOR DEMOLITION.
- EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SURVEYS OF EXISTING CONDITIONS THAT ARE VISIBLE DURING THE DESIGN PHASE. CONTRACTOR SHALL CONFIRM ALL SERVICES PRIOR TO PROCEEDING WITH DEMOLITION.
- PATCH ALL HOLES IN SLABS, WALLS AND CEILING WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL.
- WHERE FEEDERS OR BRANCH CIRCUITS ARE DISCONNECTED AND REMOVED FROM EXISTING PANEL BOARDS, CONTRACTOR SHALL MARK THE AFFECTED BREAKERS IN THOSE PANEL BOARDS AS "SPARE".
- CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL, AND CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
- VERIFY THAT REMOVAL OF DEVICES IN RENOVATED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNECTED.
- ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING FIRE ALARM SYSTEM. HOWEVER, EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED AND IN OPERATION UNTIL NEW FIRE ALARM SYSTEM IS IN OPERATION AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES

- BEFORE COMMENCING WORK THE CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY INFORM HIMSELF OF ALL CONDITIONS THAT AFFECT THE WORK, EXAMINE THE DRAWINGS AND SPECIFICATIONS, AND SUBMIT ANY QUESTIONS IN WRITING TO THE ENGINEER.
- ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
- THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE THAT NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FROM THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQUIRED FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR.
- EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO INSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
- COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE APPLICABLE CODES AND REGULATIONS.
- ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
- CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY ARCHITECT.
- FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
- ADJACENT POWER AND DATA DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED.
- ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHALL BE MOUNTED PER MOUNTING HEIGHT LEGEND OR TO MATCH BUILDING STANDARD, UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE NEW UNLESS OTHERWISE NOTED.
- ALL FIRE ALARM NOTIFICATION DEVICES SHALL BE MOUNTED AT 80" AFF IN ACCORDANCE WITH ADA, UNLESS OTHERWISE NOTED.
- DETERMINE, IN ADVANCE OF PURCHASE, THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL FIT INTO THE ROOM OR SPACE ALLOCATED, AS INDICATED ON THE DRAWINGS, ALLOWING SUFFICIENT CLEARANCE FOR THE SAFE SERVICE AND/OR MAINTENANCE OF RELATED EQUIPMENT, INCLUDING THAT OF OTHER TRADES.
- TELEPHONE AND DATA AND CCTV SYSTEM CABLING AND EQUIPMENT SHALL BE PROVIDED BY EC. EC SHALL PROVIDE REQUIRED JUNCTION BOXES, CONDUIT, AND PULL STRING FOR ALL NEW TELEPHONE AND DATA LOCATIONS.
- ALL LIGHT FIXTURES INSTALLED IN PLENUM RETURNS SHALL BE PLENUM RATED. ALL LOW VOLTAGE WIRING ABOVE CEILING NOT INSTALLED IN CONDUIT SHALL ALSO BE PLENUM RATED.
- MINIMUM SIZE OF CONDUCTORS SHALL BE #12 THHN COPPER WIRING RATED @75°C. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". WIRING COLOR CODING SHALL BE PER NATIONAL ELECTRICAL CODE. PROVIDE GREEN GROUND WIRE SIZED PER NEC FOR EACH FEEDER.
- ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE ALL WORK WITH OVERALL PHASING (AP1.01-AP1.04) AND ICRA PROTECTION PLAN (AG0.05).

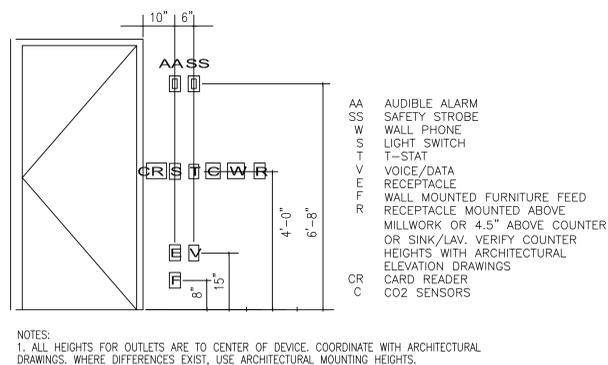
LEGEND

N	————	NEW
X	————	EXISTING TO REMAIN
XR	————	EXISTING IN NEW LOCATION
XRR	-----	EXISTING TO BE REMOVED AND RELOCATED
XO	-----	EXISTING TO BE REMOVED

ELECTRICAL SYMBOL LIST

	#	DUPLEX RECEPTACLE, # INDICATES CIRCUIT
		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	GFI	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER
		SIMPLEX RECEPTACLE
	#	QUADPLEX RECEPTACLE (# INDICATES CIRCUIT)
	AC	QUADPLEX RECEPTACLE MOUNTED ABOVE COUNTER
		QUADPLEX RECEPTACLE, DEDICATED CIRCUIT
		DUPLEX RECEPTACLE CEILING MOUNTED
		DUPLEX FLOOR CORE FLUSH MOUNTED
		SIMPLEX NEMA 5-30R RECEPTACLE (208V)
		DISCONNECT
		DATA/TELE JACK @ FLOOR CORE FLUSH MOUNTED
		COMBINATION (2) DATA / (1) TELEPHONE OUTLET
	AC	COMBINATION (2) DATA / (1) TELEPHONE OUTLET MOUNTED ABOVE COUNTER
	J	JUNCTION BOX
	TV	CATV OUTLET
	TV	CEILING MOUNTED CATV OUTLET
	DH	CEILING MOUNTED DAYLIGHT HARVEST SENSOR
	\$OS	WALL MOUNTED LINE VOLTAGE PASSIVE IR OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH
	\$	TOGGLE SWITCH
	\$3	3-WAY TOGGLE SWITCH
	\$D	3-WAY DIMMER
	OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	S	CEILING MOUNTED SPEAKER
	E	DEVICE OR FIXTURE ON EMERGENCY CIRCUIT
		SECURITY ACCESS, VIDEO CAMERA WITH LENS, ANGLE OF VIEW

MOUNTING HEIGHT LEGEND



SCOPE OF WORK

- PROVIDE NEW ELECTRICAL DISTRIBUTION INCLUDING NORMAL AND EMERGENCY (LIFE SAFETY SERVICE EQUIPMENT) FROM EXISTING SWITCHGEAR IN BUILDING. REFER TO DEMO AND PROPOSED RISER DIAGRAM ON SHEETS EP6.0 FOR MORE DETAILS.
- EXISTING PANELS SHALL REMAIN IN OPERATION UNTIL AREA SERVED IS VACATED FOR PHASED RENOVATION. DURING RENOVATION, REMOVE PANEL, FEEDER AND ALL WIRING, CONDUIT, AND CONNECTED DEVICES, UNLESS NOTED OTHERWISE.
- EXISTING INCOMING TELEPHONE FIBER SERVICE TO REMAIN. PROVIDE NEW TEL/DATA WIRING AND DEVICES AS REQUIRED TO EXISTING TELEPHONE CLOSET. PROVIDE RACK, SWITCHES, PATCH PANELS AS REQUIRED TO FURNISH A COMPLETE AND OPERATING SYSTEM. COORDINATE WITH FITS FOR OWNER PROVIDED EQUIPMENT.
- PROVIDE POWER FOR NEW MECHANICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO AHU, ERVS, PUMPS, EXHAUST FANS, UNIT HEATERS, ETC.

ELECTRICAL DRAWING LIST

E0.1	GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS LIST
E1.N1	ELECTRICAL LIGHTING PLAN - NORTH
E1.N2	ELECTRICAL POWER PLAN - NORTH
E1.N3	ELECTRICAL SECURITY PLAN - NORTH
E1.E1	ELECTRICAL LIGHTING PLAN - EAST
E1.E2	ELECTRICAL POWER PLAN - EAST
E1.E3	ELECTRICAL SECURITY PLAN - EAST
E2.N1	ELECTRICAL DEMO PLAN - NORTH
E2.E1	ELECTRICAL DEMO PLAN - EAST
E4.1	ELECTRICAL ENLARGED ELECTRICAL ROOMS
E5.1	ELECTRICAL DETAILS
E6.0	ELECTRICAL DEMO PARTIAL ONE-LINE DIAGRAM
E6.1	ELECTRICAL PARTIAL ONE-LINE DIAGRAM
E6.2	LOAD CALCULATIONS, EQUIPMENT, AND LIGHT FIXTURE SCHEDULES
E6.N1	PANEL SCHEDULES - NORTH
E6.E1	PANEL SCHEDULES - EAST

TELEPHONE/DATA NOTES

- INSTALLATION OF AN NEW CABLE SHALL BE IN ACCORDANCE WITH ACCEPTED EIA/TIA/BICSI AND NCS STANDARDS. CABLE TO BE INSTALLED SHALL CONFORM TO MEET THE REQUIREMENTS OF ICEA PUBLICATIONS S-80-576-1992 (REF.B1.6) AS TO SIZE, COLOR AND INSTALLATION.
- CONDUCTORS SHALL BE CABLED SO AS TO UNSURE AGAINST INDUCTION IN VOICE/DATA CIRCUITS. CROSSTALK ATTENUATION WITHIN THE CABLE SYSTEM SHALL BE IN EXCESS OF 80 DB THROUGHOUT THE FREQUENCY RANGE.
- ALL NEW JACKS AND DATA JACKS SHALL BE AT&T SYSTEM MAX CATEGORY 5E-COMPLIANT EIGHT POSITION RJ-45 NON-KEYED (EIA/TIA 568A). PROVIDE ID LABEL (BUILDING-CLOSET-PATCH PANEL-PORT) AT JACK AND PATCH PANEL.
- FOR THE TWO JACKS DESIGNATED FOR DATA, ONE 4 PAIR UNSHIELDED TWISTED PAIR 24 AWG STATION CABLE, BLUE AND YELLOW IN COLOR, SHALL BE INSTALLED FROM EACH JACK (IN ACCORDANCE WITH EIA/TIA 568 A STANDARD "T568A" AND 606) TO THE TELECOMMUNICATION OR DATA CLOSET AND SHALL BE OF A TYPE DESIGNED TO SUPPORT LEVEL FIVE DATA COMMUNICATION (NOT LESS THAN 100 MHZ/MPBS).
- FOR THE TWO JACKS DESIGNATED FOR VOICE, ONE CATEGORY 5E CABLE, WHITE IN COLOR, SHALL BE SPLIT BETWEEN THE 2 VOICE JACKS WITH THE WHITE/BLUE AND WHITE/ORANGE PAIR TERMINATING ON JACK ONE AND THE WHITE/GREEN AND WHITE/BROWN PAIR TERMINATING ON JACK TWO. SPECIFICALLY, ON JACK TWO, THE WHITE/GREEN PAIR WILL TERMINATE ON THE JACK ON THE PINS NORMALLY RESERVED FOR THE WHITE/BLUE PAIR AND THE WHITE/BROWN PAIR WILL TERMINATE ON THE PINS NORMALLY RESERVED FOR THE WHITE/ORANGE PAIR. THE PREVIOUSLY STATED TECHNICAL SPECIFICATIONS FOR CABLING AND JACKS APPLY HERE AS WELL.
- ALL NEW OUTLETS SHALL BE QUADPLEX JACKS WITH A QUADPLEX FLUSH MOUNTED FACEPLATE. THE TWO LEFT JACKS ARE DESIGNATED FOR DATA AND WILL BE (1) BLUE AND (1) YELLOW IN COLOR TO DISTINGUISH FROM THE TWO RIGHT JACKS DESIGNATED FOR VOICE WHICH WILL BOTH BE WHITE IN COLOR.
- AT THE TELECOMMUNICATION/DATA CLOSET 20 FEET OF CABLE SHOULD BE AVAILABLE FOR TERMINATION PURPOSES. THE DESIGNATED VOICE CABLE WILL BE WHITE IN COLOR TO DISTINGUISH IT FROM THE DATA CABLE WHICH WILL BE REQUIRED TO BE BLUE IN COLOR. IN ADDITION, ALL CABLES WILL BE MARKED WITH CORRESPONDING DESIGNATION NUMBERS ON EACH END.
- ALL NEW VOICE AND DATA CABLE/WIRING MUST BE INSTALLED IN CONDUIT, UNLESS OTHERWISE DIRECTED.
- EC SHALL USE FIRE PUTTY FOR SEALING FIRE RATED PENETRATIONS AND OPENINGS. FIRE SPRAY IS PROHIBITED.

Scale: AS NOTED

CONSULTANTS:

The Estopinal Group
PROFESSIONAL ENGINEERING FIRM
820 Jordan Street, Suite 507 tel. 318.424.3700
Shreveport, LA 71101 fax 318.424.3764

PROJECT MANAGERS AND ENGINEERS:

RAMESH T. MIRCHANDANI
License No. 30792
PROFESSIONAL ENGINEER
01/09/13

TNF A VETERAN OWNED COMPANY
3 EXECUTIVE COURT, UNIT 4
SOUTH BARRINGTON, IL 60010

Drawing Title
ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS

Approved Project Director

Project Title
RENOVATE ED + PRIMARY CARE

Location
**SHREVEPORT VAMC
510 EAST STONER AVE**

Date
01/09/13

Checked
RM

Drawn
TJH

Project Number
667-10-100

Building Number
1N, 1E

Drawing Number
EO.1

Dwg. 92 of 112

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs