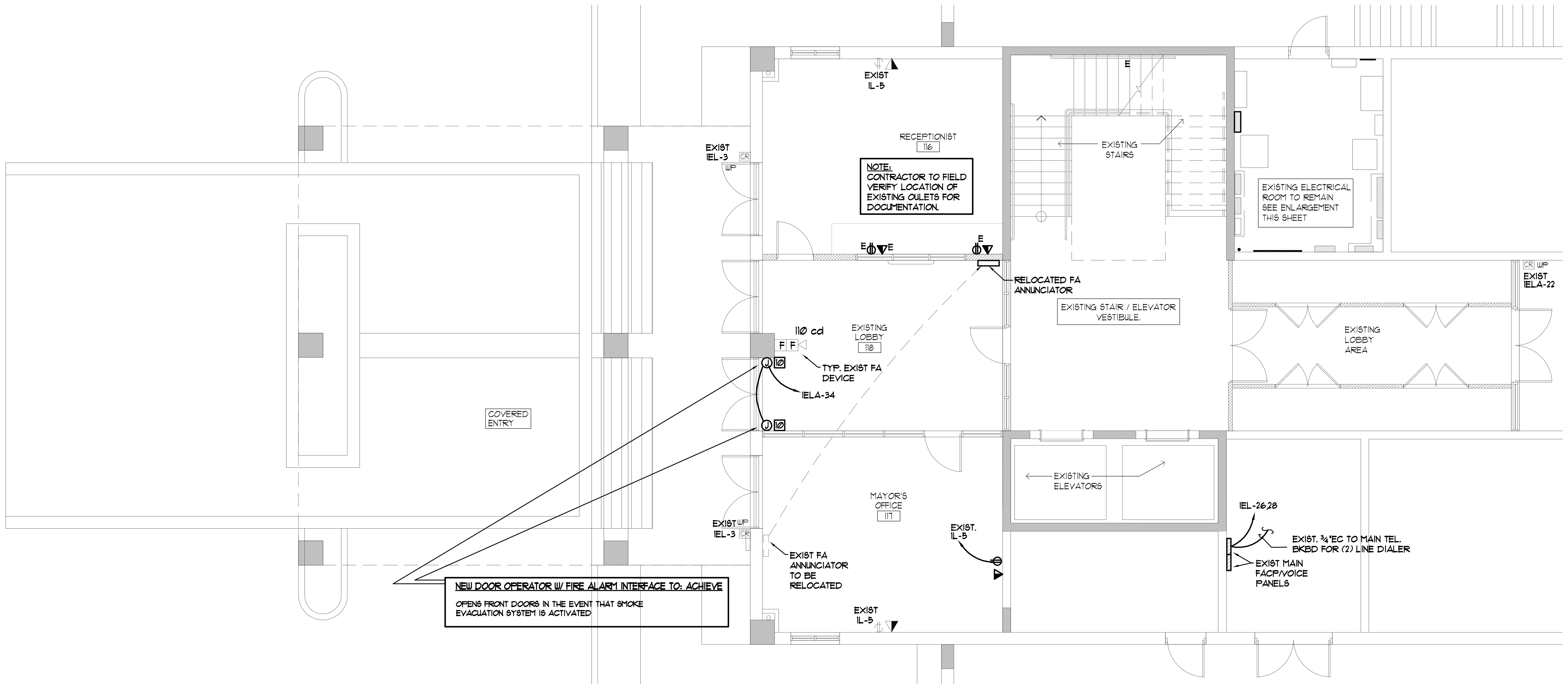
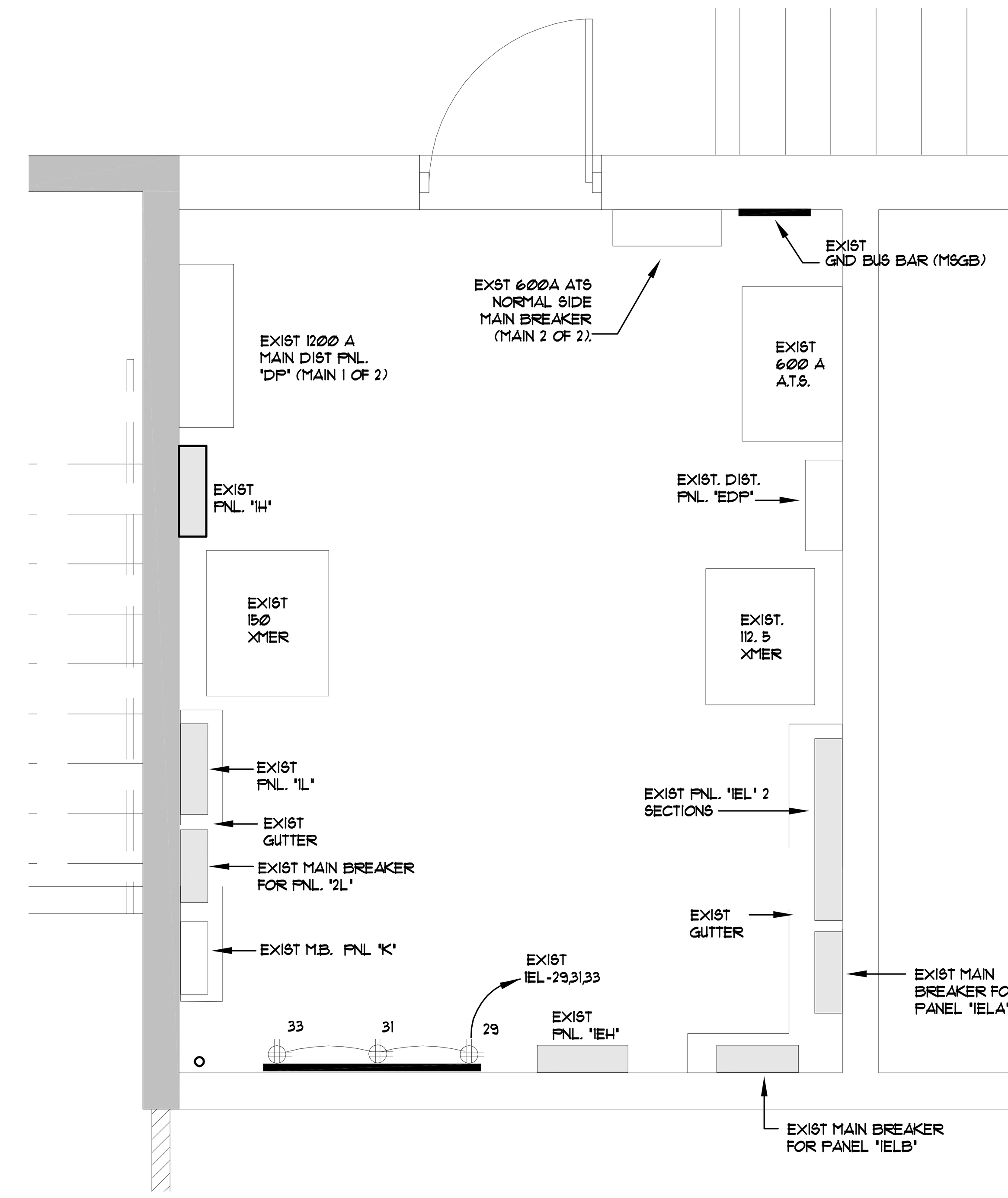
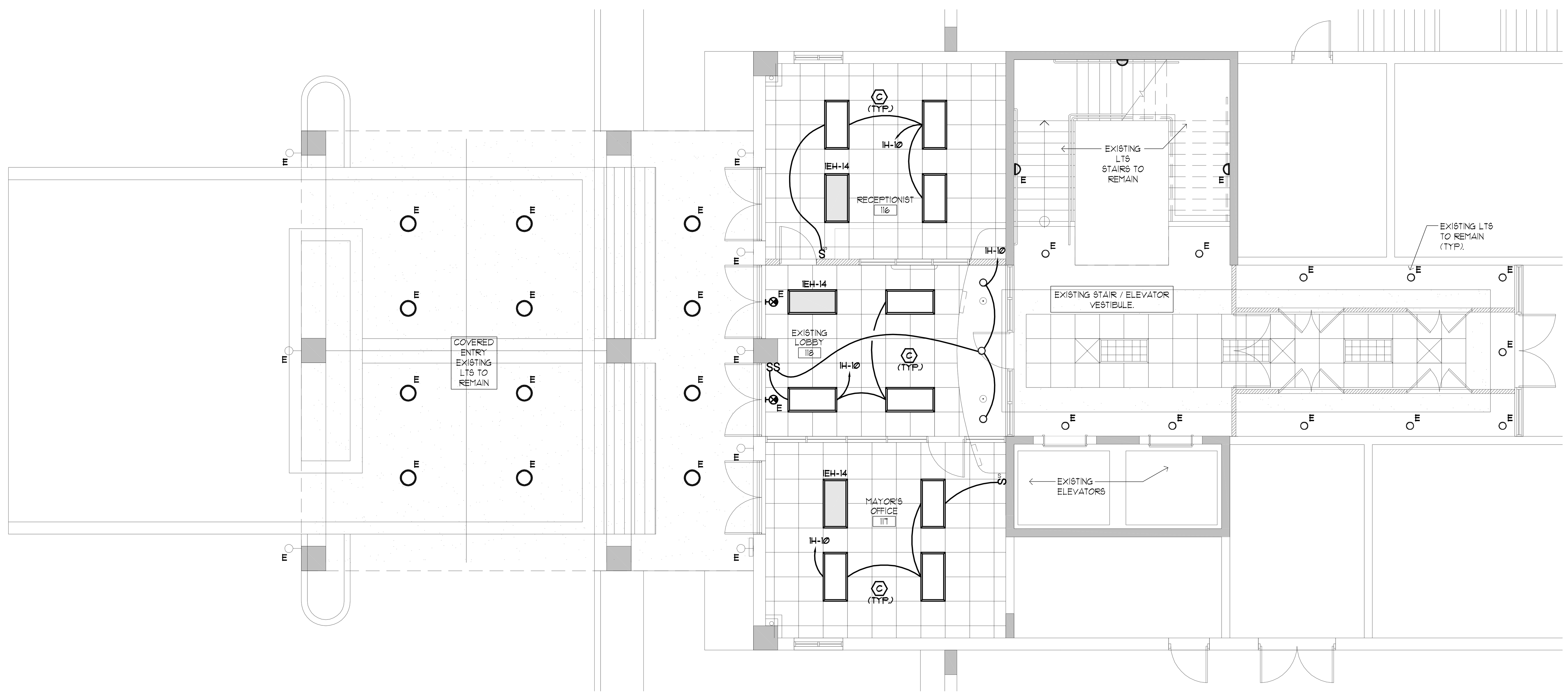


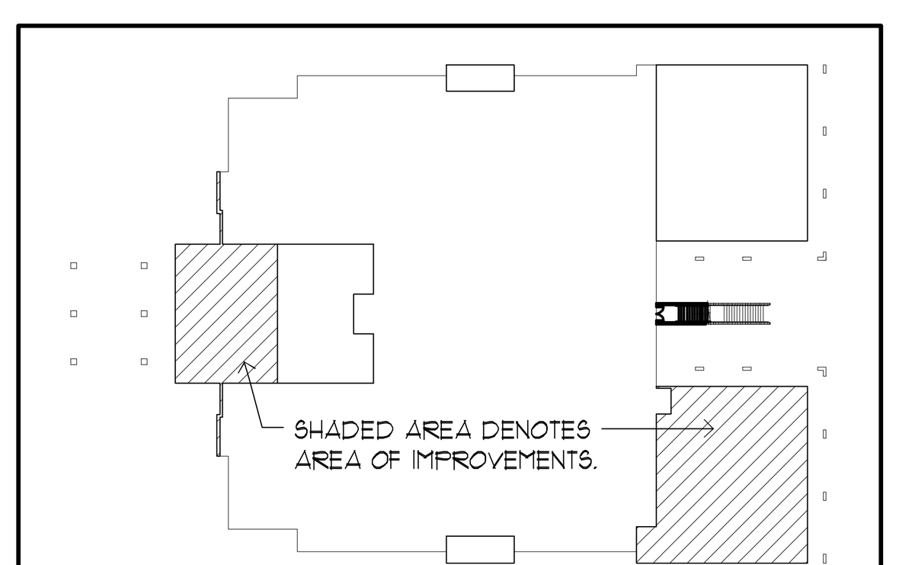
Lobby Area - Power Plan 3/16"
Ground Floor
NORTH



EXISTING ELECTRICAL ROOM 1/2"=1'
NOTE: ALL EQUIPMENT IS EXISTING



Lobby Area - Lighting Plan 3/16"
Ground Floor
NORTH



Building Key Plan N.T.S.
Ground Floor Areas of Improvements.

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

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DESIGN	DRAWN	DATE
VF/RR	VF/RR	04/04/14
JOB NUMBER		13-222

Architecture
Planning&
Urban Design
Space Planning
Interior Design
Corp. Lic. # AA-C001984
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INTERIOR ALTERATIONS FOR:
The Town of Medley - Florida
Municipal Services Facility
Owner: The Town of Medley
7777 NW 72nd Avenue
Medley, FL. 33166 Phone: (305) 887-9541

REVISIONS	BY

May 20 2014

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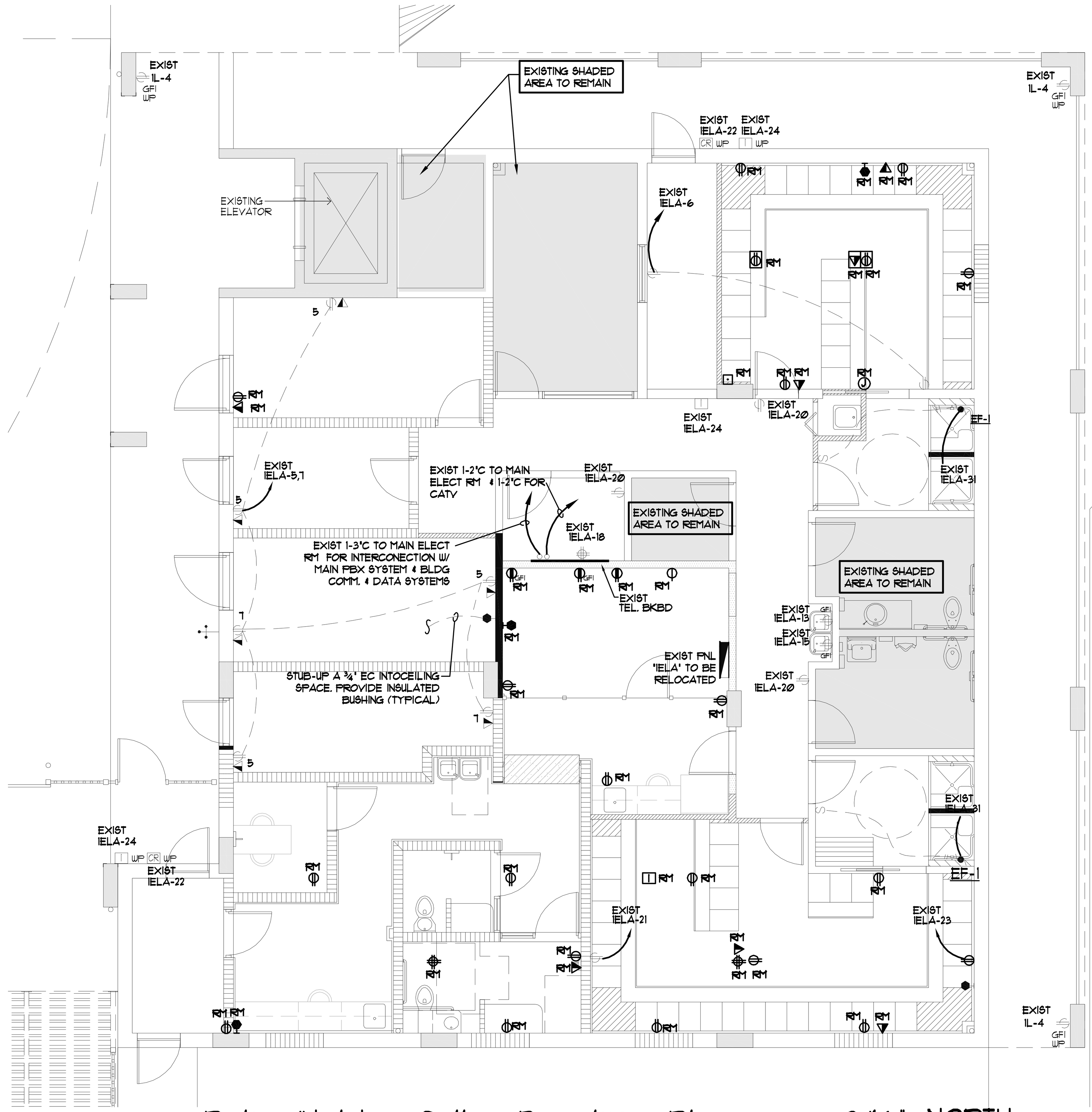
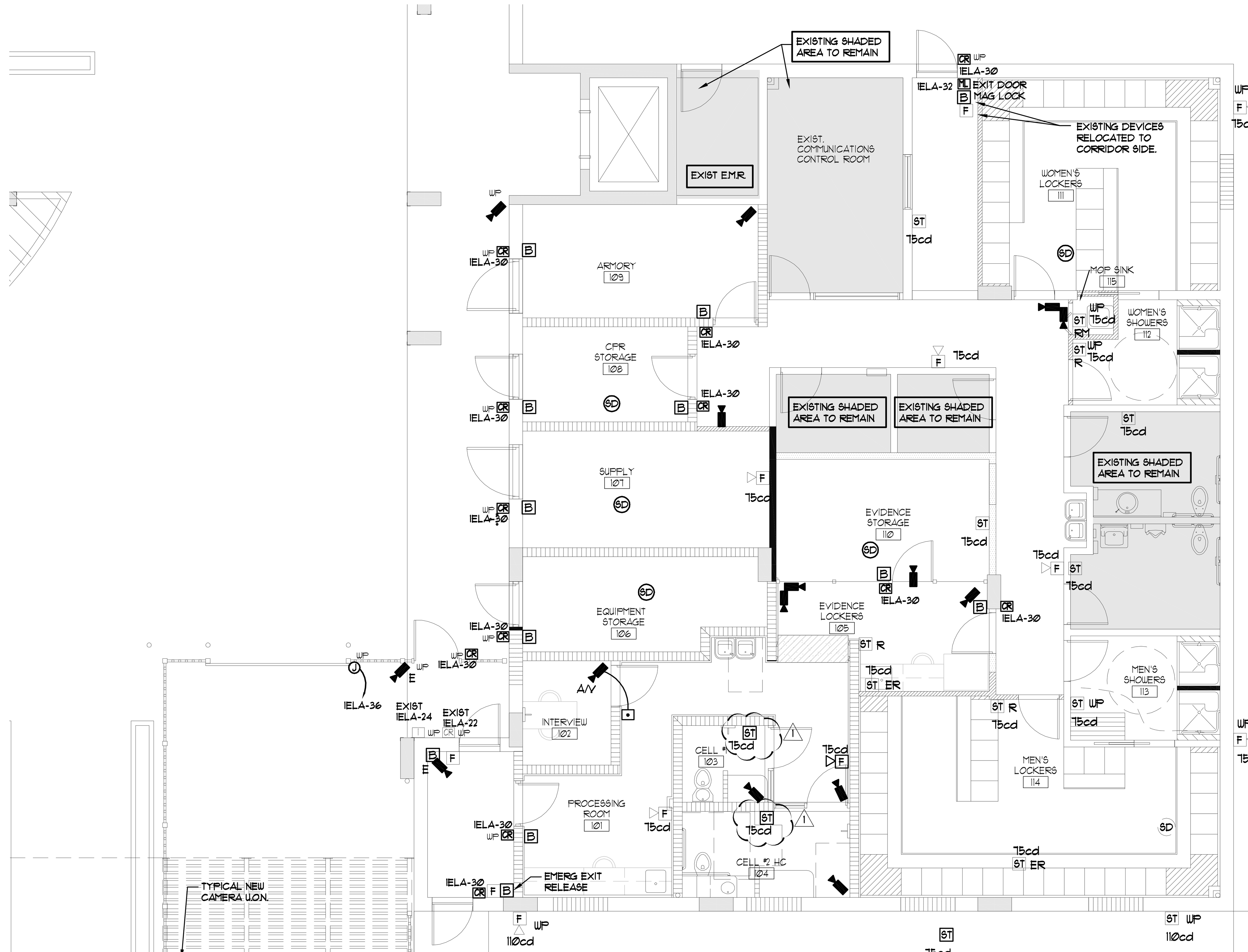
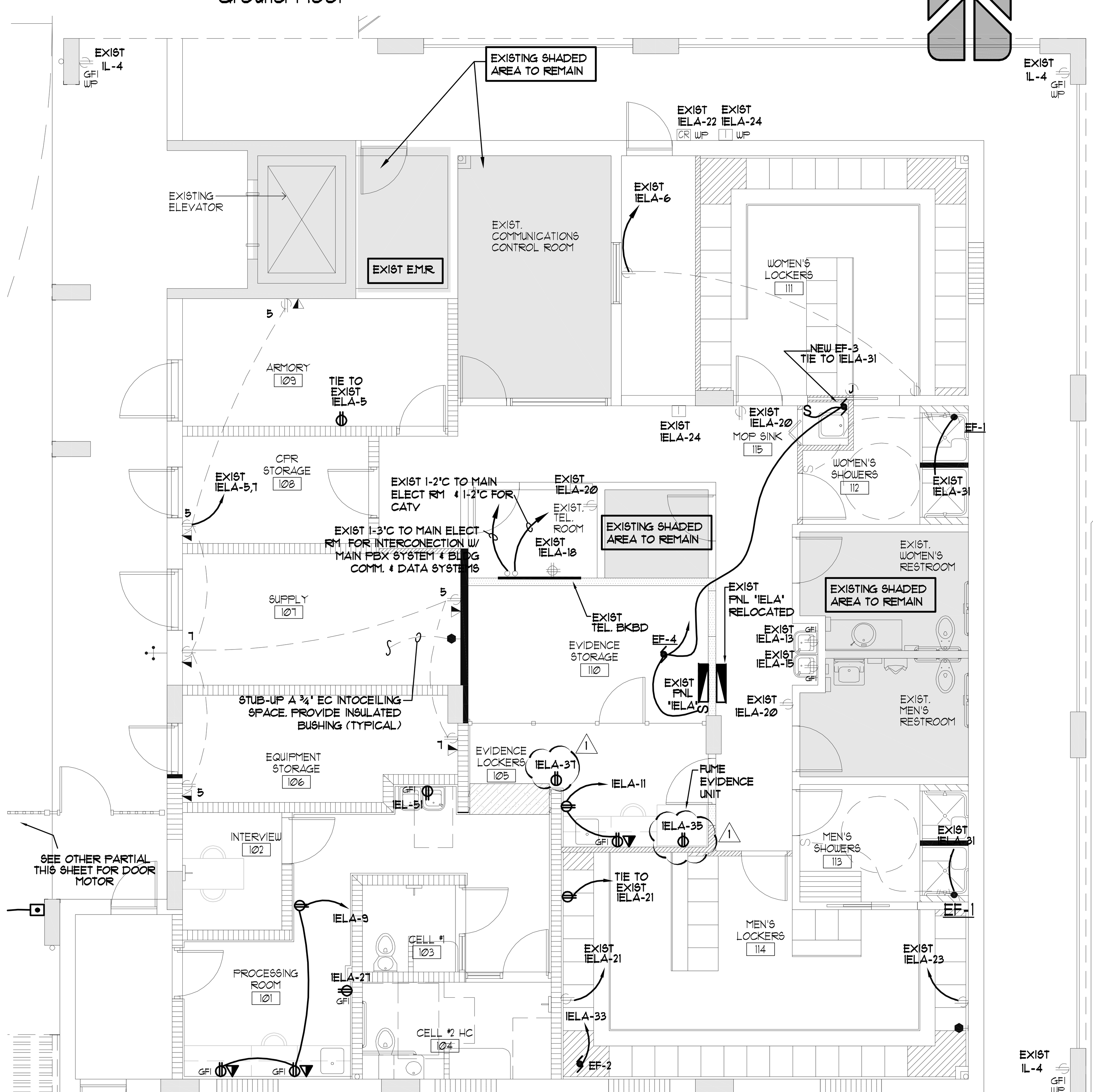


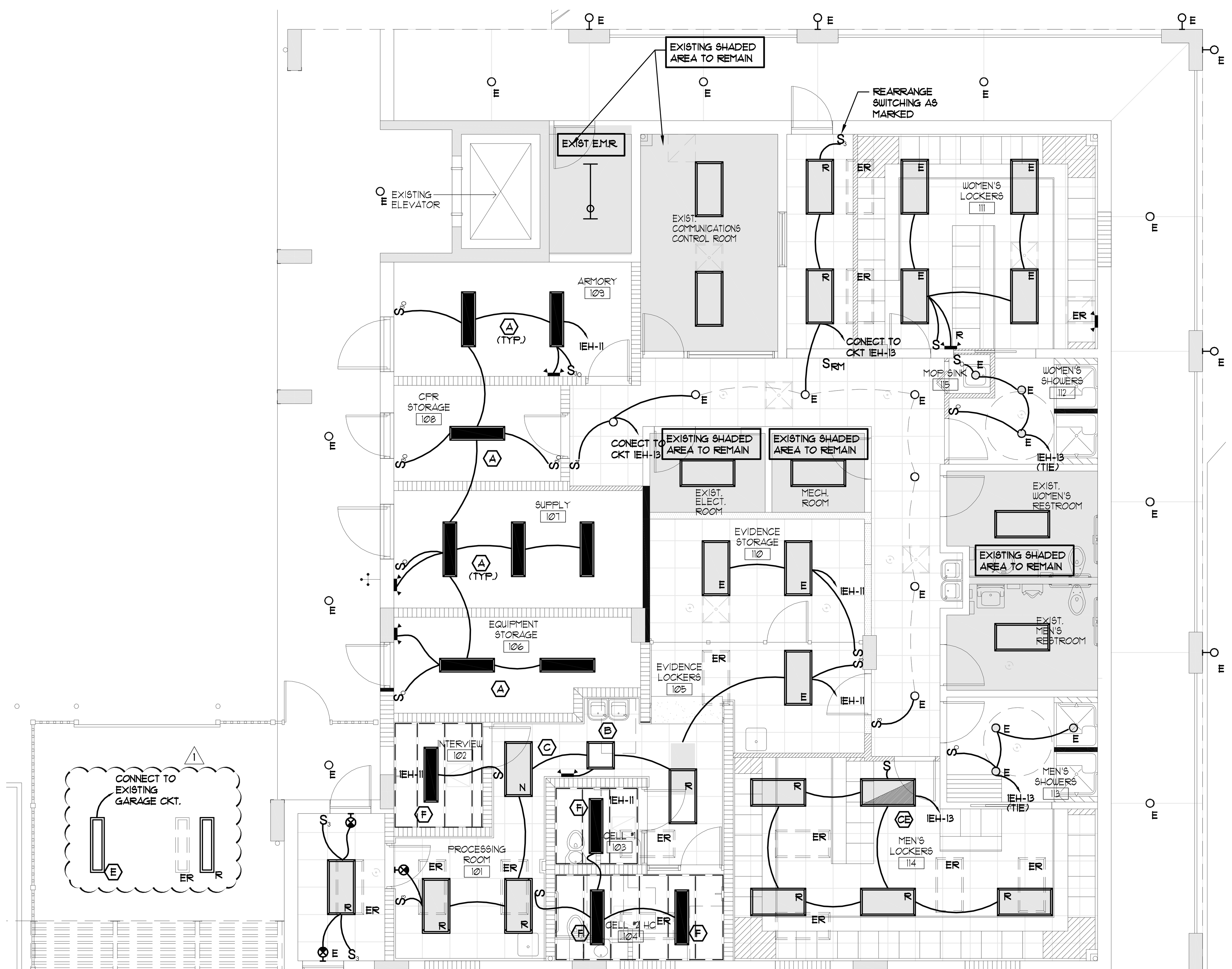
Police/Holding Cells - Demolition Plan 3/16"
Ground Floor
NORTH



Police/Holding Cells - Security & Fire Alarm Plan 3/16"
Ground Floor
NORTH



Police/Holding Cells - Power Plan 3/16"
Ground Floor
NORTH



Police/Holding Cells - Lighting Plan 3/16"
Ground Floor
NORTH

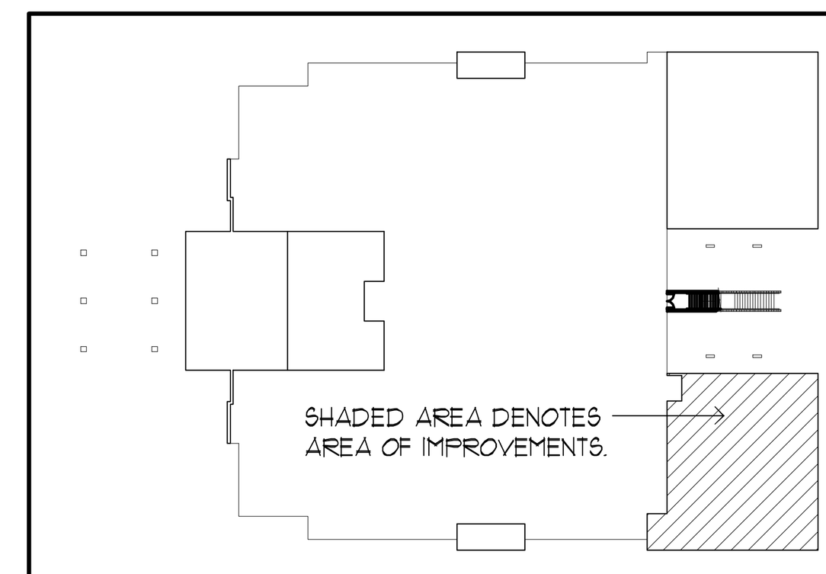
NOTE: TIE TO EXISTING LOCAL CIRCUITS IN THE AREA AS SHOWN

NOTE:
CARD READER SHALL INTERFACE WITH FIRE ALARM SYSTEM UPON ACTIVATION OF FACP CARD READER DOORS SHALL DE-ACTIVATE. RUN 1/2"C TO FACP FOR INTERFACING.

SECURITY LEGEND

- SECURITY CAMERA-PROVIDE 3/4"C W/ PW TO SECURITY PANEL LOCATION.
- A/V — A/V SECURITY CAMERA + AUDIO
- CR — CARD READER RUN 3/4"C W/ P.S. TO SECURITY WITH ELECTRIC STRIKE (TYP) PROVIDE SP/20A CKT ON ENERG. CKT WITH J.B. OF ACCESS DOOR.
- I — INTERCOM RUN 3/4"C TO SECURITY PANEL LOCATION.
- B — PUSH BUTTON. RELEASE FOR ACCESS CONTROL
- ● — ACTIVATE BUTTON FOR CCTV.

ELECTRICAL PLAN NOTE:
SEE E-3 FOR LEGEND OF SYMBOLS & ABBREVIATIONS



Building Key Plan N.T.S.
Ground Floor Areas of Improvements.

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THE TOWN OF MEDLEY · FLORIDA

REVISIONS	BY
1 05-05-14 B.D. COORD. COMM.	VF

May 20 2014

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GENERAL FIRE ALARM INSTALLATION NOTES

1.1 SCOPE

A. THE WORK COVERED BY THESE DRAWINGS INCLUDES THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE LIFE SAFETY SYSTEM AS SHOWN ON THE DRAWINGS AND AS HEREIN SPECIFIED.

B. THE COMPLETE INSTALLATION SHALL CONFORM TO THE APPLICABLE SECTIONS OF NFPA-72, LOCAL CODE REQUIREMENTS NATIONAL ELECTRICAL CODE, ANSI ELEVATOR CODE, AND ANSI HANDICAP CODE.

1.2 GENERAL

A. FURNISH AND INSTALL A COMPLETE LIFE SAFETY SYSTEM AS DESCRIBED HEREIN AND AS SHOWN ON THE PLANS: TO BE WIRED, CONNECTED, AND LEFT IN FIRST CLASS OPERATING CONDITION. THE SYSTEM SHALL USE CLOSED LOOP INITIATING DEVICE CIRCUITS WITH INDIVIDUAL ZONE SUPERVISION, INCOMING AND STANDBY POWER SUPERVISION.

B. ALL PANELS AND PERIPHERAL DEVICES SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER AND SHALL DISPLAY THE MANUFACTURER'S NAME ON EACH COMPONENT. THE CATALOGUE NUMBERS SPECIFIED UNDER THIS SECTION ARE THOSE OF NOTIFIER AND CONSTITUTE THE TYPE, QUALITY OF ALARM, MATERIAL, AND OPERATING FEATURES DESIRED.

2. TESTING

A. THE COMPLETE FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72 BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHAL. NFPA COMPLETION FROM SHALL BE SUPPLIED.

3. WARRANTY

A. THE CONTRACTOR SHALL WARRANT THE COMPLETED FIRE ALARM SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE COMPLETED AND CERTIFIED TEST OR FROM THE DATE OF FIRST BENEFICIAL USE.

WIRE LEGEND:

A = 2#18 FPL (DATA)(UNSHIELDED)(BLUE)
S = 2#14 FPL (STROBE)(UNSHIELDED)(RED)
P = 2#16 FPL (POWER)(UNSHIELDED)(RED)

ALL CONDUITS 1/2" EMT MINIMUM.40% FILLED MAX.

FIRE ALARM : BACKUP POWER REQUIREMENTS

1. ALL POWER SUPPLY OUTPUTS AND SIGNAL CIRCUITS SHALL BE LOADED A MAXIMUM OF 75% AT PEAK CURRENTS TO ALLOW FOR FUTURE EXPANSION.
2. PROVIDE VOLTAGE DROP CALCULATIONS UPON SUBMITTAL AND BATTERY CALCULATIONS WITH 24 HOURS OF STANDBY AND 5 MINUTES IN ALARM.
3 MONITOR ALL POWER SUPPLY OUTPUTS FOR VOLTAGE LOSS, GROUNDS AND SHORTS.

FIRE ALARM NOTES

1. CONDUITS TO BE ¾" MINIMUM AND SIZED BY THE ELECTRICAL CONTRACTOR AS PER THE N.E.C. AND FILLED TO A 40% MAXIMUM.
2. ALL FIRE ALARM INITIATING, SIGNAL AND CONTROL CIRCUITS ARE POWER LIMITED.
3. ALL FIRE ALARMS DEVICES ARE U.L. LISTED AND COMPATABLE.
4. WIRE MANUFACTURERS AND SPECIFIC CABLE NUMBERS TO BE APPROVED BY THE ENGINEER OF RECORD.
5. THIS ANALOG/DIGITAL MULTIPLEX SYSTEM SHALL EMPLOY INTELLIGENT CLASS 'B' INITIATING AND SIGALLING LINE SUPERVISION.
6. INSTALL A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, NFPA CODES AND ALL LOCAL ORDINANCES.
7. MOUNT ALL CONTROL RELAYS WITHIN 3' OF THE SHUTDOWN POINT.
8. MOUNT ALL STROBE UNITS AT 80" AFF. TO MEET AD.A CODES.
9. UPON SUBMITTAL PROVIDE BATTERY CALCULATIONS FOR EACH POWER SUPPLY (60 HOURS OF STANDBY AND 5 MINUTES OF ALARM) AND VOLTAGE DROP CALCULATIONS FOR EACH SIGNAL CIRCUIT. THE SYSTEM SHALL BE A REMOTE SUPERVISING STATION FIRE ALARM SYSTEM. SYSTEM AND THE REQUIRED MONITORING BY AN AGENCY SHALL BE PROVIDED.
10. ALL STROBES TO BE SELF-SYNCRONIZED BY CIRCUIT TO AVOID EPILECTIC SEIZURES ON PHOTO SENSITIVE PERSONS.
11. ALL AUDIBLE SIGNALS TO BE THE AMERICAN NATIONAL STANDARD EMERGENCY EVACUATION SIGNAL (3-3-3 TEMPORAL PATTERN).
12. ALL POWER SUPPLY OUTPUTS, INTELLIGENT LOOPS AND SIGNAL CIRCUITS TO BE LOADED A MAXIMUM OF 75% TO ALLOW FOR FUTURE CHANGES OR EXPANSIONS.
13. PROVIDE 4 DRY CONTACT CIRCUITS FOR ALARM MONITORING SERVICE (ALARM, SYSTEM TROUBLE, SUPERVISORY AND WATERFLOW).
14. ALL TAMPER & FLOW SWITCHES (NOT SHOWN) SHALL BE MONITORED BY FIRE ALARM SYSTEM. SEE FIRE SPRINKLER DRAWINGS FOR EXACT LOCATIONS. COORDINATE DEVICES AT PIV & BACK FLOR PREVENTER.

SEQUENCE OF OPERATIONS

1) ALL THE SIGNAL CIRCUITS SHALL ACTIVATE. A. AN ALARM SIGNAL SHALL BE SENT TO THE MONITORING COMPANY.

2) UPON OPERATION OF A TAMPER SWITCH, THE INDIVIDUAL LOCATION MESSAGE SHALL BE DISPLAYED ON THE FIRE ALARM CONTROL PANEL LCD DISPLAY, THE PRINTER AND THE ANNUNCIATOR AS A 40 CHARACTER MESSAGE.
A. A SUPERVISORY SIGNAL SHALL BE SENT TO THE MONITORING COMPANY.

FIRE ALARM DEVICE LEGEND

SYMBOL	DESCRIPTION	CATALOG NUMBER	MOUNTING HEIGHT
SD	SMOKE DETECTOR	SIGA-PS / SIGA-SB	
HD	HEAT DETECTOR	SIGA-HRS	
F	PULL STATION	SIGA-278	48" AFF TO BOTTOM
CR	CONTROL RELAY	SIGA-CR	
CC1	OUTPUT MODULE	SIGA-CC1	
CC1S	SYNCHRONIZE OUTPUT MODULE	SIGA-CC1S	
CT1	CONTROL MODULE	SIGA-CT1	
IM	ISOLATOR MODULE	SIGA-IM	
WT	WATERFLOW/TAMPER	SIGA-WTM	
MR	MULTI-VOLTAGE CONTROL RELAYS	MR-101/T	
ST 75CD	STROBE (75CD)	G1-VM	80" AFF TO BOTTOM
H 75CD	HORN/STROBE (75CD)	G1-HDVM	80" AFF TO BOTTOM
ST 110CD WP	STROBE (110CD)WP	CS-405-8A-T	80" AFF TO BOTTOM
FACP	FIRE ALARM CONTROL PANEL	i0500	60" AFF TO TOP
ANN	FIRE ALARM ANNUNCIATOR	RLCD	
BPS	BOOSTER POWER SUPPLY	BPS10A	72" AFF TO TOP
	FIRE ALARM FLOW BELL	439D-6AW(R)	
PIV	POST INITIATION VALVE	BY OTHER	
BFP	BACKFLOW PREVENTOR	BY OTHER	
FS	FLOW SWITCH	BY OTHER	
TS	TAMPER SWITCH	BY OTHER	
TSS	LOW VOLTAGE SURGE PROTECTOR	DRDC24	
VSS	VOLTAGE SURGE PROTECTOR	ACP100BWN3	

GENERAL ELECTRICAL NOTES:

1.0 GENERAL
1.1 WORK INCLUDED UNDER THIS DIVISION CONSISTS OF PROVIDING LABOR MATERIALS, APPLIANCES, EQUIPMENT, TOOLS, TRANSPORTATION, SUPERINTENDENCE AND SERVICES REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND PROPER OPERATING ELECTRICAL SYSTEMS AS SPECIFIED, INDICATED, AND ELSEWHERE REQUIRED.
1.2 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), FLORIDA BUILDING CODE (FBC) AND ALL OTHER APPLICABLE CODES IN THEIR LATEST EDITION.

2.0 EXAMINATION OF SITE
2.1 BIDDER IS ADVISED TO VISIT THE SITE AND ACQUAINT HIMSELF WITH WORKING CONDITIONS. CONTRACTOR SHALL ACCEPT CONDITIONS AS THEY EXIST ON BID DATE.

3.0 MATERIALS
3.1 MATERIALS, EQUIPMENT AND APPLIANCES SHALL BE NEW AND OF BEST QUALITY UNLESS OTHERWISE INDICATED.
3.2 DETERMINE THAT PROPOSED EQUIPMENT CAN BE INSTALLED IN SPACE AVAILABLE. INSTALL EQUIPMENT SO PARTS ARE READILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR DISMANTLING EQUIPMENT TO OBTAIN ENTRANCE INTO BUILDING.
3.3 MATERIALS SHALL BEAR UNDERWRITER'S LABEL WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED AND LISTED BY UNDERWRITER'S LABORATORIES, INC.
3.4 MATERIALS, EQUIPMENT AND APPLIANCES SHALL CONFORM TO LATEST STANDARDS OF: AMCA, ANSI, ASTM, NEMA, ARI & NFPA.
3.5 USE EXTREME CARE IN SELECTION AND INSTALLATION OF EQUIPMENT TO INSURE THAT NOISE AND VIBRATION ARE HELD TO ABSOLUTE MINIMUM. CORRECT OBJECTIONABLE NOISE AND VIBRATION. PROVIDE ELIMINATORS REQUIRED FOR PROPER RESULTS.

4.0 PERMITS, FEES AND CODES
4.1 COST FOR FEES, PERMITS, TESTS AND INSPECTIONS SHALL BE PAID FOR BY THIS CONTRACTOR.
4.2 INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS INCLUDING: F.B.C., N.E.C., N.F.P.A., O.S.H.A. AND STATE, COUNTY AND CITY DEPARTMENTS OF HEALTH.

5.0 COOPERATE WITH OTHER TRADES
5.1 MAKE KNOWN ARRANGEMENT OF WORK AND CHECK ARRANGEMENT AND LOCATION OF OTHER TRADES TO AVOID CONFLICTS. EXAMINE DRAWINGS OF OTHER TRADES TO DETERMINE EXACT EQUIPMENT LOCATIONS FOR ROUGH IN.

6.0 OPERATING INSTRUCTIONS
6.1 CONTRACTOR SHALL PROVIDE TO OWNER OPERATION AND MAINTENANCE MANUALS. CONTRACTOR SHALL INSTRUCT OWNER OR OWNER'S REPRESENTATIVE IN OPERATION OF ALL EQUIPMENT. TYPE WRITTEN LABELS SHALL BE PLACED IN PANEL BOXES DESIGNATING CIRCUIT LAYOUTS.

7.0 INSPECTION
7.1 NOTIFY OWNER TWENTY-FOUR HOURS IN ADVANCE WHEN PIPING OR EQUIPMENT IS TO BE TESTED, BEFORE PIPING IS INSULATED OR CONCEALED, AND BEFORE TRENCHES ARE BACKFILLED.
7.2 FAILING TO COMPLY WITH THE ABOVE, CONTRACTOR SHALL UNCOVER AND RETEST LINES, REPAIRING DAMAGE TO OTHER CONTRACTOR'S WORK, AS WELL AS HIS OWN.
7.3 BEFORE REQUESTING FINAL PAYMENT, INSPECT INSTALLATION TO ASSURE THAT WORK IS COMPLETE AND REQUIREMENTS OF CONTRACT HAVE BEEN FULFILLED.

8.0 CUTTING AND PATCHING
8.1 UNLESS OTHERWISE INDICATED, DO NO MORE CUTTING AND PATCHING THAN REQUIRED FOR INSTALLATION OF WORK.
8.2 CUTTING OF STRUCTURAL MEMBERS OR EXPOSED SURFACE OF CONCRETE BLOCK WILL NOT BE PERMITTED.

9.0 MATERIALS AND EQUIPMENT

9.1 CONDUCTORS & CONDUIT: CONDUCTORS SHALL BE THWN COPPER. CONDUIT SHALL PVC RIGID UNDERGROUND AND EMT ABOVE GROUND.

9.2 RECEPTACLES, SWITCHES & TELEPHONE OUTLETS: PROVIDE DEVICES EQUAL TO LEVITON – DECORA STYLE, WHITE ALL RETAIL AND PUBLIC AREAS SHALL BE PROVIDED WITH COMMERCIAL GRADE

9.3 DATA OUTLETS: PLATES TO BE EQUAL TO THE TELEPHONE OUTLET PLATES

9.4 PANELBOARDS & SWITCHBOARDS:
A. GENERAL: INTERRUPTING CAPACITY RATINGS SHALL BE VERIFIED AND BASED ON THE AVAILABLE SYMMETRICAL FAULT CURRENT GIVEN BY THE POWER COMPANY UPON LOCATION & INSTALLATION OF VAULT & TRANSFORMER.
B. DIRECTORY: COMPLETE AT END OF JOB, TYPEWRITTEN.
C. FINISH: ANSI #61 ENAMEL OVER A RUST INHIBITING TREATMENT AFTER FABRICATION AND BEFORE ASSEMBLY. AFTER INSTALLATION, AND BEFORE ACCEPTANCE BY OWNER, ASSEMBLY SHALL BE PAINTED WITH A RUST INHIBITING PAINT (COLOR SELECTED BY ARCHITECT).
D. NAMEPLATES: PROVIDE A LAMACOID NAMEPLATE WITH 5/16" LETTERS ENGRAVED ON FRONT FACE SHOWING PANEL NAME, VOLTAGE AND PANEL RATING. COORDINATE TO GIVE SAME NAME AS SHOWN ON PANELBOARD SCHEDULE.
E. MANUFACTURERS AND SPECIFICATIONS:
SWITCHBOARDS: EQUAL TO GE SPECTRA SERIES WITH BOLT ON BREAKERS
PANEL BOARDS: EQUAL TO GE AQ

9.5 MAIN CIRCUIT BREAKERS :
A. GENERAL: INTERRUPTING CAPACITY RATINGS SHALL BE VERIFIED AND BASED ON THE AVAILABLE SYMMETRICAL FAULT CURRENT GIVEN BY THE POWER COMPANY UPON LOCATION & INSTALLATION OF VAULT & TRANSFORMER.
B. MANUFACTURERS AND SPECIFICATIONS:
EQUAL TO GE POWER BREAK W/ PHASE FAILURE RELAY & TVSS
C. SHUNT TRIPS SHALL BE PROVIDED ON ALL 5 MAINS IN THE ELECTRICAL ROOM WITH INTERCONNECTION TO REMOTE PUSH BUTTONS TO BE LOCATED AT THE FIRE COMMAND CENTER.
D. TVSS EQUAL TO GE TRANQUELL ME (130kA/phase) SHALL BE PROVIDED AT ALL MAINS IN THE ELECTRICAL ROOM AND OTHER PANELS IN THE ELECTRICAL ROOM.

9.6 LOAD CENTERS: FOR APARTMENT UNITS
EQUAL TO GE POWERMARK GOLD

9.7 FUSIBLE SWITCHES: ELEVATORS AND HVAC EQUIPMENT
EQUAL TO GE SPEC-SETTER HVY DUTY

9.8 METER CENTERS AND MAIN DEVICES:
EQUAL TO GE METER MOD WITH THE DESCRIPTIONS AS INDICATED ON THE RISER DIAGRAM SHEET.
MAINS CONNECTED TO THE BUS DUCT SHALL BE EQUAL TO GE PTO.

9.9 BUS DUCTS:
EQUAL TO GE SPECTRA SERIES BUSWAY – ALUMINUM WITH INTEGRAL GROUND

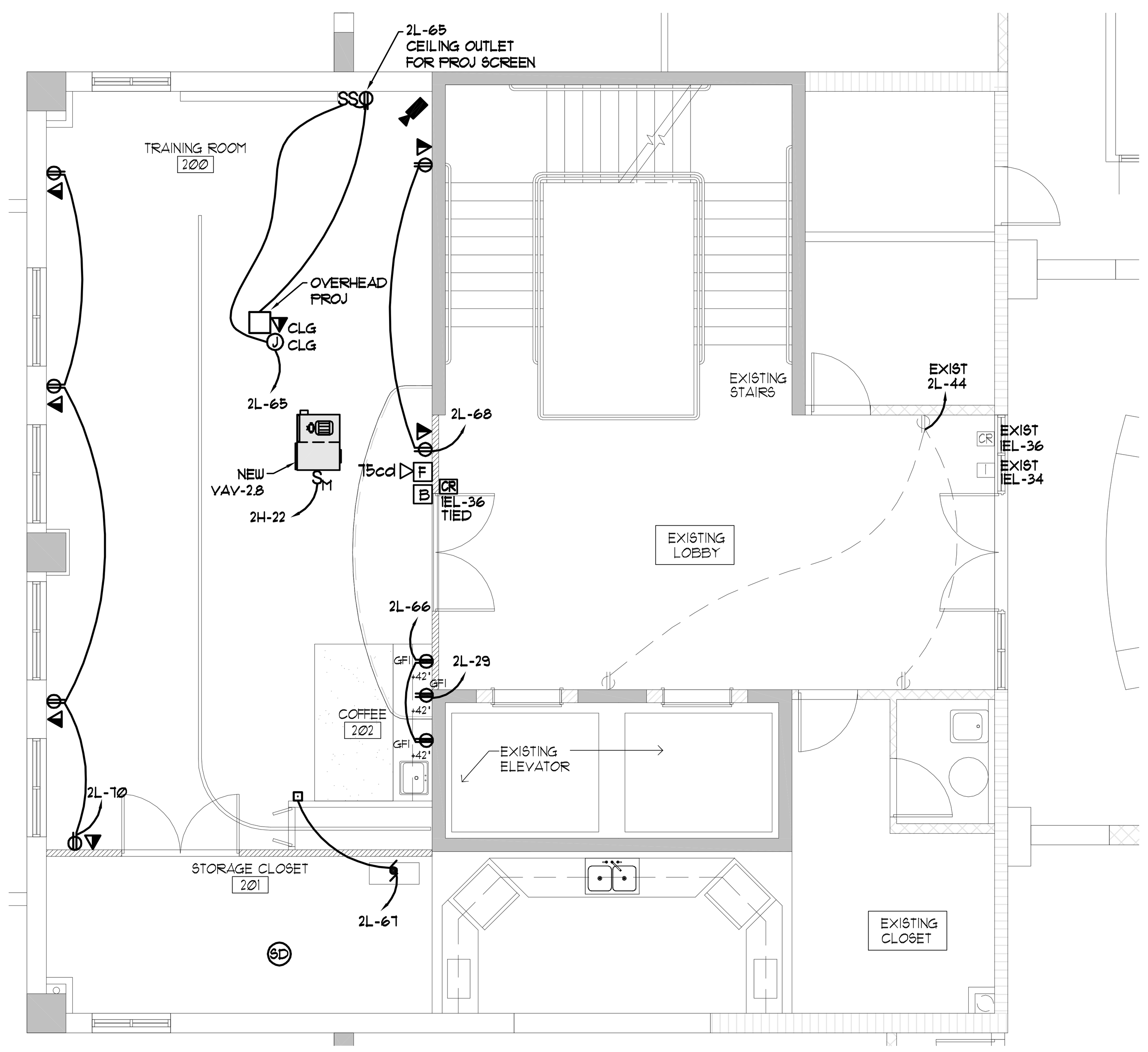
10.0 FUSES
A. SUPPLY AND INSTALL ALL FUSES IN EACH FUSED DEVICE.
B. ALL AIR CONDITIONING AND KITCHEN EQUIPMENT SHALL BE FUSED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
C. INSTALL LABELS IN ALL FUSED DEVICES INDICATING PROPER SIZE FUSE TO USE.

11.0 MISCELLANEOUS
11.1 ALL EMPTY CONDUIT TO BE SUPPLIED WITH NYLON PULL WIRE.
11.2 ALL FLEX CONDUIT SHALL HAVE "TITE-BITE" CONNECTORS.
11.3 ELECTRICAL CONTRACTOR TO INSTALL AND WIRE OUTLETS IN FIXTURES WHERE SHOWN ON DRAWINGS – OUTLETS TO BE INSTALLED IN FIXTURES AFTER FIXTURE INSTALLATION.
11.4 ALL DEDICATED CIRCUITS SHALL BE LABELED AS SUCH AT OUTLET.

12.0 LIGHT FIXTURES:
A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING FIXTURES AS SPECIFIED ON DRAWINGS WITH DEVELOPER AND/OR ARCHITECT APPROVAL. VERIFY BEFORE PURCHASE AND INSTALLATION.
B. LAMPS: ALL LAMPS USED ON THIS PROJECT SHALL BE NEW, DELIVERED TO THE JOB SITE IN THE ORIGINAL PACKING CASES AND SLEEVES AND SHALL BE OF THE SAME MANUFACTURER UNLESS OTHERWISE SPECIFIED.
C. BALLAST: ALL BALLASTS SHALL BE RATED TO OPERATE AT THE SERVICE VOLTAGE AS SHOWN AND AS SPECIFIED, PLUS OR MINUS THE DEVIATIONS WITH THE ELECTRIC SERVICE COMPANY IS ALLOWED BY FRANCHISE.

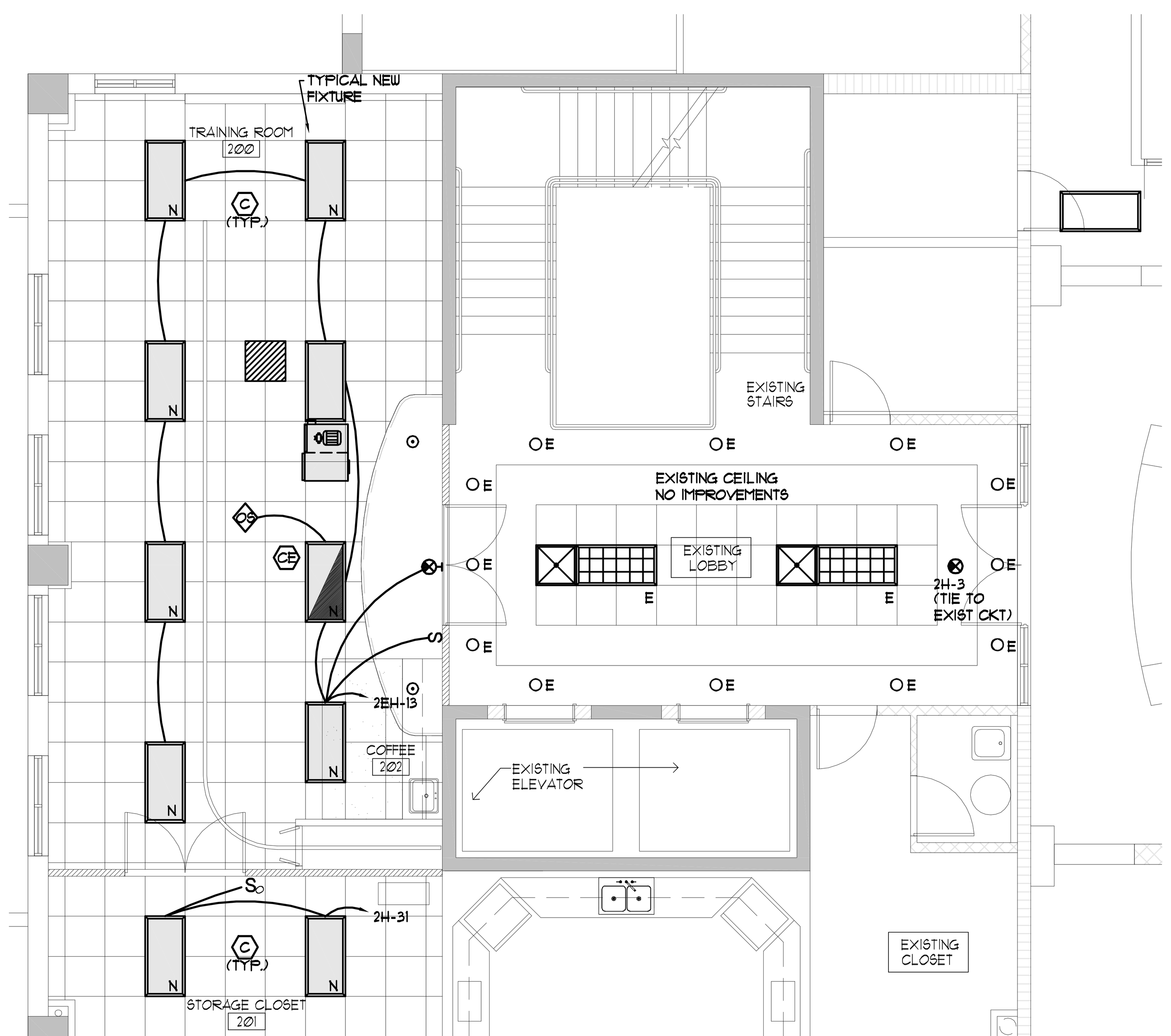
ELECTRICAL SYMBOL LIST

	3 W. GROUNDED DUPLEX RECEPTACLE 20 A. 150 V. M.H. + 15" A.F.F.
	3 W. GROUNDED DEDICATED RECEPTACLE 20 A. 150 V. M.H. + 15" A.F.F.
	3 W. GROUNDED SINGLE RECEPTACLE 30 A. 208 V. M.H. + 15" A.F.F.
J	JUNCTION BOX CEILING OR FLOOR MOUNTED
J	JUNCTION BOX WALL MOUNTED M.H. AS DIRECTED
◀	TELEPHONE OUTLET M.H. + 15" A.F.F. OR AS INDICATED. (3/4" CONDUIT ONLY TO 6" ABOVE CEILING– NO WIRING)
◁	DUAL NETWORK DATA OUTLET M.H. + 15" A.F.F. OR AS INDICATED. (1" CONDUIT ONLY TO 6" ABOVE CEILING– NO WIRING)
	TELEVISION OUTLET M.H. +15" A.F.F.
T	THERMOSTAT M.H. + 50" A.F.F.(REFER. TO A/C DWGS FOR LOCATION)
	MOTOR OUTLET
	ELECTRICAL PANEL
▨	SWITCHBOARD
	FUSED DISCONNECT SWITCH W/DUAL ELEMENT FUSES
	PULL OUT BOX W/ FUSES, FUSED PER EQ. NAME PLATE
3○b	INCANDESCENT FIXTURE OUTLET CEILING MOUNTED. NUMBER INDICATES CIRCUIT, LETTER INDICATES SWITCHING ARRANGEMENT
	INCANDESCENT FIXTURE OUTLET WALL MOUNTED M.H. AS INDICATED
	FLUORESCENT FIXTURE OUTLET STRIP
	FLUORESCENT 3 LAMPS F32T8 FIXTURE EXISTING TO BE RELOCATED, REPAIRED & RELAMPED. REPLACE & ADD AS NEEDED
	FLUORESCENT FIXTURE OUTLET CEILING MOUNTED STRIP CONNECTED TO EMERGENCY CIRCUIT OR NIGHT LIGHT CIRCUIT
	EMERGENCY LIGHT WITH BATTERY BACK UP
	EXIT LIGHT CEILING MOUNTED ARROW INDICATES DIRECTION OF EGRESS
	EXIT LIGHT WALL MOUNTED ARROW INDICATES DIRECTION OF EGRESS
S	SINGLE POLE TOGGLE SWITCH M.H. + 50" A.F.F.
S_3	THREE-WAY SWITCH M.H. + 50" A.F.F.
S_4	FOUR-WAY SWITCH M.H. + 50" A.F.F.
SD	DIMMER SWITCH M.H. + 50" A.F.F., FOR DIMMER SIZE SEE DIMMER SCHEDULE
	FLEXIBLE CONNECTION.
	HOME RUN TO PANEL. HASH MARKS INDICATE NUMBER OF WIRES. NO MARKS INDICATE TWO WIRES. GROUND WIRE NOT INDICATED.PROVIDE AS REQ'D BY N.E.C.
SD	SMOKE DETECTOR DEVICE. ELECTRICAL
A.F.F.	ABOVE FINISHED FLOOR.
G.F.I.	GROUND FAULT INTERRUPTER
W.P.	WEATHER PROOF.
A.G.	ABOVE GRADE.
M.H.	MOUNTING HEIGTH.
EM.	CONNECTED TO EMERGENCY SYSTEM.
N.F.	NON-FUSED
40/60	60 A. RATING FUSED AT 40 A. DUAL ELEMENT FUSES.
E	EXISTING
N	NEW IF LABELED OR NO DESIGNATION W/ LIGHT FIXTURE LABEL
RM	TO REMOVE
R	RELOCATED
ER	EXISTING TO BE RELOCATED



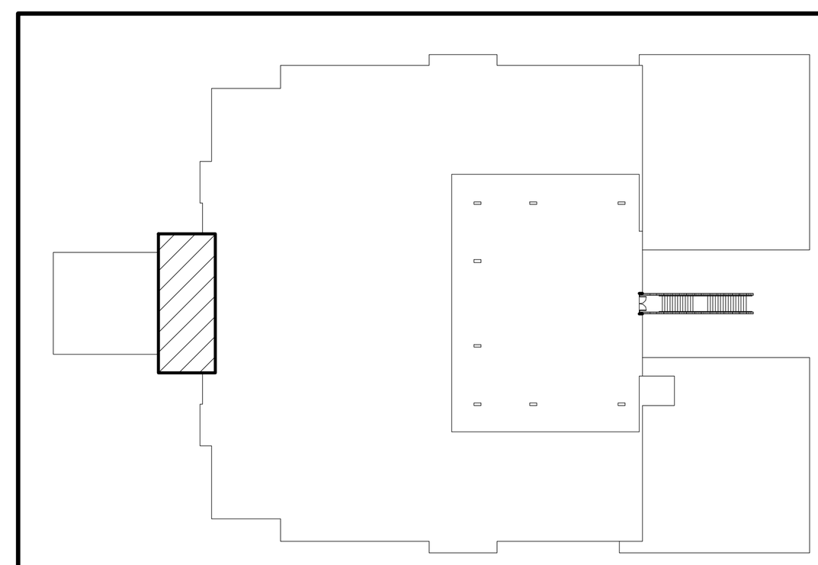
Training Room - Power Plan 3/16"
Second Floor

NORTH



Training Room - Lighting Plan 3/16"
Second Floor

NORTH



Building Key Plan N.T.S.
Second Floor

Architecture
Planning&
Urban Design
Space Planning
Interior Design
Corp. Lic. # AA-C001984

Rodriguez Pereira
Architects, Inc.
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Phone: (305) 592-8045 FAX: (305) 592-5756
WWW.RODRIGUEZPEREIRA.COM

INTERIOR ALTERATIONS FOR:
The Town of Medley - Florida
Municipal Services Facility
Owner: The Town of Medley
7777 NW 72nd Avenue
Medley, FL. 33166 Phone: (305) 887-9541

REVISIONS	BY

May 20 2014

NOT VALID FOR CONSTRUCTION UNLESS SIGNED & SEAL IN THIS BOX & ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS.

ANTONIO FRANYIE
PE #11640 MECH
VIVIANA FRANYIE
PE #49985 ME
FRANYIE ENGINEERS INC.
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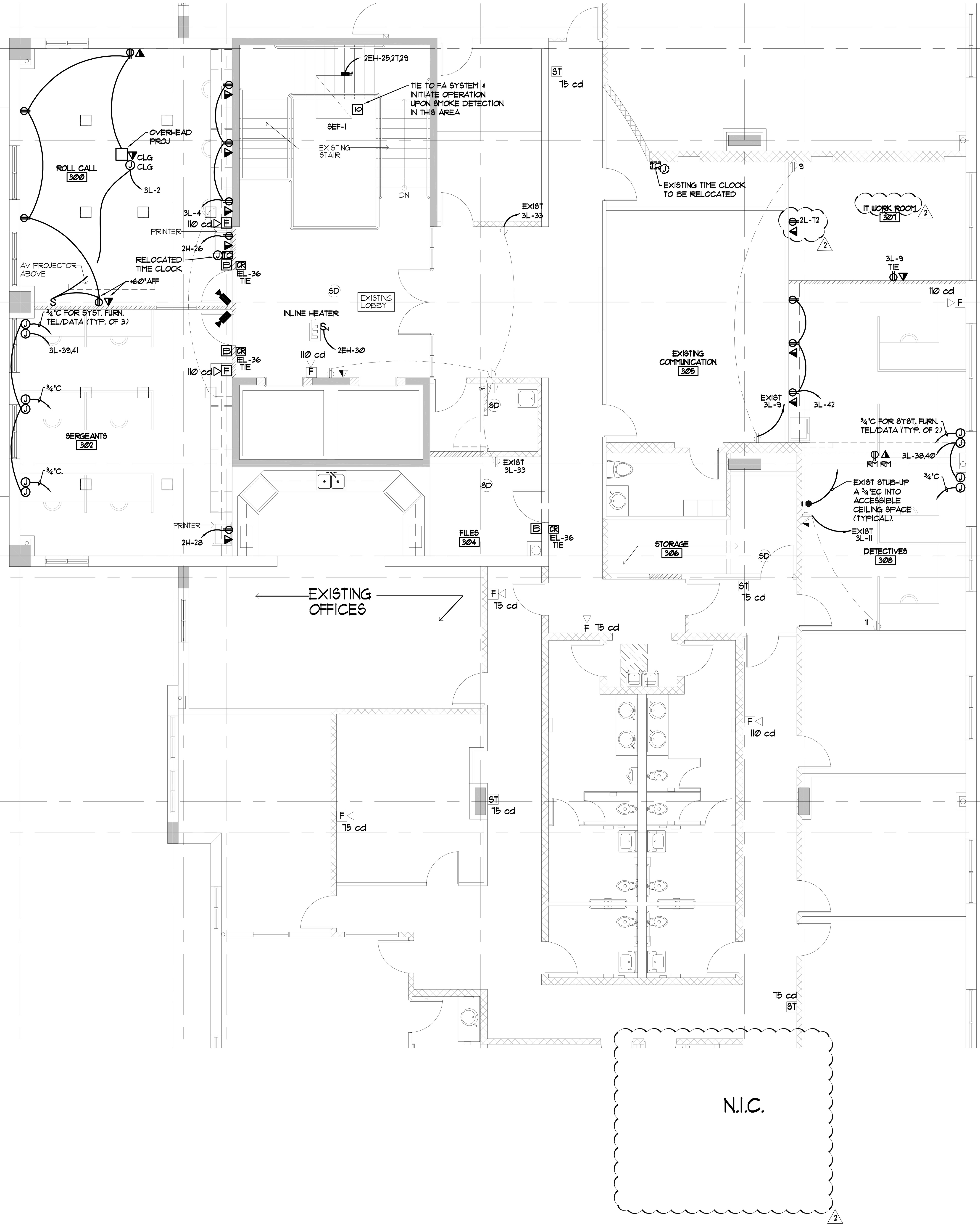
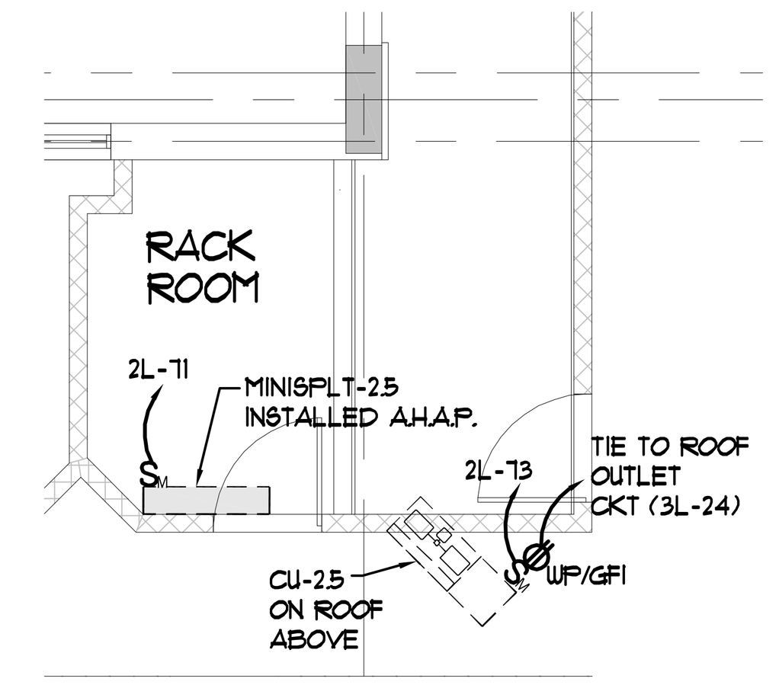
DESIGN	DRAWN	DATE
VF/RR	VF/RR	04/04/14
JOB NUMBER		13-222

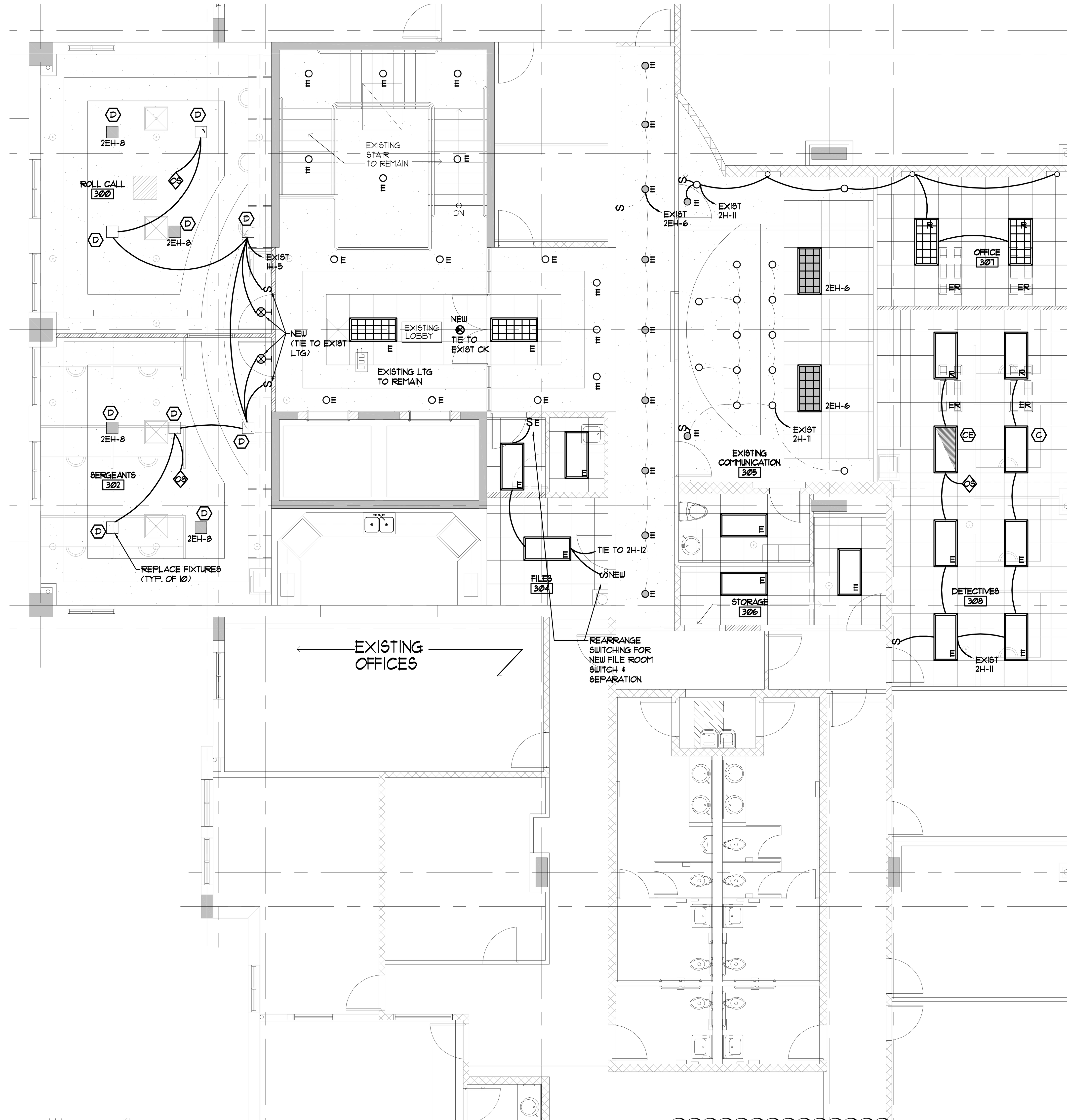
Date
Scale
Drawn
Job
Sheet
E-3
Of 5 Sheets



Enlarged Third Floor - Power Plan 3/16"
Third Floor
NORTH



Rack Room Partial- Power Plan 3/16"
Third Floor
NORTH

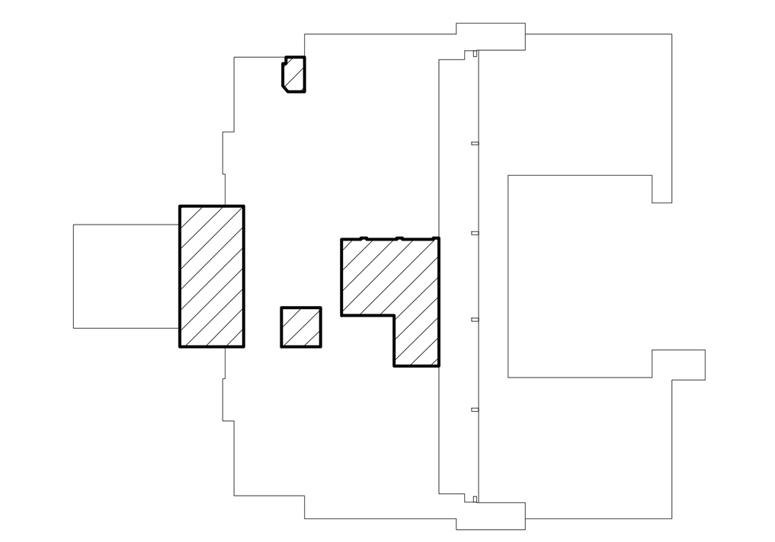


Enlarged Third Floor - Lighting Plan 3/16"
Third Floor
NORTH

	OCCUPANCY SENSORS FIXTURE SCHEDULE
WALL SWITCH - SMALL OFFICES	Acuity Brands Lighting Wall Occupancy Sensor - Manual on Sensor Switch WSD SA
OFFICE AREA CEILING SENSORS Extended coverage 12ft Radius @ 9ft.	Acuity Brands Lighting Standard Range 360° Sensor - Ceiling Mount, Line Voltage, Passive Infrared (PIR Sensor Switch CMR 9 line voltage 1200W@277V
OFFICE AREA CEILING SENSORS Extended coverage 28ft Radius @ 9ft.	Acuity Brands Lighting Extended Range 360° Sensor - Ceiling Mount, Line Voltage, Passive Infrared (PIR Sensor Switch CMR 10 line voltage 1200W@277V

LIGHTING FIXTURE SCHEDULE

Type	Luminaire Description	Luminaire Location	Manufacturer and Catalog Number	Volts	Lamp Information No.	Lamp Information Type/Base/Color/CRI	Mounting	Finish	Remarks
A	4FT FLUORESCENT WRAP AROUND	GENERAL	ACUITY BRANDS LIGHTING LB 332 MVOLT /3 GEB 10 PRS	MVOLT	3	28W T-8 MINI BI-PIN 4100K, 82 CRI	SURFACE	WHITE	SURFACE MOUNTED
AE	4FT FLUORESCENT WRAP AROUND *W/ EMERGENCY BATTERY PACK*	GENERAL	ACUITY BRANDS LIGHTING LB 332 MVOLT /3 GEB 10 PRS-EL	MVOLT	3	28W T-8 MINI BI-PIN 4100K, 82 CRI	SURFACE	WHITE	
B	2X2 TROFFER	OFFICES	ACUITY BRANDS LIGHTING 2GT8 G 2 U31 A12 MVOLT GEB10RS LP841 PWS1836	MVOLT	2	31W T8/U (1-5/8" LED) 4100K, 82 CRI	LAY-IN	WHITE	
C	2X4 TROFFER	GENERAL	ACUITY BRANDS LIGHTING 2GT8 G 2 32 A12 MVOLT 1/3GEB10RS LP841 PWS1836	MVOLT	2	32W T-8 MED. BI-PIN 4100K, 82 CRI	LAY-IN	WHITE	
CE	2X4 TROFFER W/ EMERGENCY BATTERY PACK	GENERAL	ACUITY BRANDS LIGHTING 2GT8 G 2 32 A12 MVOLT 1/3GEB10RS LP841 PWS1836-EL	MVOLT	2	32W T-8 MED. BI-PIN 4100K, 82 CRI	LAY-IN	WHITE	
D	NEW 12X12 TO REPLACE 10" DOWNLIGHTS	3RD FLOOR AREA	FOCAL POINT AERION - FAR 11 AC 3 BX18 S 277 U L841 WH		2	18W BIAX	RECESSED FLANGE	WHITE	
E	4' ENCLOSED FLUORESCENT	SALLY PORT	COLUMBIA LUN4-232-EB8LH-UNV	277	2	32W T-8 MED. BI-PIN 4100K/75 CRI	SURFACE	WHITE	ENCLOSED AND GASKETED LUMINAIRE SUITABLE FOR WET LOCATION 1
F	4' ENCLOSED FLUORESCENT VANDAL *RESISTANT LIGHT*	HOLDING & INTERVIEW	KENALL SSAT5 1 2 28RS1 277 6/7 1 UV IH4	277	2	28W T-8 MED. BI-PIN 4100K, 82 CRI	RECESSED	WHITE	6 ANCHORING POINTS TO CLG SECURED INSTALL
EMERG	TWO HEAD EMERGENCY LIGHT	PUBLIC AREAS	ACUITY BRANDS LIGHTING EU2 M6	277	2	5.4W HALOGEN INCLUDED	WALL 7' AFF	WHITE	SUITABLE FOR DAMP LOCATION
EXIT	THERMOPLASTIC LED EXIT LIGTH WITH INTERNAL BATTERY PACK	ALL PUBLIC AREAS	ACUITY BRANDS LIGHTING EXR EL M6	277	N/A	RED LED ARRAY INCLUDED	UNIVERSAL	WHITE	SUITABLE FOR DAMP LOCATION



Building Key Plan N.T.S.
Third Floor

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

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Medley, FL. 33166 Phone: (305) 887-9541

REVISIONS	BY
1 05-05-14 BD. COORD. COMM.	VF
2 05-19-14 REV SCOPE	VF

May 20 2014

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JOB NUMBER 13-222

Date
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E-4
Of 5 Sheets

SQ'D NQOD

LOCATION: 2nd FLOOR ELECTRICAL ROOM. MAIN: M.L.O. — 400 A. M.L.O. PANEL '2L' (2 SECTIONS) — 120/208 V.3 φ 4 W. 10K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	ROOF RECEPTACLES	20	1	1.1	#12-½" C	2	REFRIGERATOR	20	1	1.4	#12-½" C
3	SMALL APPLIANCES	20	1	1.5	#12-½" C	4	REFRIGERATOR	20	1	1.4	#12-½" C
5	SMALL APPLIANCES	20	1	1.5	#12-½" C	6	GARAGE DISPOSAL	20	1	1.0	#12-½" C
7	E.W.C.	20	1	1.0	#12-½" C	8	E.W.C.	20	1	1.0	#12-½" C
9	E.W.C.	20	1	1.0	#12-½" C	10	E.W.C.	20	1	1.0	#12-½" C
11	E.W.C.	20	1	1.0	#12-½" C	12	E.W.C.	20	1	1.0	#12-½" C
13	E.W.C.	20	1	1.0	#12-½" C	14	E.W.C.	20	1	1.0	#12-½" C
15	RESTROOMS RECS.	20	1	1.1	#12-½" C	16	OFFICE RECEPTACLES	20	1	1.1	#12-½" C
17	RESTROOMS RECS.	20	1	1.1	#12-½" C	18	OFFICE RECEPTACLES	20	1	0.9	#12-½" C
19	OFFICE RECEPTACLES	20	1	1.1	#12-½" C	20	OFFICE RECEPTACLES	20	1	1.6	#12-½" C
21	OFFICE RECEPTACLES	20	1	1.1	#12-½" C	22	OFFICE RECEPTACLES	20	1	1.3	#12-½" C
23	OFFICE RECEPTACLES	20	1	1.5	#12-½" C	24	GYM RECEPTACLES	20	1	0.7	#12-½" C
25	OFFICE RECEPTACLES	20	1	1.3	#12-½" C	26	BATH RECEPTACLES	20	1	1.5	#12-½" C
27	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	28	OFFICE RECEPTACLES	20	1	1.1	#12-½" C
29	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	30	OFFICE RECEPTACLES	20	1	1.3	#12-½" C
31	RECEPTACLES	20	1	1.3	#12-½" C	32	OFFICE RECEPTACLES	20	1	1.1	#12-½" C
33	LUNCH ROOM RECS.	20	1	0.72	#12-½" C	34	OFFICE RECEPTACLES	20	1	1.1	#12-½" C
35	OFFICE RECEPTACLES	20	1	1.1	#12-½" C	36	OFFICE RECEPTACLES	20	1	1.3	#12-½" C
37	OFFICE RECEPTACLES	20	1	1.44	#12-½" C	38	OFFICE RECEPTACLES	20	1	0.9	#12-½" C
39	OFFICE RECEPTACLES	20	1	1.44	#12-½" C	40	RESTROOMS SOLENOID VALVES	20	1	0.6	#12-½" C
41	GYM RECEPTACLES	20	1	0.72	#12-½" C	42	RESTROOMS SOLENOID VALVES	20	1	0.6	#12-½" C
43	OUTSIDE RECEPTACLES	20	1	0.4	#12-½" C	44	RECEPTACLES	20	1	1.1	#12-½" C
45	EXH. FANS	20	1	0.9	#12-½" C	46	LIGHTINGS	20	1	1.5	#12-½" C
47	RECEPTACLES	20	1	0.9	#12-½" C	48	LIGHTINGS	20	1	1.0	#12-½" C
49	OFFICE RECEPTACLES	20	1	1.1	#12-½" C	50	RESTROOM RECEPTACLES	20	1	0.7	#12-½" C
51	RESTROOMS SOLENOID VALVES	20	1	0.6	#12-½" C	52	RESTROOM RECEPTACLES	20	1	0.7	#12-½" C
53	RESTROOMS SOLENOID VALVES	20	1	0.6	#12-½" C	54	CLASSROOM RECEPTACLES	20	1	0.7	#12-½" C
55	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	56	CLASSROOM RECEPTACLES	20	1	0.7	#12-½" C
57	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	58	SPARE	20	1	-	-
59	ROOF RECEPTACLES	20	1	0.7	#12-½" C	60	PNL '3L'	125	3	27.4	#1- 2"C
61	EXH. FANS	20	1	0.7	#12-½" C	62					
63	STORAGE RECEPTACLES	20	1	0.8	#12-½" C	64					
65	**TRAINING RM PROJ 2nd FLR**	**20**	**1**	**1.0**	**#12-½" C**	66	**TRAINNING RM REC 2nd FLR**	**20**	**1**	**1.0**	**#12-½" C**
67	**STORAGE COMP 2nd FLR**	**20**	**1**	**1.0**	**#12-½" C**	68	**TRAINNING RM REC 2nd FLR**	**20**	**1**	**0.6**	**#12-½" C**
69	**TRAINNING RM REC 2nd FLR**	**20**	**1**	**1.0**	**#12-½" C**	70	**TRAINNING RM REC 2nd FLR**	**20**	**1**	**0.8**	**#12-½" C**
71	**MINI SPLIT 2.5 2nd FLR**	**20**	**1**	**1.5**	**#10-½" C**	72	**IT ROOM WORK #301 REC**	**20**	**1**	**0.4**	**#12-½" C**
73	**CU-2.5 ROOF**	**20**	**1**	**1.5**	**#10-½" C**	74	**SPARE**	**20**	**1**	**0.4**	
75	SPACES	-	-	-	-	76	SPACES	-	-	-	-
77	SPACES	-	-	-	-	78	SPACES	-	-	-	-
79	SPACES	-	-	-	-	80	SPACES	-	-	-	-
81	SPACES	-	-	-	-	82	SPACES	-	-	-	-
83	SPACES	-	-	-	-	84	SPACES	-	-	-	-

CONNECTED K.V.A. = 77.4 TOTAL AMPS = 215

FEEDER : 2 RUNS OF (4 1/0 & 1 #4(G)) -2½" EACH.

CALCULATIONS FOR PANEL '2L'

DEMAND LOAD: RECEPTACLE 1ST 10 KVA @100% - 10.0 KW.
REMAINING 23.5 KW @50% - 11.8 KW.
REST OF LOAD @100% - **56.0 KW**

TOTAL LOAD **77.4 KW**

77.4 KW @ 208V 3 PHASE = 215 A.

SQ'D NQOD

LOCATION: 3rd FLOOR ELECT. ROOM. MAIN: M.L.O. — 225 A. M.L.O. PANEL "3L" — 120/208 V.3 φ 4 W. 10K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	2	**OFFICES REC**	20	1	**0.8**	**#12-½" C**
3	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	4	**OFFICES REC**	20	1	**0.8**	**#12-½" C**
5	OFFICE RECEPTACLES	20	1	0.72	#12-½" C	6	OFFICE RECEPTACLES	20	1	0.9	#12-½" C
7	OFFICE RECEPTACLES	20	1	0.72	#12-½" C	8	OFFICE RECEPTACLES	20	1	0.7	#12-½" C
9	OFFICE RECEPTACLES	20	1	0.72	#12-½" C	10	LUNCH ROOM RECS.	20	1	0.7	#12-½" C
11	OFFICE RECEPTACLES	20	1	0.72	#12-½" C	12	REFRIGERATOR	20	1	1.0	#12-½" C
13	LOBBY RECEPTACLES	20	1	0.9	#12-½" C	14	REFRIGERATOR	20	1	1.0	#12-½" C
15	GARAGE DISPOSAL	20	1	1.0	#12-½" C	16	OFFICE RECEPTACLES	20	1	0.7	#12-½" C
17	SMALL APPLIANCES	20	1	1.5	#12-½" C	18	OFFICE RECEPTACLES	20	1	0.7	#12-½" C
19	SMALL APPLIANCES	20	1	1.5	#12-½" C	20	OFFICE RECEPTACLES	20	1	0.72	#12-½" C
21	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	22	OFFICE RECEPTACLES	20	1	0.9	#12-½" C
23	OFFICE RECEPTACLES	20	1	1.1	#12-½" C	24	ROOF RECEPTACLES	20	1	0.9	#12-½" C
25	E.W.C.	20	1	1.0	#12-½" C	26	**COPIER**	20	1	**1.0**	**#12-½" C**
27	E.W.C.	20	1	1.0	#12-½" C	28	**COPIER**	20	1	**0.4**	**#12-½" C**
29	RESTROOMS RECS.	20	1	0.9	#12-½" C	30	RESTROOMS SOLENOID VALVE	20	1	0.6	#12-½" C
31	OFFICE RECEPTACLES	20	1	0.7	#12-½" C	32	SPARE	20	1	-	-
33	OFFICE RECEPTACLES	20	1	0.9	#12-½" C	34	BATH RECEPTACLES	20	1	0.7	#12-½" C
35	EXH. FANS	20	1	0.6	#12-½" C	36	RESTROOMS SOLENOID VALVE	20	1	0.6	#12-½" C
37	EXH. FANS	20	1	0.6	#12-½" C	38	**SYSTEM FURN J.B.**	**20**	**2**	**0.8**	**#12-½" C**
39	**SYSTEM FURN J.B.**	**20**	**2**	**0.8**	**#12-½" C**	40					
41						42	**OFFICES REC**	**20**	**1**	**0.8**	**#12-½" C**

CONNECTED K.V.A. = 32.8 TOTAL AMPS = 91

FEEDER : SEE ELECTRICAL RISER DIAGRAM

CALCULATIONS FOR PANEL "3L"

LOAD 32.8 KW @100% 32.8 KW

32.8 KW @ 208V 3 PHASE = 91 A.

SQ'D NQOD

LOCATION: 1ST FLOOR (MAIN ELECT ROOM) MAIN: M.C.B. — 3P-175A M.C.B. PANEL "1EL" (2 SECTIONS) — 120/208 V.3 φ 4 W. 10K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	ELEV. PITS LTS/RECS	20	1	0.8	#12-½" C	2	ELEVATOR CAB. LTS.	20	1	0.7	#12-½" C
3	CARD READERS	20	1	1.1	#12-½" C	4	ELEVATOR CAB. LTS.	20	1	0.7	#12-½" C
5	GENERATOR BATTERY CHARGER	20	1	0.4	#12-½" C	6	ELEV. MACHINE RM. RECS.	20	1	0.4	#12-½" C
7	SUMP PUMP	20	1	0.8	#12-½" C	8	JACKET HEATER	60	2	9.0	#6-1" C
9	RECEPT OUTLET	20	1	0.2	#12-½" C	10					
11	ELECTRICAL ROOM RECEPTACLE	20	1	0.2	#12-½" C	12	BATTERY CHARGER	20	1	1.8	#10-½" C
13	ROLLING GATE	20	1	1.0	#12-½" C	14	ROLLING GATE	20	1	1.0	#12-½" C
15	ROLLING GATE	20	1	1.0	#12-½" C	16	ROLLING GATE	20	1	1.0	#12-½" C
17	2nd FL TEL RM RECS.	20	1	0.2	#12-½" C	18	3rd FL TEL. RM RECEPTS.	20	1	0.72	#12-½" C
19	2nd FL ELECT. RM RECEPT.	20	1	0.72	#12-½" C	20	3rd FL ELECT. RM RECEPT.	20	1	0.2	#12-½" C
21	SERVER ROOM # 306	20	1	1.1	#12-½" C	22	FIRE SMOKE DAMPERS	20	1	0.2	#12-½" C
23	SERVER ROOM # 306	20	1	1.1	#12-½" C	24	SPARE	20	1	-	-
25	WU-1 (ELEV. MACH. RM)	20	2	2.8	#12-½" C	26	FIRE ALARM PANEL ▲	20	1	1.0	#12-½" C
27						28	FIRE ALARM PANEL ▲	20	1	1.0	#12-½" C
29	MAIN TEL. BKBD	20	1	0.7	#12-½" C	30	INTERCOM	20	1	1.0	#12-½" C
31	MAIN TEL. BKBD	20	1	0.7	#12-½" C	32	LIGHTS	20	1	1.0	#10-½" C
33	MAIN TEL. BKBD	20	1	0.7	#12-½" C	34	CARD READERS	20	1	1.1	#10-½" C
35	DOOR STRIKE	20	1	0.5	#12-½" C	36	INTERCOM	20	1	1.0	#10-½" C
37	SECURITY PANEL	20	1	0.7	#12-½" C	38	MAYOR'S OFFICE RECS.	20	1	0.7	#10-½" C
39	SECURITY PANEL	20	1	0.7	#12-½" C	40	MAYOR'S OFFICE RECS.	20	1	0.7	#10-½" C
41	FSD	20	1	0.1	#12-½" C	42	MAYOR'S OFFICE RECS.	20	1	0.7	#10-½" C
43	MAYOR'S OFF. CONF.	20	1	0.7	#10-½" C	44	MAYOR'S OFFICE BATHS	20	1	0.5	#10-½" C
45	MAYOR'S OFFICE REFRIGERATOR	20	1	0.7	#10-½" C	46	SOLENOID VALVES	20	1	0.6	#10-½" C
47	CARD READERS	20	1	1.1	#10-½" C	48	**GRD FLR REC**	**20**	**1**	**1.0**	**#12-½" C**
49	INTERCOM.	20	1	1.0	#10-½" C	50	**GRD FLR REC**	**20**	**1**	**1.0**	**#12-½" C**
51	**EWC**	**20**	**1**	**1.2**	**#10-½" C**	52	SPACE	-	-	-	-
53	SPARE	20	1	-	-	54	SPACE	-	-	-	-
55	SPARE	20	1	-	-	56	SPACE	-	-	-	-
57	SPARE	20	1	-	-	58	SPACE	-	-	-	-
59	SPARE	20	1	-	-	60	SPACE	-	-	-	-
61	SPACE	-	-	-	-	62	SPACE	-	-	-	-
63	SPACE	-	-	-	-	64	SPACE	-	-	-	-
65	SPACE	-	-	-	-	66	SPACE	-	-	-	-
67	SPACE	-	-	-	-	68	SPACE	-	-	-	-
69	SPACE	-	-	-	-	70	SPACE	-	-	-	-
71	SPACE	-	-	-	-	72	SPACE	-	-	-	-

CONNECTED K.V.A. = 45.6 TOTAL AMPS = 127

FEEDER : 4 #2/0 & 1 #6(G) - 2½"C

▲ LABEL 'DO NOT TURN OFF'

CALCULATIONS FOR PANEL "1EL"

LARGEST MOTOR 2.8 KW @125% 3.5 KW
REST OF LOAD 42.1 KW @100% 42.1 KW

TOTAL LOAD **45.6 KW**

45.6 KW @ 208V 3 PHASE = 127 A.

SQ'D NQOD

LOCATION: 1st FLOOR (EOC) MAIN: M.C.B. — 3P-100A M.C.B. PANEL "1ELA" — 120/208 V.3 φ 4 W. 10K AIC MOUNT: FLUSH

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	ELEV. PIT LTS/RECS	20	1	0.4	#12-½" C	2	PROTECTOR SCREEN	20	1	0.2	#12-½" C
3	ELEVATOR CAB. LTS.	20	1	0.7	#12-½" C	4	EMERGENCY MANAGEMENT	20	1	0.7	#12-½" C
5	POLICE E.O.C. RECS.	20	1	0.7	#12-½" C	6	EMERGENCY MANAGEMENT	20	1	0.7	#12-½" C
7	POLICE E.O.C. RECS.	20	1	0.7	#12-½" C	8	COMUNICATION ROOM	20	1	0.5	#10-¾" C
9	**GRD FL REC**	20	1	**0.6**	**#12-½" C**	10	COMUNICATION ROOM	20	1	0.5	#12-½" C
11	**GRD FL REC**	20	1	**0.6**	**#12-½" C**	12	LIGHTING	20	1	0.2	#12-½" C
13	EWC	20	1	0.8	#12-½" C	14	SERVING KITCHEN	20	1	0.2	#12-½" C
15	EWC	20	1	0.8	#12-½" C	16	AUTO FLUSH VALVES	20	1	0.2	#12-½" C
17	BATH RECS.	20	1	0.7	#12-½" C	18	TEL. BKBD.	20	1	0.7	#12-½" C
19	RECEPTACLES	20	1	0.7	#12-½" C	20	RECEPTACLES	20	1	1.1	#12-½" C
21	RECEPTACLES	20	1	0.7	#12-½" C	22	CARD READERS	20	1	1.1	#12-½" C
23	RECEPTACLES	20	1	0.7	#12-½" C	24	INTERCOM.	20	1	1.0	#12-½" C
25	SUMP PUMP	20	1	0.7	#12-½" C	26	SECURITY PANEL	20	1	0.8	#12-½" C
27	**DRINKING FOUNTAIN**	20	1	**1.0**	**#12-½" C**	28	**GDO**	20	1	**1.0**	**#12-½" C**
29	ELEV. MACH. RM RECS.	20	1	0.2	#12-½" C	30	**CARD READER**	20	1	**1.0**	**#12-½" C**
31	EXH. FANS	20	1	0.5	#12-½" C	32	**MAG LOCK**	20	1	**1.0**	**#12-½" C**
33	**EF-3**	**20**	**1**	**0.8**	**#12-½" C**	34	**DOOR OPERATOR**	20	1	**1.0**	**#10-¾" C**
35	**FUME EVIDENCE UNIT REC.**	**20**	**1**	**1.0**	**#12-½" C**	36	**SALLYPORT DOOR**	20	1	**1.0**	**#10-¾" C**
37	**REFRIG. EVIDENCE ROOM**	**20**	**1**	**0.8**	**#12-½" C**	38	SPACE	-	-	-	-
(*) 39	FC-1	30	2	1.0	#10-½" C	40	CU-1 (*)	30	2	2.8	#10-½" C
41						42					

CONNECTED K.V.A. = 27.6 TOTAL AMPS = 77

FEEDER : 4 #1 & 1 #6(G) - 2"C

(*) PROVIDE HACR TYPE BREAKER

CALCULATIONS FOR PANEL "1ELA"

LARGEST MOTOR 2.8 KW @125% 3.5 KW
REST OF LOAD 25.9 KW @100% 25.9 KW
29.4 KW

TOTAL LOAD
29.4 KW @ 208V 3 PHASE = 81.7 A.

LOCATION: 1st FLOOR MAIN ELECTRICAL ROOM MAIN: M.L.O. — EXISTING — 225 A. M.L.O. PANEL "1H" — 277/480 V.3 φ 4 W. 42K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
(φ) 1	EXTERIOR LTS.	20	1	1.3	#10-½" C	2	PARKING LTS.	20	1	1.7	#12-½" C (#)
3	1st FLOOR LTS.	20	1	0.6	#12-½" C	4	STORAGE/TRASH ROOM LTS.	20	1	1.0	#12-½" C
5	THREE STORY LOBBY LTS.	20	1	0.5	#12-½" C	6	STAIR LTS.	20	1	0.9	#12-½" C
7	SPARE	20	1	-	-	8	SPARE	20	1	3.3	#12-½" C
(φ) 9	PARKING LOT LTS.	20	1	1.14	#12-1/2" C (1)	10	**GROUND FLR LTS**	20	1	**1.0**	**#12-½" C**
(φ) 11	PARKING LOT LTS.	20	1	1.14	#12-1/2" C (1)	12	SPARE	20	1	-	-
13	EWH-2	30	3	18.0	#10-¾" C	14	SPARE	20	1	-	-
15						16	PARKING LOT LTS.	20	1	1.14	#12-1/2" C (1) (φ)
17						18	PARKING LOT LTS.	20	1	1.14	#12-1/2" C (1) (φ)
(φ) 19	PLAZA BALLADS	20	1	0.3	#10-¾" C	20	EXTERIOR LTS.	20	1	3.0	#10-½" C (φ)
(φ) 21	PLAZA BALLADS	20	1	1.3	#8-¾" C	22	SPARE	20	1		
(φ) 23	PLAZA BALLADS	20	1	0.8	#8-¾" C	24	SPARE	20	1		
25	SPACE	-	-	-	-	26	SPACE	-	-	-	-
27	SPACE	-	-	-	-	28	SPACE	-	-	-	-
29	SPACE	-	-	-	-	30	SPACE	-	-	-	-

CONNECTED K.V.A. = 41.75 TOTAL AMPS = 50

FEEDER : SEE PANEL 'DP'

CALCULATIONS FOR PANEL "1H"

LIGHTING LOAD 19.0 KW @125 % 23.75 KW
REST OF LOAD 18.0 KW @100% 18.0 KW

TOTAL LOAD 41.75 KW

41.75 KW @ 480V 3 PHASE = 50 A.

(φ) THRU TIMECLOCK.
(1) OR EQUIVALENT MC CABLE DIRECT BURIAL RATED

LOCATION: 1st FLOOR MAIN ELECTRICAL ROOM MAIN: M.L.O. — EXISTING — 100 A. M.L.O. PANEL "1EH" — 277/480 V.3 φ 4 W. 42K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	PARKING LTS.	20	1	2.0	#12-½" C	2	EXTERIOR ENTRANCE LTS.	20	1	1.7	#10-½" C (φ)
3	STAIR LTS.	20	1	0.9	#12-½" C	4	LOBBY LTS.	20	1	0.5	#12-½" C
5	1st FLOOR LTS.	20	1	1.0	#12-½" C	6	SPARE	20	1	-	-
7	SPARE	20	1	-	-	8	SPARE	20	1	-	-
9	ELEV./ ROOM LTS.	20	1	0.3	#12-½" C	10	SPARE	20	1	-	-
11	**EOC/POLICE LTS**	**20**	**1**	**2.2**	**#10-½" C**	12	GENERAL AREA LTS	20	1	1.3	#10-½" C
13	**EOC/POLICE LTS**	**20**	**1**	**1.4**	**#10-½" C**	14	**GRD FLR LTS**	**20**	**1**	**0.3**	**#10-½" C**
15	CLASSROOM LTS	20	1	2.4	#10-½" C	16	SPACE				
17	SPARE	20	1	-	-	18	SPACE				
19	SPACE	-	-	-	-	20					
21	SPACE	-	-	-	-	22	RTU #3	50	3	23.2	#6-1" C (*)
23	SPACE					24					

CONNECTED K.V.A. = 46.1 TOTAL AMPS = 56

FEEDER : SEE PNL 'EDP'.

CALCULATIONS FOR PANEL "1EH"

LIGHTING LOAD 13.7 KW @125 % 17.1 KW
LARGEST MOTOR 23.2 KW @125% 29.0KW

TOTAL LOAD **46.1 KW**

46.1 KW @ 480 V 3 PHASE = 56 A.

(φ) THRU TIMECLOCK
(*) PROVIDE HACR TYPE BREAKER

LOCATION: 2nd FLOOR ELECTRICAL ROOM. MAIN: M.L.O. — EXISTING — 225 A. M.L.O. PANEL "2H" — 277/480 V.3 φ 4 W. 22K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	2nd FLOOR OFFICES LTS.	20	1	2.4	#12-½" C	2	2nd FLOOR OFFICES LTS.	20	1	2.6	#12-½" C
3	2nd FLOOR OFFICES LTS.	20	1	2.0	#12-½" C	4	2nd FLOOR OFFICES LTS.	20	1	2.1	#12-½" C
5	2nd FLOOR OFFICES LTS.	20	1	2.0	#12-½" C	6	2nd FLOOR OFFICES LTS.	20	1	2.1	#12-½" C
7	2nd & 3rd WALKWAY LTS.	20	1	1.2	#12-½" C	8	3rd FLOOR OFFICES LTS.	20	1	2.7	#12-½" C
9	OUTDOOR PLAZA	20	1	0.9	#12-½" C	10	3rd FLOOR OFFICES LTS.	20	1	2.6	#12-½" C
11	3rd FLOOR OFFICE LTS.	20	1	1.8	#12-½" C	12	3rd FLOOR OFFICES LTS.	20	1	2.6	#12-½" C
13	VAV'S-2.18, 2.19	20	1	1.7	#12-½" C	14	SPARE	20	1		
15	VAV'S-2.12, 2.13, 2.14	20	1	1.7	#12-½" C	16	SPARE	20	1		
17	VAV'S-2.4, 2.5, 2.10	20	1	1.7	#12-½" C	18	VAV'S-2.1, 2.2	20	1	1.7	#12-½" C
19	VAV-2.8	20	1	2.7	#12-½" C	20	VAV-2.7	20	1	2.7	#12-½" C
21	SPARE	20	1			22	**VAV-2.8**	**40**	**1**	**7.5**	**#6-1" C**
23	SPARE	20	1			24	SPARE	20	1	-	-
25	WATER HEATER 2ND FL	20	3	9.0	#12-½" C	26	SPARE	20	3	-	-
27						28					
29						30					
31	**STORE LTS 2nd FLR**	20	1	**0.2**	**#12-½" C**	32	SPARE	20	1	-	-
33	SPACE	-	-	-	-	34	SPARE	20	1	-	-
35	SPACE	-	-	-	-	36	SPACE	-	-	-	-
37	SPACE	-	-	-	-	38	SPACE	-	-	-	-
39	SPACE	-	-	-	-	40	SPACE	-	-	-	-
41	SPACE	-	-	-	-	42	SPACE	-	-	-	-

CONNECTED K.V.A. = 73.8 TOTAL AMPS = 89

FEEDER : SEE PNL 'DP'

CALCULATIONS FOR PANEL "2H"

LIGHTING LOAD 28.4 KW @125 % 35.5 KW
REST OF LOAD 38.3 KW @100% 38.3 KW

TOTAL LOAD **73.8 KW**

73.8 KW @ 480V 3 PHASE = 89 A.

LOCATION: 2nd FLOOR ELECTRICAL ROOM MAIN: M.L.O. — 100 A. M.L.O. PANEL "2EH" — **(R) EXISTING TO BE REPLACED** — 277/480 V.3 φ 4 W. 22K AIC MOUNT: SURFACE

CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND	CKT	SERVES	C.B.	P	K.V.A.	WIRE-COND
1	2nd FLOOR LTS	20	1	2.0	#12-½" C	2	2nd & 3rd WALKWAY LTS.	20	1	1.6	#12-½" C
3	2nd FLOOR LTS	20	1	2.3	#12-½" C	4	ROOF LTS.	20	1	0.2	#12-½" C
5	2nd FLOOR LTS	20	1	2.0	#12-½" C	6	3rd FLOOR LTS.	20	1	2.7	#12-½" C
7	OUTDOOR PLAZA	20	1	0.8	#10-½" C	8	3rd FLOOR LTS.	20	1	2.5	#12-½" C
9	VAV- 3RD FLOOR	20	1	1.0	#12-½" C	10	MAYOR'S OFFICE LTS	20	1	2.2	#12-½" C
11	VAV'S-3.8, 3.12	20	1	1.7	#12-½" C	12	VAV'S-3RD FLOOR	20	1	1.0	#12-½" C
13	**TRAINNING RM LTS**	**20**	**1**	**0.6**	**#12-½" C**	14	VAV'S-3RD FLOOR	20	1	1.0	#12-½" C
15	IT ROOM LTS	20	1	0.2	#12-½" C	16	VAV'S-3.7, 3.11	20	1	1.7	#12-½" C
17	SPACE	-	-	-	-	18	VAV'S-3.2, 3.3, 3.5	20	1	1.7	#12-½" C
19						20	WATER HTR 3RD FL	20	3	9.0	#12-½" C
21	RTU #1	20	3	11.8	#10-1" C	22					
23						24					
25						26	**SPACE**	-	-	-	-
27	**SEF-1**	**20**	**3**	**9.3**	**#10-¾" C**	28	**SPACE**	-	-	-	-
29						30	**INLINE HEATER**	**30**	**1**	**5.0**	**#10-¾" C**

CONNECTED K.V.A. = 62.6 TOTAL AMPS = 71

FEEDER : SEE PNL 'EDP'.

CALCULATIONS FOR PANEL "2EH"

LIGHTING LOAD 20.0 KW @125 % 25 KW
LARGEST MOTOR 9.3 KW @125% 11.6 KW
REST OF LOAD 5.0 KW @100% 5.0 KW

TOTAL LOAD **41.6 KW**

41.6 KW @ 480 V 3 PHASE = 50 A.
ADDED LOADS 17.1 KW = 21 A
71 A

(R) REPLACE PANEL FOR 30SP MIN. PANEL & ALL RECONNECTED BOLD CIRCUITS REPRESENT NEW SCOPE

LOCATION: 1st FLOOR MAIN ELECTRICAL ROOM MAIN: M.C.B. — EXISTING — 3P-1200A GFP M.C.B. PNL" DP" — 277/480 V. 3 φ 4 W. AIC RATING: 65 KAIC

CKT	SERVES	AMPS	KW	C.B.	P.	WIRE – CONDUIT	REMARKS
1	PNL "1H"	48		100	3	4#2 & 1#8(G) 1-1/2"C	
2	PNL "2H"	84		150	3	4#1/0 & 1#6(G) 2"C	
3	PNL "M" (*)	213		500	3	(2) SETS OF 3#250 KCMIL & 1#1(G) 3"C	
4	SPARE			225	3		
5	TVSS	-	-	40	3	5#8 -¾"C.	
6	SPACE	-	-	-	-		
7	SPACE	-	-	-	-		
8	SPACE	-	-	-	-		
SUB TOTAL AMPS		823					
TOTAL AMPS		345					

(*) PROVIDE HACR TYPE BREAKER.

FEEDER : SEE RISER

LOCATION: 1st FLOOR MAIN ELECTRICAL ROOM MAIN: M.L.O. — EXISTING — 600A M.L.O. PNL" EDP" — 277/480 V. 3 φ 4 W. AIC RATING: 65 KAIC

CKT	SERVES	AMPS	KW	C.B.	P.	WIRE – CONDUIT	REMARKS
1	ELEV#1	-	(F)	110▲	3	3#1 & 1#6(G) - 2"C	40 HP ASSUMED
2	ELEV#2	-	(F)	110▲	3	3#1 & 1#6(G) - 2"C	40 HP ASSUMED
3	ELEV #3	-	(F)	100▲	3	3#1 & 1#6(G) - 2"C	40 HP ASSUMED
4	PNL "1EH"	-	(F)	100	3	4#2 & 1#8(G) -1½"C	
5	PNL "2EH"	-	(F)	100	3	4#2, 1#8(G) -1½"C	
6	112.5 KVA XMER.	-	(F)	175	3	SEE TRANSFORMER SCHEDULE SHEET E-9.	FEEDS PNLS "1EL","1ELA" & "1ELB"
7	WATER HTR.	-	(F)	20	3	3#10- ¾"C	9.0 KW
8	TVSS	-	-	40	3	5#8- ¾"C	
9	150 KVA XMER	102	85	225	3		TX FOR 1L/2L/3L
10	RTU-6	109	90	125	3	3#1, 1#6(G) -1½"C	

30 DAY READING: 160 KWD @ 125% = 200 KW
NEW LOADS FROM 2EDP = 175 KW
ADDED LOADS ON 2EH = 17 KW
392 KW

500 KW @ 480V/3PH = 472 AMPS
EXIST. GENERATOR CAPACITY - 415 KW
EDP PANEL & ATS CAPACITY - 600A

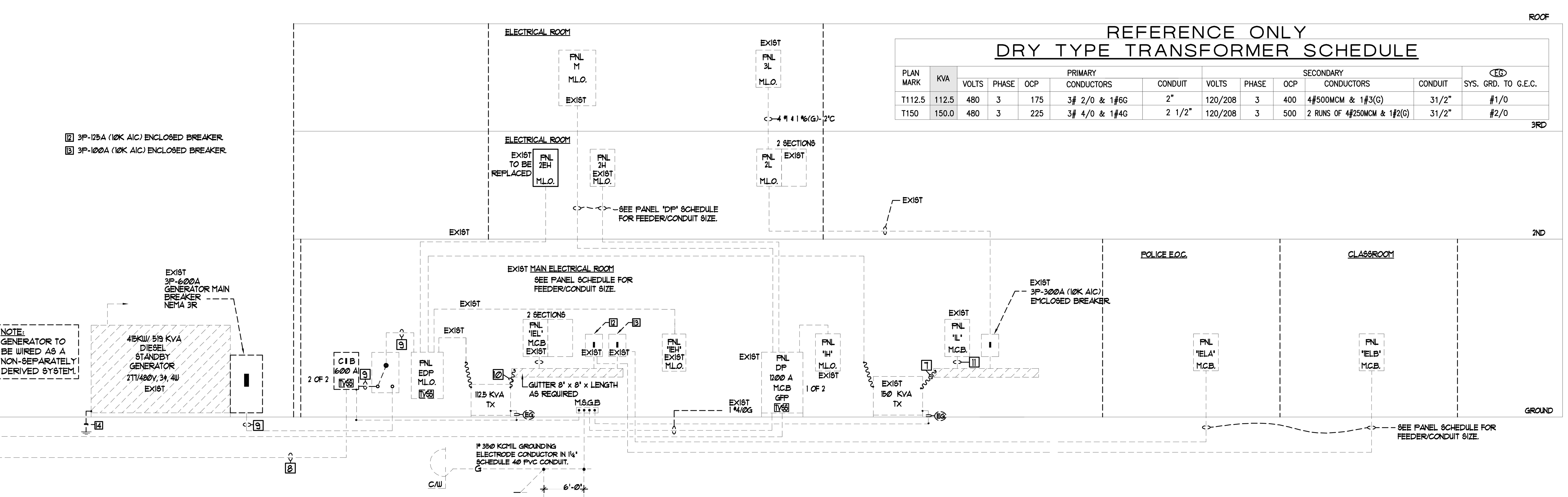
FEEDER : SEE RISER

▲ SHUNT-TRIP BREAKER

(F) LOAD BASED ON LOAD READINGS FOR 30 DAYS SEE CALCULATIONS FOR THE PANEL

REFERENCE ONLY
DRY TYPE TRANSFORMER SCHEDULE

PLAN MARK	KVA	PRIMARY VOLTS	PRIMARY PHASE	PRIMARY OCP	PRIMARY CONDUCTORS	PRIMARY CONDUIT	SECONDARY VOLTS	SECONDARY PHASE	SECONDARY OCP	SECONDARY CONDUCTORS	SECONDARY CONDUIT	(EG) SYS. GRD. TO G.E.C.
T112.5	112.5	480	3	175	3# 2/0 & 1#6G	2"	120/208	3	400	4#500MCM & 1#3(G)	31/2"	#1/0
T150	150.0	480	3	225	3# 4/0 & 1#4G	2 1/2"	120/208	3	500	2 RUNS OF 4#250MCM & 1#2(G)	31/2"	#2/0



EXISTING ELECTRICAL RISER DIAGRAM
N.T.S.
REFERENCE ONLY

NOTE:
BOLD CIRCUITS INDICATE NEW & PART OF SCOPE. OTHERS ARE EXISTING & SHOWN FOR REFERENCE

PANEL INDEX

2L	1EL	1H	1EH
3L	1ELA	2H	2EH
			DP
			EDP

THESE PLANS ARE FOR BUILDING DEPARTMENT REVIEW. THEY ARE NOT TO BE CONSTRUED AS FINAL CONSTRUCTION DOCUMENTS UNTIL ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS. DUE TO THE VARIATIONS IN INTERPRETATIONS OF THE CODE THAT OCCUR IN DIFFERENT MUNICIPALITIES FINAL APPROVAL AND REVIEW IS NEEDED TO ASSURE COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

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INTERIOR ALTERATIONS FOR:
The Town of Medley - Florida
Municipal Services Facility
Owner: The Town of Medley
7777 NW 72nd Avenue
Medley, FL. 33166 Phone: (305) 887-9541

REVISIONS	BY
1 05-05-14 B.D. COORD. COMM.	VF
2 05-19-14 REV SCOPE	VF

May 20 2014

NOT VALID FOR CONSTRUCTION UNLESS SIGNED & SEAL IN THIS BOX & ALL BUILDING DEPARTMENT APPROVALS ARE OBTAINED AND COMMENTS INCORPORATED INTO THESE DWGS.

FRANYIE ENGINEERS INC.
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DESIGN VF/RR DRAWN VF/RR DATE 04/04/14
JOB NUMBER 13-222

Date
Scale
Drawn
Job
Sheet
E-5
Of 5 Sheets