

- 1) ALL WIRE AND CONDUIT MUST BE INSTALLED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS, AND MUST MEET ALL APPLICABLE CODES.
- 2) ALL WIRE AND CABLE MUST BE RATED FOR FIRE ALARM USE PER THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE SECTION 760. THIS IS A POWER LIMITED FIRE ALARM SYSTEM. ALL CABLE MUST BE MARKED **FPL, FPLR, CFI OR FPLP**.
- 3) ALL CONDUCTORS MUST TEST FREE OF GROUND BEFORE MAKING CONNECTION TO THE FIRE ALARM CONTROL PANEL.
- 4) TO RETAIN WARRANTY, THE FIRE ALARM EQUIPMENT MUST BE POWERED UP UNDER THE DIRECTION OF A QUALIFIED MANUFACTURERS TECHNICIAN.
- 5) THE LIFE SAFETY SYSTEM IS A COMPLETELY SUPERVISED SYSTEM.
- 6) INSTALLING ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIELD CHANGES WITH THE FIRE ALARM CONTRACTOR INCLUDING CHANGES IN DEVICES, WIRE, CONDUIT RUNS AND OPERATION IN THE SYSTEM. FIRE ALARM CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR UNDOCUMENTED CHANGES, OR THE RESULTS CAUSED BY THOSE CHANGES.
- 7) LIFE SAFETY AUDIBLE SHALL BE AUDIBLE THROUGHOUT THE SPACE AND SHALL HAVE A SOUND PRESSURE LEVEL NOT LESS THAN 15db above AMBIENT NOISE LEVEL MEASURED AT 4' ABOVE FINISHED FLOOR.
- 8) MAIN BUILDING FIRE ALARM & SUPPRESSION SYSTEMS SHALL BE CLASS "B" IN CONFIGURATION. PRE-ACTION & DELUGE ALARM SYSTEMS SHALL BE CLASS "A" IN CONFIGURATION. CLASS "A" APPLICATIONS SHALL MAINTAIN A MINIMUM SEPARATION OF 4 FEET BETWEEN FEED AND RETURN CIRCUITS.
- 9) LOCATE ALL PULL STATIONS AND HORN/STROBE UNITS AT SPECIFIED HEIGHTS PER NFPA 72 AND AOA SEE DETAIL SHEET.
- 10) SMOKE DETECTOR LOCATIONS ARE FOR REFERENCE ONLY AND SHALL BE INSTALLED PER NFPA 72. 11) ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ROUGH-IN INSTALLATION WITH THE FIRE ALARM CONTRACTOR.
- 12) SMOKE DETECTORS ON CEILINGS MUST BE NO MORE THAN 15" FROM A WALL, AND/OR NO MORE THAN 30" FROM EACH OTHER. REDUCED SPACING MAY ALSO BE REQUIRED. SEE PLAN DRAWINGS FOR PROJECT-SPECIFIC LOCATIONS.
- 13) ALL FIRE ALARM DEVICES SHALL BE RIGIDLY AND SECURELY FASTENED TO WALLS OR CEILINGS.
- 14) NO SMOKE DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO ANY AIR REGISTER OR DIFFUSER.
- 15) NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 24" TO ANY AIR REGISTER OR DIFFUSER.
- 16) NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 36" TO ANY PART OF ANY HEAT GENERATING DEVICE (FUSES, BOILERS, WATER HEATERS, ECT.) IN MECHANICAL ROOMS.
- 17) NO HEAT DETECTOR SHALL BE LOCATED CLOSER THAN 18" TO ANY PART OF ANY LIGHT FIXTURE.
- 18) INITIATING AND SIGNALING CIRCUITS ARE SEPARATE YET MAY BE RUN IN SAME CONDUIT.
- 19) ALL CONDUCTORS SHALL BE LABELED BY ZONE AND ALL COLOR CODES SHALL MATCH.
- 20) DEVICES THAT ARE UNABLE TO BE INSTALLED PERMANENTLY DURING DEVICE TRIM SHALL BE SPLICED TO BRING TO ALL DEVICES AND CIRCUIT DOWNSTREAM TO BE PRE-TESTED. THIS INCLUDES ALL CIRCUITS (SPEAKER CIRCUITS, STROBE CIRCUITS, ADDRESSABLE LOGIC CIRCUITS, 24VDC CIRCUITS, FIRE/FIGHTERS TELEPHONE CIRCUITS, ETC.)
- 21) THESE DRAWINGS DO NOT SUPERSEDE THE CONTRACT DRAWINGS AND SPECIFICATIONS, THEY ARE INTENDED AS A SUPPLEMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS. THEY DO NOT MODIFY THE CONTRACTORS OBLIGATIONS TO

SYMBOL	QTY	DESCRIPTION	MODEL #	BACK BOX / DIMENSIONS
[7]		MANUAL PULL STATION - ADDRESSABLE	50A-278	SINGLE-DWG. BY E.C.

SYMBOL		QTY	DESCRIPTION	MODEL #	BACK BOX / DIMENSIONS
MD	ICH	1	DUAL-INPUT MODULE	93A-012	SINGLE-CAVITY, 2.5" DEEP BY E.O. W/ COVER
				93A-012T	DUAL-CAVITY

SYMBOL	QTY	DESCRIPTION	MODEL #	BACK BOX / DIMENSIONS
	3	SYNG. MULTI-CANDULA CEILING SPOUNDER/STROKE	GC-37M (WHITE) GC-37M (TINT)	4" SQ. 2.125" DEEP BY 8"
	2	SYNG. MULTI-CANDULA CEILING STROKE	GC-36 (W/O TINT) GC-36M (TINT)	4" SQ. 2.125" DEEP BY 8"

ALL WIRING AND INSTALLATION METHODS SHALL BE IN COMPLIANCE WITH CURRENT RELEVANT NATIONAL ELECTRICAL CODE ARTICLES AND RELATED REGULATIONS.

WIRING INSTALLATION NOTES:

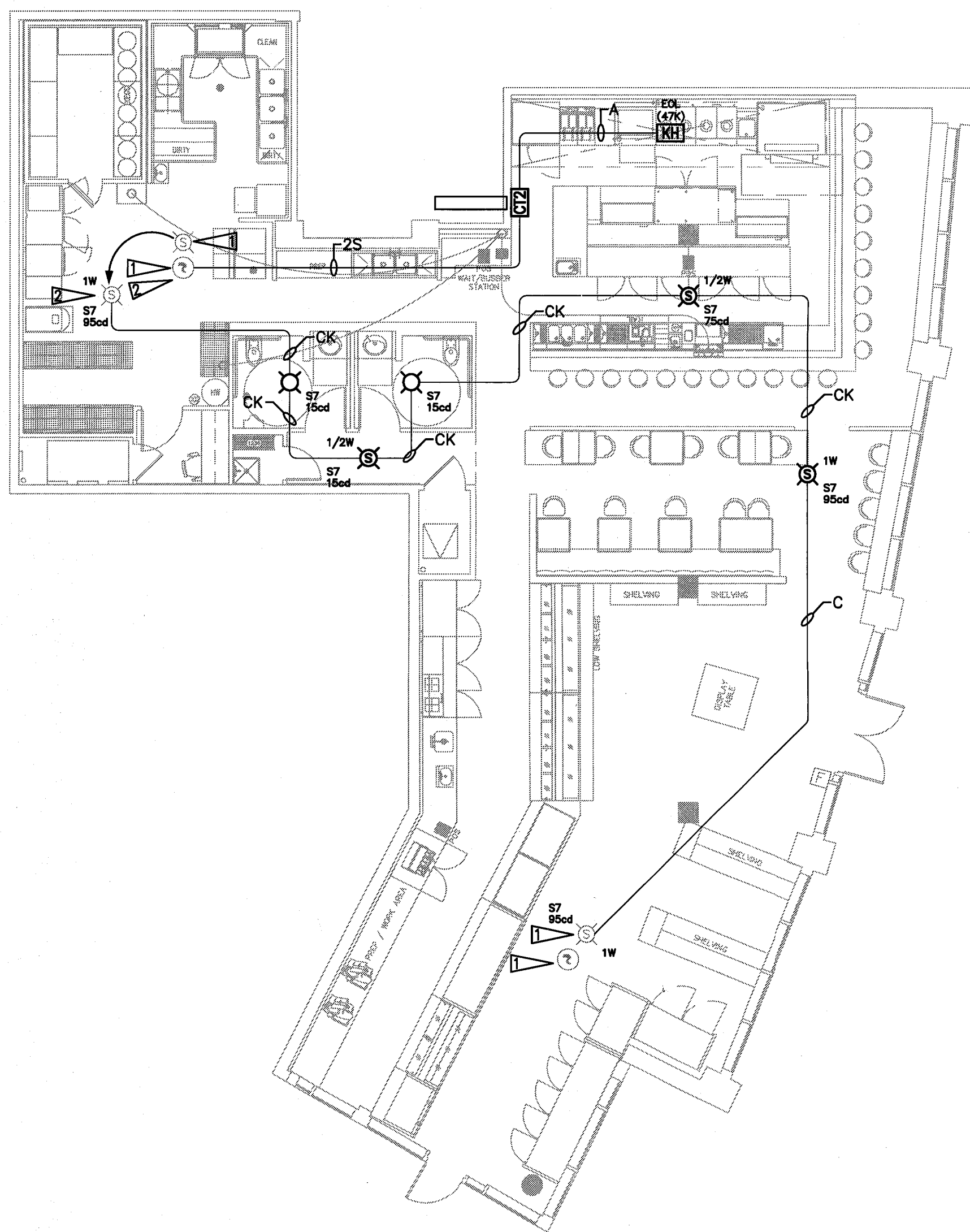
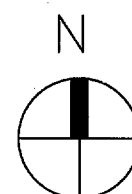
- * LABEL ALL ZONE WIRES WITH ZONE NUMBER TAG AND DESCRIPTION.
- * LABEL ALL ZONE WIRES WITH SIGNAL CIRCUIT NUMBER TAG AND DESCRIPTION.
- * WIRE NETWORK, ANNUNCIATOR AND I/O CONTROL CIRCUIT WIRING WITH CIRCUIT NUMBER TAG AND DESCRIPTION.
- * PROVIDE IDENTIFICATION OF ALL ELECTRICAL EQUIPMENT THAT OPEN CABLE IS REQUIRED ON SPECIFIC SITE.
- * WIRE WITH CONTRACTOR GENERAL CONTRACTOR FOR ANY SPECIFIC SITE REQUIREMENTS FOR ELECTRICAL INSTALLATION OF WIRING.

Letter	Qty	Wiring Cable Type	Conduit Wiring Cable Type	Size	Function
C	1	Pair (FPLP) Red/Blk	Red/Blk THHN	14	Home / Stroke
J	2	Pair (FPLP) Red/Yel	Red/Yel THHN	14	Stroke Loop
C	1	Pair (FPLP) Red/Whl	Red/Whl	16	Speaker
K	2	Twisted (FPLP) Red/Whl	Red/Whl THHN	16	Speaker Loop
P	1	Pair (FPLP) Red/Yel	Red/Yel THHN	14	Stroke
S	1	Pair (FPLP) Red/Blk	Red/Blk	16	Signature Data Line

The diagram illustrates the installation of a fire alarm system. Key components and their specifications include:

- Ceiling Mounted Smoke/Heat Detector:** Must be at least 3' (MIN) from the ceiling and 4" from the nearest edge of the detector.
- A/C Supply Diffuser:** Located on the ceiling.
- Fluorescent Light:** Located on the ceiling.
- Audio/Visual & Visual Only Devices:** Must be synchronized more than two visual appliances in any field of view. Placement is 80" MIN to 96" MAX from the finished floor and 66" AFF (Above Finished Floor).
- FACP (Fire Alarm Control Panel):** A central unit for the system.
- Magnetic Door Holder:** Located near the door.
- Door Width:** Must be less than 3'.
- Door Clearance:** 5' clearance above the door.
- Fire Phone Jack:** Located near the door.
- Manual Pull Station:** Located near the door.
- Finished Wall:** The wall on the right side of the diagram.
- Dimensions:** 48" MAX (ADA) and 42" MIN/54" MAX (NFPA) for the pull station.
- Permitted/Not Permitted Areas:** Indicated by shaded regions near the door and wall.

* DEVICES SHOWN DEPICT DEVICE TYPES ONLY.


$$1/8'' = 1'-0''$$


Part Description	Part Model	Current (mA)	Circuit #	Description	Current (Amps)	Distance (Feet)	Voltage Drops
Celling Speaker/Stroke @ 15cd	GC-57M	0.074					
Celling Speaker/Stroke @ 30cd	GC-57M	0.108					
Celling Speaker/Stroke @ 75cd	GC-57M	0.205					
Celling Speaker/Stroke @ 90cd	GC-57M	0.244					
Existing Device		0.083					
			S7		1.603	420	3.40
				Total Current Draw for AMP #S7 -	1.603		
				Capacities Used -	45.900%		

The diagram illustrates the internal components of a speaker, including the voice coil, magnet assembly, and terminal plate. Below the speaker components is a wiring diagram showing the connection of the speaker terminals to a power source (FROM PREVIOUS DEVICE OR P.S.) and a load (TO DEVICE OR EOL). The wiring diagram includes a terminal block with four terminals labeled S+, S-, C, and SPKR+. The connections are as follows:

- The terminal labeled S+ is connected to the terminal labeled C.
- The terminal labeled S- is connected to the terminal labeled C.
- The terminal labeled C is connected to the terminal labeled SPKR+.
- The terminal labeled SPKR+ is connected to the terminal labeled C.

① GC-S7VM - (CEILING SPEAKER STROBE)
SCALE: NONE

The diagram illustrates the internal structure of a vacuum tube socket. On the left, a schematic shows a rectangular block representing the socket body with two internal contact points labeled 'C'. Wires connect these points to the text 'FROM PREVIOUS DEVICE OR NAC CIRCUIT' and 'TO NEXT DEVICE OR'. On the right, a detailed exploded view shows the socket's components: a rectangular base with multiple contact pins, a circular contact ring, and a separate circular lid or cap.

2 GC-VM - (CEILING STROBE)

XX SCALE: NONE

A diagram showing a 250V 10A circuit breaker connected to a terminal block and a switch. The terminal block has terminals labeled 'b' and 'c'. The switch is labeled '250V 10A' and 'ON/OFF'.

DATA IN (+)
DATA IN (-)
FROM SIGNATURE CONTROLLER
OR REMOTE DEVICE

DATA OUT (+)
DATA OUT (-)
TO NEXT DEVICE

WIRE STRIPPING
STRIP 1/4" FROM THE ENDS OF ALL WIRES THAT
CONNECT TO THE TERMINAL BLOCKS OF THE MODULE.

3 SIGA-CT1 - (SINGLE INPUT MODULE)

SCALE: NONE

- 1 ▷ RELOCATE EXISTING DEVICE TO NEW CEILING.
MOVE IF SHOWN.
- 2 ▷ SPLICE EXISTING WIRING AT DEVICE FOR
CONNECTION OF NEW WIRING FOR
ADDITIONAL DEVICES & TO MAINTAIN
CIRCUIT INTEGRITY. ("T"-TAPPING IS NOT
ALLOWED)

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DOCUMENTATION AVAILABLE TO
CONVERGINT TECHNOLOGIES

DOCUMENTATION: CHESMORE BUC

DRAWING SHEETS: E-1.0

DRAWING DATE: 5-7-2014

FINAL REVIEW
DONE BY: _____

PLAN APPROVED *SQR# 49131*
SUBJECT TO ORDINANCE REQUIREMENTS OF PLAN REVIEW
AND FIELD INSPECTION. CALL 386-1443 FOR FIELD INSPECTION
HAVE COPY OF APPROVED PLAN AT JOB SITE.
CHIEF OF FIRE DEPARTMENT
BY *TS* DATE *9/15/2*

REV	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR PERMIT	9-11-14	

DRAWN BY:	CHRIS C.
PROJECT ENGINEER:	JAY B.
PROJECT MANAGER:	DAVID J.
JOB NUMBER:	301-FN-D545
SCALE:	1/8"=1'-0"
DATE:	

MARKET HALL T.I. @
THE OLIVIAN
809 OLIVE WAY
SEATTLE, WA 98101

1ST FLOOR

FIRE ALARM SYSTEM

DRAWING: FA-1-1

APR19/11/2014	FULL	CHMCL	PRG.	Filed at	\$0	889	OLIVE WAY	2 of 3
RELOCATE 4 EXISTING DESKS AND INSTALL 5 DEVICES ON THE 1ST FLOOR, JOINT VENTURE BETWEEN								
CONVEINIENT TECH AND PREMIER MECH & ELEC AT ARM ONLY								
Parent:	Released MUDP:			FIRE AT ARM ONLY		Build ID: FIRE AT ARM ONLY 6436168		