

AGENDA

CRHSAC Interoperability Subcommittee Agenda (Hybrid)

Tuesday, March 3rd, 2026

2:45 PM

CMEMSC

361 Holden St.

Holden, MA 01520

&

<https://us02web.zoom.us/j/84384383032>

1. **Call To Order:** Mr. Greg Lynskey
 - a. Introductions
2. **Minutes of February 3rd, 2026**
 - a. Vote to accept Minutes
3. **Financial**
4. **Chair Report:** Mr. Greg Lynskey
5. **Project Status:**
 - a. **Completed Projects:**
 - b. **Project Updates:**
 - i. UHF Project (FFY23 I.01 to FFY24 F.05)
 1. Discussion & vote
 - ii. CEMLEC Portable Radios for Drones and Motor Units (FFY23 I.02 & FFY24 F.01)
 1. Discussion & vote
 - iii. D7 Orange Project (FFY23 I.03)
 - iv. CMED Fire District Radios (FFY24 F.04)
 - v. Other projects
 1. Possible discussion & vote
 - c. **New Business:**
 - i. Other projects
 1. Possible discussion & vote
 - d. **Old Business:**
 - i. Other projects
 1. Possible discussion & vote
 - e. **SIEM Meeting Report/Updates: (Last Meeting: January 7, 2026; Next Meeting: March 4, 2026)**
6. **New Business Unforeseen by the Chair:**

7. **Next Meeting:** TBD

8. **Adjourn**

* This meeting is audio recorded



Minutes

CRHSAC Inter-Operability Subcommittee (Hybrid)

Tuesday, February 3rd, 2026, 2:45 PM

CMEMSC, 361 Holden St., Holden, MA 01520

Members Present: **Greg Lynskey**, Chair, SWCCC; **Tina Dixon**, Director, Central MA EMS Corp.; **Gary Fleischer**, Fire Chief, Worcester Fire; **Gerald Millette**, Chief, Warren Police; **Jeff Saad**, Police Chief, Webster Fire; **Paul Salvadore**, Worcester County Sheriff's Office; **Christopher Montiverdi**, Assistant Chief, Leicester Fire/EMS; **Russ Hall**, Chief, Holden Fire; **Marek Karlowicz**, Chief, Dudley Police; **Andrew Golas**, Town Administrator, Town of Charlton; **Chris Carelton**, NVRD.

Attendees: **Carli Harris**, CMRPC; **Anthony Senesi**, CMRPC; **Seth Peters**, CMRPC, **Sarah Cook**, EOPSS; **Richard Fiske**, MA-SWIC; **Robert Connolly**, Director, Worcester Emergency Management; **Raymond Ferrin**, MEMA; **Patrick Haverty**, Assistant Chief, Fitchburg Fire

Call To Order: Mr. Lynskey called the meeting to order at 3:00 pm.

Introductions: Tabled until Full Council Meeting.

Minutes: Meeting minutes of January 6th 2026, were presented. Motioned by **Chief Fleischer** to accept the minutes, seconded by **Ms. Dixon**. **Motion passed unanimously.**

Financial: Tabled until Full Council Meeting.

Chair Report: Mr. Lynskey, None.

Project Status:

Completed Projects:

1. None

Project Updates:

1. **UHF Project (FFY23 I.03 to FFY24 F.05)**

Ms. Harris stated that FFY23 is overallocated, and the project needs to be moved to FFY24. **Assistant Chief Montiverdi made a motion to move the UHF Project from FFY23 I.03 to FFY24 F.05 for the original amount of \$56,761.22, seconded by Ms. Dixon. Motion to adjourn passes unanimously.**

2. **CEMLEC Portable Radios for Drones and Motor Units (FFY23 I.02 & FFY24 F.01)**

Ms. Harris said she will follow up on the status of programming and installation.

3. **D7 Orange Project (FFY23 I.03)**

No updates.

4. **CMED Fire District Radios (FFY24 F.04)**

Mr. Lynskey stated that the CMED Fire District Radios were delivered to the vendor.

5. **Other Projects**

None

New Business:

1. **Worcester County CoMIRS Talk Group Discussion**

Mr. Lynskey stated that Central Massachusetts is the only region that uses an LPS channel as a PSAP-to-PSAP channel. Mr. Lynskey stated that in all the other parts of the State, the LPS channels are specific special incident type use, and each of those regions have their own radio systems. Mr. Lynskey stated that once the CoMIRS system is built out, there will be the creation of Worcester County South, Worcester County North, Worcester County South Tak, and Worcester County North Tak. Mr. Lynskey stated that once they are created, they will move the PSAP to PSAP communications bowls off LPS7 and return LPS7 for its intended use. Mr. Lynskey stated that the delineation line will be roughly split on the boundaries of District 7 and District 8.

2. Other projects

None

Old Business: None.

SIEC Meeting Report/Updates: (Next Meeting: February 4, 2026 (postponed due to lack of submitted projects))

Mr. Lynskey stated that Rich Fiske hosted a Public Safety Communications Interoperability Summit in Maynard about a week and a half ago. Mr. Lynskey stated that there was a discussion regarding the impact of the FIFA World Cup and 250th Anniversary festivities in June-July 2026. Mr. Lynskey suggested that this be discussed during the next Council monthly meeting.

New Business Unforeseen by the Chair:

No updates.

Next Meeting: TBD

Adjourn: **Chief Hall** made a motion to **adjourn the meeting**, seconded by **Chief Fleischer**. **Motion to adjourn passes unanimously. Meeting adjourned at 2:59 pm.**

Minutes taken by Anthony Senesi.

Minutes approved on _____.

**Massachusetts Executive Office of Public Safety and Security
Office of Grants and Research - Homeland Security Division
Project Justification Template**

I. Project Name and Number: PJ24-F.05 Worcester Area Campus Interop System

II. Homeland Security Region: Central, FF23

III. Anticipated Project Date Range: January 31, 2026 – January 31, 2028

IV. Project Description:

Proposed Activity:

Purchase, program and install communications infrastructure at the City of Worcester (CoW) Communications Site – Millstone, to create an interoperability communications system between area hospital campuses, higher education campuses, Worcester Regional Emergency Communications Center and the Commonwealth of Massachusetts Interoperable Radio System. Minor updates to 8tac repeater and Fire District 7 Orange system.

Project Need:

Funding for the purchase and install of a UHF repeater and combiner. Purchase and installation of cable and antennas on the CoW radio tower. Purchase, programming and installation of any needed supplies to connect trunked radio system. Programming of necessary public safety consoles.

Measurable Outcomes:

Enhancing the protection of soft targets/crowded places as well as, enhancing information and intelligence sharing. These are two of six Homeland Security Priority Areas that require 30% of the funding by DHS/FEMA. Ensuring continued quality operation of 8Tac and Fire District 7 Orange System.

Addressing the Core Capabilities of operational coordination and intelligence and information sharing of the two priority areas by constructing an improved interop communication system.

Background:

Originally, this project was planned in 2010's. There were several delays and problems that prevented the completion of the project. First the CoW changed from the former EDACS radio system to the current digital Motorola trunked platform. The acquired radio was a surplus radio donated to the project which needed to be reprogrammed and licensed. The 50-year-old surplus combiner supplied by the CoW was found to have multiple broken ports and needed repair. In addition, many of the local campus public safety departments needed to upgrade their radios to accommodate another channel.

Recently, Worcester Emergency Management in conjunction with several of these campus public safety departments have identified through the emergency planning process that re-consideration of this project would greatly enhance response to major public safety events on any of the campuses.

Funding Year, Source, and Justification Area (Prevention, Protection, Mitigation, Response, or Recovery):

FFY2023, SHSP, Response.

Project Management and Participants:

Chief Gary Fleischer fleischerg@worcesterma.gov

Seth peters Program Manager speter@cmrpc.org

Robert Connolly Worcester EM connollyr@worcesterma.gov (POC)

V. Milestones:

Milestones	Tasks/Activities	Start Date	Completion Date	Estimated Cost
CRHSAC approval		January 2025	Same	0
SIEC approval		February 2025	Same	0
EOPSS approval		March 2025	Same	0
Specification and RFP		April 2025	Same	0
Equipment Order		April 2025	July 2025	0
Antenna and Cable installation		May 2025	May 2025	\$27,160.00
Combiner Installation		June 2025	June 2025	\$36,486.10
Radio Installation	Go Live	August 2025	September 2025	\$15,035.80
(total without freight)				\$78,681.90

VI. Budget Plan by Cost Category:

Planning	0
Equipment	\$55,643.90
Labor	\$22,458.00
Freight	\$580.00
Training	0
Exercises	0
Maintenance	0
Organization	0
Total	\$78,681.90

VII. Budget Detail:

Cost Category	Description	AEL #	Quantity	Unit Cost	Total
Labor	Tower Climb	06CP-03-TOWR	1	22,458.00	22,458.00
Equipment	Antenna and Cable	06CP-03-NRSC	1	11,580.00	11,580.00

Equipment	Radio, Rack and Backup power supply	06CP-01-REPT	1	11,327.80	11,327.80
Equipment	Combiner, cables and Rack	06CP-02-BRDG	1	32,736.10	32,736.10
Freight			1	580.00	580.00
				GRAND TOTAL	78,681.90

FEMA Authorized Equipment List numbers (AEL #) can be found [HERE](#).

How much of the above project total amount is for Law Enforcement Terrorism Prevention-oriented Activities?

\$56,761.22

VIII. Typed Resources: For FFY 2011 funds and beyond, for each equipment or training expense cited above, please provide the requested information in the table below:

Description (from above table)	Core Capability Supported	NIMS or State/Local Typed Resource Supported (if typing guidance exists at fema.gov/resource-management)
Antennas and Cables	Operational Communications	N/A
Radio/Repeater	Operational Communications	N/A
Combiner	Operational Communications	N/A

List of FEMA's 32 Core Capabilities can be found [HERE](#)

IX. EHP Review:

N/A

X. SIEC Review:

ICIP Cover Sheet

Interoperable Communications Investment Proposal

Please complete all sections except for the shaded areas.

Shaded areas will be completed by the SIEC and the Statewide Interoperability Coordinator (SWIC).

Date Received by the SWIC:		Control #	Proposed Federal Funding Source: SHSP	Proposed Federal Funding Amount: \$56,761.22
Committee Referred to:		Committee Chairperson:		
Investment Name: Worc Area Campus Interop System		Applicant Organization: Worcester EM	Applicant Signature:	
Investment Summary	Purchase, program and install communications infrastructure at the City of Worcester (CoW) Communications Site – Millstone, to create an interoperability communications system between area hospital campuses, higher education campuses, Worcester Regional Emergency Communications Center and the Commonwealth of Massachusetts Interoperable Radio System.			
Statewide Communications Plan (SCIP) Goals addressed by this investment (please indicate all that apply)		<input type="checkbox"/> Governance <input type="checkbox"/> SOP <input type="checkbox"/> Technology	<input type="checkbox"/> Training and Exercise <input checked="" type="checkbox"/> Usage	
Project Start Date: January 2025	Project End Date: September 2025	Is an Environmental and Historic Preservation (EHP) review required for this project? Yes		
Applicant Contact Name: Robert Connley	Phone: 508-799-1389	Email: Connollyr@worcesterm a.gov	Address: 2 Coppage Dr, Worcester, MA 01603	
Review Status			SIEC Member Signature	Date
Assigned to Committee				
Estimated Review Date				
Committee Recommendation to the Executive Management Committee	Approval	Denial	Amend	
Executive Management Committee Recommendation	Approval	Denial	Amend	
SIEC Recommendation	Approval	Denial	Amend	
Applicant notified of Recommendation				

Communications Interoperability Problem Description

There is currently no radio interoperability between Hospital and High Education Public Safety Departments and the Local and State Public Safety entities.

Background/Investment Description

Originally, this project was planned in 2010's. There were several delays and problems that prevented the completion of the project. First the CoW changed from the former EDACS radio system to the current digital Motorola trunked platform. The acquired radio was a surplus radio donated to the project which needed to be reprogrammed and licensed. The 50-year-old surplus combiner supplied by the CoW was found to have multiple broken ports and needed repair. In addition, many of the local campus public safety departments needed to upgrade their radios to accommodate another channel.

Recently, Worcester Emergency Management in conjunction with several of these campus public safety departments have identified through the emergency planning process that re-consideration of this project would greatly enhance response to major public safety events on any of the campuses.

Funding for the purchase and install of a UHF repeater and combiner. Purchase and installation of cable and antennas on the CoW radio tower. Purchase, programming and installation of any needed supplies to connect trunked radio system. Programming of necessary public safety consoles.

Expected Outcomes

Enhancing the protection of soft targets/crowded places as well as, enhancing information and intelligence sharing. These are two of six Homeland Security Priority Areas that require 30% of the funding by DHS/FEMA.

Addressing the Core Capabilities of operational coordination and intelligence and information sharing of the two priority areas by constructing an improved interop communication system.

<p>SCIP Goal- Identify each SCIP goal that this investment will support and describe how that support will be accomplished.</p>	<p>Goal</p>	<p>Describe support</p>
	Governance	
	SOP	
	Technology	
	Training and Exercise	
	Usage	G1 – Develop interoperable communications system for Hospital and Higher Education public safety and state and local public safety.
<p>Ownership- Identify the proposed owners of all assets procured with this investment (add additional lines as needed)</p>	<p>Organization</p>	<p>Asset Description</p>
	CRHSAC & City of Worcester	Radio, combiner, antennas, cables, battery, rack
<p>Usage Plan- Describe the usage plan for the equipment / project</p>	<p>Interop radio system used to connected both Hospital and Higher Education Public Safety Departments with state and local Public Safety Departments.</p>	
<p>Disciplines-</p> <ul style="list-style-type: none"> Identify each responder discipline that will enhance its communications interoperability from this investment Describe the interoperability enhancement 	<p>Discipline</p>	<p>Enhancement</p>
	LE	All disciplines listed will be able to quickly communicate with Hospital and Higher Education Public Safety during day to day operations and for emergent events such as civil unrest or ASHER.
	EMS	
	FS	
	PSC	
<p>Please use the following abbreviations to represent the corresponding discipline:</p>	<p>LE - Law Enforcement; EMS - Emergency Medical Services; EMA - Emergency Management Agency; FS - Fire Service; HZ – HAZMAT; PW - Public Works; PH - Public Health; GA – Governmental Administrative; PSC - Public Safety Communications; HC - Health Care; O-Other</p>	

<p>Multi- Jurisdictional Interoperability-</p> <p>All investments must provide interoperability between two or more jurisdictions.</p> <p>Identify each jurisdiction that will achieve interoperability from this investment.</p>	<p>City of Worcester, State Police, 8 Colleges, 3 Hospitals, UMASS Memorial EMS, Worcester Central Medical Emergency Direction and any users to be invited at a later time. Continued support of Fire District 7 Orange System and 8tac repeater.</p>
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=====PROPOSAL/CONTRACT=====



Industrial Communications LLC
40 Lone Street
Marshfield, MA 02050
781-837-7000 Fax 781-837-4000

Proposal Submitted To: City Of Worcester		Phone 508 561 8862	Date 1-29-2026
Street 50 Officer Manny Familia Way		Job Name	
City, State and Zip Code Worcester Ma 01605		Job Location	
Architect None	Date of Plans None	Attn: Mr. Scott Bollock	Job Phone None

SOW: Repair/replace existing uhf components antennas and cables.

- 1) The current PD458-2N receive antenna is located at 104-118' level on the B leg (north) Rohn 170' self-supporting tower has failed. The antenna is currently fed with 1 5/8" heliax orange/violet. The current (2) transmit antennas located at the 123 & 125' levels on the A&B leg (north) are well beyond their recommended lifespans. In addition, both antennas are currently fed with 7/8" heliax antenna cables tape color white.
- 2) Existing antennas and cables described above are to be removed and using existing side arms, replaced with two Telewave ANT450F6 450-470 MHz antennas with new 7/8" heliax on tower leg B (north) at 104' and 124' levels, and one Telewave ANT450D3 dual dipole antenna utilizing 1/4 wave spacing and a 6.2dB offset pattern on leg A (southwest) at 125' level using a 10' pipe mounted in existing side-arm bracket.
- 3) All heliax cables are to be routed into the existing transmitter building and terminated with new antenna arrestors onto the existing ground bars at entrance panel. Connectors throughout the antenna system shall be only of N type.
- 4) The existing 4' Telewave VHF District 7 fire interop antenna located at the 95' level is to be replaced on same tower, new antenna is located in building at tower location. New antenna is to be installed as per above specifications using existing side mount and cables, a new jumper shall be installed and weatherproofed to existing connections on cable.

Materials 11,580.00
Shipping 580.00
No tax (will need tax form)
Labor 15,000.00
Total 27,160.00

Thank you very much for the opportunity to be of service. Should you have any questions or require any additional information, please do not hesitate to contact me at 781-319-1022

Sincerely,
Bob Campbell

We Propose hereby to furnish material and labor – complete in accordance with above specifications, for the sum of:

As listed (\$ _____).

Payment to be made as follows:

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specification involving extra costs will be executed only upon written orders, and will become an extra charge over and above the sum quoted in this Proposal/Contract. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance. Any and all costs incurred by IC&E to obtain collection shall be added to the balance.

Authorized
Signature _____

Note: This Proposal/Contract may be withdrawn by us if not accepted in __ days.

Acceptance of Proposal - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature _____



48421 Millmont Drive
 Fremont, CA 94538
 sales@telewave.com
 (408) 929-4400
 Fax (408) 929-4080

QUOTATION

Quotation Number 6614
 Customer Purchase #
 Quote Date 02/02/26
 Expiration Date 05/03/26

Customer: 2025104
 CITY OF WORCESTER
 50 Officer Manny Familia Way
 WORCESTER, MA 01605-
 USA

Attention: SSCOTT BULLOCK
 Telephone: 508-799-1720 X29527
 Email: BullockS@worcesterma.gov

Ship to:
 CITY OF WORCESTER
 50 Officer Manny Familia Way
 WORCESTER, MA 01605-
 USA

Rep Firm -

Quote By		Reference	Lead Time	Incoterms	Classification	Terms
Liz Navarro		CITY OF WORCESTER	5 Weeks	EXW Factory (Fremont, California, U.S.A)	SYS	Net 30
ITEM #	QTY.	MODEL	DESCRIPTION		UNIT PRICE (US\$)	EXTENSION (US\$)
			CITY WORCESTER/CAMPUS INTEROP			
			5 CH UHFTX COMBINER & RX MULTICOUPLER			
			REF SCHEMATIC 95233-1-1-A			
4	5	T-4560	400-512 MHZ DUAL ISOLATOR		1,795.57	8,977.85
			TX FREQUENCY REQUIRED			
6	5	TWPC-4508-3Q	3/4 WAVE 8" SINGLE PASS CAVITY		897.21	4,486.06
7	2	TWPC-4505-1M	5" SINGLE PASS CAVITY-PNL MONT		553.99	1,107.99
			REQUIRES FREQUENCY			
9	1	PNL035	PANEL, FRONT 860 COMBINER		292.00	292.00
10	1	5125	POWER MONITOR BRACKET 900 SMR		71.25	71.25
11	1	TW6-450	6-WAY JUNC 300-512MHZ N-F 400W		675.19	675.19
12	1	PM10C2S1C	RF POWER MONITOR PNL		1,586.17	1,586.17
13	10	CO039	CONNECTOR, ELBOW LONG M TO M		72.00	720.00
14	6	PM-2A-450	DUAL PWR MNTR 380-512 MHZ		317.60	1,905.62
			REQUIRES TX FREQUENCY			
16	1	PNL141	PANEL, FRONT 3 & 5" CAVITIES		159.30	159.30
17	13	TW2	CBL RG214/U N-M/N-M CRITICAL		199.33	2,591.24
18	6	CBL003	CABLE, DUAL AUDIO 12 FT		40.00	240.00
19	7	TWPC-4504-1	400-512 MHZ SINGLE PASS CAVITY		597.81	4,184.70
			REQUIRES FREQUENCY			
21	1	PNL023	PANEL, 8-4" CAVITY TPRD-4546		102.00	102.00
22	2	TWCH-2	2 CHANNEL PHASING HARNESS		499.89	999.77
23	1	10830	CABLE, RG214 25.00 CUT LENGTH		101.50	101.50
24	1	TWR8-450-1R	400-512MHZ 8 CH 1RU DIST PANEL		2,727.12	2,727.12
			REQUIRES RX FREQUENCY			
26	3	TWL-01	.25 WATT COAXIAL LOAD N-MALE		53.14	159.42



48421 Milmont Drive
 Fremont, CA 94538
 sales@telewave.com
 (408) 929-4400
 Fax (408) 929-4080

QUOTATION

Quotation Number 6614
Customer Purchase #
Quote Date 02/02/26
Expiration Date 05/03/26

Customer: 2025104
 CITY OF WORCESTER
 50 Officer Manny Familia Way
 WORCESTER, MA 01605-
 USA

Attention: SSCOTT BULLOCK
 Telephone:508-799-1720 X29527
 Email: BullockS@worcesterma.gov

Ship to:
 CITY OF WORCESTER
 50 Officer Manny Familia Way
 WORCESTER, MA 01605-
 USA

Rep Firm -

Quote By		Reference	Lead Time	Incoterms	Classification	Terms
Liz Navarro		CITY OF WORCESTER	5 Weeks	EXW Factory (Fremont, California, U.S.A)	SYS	Net 30
ITEM #	QTY.	MODEL	DESCRIPTION		UNIT PRICE (US\$)	EXTENSION (US\$)
27	1	TBR84-19B-EXT	19 X 84" WITH EXTENDED BASE		1,648.92	1,648.92
28	15	MANF	MANUFACTURING LABOR / / TELEWAVE ONLY PRODUCT NOT SOLD THROUGH DISTRIBUTION DISCOUNT APPLIES TO THIS QUOTE ONLY PO TO REFERENCE EXACT QUOTE DATA (PART NUMBER, QTY, PRICE, QUOTE NUMBER) SHIPPING NOT INCLUDED / / *Any use or reproduction of the information contained within, is strictly prohibited without the expressed written permission of Telewave.io, Inc.		250.00	3,750.00



48421 Milmont Drive
Fremont, CA 94538
sales@telewave.com
(408) 929-4400
Fax (408) 929-4080

QUOTATION

Quotation Number 6614
Customer Purchase #
Quote Date 02/02/26
Expiration Date 05/03/26

Total Net Amount	36,486.10
Total Misc Charges	0.00
Total Freight	0.00
Total Sales Tax	0.00
Total \$USD	36,486.10

Ship Date: 5 Weeks ARO and Notice of Payment Receipt.

Shipping: EXW Factory (Fremont, California, U.S.A.)

Insurance: All Orders with Freight Prepaid or Prepay & Add are Assessed a Self-Insurance Fee

Terms: Quote Valid for 90 Days. Telewave Standard Warranty, Terms and Conditions apply.

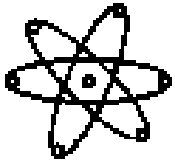
Taxes: Applicable sales tax included with orders, unless purchaser's tax exempt status is verified in advance

Credit Card Fee: All orders paid by credit card are subject to a 3.5% credit card fee: \$1,277.01

Please remit to:

Telewave.io, Inc.
48421 Milmont Dr.
Fremont, CA 94538
EIN: 88-1250952

Account #: 3303675645
Bank: Silicon Valley Bank
Routing #: 121140399
Swift Code: SVBKUS65



WoRAD Inc.

299 Brooks St.
Worcester, MA 01606
Phone #: (508)852-2693

PROPOSAL

EXPIRES 30 DAYS FROM:	NUMBER
1/30/2026	Q101657-3

BILL TO:

mawdsleys@worcesterma.gov
WORC., CITY OF, COMMUNICATIONS
ACCOUNTS PAYABLE
2 Copping Drive
Worcester MA 01603

SHIP TO:

WORC., CITY OF (COMM 270)
2 Copping Drive
Worcester MA 01603
Scott 508-799-1720

QTY	DESCRIPTION	PART NO.	PRICE	TOTAL
1	SLR8000 BASE RADIO 100 WATT CA02962AA - ADD: UHF1 (400-470 MHz) CA02996AA - ADD: WIRELINE	T8319	8,249.60	8,249.60
1	Service Mic	GMMN4063	83.20	83.20
1	Battery Back-up Cable	PMKN4297	91.00	91.00
1	test box speaker	PMKN4166	101.20	101.20
1	BATTERY with BOX	SLA1156	125.00	125.00
5	Jumpers - HELIAX® 1/2 in Superflex (CONNECT 4 EXISTING AND 1 NEW REPEATERS TO COMBINER "N" M CONNECTORS)	FSJ4-50B	146.00	730.00
1	8 ft RG400 JUMPER BNC-BNC		50.00	50.00
5	Jumpers - RG400 (CONNECT 4 EXISTING AND 1 NEW REPEATERS TO multicoupler "N" M CONNECTORS)	RG400 NM-NM	125.00	625.00
50	HELIAX® 1/2 in (2 runs)	LDF4-50A	2.64	132.00
4	Connector	L4TNM-PSA N	17.20	68.80
4	Anchors (connect combiner/multicoupler to new surge arrestors and Install combiner/multicoupler rack and affix to shelter floor)		2.00	8.00
1	Standard Two-Post Relay Rack, 45 RMU		525.00	525.00
1	1/4" x 5/8" x 72" Vertical Mount Ground Bar (Rack Ground)		183.00	183.00
2	12 outlet rack mt w/suppression and emi filter		178.00	356.00
	*** PARTS SUBTOTAL ***			11,327.80
	LABOR (2 men 3 days)		3,708.00	3,708.00

This proposal is provided to you for information purposes only. Additional unforeseen equipment and/or labor may be required at time of service or installation. All work to be done during our normal working hours. Changes to this equipment list and service cost may include:
ANY ELECTRICAL WORK, ROOFING, ROOF FEED THRU HARDWARE, WALL FEED THRU HARDWARE, SPECIALIZED MOUNTING, AND ANY ADDITIONAL TIME DUE TO INSTALLATION PARAMETERS, UNFORSEEN REQUIREMENTS, OR DIFFICULTIES AT SPECIFIED LOCATION.

M. Breed

Prepared by

Customer Acceptance / Date

P.O. NO.:	TERMS
	PO Req NET 30

SUBTOTAL	\$15,035.80
TAX (6.25%)	\$0.00
TOTAL	\$15,035.80