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BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

Trott Engineering Services Proposal for In-Building P25 Testing



Presented to:

Hunt County
2507 Lee Street
Greenville, Texas 75401

January 13, 2025

Trott Communications Group, Inc.
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Introduction

Hunt County (County) has requested Trott Communications Group, Inc. (Trott) to perform in-building testing of the County's new P25 radio system for 57 critical buildings located throughout the County. This coverage testing effort will document the baseline capabilities of the new P25 radio system to communicate in and out of the identified buildings prior to cutover in the February/March 2025 timeframe. The list of buildings to be tested are provided in Attachment 1.

Summary of Testing Process

The in-building testing will be performed by two engineers from Trott with extensive experience with public safety radio systems and in-building testing methodologies. The following is a summary of the overall proposed testing process:

- Trott will assign Barry Black and Tom Murphy to this in-building testing effort
- Trott will work with the County to develop a test schedule and plan
- The County will provide floor plans for all the buildings being tested
- Trott will obtain Google satellite maps for any buildings where floor plan drawings are not available
- The drawings and maps will be used to document where each test is performed inside each building
- Trott will take notes during the testing to further describe, if needed, where a test was conducted if the drawing and/or map lacks sufficient detail
- The County will provide two (2) L3Harris XL-200P portable radios (each with a shoulder mic and two charged batteries) for the testing
- The County will provide a dispatcher and one L3Harris Symphony console position at the Hunt County Sheriff's Office for the testing
- The County will provide up to two talkgroups to use for the testing ("test talkgroup")
- The portable radio and the console must each be programmed to transmit and receive on the identified test talkgroup
- One Trott engineer will be moving throughout the buildings to perform the round-trip (outbound and inbound) testing at each location within the buildings
- Trott may have two engineers in the field testing at the exact same time
- The County will provide a uniformed officer to escort each Trott engineer during the testing
- For each tested location within a building, Trott will test the outbound and inbound voice transmission quality using the test talkgroup
- The County dispatcher stationed at the console will score the inbound for each test location and the Trott engineer inside of the building will score the outbound for each test location
- It will require a minimum of two push-to-talk (PTT) transmissions to score the inbound and outbound for each test location

- DAQ 3.4 or better performance for both inbound and outbound transmissions will be deemed a passing score for each test location (DAQ 3.4 is the public safety standard for delivered voice quality, and it is the standard that L3Harris is contractually obligated to provide to the County)

DAQ scoring criteria is defined as:

DAQ	Definition
1	Unusable. Speech present but not understandable.
2	Speech understandable with considerable effort. Requires frequent repetition due to noise or distortion.
3	Speech understandable with slight effort. Requires occasional repetition due to noise or distortion.
3.4	Speech understandable without repetition. Some noise or distortion present.
4	Speech easily understandable. Little noise or distortion.
4.5	Speed easily understandable. Rare noise or distortion.
5	Perfect. No distortion or noise discernible.

In addition to the DAQ inbound and outbound test (pass/fail), Trott will utilize the RSSI reporting capabilities of the L3Harris XL-200P portable radio to collect an outbound signal level measurement for each test location.

Reporting

A test report will be generated to detail the findings of the in-building testing. The results will be provided per building. Drawings and maps will be included in the report to depict the tested locations, and a spreadsheet will be provided that summarizes the results of the testing. In addition, a Google satellite image and a Google street-view image of each tested building will be provided in the test report.

Pricing

The pricing provided is a not-to-exceed amount that includes expenses and man-hours. Trott anticipates that it will take fifteen (15) days in the field to complete the in-building testing utilizing the testing process and scope described herein. Attachment 1 denotes the anticipated number of hours it will take in the field to test each building (57 total) and to travel to the next building. The pricing provided includes all man-hours for planning, scheduling, field testing and reporting. The proposed cost is **\$38,252.50**. The project can commence once approved by the County.

Attachment 1

Hunt County Buildings Requiring P25 In-Building Testing

#	Location	Address	City	# of Floors	~Hours to Test Bldg
1	Binnion Hall	1500 Education Dr.	Commerce	3	3
2	Boles Elementary	9777 FM 2101	Quinlan	1	1
3	Boles High School	9777 FM 2101	Quinlan	2	2.25
4	Boles Middle School	9777 FM 2101	Quinlan	2	1.5
5	Bowie Elementary	6005 Stonewall St.	Greenville	1	1.5
6	Buc-ee's	5005 I-30	Royse City	1	1
7	Butler Intermediate School	410 Clardy Drive	Quinlan	1	2
8	Caddo Mills High School	3049 S. FM 36	Caddo Mills	2	6.5
9	Caddo Mills Intermediate School	2700 Gilmer	Caddo Mills	1	1.5
10	Caddo Mills Middle School	2710 Gilmer	Caddo Mills	1 or 2	2.5
11	Campbell ISD	409 North St	Campbell	1	1.25
12	Cannon Elementary School	315 South Business Hwy 34	Quinlan	1	1.25
13	Celeste Elementary	605 West Cockrell St.	Celeste	1	1.5
14	Celeste High School	609 FM 1562	Celeste	1	2
15	Celeste Junior High School	207 S. 5th St.	Celeste	1	1.25
16	College BA Building	2008 University Dr.	Commerce	3	2.5
17	College Dorm Phase 2	2501 W. Neal St.	Commerce	4	3.5
18	College Dorm Phase 3	2400 TX-24	Commerce	4	3.5
19	College Dorm Pride Rock	2513 W. Halls	Commerce	3	2.25
20	College Dorm Whitley Hall	2001 Culver	Commerce	11 or 12	4
21	College Field House	1804 Lee St.	Commerce	1	1.25
22	College Library	1805 Lee St.	Commerce	3	2.5
23	College Nursing Building	2210 Tx-24	Commerce	3	3.25
24	College One Stop Shop	2200 Campbell St.	Commerce	1	1
25	College Rayburn Student Center	2200 W. Neal St.	Commerce	2	2.5
26	Commerce City Hall	1119 Alamo St.	Commerce	1	1.25
27	Commerce Elementary	2900 FM 3218	Commerce	1	1.25
28	Commerce Fix N Feed	2550 Mangum St.	Commerce	1	1
29	Commerce High School	3800 Sregit Rd.	Commerce	1	2.5
30	Commerce Library	1210 Park St.	Commerce	1	1
31	Commerce Middle School	3680 Sregit Rd.	Commerce	1	2
32	Ford High School	10064 S. State Hwy Spur 264	Quinlan	2	4
33	Griffis Elementary School (Kathryn Griffis)	3639 FM 1565	Caddo Mills	1	2
34	Home Depot	7101 Centerpoint Ln	Greenville	1	1.25
35	Hunt Regional Emergency Medical Center (ER)	2800 TX-24	Commerce	1	1
36	Hunt Regional Emergency Medical Center (ER)	738 E Quinlan Parkway	Quinlan	1	1
37	Hunt Regional Emergency Medical Center (ER)	6743 I 30	Royse City	1	1
38	Hunt Regional Medical Center (Main Hospital)	4215 Joe Ramsey Blvd	Greenville	7	8
39	Hunt Regional Urgent Care	1704 Live Oak St	Commerce	1	1
40	Hunt Regional Urgent Care	3206 I 30	Greenville	1	1
41	Lee Elementary School	2702 Gilmer	Caddo Mills	1	2
42	Lone Oak Elementary School	8080 US-69	Lone Oak	1	1.75
43	Lone Oak High School	8204 US-69	Lone Oak	1	3
44	Lone Oak Middle School	8160 US-69	Lone Oak	1	2
45	Lowe's	3122 I-30	Greenville	1	1.25
46	North Texas Children's Museum	100 Maple St.	Commerce	1	1
47	Oak Manor Nursing Home	2900 Sterling Hart Dr.	Commerce	1	1
48	Prairie Crossing Apartments	1809 Monroe St.	Commerce	4	2
49	Royse City High School	700 FM 2642	Royse City	1 or 2	5
50	Ruth Cherry Elementary School	1450 Verandah Blvd	Royse City	1	2
51	Thompson Middle School	423 Panther Path	Quinlan	1	1.25
52	Walmart Supercenter	2701 State Hwy 50	Commerce	1	1.25
53	Walmart Supercenter	7401 I-30 Frontage Rd	Greenville	1	1.25
54	Walmart Supercenter	8801 TX-34	Quinlan	1	1.25
55	Wolfe City Elementary	501 W. Dallas Street	Wolfe City	1	1
56	Wolfe City High School	8353 TX-34	Wolfe City	1	2
57	Wolfe City Middle School	409 S. Houston St	Wolfe City	1	2
				Total Testing Hours:	116.5
				Testing Prep./Scheduling:	30
				Travel Time to Market:	36
				Reporting:	36
				Overall Project Hours:	218.50
				Man-Hour Project Cost:	\$36,052.50
				Approx. Days of Testing:	15
				Expenses:	\$2,200.00
				Total Project Cost:	\$38,252.50