

Estimate

DATE	ESTIMATE #
3/3/2026	20260454

NAME / ADDRESS
City of North Richland Hills 4301 City Point Dr. North Richland Hills, TX 76180

JOB SITE
NRH City Hall

TIPS 230105

P.O. NO.	REP	JOB NUMBER
	TBW	

QTY	DESCRIPTION	MPN	COST	TOTAL
4	2 port coax splitter - MSRP- \$137.50 ea	RFS - CS100N2	104.00	416.00
4	3 port coax splitter - MSRP \$152.60 ea.	RFS - CS100N3	117.00	468.00
3	Antenna Mounts - Commscope - MSRP 523.83 ea	SCSM1	351.00	1,053.00
5	Ladder Rack - Chatsworth - MSRP 242.55 ea	10250-724	175.50	877.50
1	Lift - MSRP \$1455 ea		1,170.00	1,170.00
1	Misc. Materials MSRP \$2895		1,163.50	1,163.50
20	N Connectors - JMA- MSRP -\$48.60 ea	UPLMF12LTLP L	33.80	676.00
3	Lighting Protection - Commscope MSRP \$203.50 ea	ATLP200-001	110.50	331.50
3	attenuators - SureCall - MSRP \$ 86.80 ea	RE7002-10	49.40	148.20
1	System amplifiers and head end components - combiners - see attached spreadsheet for MSRP and discount details.		336,404.90	336,404.90
1	Professional Services (DAS designer 150 hrs)		19,760.00	19,760.00
	City of North Richland Hills- City Hall cell DAS - head end replacement. (DAS Technicians 525 hrs.)		44,800.00	44,800.00
	Provide equipment, labor, and materials to install a cell booster system in the City Hall Facility in the City of North Richland Hills.			
	The system will consist of a cellular signal amplifier system that accepts donor signals from the cell carriers (ATT, T- Mobile, Verizon) and re-distributes the signals to the building interior spaces. The system will be carrier agnostic, and will not be limited to a specific carrier. C-Band has not been provided in this proposal, as it is a relatively low capacity site. C-Band capability can be added to this system, but will add approximately \$170K to the system cost.			
			TOTAL	

SIGNATURE

Estimate

DATE	ESTIMATE #
3/3/2026	20260454

NAME / ADDRESS
City of North Richland Hills 4301 City Point Dr. North Richland Hills, TX 76180

JOB SITE
NRH City Hall

P.O. NO.	REP	JOB NUMBER
	TBW	

QTY	DESCRIPTION	MPN	COST	TOTAL
	The system will utilized the existing passive DAS components - cabling, antennas, splitters. Amplifiers will be mounted in the IDF and MDF rooms, and will utilize existing fiber optic cables to reduce installation costs. The existing DAS system fiber and coax distribution will be tested to ensure proper performance for the new system. Any needed repairs to the existing passive distribution system can be accomplished at additional cost. Exterior donor antennas will be mounted on existing mounts or non-penetrating roof sled mounts. Roof penetrations: - plan to use existing roof penetrations to minimize cost and building impact. Amplifiers will use existing power receptacles where possible. If new receptacles are needed, those will be installed by others. The intent of this installation will be to install new DAS active components to eliminate the current system that is no longer supported. Existing distribution cable and antennas will be used to reduce building impact and cost. Since the existing passive components will be re- used, there will be some periods of disruption to the operation of the existing system, and associated user impact. When the new system is installed there will be downtime associated with commissioning and testing the new system. These events will be coordinated with city staff to minimize impact of this work.			
			TOTAL	\$407,268.60

Estimate Approved By

SIGNATURE

MFG	PART #	DONOR ANTENNA ROOF & DONOR FEED	QUANTITY	MSRP	Ext. MSRP	discount
		MDF CELLULAR SIGNAL SOURCE REPEATER				
ADRF	SDRC-CHA-5	19" Rack/Wall Mount Chassis - Supports up to 5 SDRC modules + 1 SDRC-PSU-5	3	\$ 2,795.00	\$ 8,385.00	10%
ADRF	SDR-CHC-V	Optional Channel Combiner for 700 MHz, Cell, PCS, and AWS-1	3	\$ 2,663.78	\$ 7,991.34	10%
ADRF	SDRC-PSU-5	Power Supply Unit - Supports up to 5 SDRC modules	3	\$ 1,337.70	\$ 4,013.10	10%
ADRF	SDRC-17-7F	700 MHz LTE RF Module (57 dB Max Gain, DL- 17 dBm, UL-22dBm Composite Output Power), Supports Band 12, 13, ADX V DAS Head End and Donor Front End	3	\$ 4,420.00	\$ 13,260.00	10%
ADRF	SDRC-17-C	Cellular RF Module (62 dB Max Gain, DL-17 dBm, UL-22dBm Composite Output Power), Supports Band 5, ADX V DAS Head End and Donor Front End	2	\$ 4,420.00	\$ 8,840.00	10%
ADRF	SDRC-17-P	PCS RF MODULE (70 DB Max Gain, DL-17 dBm, UL-22dBm Composite Output Power), Supports Band 25, ADX V DAS Head End and Donor Front End	3	\$ 4,420.00	\$ 13,260.00	10%
ADRF	SDRC-17-A	AWS RF Module (71 dB Max Gain, DL-17 dBm, UL-22dBm Composite Output Power), Supports Band 4 (AWS-1), ADX V DAS Head End and Donor Front End	3	\$ 4,420.00	\$ 13,260.00	10%
		MDF ADXV DAS HEAD END				
ADRF	ADXV-H-NMS-AC	ADX V DAS Head End Chassis + Network Management System + AC Power Supply Unit	2	\$ 6,503.25	\$ 13,006.50	10%
ADRF	ADXV-H-ODU-4	ADX V DAS Head End Optical Donor Unit Module (4 Ports)	3	\$ 3,302.00	\$ 9,906.00	10%
ADRF	ADXV-H-CHC-168-DL-X	ADX V DAS Head End Channel Combiner Module for DL (16 Inputs + 8 Outputs)	1	\$ 4,394.00	\$ 4,394.00	10%
ADRF	ADXV-H-CHC-168-UL-X	ADX V DAS Head End Channel Combiner Module for UL (16 Inputs + 8 Outputs)	1	\$ 4,394.00	\$ 4,394.00	10%
		MDF FIBER FIBER DISTRIBUTION				
TCS	PFW2A	WALL MOUNT FBR PNL 2 ADAPTER PLATE	1	\$ 119.00	\$ 119.00	10%
TCS	FASC-SA-12	FBR ADAPTER SC APC SM 6 FIBR	2	\$ 187.00	\$ 374.00	10%
TCS	ST-M-12	SPLICE TRAY 12 FIBER	2	\$ 432.00	\$ 864.00	10%
TCS	SCPTA9-SM-1	FO PIGTAIL 1M SC APC SM 12STR	24	\$ 87.00	\$ 2,088.00	10%
TCS	FSS-60	FUSION SPLICE SLEEVE HS 60MM -	24	\$ 105.00	\$ 2,520.00	10%
TCS	CACASM-03	Fiber Jumper SC APC-LC SM 3M PS & Cellular Optical Cards to FBR PNL	9	\$ 87.00	\$ 783.00	10%
NANO	SM6T-A2-IOPY	6STR SM ARM 900U INDOOR/OUTDOOR CMP YEL	1750	\$ 4.89	\$ 8,557.50	10%
		IDF FIBER BREAKOUTS				
TCS	PFW2A	WALL MOUNT FBR PNL 2 ADAPTER PLATE	7	\$ 119.00	\$ 833.00	10%
TCS	FASC-SA-6	FBR ADAPTER SC APC SM 6 FIBR	7	\$ 187.00	\$ 1,309.00	10%
TCS	FA-BLNK	FBR ADAPTER BLANK FILLER PLATE	7	\$ 78.00	\$ 546.00	10%
TCS	ST-M-12	SPLICE TRAY 12 FIBER	7	\$ 432.00	\$ 3,024.00	10%
TCS	SCPTA9-SM-1	FO PIGTAIL 1M SC APC SM 1STR	42	\$ 87.00	\$ 3,654.00	10%
TCS	FSS-60	FUSION SPLICE SLEEVE HS 60MM -	42	\$ 105.00	\$ 4,410.00	10%
TCS	CACASM-03	Fiber Jumper SC APC-LC SM 3M FBR PNL TO REMOTE	7	\$ 87.00	\$ 609.00	10%
		IDF CELLULAR REMOTES				
ADRF	ADXV-R-CHA	ADXV: Mid Power Remote Unit Chassis	7	\$ 845.00	\$ 5,915.00	10%
ADRF	ADXV-R-CHC-U	ADXV: Low PIM Universal Channel Combiner	7	\$ 6,240.00	\$ 43,680.00	10%
ADRF	ADXV-R-FAN-DC	Fan for Remote Unit Chassis	7	\$ 427.70	\$ 2,993.90	10%
ADRF	ADXV-R-PSU-AC	ADXV: Power Supply Unit for HPR Unit	7	\$ 2,314.00	\$ 16,198.00	10%
ADRF	ADXV-R-ORU	ADX V DAS Remote Unit Optical Remote Unit Module Supports C Band	7	\$ 13,780.00	\$ 96,460.00	10%
ADRF	ADXV-R-337F	ADX V DAS Remote Unit 700MHz Lower A/B/C + Upper C 33dBm Amplifier Module	7	\$ 2,639.00	\$ 18,473.00	10%
ADRF	ADXV-R-33S8C	ADX V DAS Remote Unit SMR800MHz (Commercial) + Cellular 33dBm Amplifier Module	7	\$ 2,639.00	\$ 18,473.00	10%
ADRF	ADXV-R-37A	ADX V DAS Remote Unit AWS-1 + AWS-3 37dBm Amplifier Module	7	\$ 2,990.00	\$ 20,930.00	10%
ADRF	ADXV-R-37P	ADX V DAS Remote Unit PCS 37dBm Amplifier Module	7	\$ 2,990.00	\$ 20,930.00	10%
WS	402/4.3F-DM/36	WIRELESS SUPPLY - 402/4.3F-DM/36 402 JUMPER CABLE DIN MALE - 4.3 FEMALE	7	\$ 113.50	794.5	10%
Total:		MSRP total:			\$ 375,247.84	
Sell price :		Estimate 20260454 - System amplifiers and Head end components ine item.			\$ 336,404.90	10.40%