



May 28, 2020

ADDENDUM NO. 001 TO SPECIFICATION NO. 1398
Microwave Backbone Tower Sky Mesa, Hunter & Broderson Tank

This addendum to the specifications is for the purpose of adding, clarifying, or deleting certain information to the construction drawings and project specifications as follows:

SECTION 01026 - SCHEDULE OF VALUES

DELETE Schedule of Values and replace with attached

REVISE APPENDIX A, TASK 3 – Antenna Towers as follows:

Provide engineering, design, equipment supply, and field technical supervision for the required antenna towers/monopoles; including but not limited to steel, guys, assembly hardware, anchor materials, base plates, leveling nuts, antenna support brackets and pipes, safety ladders and rest platforms, waveguides or cable raceway, grounding systems with bus and hardware, FAA lighting, FAA painting, guy markers, and accessories.

- Design shall be in accordance with ANSI/TIA-222-~~G~~ **H** Structural Standard for Antenna Support structures and Antennas, **Risk Level IV**.
- Provide and install lattice tower and spread footing tower foundation
 - Complete tower steel and hardware
 - Anchor bolts and templates Required lighting mounts
 - Lightning rod
 - Final erection drawings
- Tower heights will be based on existing tower heights and site constraints
 - Hunter Site: Proposed tower height is 40 feet
 - Broderson Site: Proposed tower height is 60 feet
 - Sky Mesa Site: Proposed tower height is 120 feet
- Provide and install above ground ice-bridge from tower to (existing) shelter
- Stamped Engineering Plans will be required
 - P.E. certified tower profile and foundation drawings
 - Tower analysis: Seismic and wind
- Furnish and install all associated mounting hardware, wiring, piping, insulation, couplings, connectors or other associated items that apply to best practice installation requirements

- Provide three (3) year minimum warranty on all equipment and installation

The District has constructed a 120-foot Rohn communication tower at the Perris Valley Regional Water Reclamation Facility. The District is requesting the contractor to use the tower as a basis of design. The District is requesting a Rohn tower or equal. The tower design drawing is included at the end of this section.

MANDATORY PRE-BID WALK THROUGH

A mandatory pre-bid walk-through meeting was conducted on 5/11/2020 at 11:00 a.m.

Public Works Projects add: NOTE: Refer to EMWDs website to obtain the Pre Bid Walk-Through Sign-In Sheet.

QUESTIONS & ANSWERS

Jitney Company, Inc.

Q1. Are permits going to be required with city or County?

If so, has anything been put thru zoning?

A1. Permits are not required with the city or County.

Q2. Are there existing soils report for each location?

If not, the foundation design will only be preliminary until we have one and then there might be a change from the bid to the actual design.

A2. There are no existing soils report for each location. Contractors are to perform all necessary site investigations such as land surveying and geotechnical investigation. Refer to Appendix A for design requirements.

Q3. Are we going to be generating a complete set of drawing with site plan and all work to be provided?

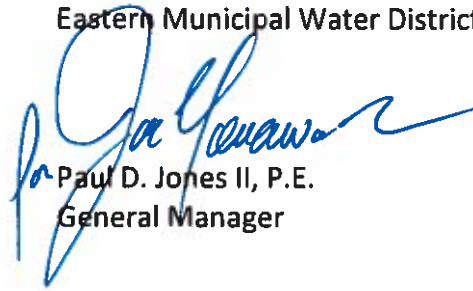
A3. Yes, contractor will be required to generate a complete set of drawings for review and approval prior to any construction on site.

Q4. Do you have a loading for each tower for the design?





A4. The tower loading is shown in the attached tower elevation drawings.

- Q5. ON the SOV it calls out for a 120' tower at each site but in the Preliminary and final design section it calls out for hunter 40', Broderon 60', and Sky Mesa 120'. Which is correct?
- A5. The SOV has been revised as part of this addenda. The desired tower heights will be Hunter 40', Broderon 60', and Sky Mesa 120'.
- Q6. Has any coordination with the FAA happened yet?
- A6. No. Contractor is to coordinate with the District for FAA approval.
- Q7. How is the final location for the towers to be determined, at the bid walk?
- A7. The final location will be determined during the design phase. Contractor will be required to submit a preliminary design as well as conduct a preliminary design workshop to discuss the design, construction schedule, costs constraints, and transition to final design.
- Q8. Are you going to require a grounding system to be installed at the tower?
- If FAA has not been approached we will not know if tower lighting is required for each location. Rule of thumb is anything over 200' automatically requires tower lighting. On shorter towers it depends on airports and flight paths.
- A8. Yes, a grounding system is to be installed.
- Q9. I know you sent an example of ROHN but we can use an or equal right?
- A9. Yes, contractors can use an or equal. The District has constructed a 120-foot Rohn communication tower at the Perris Valley Regional Water Reclamation Facility. The District is requesting the contractor to use the tower as a basis of design. The tower design shall be in accordance with ANSI/TIA-222-H, Structural Standard for Antenna Support structures and Antennas, Risk Level IV.

Eastern Municipal Water District



Paul D. Jones II, P.E.
General Manager

PE: 
PM: 
DFE: 
DE: 

PDJ:ES:ma:ae

ATTACHMENTS: Schedule of Values
 Tower Elevation Drawings

SPECIFICATIONS - DETAILED PROVISIONS

Section 01026 - Schedule of Values

ADDENDUM NO. 1

TABLE OF CONTENTS

PART 1 - GENERAL	1
1.01 SUMMARY.....	1
1.02 PREPARATION	1
1.03 SUBMITTAL.....	1
PART 2 - EXECUTION	2
2.01 SAMPLE SCHEDULE OF VALUES	2

[PAGE LEFT INTENTIONALLY BLANK]

SECTION 01026
SCHEDULE OF VALUES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Preparation, format, and submittal of Schedule of Values.
- B. The Schedule of Values will establish unit prices for individual items of work.
- C. The Schedule of Values will be the basis for payment of contract work and will be used to establish payment for any “extra work” i.e., work requested which is beyond the scope of the original contract.

1.02 PREPARATION

- A. Prepare satisfactory Schedule of Values identifying costs of items of work shown in sample included at the end of the Section.
- B. Assign unit prices to items of work and calculate total prices, which aggregate the Contract Price. Base unit prices on costs associated with scheduled activities for each item of work. ***For any bid item broken down into unit prices, Contractor shall verify that the unit cost of the items does not extend beyond two decimal places and that the unit cost when multiplied by the unit quantity equals the exact bid item value with no remainder.***

1.03 SUBMITTAL

- A. Submit preliminary Schedule of Values at the preconstruction meeting to the District for review and approval. DO NOT SUBMIT THE SCHEDULE OF VALUES WITH YOUR BID PACKAGE.
- B. Submit corrected Schedule of Values within ten (10) days upon receipt of reviewed or rejected Schedule of Values for approval by the District.
- C. Upon request, support prices with data which will substantiate their correctness.

PART 2 - EXECUTION

2.01 SAMPLE SCHEDULE OF VALUES

The following is a sample and acceptable form for Schedule of Values.

The District may request additional detail as necessary to adequately represent the Scope of Work. The contractor may provide an additional breakdown of any of the items listed below. **THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND ITEMS OF WORK PRIOR TO SUBMITTAL.**

SCHEDULE OF VALUES

Item No.	Qty	Unit	Description	Unit Cost	Total Cost
1	1	LS	Mobilization and Approved: Bonds, Insurance, Schedule of Values.	Preset	\$17,500
			Design, Furnish and install self- supported lattice tower at the Broderson Tank Repeater Site		
2	1	LS	Design Task 1 – Project Management		
3	1	LS	Design Task 2 – Electrical and Communication System Evaluation		
4	1	LS	Design Task 3 – Antenna Tower		
5	1	LS	Design Task 4 – Preliminary Design		
6	1	LS	Design Task 5 - Investigations		
7	1	LS	Design Task 6 – Preparation of Contract Documents		
8	1	LS	Construction - Mobilization		
9	1	LS	Construction – Grading and Excavation		
10	1	LS	Construction – Concrete/Foundation		
11	1	LS	Construction – Tower Erection		

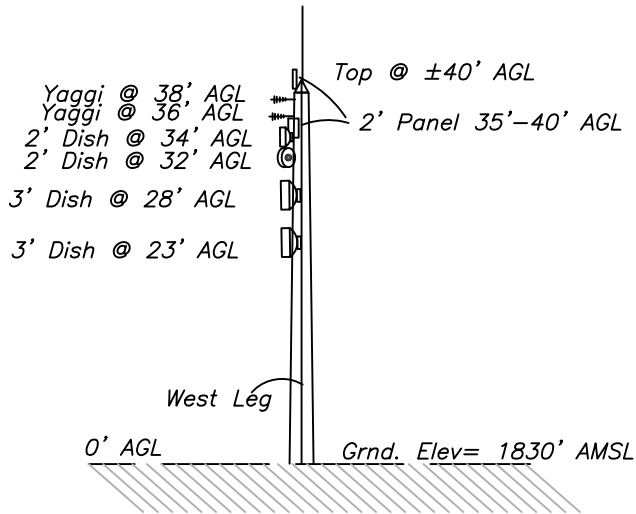
Item No.	Qty	Unit	Description	Unit Cost	Total Cost
12	1	LS	Construction – Ice Bridge		
			Design, Furnish and install self- supported lattice tower at the Sky Mesa Tank Repeater Site		
13	1	LS	Design Task 1 – Project Management		
14	1	LS	Design Task 2 – Electrical and Communication System Evaluation		
15	1	LS	Design Task 3 – Antenna Tower		
16	1	LS	Design Task 4 – Preliminary Design		
17	1	LS	Design Task 5 - Investigations		
18	1	LS	Design Task 6 – Preparation of Contract Documents		
19	1	LS	Construction - Mobilization		
20	1	LS	Construction – Grading and Excavation		
21	1	LS	Construction – Concrete/Foundation		
22	1	LS	Construction – Tower Erection		
23	1	LS	Construction – Ice Bridget		
			Design, Furnish and install self- supported lattice tower at the Hunter Tank Repeater Site		
24	1	LS	Design Task 1 – Project Management		
25	1	LS	Design Task 2 – Electrical and Communication System Evaluation		
26	1	LS	Design Task 3 – Antenna Tower		
27	1	LS	Design Task 4 – Preliminary Design		

Schedule of Values
01026-4

Item No.	Qty	Unit	Description	Unit Cost	Total Cost
28	1	LS	Design Task 5 - Investigations		
29	1	LS	Design Task 6 – Preparation of Contract Documents		
30	1	LS	Construction - Mobilization		
31	1	LS	Construction – Grading and Excavation		
32	1	LS	Construction – Concrete/Foundation		
33	1	LS	Construction – Tower Erection		
34	1	LS	Construction – Ice Bridget		
TOTAL (MUST EQUAL BID AMOUNT)					

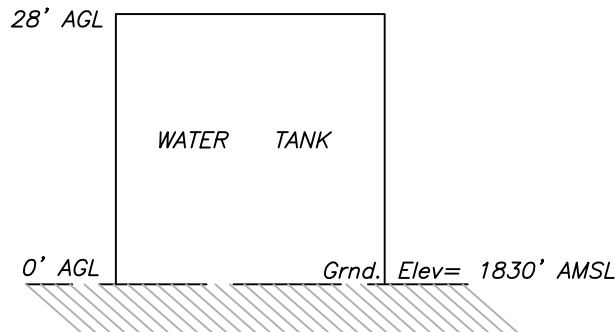
**DO NOT SUBMIT THE SCHEDULE OF VALUES
WITH YOUR PROPOSAL PACKAGE**

END OF SECTION 01026



EAST ELEVATION

NOTE; The path to Daniel Pk & Perris requires fabrication of a mount on the water tank to achieve a workable path due to local trees.



NOKIA

E.M.W.D.

**BRODERSON
TOWER ELEVATION**

Pathfinder Surveys
Santa Fe, New Mexico
(505) 471-6660

SCALE 1"=20'
DRAWN BY MJS
DATE JAN. 2017

REVISION
9966

AGL denotes Above Ground Level
AMSL denotes Above Mean Sea Level

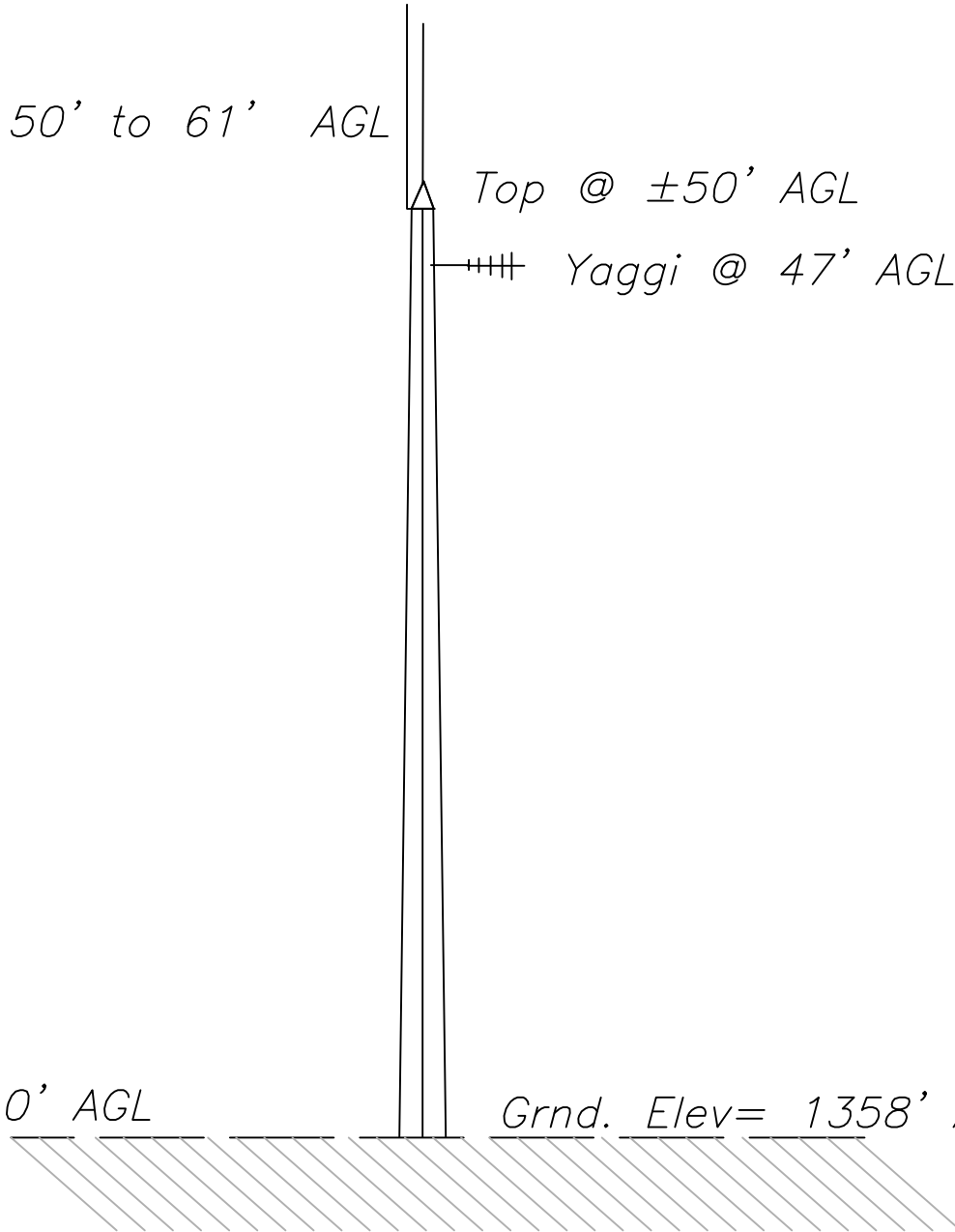
Whips @ 50' to 61' AGL

Top @ ±50' AGL

Yaggi @ 47' AGL

0' AGL

Grnd. Elev = 1358' AMSL



NOKIA

EAST ELEVATION

AGL denotes Above Ground Level
AMSL denotes Above Mean Sea Level

E.M.W.D.		
HUNTER TANK TOWER ELEVATION		
Pathfinder Surveys Santa Fe, New Mexico (505) 471-6660	SCALE 1"=10' DRAWN BY MJS DATE JAN. 2017	REVISION 9966

Top Tower 100' AGL

Whip Mast 88'-99' AGL

Whip Mast 72'-95' AGL

Whip Mast 72'-86' AGL

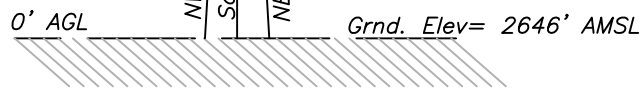
Yaggi @ 48' AGL

Yaggi @ 44' AGL

2' Panel @ 42' AGL
Dir. SW.

Whip Mast 39'-47' AGL

Tower Orientation



SOUTH ELEVATION

NOKIA

E.M.W.D.

SKY MESA TOWER ELEVATION

AGL denotes Above Ground Level
AMSL denotes Above Mean Sea Level

Pathfinder Surveys Santa Fe, New Mexico (505) 471-6660	SCALE 1"=20' DRAWN BY MJS DATE JAN. 2017	REVISION 9966
--	--	------------------