Arthur Doak

From: Rodolfo Bonacci
Sent: Monday, December 07, 2015 1:29 PM
To: Arthur Doak
Subject: FW: Henderson NV antenna 302 app
Attachments: IA18730-2 A.pdf; VERTICAL PLANE PLOT 8 Bay Full wave DI8BAYFW.pdf

FYI

From: Nass, E. Lanny [mailto:elnass@cbs.com]
Sent: Monday, December 07, 2015 1:25 PM
To: Rodolfo Bonacci <Rodolfo.Bonacci@fcc.gov>
Subject: Henderson NV antenna 302 app

Rudy,

As a result of the antenna modification, all areas on the ground and rooftop are now in compliance with the MPE rules. No areas within the fenced area (treated and defined as occupational) exceed the OCCUPATIONAL MPE levels. No areas outside of the restricted / fenced areas exceed the NON OCCUPATIONAL (general public) MPE levels. The fence is and has always been appropriately signed by the site owner, American Tower Corporation.

The recommendations on the report generated by Hatfield and Dawson were a result of pre antenna modification measurements. The modified antenna resolved all of the reported RF exposure issues.

The antenna is a custom ERI designed antenna consisting of (4) groups of 2 bays. The spacing between elements on the 2 bays is 3/4 wave. The spacing between each 2 bay group is full wave. I'm not sure how one would describe this on the application since there is only one section that allows spacing description. ERI calls is eccentrically spaced.

Attached is elevation plot of the measured antenna as well as a drawing for the antenna.

Hope this helps. If not, please let me know.

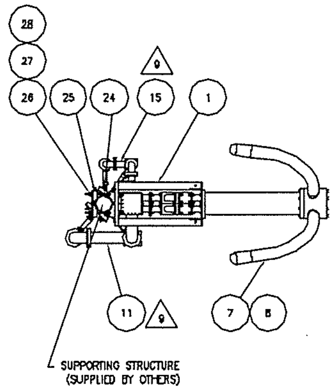
Thanks for bringing this to my attention .

Lanny

CBS
E. Lanny Nass, Director of Spectrum Management
1800 K Street NW, Suite 920
Washington, DC 20006
(202) 4574602 w

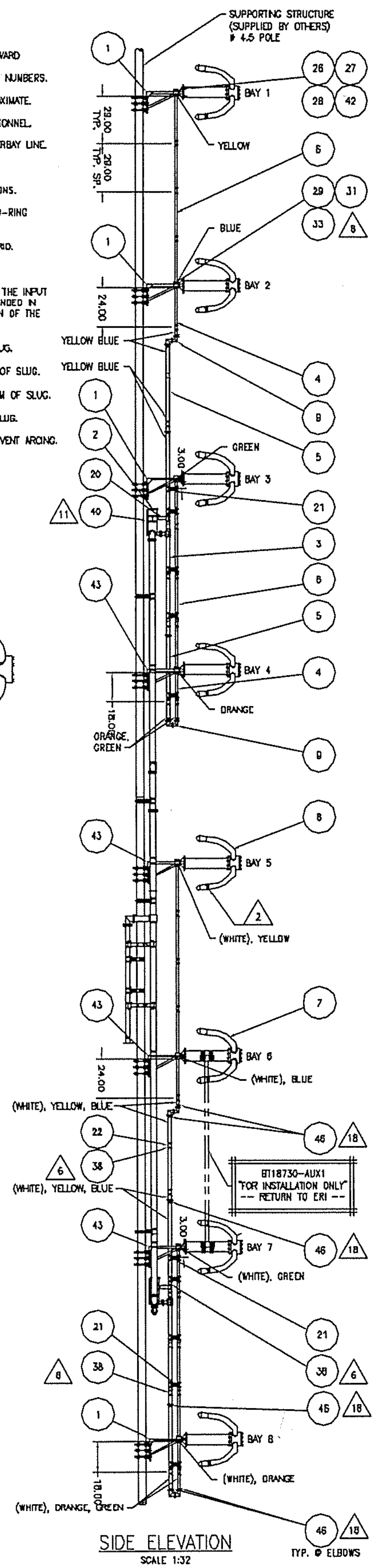
NOTES:

1. INTERPRET DRAWING PER ASME Y14.5M-1994.
2. (△2) ALL RED BANDS DESIGNATE SIDE TO BE MOUNTED DOWNWARD
3. ASSEMBLE ANTENNA SYSTEM BY MATING CORRESPONDING NUMBERS.
4. OVERALL LENGTH OF ANTENNA SYSTEM IS 72'-7" APPROXIMATE.
5. FINAL ORIENTATION TO BE DETERMINED BY STATION PERSONNEL.
6. (△6) HOSE CLAMPS USED TO SECURE LINE BRACKETS TO INTERBAY LINE.
8. (△8) APPLY 1/2 GREASE PACKET TO EACH O-RING.
9. (△9) CENTERFEED CAN BE ROTATED TO AVOID ANY OBSTRUCTIONS.
10. ELBOWS & REDUCERS COME WITH BULLET, INSULATOR, O-RING & HARDWARE ONE SIDE.
11. (△11) (4) HOSE CLAMPS ARE REQUIRED TO SECURE EACH HYBRID.
12. WHITE TAPE DESIGNATES LOWER (4) BAYS.
13. (△13) WARNING, CABLE AND RIGID LINE CONNECTIONS MADE TO THE INPUT MUST BE NOT ONLY SECURED TO THE TOWER BUT GROUNDED IN SUCH A WAY AS TO NOT INTERFERE WITH THE OPERATION OF THE ANTENNA. SEE INSTRUCTIONS ON CABLE DI ANTENNAS.
14. (△14) 3/8" SLUG - 2" BOTTOM OF INNER TO BOTTOM OF SLUG.
15. (△15) 1/2" SLUG - 28 7/8" BOTTOM OF INNER TO BOTTOM OF SLUG.
16. (△16) 1 5/8" SLUG - 35 3/4" BOTTOM OF INNER TO BOTTOM OF SLUG.
17. (△17) 1 5/8" SLUG - 35 3/4" TOP OF INNER TO TOP OF SLUG.
18. (△18) HOSE CLAMPS MUST BE INSTALLED AT FLANGES TO PREVENT ARCING.



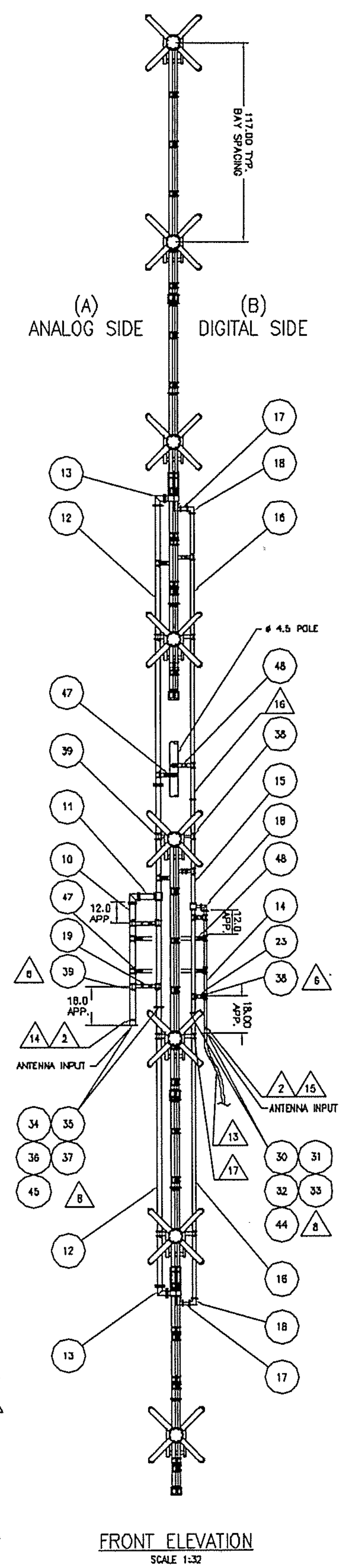
PLAN VIEW

SCALE 1:18



SIDE ELEVATION

SCALE 1:32



FRONT ELEVATION

SCALE 1:32

THIRD ANGLE PROJECTION

ZONE	REV	DESCRIPTION	DATE	APPROVED
A6	A	ADD NOTE 18	07/3/9	

DRAWN BY L. SEIBERT 07/7/22

B. MUENER 07/7/28

G. HUMBERT 07/7/28

ERI ELECTRONICS RESEARCH, INC.

INSTALLATION / ELEVATIONS & VIEWS
DI-8A-SP HENDERSON, NY ON 100.5

SIZE D — CAGE CODE 0DNS1 — DWG NO. IA18730-2 — REV A

SHEET 1 OF 1

ELECTRONICS RESEARCH,INC.
7777 GARDNER ROAD
CHANDLER, IN. 47610

FIGURE 1

----THEORETICAL----
VERTICAL PLANE RELATIVE FIELD

8 LEVELS OF ERI TYPE DI [DUAL-INPUT] ELEMENTS
0 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL
POWER GAIN IS 4.486 IN THE HORIZONTAL PLANE(4.486 IN THE MAX.)

MARCH 7, 2007

BAY SPACING:
FULL WAVE