PETITION FOR ZONING VARIANCE 84-131-SPHA

TO THE ZONING COMMISSIONER OF BALTIMORE COUNTY:

The undersigned, legal owner(s) of the property situate in Baltim: County and which is described in the description and plat attached hereto and made a part hereof, hereby petition for a

Variance from Section s 250.1, 250.2 and 250.3 (to the extent the same may be applicable) to permit the guy lines and footings of a proposed 515' radio tower to be constructed closer to the front, side and rear property lines than permitted, namely, a front yard set back of 30 feet in lieu of the required 50 foot set back, side yard setbacks of 5 feet in lieu of the required 30 feet and combined sideyard setbacks of 10 feet in lieu of the required sum of 80 feet, and a rear yard set back of 30 feet in lieu of the required 40 feet.

of the Zoning Regulations of Baltimore County, to the Zoning Law of Baltimore County; for the following reasons: (indicate hardship or practical difficulty)

(1) From an engineering and stability standpoint, the guy line footings cannot be positioned more distant from the property lines than as presently shown on the plat;

(2) Practical difficulty and unreasonable hardship will result if a minimum 515' tower cannot be built in order to correct directionalization problems with the studio's signal caused by the topography of the area and the present inadequate tower.

Property is to be posted and advertised as prescribed by Zoning Regulations.

I, or we, agree to pay expenses of above Variance advertising, posting, etc., upon filing of this petition, and further agree to and are to be bound by the zoning regulations and restrictions of Baltimore County adopted pursuant to the Zoning Law For Baltimore County.

I/We do solemnly declare and affirm, under the penalties of perjury, that I/we are the legal owner(s) of the property which is the subject of this Petition.

Contract Purchaser:

(Type or Print Name)

Signature

Address

City and State

Legal Owner(s): Peter and John Radio Fellowship, Inc.

By: Rev. Peter Bisset - Vice President
(Type or Print Name)

Rev. Peter Bisset - Vice President
Signature

(Type or Print Name)

Signature

Attorney for Petitioner:
Nolan, Plumhoff & Williams, Chartered
By:
(Type or Print Name) Stephen J. Nolan

Stephen J. Nolan
Signature

204 W. Pennsylvania Avenue
Address

Towson, Maryland 21204
City and State

Attorney's Telephone No.: 823-78..

3600 Georgetown Road
Address Phone No.

Baltimore, Maryland 21227 247-4100
City and State

Name, address and phone number of legal owner, contract purchaser or representative to be contacted

Stephen J. Nolan
Name

204 W. Pennsylvania Ave., Towson, Md. 21204
Address Phone No. 823-7800

ORDERED By The Zoning Commissioner of Baltimore County, this 11th day of October, 1983, that the subject matter of this petition be advertised, as required by the Zoning Law of Baltimore County, in two newspapers of general circulation throughout Baltimore County, that property be posted, and that the public hearing be had before the Zoning Commissioner of Baltimore County in Room 106, County Office Building in Towson, Baltimore County, on the 15th day of November, 1983, at 10:15 o'clock A. M.

Arnold Jablon
Zoning Commissioner of Baltimore County.

(over)

Peter & John Radio Fellowship, Inc.
SE/S Old Georgetown Rd., 4,400' SW of c/l of Joh Avenue
84-131-SPHA
13th

84-131-SPHA #28

84-131-SPHA #28

PETITION FOR SPECIAL HEARING 84-131-SPHA

TO THE ZONING COMMISSIONER OF BALTIMORE COUNTY:

The undersigned, legal owner(s) of the property situate in Baltimore County and which is described in the description and plat attached hereto and made a part hereof, hereby petition for a Special Hearing under Section 500.7 of the Baltimore County Zoning Regulations, to determine whether or not the Zoning Commissioner and/or Deputy Zoning Commissioner should approve an amendment and modification to the site plan and Order in special exception case 5767XA, to permit an additional, more modern radio tower for Station WRBS, to better serve its listening audience.

Property is to be posted and advertised as prescribed by Zoning Regulations.

I, or we, agree to pay expenses of the above Special Hearing advertising, posting, etc., upon filing of this Petition, and further agree to and are to be bound by the zoning regulations and restrictions of Baltimore County adopted pursuant to the Zoning Law for Baltimore County.

I/We do solemnly declare and affirm, under the penalties of perjury, that I/we are the legal owner(s) of the property which is the subject of this Petition.

Contract Purchaser:

(Type or Print Name)

Signature

Address

City and State

Attorney for Petitioner: NEWTON A. WILLIAMS & NOLAN, PLUMHOFF & WILLIAMS, CHTD.
(Type or Print Name)

Newton A. Williams, Nolan, Plumhoff & Williams
Signature

204 W. Pennsylvania Avenue
Address

Towson, Maryland 21204
City and State

Attorney's Telephone No.: 823-7800

Legal Owner(s):

PETER & JOHN RADIO FELLOWSHIP, INC.
(Type or Print Name)

Peter Bisset
Signature PETER BISSET

PETER BISSET
(Type or Print Name)

Signature

Radio Station WRBS
3600 Georgetown Road 247-4100
Address Phone No.

Baltimore County, Maryland 21227
City and State

Name, address and phone number of legal owner, contract purchaser or representative to be contacted

Mr. J. Thomas Bisset
Name

3600 Georgetown Road, Baltimore, MD 21227
Address Phone No. 247-4100

MAP 12 SW 4-C
ELECTION DISTRICT 13
DATE 5/11
TYPE HEARING SPH
BY
FINAL BY

ORDERED By The Zoning Commissioner of Baltimore County, this 11th day of October, 1983, that the subject matter of this petition be advertised, as required by the Zoning Law of Baltimore County, in two newspapers of general circulation throughout Baltimore County, that property be posted, and that the public hearing be had before the Zoning Commissioner of Baltimore County in Room 106, County Office Building in Towson, Baltimore County, on the 15th day of November, 1983, at 10:15 o'clock A. M.

Arnold Jablon
Zoning Commissioner of Baltimore County.

Z.C.O.—No. 1

(over)

ORDER RECEIVED FOR FILING
DATE November 22, 1983
BY Mary Campagna (Clerk)

BALTIMORE COUNTY ZONING PLANS ADVISORY COMMITTEE

PETITION AND SITE PLAN

EVALUATION COMMENTS

BALTIMORE COUNTY, MARYLAND

INTER-OFFICE CORRESPONDENCE

TO: Arnold Jablon, Zoning Commissioner
Date: October 24, 1983

FROM: Norman E. Gerber, Director, Office of Planning and Zoning

SUBJECT: Peter and John Radio Fellowship, Inc. 84-131-SpH

Assuming the proposed tower is of "collapsable type" so that , if damaged, it would pose no threat to adjacent properties, this office has no comment to offer.

Norman E. Gerber per JG Hoswell
Norman E. Gerber
Director of Planning and Zoning

NEG:JGH:cav

Newton A. Williams, Esquire
204 West Pennsylvania Ave
Towson, Md. 21204

The Shenk Corp.
43 East Lee Street
Bel Air, Md. 21014

BALTIMORE COUNTY OFFICE OF PLANNING & ZONING

County Office Building
111 W. Chesapeake Avenue
Towson, Maryland 21204

Your petition has been received and accepted for filing this 11th day of October, 1983.

ARNOLD JABLON
Zoning Commissioner

Petitioner Peter & John Fellowship, Inc.
Petitioner's Attorney Newton A. Williams, Esq.

Received by: Nicholas B. Commodari
Chairman, Zoning Plans Advisory Committee

BALTIMORE COUNTY ZONING PLANS ADVISORY COMMITTEE

COUNTY OFFICE BLDG.
111 W. Chesapeake Ave.
Towson, Maryland 21204

oOo

Nicholas B. Commodari
Chairman

MEMBERS
Bureau of Engineering
Department of Traffic Engineering
State Roads Commission
Bureau of Fire Prevention
Health Department
Project Planning
Building Department
Board of Education
Zoning Administration
Industrial Development

November 9, 1983

Newton A. Williams, Esquire
204 West Pennsylvania Avenue
Towson, Maryland 21204

RE: Item No. 28 - Case No. 84-131-SPHA
Peter & John Radio Fellowship, Inc.
Special Hearing and Variance

Dear Mr. Williams:

The Zoning Plans Advisory Committee has reviewed the plans submitted with the above referenced petition. The following comments are not intended to indicate the appropriateness of the zoning action requested, but to assure that all parties are made aware of plans or problems with regard to the development plans that may have a bearing on this case. The Director of Planning may file a written report with the Zoning Commissioner with recommendations as to the suitability of the requested zoning.

Particular attention should be afforded to the comments of the Department of Permits and Licenses.

Enclosed are all comments submitted from the members of the Committee at this time that offer or request information on your petition. If similar comments from the remaining members are received, I will forward them to you. Otherwise, any comment that is not informative will be placed in the hearing file. This petition was accepted for filing on the date of the enclosed filing certificate and a hearing scheduled accordingly.

Very truly yours,

Nicholas B. Commodari /bsc
NICHOLAS B. COMMODARI
Chairman
Zoning Plans Advisory Committee

NBC:bsc
Enclosures
cc: The Shenk Corp.
43 East Lee Street
Bel Air, Maryland 21014

BALTIMORE COUNTY
DEPARTMENT OF PUBLIC WORKS
TOWSON, MARYLAND 21204

HARRY J. PISTEL, P. E.
DIRECTOR

G-SW Key Sheet
16 SW 12 Pos.Sheet
SW 4 C Topo
102 Tax Map

September 2, 1983

Mr. Arnold Jablon
Zoning Commissioner
County Office Building
Towson, Maryland 21204

Re: Item #28 (1983-1984)
Property Owner: Peter & John Radio Fellowship, Inc.
S/ES Old Georgetown Rd. 4,400' S/W from centerline Joh Avenue
Acres: 1.59 District: 13th

Dear Mr. Jablon:

The following comments are furnished in regard to the plat submitted to this office for review by the Zoning Advisory Committee in connection with the subject item.

General:

Baltimore County highway and utility improvements are not directly involved.

Development of this property through stripping, grading and stabilization could result in a sediment pollution problem, damaging private and public holdings downstream of the property. A grading permit is, therefore, necessary for all grading, including the stripping of top soil.

The Petitioner must provide necessary drainage facilities (temporary or permanent) to prevent creating any nuisances or damages to adjacent properties, especially by the concentration of surface waters. Correction of any problem which may result, due to improper grading or improper installation of drainage facilities, would be the full responsibility of the Petitioner.

The Lansdowne Road Extension is proposed to be constructed to the north and east of this property. The alignment, elevation and slopes for this proposed highway may impact the access for this property. Further information may be obtained from this office.

Very truly yours,

ROBERT A. MORTON, P.E., Chief
Bureau of Public Services

RAM:EAM:FWR:ss

cc: John Trenner-Attn: John Klass
Paul Koch

Maryland Department of Transportation
State Highway Administration

Lowell K. Bridwell, Secretary
M. S. Caltrider, Administrator

August 3, 1983

Mr. William Hammond
Zoning Commissioner
County Office Building
Towson, Maryland 21204

Attention: Mr. N. Commodari

Re: ZAC Meeting of 8-2-83
ITEM: #28.
Property Owner: Peter & John Radio Fellowship, Inc.
Location: SE/S Old Georgetown Road 4,400' S/W from centerline Joh Avenue @ I-95
Existing Zoning: MLR-IM
Proposed Zoning: Special Exception to approve an amendment and modification to the site plan and order in Special Exception Case #5767-XA to permit an additional, more modern radio tower for Station WRBS, as to serve its listening audience.
Acres: 1.59
District: 13th

Dear Mr. Hammond:

On review of the site plan of March 25, 1983, the State Highway Administration finds the plan generally acceptable.

Very truly yours,

Charles Lee
Charles Lee, Chief
Bureau of Engineering
Access Permits

By: George Wittman

CL:GW:maw

cc: Mr. J. Ogle

My telephone number is (301) 659-1350
Teletypewriter for Impaired Hearing or Speech
383-7555 Baltimore Metro — 565-0451 D.C. Metro — 1-800-492-5062 Statewide Toll Free
P.O. Box 717 / 707 North Calvert St., Baltimore, Maryland 21203 - 0717

Pursuant to the advertisement, posting of property, and public hearing on the Petition and it appearing that strict compliance with the Baltimore County Zoning Regulations would/~~would not~~ result in practical difficulty and unreasonable hardship upon the Petitioner(s) and the granting of the variance(s) requested will/will not adversely affect the health, safety, and general welfare of the community, the variance(s) should /~~should not~~ be granted.

Therefore, IT IS ORDERED by the Deputy Zoning Commissioner of Baltimore County, this 21st day of November, 1983, that the herein Petition for Variance(s) to permit side yard setbacks of 5 feet in lieu of the required 30 feet, combined side yard setbacks of 10 feet in lieu of the required sum of 80 feet, and a rear yard setback of 30 feet in lieu of the required 40 feet for the expressed purpose of constructing footings and guy lines for a 515 foot radio tower, in accordance with Petitioner's Exhibit 1, is hereby GRANTED, from and after the date of this Order, subject, however, to the terms, provisions, and conditions contained in the accompanying Special Hearing Order.

IT IS FURTHER ORDERED that the Petition for Variance to permit a front yard setback of 30 feet in lieu of the required 50 feet be and the same is hereby DENIED.

Deputy Zoning Commissioner of Baltimore County

Pursuant to the advertisement, posting of property, and public hearing on the Petition and it appearing that by reason of the following finding of facts to amend the site plan filed in Case No. 5767-XA to construct a 515 foot radio tower, would be in strict harmony with the spirit and intent of the Baltimore County Zoning Regulations and would not be detrimental to the health, safety, and general welfare of the community; and, therefore,

IT IS ORDERED by the Deputy Zoning Commissioner of Baltimore County, this 21st day of November 1983, that the amendment to the site plan filed in Case 5767-XA to permit the construction of a 515 foot radio tower, in accordance with the site plan prepared by the Shenk Corporation, revised October 11, 1983, and marked Petitioner's Exhibit 1, is approved, and, as such, the Petition for Special Hearing is hereby GRANTED, from and after the date of this Order, subject, however, to the following restrictions:

1. Use of strobe lights shall be limited to daytime use unless otherwise specifically required by FCC or FAA rules and regulations.
2. Compliance with the revised comments, undated, by the Department of Permits and Licenses.
3. All structures, buildings, towers, guy line, facilities, etc. shall be enclosed by a security fence.
4. At such time as the use is terminated, the towers shall be removed.
5. Every five years a certification by a Maryland registered professional engineer shall be filed with the Department of Permits and Licenses indicating that both towers continue to meet all safety requirements. Any upgrading or maintenance required to comply with any changes in the safety thereof, shall be performed prior to the filing of such certification.
6. Approval of the aforementioned site plan by the Maryland Department of Transportation and the Office of Planning and Zoning.

Deputy Zoning Commissioner of Baltimore County

ORDER RECEIVED FOR FILING
DATE December 22, 1983
BY Mary Simpson Clerk
Administrative Assistant

BALTIMORE COUNTY
DEPARTMENT OF TRAFFIC ENGINEERING
TOWSON, MARYLAND 21204
494-3550

STEPHEN E. COLLINS
DIRECTOR

September 1, 1983

Mr. William Hammond
Zoning Commissioner
County Office Building
Towson, Maryland 21204

Item No. 26, 27, (28) 29, 31, 32, 33, 34. ZAC - Meeting of August 2, 1983
Property Owner:
Location:
Existing Zoning:
Proposed Zoning:

Acres:
District:

Dear Mr. Hammond:

The Department of Traffic Engineering has no comments for item numbers 26, 27, 28, 29, 31, 32, 33, and 34.

Michael S. Flanigan
Traffic Engineering Assoc. II

MSF/ccm

Aug 17, 1983
Date

BALTIMORE COUNTY DEPARTMENT OF HEALTH

Zoning Commissioner
Office of Planning and Zoning
County Office Building
Towson, Maryland 21204

Zoning Item # 28, Zoning Advisory Committee Meeting of August 2, 1983
Property Owner: Peter + John Radio Fellowship, Inc.
Location: SE/S Old Georgetown Road District 13
Water Supply private Sewage Disposal private

COMMENTS ARE AS FOLLOWS:

( ) Prior to approval of a Building Permit for construction, renovation and/or installation of equipment for any existing or proposed food service facility, complete plans and specifications must be submitted to the Plans Review Section, Environmental Support Services, for final review and approval.

( ) Prior to new installation/s of fuel burning equipment, the owner should contact the Division of Air Pollution Control, 494-3775, to obtain requirements for such installation/s before work begins.

( ) A permit to construct from the Division of Air Pollution Control is required for such items as spray paint processes, underground gasoline storage tank/s (5,000 gallons or more) and any other equipment or process which exhausts into the atmosphere.

( ) A permit to construct from the Division of Air Pollution Control is required for any charbroiler operation which has a total cooking surface area of five (5) square feet or more.

( ) Prior to approval of a Building Permit Application for renovations to existing or construction of new health care facilities, complete plans and specifications of the building, food service area and type of equipment to be used for the food service operation must be submitted to the Plans Review and Approval Section, Division of Engineering and Maintenance, State Department of Health and Mental Hygiene for review and approval.

( ) Prior to any new construction or substantial alteration of public swimming pool, wading pool, bathhouse, saunas, whirlpools, hot tubs, water and sewerage facilities or other appurtenances pertaining to health and safety; two (2) copies of plans and specifications must be submitted to the Baltimore County Department of Health for review and approval. For more complete information, contact the Recreational Hygiene Section, Division of Environmental Support Services.

( ) Prior to approval for a nursery school, owner or applicant must comply with all Baltimore County regulations. For more complete information, contact the Division of Maternal and Child Health.

( ) If lubrication work and oil changes are performed at this location, the method providing for the elimination of waste oil must be in accordance with Water Resources Administration requirements.

SS 20 1082 (1)

Zoning Item # 28
Page 2

( ) Any existing underground storage tanks containing gasoline, waste oil, solvents, etc., must have the contents removed by a licensed hauler and either be removed from the property or properly backfilled.

( ) Soil percolation tests have been conducted.
  ( ) The results are valid until _____
  ( ) Revised plans must be submitted prior to approval of the percolation tests.

( ) Prior to occupancy approval, the potability of the water supply must be verified by collection of bacteriological and chemical water samples.

( ) In accordance with Section 13-117 of the Baltimore County Code, the water well yield test
  ( ) shall be valid until _____
  ( ) is not acceptable and must be retested. This must be accomplished prior to conveyance of property or approval of Building Permit Applications.

( ) All roads and parking areas should be surfaced with a dustless, bonding material.

(X) No health hazards are anticipated.

(X) Others Proposed tower and guys must not interfere with the well and/or septic area.

Ian J. Forrest, Director
BUREAU OF ENVIRONMENTAL SERVICES

SS 20 1080 (2)

BALTIMORE COUNTY
DEPARTMENT OF PERMITS & LICENSES
TOWSON, MARYLAND 21204
494-3900

TED ZALESKI, JR.
DIRECTOR

August 24, 1983

Mr. William E. Hammond, Zoning Commissioner
Office of Planning and Zoning
County Office Building
Towson, Maryland 21204

Dear Mr. Hammond

Comments on Item # 28 Zoning Advisory Committee Meeting are as follows:

Property Owner: Peter & John Radio Fellowship, Inc.
Location: SE/S Old Georgetown Road 4,400' S/W from centerline Joh Avenue
Existing Zoning: MLR-IM
Proposed Zoning: Special Exception to approve an amendment and modification to the site plan and order in Special Exception Case #5767-XA to permit an additional, more modern radio tower for Station WRBS, as to serve its listening audience.

Acres: 1.59
District: 13th

The items checked below are applicable:

X A. All structures shall conform to the Baltimore County Building Code 1981/Council Bill 4-82 State of Maryland Code for the Handicapped and Aged; and other applicable Codes.

X B. A building/and other miscellaneous permits shall be required before beginning construction.

C. Residential: Three sets of construction drawings are required to file a permit application. Architect/Engineer seal is/is not required.

X D. Commercial: Three sets of construction drawings with a Maryland Registered ~~Architect or~~ Engineer shall be required to file a permit application.

E. An exterior wall erected within 6'0 of an adjacent lot line shall be of one hour fire resistive construction, no openings permitted within 3'-0 of lot lines. A firewall is required if construction is on the lot line, See Table 401, line 2, Section 1407 and Table 1402.

F. Requested variance conflicts with the Baltimore County Building Code, Section/s _____.

G. A change of occupancy shall be applied for, along with an alteration permit application, and three required sets of drawings indicating how the structure will meet the Code requirements for the proposed change. Drawings may require a professional seal.

H. Before this office can comment on the above structure, please have the owner, thru the services of a Registered in Maryland Architect or Engineer certify to this office, that, the structure for which a proposed change in use is proposed can comply with the height/area requirements of Table 505 and the required construction classification of Table 401.

X I. Comments: The construction of the tower shall be under supervision of a structural engineer registered in Maryland and shall be certified as in compliance with the Baltimore County Building Code and the Design drawings on completion before a final occupancy permit approval is issued.

NOTE: These comments reflect only on the information provided by the drawings submitted to the office of Planning and Zoning and are not intended to be construed as the full extent of any permit.
If desired, additional information may be obtained by visiting Room #122 (Plans Review) at 111 West Chesapeake Ave., 21204

Very truly yours,

Charles E. Burnham, Chief
Plans Review

CEB:rrj

PLAN 01-82

BALTIMORE COUNTY
DEPARTMENT OF PERMITS & LICENSES
TOWSON, MARYLAND 21204
494-3610

TED ZALESKI, JR.
DIRECTOR

Mr. Arnold Jablon, Zoning Commissioner
Office of Planning and Zoning
County Office Building
Towson, Maryland 21204

Dear Mr. Jablon:

Comments on Item # 28 revised Zoning Advisory Committee Meeting are as follows:

Property Owner: Peter & John Radio Fellowship, Inc.
Location: SE/S Old Georgetown Road 4,400' S/W from centerline Joh Avenue
Existing Zoning: MLR-IM
Proposed Zoning: Special Exception to approve an amendment and modification to the site plan and order in Special Exception Case #5767-XA to permit an additional, more modern radio tower for Station WRBS, as to serve its listening audience.

Acres: 1.59
District: 13th.

The items checked below are applicable:

X A. All structures shall conform to the Baltimore County Building Code 1981/Council Bill 4-82 State of Maryland Code for the Handicapped and Aged; and other applicable Codes.

X B. A building/ & other miscellaneous be required before beginning construction.

C. Residential: Three sets of construction drawings are required to file a permit application. Architect/Engineer seal is/is not required. Non-reproduced seals and signatures are required on Plans and Technical Data.

D D. Commercial: Three sets of construction drawings with a Maryland Registered Architect or Engineer shall be required to file a permit application.

E. An exterior wall erected within 6'0 for Commercial uses or 3'0 for One & Two Family use group of an adjacent lot line shall be of one hour fire resistive construction, no openings permitted within 3'0 of lot lines. A firewall is required if construction is on the lot line, see Table 401, line 2, Section 1407 and Table 1402, also Section 503.2.

F. Requested variance appears to conflict with the Baltimore County Building Code, Section/s _____.

G. A change of occupancy shall be applied for, along with an alteration permit application, and three required sets of drawings indicating how the structure will meet the Code requirements for the proposed change. Drawings may require a professional seal.

H. Before this office can comment on the above structure, please have the owner, thru the services of a Registered in Maryland Architect or Engineer certify to this office, that, the structure for which a proposed change in use is proposed can comply with the height/area requirements of Table 505 and the required construction classification of Table 401.

X I. Comments - Tower plans shall be signed and sealed by a registered in Maryland Professional Engineer. The project shall be under his direction and a certification signed and sealed by him will be required on completion. See Section 111.7 and Section 625.0.

NOTE: These comments reflect only on the information provided by the drawings submitted to the office of Planning and Zoning and are not intended to be construed as the full extent of any permit. If desired, additional information may be obtained by visiting Room 122 (Plans Review) at 111 W. Chesapeake Ave., Towson.

Very truly yours,

Charles E. Burnham, Chief
Plans Review

CEB:ss

BALTIMORE COUNTY PUBLIC SCHOOLS

Robert Y. Dubel, Superintendent

Towson, Maryland - 21204

Date: August 1, 1983

Mr. William E. Hammond
Zoning Commissioner
Baltimore County Office Building
111 West Chesapeake Avenue
Towson, Maryland 21204

Z.A.C. Meeting of: August 2, 1983

RE: Item No: 26, 27, (28) 29, 30, 31, 32, 33
Property Owner:
Location:
Present Zoning:
Proposed Zoning:

District:
No. Acres:

Dear Mr. Hammond:

The above item numbers have no bearing on student population. As far as Item 34 is concerned, we wish to draw your attention to the fact that this property is in close proximity to the Franklin Senior High School and could be an inducement to the students.

Very truly yours,

Wm. Nick Petrovich, Assistant
Department of Planning

WNP/bp

RE: PETITION FOR SPECIAL HEARING : BEFORE THE ZONING COMMISSIONER
PETITION FOR VARIANCE
SE/S of Old Georgetown Rd., : OF BALTIMORE COUNTY
4,400' SW of the Centerline of
Joh Ave., 13th District : CASE NO. 84-131-SPHA

PETER AND JOHN RADIO :
FELLOWSHIP, INC., Petitioner

: : : : : : :

ORDER TO ENTER APPEARANCE

Mr. Commissioner:

Pursuant to the authority contained in Section 524.1 of the Baltimore County Charter, I hereby enter my appearance in this proceeding. You are requested to notify me of any hearing date or dates which may be now or hereafter designated therefor, and of the passage of any preliminary or final Order in connection therewith.

Peter Max Zimmerman
Deputy People's Counsel

John W. Hessian, III
People's Counsel for Baltimore County
Rm. 223, Court House
Towson, Maryland 21204
494-2188

I HEREBY CERTIFY that on this 2nd day of November, 1983, a copy of the foregoing Order was mailed to Stephen J. Nolan, Esquire, and Nolan, Plumhoff & Williams, Chartered, 204 W. Pennsylvania Avenue, Towson, MD 21204, Attorney for Petitioner.

John W. Hessian, III

IN THE MATTER : BEFORE
OF THE APPLICATION OF
PETER and JOHN RADIO : COUNTY BOARD OF APPEALS
FELLOWSHIP, INC.
: OF
FOR SPECIAL HEARING AND
VARIANCE FROM §250.1, 2 & 3 : BALTIMORE COUNTY
OF THE BALTIMORE COUNTY
ZONING REGULATIONS :
SE/S OLD GEORGETOWN RD. No. 84-131-SPHA
4,400' SW OF JOH AVENUE :
13th DISTRICT

: :

OPINION

The above captioned matter came on for hearing before the County Board of Appeals for Baltimore County on an appeal from a decision of the Deputy Zoning Commissioner dated November 21, 1983. The appeal was filed by the People's Counsel for Baltimore County.

The Petitioner requests a special hearing for the consideration of an amendment and modification to the site , . and order in case #5767-XA, and for a variance from §250.1, 2 and 3 of the Baltimore County Zoning Regulations. The subject property is located on the southeast side of Old Georgetown Road 4,400 feet southwest of the centerline of Joh Avenue, in the Thirteenth Election District of Baltimore County.

The hearing before the Board was de novo. People's Counsel presented no witnesses or other evidence. No Protestants appeared. Petitioner presented testimony and evidence by and through John T. Bisset, General Manager of WRBS Radio Station, William Shenk, an engineer, Hugh E. Gelston, a real estate appraiser, John L. Windle, an engineer specializing in the design, fabrication and construction of towers utilized within the communication industry and William W. Warren, an engineer specializing in radio frequency. The Petitioner also produced Damon Gerber, a neighbor, and Donald E. Yeo, who testified that they are unaware of any community opposition to the construction of the proposed radio tower and that they enjoy listening to this radio station.

The testimony of all witnesses can be briefly summarized as follows:

1. The Petitioner requires the proposed tower so as to improve their radio signal in all directions.

2. Prior to this hearing, the Petitioner obtained, for this structure, all necessary State, Federal and local approvals, and that same does comply with the BOCA Code and all other applicable safety standards.

3. Residential development in the area can be characterized as light to non-existent.

---

4. That all requirements with respect to §502.1 of the Baltimore County Zoning Regulations shall be met.

5. This particular area of the County is not conducive to residential development.

6. That the proposed structure, in the event a catastrophe should occur, shall collapse in an accordian fashion, thus negating the possibility that the subject structure would fall upon individuals (save the five employees on the subject property) within any appreciable distance.

7. That in the event the structure did collapse all electrical connection, because of circuit breakers, would immediately disengage.

The Board is persuaded that the Petitioner has taken every precaution necessary to construct the proposed structure. We believe, therefore, that the health, safety and welfare of the community shall not be adversely affected by the granting of this variance and/or amendment to the site plan.

ORDER

For the reasons set forth in the aforegoing Opinion, it is this 24th day of April, 1984, by the County Board of Appeals, ORDERED that the decision of the Deputy Zoning Commissioner, dated November 21, 1983, be and hereby is AFFIRMED.

Any appeal from this decision must be in accordance with Rules B-1 thru B-13 of the Maryland Rules of Procedure.

COUNTY BOARD OF APPEALS
OF BALTIMORE COUNTY

William T. Hackett, Chairman

William R. Evans

Patricia Phipps

TELEPHONES
301 - 838-1441
301 - 879-1441

THE SHENK CORPORATION
ENGINEERS AND SURVEYORS
43 EAST LEE STREET, BEL AIR, MARYLAND 21014
WILLIAM SHENK, P.E. - RONALD M. KEARNEY, PROPT. L.S.

June 22, 1983 PN 8302

PARTICULAR DESCRIPTION
LAND OF
PETER AND JOHN RADIO
FELLOWSHIP, INC.

Beginning for the same at a point on the southeasterly side of Old Georgetown Road, said point being distant in a southwesterly direction 4,400 feet ± from a point of intersection formed by the center of Old Georgetown Road and the center of Joh Avenue, running thence and leaving the aforesaid Old Georgetown Road the six following courses and distances viz:

(1) South 28 - 10 - 00 West 350.19 feet,
(2) North 45 - 29 - 00 West 179.22 feet,
(3) North 13 - 57 - 00 East 15.79 feet,
(4) North 19 - 47 - 40 East 147.70 feet,
(5) North 15 - 42 - 40 East 193.23 feet, and
(6) South 49 - 56 - 00 East 244.28 feet to the beginning hereof. Containing 1.59 acres of land more or less.

STATE OF MARYLAND
RONALD MAURICE KEARNEY
No. 91
PROPERTY LINE SURVEYOR

RE: PETITIONS FOR SPECIAL HEARING : BEFORE THE ZONING COMMISSIONER
AND VARIANCES
SE/S of Old Georgetown Rd., 4,400' : OF BALTIMORE COUNTY
SW of the Centerline of Joh Ave.,
13th Election District :

PETER AND JOHN RADIO : Case No. 84-131-SPHA (Item 28)
FELLOWSHIP, INC., Petitioner

: : : : : : :

ORDER FOR APPEAL

Mr. Commissioner:

Please note an appeal from the decision of the Deputy Zoning Commissioner in the above-entitled matter, under date of November 21, 1983, to the County Board of Appeals and forward all papers in connection therewith to said Board for hearing.

Peter Max Zimmerman
Deputy People's Counsel

John W. Hessian, III
People's Counsel for Baltimore County
Rm. 223, Court House
Towson, MD 21204
494-2183

I HEREBY CERTIFY that on this 20th day of December, 1983, a copy of the foregoing Order for Appeal was mailed to Stephen J. Nolan, Esquire, Nolan, Plumhoff & Williams, Chartered, 204 W. Pennsylvania Ave., Towson, MD 21204.

John W. Hessian, III

DEC 20 AM
☐ Ansd
☐ Recd
☐ Retd
☐ Emtd
☐ Chkd
ZONING DEPARTMENT
By ....

BALTIMORE COUNTY
OFFICE OF PLANNING & ZONING
TOWSON, MARYLAND 21204
494-3353

ARNOLD JABLON
ZONING COMMISSIONER

December 29, 1983

Stephen J. Nolan, Esquire
Newton A. Williams, Esquire
204 W. Pennsylvania Avenue
Towson, Maryland 21204

Re: Petition for Special Hearing and Variances
SE/S of Old Georgetown Rd., 4,400' SW of
the c/l of Joh Avenue
Peter and John Radio Fellowship, Inc., Petitioner
Case No. 84-131-SPHA

Dear Sirs:

Please be advised that an appeal has been filed by John W. Hessian, III, People's Counsel for Baltimore County, from the decision rendered by the Deputy Zoning Commissioner of Baltimore County, in the above referenced matter.

You will be notified of the date and time of the appeal hearing when it is scheduled by the County Board of Appeals.

Very truly yours,

Arnold Jablon
Zoning Commissioner

AJ:aj

BALTIMORE COUNTY
OFFICE OF PLANNING & ZONING
TOWSON, MARYLAND 21204
494-3353

ARNOLD JABLON
ZONING COMMISSIONER

November 10, 1983

Newton A. Williams, Esquire
Stephen J. Nolan, Esquire
204 W. Pennsylvania Avenue
Towson, Maryland 21204

Re: Petitions for Special Hearing & Variances
SE/S Old Georgetown Rd., 4,400' SW of
the c/l of Joh Avenue
Peter and John Radio Fellowship, Inc., Petitioners
Case No. 84-131-SPHA

Dear Sirs:

This is to advise you that $94.00 is due for advertising and posting of the above property. This fee must be paid before an Order is issued.

Please make the check payable to Baltimore County, Maryland, and remit to Mrs. Arlene January, Zoning Office, Room 113, County Office Building, Towson, Maryland 21204, before the hearing.

Sincerely,

ARNOLD JABLON
Zoning Commissioner

BALTIMORE COUNTY, MARYLAND
OFFICE OF FINANCE - REVENUE DIVISION
MISCELLANEOUS CASH RECEIPT
No. 122977

DATE 11/16/83 ACCOUNT R-01-615-000

AMOUNT $94.00

RECEIVED FROM: Nolan, Plumhoff & Williams

FOR: Advertising & Posting Case #84-131-SPHA
(Peter and John Radio Fellowship, Inc.)

C 048•••••••9400ib £176A

VALIDATION OR SIGNATURE OF CASHIER

Case No. 84-131-SPHA
Item No. 28
Date: December 20, 1983

SE/S Old Georgetown Rd., 4,400' SW of the c/l of Joh Avenue - 13th District
Peter and John Radio Fellowship, Inc. - Petitioner

x	1.	Copy of Petition
x	2.	Copy of Description of Property
x	3.	Copy of Certificate of Posting (4 signs, 2 being location signs)
x	4.	Copy of Certificates of Publication
x	5.	Copy of Zoning Advisory Committee Comments
x	6.	Copy of Comments from the Director of Planning
	7.	Planning Board Comments and Accompanying Map
x	8.	Copy of Order to Enter Appearance
	9.	Copy of Order - Zoning/Deputy Zoning Commissioner
x	10.	Copy of Plat of Property
	11.	200' Scale Location Plan
	12.	1000' Scale Location Plan
	13.	Memorandum in Support of Petition
	14.	Letter(s) from Protestant(s)
	15.	Letter(s) from Petitioner(s)
	16.	Protestants' Exhibits ____ to ____
x	17.	Petitioners' Exhibits 1 to 10
x	18.	Letter of Appeal

Stephen J. Nolan, Esquire — Attorney for Petitioner
Newton A. Williams, Esquire — " " "
204 W. Pennsylvania Avenue
Towson, Maryland 21204

Peter and John Radio Fellowship, Inc. — Petitioner
c/o Peter Bisset
Radio Station WRBS
3600 Georgetown Road
Baltimore, Maryland 21227

John W. Hessian, III, Esquire — People's Counsel
...est Notification
" "
" "
" "

BALTIMORE COUNTY, MARYLAND
OFFICE OF FINANCE - REVENUE DIVISION
MISCELLANEOUS CASH RECEIPT
No. 124054

DATE 12/29/83 ACCOUNT R-01-615-000

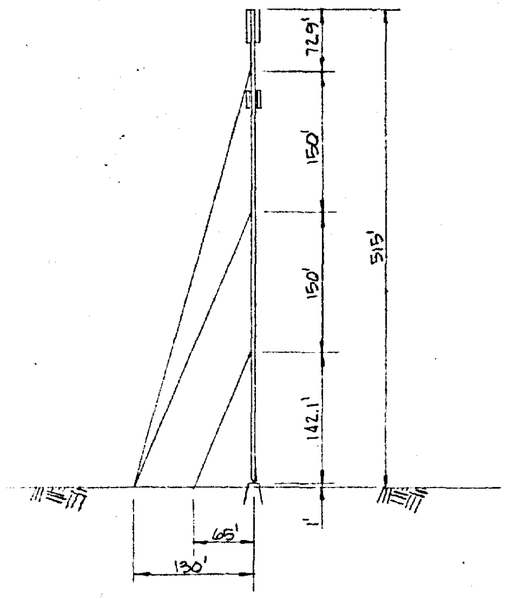
AMOUNT $160.00

RECEIVED FROM: People's Counsel

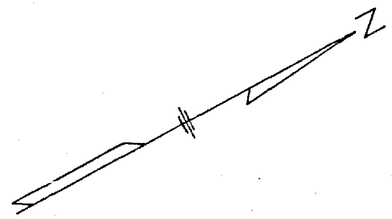
FOR: Appeal of Case #84-131-SPHA
(Peter & John Radio Fellowship, Inc.)

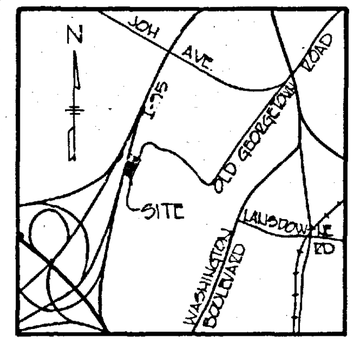
C 628••••••160001b 0282A

VALIDATION OR SIGNATURE OF CASHIER

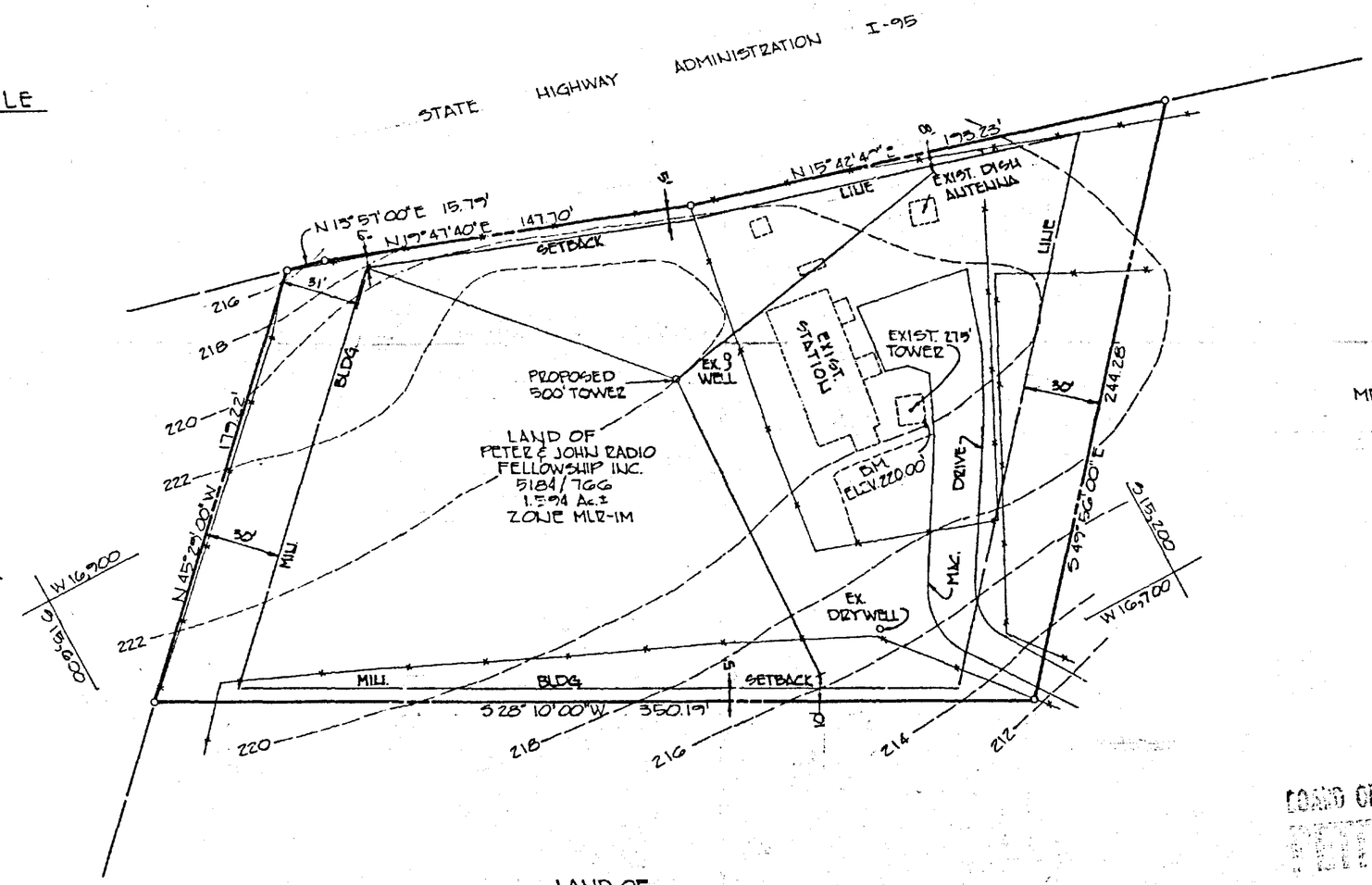


TOWER PROFILE





VICINITY MAP
SCALE: 1" = 1000'



BOARD OF APPEALS
PETITIONER'S
EXHIBIT #1

PLAT TO ACCOMPANY
SPECIAL HEARING TO REVISE APPROVED
SITE PLAN FOR

RADIO STATION WEBS

3600 GEORGETOWN RD.
BALTIMORE CO., MD 21227
1st COUNCILMANIC DISTRICT
13th ELECTION DISTRICT

PREVIOUS CASE
5767-X

THE SHENK CORP.
ENGINEERS & SURVEYORS
43 EAST LEE ST.
DELAIR, MD 21014

DATE	SCALE	FILE NO.
25 MAR 1983	1" = 40'	8302

11 OCT. 1983

October 19, 1983

Newton A. Williams, Esquire
Stephen J. Nolan, Esquire
204 West Pennsylvania Avenue
Towson, Maryland 21204

NOTICE OF HEARING

Re: Petitions for Special Hearing and Variances
SE/S of Old Georgetown Rd., 4,400' SW of the c/l of Joh Avenue
Peter and John Radio Fellowship, Inc. - Petitioner
Case No. 84-131-SPHA

TIME: 10:15 A.M.

DATE: Tuesday, November 15, 1983

PLACE: Room 106, County Office Building, 111 West Chesapeake Avenue, Towson, Maryland

Zoning Commissioner
of Baltimore County

BALTIMORE COUNTY, MARYLAND
OFFICE OF FINANCE - REVENUE DIVISION
MISCELLANEOUS CASH RECEIPT

No. 117680

DATE 7-18-83 ACCOUNT R-01-615-000

AMOUNT 100.00

RECEIVED FROM: [illegible]

FOR: [illegible] Item 28 [illegible]

C 075*****10000:u 8196A

VALIDATION OR SIGNATURE OF CASHIER

BALTIMORE COUNTY
OFFICE OF PLANNING & ZONING
TOWSON, MARYLAND 21204
494-3353

ARNOLD JABLON
ZONING COMMISSIONER

November 21, 1983

Stephen J. Nolan, Esquire
204 West Pennsylvania Avenue
Towson, Maryland 21204

RE: Petitions for Special Hearing and Variances
SE/S of Old Georgetown Rd., 4,400' SW of the centerline of Joh Ave.
13th Election District
Peter and John Radio Fellowship, Inc. - Petitioner
NO. 84-131-SPHA (Item No. 28)

Dear Mr. Nolan:

I have this date passed my Order in the above captioned matter in accordance with the attached.

Very truly yours,

JEAN M.H. JUNG
Deputy Zoning Commissioner

JMHJ/mc

Attachments

cc: John W. Hessian, III, Esquire
People's Counsel

PETITION FOR SPECIAL HEARING AND VARIANCES

13th Election District

ZONING: Petition for Special Hearing and Variances

LOCATION: Southeast side of Old Georgetown Road, 4,400 ft. Southwest of the centerline of Joh Avenue

DATE & TIME: Tuesday, November 15, 1983 at 10:15 A.M.

PUBLIC HEARING: Room 106, County Office Building, 111 W. Chesapeake Avenue, Towson, Maryland

The Zoning Commissioner of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a public hearing:

Petition for Special Hearing under Section 500.7 of the Baltimore County Zoning Regulations, to determine whether or not the Zoning Commissioner and/or Deputy Zoning Commissioner should approve an amendment and modification to the site plan and Order in Special Exception Case No. 5767-XA, to permit an additional, more modern radio tower for Station WRBS to better serve its listening audience and Variances to permit the guy lines and footings of a proposed 515 ft. radio tower to be constructed closer to the front, side and rear property lines than permitted, namely, a front yard setback of 30 ft. in lieu of the required 50 ft., side yard setbacks of 5 ft. in lieu of the required 30 ft. and combined side yard setbacks of 10 ft. in lieu of the required sum of 80 ft. and a rear yard setback of 30 ft. in lieu of the required 40 ft.

The Zoning Regulation to be excepted as follows:
Sections 250.1,2 & 3 - front, side, sum of side yards and rear yard setbacks in M.L.R. zone

All that parcel of land in the Thirteenth District of Baltimore County

Being the property of Peter and John Radio Fellowship, Inc., as shown on plat plan filed with the Zoning Department.

In the event that these Petitions are granted, a building permit may be issued within the thirty (30) day appeal period. The Zoning Commissioner will, however, entertain any request for a stay of the issuance of said permit during this period for good cause shown. Such request must be received in writing by the date of the hearing set above or made at the hearing.

BY ORDER OF
ARNOLD JABLON
ZONING COMMISSIONER
OF BALTIMORE COUNTY

CERTIFICATE OF POSTING
ZONING DEPARTMENT OF BALTIMORE COUNTY
Towson, Maryland

84-131-SPHA

District 13th

Date of Posting Jan 10-84

Posted for: Appeal

Petitioner: Peter and John Radio Fellowship INC.

Location of property: S/S Old Georgetown Rd 4,400' SW of the C/L of Joh Avenue

Location of Signs: 1 sign SE/Corner of Wilson Ave and Georgetown Rd. 1 sign dead end of Georgetown Rd, 1 sign Southside of I-95 approx 250' North of proposed tower

Remarks:

Posted by S. J. Arata (Signature)

Date of return: Jan 13-84

Number of Signs: 3

84-131-SPHA

13th District

SE/s Old Georgetown Rd., 4,400' SW of the c/l of Joh Ave.

Peter and John Radio Fellowship, Inc.

4 SIGNS (2 are location signs)

Office of
PATUXENT
Publishing Corp.
10750 Little Patuxent Pkwy.
Columbia, MD 21044

October 27 19 83

[TH]IS IS TO CERTIFY, that the annexed advertisement of

SPECIAL EXCEPTION 49394

[w]as inserted in the following:

☐ Catonsville Times
☒ Arbutus Times

[w]eekly newspapers published in Baltimore County, Maryland [o]nce a week for one successive weeks before [th]e 29 day of October 19 83, that is to say, [th]e same was inserted in the issues of

October 27, 1983

PATUXENT PUBLISHING CORP.
By [signature]

IN THE CIRCUIT COURT
FOR BALTIMORE COUNTY, IN EQUITY

Plaintiff

vs.

Defendant

CERTIFICATE OF PUBLICATION OF

CERTIFICATE OF POSTING
ZONING DEPARTMENT OF BALTIMORE COUNTY
Towson, Maryland

84-131-SPHA

District 13th

Date of Posting 10-31-83

Posted for: Special Hearing and Variance

Petitioner: Peter and John Radio Fellowship INC.

Location of property: SE/S of Old Georgetown Road, 4,400' SW of the C/L of Joh Avenue

Location of Signs: End of Old Georgetown Road - 1 location sign at the southeast corner of Wilson Avenue and Georgetown Road and 1 location sign southeast side of I-95 approx 250' Northeast of proposed tower

Remarks:

Posted by S. J. Arata (Signature)

Date of return: 11-4-83

Number of Signs: 4

84-131-SPHA

CERTIFICATE OF PUBLICATION

TOWSON, MD., October 27, 19 83

THIS IS TO CERTIFY, that the annexed advertisement was published in THE JEFFERSONIAN, a weekly newspaper printed and published in Towson, Baltimore County, Md., ~~once in each~~ of one time ~~successive weeks~~ before the 15th day of November, 19 83, the ~~first~~ publication appearing on the 27th day of October 19 83.

THE JEFFERSONIAN,
[signature]
Manager.

Cost of Advertisement, $ 35.00

1/13/84 - Following were notified of hearing set for Thursday, March 29, '84, at 10 a.m.:

Stephen Nolan
Newton Williams
Peter and John Radio Fellowship, Inc.
Pete Zimmerman
N. Gerber
J. Hoswell
J. Jung
A. Jablon
J. Dyer

County Board of Appeals of Baltimore County
Room 200 Court House
Towson, Maryland 21204
(301) 494-3180

April 24, 1984

Phyllis C. Friedman
People's Counsel
Room 223 Courthouse
Towson, Md. 21204

Re: Case No. 84-131-SPHA
Peter and John Radio Fellowship, Inc.

Dear Mrs. Friedman:

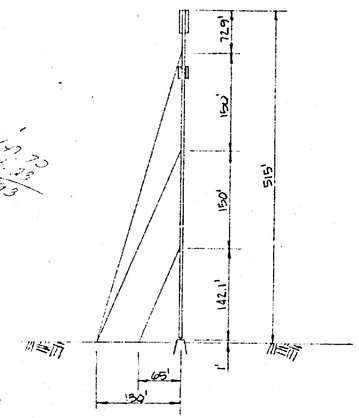
Enclosed herewith is a copy of the Opinion and Order passed by the County Board of Appeals today in the above entitled case.

Very truly yours,

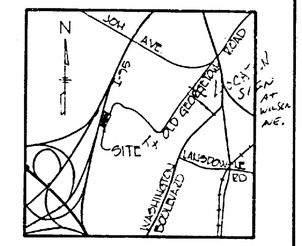
Edith T. Eisenhart
Edith T. Eisenhart, Adm. Secretary

Encl.

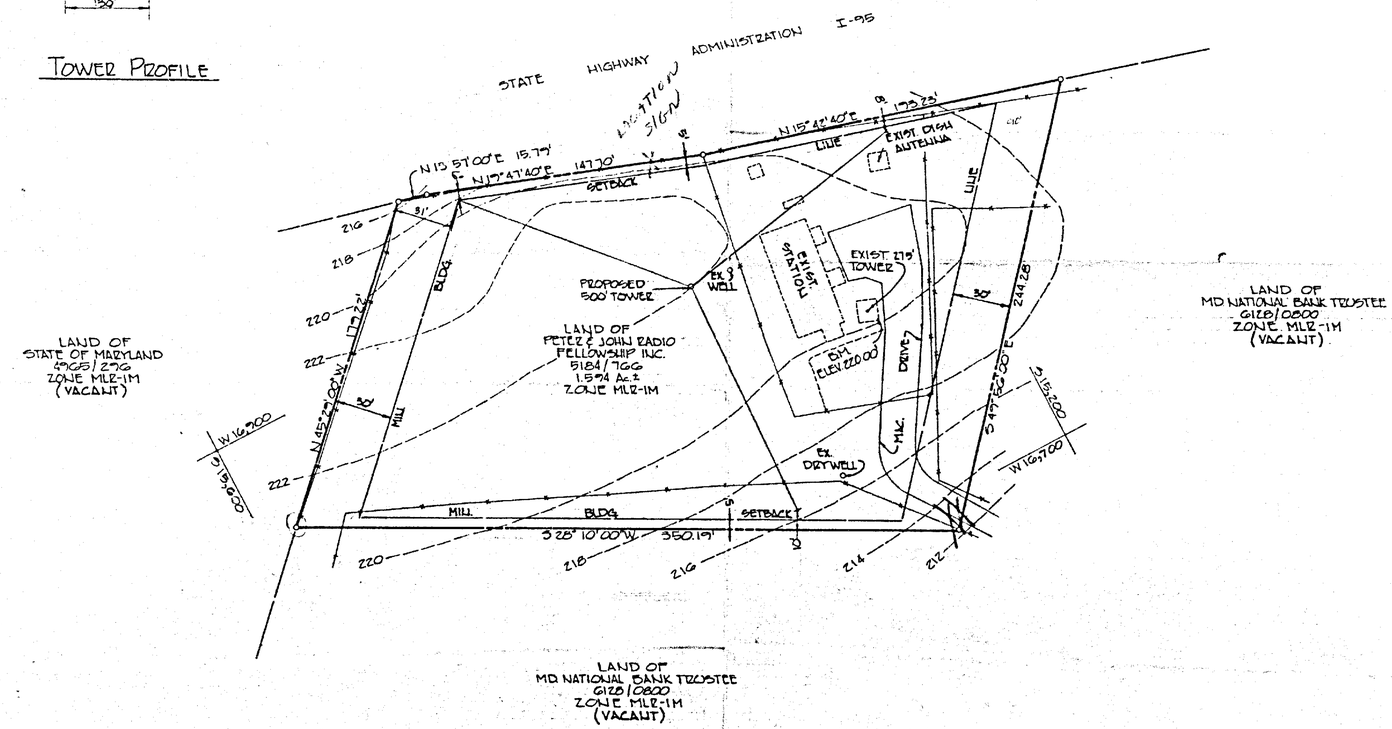
cc: Stephen J.Nolan, Esquire
Newton A. Williams,Esquire
Peter and John Radio Fellowship, Inc.
N. E. Gerber
J. G. Hoswell
A. Jablon
Jean M. H. Jung
J. E. Dyer



TOWER PROFILE



VICINITY MAP
SCALE: 1"=1000'



PLAT TO ACCOMPANY
SPECIAL HEARING TO REVISE APPROVED
SITE PLAN FOR
RADIO STATION WEBS
3600 GEORGETOWN RD.
BALTIMORE CO., MD 21227
1st COUNCILMANIC DISTRICT
15th ELECTION DISTRICT

Revised Plats #28 10-11-83

PETITIONER'S EXHIBIT 1

PREVIOUS CASE
5767-X

THE SHENK CORP.
ENGINEERS & SURVEYORS
45 EAST LEE ST.
BELAIR, MD 21014

DATE	SCALE	FILE NO.
25 MAR 1983	1"=40'	8302

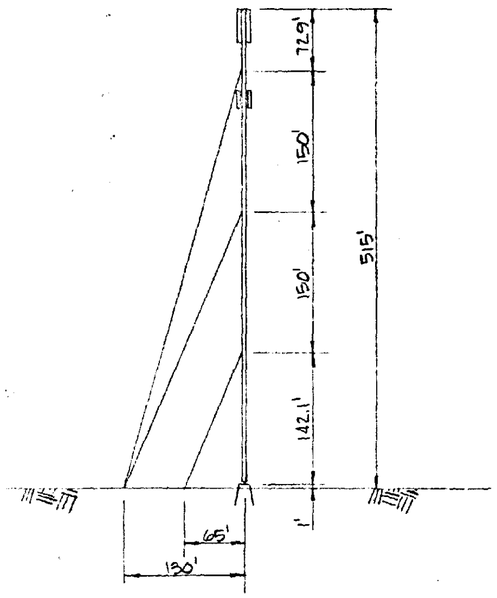
11 OCT. 1983

PETITIONER'S EXHIBIT 7

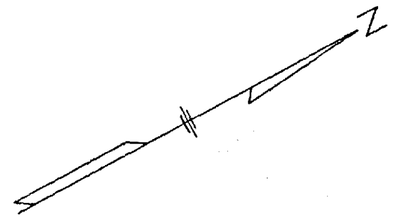
PHOTOGRAMMETRIC MAP OF
BALTIMORE COUNTY METROPOLITAN AREA

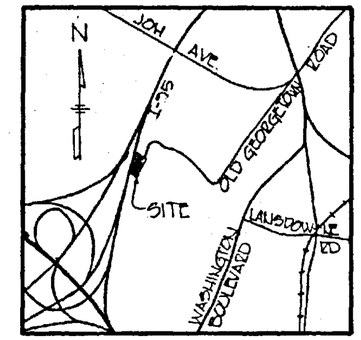
REVISIONS			SCALE	LOCATION	SHEET
	BY	DATE	1" = 200'	LANSDOWNE	S.W. 4-C
			DATE OF PHOTOGRAPHY APRIL 1953		

Topography Compiled By Photogrammetric Methods
AERO SERVICE CORPORATION-PHILADELPHIA, PA.

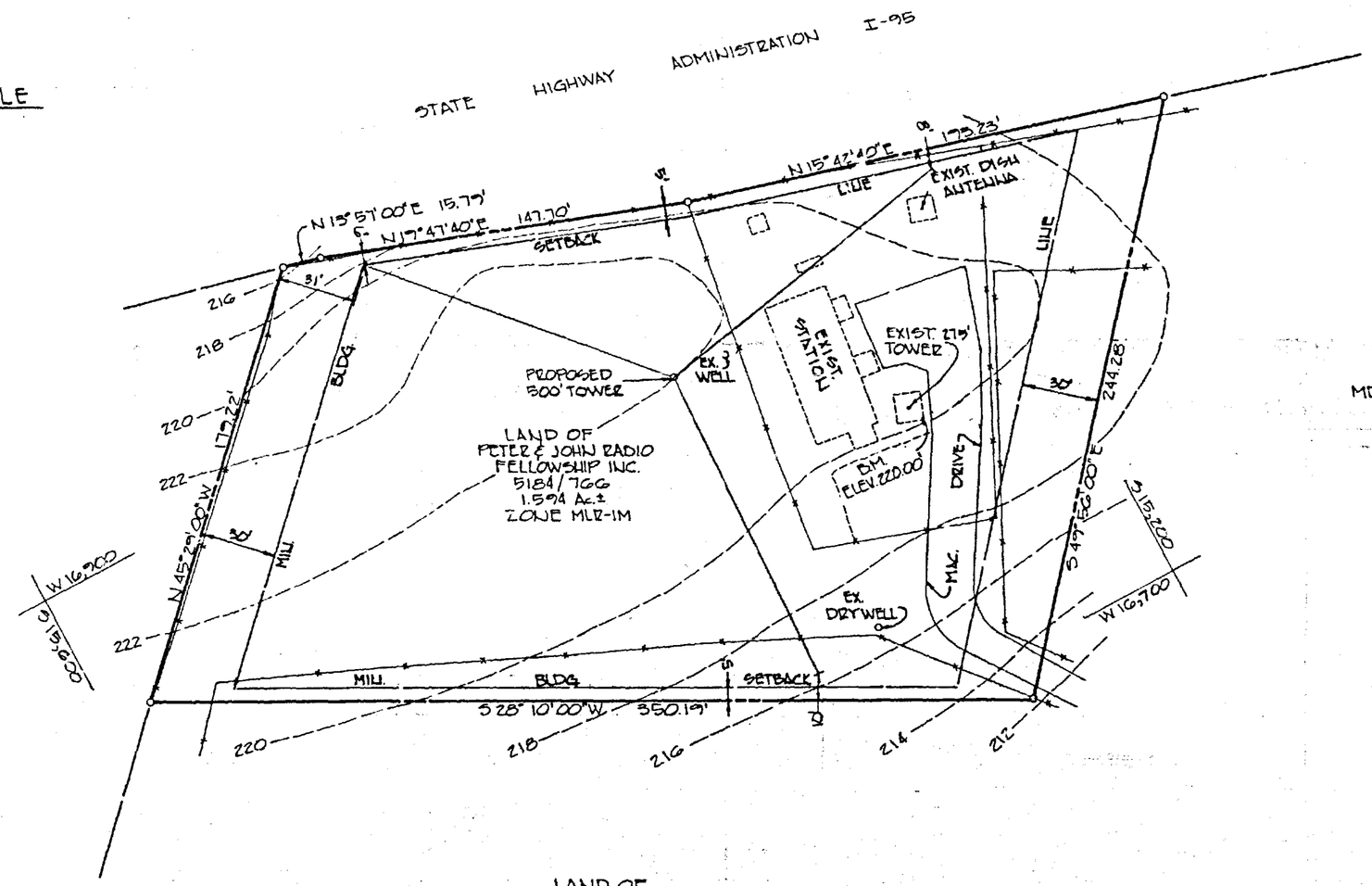


TOWER PROFILE





VICINITY MAP
SCALE: 1"=1000'



PLAT TO ACCOMPANY
SPECIAL HEARING TO REVISE APPROVED
SITE PLAN FOR

RADIO STATION WEBS

3600 GEORGETOWN RD.
BALTIMORE CO., MD 21227
1st COUNCILMANIC DISTRICT
13th ELECTION DISTRICT

PREVIOUS CASE
5767-X

THE SHENK CORP.		
ENGINEERS & SURVEYORS		
43 EAST LEE ST. BEL AIR, MD 21014		
DATE	SCALE	FILE NO.
25 MAR. 1983	1"=40'	8302

11 OCT. 1983

BOARD OF APPEALS
PETITIONER'S
EXHIBIT 7

10-11

PREPARED BY R.J.M.
DATE 11/11/83

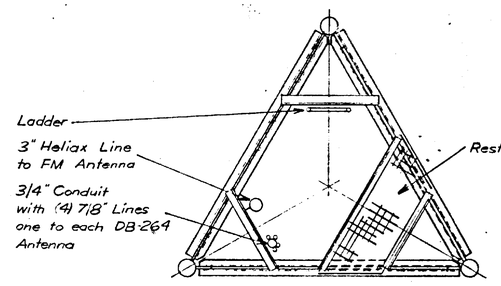
STAINLESS, INC.

General Arrangement, G7 (guyed)

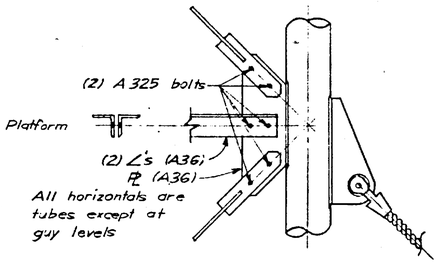
WRBS FM, BALTIMORE, MD

PAGE NO. E-1
JOB NO. 601-P

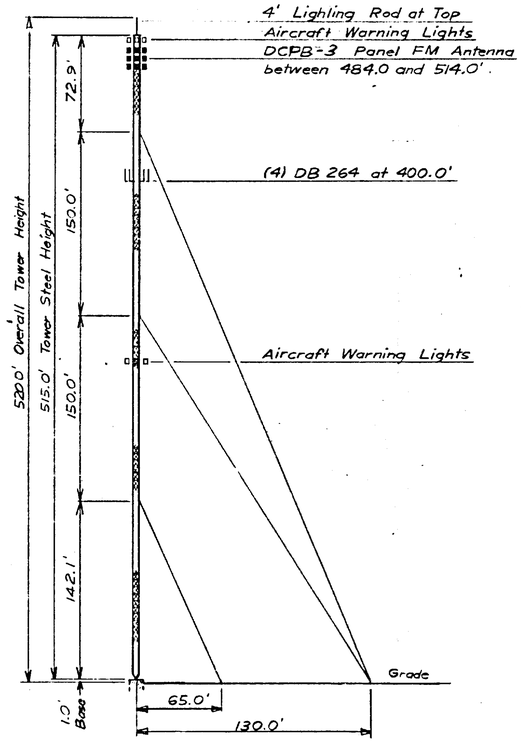
REV	DATE	DESCRIPTION



Cross Section

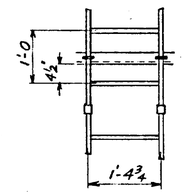


Typical Connections Guys and Tower Framing

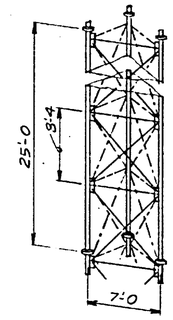


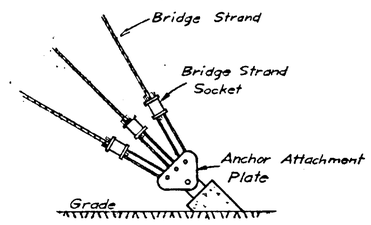
Tower Elevation

Ladder Detail



Structure Detail





Guy Anchor Detail

PETITIONER'S
EXHIBIT 9

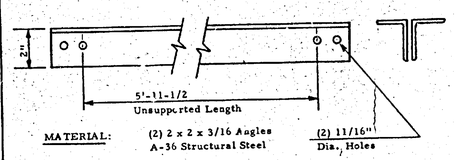
STAINLESS INC. PAGE NO. S4

PREPARED BY: DATE:

G-7 CROSS MEMBER ANALYSIS

REPORT NO. 601-P

REV	DATE	DESCRIPTION



MATERIAL: (2) 2 x 2 x 3/16 Angles
A-36 Structural Steel

PROPERTIES: Fy = 36,000 psi
Gross Area = 1.43
Radius of Gyration = .617
L/r = 71.5/.617 = 116

ALLOWABLE LOAD AS GOVERNED BY:

TENSION: Net Area = 1.43 - 2 (.1875 x .750) = 1.15 Sq. In.
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x 1.15 = 25,300#

COMPRESSION: Allow. Comp. Stress = 10,850 psi
Allow. Comp. Load = 10,850 x 1.43 = 15,500#

BEARING: Brg. Area = 4 x .625 x .1875 = 0.469 Sq. In.
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x 0.469 = 22,700 #

BOLT SHEAR: (2) 5/8 Dia. A-325 Bolts
Gross Area = 4 x .307 = 1.23 Sq. In.
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x 1.23 = 27,000#

ALLOW. TOWER SHEAR
Assume 2/3 of tower shear is carried by one face of tower.
From allowable loads above, compression governs
Allow. Tower Shear = 3/2 x 15,500# = 23,250#

Bolt threads excluded from shear planes.
Unit stresses are in accordance with AISC Specification adopted February 12, 1969

Approval Tracing Yellow

PREPARED BY: R.J.M.
DATE: 11/11/83

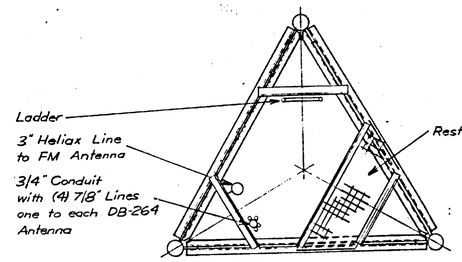
STAINLESS, INC.

General Arrangement, G7 (guyed)

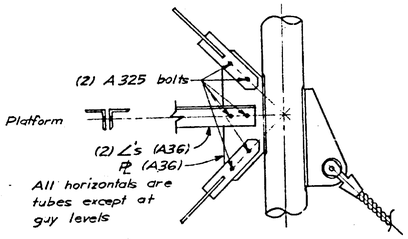
WRBS FM, BALTIMORE, MD

PAGE NO. E-1
JOB NO. 601-P

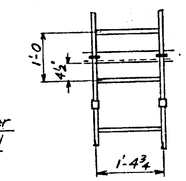
REV	DATE	DESCRIPTION



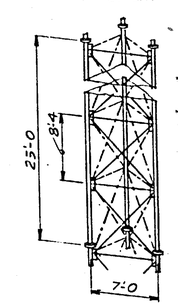
Cross Section



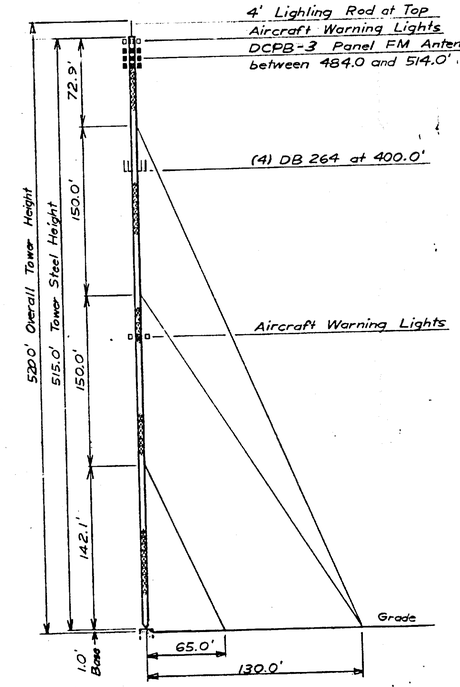
Typical Connections Guys and Tower Framing



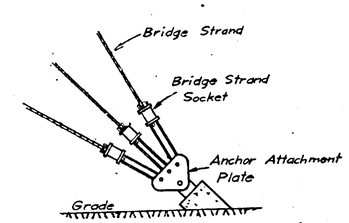
Ladder Detail



Structure Detail



Tower Elevation



Guy Anchor Detail

BOARD OF APPEALS
PETITIONER'S
EXHIBIT 6

JAN 22 1985

PREPARED BY
DATE 11/14/83 11:47:53

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 3.4
JOB NO. WRBS

WIND INTO FACE TRIAL NO. 1

SEE p 2.4 FOR MAX ANCHOR LOADS

INDIVIDUAL GUY COMPONENTS AT ANCHOR

HORIZ. DIST. TO ANCHOR(FT.)	GUY LEVEL	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT (KIPS)
65.0	1	26.344	12.343	0.129	29.092
130.0	2	25.704	11.890	0.264	28.394
	3	48.282	14.991	0.528	50.556

ANCHOR LOADS

HORIZ. DIST. TO ANCHOR(FT.)	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT ANGLE(DEG)	RESULTANT OF GUYS AT ANCHOR (KIPS)
65.0	26.344	12.343	0.129	64.9	29.092
130.0	74.066	26.882	0.792	70.1	78.797

PREPARED BY
DATE 11/14/83 11:48:49

STAINLESS, INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 4
JOB NO: WRBS

TRIAL NO. 1

MEMBER SIZES

ELEV. AT SECT.TOP (FT.)	MAX LOAD(KIPS) TENS	COMP	ALLOW. (KIPS)	VERTICAL MEMBERS DESCRIPTION	YIELD (KSI)	MAX. SHEAR (KIPS)	ALW SHEAR (KIPS)	DIAGONAL MEMBERS DESCRIPTION	YIELD (KSI)	ALW SHEAR (KIPS)	HORIZONTAL MEMBERS DESCRIPTION	YIELD (KSI)
515.0	-48.1	57.02	57.564	5"DIA X .165W	50	6.95	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
510.0	-48.1	57.02	57.564	5"DIA X .165W	50	6.95	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
485.0	-48.1	57.02	57.564	5"DIA X .165W	50	6.95	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
460.0	-48.1	57.02	70.053	5"DIA X .203W	50	6.95	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
442.1 S 3											DBL 2 X 2 X 3/16	36
435.0	0.0	51.18	57.564	5"DIA X .165W	50	4.14	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
410.0	0.0	41.88	57.564	5"DIA X .165W	50	2.72	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
385.0	0.0	42.28	57.564	5"DIA X .165W	50	1.28	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
360.0	0.0	42.80	57.564	5"DIA X .165W	50	2.96	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
335.0	0.0	58.66	70.053	5"DIA X .203W	50	4.64	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
310.0	3.7	73.93	85.088	5"DIA X .250W	50	5.76	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
292.1 S 2											DBL 2 X 2 X 3/16	36
285.0	0.0	67.94	70.053	5"DIA X .203W	50	4.17	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
260.0	0.0	65.61	70.053	5"DIA X .203W	50	2.01	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
235.0	0.0	65.82	70.053	5"DIA X .203W	50	1.42	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
210.0	0.0	65.15	70.053	5"DIA X .203W	50	3.10	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
185.0	0.0	80.28	85.088	5"DIA X .250W	50	4.78	8.91	5/8" DIA. SOLID	50	13.54	2" X .120W	42
160.0	0.0	95.58	100.570	5"DIA X .300W	50	5.90	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42
142.1 S 1											DBL 2 X 2 X 3/16	36
135.0	0.0	88.12	100.570	5"DIA X .300W	50	5.10	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42
110.0	0.0	93.33	100.570	5"DIA X .300W	50	3.42	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42
85.0	0.0	95.41	100.570	5"DIA X .300W	50	1.74	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42
60.0	0.0	95.41	100.570	5"DIA X .300W	50	1.88	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42
35.0	0.0	93.42	100.570	5"DIA X .300W	50	4.15	17.45	7/8" DIA. SOLID	50	13.54	2" X .120W	42

PREPARED BY:
DATE:

STAINLESS INC.

PAGE NO. 5
REPORT NO. 601-P

SPECIFICATIONS
FOR THE
DESIGN, FABRICATION AND ERECTION OF STRUCTURAL
STEEL FOR BUILDINGS
ADOPTED February 12, 1969
G-7, G-8 Allowable Leg Loads

TUBE DIA.	WALL THICK.	BAY LENGTH (L)	YIELD	RADIUS OF GYRATION (r)	L/r	AREA	WEIGHT	ALLOW. STRESS	P ALLOW.
5.000	0.1650	100.00	50000.	1.710	58.46	2.50	8.52	22977.7	57488.
5.000	0.2030	100.00	50000.	1.697	58.90	3.05	10.40	22902.7	70065.
5.000	0.2500	100.00	50000.	1.681	59.46	3.73	12.69	22808.7	85091.
5.000	0.3000	100.00	50000.	1.665	60.05	4.42	15.07	22707.7	100587.
5.000	0.3750	100.00	50000.	1.640	60.95	5.44	18.54	22553.7	122888.
5.000	0.3750	75.00	50000.	1.640	45.71	5.44	18.54	25004.2	136240.
2.750	1.3750	75.00	36000.	0.687	109.09	5.93	20.21	11793.9	70051.
3.000	1.5000	75.00	36000.	0.750	100.00	7.06	24.05	12977.7	91734.
3.250	1.6250	75.00	36000.	0.812	92.30	8.29	28.22	13928.4	115546.
3.500	1.7500	75.00	36000.	0.875	85.71	9.62	32.73	14707.0	141498.
3.750	1.8750	75.00	36000.	0.937	80.00	11.04	37.58	15355.2	169594.
4.000	2.0000	75.00	36000.	1.000	75.00	12.56	42.76	15902.3	199834.
4.250	2.1250	75.00	36000.	1.062	70.58	14.18	48.27	16369.3	232219.
4.500	2.2500	75.00	36000.	1.125	66.66	15.90	54.11	16772.1	266748.
4.750	2.3750	75.00	36000.	1.187	63.15	17.72	60.29	17122.4	303419.
5.000	2.5000	100.00	36000.	1.250	80.00	19.63	66.81	15355.2	301500.
5.250	2.6250	100.00	36000.	1.312	76.19	21.64	73.66	15973.7	341463.
5.500	2.7500	100.00	36000.	1.375	72.72	23.75	80.84	16144.7	383572.
5.750	2.8750	100.00	36000.	1.437	69.56	25.96	88.36	16475.5	427824.

FORM 12 3M 7-67 DIETZGEN Philadelphia 1981 Approved Tracing Vellum

PREPARED BY: TP
DATE: 8-27-73

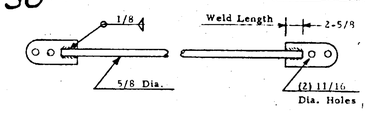
STAINLESS INC.

PAGE NO. 5.1
REPORT NO. 601-P

G-7 DIAGONAL MEMBER ANALYSIS

REV	DATE	DESCRIPTION

V50



MATERIAL: Rod: 5/8 Dia.
Fy = 50,000 psi Area = .307 in.^{2}
End Plates 3/8 x 2-1/4 x 7-3/4
Fy = 36,000 psi

ALLOWABLE LOADS AS GOVERNED BY:

TENSION: Allow. Tensile Stress = 30,000 psi
Allow. Tension Load = 30,000 x .307 = 9,210#

BEARING: Plate Thickness = .375"
Brg. Area = 2 x .375 x .625 = .47 in.^{2}
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x .47 = 22,500#

BOLT SHEAR: (2) 5/8 Dia. A-325
Gross Area = 2 x .307 = .614 in.^{2}
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x .614 in.^{2} = 13,500#

END PAD: Weld = 2.625" x 4 x 2 x 700# = 14,700#
Net Area = .375 (2.25 - .75) = .5625 in.^{2}
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x .5625 = 12,375#

ALLOW. TOWER SHEAR

Assume 2/3 of tower shear is carried by one face of tower. From allow. loads above, tension governs and the allow. tower shear =

$3/2 \times 9210 \times \frac{7.00}{10.85} = 8,913\#$

Unit Stresses are in accordance with AISC Specification adopted February 12, 1969

Approved Tracing Vellum

PREPARED BY: TP
DATE: 8-27-73

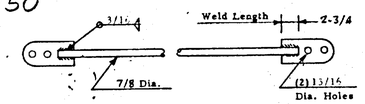
STAINLESS INC.

PAGE NO. 5.2
REPORT NO. 601-P

G-7 DIAGONAL MEMBER ANALYSIS

REV	DATE	DESCRIPTION

V50



MATERIAL: Rod: 7/8 Dia.
Fy = 50000 psi Area = .601 in.^{2}
End Plates 1/2 x 3 x 8-5/8"
Fy = 36,000 psi

ALLOWABLE LOADS AS GOVERNED BY:

TENSION: Allow. Tensile Stress = 30,000 psi
Allow. Tension Load = 30,000 x .601 = 18,030#

BEARING: Plate Thickness = .50"
Brg. Area = 2 x .50 x .750 = .750 in.^{2}
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x .750 = 36,375#

BOLT SHEAR: (2) 3/4 Dia. A-325
Gross Area = 2 x .442 = .884 in.^{2}
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x .884 = 19,450#

END PAD: Weld = 2.75 x 4 x 3 x 700# = 23,100#
Net Area = .50 (3.00 - .875) = 1.063 in.^{2}
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x 1.063 in.^{2} = 23,375#

ALLOW. TOWER SHEAR

Assume 2/3 of tower shear is carried by one face of tower. From allow. loads above, tension governs and the allow. tower shear =

$3/2 \times 18,030 \times \frac{7.00}{10.85} = 17,448\#$

Unit Stresses are in accordance with AISC Specification adopted February 12, 1969

Approved Tracing Vellum

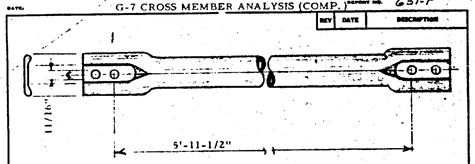
PREPARED BY:
DATE:

STAINLESS INC.

PAGE NO. 5.3
REPORT NO. 601-P

G-7 CROSS MEMBER ANALYSIS (COMP.)

REV	DATE	DESCRIPTION



MATERIAL: AISC C1010 FLASH-IN HRP ALUM. KILLED.
STEEL TUBING 2" O. D. x .120" WALL.

PROPERTIES: 42,000 psi MINIMUM YIELD
A = 0.709 in^2
R = 0.666 in.
L = 71.5 in.
L/R = 107

NO BOLT ECCENTRICITY

ALLOWABLE LOAD AS GOVERNED BY:

COMPRESSION: Allow. Comp. Stress = 12,730 psi**
Allow. Comp. Load = 12,730 x 0.709 = 9,025#

BEARING: Bearing Area = 2(2 x 0.120" x 0.625") = 0.300 in^2
Allow. Brg. Stress = 56,500 psi**
Allow. Brg. Load = 56,500 x 0.300 = 16,950#

BOLT SHEAR: 5/8" Dia. - A-325 BOLTS
Gross Area = 2 x 0.307 in^2 = 0.614 in^2
Allow. Shear Stress = 22,000 psi**
Allow. Shear Load = 22,000 x 0.614 = 13,510#

TOWER SHEAR:

ASSUME 2/3 OF TOWER SHEAR IS CARRIED BY ONE FACE OF TOWER.
FROM ALLOWABLE LOADS ABOVE, COMPRESSIVE LOAD GOVERNS
AND THE ALLOWABLE TOWER SHEAR = 3/2 x 9,025# = 13,540#

**AISC SPECIFICATION (ADOPTED FEBRUARY 12, 1969)

Approved Tracing Vellum

JAN 22 1985

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DATE 11/14/83 11:47:53

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 3.4
JOB NO. WRBS

WIND INTO FACE TRIAL NO. 1

SEE p 2.4 FOR MAX ANCHOR LOADS

INDIVIDUAL GUY COMPONENTS AT ANCHOR
****

HORIZ. DIST. TO ANCHOR(FT.)	GUY LEVEL	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT (KIPS)
65.0	1	26.344	12.343	0.129	29.092
130.0	2	25.784	11.890	0.264	28.394
	3	48.282	14.991	0.528	50.556

ANCHOR LOADS
****

HORIZ. DIST. TO ANCHOR(FT.)	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT ANGLE(DEG)	RESULTANT OF GUYS AT ANCHOR (KIPS)
65.0	26.344	12.343	0.129	64.9	29.092
130.0	74.066	26.882	0.792	70.1	78.797

PREPARED BY
DATE 11/14/83 11:48:49

STAINLESS, INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 4
JOB NO. WRBS

TRIAL NO. 1

MEMBER SIZES

ELEV. AT SECT.TOP (FT.)	MAX LOAD(KIPS) TENS	COMP	ALLOW. (KIPS)	VERTICAL MEMBERS DESCRIPTION	YIELD (KSI)	MAX. SHEAR (KIPS)	DIAGONAL MEMBERS ALW SHEAR (KIPS)	DESCRIPTION	YIELD (KSI)	HORIZONTAL MEMBERS ALW SHEAR (KIPS)	DESCRIPTION	YIELD (KSI)
515.0	-48.1	57.02	57.564	5''DIA X .165W	50	6.95	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
510.0	-48.1	57.02	57.564	5''DIA X .165W	50	6.95	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
485.0	-48.1	57.02	57.564	5''DIA X .165W	50	6.95	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
460.0	-48.1	57.02	70.053	5''DIA X .203W	50	6.95	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
442.1 S 3											DBL 2 X 2 X 3/16	36
435.0	0.0	51.18	57.564	5''DIA X .165W	50	4.14	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
410.0	0.0	41.88	57.564	5''DIA X .165W	50	2.72	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
385.0	0.0	42.28	57.564	5''DIA X .165W	50	1.08	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
360.0	0.0	42.80	57.564	5''DIA X .165W	50	2.96	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
335.0	0.0	58.66	70.053	5''DIA X .203W	50	4.64	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
310.0	-3.7	73.93	85.088	5''DIA X .250W	50	5.76	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
292.1 S 2											DBL 2 X 2 X 3/16	36
285.0	0.0	67.94	70.053	5''DIA X .203W	50	4.17	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
260.0	0.0	65.61	70.053	5''DIA X .203W	50	2.01	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
235.0	0.0	65.82	70.053	5''DIA X .203W	50	1.42	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
210.0	0.0	65.15	70.053	5''DIA X .203W	50	3.10	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
185.0	0.0	80.28	85.088	5''DIA X .250W	50	4.78	8.91	5/8'' DIA. SOLID	50	13.54	2'' X .120W	42
160.0	0.0	95.58	100.570	5''DIA X .300W	50	5.90	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42
142.1 S 1											DBL 2 X 2 X 3/16	36
135.0	0.0	88.12	100.570	5''DIA X .300W	50	5.16	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42
110.0	0.0	93.33	100.570	5''DIA X .300W	50	3.42	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42
85.0	0.0	95.41	100.570	5''DIA X .300W	50	1.74	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42
60.0	0.0	95.41	100.570	5''DIA X .300W	50	1.88	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42
35.0	0.0	93.42	100.570	5''DIA X .300W	50	4.15	17.45	7/8'' DIA. SOLID	50	13.54	2'' X .120W	42

PREPARED BY: STAINLESS INC. PAGE NO. 5
DATE: REPORT NO. 601-P

SPECIFICATIONS
FOR THE
DESIGN, FABRICATION AND ERECTION OF STRUCTURAL
STEEL FOR BUILDINGS
ADOPTED February 12, 1969
G-7, G-8 Allowable Leg Loads

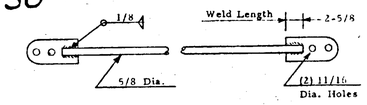
TUBE DIA.	WALL THICK.	BAY LENGTH (L)	YIELD	RADIUS OF GYRATION (r)	L/r	AREA	WEIGHT	ALLOW. STRESS	P ALLOW.
5.000	0.1650	100.00	50000.	1.710	58.46	2.50	8.52	22977.7	57588.
5.000	0.2030	100.00	50000.	1.697	58.90	3.05	10.40	22902.7	70065.
5.000	0.2500	100.00	50000.	1.681	59.46	3.73	12.69	22808.7	85091.
5.000	0.3000	100.00	50000.	1.665	60.05	4.42	15.07	22707.7	100587.
5.000	0.3750	100.00	50000.	1.640	60.95	5.44	18.54	22553.7	122888.
5.000	0.3750	75.00	50000.	1.640	45.71	5.44	18.54	25004.2	136240.
2.750	1.3750	75.00	36000.	0.687	109.09	5.93	20.21	11793.9	70051.
3.000	1.5000	75.00	36000.	0.750	100.00	7.06	24.05	12977.7	91734.
3.250	1.6250	75.00	36000.	0.812	92.30	8.29	28.22	13928.4	115546.
3.500	1.7500	75.00	36000.	0.875	85.71	9.62	32.73	14707.0	141498.
3.750	1.8750	75.00	36000.	0.937	80.00	11.04	37.58	15355.2	169594.
4.000	2.0000	75.00	36000.	1.000	75.00	12.56	42.76	15902.3	199834.
4.250	2.1250	75.00	36000.	1.062	70.58	14.18	48.27	16369.3	232219.
4.500	2.2500	75.00	36000.	1.125	66.66	15.90	54.11	16772.1	266748.
4.750	2.3750	75.00	36000.	1.187	63.15	17.72	60.29	17122.4	303419.
5.000	2.5000	100.00	36000.	1.250	80.00	19.63	66.81	15355.2	301500.
5.250	2.6250	100.00	36000.	1.312	76.19	21.64	73.66	15773.7	341463.
5.500	2.7500	100.00	36000.	1.375	72.72	23.75	80.84	16144.7	383572.
5.750	2.8750	100.00	36000.	1.437	69.56	25.96	88.36	16475.5	427824.

FORM 12 2M 7-67 DIETZGEN Philadelphia 1966 Approved Tracing Vellum

PREPARED BY: STAINLESS INC. PAGE NO. 5.1
DATE: 8-27-73 G-7 DIAGONAL MEMBER ANALYSIS REPORT NO. 601-P

REV	DATE	DESCRIPTION

V50



MATERIAL: Rod: 5/8 Dia.
Fy = 50,000 psi Area = .307 in.^{2}
End Plates 3/8 x 2-1/4 x 7-3/4
Fy = 36,000 psi

ALLOWABLE LOADS AS GOVERNED BY:

TENSION: Allow. Tensile Stress = 30,000 psi
Allow. Tension Load = 30,000 x .307 = 9,210#

BEARING: Plate Thickness = .375"
Brg. Area = 2 x .375 x .625 = .47 in.^{2}
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x .47 = 22,500#

BOLT SHEAR: (2) 5/8 Dia. A-325
Gross Area = 2 x .307 = .614 in.^{2}
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x .614 in.^{2} = 13,500#

END PAD: Weld = 2.625" x 4 x 2 x 700# = 14,700#
Net Area = .375 (2.25 - .75) = .5625 in.^{2}
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x .5625 = 12,375#

ALLOW. TOWER SHEAR

Assume 2/3 of tower shear is carried by one face of tower. From allow. loads above, tension governs and the allow. tower shear =
3/2 x 9210 x 7.00 / 10.85 = 8,913#

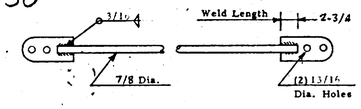
Unit Stresses are in accordance with AISC Specification adopted February 12, 1969

Approved Tracing Vellum

PREPARED BY: STAINLESS INC. PAGE NO. 5.2
DATE: 8-27-73 G-7 DIAGONAL MEMBER ANALYSIS REPORT NO. 601-P

REV	DATE	DESCRIPTION

V50



MATERIAL: Rod: 7/8 Dia.
Fy = 50000 psi Area = .601 in.^{2}
End Plates 1/2 x 3 x 8-5/8"
Fy = 36,000 psi

ALLOWABLE LOADS AS GOVERNED BY:

TENSION: Allow. Tensile Stress = 30,000 psi
Allow. Tension Load = 30,000 x .601 = 18,030#

BEARING: Plate Thickness = .50"
Brg. Area = 2 x .50 x .750 = .750 in.^{2}
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x .750 = 36,375#

BOLT SHEAR: (2) 3/4 Dia. A-325
Gross Area = 2 x .442 = .884 in.^{2}
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x .884 = 19,450#

END PAD: Weld = 2.75 x 4 x 3 x 700# = 23,100#
Net Area = .50 (3.00 - .875) = 1.063 in.^{2}
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x 1.063 in.^{2} = 23,375#

ALLOW. TOWER SHEAR

Assume 2/3 of tower shear is carried by one face of tower. From allow. loads above, tension governs and the allow. tower shear =
3/2 x 18,030 x 7.00 / 10.85 = 17,448#

Unit Stresses are in accordance with AISC Specification adopted February 12, 1969

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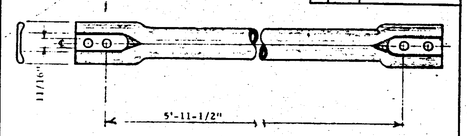
PREPARED BY: STAINLESS INC. PAGE NO. 5.3
DATE: G-7 CROSS MEMBER ANALYSIS (COMP.) REPORT NO. 601-P

REV	DATE	DESCRIPTION



MATERIAL: AISC C1010 FLASH-IN HRP ALUM. KILLED. STEEL TUBING 2" O. D. x .120" WALL.

PROPERTIES: 42,000 psi MINIMUM YIELD
A = 0.709 in.^{2}
R = 0.666 in.
L = 71.5 in.
L/R = 107

NO BOLT ECCENTRICITY

ALLOWABLE LOAD AS GOVERNED BY:

COMPRESSION: Allow. Comp. Stress = 12,730 psi**
Allow. Comp. Load = 12,730 x 0.709 = 9,025#

BEARING: Bearing Area = 2(2 x 0.120" x 0.625") = 0.300 in.^{2}
Allow. Brg. Stress = 56,500 psi**
Allow. Brg. Load = 56,500 x 0.300 = 16,950#

BOLT SHEAR: 5/8" Dia. - A-325 BOLTS
Gross Area = 2 x 0.307 in.^{2} = 0.614 in.^{2}
Allow. Shear Stress = 22,000 psi**
Allow. Shear Load = 22,000 x 0.614 = 13,510#

TOWER SHEAR:

ASSUME 2/3 OF TOWER SHEAR IS CARRIED BY ONE FACE OF TOWER.

FROM ALLOWABLE LOADS ABOVE, COMPRESSIVE LOAD GOVERNS

AND THE ALLOWABLE TOWER SHEAR = 3/2 x 9,025# = 13,540#

**AISC SPECIFICATION (ADOPTED FEBRUARY 12, 1969)

Approved Tracing Vellum

JAN 22 985

PREPARED BY
DATE 11/14/83 11:45:42

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2
JOB NO. WRBS

TOWER DATA TRIAL NO. 1

TOWER WIDTH(FT.)	SAFETY FACTOR ON GUYS	MOMENT ABOVE TOP GUY(FT.KIPS)	SHEAR ABOVE TOP GUY(KIPS)	WT. ABOVE TOP GUY(KIPS)	MOD. OF ELASTICITY OF TOWER
7.00	2.50	307.957	6.950	8.147	0.29E+08

GUY SPAN	SPAN LENGTH(FT)	LEG DIA. (IN.)	WALL THK. OF LEG (IN.)	W.L./FT. IN SPAN(LB/FT)	WT./FT. IN SPAN(LB/FT)	CONC. W.L. AT GUY POINT(KIPS)	CONC. WT. AT GUY PT.(KIPS)
1	142.1	5.0000	0.3000	67.2	78.7	0.0	0.0
2	150.0	5.0000	0.3000	67.2	78.7	0.0	0.0
3	150.0	5.0000	0.3000	67.2	78.7	0.0	0.0

GUY SPAN	FIRST CONC. LOAD FROM TOP OF SPAN FT. FROM TOP	W.L. KIPS	WT. KIPS	SECOND CONC. LOAD FROM TOP OF SPAN FT. FROM TOP	W.L. KIPS	WT. KIPS
1	0.0	0.0	0.0	0.0	0.0	0.0
2	32.1	0.480	0.500	0.0	0.0	0.0
3	21.1	-0.259	-0.109	42.1	0.506	0.144

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STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.1
JOB NO. WRBS

WIND INTO LEGS TRIAL NO. 1

GUY DATA

FINAL TEMP. = 60. INITIAL TEMP. = 60.

GUY LEVEL	STD. GUYS	INTL DEFLECTION (FT.)	INCR	GUYS/ ANCHOR	WIND VELO. (MPH)	HORIZ. (FT)	VERT. (FT)	INITL TENSN. (KIPS)	RADIAL ICE THCK. (IN.)	WT/CU.FT.	GUY DIAM. (IN.)	MOD OF ELAST (OF GUYS)	GUYS THIS LEV.	DIST INCT GUYS
1	S	0.70	0.20	1.	100.0	65.0	142.1	6.500	0.0	0.0	0.8125 BS	0.240E+08	3.	2
GUY WT/FT = 1.390 CROSS SECTIONAL AREA (SQ.IN.) = 0.3960										GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	
2	S	1.20	0.30	1.	100.0	130.0	292.1	7.000	0.0	0.0	0.8125 BS	0.240E+08	3.	2
GUY WT/FT = 1.390 CROSS SECTIONAL AREA (SQ.IN.) = 0.3960										GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	
3	S	2.90	0.40	1.	100.0	130.0	442.1	19.000	0.0	0.0	1.1250 BS	0.240E+08	3.	2
GUY WT/FT = 2.660 CROSS SECTIONAL AREA (SQ.IN.) = 0.7760										GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	

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STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.2
JOB NO. WRBS

WIND INTO LEGS TRIAL NO. 1

MAXIMUM GUY LOADS

GUY LEVEL	MOMENTS (FT.KIPS)	SHEARS (KIPS)	REACTIONS (KIPS)	GUY DIAM. (IN.)	UTS (KIPS)	GUY LOAD X F.S.(KIPS)	TOWER DEFLEC(FT)	GUY LUG ANGLE(DEG)	GUY(FT) LENGTH	INITIAL TENS(KIPS)
3	-307.957	6.950	12.294	1.1250 BS	156.000	> 144.688	3.26	73.9	460.8	19.000
	-123.318	4.568								
	31.129 (65.0 FT. FROM TOP OF SPAN)									
2	-215.310	5.759	10.587	0.8125 BS	80.000	> 77.405	1.95	66.3	319.7	7.000
	-114.413	4.661								
	30.420 (63.0 FT. FROM TOP OF SPAN)									
1	-227.917	5.899	11.742	0.8125 BS	80.000	> 74.497	0.91	65.4	156.3	6.500
	-125.207	5.659								
	125.228 (85.0 FT. FROM TOP OF SPAN)									
BASE	0.0	3.890								

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STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.3
JOB NO. WRBS

LEG LOADS--WIND INTO LEGS

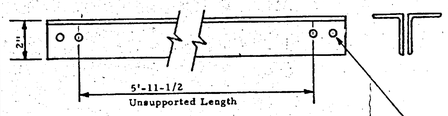
LEVEL	ELEVATION (FT.)	(WT +VC)/3. (KIPS)	LEG A (KIPS)	LEG B (KIPS)	LEG SIZE	HORIZONTALS	DIAGONALS
3	442.1	2.716	-48.086	28.116			
		27.861	7.518	38.032			
		29.578	34.713	27.010			
		(65.0 FT. FROM TOP OF SPAN.)					
2	292.1	31.808	-3.710	49.567			
		43.510	24.636	52.947			
		45.330	50.348	42.821			
		(63.0 FT. FROM TOP OF SPAN.)					
1	142.1	47.612	10.014	66.411			
		57.846	37.109	68.214			
		60.076	80.733	49.747			
		(85.0 FT. FROM TOP OF SPAN.)					
BASE	0.0		61.573	61.573			

TOTAL LOAD ON BASE = 184.720 SEE p 3.3 FOR MAX BASE LOAD

JAN 22 1985

PREPARED BY: STAINLESS INC. PAGE NO. 5.4
DATE: G-7 CROSS MEMBER ANALYSIS REPORT NO. 601-P

REV	DATE	DESCRIPTION



MATERIAL: (2) 2 x 2 x 3/16 Angles
A-36 Structural Steel

PROPERTIES: Fy = 36,000 psi
Gross Area = 1.43
Radius of Gyration = .617
L/r = 71.5/.617 = 116

ALLOWABLE LOAD AS GOVERNED BY:

TENSION: Net Area = 1.43 - 2 (.1875 x .750) = 1.15 Sq. In.
Allow. Tensile Stress = 22,000 psi
Allow. Tension Load = 22,000 x 1.15 = 25,300#

COMPRESSION: Allow. Comp. Stress = 10,850 psi
Allow. Comp. Load = 10,850 x 1.43 = 15,500#

BEARING: Brg. Area = 4 x .625 x .1875 = 0.469 Sq. In.
Allow. Brg. Stress = 48,500 psi
Allow. Brg. Load = 48,500 x 0.469 = 22,700 #

BOLT SHEAR: (2) 5/8 Dia. A-325 Bolts
Gross Area = 4 x .307 = 1.23 Sq. In.
Allow. Shear Stress = 22,000 psi
Allow. Shear Load = 22,000 x 1.23 = 27,000#

ALLOW. TOWER SHEAR
Assume 2/3 of tower shear is carried by one face of tower.
From allowable loads above, compression governs
Allow. Tower Shear = 3/2 x 15,500# = 23,250#

Bolt threads excluded from shear planes.
Unit stresses are in accordance with AISC Specification adopted February 12, 1969

Stainless, inc.
NORTH WALES • PENNSYLVANIA

BOARD OF APPEALS
PETITIONER'S EXHIBIT #8

Stainless, inc.
NORTH WALES • PENNSYLVANIA

REPORT 601-P

DATE: November 14, 1983

TITLE
STRUCTURAL ANALYSIS
PROPOSED 520 FT. G-7 TOWER
WRBS, BALTIMORE, MD

PREPARED: JLK APPROVED: John Talinda

CHECKED BY:

CONTRACT NO. OR REFERENCE:

SUBJECT OF CONTRACT:

Revisions

Date	Pages	Remarks

PREPARED BY: JLK STAINLESS INC. PAGE NO. I
DATE: 11-14-83 TABLE OF CONTENTS REPORT NO. 601-P

REV	DATE	DESCRIPTION

FOR STRUCTURAL ANALYSIS
BEAM COLUMN TYPE

DESCRIPTION	PAGE NO.
GENERAL ARRANGEMENT DRAWING	1
WIND LOAD AND WEIGHT SUMMARY	1.1
WIND INTO TOWER LEGS	
TOWER INPUT DATA	2
GUY INPUT DATA	2.1
GUY LOADS, TOWER MOMENTS AND SHEARS	2.2
TOWER LEG AND BASE PIER LOADS	2.3
ANCHOR LOADS	2.4
WIND INTO TOWER FACE	
GUY INPUT DATA	3.1
GUY LOADS, TOWER MOMENTS AND SHEARS	3.2
TOWER LEG AND BASE PIER LOADS	3.3
ANCHOR LOADS	3.4
MEMBER SIZES AND LOADS	4
ALLOWABLE HEIGHT LOADS	
VERTICAL LEGS	5
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HORIZONTALS	5.3, 5.4

PREPARED BY: REK
DATE: 5-10-83
STAINLESS INC.
SPECIFICATIONS & ARRANGEMENT
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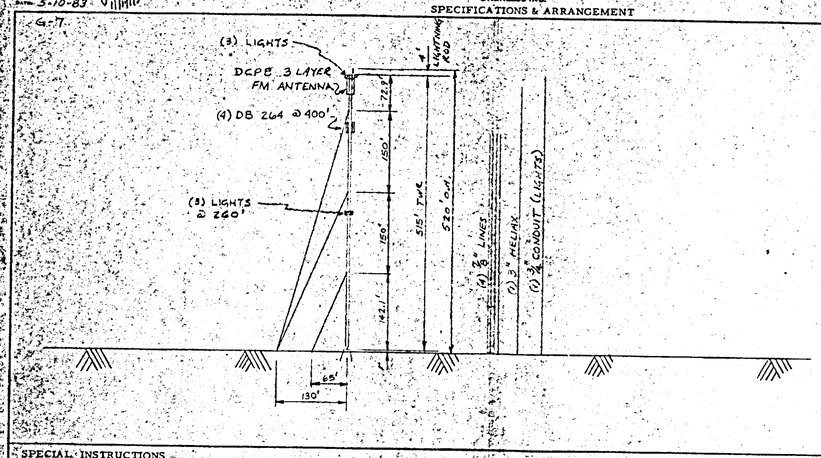

REV	DATE	DESCRIPTION

Location: WRBS BALTIMORE, MD
Wind Load: 40 psf EIA
Guys
Clip
Fixed ✓ SOCKETS
Antenna DIELECTRIC
Type DCPB 3 PANEL
Ht. 30'
Wt. 3120#
Bury or Pedestal
M.
S. ωl_{40} = 1935#
R_1
R_2
R_3
Other Requirements:

SPECIAL INSTRUCTIONS

LOADS ABOVE TOP GUY

Σ MOMENTS = $\left(\frac{72.9^2}{2} \times 62.2\right) + (480 \times 71.9) + (1935 \times 55.9) = 307,957$ '#

Σ SHEARS = 480 + 72.9 x 62.2 + 1935 = 6950#

Σ WEIGHT = 500 + 72.9 x 62.1 + 3120 = 8147#

LOADS IN TOP SPAN

(4) 7/8 LINES ωl_{40} = 259# , wt = 109# } 21.1' FROM TOP

(4) DB 264 ωl_{40} = 506# , wt = 144# } 42.1' FROM TOP

PREPARED BY: REK
DATE: 5-10-83
STAINLESS INC.
WIND LOAD AND WEIGHT SUMMARY
PAGE NO. 1.1
REPORT NO. 601-P
G-7

5" O.D. x .300W	ELEV. 0 TO 442 FEET 108 Wind Load #/Ft.	Ref.	40 # #/Ft.	Weight #/Ft.	Ref.
Bare Tower	11.85			68.21	
Ladder	1.39			5.00	
Coax (1) 3" HELIAX (4) GPD 5/8	1.74 1.23			1.78 2.60	
Conduit (1) 3/4" P	.58			1.13	
Other					
TOTAL	16.79		67.2	78.72	

5" O.D. x .205W	ELEV. 442.1 FT. TO 70' FEET 108 Wind Load #/Ft.	Ref.	40 # #/Ft.	Weight #/Ft.	Ref.
Bare Tower	11.85			54.21	
Ladder	1.39			5.00	
Coax (1) 3" HELIAX	1.74			1.78	
Conduit (1) 3/4" P	.58			1.13	
Other					
Total	15.56		62.2	62.12	

	ELEV. FT. TO FEET. 108 Wind Load #/Ft.	Ref.	# #/Ft.	Weight #/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

	ELEV. FT. TO FEET. 108 Wind Load #/Ft.	Ref.	# #/Ft.	Weight #/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

	ELEV. FT. TO FT. 108 Wind Load #/Ft.	Ref.	# #/Ft.	Weight #/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

JAN 22 085

PREPARED BY
DATE 11/14/83 11:45:25

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.4
JOB NO. WRBS

WIND INTO LEGS TRIAL NO. 1 MAX ANCHOR LOADS

INDIVIDUAL GUY COMPONENTS AT ANCHOR

HORIZ. DIST. TO ANCHOR(FT.)	GUY LEVEL	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT (KIPS)
65.0	1	26.796	12.616	0.0	29.618
130.0	2	27.734	12.910	0.0	30.591
	3	54.132	17.134	0.0	56.779

ANCHOR LOADS

HORIZ. DIST. TO ANCHOR(FT.)	VERT. COMP. (KIPS)	HORIZ. COMP. (KIPS)	HORIZ. COMP. AT ANCHOR PERPENDICULAR TO GUY(KIPS)	RESULTANT ANGLE(DEG)	RESULTANT OF GUYS AT ANCHOR (KIPS)
65.0	26.796	12.616	0.0	64.8	29.618 $1\frac{1}{2}$"φ A36 $P_a = 38^k$
130.0	81.866	30.043	0.0	69.8	37.204 (2) C6x8.2# A572, GRADE 50 $P_a = 128^k$

PREPARED BY
DATE 11/14/83 11:48:11

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 3.1
JOB NO. WRBS

WIND INTO FACE TRIAL NO. 1 GUY DATA

FINAL TEMP. = 60. INITIAL TEMP. = 60.

GUY LEVEL	STD. GUYS	INTL DEFLECTION (FT.)	INCR	GUYS/ ANCHOR	WIND VELO. (MPH)	HORIZ. (FT)	VERT. (FT)	INITL TENSN. (KIPS)	RADIAL ICE THCK. (IN.)	ICE WT/CU.FT.	GUY DIAM. (IN.)	MOD OF ELAST (OF GUYS)	GUYS THIS LEV.	DIST INCT GUYS
1	S	1.50	0.20	1.	100.0	65.0	142.1	6.500	0.0	0.0	0.8125 BS	0.240E+08	3.	2
2	S	3.00	0.30	1.	100.0	130.0	292.1	7.000	0.0	0.0	0.8125 BS	0.240E+08	3.	2
3	S	4.50	0.40	1.	100.0	130.0	442.1	19.000	0.0	0.0	1.1250 BS	0.240E+08	3.	2

Guy level 1: GUY WT/FT = 1.390 CROSS SECTIONAL AREA (SQ.IN.) = 0.3960

GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS
1	60.	2.020	2.
2	180.	-4.040	1.

Guy level 2: GUY WT/FT = 1.390 CROSS SECTIONAL AREA (SQ.IN.) = 0.3960

GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS
1	60.	2.020	2.
2	180.	-4.040	1.

Guy level 3: GUY WT/FT = 2.660 CROSS SECTIONAL AREA (SQ.IN.) = 0.7760

GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS
1	60.	2.020	2.
2	180.	-4.040	1.

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STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 3.2
JOB NO. WRBS

WIND INTO FACE TRIAL NO. 1 SEE p 2.2 FOR MAX. GUY LOADS

GUY LEVEL	MOMENTS (FT.KIPS)	SHEARS (KIPS)	REACTIONS (KIPS)	GUY DIAM. (IN.)	UTS (KIPS)	GUY LOAD X F.S.(KIPS)	TOWER DEFLEC(FT)	GUY LUG ANGLE(DEG)	GUY(FT) LENGTH	INITIAL TENS(KIPS)
3	-307.957 -121.472	6.950 4.701	13.069	1.1250 BS	156.000	129.254	5.29	73.8	460.8	19.000
	42.801 (67.0 FT. FROM TOP OF SPAN)									
2	-193.540 -91.517	5.626 4.728	11.025	0.8125 BS	80.000	71.940	3.46	66.2	319.7	7.000
	62.394 (64.0 FT. FROM TOP OF SPAN)									
1	-194.874 -89.375	5.832 5.404	12.209	0.8125 BS	80.000	73.193	1.75	65.3	156.3	6.500
	150.641 (81.0 FT. FROM TOP OF SPAN)									
BASE	0.0	4.146								

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STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 3.3
JOB NO. WRBS

LEG LOADS--WIND INTO FACE

LEVEL	ELEVATION (FT.)	(WT +VC)/3. (KIPS)	LEG A (KIPS)	LEG B (KIPS)	LEG SIZE	HORIZONTALS	DIAGONALS
3	442.1	2.716 36.978	53.517 57.016	-22.685 26.959			
		38.747 (67.0 FT. FROM TOP OF SPAN.)	31.687	42.278			
2	292.1	40.925 58.830	72.852 73.926	24.961 51.281			
		60.675 (64.0 FT. FROM TOP OF SPAN.)	50.383	65.821			
1	142.1	62.931 80.834	95.078 95.577	46.858 73.462			
		82.959 (81.0 FT. FROM TOP OF SPAN.)	58.109	95.384			
BASE	0.0		84.562	84.562			

SEE p 4

TOTAL LOAD ON BASE = 253.685 ← MAX BASE LOAD

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JAN 22 1985

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BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2
JOB NO. WRBS

TOWER DATA TRIAL NO. 1

TOWER WIDTH(FT.)	SAFETY FACTOR ON GUYS	MOMENT ABOVE TOP GUY(FT.KIPS)	SHEAR ABOVE TOP GUY(KIPS)	WT. ABOVE TOP GUY(KIPS)	MOD. OF ELASTICITY OF TOWER
7.00	2.50	307.957	6.950	8.147	0.29E+08

GUY SPAN	SPAN LENGTH(FT)	LEG DIA. (IN.)	WALL THK. OF LEG (IN.)	W.L./FT. IN SPAN(LB/FT)	WT./FT. IN SPAN(LB/FT)	CONC. W.L. AT GUY POINT(KIPS)	CONC. WT. AT GUY PT.(KIPS)
1	142.1	5.0000	0.3000	67.2	78.7	0.0	0.0
2	150.0	5.0000	0.3000	67.2	78.7	0.0	0.0
3	150.0	5.0000	0.3000	67.2	78.7	0.0	0.0

GUY SPAN	FIRST CONC. LOAD FROM TOP OF SPAN FT. FROM TOP	W.L. KIPS	WT. KIPS	SECOND CONC. LOAD FROM TOP OF SPAN FT. FROM TOP	W.L. KIPS	WT. KIPS
1	0.0	0.0	0.0	0.0	0.0	0.0
2	32.1	0.480	0.500	0.0	0.0	0.0
3	21.1	-0.259	-0.109	42.1	0.506	0.144

PREPARED BY
DATE 11/14/83 11:45:42

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.1
JOB NO. WRBS

WIND INTO LEGS TRIAL NO. 1 GUY DATA

FINAL TEMP. = 60. INITIAL TEMP. = 60.

GUY LEVEL	STD. GUYS	INTL DEFLECTION (FT.)	INCR (FT.)	GUYS/ ANCHOR	WIND VELO. (MPH)	HORIZ. (FT)	VERT. (FT)	INITL TENSN. (KIPS)	RADIAL ICE THCK. (IN.)	WT/CU.FT.	GUY DIAM. (IN.)	MOD OF ELAST (OF GUYS)	GUYS THIS LEV.	DIST INCT GUYS
1	S	0.70	0.20	1.	100.0	65.0	142.1	6.500	0.0	0.0	0.8125 FS	0.240E+08	3.	2
	GUY WT/FT = 1.390			CROSS SECTIONAL AREA (SQ.IN.) = 0.3960						GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	
2	S	1.20	0.30	1.	100.0	130.0	292.1	7.000	0.0	0.0	0.8125 BS	0.240E+08	3.	2
	GUY WT/FT = 1.390			CROSS SECTIONAL AREA (SQ.IN.) = 0.3960						GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	
3	S	2.90	0.40	1.	100.0	130.0	442.1	19.000	0.0	0.0	1.1250 BS	0.240E+08	3.	2
	GUY WT/FT = 2.660			CROSS SECTIONAL AREA (SQ.IN.) = 0.7760						GUY NO.	GUY ANGLE	ECC MOM ARM	NO. OF GUYS	
										1	0.	4.040	1.	
										2	120.	-2.020	2.	

PREPARED BY
DATE 11/14/83 11:44:51

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.2
JOB NO. WRBS

WIND INTO LEGS TRIAL NO. 1 MAXIMUM GUY LOADS

GUY LEVEL	MOMENTS (FT.KIPS)	SHEARS (KIPS)	REACTIONS (KIPS)	GUY DIAM. (IN.)	UTS (KIPS)	X F.S.(KIPS)	GUY LOAD	TOWER DEFLEC(FT)	GUY LUG ANGLE(DEG)	GUY(FT) LENGTH	INITIAL TENS(KIPS)
3	-307.957	6.950	12.294	1.1250 BS	156.000	>	144.688	3.26	73.9	460.8	19.000
	-123.318	4.568									
	31.129 (65.0 FT. FROM TOP OF SPAN)										
2	-215.310	5.759	10.587	0.8125 BS	80.000	>	77.405	1.95	66.3	319.7	7.000
	-114.413	4.661									
	30.420 (63.0 FT. FROM TOP OF SPAN)										
1	-227.917	5.899	11.742	0.8125 BS	80.000	>	74.497	0.91	65.4	156.3	6.500
	-125.707	5.659									
	125.226 (85.0 FT. FROM TOP OF SPAN)										
BASE	0.0	3.890									

PREPARED BY
DATE 11/14/83 11:45:11

STAINLESS INC.
BEAM COLUMN WITH ELASTIC SUPPORTS

PAGE 2.3
JOB NO. WRBS

LEG LOADS--WIND INTO LEGS

LEVEL	ELEVATION (FT.)	(WT +VC)/3. (KIPS)	LEG A (KIPS)	LEG B (KIPS)	LEG SIZE	HORIZONTALS	DIAGONALS
3	442.1	2.716	-48.086	28.116			
		27.861	7.518	38.032			
		29.578	34.713	27.010			
		(65.0 FT. FROM TOP OF SPAN.)					
2	292.1	31.808	-3.710	49.567			
		43.510	24.636	52.947			
		45.330	50.348	42.821			
		(63.0 FT. FROM TOP OF SPAN.)					
1	142.1	47.612	10.014	66.411			
		57.846	37.109	68.214			
		60.076	80.733	49.747			
		(85.0 FT. FROM TOP OF SPAN.)					
BASE	0.0		61.573	61.573			

TOTAL LOAD ON BASE = 184.720 SEE p 3.3 FOR MAX BASE LOAD

SEE p 4

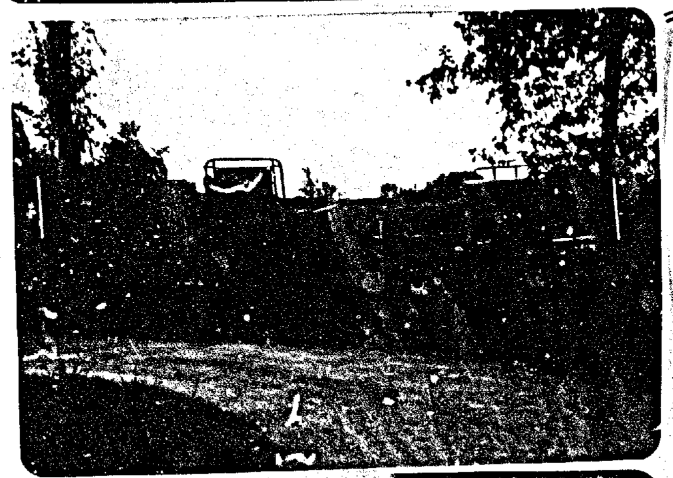
JAN 22 1985

#84-131-SPHA

#7

VIEW OF TOWER NEAR FOOT OF PRIVATE PAVED PORTION OF OLD GEORGETOWN RD.

#8



VIEW OF JUNKYARD

#9

JUNKYARD ON WEST SIDE OF WASHINGTON BLVD.

Stainless, inc.

NORTH WALES • PENNSYLVANIA

PETITIONER'S EXHIBIT 10

Stainless, inc.

NORTH WALES • PENNSYLVANIA

REPORT 601-P

DATE: November 14, 1983

TITLE

STRUCTURAL ANALYSIS
PROPOSED 520 FT. G-7 TOWER
WRBS, BALT'MORE, MD

PREPARED: JLW APPROVED: [signature]

CHECKED BY:

CONTRACT NO. OR REFERENCE:

SUBJECT OF CONTRACT:

Revisions

Date	Pages	Remarks

PREPARED BY: JLW:pu
DATE: 11-14-83

STAINLESS INC.
TABLE OF CONTENTS

PAGE NO. 1
REPORT NO. 601-P

REV	DATE	DESCRIPTION

FOR STRUCTURAL ANALYSIS
BEAM COLUMN TYPE

DESCRIPTION	PAGE NO.
GENERAL ARRANGEMENT DRAWING	1
WIND LOAD AND WEIGHT SUMMARY	1.1
WIND INTO TOWER LEGS	
TOWER INPUT DATA	2
GUY INPUT DATA	2.1
GUY LOADS, TOWER MOMENTS AND SHEARS	2.2
TOWER LEG AND BASE PIER LOADS	2.3
ANCHOR LOADS	2.4
WIND INTO TOWER FACE	
GUY INPUT DATA	3.1
GUY LOADS, TOWER MOMENTS AND SHEARS	3.2
TOWER LEG AND BASE PIER LOADS	3.3
ANCHOR LOADS	3.4
MEMBER SIZES AND LOADS	4
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VERTICAL LEGS	5
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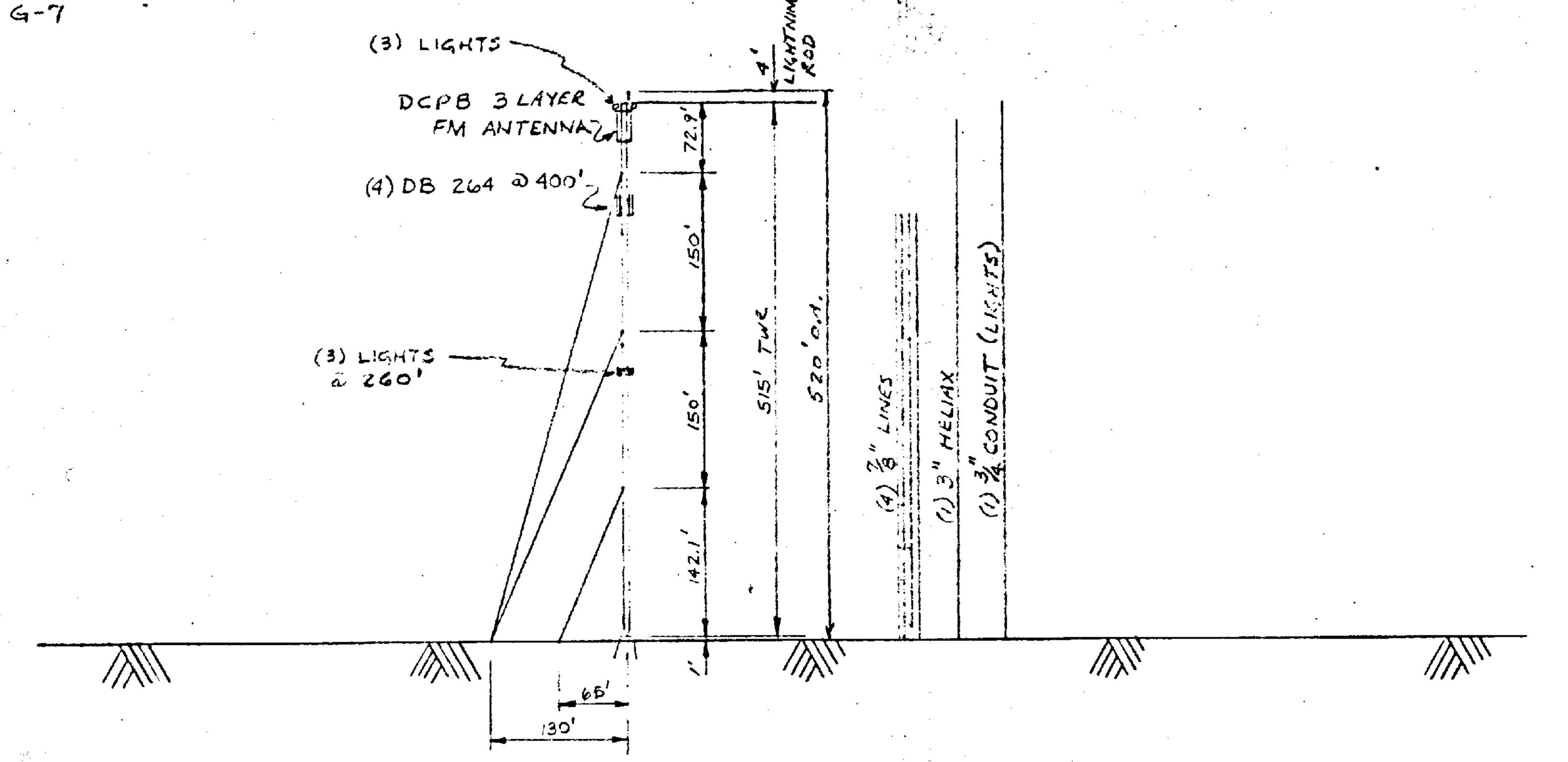
HORIZONTALS	5.3, 5.4

PREPARED BY: RCK JLW 11/14/83
DATE: 5-10-83

STAINLESS INC.
SPECIFICATIONS & ARRANGEMENT

PAGE NO. 1
REPORT NO. 601-P

G-7



REV	DATE	DESCRIPTION

Location: WRBS BALTIMORE, MD

Wind Load: 40 psf EIA

Guys

Clip

Fixed ✓ SOCKETS

Antenna DIELECTRIC
Type DCPB 5 PANEL
Ht. 30'
Wt. 3120#
Bury or Pedestal
M.
S. wl_{40} : 1935#
R_1
R_2
R_3

Other Requirements:

SPECIAL INSTRUCTIONS

LOADS ABOVE TOP GUY

Σ MOMENTS = $(\frac{72.9^2}{2} \times 62.2) + (430 \times 71.9) + (1935 \times 55.9) = 307{,}957$ '#

Σ SHEARS = 400 + 72.9 × 62.2 + 1935 = 6950#

Σ WEIGHT = 500 + 72.9 × 62.1 + 3120 = 8147#

LOADS IN TOP SPAN

(4) 7/8" LINES wl_{40} = 259#, wt = 109# } 21.1' FROM TOP

(4) DB 264 wl_{40} = 506#, wt = 144# } 42.1' FROM TOP

PREPARED BY: RCK JLW 11/14/83
DATE: 5-10-83

STAINLESS INC.
WIND LOAD AND WEIGHT SUMMARY G-7

PAGE NO. 1.1
REPORT NO. 601-P

5" O.D. × .300W	ELEV. 0 TO 442.1 FEET				
	10# Wind Load		40 #	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower	11.85			68.21	
Ladder	1.39			5.00	
Coax (1) 3" HELIAX	1.74			1.78	
(4) GPD 7/8	1.23			2.60	
Conduit (1) 3/4" ϕ	.58			1.13	
Other					
TOTAL	16.79		67.2	78.72	

5" O.D. × .203W	ELEV. 442.1 FT. TO TOP FEET				
	10# Wind Load		40 #	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower	11.85			54.21	
Ladder	1.39			5.00	
Coax (1) 3" HELIAX	1.74			1.78	
Conduit (1) 3/4" ϕ	.58			1.13	
Other					
Total	15.56		62.2	62.12	

	ELEV. FT. TO FEET.				
	10# Wind Load		#	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

	ELEV. FT. TO FEET.				
	10# Wind Load		#	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

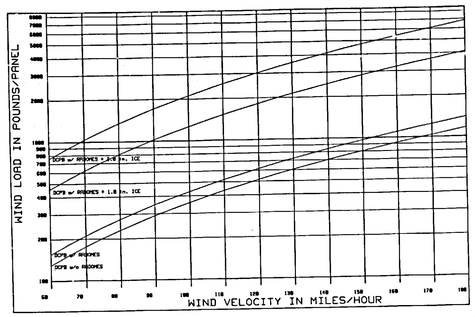
	ELEV. FT. TO FEET.				
	10# Wind Load		#	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

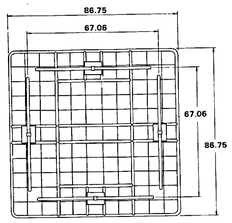
	ELEV. FT. TO FT.				
	10# Wind Load		#	Weight	
	#/Ft.	Ref.	#/Ft.	#/Ft.	Ref.
Bare Tower					
Ladder					
Coax					
Conduit					
Other					
Total					

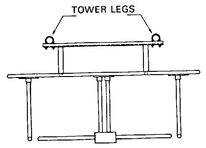
JAN 22 1985

DCPB MEDIUM POWER FM PANEL ANTENNA

Mechanical Specifications: see drawing
Wind Load: see Curve







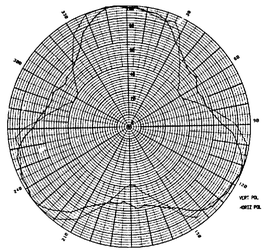
TOP VIEW

Contact DIELECTRIC with your requirements for antenna, combiner, diplexer or other RF transmission requirements.

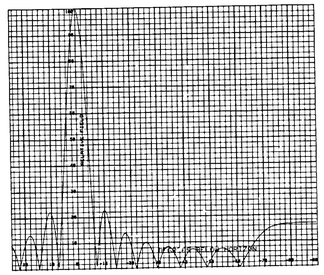
Electrical Specifications:
VSWR: 1.20:1 across 20 MHz of FM band

Typical Patterns

Azimuth



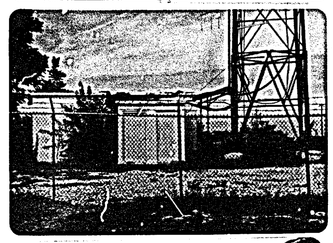
Elevation



Special patterns per your requirements can be computer synthesized and tested on our quarter-scale range.

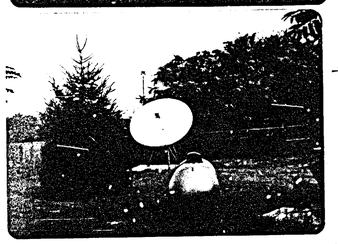
CASE NO. 84-131-SPHA
PETER & JOHN RADIO FELLOWSHIP, INC.
3600 GEORGETOWN RD.

#1 · STUDIO FOR RADIO STATION WRBS



#2 EXISTING TOWER BASE AND STUDIO

BOARD OF APPEALS
PETITIONER'S EXHIBIT 2



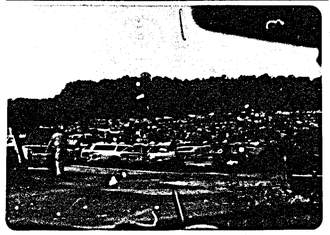
#3 RECEIVING DISH

CASE NO. 84-131-SPHA
PETER & JOHN RADIO FELLOWSHIP, INC.
3600 Georgetown Rd.

#4 FRONT GATE AND ENTRANCE

#5 VIEW OF STUDIO FROM STUDIO PROPERTY

BOARD OF APPEALS
PETITIONER'S EXHIBIT 2



#6 JUNKYARD ON WEST SIDE OF WASHINGTON BLVD.
VISIBLE FROM GEORGETOWN ROAD.

BOARD OF APPEALS
PETITIONER'S EXHIBIT 9

C 065-1

GENERAL SIGNAL
DIELECTRIC

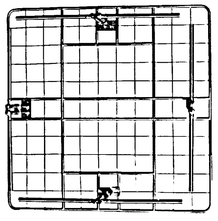
WAVEGUIDE
RECTANGULAR AND CIRCULAR
COAX TRANSMISSION LINE AND ACCESSORIES
DEHYDRATORS
RF TERMINATION LOADS COUPLERS
ANTENNAS
FM RING PANEL TV PANEL

FOR CATALOGS ON THESE PRODUCTS PLEASE WRITE OR CALL DIELECTRIC

DCPB MEDIUM POWER FM PANEL ANTENNA

FEATURES

- Low Cost
- Low Wind Load
- Broad Band
- Variable Polarization
- Low Weight - High Strength/ Weight Ratio
- High Power
- Single or Dual Input
- Adjustable Mounts



GENERAL DESCRIPTION

The DCPB Panel Antenna is designed for installations where more accurate azimuth and elevation patterns are required than might be obtained with an element antenna. The DCPB utilizes four dipole elements per panel as opposed to the usual two. This configuration allows the beam width of both horizontal and vertical polarizations to be as similar as possible, and provides a higher gain per panel than is possible with the two dipole type.

The panel and dipole elements are made of stainless steel tubing with resultant strong and lightweight structure. Where required, radomes are provided for each individual dipole presenting low windload.

Each dipole element is fed separately allowing for multiple combinations of feed systems to tailor the pattern desired for a variety of directional requirements. This feature also allows for a choice of circular polarization, as well as horizontal and vertical polarization.

Directionalization can be attained by panel quality used and power and/or phasing to individual panels. A large variety of patterns are attainable with this system and can be computer synthesized in advance of manufacture.

Systems composed of these panels can be assembled and tested on the Dielectric Communications quarter-scale range to insure compliance with specific pattern requirements.

The bandwidth of the DCPB panel allows for multi-station installations, with VSWR over a 20 MHz bandwidth of 1.2:1 or less with the power rating for one panel of 10kW. Special systems requiring more power are possible.

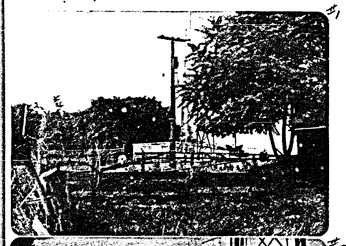
Diplexing equipment and transmission line for multi-station systems can be provided by Dielectric Communications allowing one supplier for all your RF systems requirements.

Printed in U.S.A.

For more information write or call . . .

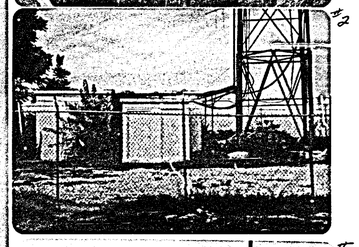
DIELECTRIC COMMUNICATIONS GS
A UNIT OF GENERAL SIGNAL
RAYMOND, MAINE 04071 • TEL: 207-655-4555
TWX 710-229-6890 TEL: 800-341-9678

DIELECTRIC COMMUNICATIONS GS
A UNIT OF GENERAL SIGNAL
RAYMOND, MAINE 04071 • TEL: 207-655-4555
TWX 710-229-6890 TEL: 800-341-9678

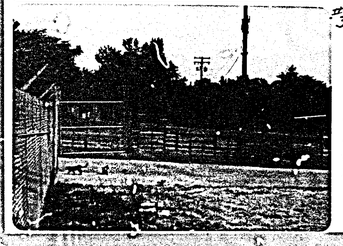


CASE NO. 84-131-SPHA
PETER & JOHN RADIO FELLOWSHIP, INC.
3600 GEORGETOWN ROAD

#1 STUDIO FOR RADIO STATION WRBS

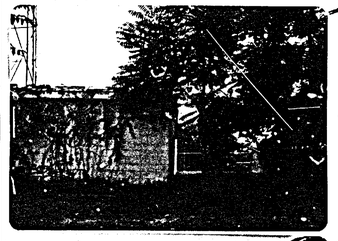


#2 EXISTING TOWER BASE & STUDIO



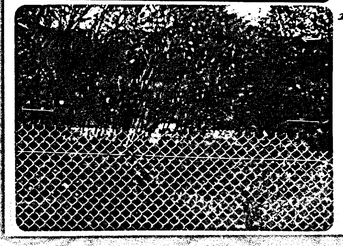
#3 FRONT GATE & ENTRANCE

PETITIONER'S EXHIBIT 2



#4 REAR OF STUDIO FOR WRBS

#5 SATELLITE RECEIVING DISH



#6 NORTHBOUND LANE OF I-95 TO WEST OF PROPERTY

#84-131-SPHA

JAN 22 1985

NATIONAL RELIGIOUS BROADCASTERS

CN 1926 Morristown, New Jersey 07960 (201) 575-4000
Ben Armstrong, Ph.D., Executive Director

January 4, 1983

Mr. J. Thomas Bissett
WRBS
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Tom,

I am delighted to officially confirm the fact that you will be receiving the Award of Merit at our 40th Anniversary Convention, January 30-February 2, 1983, at the Sheraton Washington Hotel, Washington, D. C.

You are to be congratulated for your leadership in the field of religious broadcasting, especially as it pertains to radio station ownership and operation.

Your award is scheduled to be given at the Anniversary Banquet on Wednesday evening, February 2, at 7:00 p.m. in the Ballroom at the Sheraton Washington Hotel. I understand that you cannot be with us on Tuesday when your award normally would be given at the FCC Luncheon because of a commitment at Founders' Week in Chicago.

It would be helpful to receive a photo and biographical information for publicity purposes, if you have not already sent it.

We are looking forward with keen anticipation to seeing you at the convention.

With warm personal regards, I am

Cordially yours in Christ,

Ben

Ben Armstrong
Executive Director

BA:es

40th NRB Annual Convention, Jan. 30-Feb. 2, 1983, Sheraton Washington Hotel, Washington, D.C.

FELLOWSHIP of LIGHTS, Inc.
Shelter and Counseling Services for Youth in Crisis
1300 North Calvert Street Baltimore, Maryland 21202

November 11, 1983

Tom Bisset
WRBS Radio
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Mr. Bisset,

The Fellowship of Lights, Inc. a non-profit, private agency that works with teenagers in crisis and their families taking this opportunity to thank WRBS Radio for airing our public service announcements on a continuous basis. Young people and their families who have heard the public service announcements have called the Fellowship and received the necessary services to assist them through their crisis.

We hope that WRBS will be able to continue airing the public service announcements, allowing those who are in need the opportunity to know of our services.

Sincerely,

Michael D. Snowden
Michael D. Snowden
Administrative Assistant

PETITIONER'S EXHIBIT 5

Administration: 837-8155 Crisis Line: 385-1200

The BALTIMORE GOODWILL INDUSTRIES, Inc.
4001 Southwestern Boulevard
Baltimore, Maryland 21229
(301) 247-3500
Harvey E. Kettering, II
President

November 11, 1983

Mr. Tom Bissett
WRBS-FM
3600 Georgetown Rd.
Baltimore, Md. 21227

Dear Tom:

As 1983 draws to a close, we would like to express our sincere appreciation to you for WRBS-FM's continued interest in Baltimore Goodwill Industries. The Thanksgiving project PSA's, and many other announcements and interviews that were aired, have added immeasurably to your listeners understanding of the role that Goodwill plays in our community. We thank you.

Please convey our appreciation to your entire staff for their fine civic service, and extend our best wishes for a happy holiday season followed by another year of accomplishment and community involvement.

Tom, may the months that lie ahead bring you continued satisfaction in your work and every good blessing of health and happiness.

Sincerely,

Harvey

Harvey E. Kettering, II
President

ACCREDITED BY COMMISSION ON ACCREDITATION OF REHABILITATION FACILITIES AND GOODWILL INDUSTRIES OF AMERICA, INC.

JARL WAHLSTROM
GENERAL

MAJOR W. EDWARD LAITY
DIVISIONAL COMMANDER

The Salvation Army
FOUNDED IN 1865 BY WILLIAM BOOTH
DIVISIONAL HEADQUARTERS
OF
MARYLAND AND NORTHERN WEST VIRGINIA
POST OFFICE BOX 7290
2641 MARYLAND AVENUE
BALTIMORE, MARYLAND 21218

ANDREW S. MILLER
TERRITORIAL COMMANDER

TELEPHONE
(301) 889-4025

14 November 1983
Baltimore, Maryland

To whom it may concern:

The Salvation Army in Baltimore enthusiastically supports WRBS in its plan to increase the area it serves. WRBS has willingly assisted The Salvation Army in its attempts to bring community needs to public attention, and beyond a doubt, our ability to serve the Baltimore area has been greatly enhanced by programming on this fine radio station.

The Salvation Army provides food, rent and utilities assistance, clothes, shelter, and many other programs as a community service. It would be difficult or impossible to provide the present degree of care without the very real support of stations such as WRBS.

Any interested party may contact this office for further information.

Richard W. O'Brien

Richard W. O'Brien
Director of
Community Relations

LUTHERAN MISSION SOCIETY OF MARYLAND

November 9, 1983

Mr. Tom Bissett
General Manager
WRBS
3600 Georgetown Road
Baltimore, MD 21227

Dear Tom:

The conversation we had over the air on "Baltimore Speaks Out" regarding Martin Luther's 500th birthday is bringing many fine and positive reactions for the broadcast. Thanks Tom, for having interest in this historic event. It certainly is receiving wide attention. This is another indication of how WRBS responds to the needs and interests of the community.

As the director of a health care and service organization in Maryland I deeply appreciate your ministry in our midst. Your public service programs, your community bulletin board and your community affairs broadcast, together with your many other fine programs are an important service to our community. Over the years that we have worked together I continually find WRBS growing in its influence in the community.

Again, thanks for this valuable service to your ever increasing listening audience.

Cordially,

Richard L. Alms, Ph.D.
Executive Director

RLA/jp

Richard L. Alms, Executive Director
01 South Charles Street
ltimore, Maryland 21230 — 539-7322
TTY — 539-0903
NTERS
01 South Charles Street — 685-5674
06 Eastern Avenue — 327-2220
4 Eastern Boulevard — 391-0877
2 West Street, Annapolis — 269-6016
5 Race Street, Cambridge — 228-8437

SERVICES
Church and Community Relations
Deaf Services
Emergency and Community Services
Housing Services
Mental Retardation
Pastoral Care and Counseling
Volunteer Services

CITY OF BALTIMORE
WILLIAM DONALD SCHAEFER, Mayor

ENOCH PRATT FREE LIBRARY
400 Cathedral Street
Baltimore, Maryland 21201-4484

November 10, 1983

Mr. Tom Bissett
Station WRBS-FM
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Mr. Bissett:

The Pratt Library would like to express its appreciation to you for the assistance you give us from week to week in publicizing our programs and services. We have found Station WRBS-FM very responsive to our requests and we would like you to know that the many public service announcements you have aired for us have been useful not only to the Pratt Library, but to the Baltimore community at large. We hope that we may continue to count on you for your cooperation and help.

Cordially,

(Mrs) Averil J. Kadish
Chief, Public Relations Division

P.S. I enjoyed reading your article on Martin Luther in tonight's Evening Sun.

American Heart Association
MARYLAND AFFILIATE, INC.

415 N. Charles Street
P.O. Box 17025
Baltimore, Maryland 21203
(301) 685-7074

November 14, 1983

To Whom It May Concern:

During the past year, WRBS Radio has provided valuable public service time to the American Heart Association. In addition to playing our national spots periodically throughout the year, the station has featured talk shows on heart disease. During February, National Heart Month, WRBS has had a cardiologist speak on the risk factors of heart disease. Shows such as this are valuable in increasing public awareness about the individual's role in the fight against our nation's number one killer.

I have only been with the Heart Association for a little over a year, so I cannot comment on any prior work with WRBS. If you would like more information on their recent public service efforts, however please call me at 685-7074.

Sincerely,

Laura Crosby

Laura Crosby
Assistant Director
Public Relations

LC/pe

Serving the State of Maryland • An Affiliate of the American Heart Association
An Equal Opportunity Service and Employment Voluntary Health Agency

JAN 22 1985

Mr. J. Thomas Bisset Page 2.

With respect to the proposed directional antenna pattern, WRBS requests a suppression ratio of 15.4 dB. Section 73.316(a) of the Rules sets a limit on this ratio of 15 dB. Since the requested ratio exceeds the limit by a minimal amount it should be considered insignificant, as well as technically feasible based on current design standards.

Consequently, based on the justifications given above, the waiver requests for Sections 73.207 and 73.316(c) are granted. The waiver request for Section 73.213(a) is hereby dismissed.

Key Broadcasting Corporation objects to the grant of the above-captioned application because the possibility exists that WRBS could install a directional antenna which increases the overlap of contours involved in the current short-spacing between the two stations. The above-captioned application does not propose any increase in 20 mV/m contour overlap between the two stations. Since WRBS must comply with the terms and conditions of the permit, and the antenna pattern specified will not increase overlap, Key's objection is purely speculative, does not raise a substantial and material question of fact which would require a hearing, and must be denied.

Accordingly, in light of the above, the informal objection filed by Key Broadcasting Corporation is DENIED and the above-captioned application is GRANTED subject to the terms and conditions as set forth in the construction permit.

Larry D. Eads, Chief
Audio Services Division
Mass Media Bureau

cc: Fletcher, Heald & Hildreth
Lauren Colby, Esq.

ZM:MMB

FELLOWSHIP of LIGHTS, Inc.
Shelter and Counseling Services for Youth in Crisis
1300 North Calvert Street Baltimore, Maryland 21202

November 11, 1983

Tom Bisset
WRBS Radio
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Mr. Bisset,

The Fellowship of Lights, Inc. a non-profit, private agency that works with teenagers in crisis and their families is taking this opportunity to thank WRBS Radio for airing our public service announcements on a continuous basis. Young people and their families who have heard the public service announcements have called the Fellowship and received the necessary services to assist them through their crisis.

We hope that WRBS will be able to continue airing the public service announcements, allowing those who are in need the opportunity to know of our services.

Sincerely,

Michael D. Snowden
Administrative Assistant

BOARD OF APPEALS
PETITIONER'S
EXHIBIT 4

Administration: 837-8155 Crisis Line: 385-1200

The BALTIMORE GOODWILL INDUSTRIES, Inc.
4001 Southwestern Boulevard
Baltimore, Maryland 21229
(301) 247-3500

Harvey E. Kettering, II
President

November 11, 1983

Mr. Tom Bissett
WRBS-FM
3600 Georgetown Rd.
Baltimore, Md. 21227

Dear Tom:

As 1983 draws to a close, we would like to express our sincere appreciation to you for WRBS-FM's continued interest in Baltimore Goodwill Industries. The Thanksgiving project PSA's, and many other announcements and interviews that were aired, have added immeasurably to your listeners understanding of the role that Goodwill plays in our community. We thank you.

Please convey our appreciation to your entire staff for their fine civic service, and extend our best wishes for a happy holiday season followed by another year of accomplishment and community involvement.

Tom, may the months that lie ahead bring you continued satisfaction in your work and every good blessing of health and happiness.

Sincerely,

Harvey E. Kettering, II
President

ACCREDITED BY COMMISSION ON ACCREDITATION OF REHABILITATION FACILITIES AND GOODWILL INDUSTRIES OF AMERICA, INC.

JARL WAHLSTROM
GENERAL

ANDREW S. MILLER
TERRITORIAL COMMANDER

The Salvation Army
FOUNDED IN 1865 BY WILLIAM BOOTH
DIVISIONAL HEADQUARTERS
FOR
MARYLAND AND NORTHERN WEST VIRGINIA
POST OFFICE BOX 7250
2641 MARYLAND AVENUE
BALTIMORE, MARYLAND 21218

MAJOR W. EDWARD LAITY
DIVISIONAL COMMANDER

TELEPHONE
(301) 889-4025

14 November 1983
Baltimore, Maryland

To whom it may concern:

The Salvation Army in Baltimore enthusiastically supports WRBS in its plan to increase the area it serves. WRBS has willingly assisted The Salvation Army in its attempts to bring community needs to public attention, and beyond a doubt, our ability to serve the Baltimore area has been greatly enhanced by programming on this fine radio station.

The Salvation Army provides food, rent and utilities assistance, clothes, shelter, and many other programs as a community service. It would be difficult or impossible to provide the present degree of care without the very real support of stations such as WRBS.

Any interested party may contact this office for further information.

Richard W. O'Brien
Director of
Community Relations

LUTHERAN MISSION SOCIETY OF MARYLAND

November 9, 1983

Mr. Tom Bissett
General Manager
WRBS
3600 Georgetown Road
Baltimore, MD 21227

Dear Tom:

The conversation we had over the air on "Baltimore Speaks Out" regarding Martin Luther's 500th birthday is bringing many fine and positive reactions for the broadcast. Thanks Tom, for having interest in this historic event. It certainly is receiving wide attention. This is another indication of how WRBS responds to the needs and interests of the community.

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SERVICES
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CITY OF BALTIMORE
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Station WRBS-FM
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Baltimore, Maryland 21227

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Chief, Public Relations Division

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American Heart Association
MARYLAND AFFILIATE, INC.

415 N. Charles Street
P.O. Box 17025
Baltimore, Maryland 21203
(301) 685-7074

November 14, 1983

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During the past year, WRBS Radio has provided valuable public service time to the American Heart Association. In addition to playing our national spots periodically throughout the year, the station has featured talk shows on heart disease. During February, National Heart Month, WRBS has had a cardiologist speak on the risk factors of heart disease. Shows such as this are valuable in increasing public awareness about the individual's role in the fight against our nation's number one killer.

I have only been with the Heart Association for a little over a year, so I cannot comment on any prior work with WRBS. If you would like more information on their recent public service efforts, however please call me at 685-7074.

Sincerely,

Laura Crosby
Assistant Director
Public Relations

LC/pe

Serving the State of Maryland • An Affiliate of the American Heart Association
An Equal Opportunity Service and Employment Voluntary Health Agency

---

NATIONAL RELIGIOUS BROADCASTERS

CN 1926 Morristown, New Jersey 07960 (201) 575-4000
Ben Armstrong, Ph.D., Executive Director

January 4, 1983

Mr. J. Thomas Bissett
WRBS
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Tom,

I am delighted to officially confirm the fact that you will be receiving the Award of Merit at our 40th Anniversary Convention, January 30-February 2, 1983, at the Sheraton Washington Hotel, Washington, D. C.

You are to be congratulated for your leadership in the field of religious broadcasting, especially as it pertains to radio station ownership and operation.

Your award is scheduled to be given at the Anniversary Banquet on Wednesday evening, February 2, at 7:00 p.m. in the Ballroom at the Sheraton Washington Hotel. I understand that you cannot be with us on Tuesday when your award normally would be given at the FCC Luncheon because of a commitment at Founders' Week in Chicago.

It would be helpful to receive a photo and biographical information for publicity purposes, if you have not already sent it.

We are looking forward with keen anticipation to seeing you at the convention.

With warm personal regards, I am

Cordially yours in Christ,

Ben

Ben Armstrong
Executive Director

BA:es

40th NRB Annual Convention, Jan. 30-Feb. 2, 1983, Sheraton Washington Hotel, Washington, D.C.

JAN 22 1985

US Department of Transportation
Federal Aviation Administration

Airspace and Procedures Branch, AEA-530
Air Traffic Division
Federal Aviation Administration
Federal Building
John F. Kennedy International Airport
Jamaica, New York 11430

IN REPLY REFER TO
AERONAUTICAL STUDY
NO. 83-AEA-0969-OE

DETERMINATION OF NO HAZARD TO AIR NAVIGATION

		CONSTRUCTION LOCATION	
SPONSOR	WRBS 3600 Georgetown Road Baltimore, MD 21227	PLACE NAME Baltimore, Maryland	
		LATITUDE 39-15-23	LONGITUDE 76-40-29
CONSTRUCTION PROPOSED	DESCRIPTION Antenna Tower	HEIGHT (IN FEET) ABOVE GROUND 511	ABOVE MSL 731

An aeronautical study of the proposed construction described above has been completed under the provisions of Part 77 of the Federal Aviation Regulations. Based on the study it is found that the construction would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the construction would not be a hazard to air navigation provided the following conditions are met:

Conditions:

The tower should be lighted and monitored in accordance with FAA Advisory Circular 70-7460-1F, Obstruction Marking and Lighting, Chapters 4, 6; and 9 or Chapters 4, 7, and 9.

Supplemental notice of construction is required any time the project is abandoned (use the enclosed FAA form), or

☑ At least 48 hours before the start of construction (use the enclosed FAA form).
☑ Within five days after the construction reaches its greatest height (use the enclosed FAA form).

This determination expires on May 9, 1984, unless:
(a) extended, revised or terminated by the issuing office;
(b) the construction is subject to the licensing authority of the Federal Communications Commission and an application for a construction permit is made to the FCC on or before the above expiration date. In such case the determination expires on the date prescribed by the FCC for completion of construction, or on the date the FCC denies the application.

NOTE: Request for extension of the effective period of this determination must be postmarked or delivered to the issuing office at least 15 days prior to the expiration date.

This determination is subject to review if an interested party files a petition on or before October 30, 1983 in the event a petition for review is filed, it should be submitted in triplicate to the Manager, Flight Information and Obstructions Branch, AAT-210, Federal Aviation Administration, Washington, D.C. 20591, and contain a full statement of the basis upon which it is made.

This determination becomes final on November 9, 1983, unless a petition for review is timely filed, in which case the determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review.

An account of the study findings, aeronautical objections, if any, registered with the FAA during the study, and the basis for the FAA's decision in this matter will be found on the following page(s).

If the structure is subject to the licensing authority of the FCC, a copy of this determination will be sent to that Agency.

This determination, issued in accordance with FAA Part 77, concerns the effect of this proposal on the safe and efficient use of the navigable airspace by aircraft and does not relieve the sponsor of any compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

PETITIONER'S EXHIBIT 3

SIGNED [signature] TITLE Manager, Airspace and Procedures Branch, AEA-530
ISSUED IN Jamaica, New York ON September 30, 1983

FAA Form 7460-9 (5/83) SUPERSEDES PREVIOUS EDITION

Page 1 of 3 Pages

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

June 15, 1983

IN REPLY REFER TO:
8920-DOB

Mr. J. Thomas Bisset
Peter & John Radio Fellowship, Inc.
Baltimore, Md. 21227

In re: Peter & John Radio Fellowship, Inc.
WRBS-FM, Baltimore, Md.
BMPH-821014AQ

Dear Mr. Bisset:

This letter is in reference to the above-captioned application for a minor change in FM Broadcast Station WRBS.

An engineering study reveals that your application is in contravention of Sections 73.207, 73.213(a), and 73.316(c), of the Commission's Rules. You have accordingly requested waivers of the aforementioned Rules.

Specifically, with respect to Section 73.207, the proposed site, which is also the licensed site, is located only 8 miles from WQSR (53 channels removed) instead of the required 15 miles.

Justification for granting the waiver request of Section 73.207 is as follows: WRBS is not changing site, just increasing height above average terrain (HAAT). The I.F. shortspacing, as well as some 20 mV/m contour overlap, already exists between WQSR and WRBS. However, the new WRBS operation will provide no increase in 20 mV/m contour distance toward WQSR (with the use of a directional antenna). Therefore, the potential for new I.F. interference should be minimal.

With respect to 73.213(a), WRBS is separated from co-channel station WIKZ-FM, Chambersburg, Pa., less than 75 miles (72 miles). According to Section 73.213 (which applies to WRBS) its facilities toward WIKZ should be limited to 5kW ERP at 500 feet HAAT. WRBS' present station license contains a condition limiting the ERP in the direction of WIKZ to 20kW. at the present WRBS HAAT of 260 feet; this is the equivalent of 5.7kW at 500 feet. WRBS wishes to maintain these same facilities in the direction of WIKZ. However, the directional antenna pattern submitted with this application shows an ERP less than 5kW radiated toward WIKZ; hence a waiver of 73.213(a) would not be needed for the requested facilities.

PETITIONER'S EXHIBIT 4

Mr. J. Thomas Bisset Page 2.

With respect to the proposed directional antenna pattern, WRBS requests a suppression ratio of 15.4 dB. Section 73.316(a) of the Rules sets a limit on this ratio of 15 dB. Since the requested ratio exceeds the limit by a minimal amount it should be considered insignificant, as well as technically feasible based on current design standards.

Consequently, based on the justifications given above, the waiver requests for Sections 73.207 and 73.316(c) are granted. The waiver request for Section 73.213(a) is hereby dismissed.

Key Broadcasting Corporation objects to the grant of the above-captioned application because the possibility exists that WRBS could install a directional antenna which increases the overlap of contours involved in the current short-spacing between the two stations. The above-captioned application does not propose any increase in 20 mV/m contour overlap between the two stations. Since WRBS must comply with the terms and conditions of the permit, and the antenna pattern specified will not increase overlap, Key's objection is purely speculative, does not raise a substantial and material question of fact which would require a hearing, and must be denied.

Accordingly, in light of the above, the informal objection filed by Key Broadcasting Corporation is DENIED and the above-captioned application is GRANTED subject to the terms and conditions as set forth in the construction permit.

Larry D. Eads, Chief
Audio Services Division
Mass Media Bureau

cc: Fletcher, Heald & Hildreth
Lauren Colby, Esq.

ZM:MMB

NRB

NATIONAL RELIGIOUS BROADCASTERS

CN 1926 Morristown, New Jersey 07960 (201) 575-4000
Ben Armstrong, Ph.D., Executive Director

January 4, 1983

Mr. J. Thomas Bissett
WRBS
3600 Georgetown Road
Baltimore, Maryland 21227

Dear Tom,

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It would be helpful to receive a photo and biographical information for publicity purposes, if you have not already sent it.

We are looking forward with keen anticipation to seeing you at the convention.

With warm personal regards, I am

Cordially yours in Christ,

Ben

Ben Armstrong
Executive Director

BA:es

PETITIONER'S EXHIBIT 6

40th NRB Annual Convention, Jan. 30-Feb. 2, 1983, Sheraton Washington Hotel, Washington, D.C.

RESUME OF
JOHN L. WINDLE
VICE PRESIDENT, ENGINEERING
STAINLESS, INC.

Home Address: 604 South Concord Road
West Chester, PA 19380

Date of Birth: January 6, 1932

Education: BS Engineering - Structural Major
Drexel University, Philadelphia, PA - 1966

Advanced studies in Structural Dynamics
Drexel University, Philadelphia, PA - 1969-70

Experience: Assistant Structural Engineer
Design of mill buildings and foundations
United Engineers and Constructors, Inc.
Philadelphia, PA
1964-1966

Manager of Structural Engineering
Design of tower and antenna structures and foundations
Trylon, Inc.
Elverson, PA
1966-1970

Chief Engineer
Design of tower structures and foundations
Stainless, Inc.
North Wales, PA
1970 - Present

Professional Registration:

Pennsylvania	No. 011766-E	Colorado	No. 20618
Ohio	No. E-034351	Oregon	No. 12077
Michigan	No. 19783	Indiana	No. 19518
Minnesota	No. 0011186	Alabama	No. 13984
Virginia	No. 1019200	New York	No. 059049
Maryland	No. 12623	West Virginia	No. 9050
		Missouri	No. E-20442

Publications:

"A Study of Factors in Tower Type and Site Selection," Communications News, June, 1967.

"Structural Considerations When Changing or Adding Antennas on Existing Towers." Proceedings - 29th Annual Broadcast Engineering Conference. National Association of Broadcasters, 1975.

Committees: EIA Subcommittee TR-14.7 responsible for maintenance of EIA Standard RS-222, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures."

PETITIONER'S EXHIBIT 8

US Department of Transportation
Federal Aviation Administration

Airspace and Procedures Branch, AEA-530
Air Traffic Division
Federal Aviation Administration
Federal Building
John F. Kennedy International Airport
Jamaica, New York 11430

IN REPLY REFER TO
AERONAUTICAL STUDY
NO. 83-AEA-0969-OE

DETERMINATION OF NO HAZARD TO AIR NAVIGATION

		CONSTRUCTION LOCATION	
SPONSOR	WRBS 3600 Georgetown Road Baltimore, MD 21227	PLACE NAME Baltimore, Maryland	
		LATITUDE 39-15-23	LONGITUDE 76-40-29
CONSTRUCTION PROPOSED	DESCRIPTION Antenna Tower	HEIGHT (IN FEET) ABOVE GROUND 511	ABOVE MSL 731

An aeronautical study of the proposed construction described above has been completed under the provisions of Part 77 of the Federal Aviation Regulations. Based on the study it is found that the construction would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the construction would not be a hazard to air navigation provided the following conditions are met:

Conditions:

The tower should be lighted and monitored in accordance with FAA Advisory Circular 70-7460-1F, Obstruction Marking and Lighting, Chapters 4, 6; and 9 or Chapters 4, 7, and 9.

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ISSUED IN Jamaica, New York ON September 30, 1983

FAA Form 7460-9 (5/83) SUPERSEDES PREVIOUS EDITION

Page 1 of 3 Pages

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

June 15, 1983

IN REPLY REFER TO:
8920-DOB

Mr. J. Thomas Bisset
Peter & John Radio Fellowship, Inc.
Baltimore, Md. 21227

In re: Peter & John Radio Fellowship, Inc.
WRBS-FM, Baltimore, Md.
BMPH-821014AQ

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JAN 22 1985