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STAMP & RETURN

July 21, 2014

ACCEPTED/FILED

JUL 21 2014

Federal Communications Commission
Office of the Secretary

VIA HAND DELIVERY
Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
Attn: Audio Division
Media Bureau

Re: Qantum of Myrtle Beach License Company, LLC
WYNA(FM), Calabash, North Carolina
Facility Id No. 24932
Request for Main Studio Location Compliance Determination

Dear Ms. Dortch:

On behalf of Qantum of Myrtle Beach License Company, LLC ("Qantum"), licensee of WYNA(FM), Calabash, North Carolina, I am hereby requesting that the Commission confirm that the location of the station's main studio complies with the main studio requirements of 47 C.F.R. Section 73.1125(a)(2), as established by the attached Main Studio Compliance Review prepared by Graham Brock, Inc., using the Longley-Rice methodology.

The Main Studio Compliance Review demonstrates that, using the Longley-Rice methodology, the WYNA facility provides the requisite 70 dBu contour coverage of a studio located at 4841 Highway 17 Bypass South, Myrtle Beach, South Carolina 29577. Qantum respectfully requests a determination from the Commission that this location may serve as the station's main studio.

If there are any questions concerning this submission, please contact the undersigned directly.

Sincerely,

John M. Pelkey

JMP:yg
DC_DOCS:718947.1

GRAHAM BROCK, INC.

BROADCAST TECHNICAL CONSULTANTS

MAIN STUDIO COMPLIANCE REVIEW
QANTUM OF MYRTLE BEACH LICENSE COMPANY, LLC
WYNA (FM) RADIO STATION
CH 285C3 - 104.9 MHz - 15.0 kW
CALABASH, NORTH CAROLINA
July, 2014

TECHNICAL EXHIBIT

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MAIN STUDIO COMPLIANCE REVIEW
QANTUM OF MYRTLE BEACH LICENSE COMPANY, LLC
WYNA (FM) RADIO STATION
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Compliance with §73.1125
Using Supplemental City Grade Analysis

The studio for WYNA, Channel 285C3, Calabash, North Carolina is located 24.2 kilometers on a bearing of 228.3° True North of the WYNA transmitter site. Using the Commission's standard method of predicting city grade coverage, as outlined in §73.313 of the Commission's rules, the predicted 70 dBu contour does not reach the main studio. In this particular case, however, we find a supplemental method of depicting city grade coverage is appropriate, as noted in §73.313(e) of the Commission's rules.

The WYNA transmitting facility is located on a tower at geographic coordinates North Latitude 33° 49' 19" and West Longitude 78° 46' 18" and operates with a maximum effective radiated power of 15.0 kilowatts with a center of radiation 107 meters above mean sea level. The studio is located at geographic coordinates North Latitude: 33° 40' 37.4" and West Longitude 78° 57' 54.6" (NAD '27) on bearings between 223° and 233° True from the WYNA transmitter site. We have analyzed the terrain in 1.0° increments (30 second FCC terrain database), including a direct bearing to the Studio at 228°.

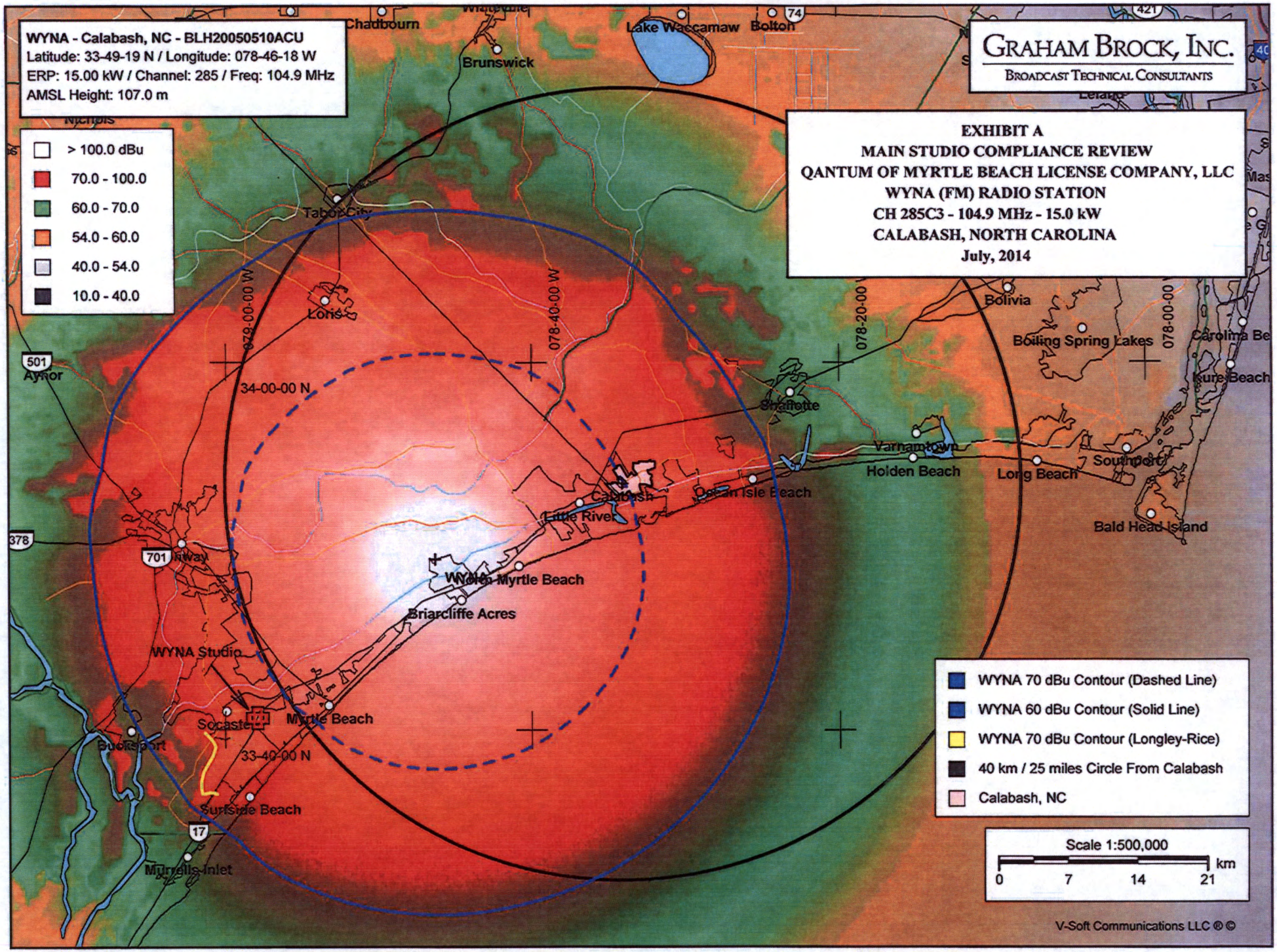
We have determined the location of the 70 dBu contour, using the Longley-Rice prediction method first occurrence, as implemented in the V-Soft program Probe-4 (Exhibit A).

This model is a more representative prediction of field strength than the FCC's standard methodology.

On the pertinent bearings toward the proposed main studio, we tabulated the distance to the city grade contour, using the FCC's method (Exhibit B) and supplemental method to demonstrate the differences in the distances to the contour. We found the supplemental depiction distances are greater (in excess of 10%) than the distances using the Commission's standard methodology (Exhibit C). Exhibit D is a terrain profile graph of the main studio radial (228°). Based on the Staff's policy, as the supplemental method exceeds the standard method by more than 10%, the supplemental showing is acceptable. Therefore, pursuant to §73.313(e) of the Commission's rules, a supplemental method of depicting the city grade coverage is warranted. It is noted that none of the reviewed radials extends beyond the 60 dBu FCC protected contour of WYNA.

Using the supplemental method calculations, we find the city grade contour in the direction of the city extends out a minimum distance of 29.00 kilometers and a maximum of 33.32 kilometers, which is well beyond the WYNA main studio, as visually demonstrated in Exhibit A.

Based on the supplemental depiction, we find the WYNA studio is adequately served by the WYNA operational facilities and is in compliance with §73.1125 of the Commission's rules.


WYNA - Calabash, NC - BLH20050510ACU
Latitude: 33-49-19 N / Longitude: 078-46-18 W
ERP: 15.00 kW / Channel: 285 / Freq: 104.9 MHz
AMSL Height: 107.0 m
> 100.0 dBu
70.0 - 100.0
60.0 - 70.0
54.0 - 60.0
40.0 - 54.0
10.0 - 40.0
GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS
EXHIBIT A
MAIN STUDIO COMPLIANCE REVIEW
QANTUM OF MYRTLE BEACH LICENSE COMPANY, LLC
WYNA (FM) RADIO STATION
CH 285C3 - 104.9 MHz - 15.0 kW
CALABASH, NORTH CAROLINA
July, 2014
Chadbourn
Brunswick
Lake Waccamaw
Bolton
Tabor City
Loris
Aynor
Conway
Nichols
Bolivia
Boiling Spring Lakes
Carolina Beach
Kure Beach
Southport
Long Beach
Holden Beach
Varnamtown
Shallotte
Calabash
Ocean Isle Beach
Little River
North Myrtle Beach
Briarcliffe Acres
WYNA Studio
Myrtle Beach
Socastee
Bucksport
Surfside Beach
Murrells Inlet
Bald Head Island
079-00-00 W
078-40-00 W
078-20-00
078-00-00
34-00-00 N
33-40-00 N
501
701
378
17
74
421
WYNA 70 dBu Contour (Dashed Line)
WYNA 60 dBu Contour (Solid Line)
WYNA 70 dBu Contour (Longley-Rice)
40 km / 25 miles Circle From Calabash
Calabash, NC
Scale 1:500,000
0 7 14 21 km
V-Soft Communications LLC ® ©

MAIN STUDIO COMPLIANCE REVIEW
QANTUM OF MYRTLE BEACH LICENSE COMPANY, LLC
WYNA (FM) RADIO STATION
CH 285C3 - 104.9 MHz - 15.0 kW
CALABASH, NORTH CAROLINA
July, 2014

EXHIBIT B

Predicted contour:

North Latitude: 33' 49' 19"
West Longitude: 78' 46' 18"

HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	70-F5	60-F5
223	6.8	100.2	15.0000	11.76	1.000	20.62	35.08
224	6.5	100.5	15.0000	11.76	1.000	20.64	35.11
225	6.8	100.2	15.0000	11.76	1.000	20.61	35.07
226	7.5	99.5	15.0000	11.76	1.000	20.55	34.97
227	8.2	98.8	15.0000	11.76	1.000	20.47	34.84
228	8.9	98.1	15.0000	11.76	1.000	20.39	34.73
229	9.5	97.5	15.0000	11.76	1.000	20.33	34.63
230	9.8	97.2	15.0000	11.76	1.000	20.29	34.57
231	10.0	97.0	15.0000	11.76	1.000	20.28	34.54
232	10.0	97.0	15.0000	11.76	1.000	20.28	34.54
233	10.0	97.0	15.0000	11.76	1.000	20.28	34.54

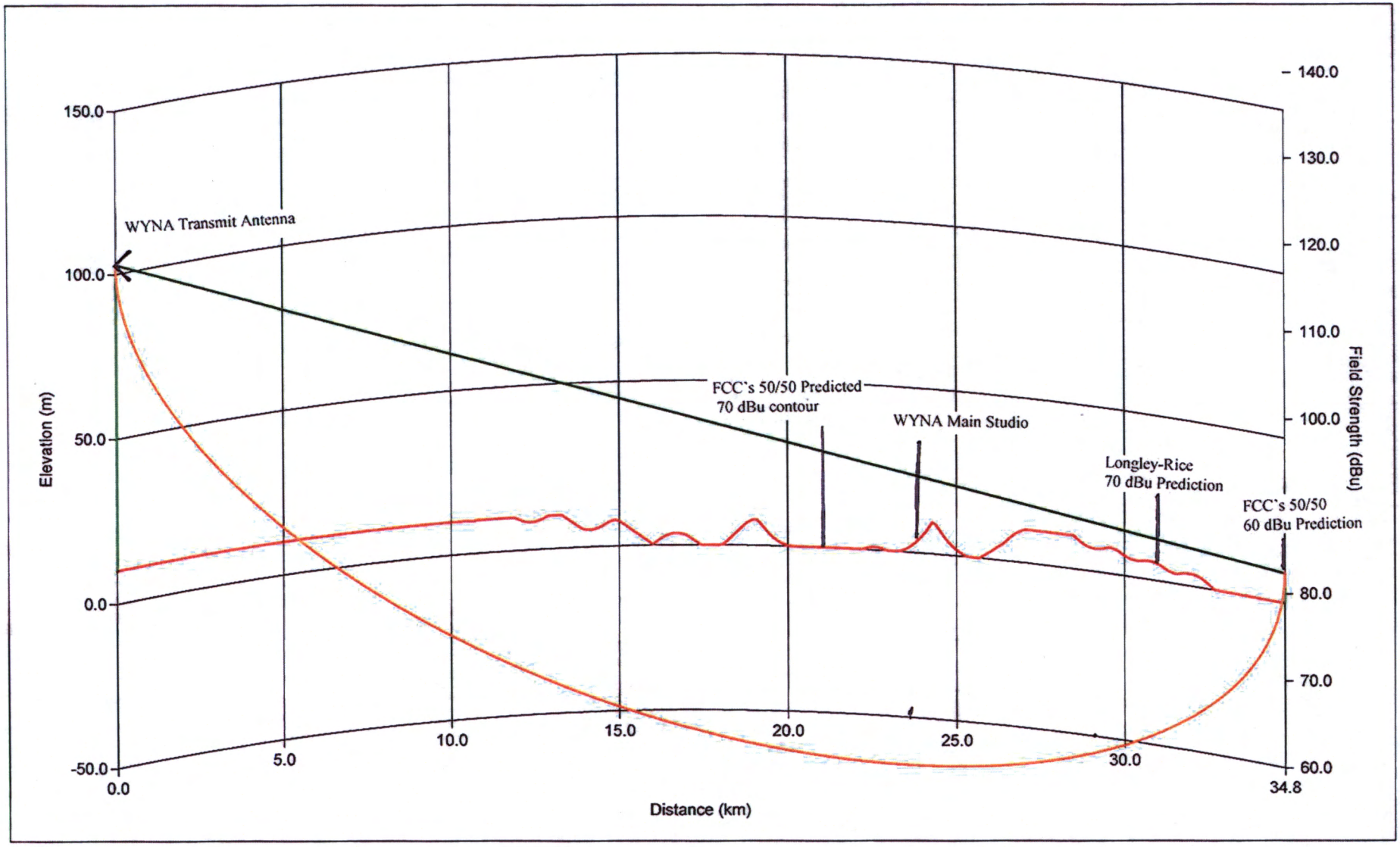
MAIN STUDIO COMPLIANCE REVIEW
QANTUM OF MYRTLE BEACH LICENSE COMPANY, LLC
WYNA (FM) RADIO STATION
CH 285C3 - 104.9 MHz - 15.0 kW
CALABASH, NORTH CAROLINA
July, 2014

EXHIBIT C

Tabulation of City Grade Contours in Arc Toward WYNA Main Studio

	Location of Contour				
Azi.	70 dBu FCC Method	70 dBu Longley-Rice	70 dBu % Difference	60 dBu FCC Method	Distance Used
223	20.52	32.30	+57.4%	34.92	32.30
224	20.57	32.68	+58.9%	34.99	32.68
225	20.61	33.32	+61.7%	35.07	33.32
226	20.55	32.85	+59.9%	34.97	32.85
227	20.49	32.18	+57.1%	34.87	32.18
# 228	20.42	30.90	+51.3%	34.77	30.90
229	20.36	29.56	+45.2%	34.67	29.56
230	20.29	29.06	+43.2%	34.57	29.06
231	20.29	29.00	+42.9%	34.56	29.00
232	20.29	29.00	+42.9%	34.56	29.00
233	20.28	29.10	+43.5%	34.55	29.10

Main Studio Radial

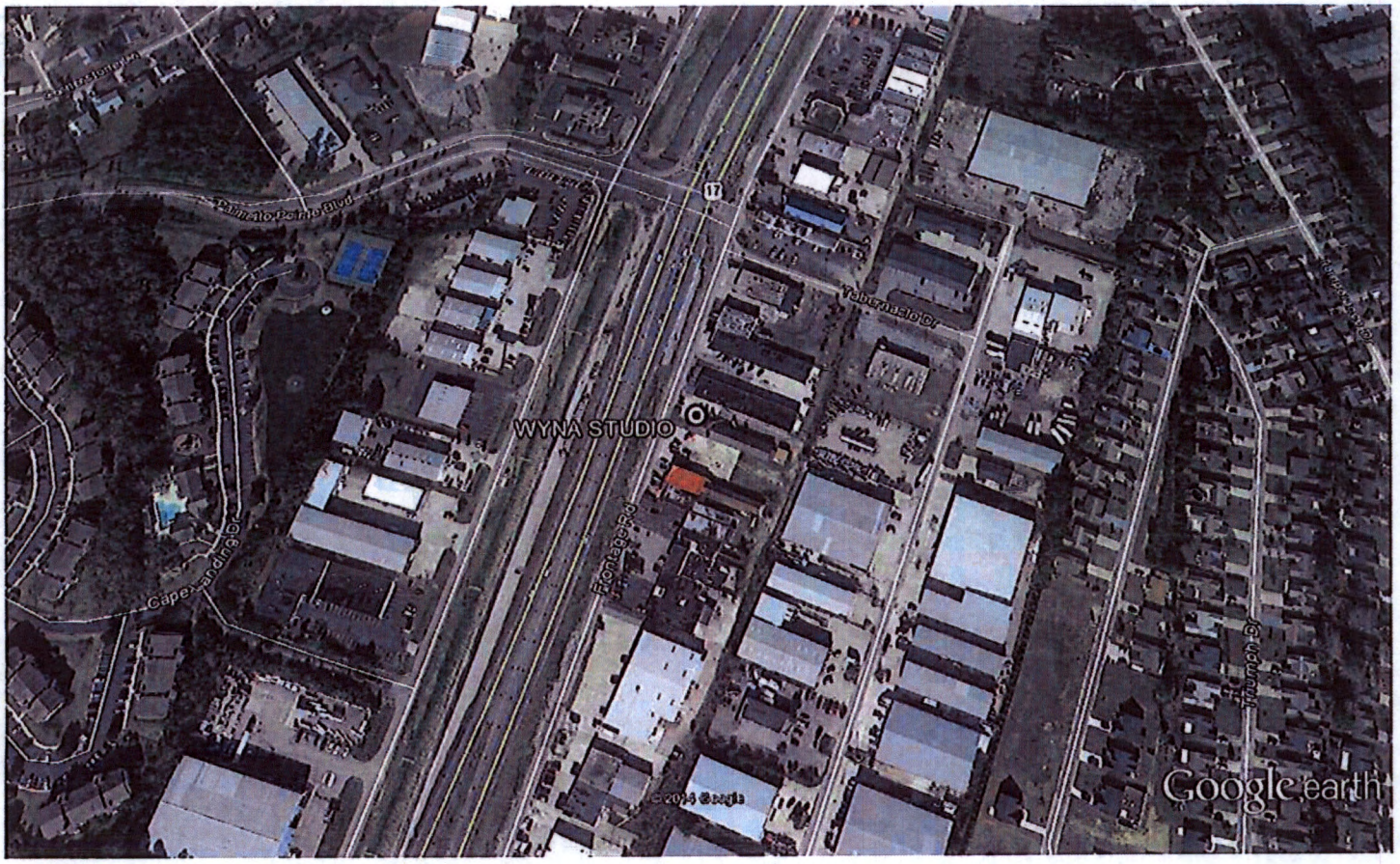


Start Latitude: 33-49-19 N
Start Longitude: 078-46-18 W

End Latitude: 33-36-42.72 N
End Longitude: 079-03-00.33 W

Distance: 34.77 km
Bearing: 228.0 deg

EXHIBIT D



Google earth feet 1000 meters 300

North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

Transformation #: 1 Region: Conus

	Latitude	Longitude
NAD 27 datum values:	33 40 37.38517	78 57 54.58361
NAD 83 datum values:	33 40 38.00000	78 57 53.70000
NAD 27 - NAD 83 shift values:	-0.61483	0.88361(secs.)
	-18.943	22.761 (meters)

Magnitude of total shift: 29.612(meters)

EXHIBIT E