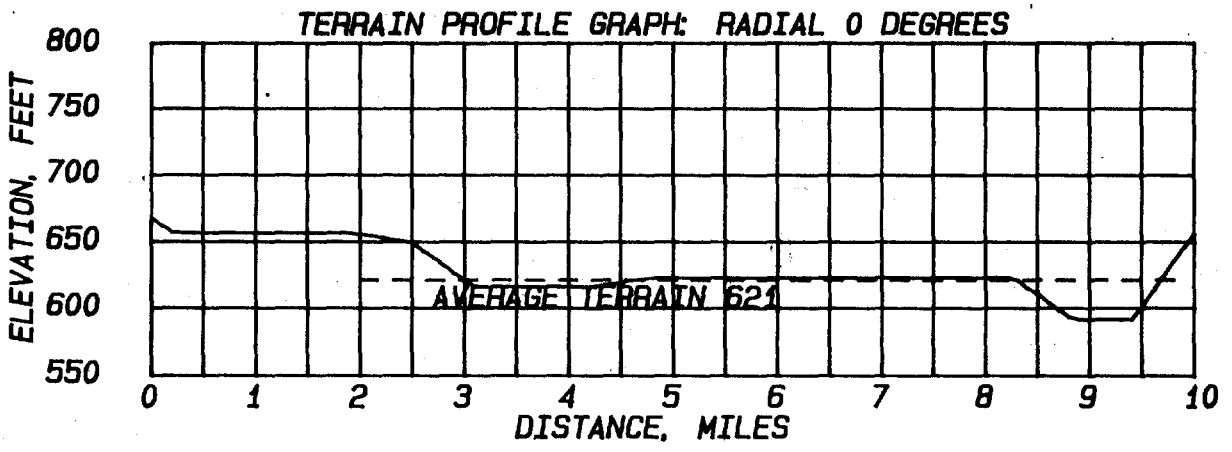
EXHIBIT E-4
AMERICAN INDIAN
BROADCAST GROUP, INC.
TERRAIN AVERAGING PROGRAM
BASED ON NGDC 30 SECOND DATABASE

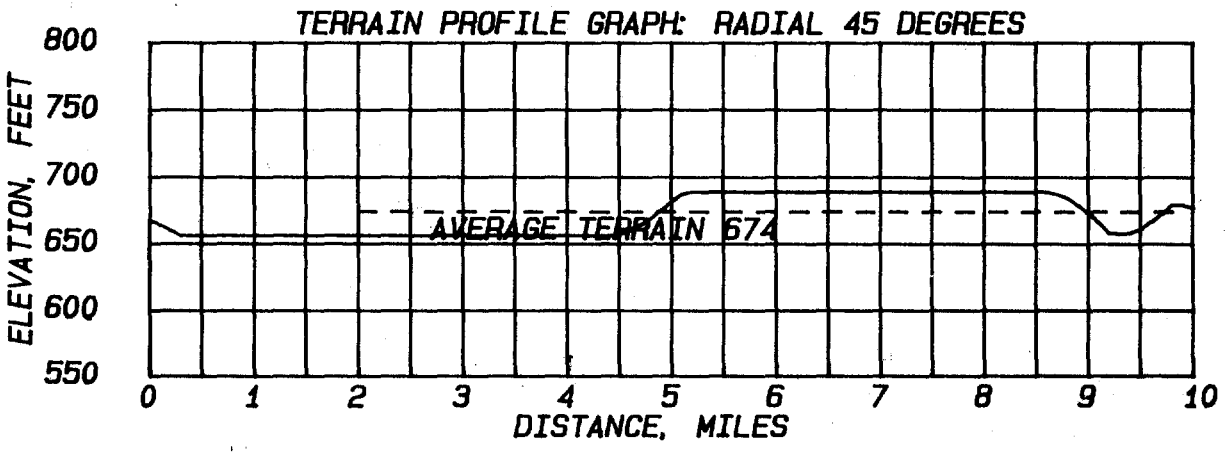
PROJECT TITLE: HARTFORD MICHIGAN

N LAT: 421819
W LNG: 861107

BEARING DEG.	2-10 MI. ELEVATION METERS	FEET
0	189	621
45	206	674
90	209	686
135	210	688
180	208	682
225	203	665
270	191	628
315	192	628
170	206	676
AVERAGE OF 8:	201	659

EXHIBIT E-4
AMERICAN INDIAN
BROADCAST GROUP, INC.





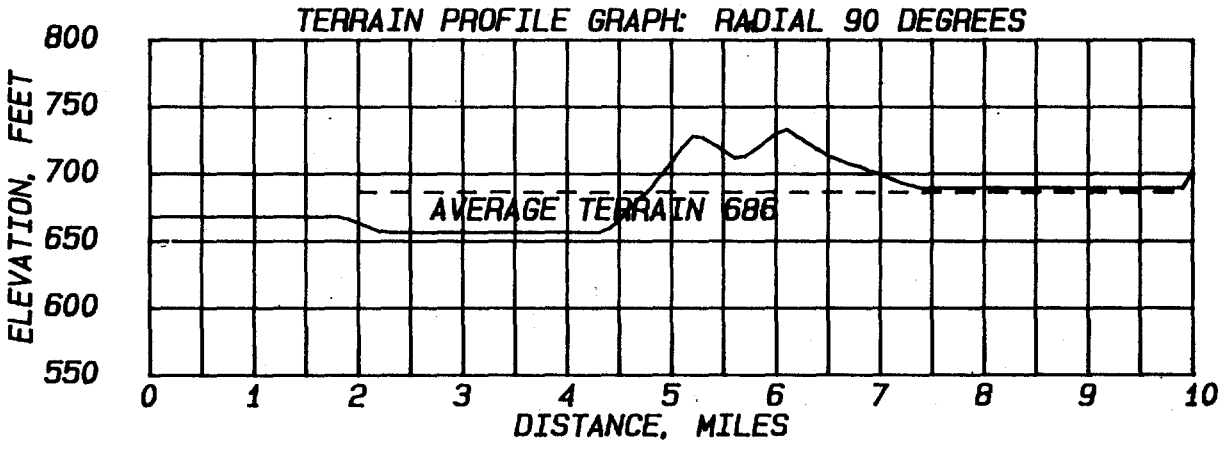


EXHIBIT E-4
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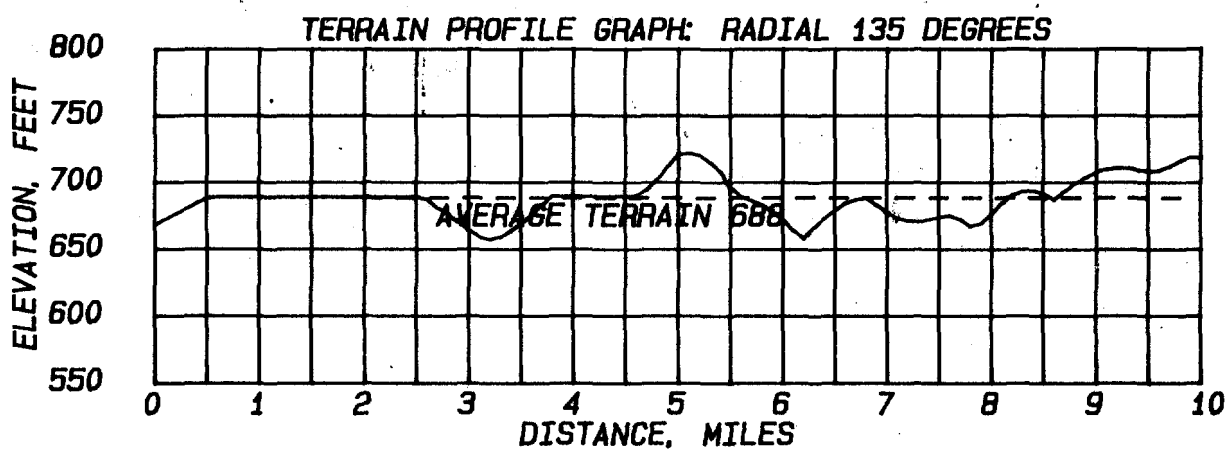
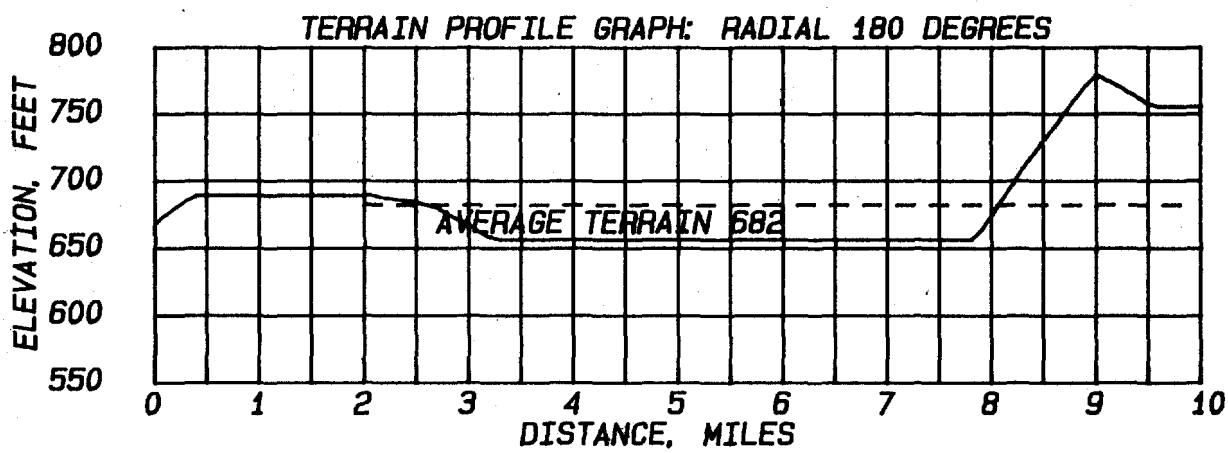
BROADCAST GROUP, INC.





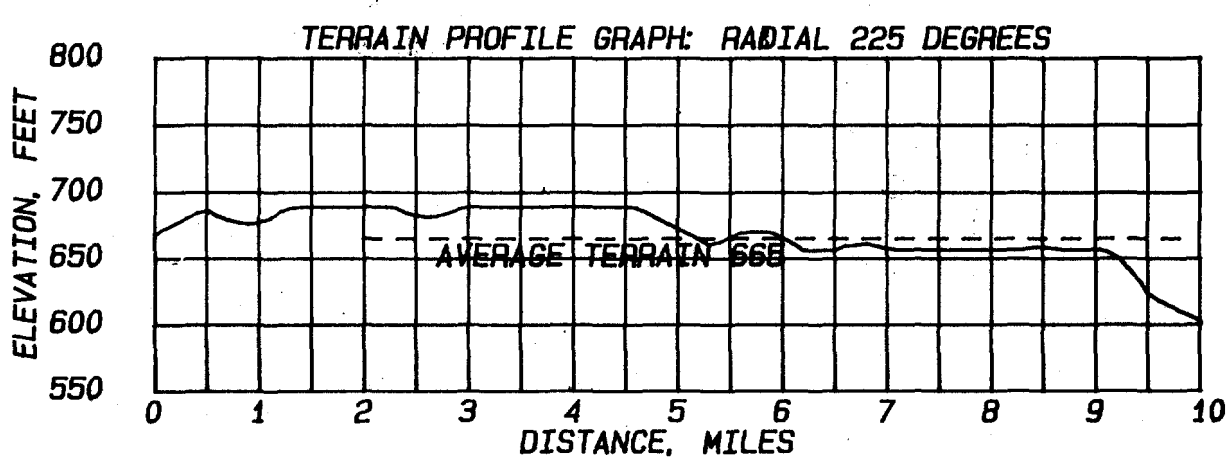


EXHIBIT E-4
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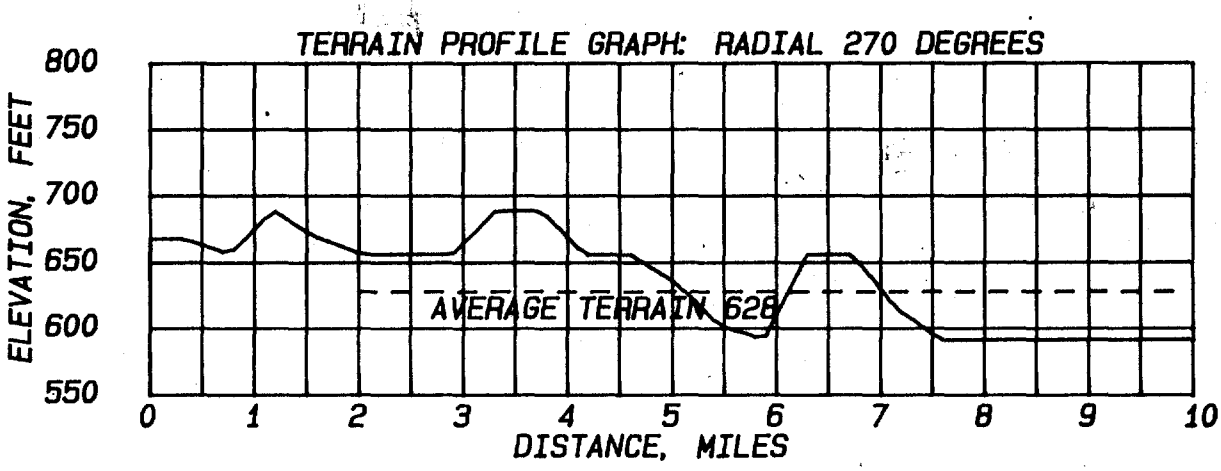
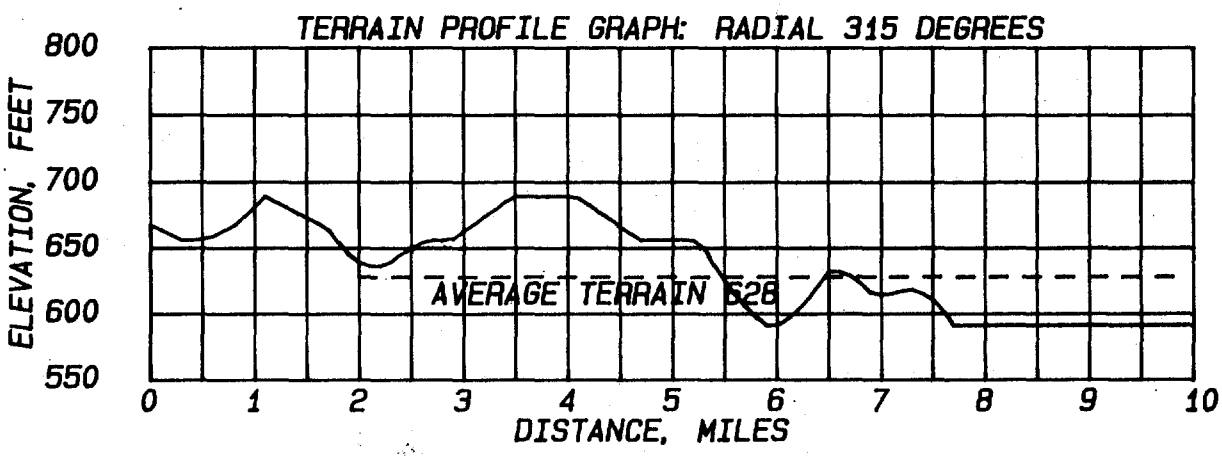
BROADCAST GROUP, INC.





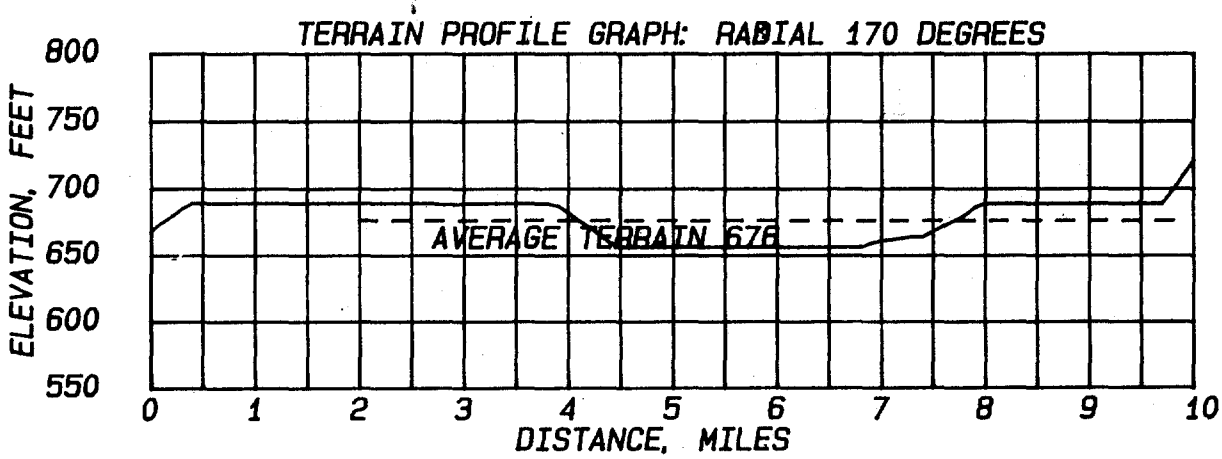


EXHIBIT E-5
AMERICAN INDIAN
BROADCAST GROUP, INC.

FM BROADCAST SEPARATION & CLEARANCE STUDY - Page 1

HARTFORD MI

Reference Coordinates: N. Lat. 42-18-19 W. Long. 86-11-07

Clearance Study for use of Channel 279 A
Listing all items within required separation plus 100 KM.
Buffer separations are not applicable and not included.

CHAN.	CLASS	CALL	CLEAR(km)	D(km)	Req'd(km)	D(mi)	AZ(deg)	CITY	STATE	N. LAT.	W. LNG.
276 A	LI	WAME	+51.03	78.03	27.00	48.49	181.78	South Bend	IN	41-36-11	86-12-51
277 B	LI	WKFR	+.80	69.80	69.00	43.37	85.14	Battle Creek	MI	42-21-19	85-20-28
278 B	LI	WFYR	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 B	CP	WFYR	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 B	AP	NEW	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 B	AP	NEW	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 B	AP	NEW	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 B	AP	NEW	+24.04	129.04	105.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
278 C	CP	WTCM	+73.44	242.44	169.00	150.65	9.12	Traverse City	MI	44-27-31	85-42-02
279 A	AS	----	+56.92	161.92	105.00	100.61	189.40	Royal Center	IN	40-52-00	86-30-00
279 A	AS	----	-101.85	3.15	105.00	1.96	163.60	Hartford	MI	42-16-41	86-10-28
279 B	LI	WEZW	+3.10	166.10	163.00	103.21	302.63	Wauwatosa	WI	43-05-48	87-54-19
280 A	LI	WWJY	+82.15	146.15	64.00	90.81	222.02	Crown Point	IN	41-19-24	87-21-22
280 A	LI	WKKE	+93.70	157.70	64.00	97.99	147.20	Fort Wayne	IN	41-06-31	85-09-56
280 A	CP	WKKE	+93.70	157.70	64.00	97.99	147.20	Fort Wayne	IN	41-06-31	85-09-56
280 A	LI	WZZP	+3.49	67.49	64.00	41.94	177.90	South Bend	IN	41-41-53	86-09-20
281 B	LI	WVGR	+.87	69.87	69.00	43.41	52.31	Grand Rapids	MI	42-41-13	85-30-35
282 B	LI	WJMK	+58.79	127.79	69.00	79.41	248.97	Chicago	IL	41-53-05	87-37-23
282 B	CP	WJMK	+60.04	129.04	69.00	80.18	248.88	Chicago	IL	41-52-44	87-38-10
225 B	LI	WNDU	+61.75	77.75	16.00	48.31	181.68	South Bend	IN	41-36-20	86-12-45

DO NOT REMOVE CARBONS

Form Approved OMB No. 2120-0001

U.S. Department of Transportation
Federal Aviation Administration

NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION

Aeronautical Study Number

1. Nature of Proposal

A. Type: [X] New Construction [ ] Alteration

B. Class: [X] Permanent [ ] Temporary (Duration _____ months)

C. Work Schedule Dates: Beginning Upon FCC grant; End 12 mo. after grant

3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration. (Number, Street, City, State and Zip Code)

(615) 242-3645
area code Telephone Number

Jack Bursak
American Indian Broadcast Group, Inc.
Country Village Shopping Center
Suite 2
Almaville Rd. and Old Nashville Highway
Smyrna, Tn. 37167

B. Name, address and telephone number of proponent's representative if different than 3 above.

2. Complete Description of Structure

A. Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure.

B. Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports.

C. Include information showing site orientation, dimensions, and construction materials of the proposed structure.

FM Channel 279A, 103.7 Mhz.
3 Kw H&V

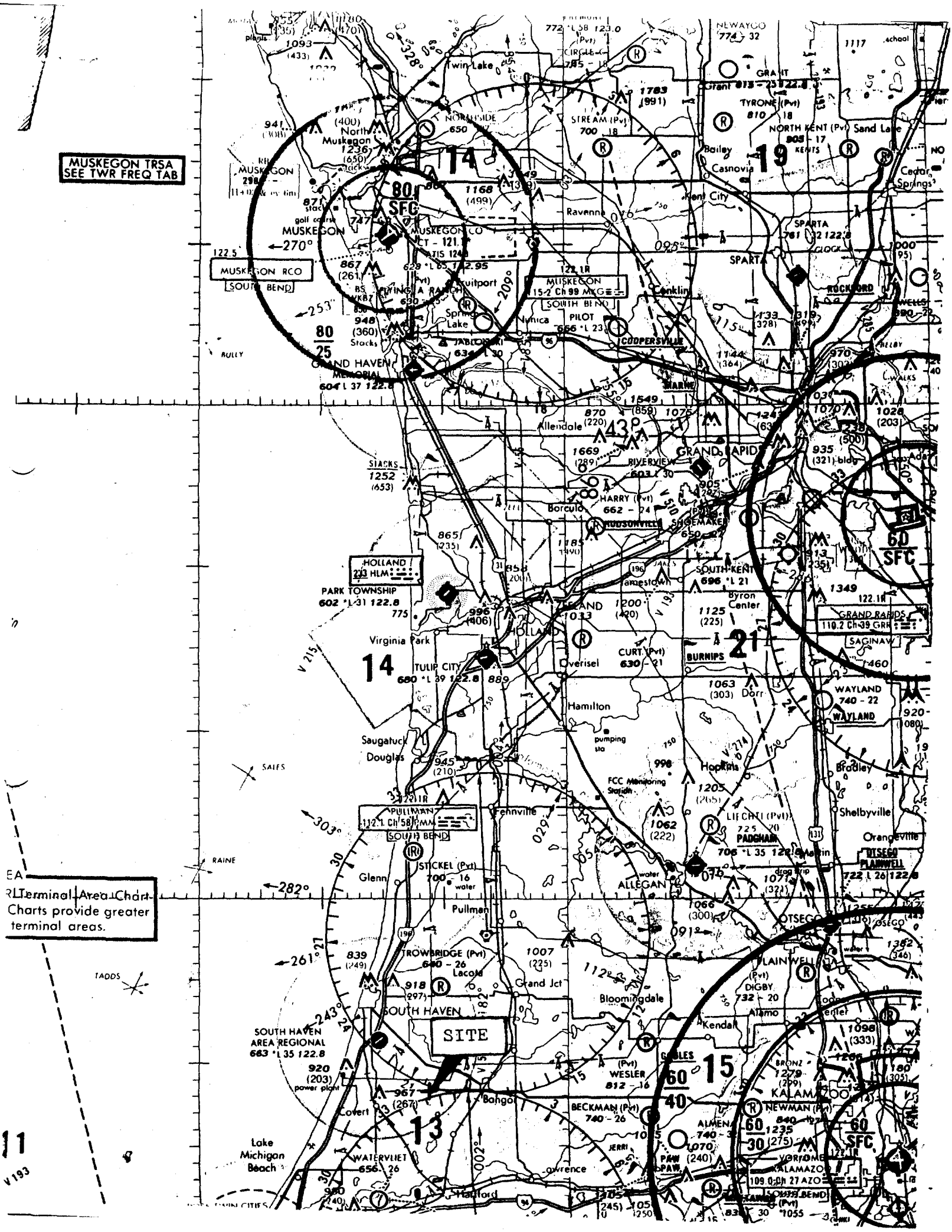
Uniform cross-sectioned
steel guyed tower

(If more space is required, continue on a separate sheet.)

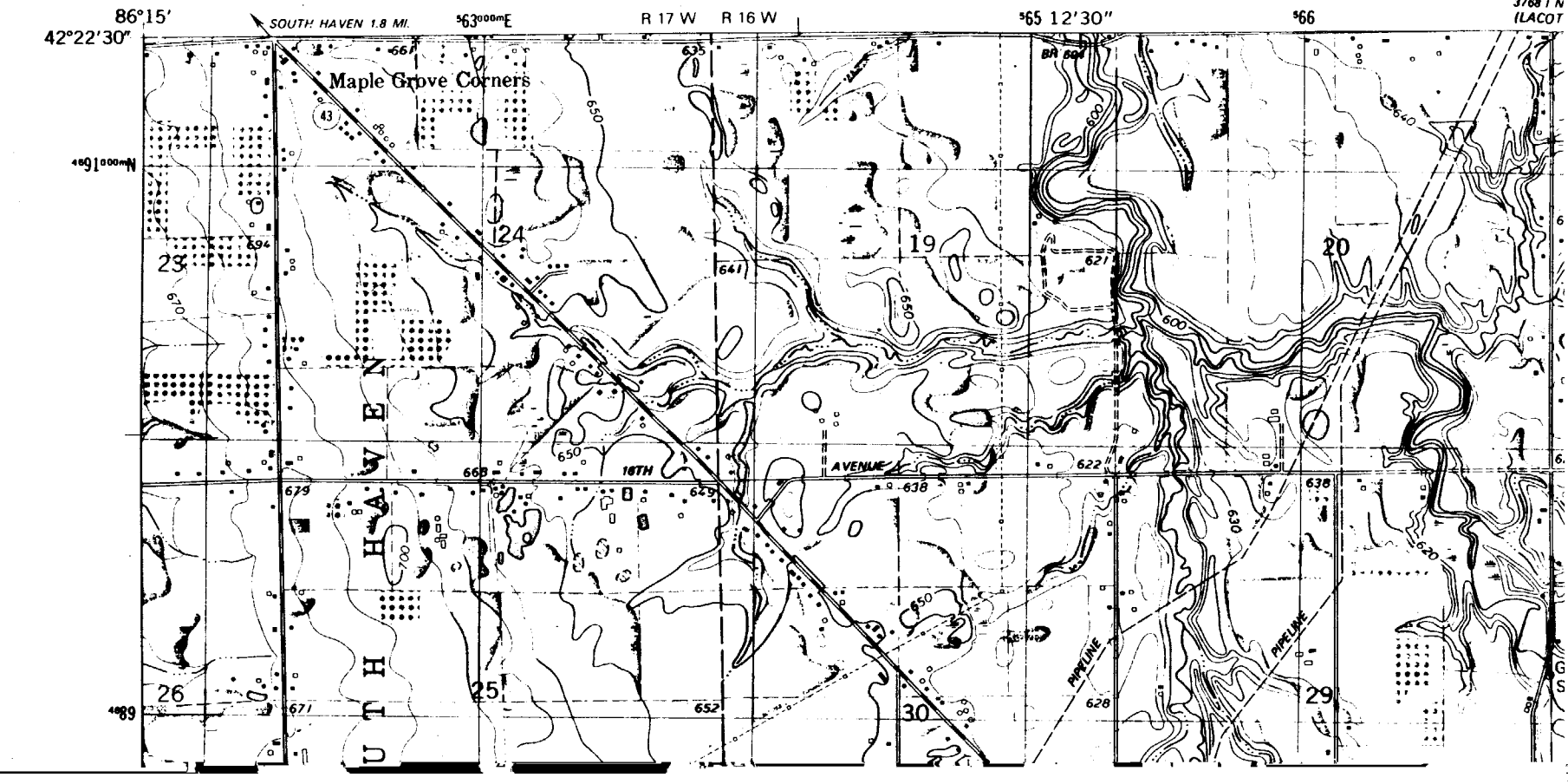
4. Location of Structure

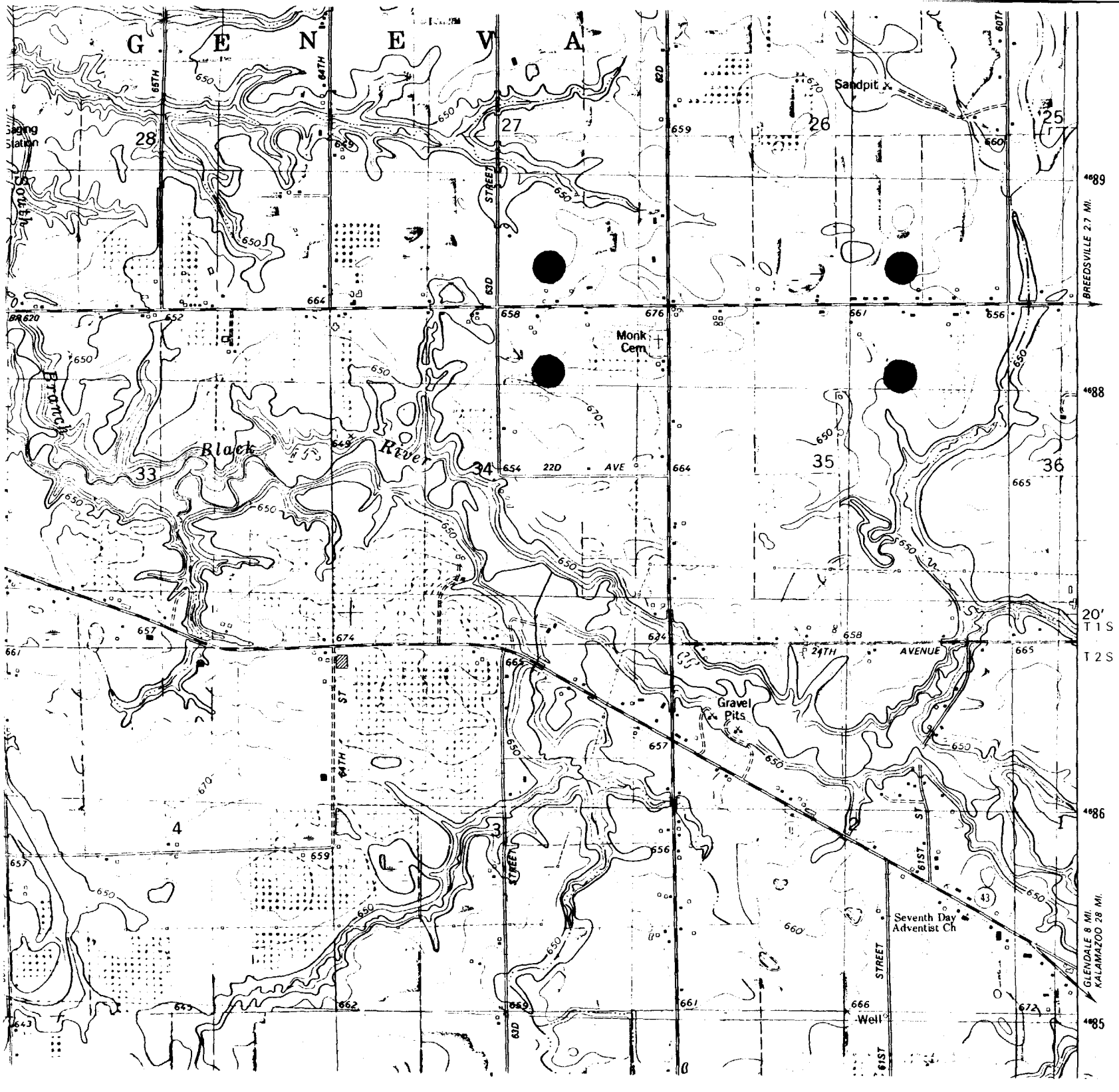
A. Coordinates (To nearest second)	B. Nearest City or Town, and State	C. Name of nearest airport, heliport, flightpark, or seaplane base	5. Height and Elevation (Complete to the nearest foot)	
	Bangor, Mi.	South Haven	A. Elevation of site above mean sea level	670
42° 18' 19" Latitude	3.5 Miles	(1) Distance from structure to nearest point of nearest runway 4.8 mi.	B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated	343
86° 11' 07" Longitude		(2) Direction from structure to airport 311° true north	C. Overall height above mean sea level (A + B)	1013

D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or


MUSKEGON TRSA
SEE TWR FREQ TAB
Terminal Area Chart
Charts provide greater
terminal areas.
SITE
MUSKEGON
North Muskegon
Twin Lake
Ravenna
Casnovia
Sand Lake
Cedar Springs
SPARTA
ROCKFORD
COOPERSVILLE
Allendale
GRAND RAPIDS
Borculo
HOLLAND
Virginia Park
TULIP CITY
Overisel
Hamilton
Saugatuck
Douglas
Fennville
Glenn
Pullman
ALLEGAN
OTSEGO
PLAINWELL
Bloomingdale
SOUTH HAVEN
SOUTH HAVEN AREA REGIONAL
Covert
Lake Michigan Beach
WATERVLIET
Bangor
Hartford
KALAMAZOO
Kendall
Alamo
Byron Center
Dorr
WAYLAND
Hopkins
Bradley
Shelbyville
Orangeville
Lake Michigan

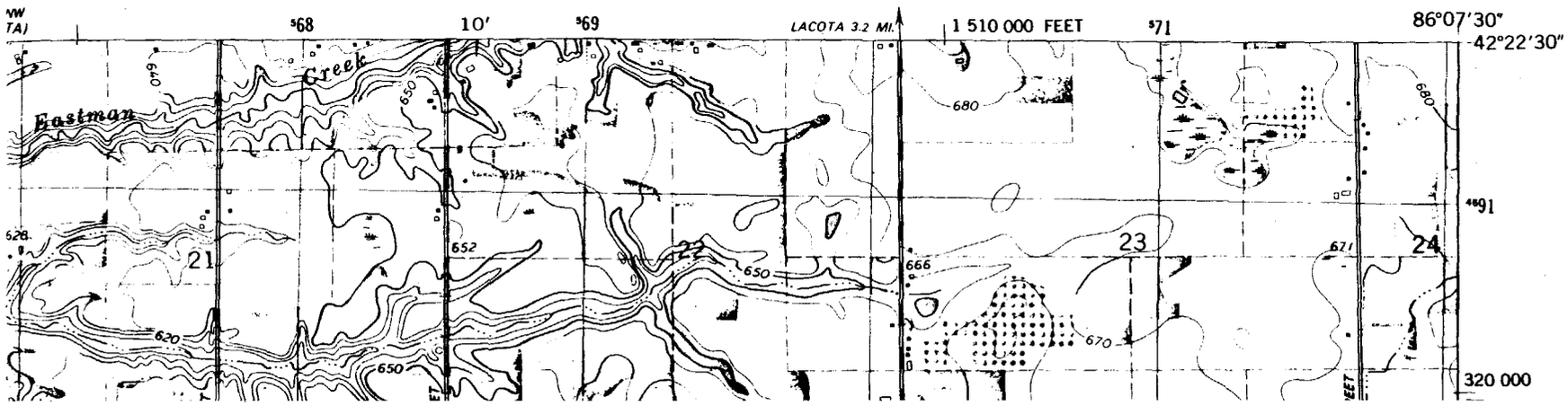
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

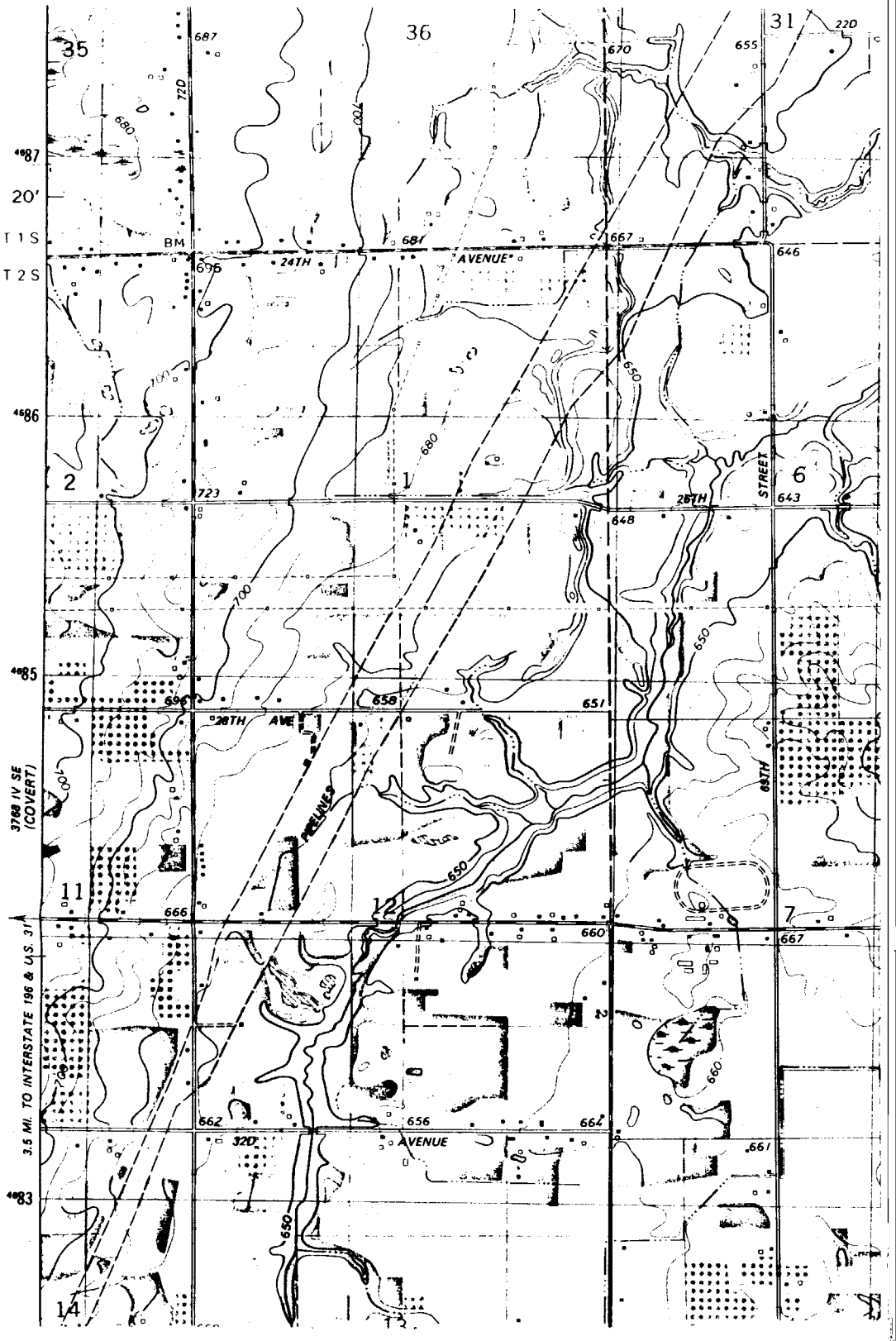


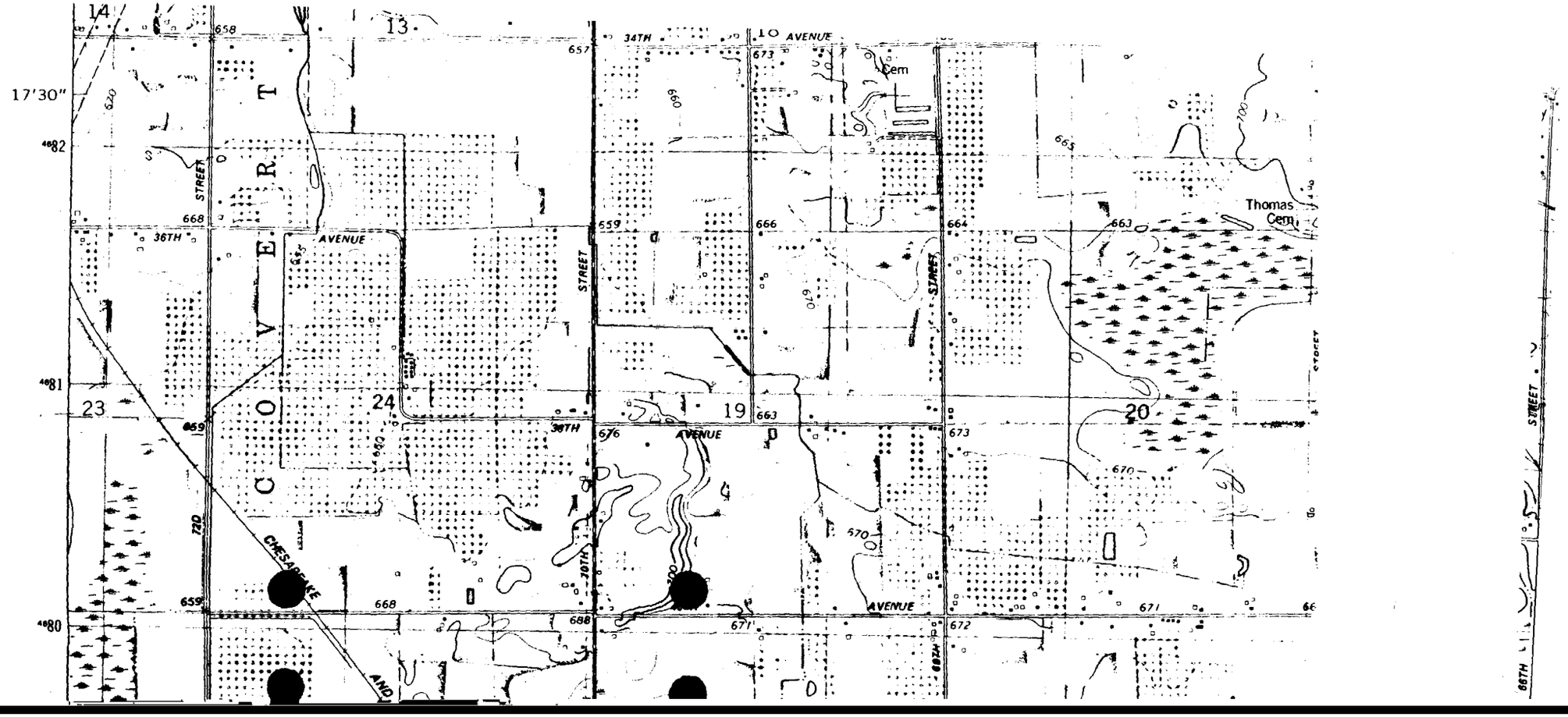

G E N E V A
Sandpit
Monk Cem
Black River
Branch
22D AVE
24TH AVENUE
Gravel Pits
Seventh Day Adventist Ch
Well
BREEDSVILLE 2.7 MI.
GLENDALE 8 MI.
KALAMAZOO 28 MI.
20'
T1S
T2S
65TH
64TH
63D
62D
61ST
STREET
ST
28
27
26
25
33
34
35
36
4
3
1
43

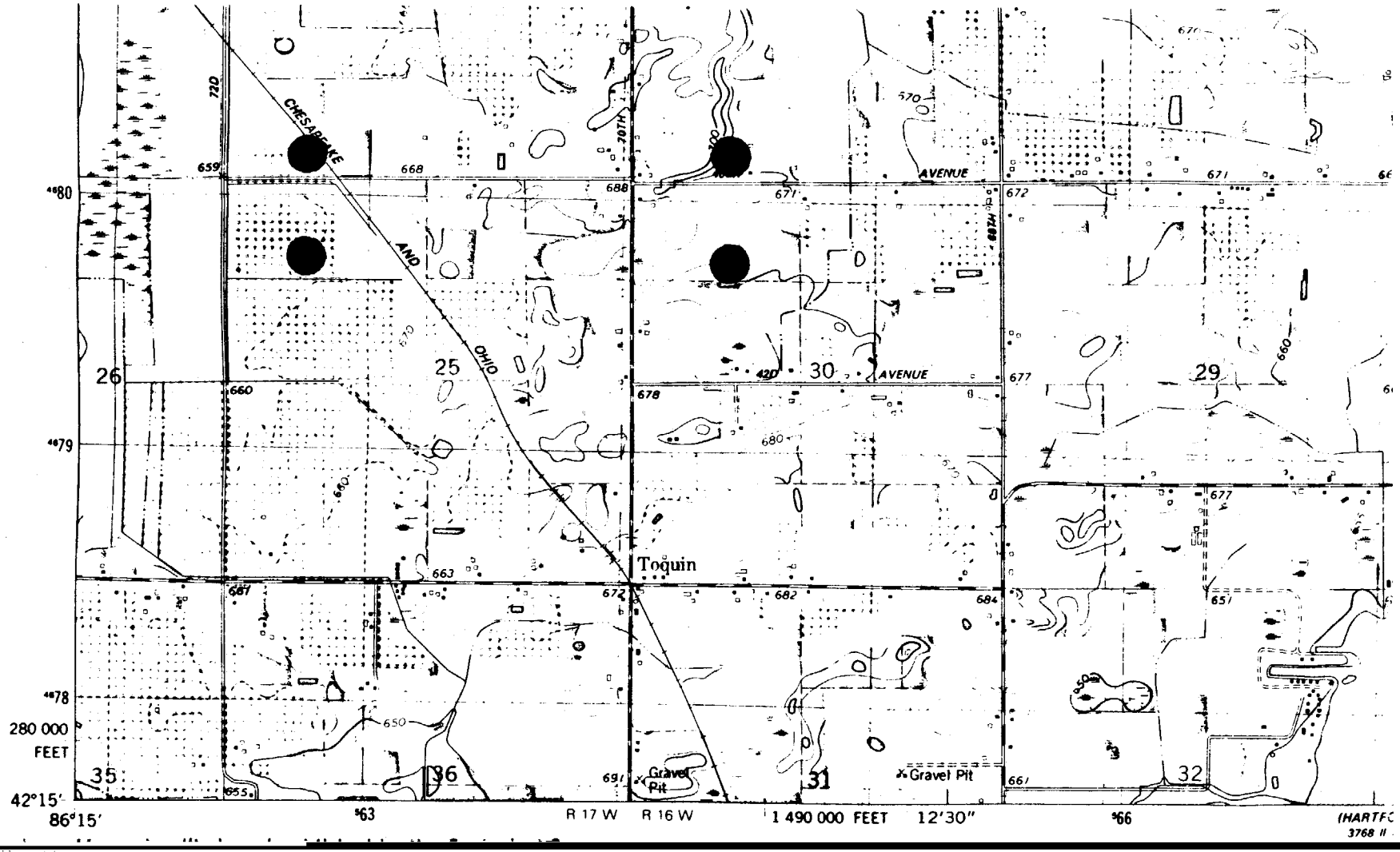
MC DONALD QUADRANGLE
MICHIGAN–VAN BUREN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 BANGOR 15' QUADRANGLE

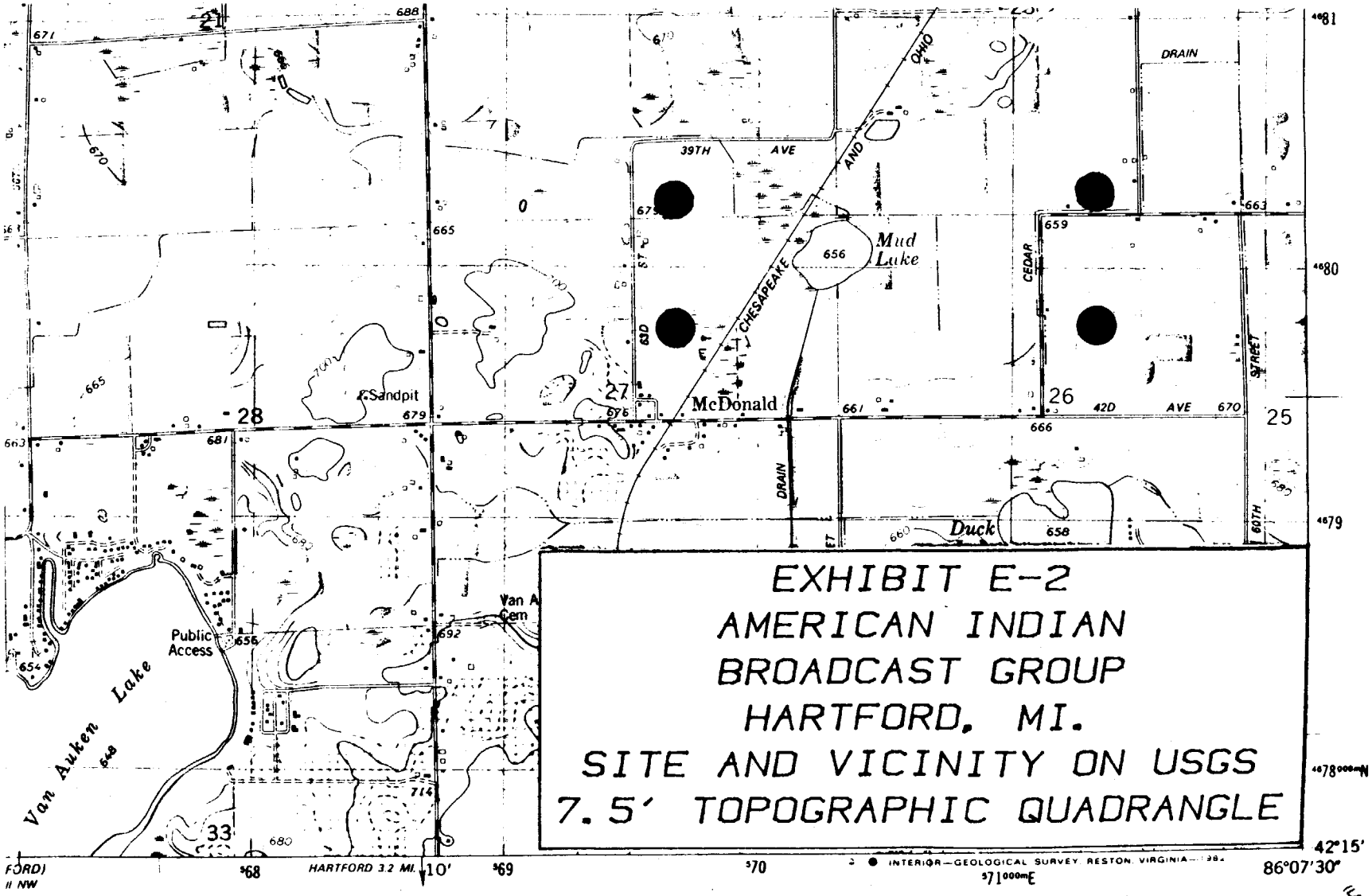
3768 I NE (PULLMAN)




35
36
31
687
720
670
655
220
680
700
4687
20'
T 1 S
T 2 S
BM
681
667
646
695
24TH
AVENUE
650
4686
2
1
6
723
28TH
STREET
643
648
4685
696
658
651
28TH
AVE
PIPELINES
63TH
3788 IV SE
(COVERT)
11
12
7
666
660
667
3.5 MI. TO INTERSTATE 196 & U.S. 31
662
656
664
320
AVENUE
661
4683
14
13


14
13
17'30"
4682
4681
4680
23
24
19
20
COVERT
STREET
36TH
AVENUE
34TH
AVENUE
STREET
STREET
STREET
38TH
AVENUE
AVENUE
CHESAPEAKE
AND
Cem
Thomas
Cem
720
700
670
668
659
657
673
666
664
663
676
671
672
688
687TH
66TH


CHESAPEAKE
AND
OHIO
AVENUE
AVENUE
Toquin
Gravel Pit
Gravel Pit
26
25
30
29
35
36
31
32
280 000
FEET
42°15′
86°15′
R 17 W
R 16 W
1 490 000 FEET
12′30″



24 000

1 MILE

4000 5000 6000 7000 FEET

1 KILOMETER

RVAL 10 FEET
ENT 5-FOOT CONTOURS
RTICAL DATUM OF 1929

NAL MAP ACCURACY STANDARDS
SURVEY, RESTON, VIRGINIA 22092
CAL SURVEY DIVISION
RESOURCES, LANSING, MICHIGAN 48909
AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

Secondary highway, hard surface

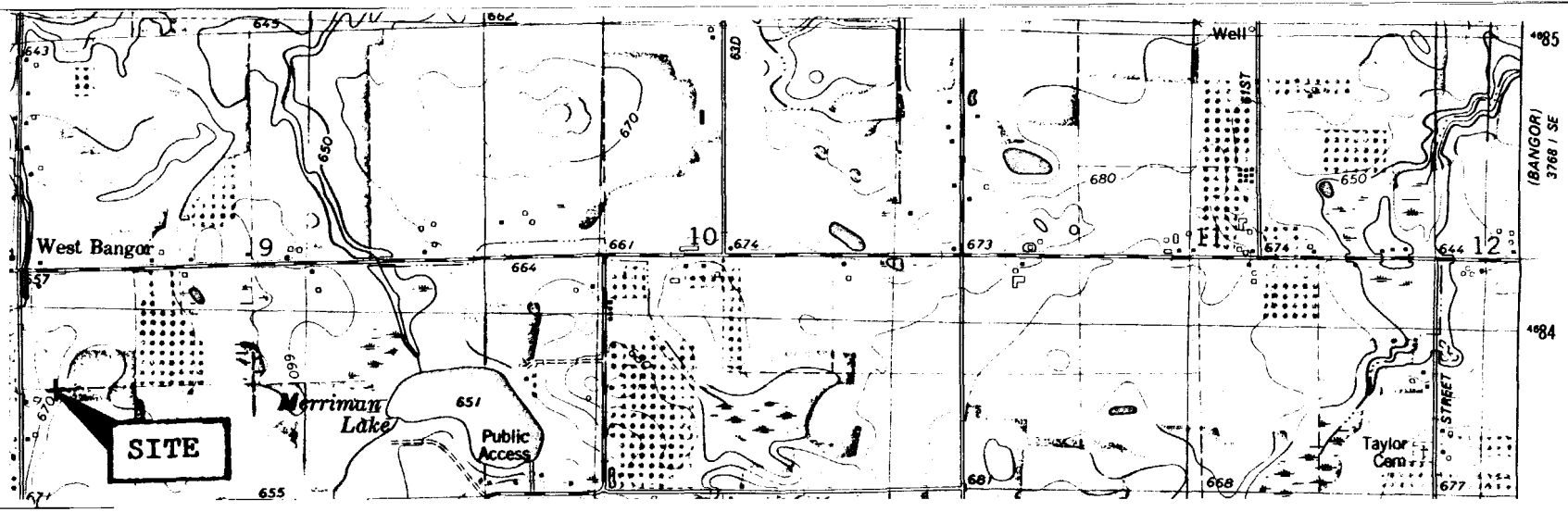
Unimproved road

Interstate Route U S Route State Route

MC DONALD, MICH.
SW/4 BANGOR 15' QUADRANGLE
N4215 - W8607.5/7.5

1981

DMA 3768 I SW-SERIES V862


West Bangor
SITE
Merriman Lake
Public Access
Taylor Cem
Well
(BANGOR)
3768 I SE
9
10
11
12
643
645
662
650
670
661
674
673
680
664
651
655
668
677
644
685
684