SKUNK CREEK

Between Arizona Canal Diversion Channel & Central Arizona Project

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

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ELEVATION REFERENCE MARK REPORT
December 11, 1990

CVL
COE & VAN LOO
PLANNING • ENGINEERING
LANDSCAPE ARCHITECTURE

SKUNK CREEK

Between the Arizona Canal Diversion Channel and the Central Arizona Project Canal

ELEVATION REFERENCE MARK REPORT

Floodplain Study
FCD 89-72

December 11, 1990

Prepared for:
Flood Control District of Maricopa County
3335 West Durango Street
Phoenix, Arizona 85009
(602) 262-1501

Prepared by:
Coe & Van Consulting Engineers, Inc.
4550 North 12th Street
Phoenix, Arizona 85014
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Phoenix, Arizona 85017
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CVL

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CVL

NOTES

Most of the reference marks in this exhibit are shown on the Floodplain Delineation Maps, however, some of the marks go beyond the mapping limits and are not shown. The number of reference marks far exceed the number required by the FEMA Survey Guidelines.

SECTION I

HORIZONTAL AND VERTICAL CONTROL TABULATION

(Reference Marks Shown on Floodplain Delineation Maps)

CVL

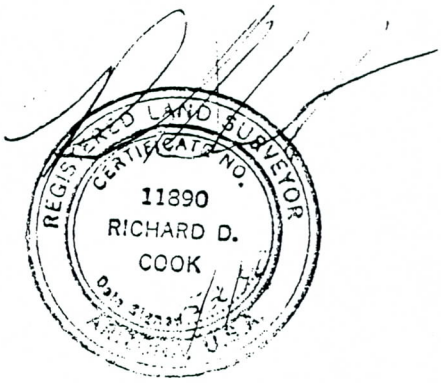
HORIZONTAL and VERTICAL CONTROL TABULATION

for the

FLOOD CONTROL DISTRICT

of

MARICOPA COUNTY



Richard D. Cook
Aerial Mapping Company, Inc.
3141 West Clarendon Avenue
Phoenix, Arizona 85017

NOTES:

Vertical elevations listed are based on the Sea Level Datum of 1929 as monumented by the United States National Geodetic Survey and the United States Geological Survey.

The basis of coordinates is the Arizona State Plane Coordinate System, Central Zone, NAD 27.

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" RE BAR	803	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1203.097
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
958 678.10	406 749.68	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

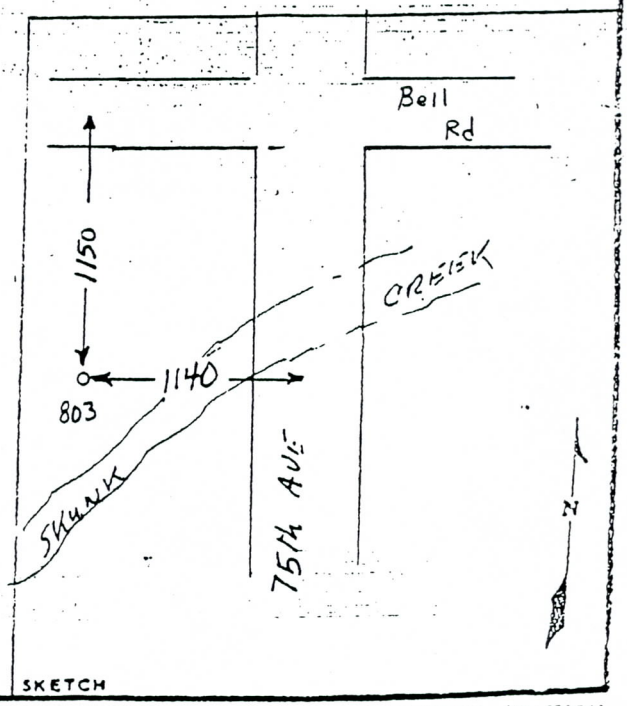
This station is located ~~at~~ near PHOENIX, MARICOPA, ARIZ
(city) (county) (state)

To reach this station from the
INTERSECTION OF Bell Rd & 75th AVE Go South 1150 THEN WEST 1140'

This station is located
IN ~~BARE FIELD~~ WEST 75th AVE

This station is a

1/2" REBAR



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	"+" Cut	801	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1213.022
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
957970.92	407892.42	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

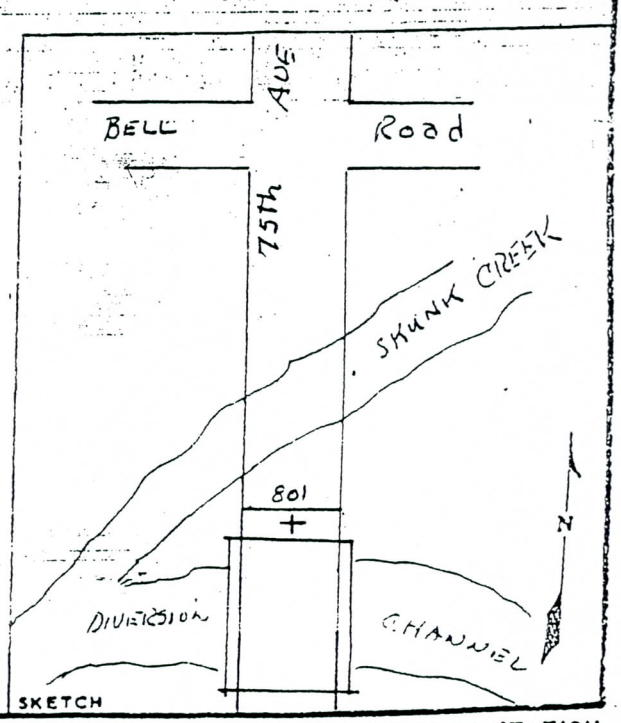
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located ~~near~~ at Phoenix (city), MARICOPA (county), ARIZ (state)

To reach this station from the
INTERSECTION OF 75th Ave & BELL Rd
GO SOUTH TO THE BRIDGE OVER
THE DIVERSION CHANNEL

This station is located
IN CONCRETE APRON NORTHEND
OF BRIDGE CUT CROSS NEAR
CEN. LINE OF BRIDGE

This station is a
CROSS CUT IN APRON



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #3

COUNTRY	TYPE OF MARK	STATION	
USA	Cut + in Bridge Deck	584	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	None	None	1213.413
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	USGS
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

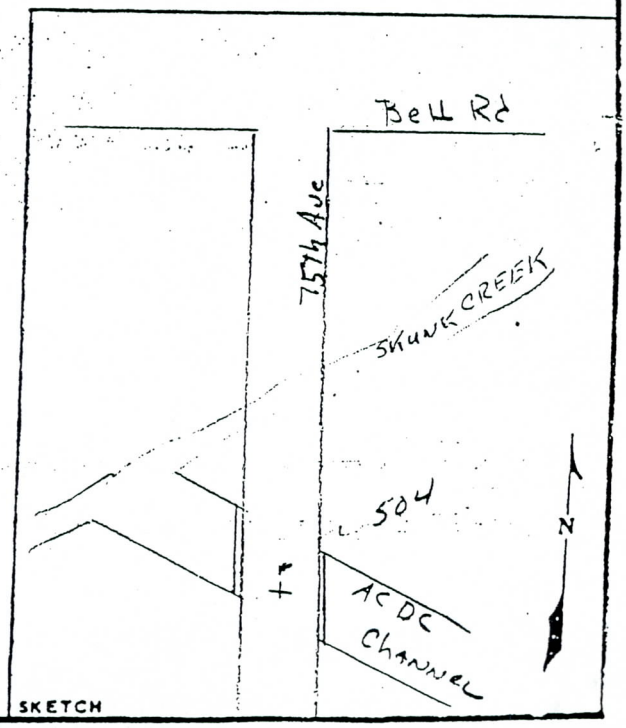
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at/near Phoenix (city), Maricopa (county), Arizona (state)

To reach this station from the intersection of 75th Ave & Bell Road go south ½ mi ±

This station is located near the south end of Bridge over AC DC Channel near N & S ℄ of Bridge

This station is a cut cross on Bridge deck.



DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

704

COUNTRY	TYPE OF MARK	STATION
USA	RE SET 3" BR. DISK IN CONC.-HH.	NW COR SEC 1 T3N R1E

LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) (M)
		MCHD.	

LATITUDE	LONGITUDE	DATUM	DATUM

(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	ESTABLISHED BY (AGENCY)

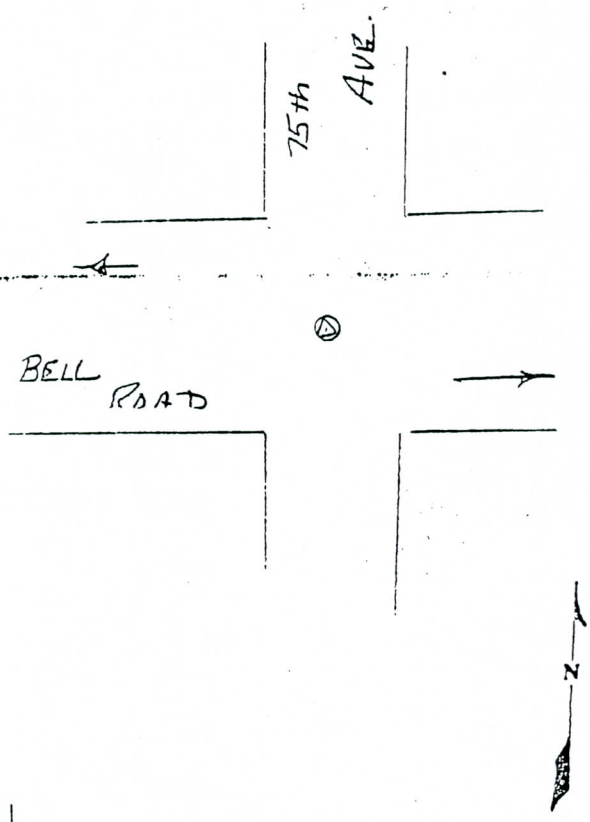
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE	ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	AZIMUTH OR DIRECTION (GEODETIC)(GRID) (MAGNETIC)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (METERS) (FEET)
	° ′ ″	° ′ ″		

NEAR PHOENIX, ARIZONA. PHOENIX DRAINAGE AREA
AT INTERSECTION OF BELL ROAD AND 75th AVE.
CENTER OF DIVIDED ROAD IN HAND HOLE A
3" BRASS DISK .50 BELOW SURFACE.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959, AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #5

COUNTRY	TYPE OF MARK	STATION	
USA	BC Flush	883	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	C.O.P.	C.O.P.	1220.857
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	~~USGS~~
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

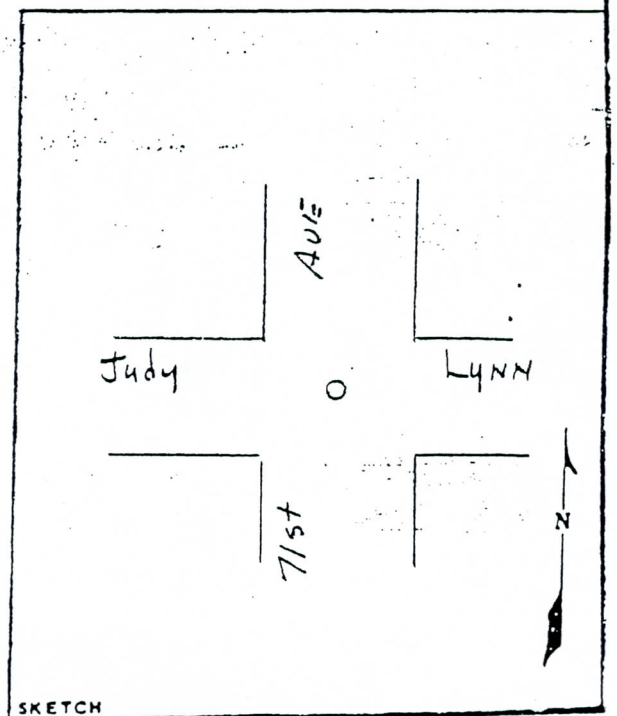
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at/near Phoenix (city), Maricopa (county), Arizona (state)

To reach this station from the

This station is located
At the intersection
of 71st Ave & Judy Lynn

This station is a
City of Phoenix Brass Cap
Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC IN H.H.	706 (N 1/4 SEC. 1)	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	MCHD	MC H D	1219.363
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
959 833.35	410 451.64	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

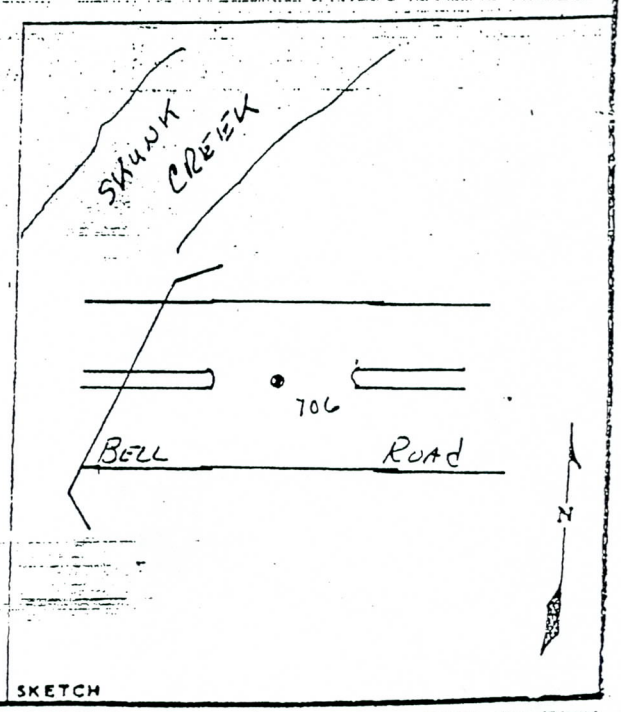
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) PHOENIX (city), MARICOPA (county), ARIZONA (state)

To reach this station from the
INTERSECTION OF 75TH AVE
& BELL ROAD GO EAST 0.5 MI

This station is located
℄ BELL ROAD EAST of
SKUNK CREE BRIDGE

This station is a
MCHD BC IN HAND HOLE



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	ALUM CAP	417 T	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	ADOT 417 T	ADOT	1221.965
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

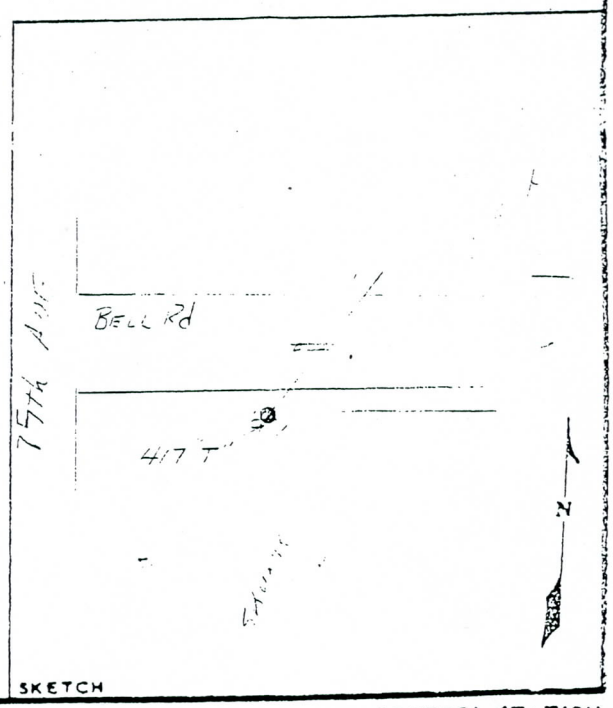
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at/near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION OF 75TH AVE E
BELL ROAD GO EAST [illegible]

This station is located AT THE
SOUTHWEST CORN OF THE
PARKING [illegible] CHURCH
[illegible] OF [illegible]
WALL

This station is a
[illegible]
[illegible] THE WALL



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #8

COUNTRY	TYPE OF MARK	STATION	
USA	BC IN HH	708	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	MCHD	MCHD	1233.854
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
962 477.63	413 093.97	AZ TM	~~USGS~~
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

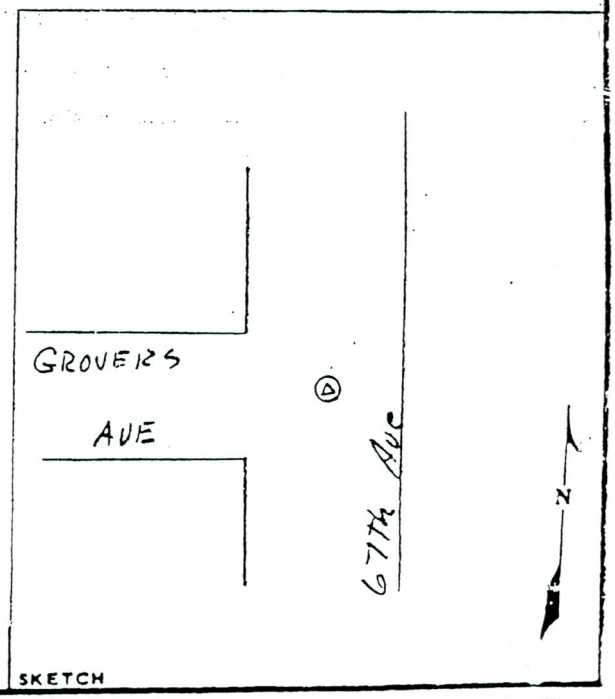
This station is located at / near PHOENIX (city), MARICOPA (county), ARIZONA (state)

To reach this station from the

This station is located
At the intersection of
67th AVE & GROVERS AVE

This station is a

BC IN HAND HOLE



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinnier	509	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	None	None	1238.927
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

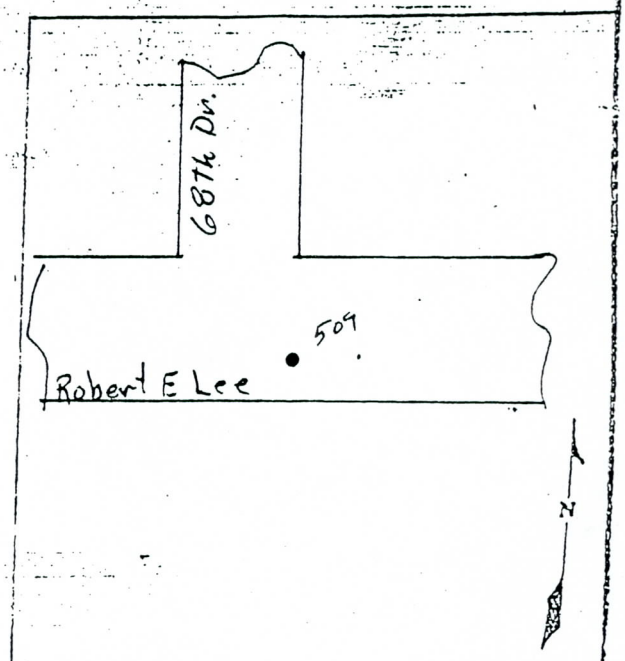
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at/near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
Intersection of Bell Road &
67th Ave Go North 3/4 mi.
To Robert E Lee Left to 68th Dr

This station is located
25' East of intersection in
Center of East bound Lane.
10' North of South Edge of Pavinc

This station is a
PK & Shinnier



SKETCH

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COUNTRY	TYPE OF MARK	STATION	
USA	BC	548	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	COP	COP	1247.318
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

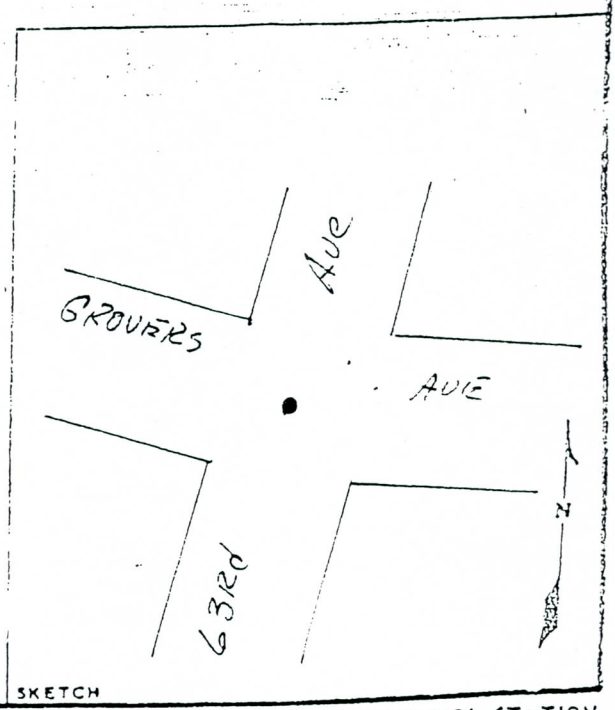
This station is located at ~~near~~ Phoenix (city), Maricopa (county), Ariz. (state)

To reach this station from the
INTERSECTION of GROVERS AVE
& 59th AVE GO West 0.5 MI
To 63rd Ave

This station is located
IN THE INTERSECTION
of GROVERS & 63rd Ave

This station is a

BC flush



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	B.C.	SK 101	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 101	NONE	1266.329
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

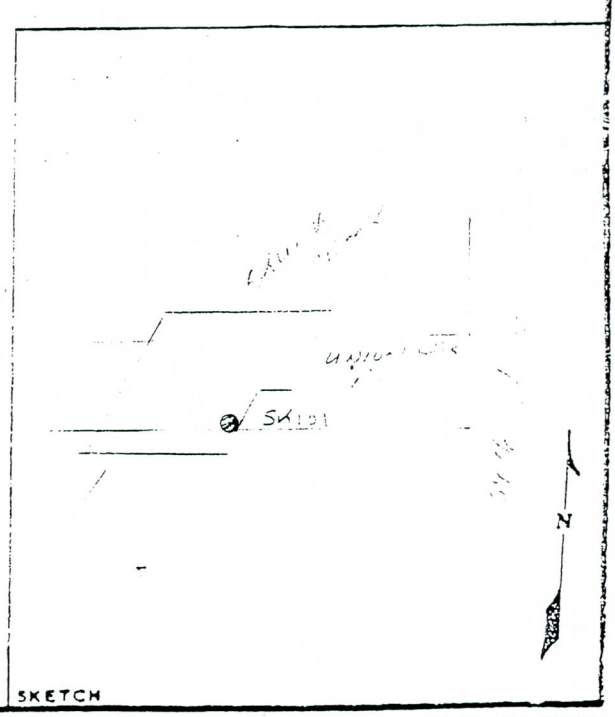
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at/near PHOENIX (city), MARICOPA (county), AZ (state)

To reach this station from the
INTERSECTION OF 59TH AVE & UNION HILLS DR GO NORTH [illegible]

This station is located
IN THE APRON AT THE SOUTHEAST CORNER OF THE [illegible]

This station is a
BC set in concrete



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
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COUNTRY	TYPE OF MARK	STATION	
USA	BC	711 NE 531 T4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	MCHD	MCHD	1267.026
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
965668.31	418170.51	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

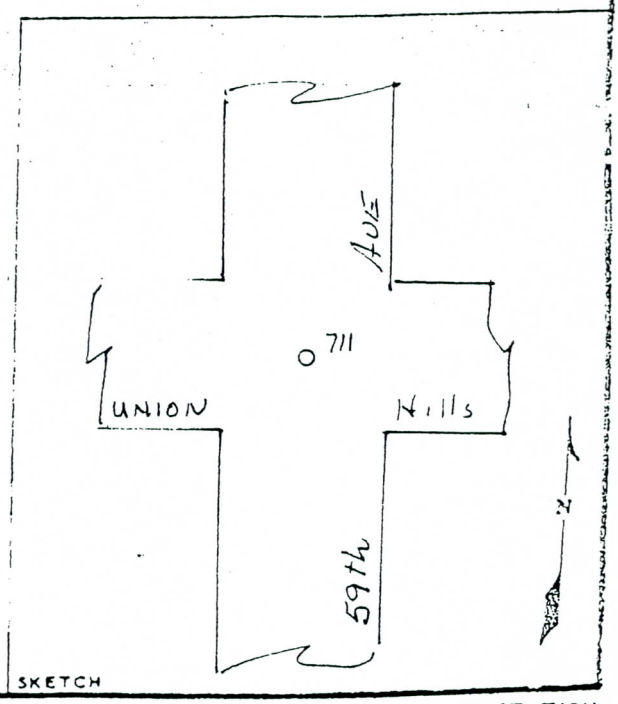
This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

~~To reach this~~ station ~~from the~~
IS THE INTERSECTION POINT
of 59th AVE & Union Hills

This station is located
At UNION HILLS &
59th AVE

This station is

B.C. IN H.H.



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC	SK 102	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 102	NONE	[illegible]
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~near~~ at PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the
INTERSECTION OF [illegible]
59th AVE & NORTH 500' ±

This station is located
IN THE APRON AT NE COR
OF THE BRIDGE OVER
SALT RIVER

This station is a
[illegible]

SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	R/R Spike	813	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1269.757
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
967497.80	418127.28	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

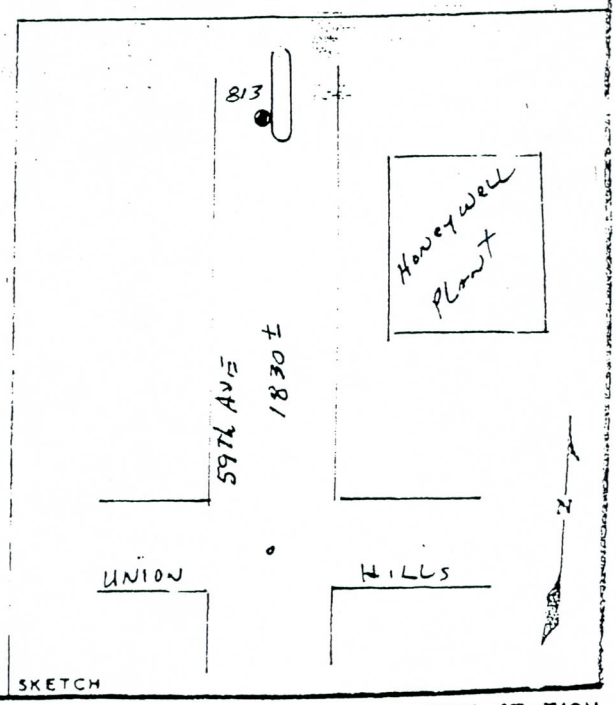
This station is located ~~at~~ near PHOENIX (city), MARICOPA (county), ARIZONA (state)

To reach this station from the
~~intersection of 59th Ave~~
& UNION HILLS GO NORTH
1830 ±

This station is located
West side of median in Left
Turn Lane to Honeywell
Plant.

This station is a

R/R Spike



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	B.C.	SK 100	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 100	NONE	1295.830
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
967 020.46001	423 478.69804	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

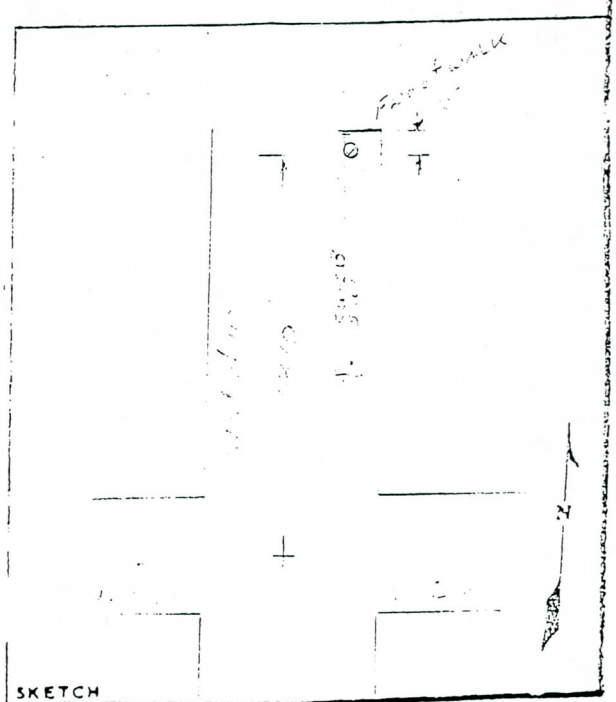
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at/near Phoenix (city), Maricopa (county), Ariz. (state)

To reach this station from the intersection of 51st Ave & Thomas Rd go North 1310' ±

This station is located on the East side between curb & sidewalk 3.0' in concrete

This station is a 3.0' Set Mark



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	B.C.	SK 103	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 103	NONE	1201.007
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

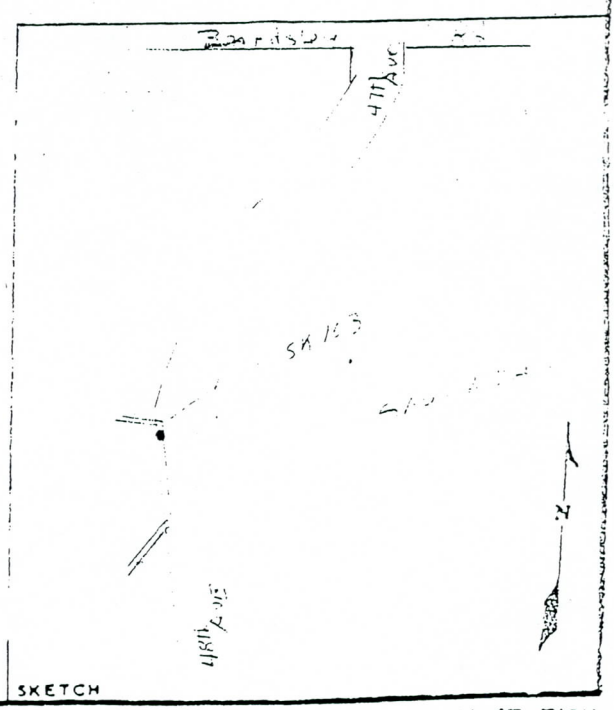
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz. (state)

To reach this station from the
INTERSECTION OF 47TH AVE & Bardsley
RDA Go South until 47th Ave becomes
48TH AVE then ½ SKUNK CREEK.

This station is located
IN THE NORTH END OF WALL
at the bottom of SKUNK CREEK
west side of 48TH AVE.

This station is a
BC set in concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC	SK 104	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 104	NONE	1847.302
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

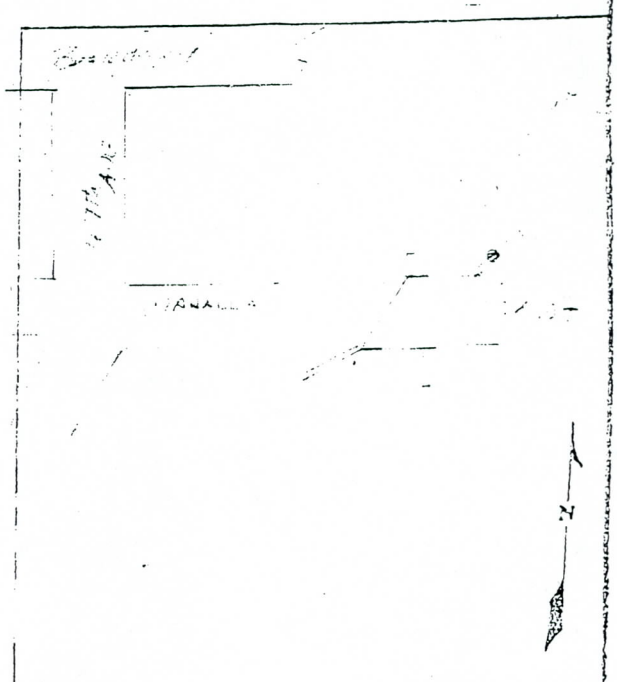
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), AZ (state)

To reach this station from the
INTERSECTION OF Baseline & 47th AVE GO South 400' ± To WAHALLA THEN EAST to SKUNK CREEK Bridge

This station is located
IN THE NE WING WALL

This station is a
BC Set in Concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	C.W.R.	SK 105	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 105	NONE	1316.527
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

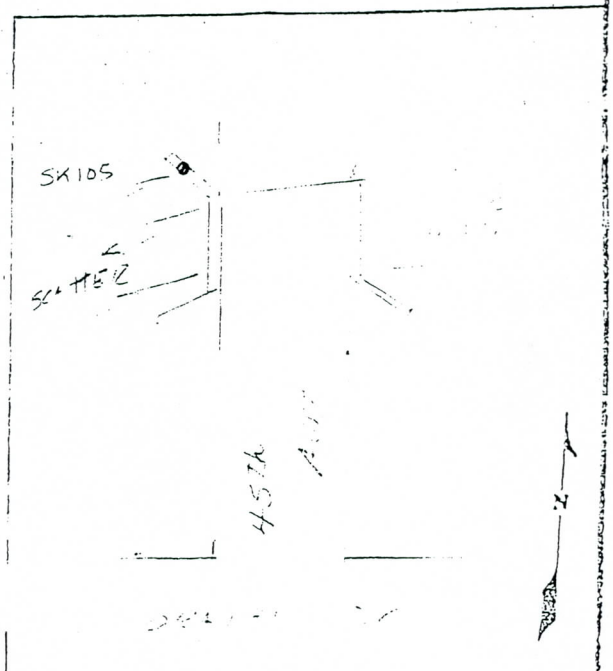
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at near _____, _____, _____
(city) (county) (state)

To reach this station from the
WESTERN SECTION OF Roosevelt Lake 43rd
AVE GO South NORTH TO ORANGE DR
[illegible] to 45th AVE, North
TO SKUNK Creek

This station is located
IN THE NORTH WEST
WING WALL OF Bridge over
Southern PACIFIC.

This station is a
[illegible] Set in Concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	5/8" Re Bar	720 N 1/4 Sec 28 T4N R2E	

LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1315.653

LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929

(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
971 002.13	425 972.60	AZ TM	

(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE	ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

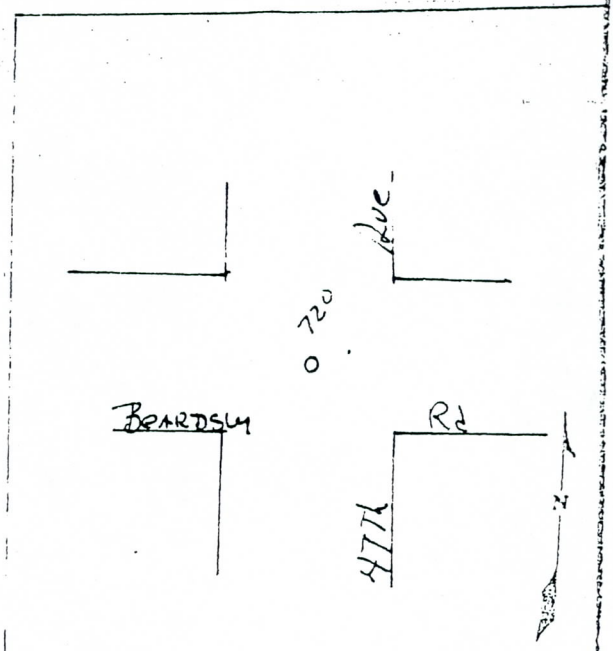
This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

This station is located at
INTERSECTION of 47th Ave
& Beardsley Rd.

This station is a

5/8" Re BAR IN Pot Hole
0.5' Below



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Re Bar	721 NE 28 T 4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1322.204
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT) 971 025.56	(EASTING) (FT) 428 611.25	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

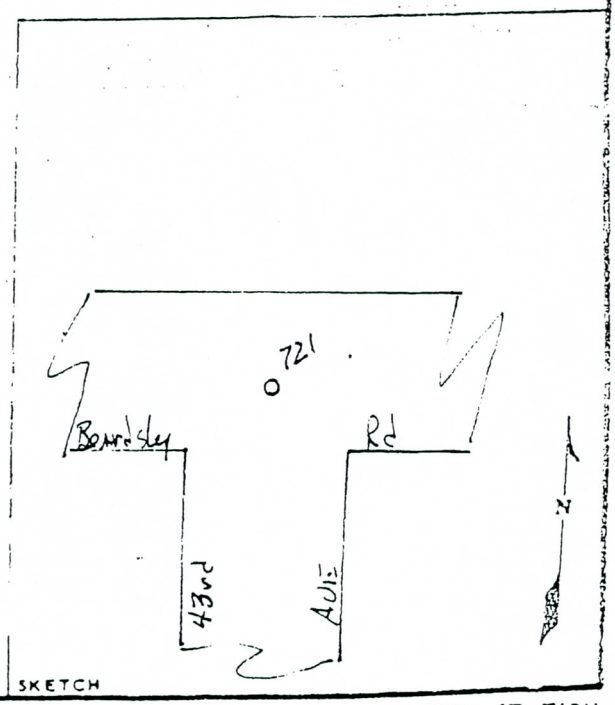
This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

This station is located At
intersection of 43 Rd Ave
& Beardsley Rd.

This station is a

1/2" Re Bar in Pot Hole



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinner	522	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1333.739
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

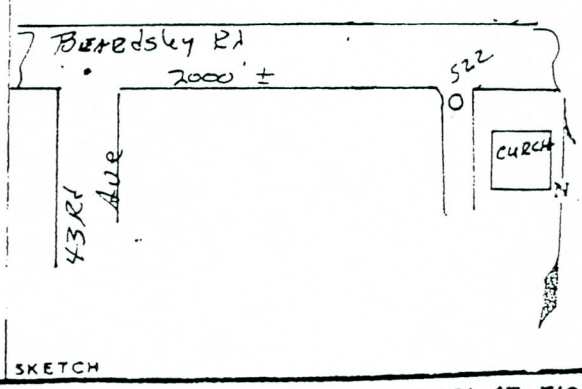
This station is located ~~near~~ at Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of 43rd Ave & Beardsley Rd Go East 2000'

This station is located Near the ℄ of west entrance to church South side of Beardsley Rd.

This station is a

PK & Shinner



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC HH	723 N 1/4 27 T4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—		1335.559
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

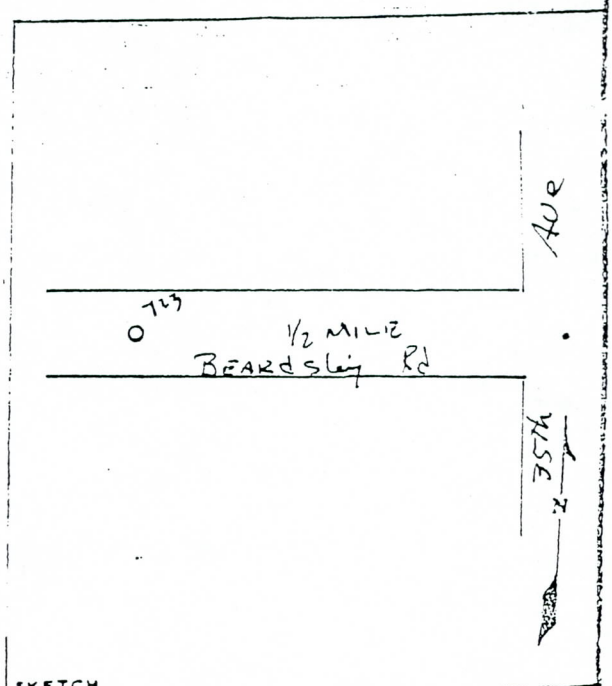
This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of 35th Ave & Beardsley Road Go West 1/2 mi

This station is located ℄ Beardsley Road at projected 39th Ave

This station is

BC HH.



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" REBAR	827	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1334.700
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT) 972072.55	(EASTING) (FT) 429901.70	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

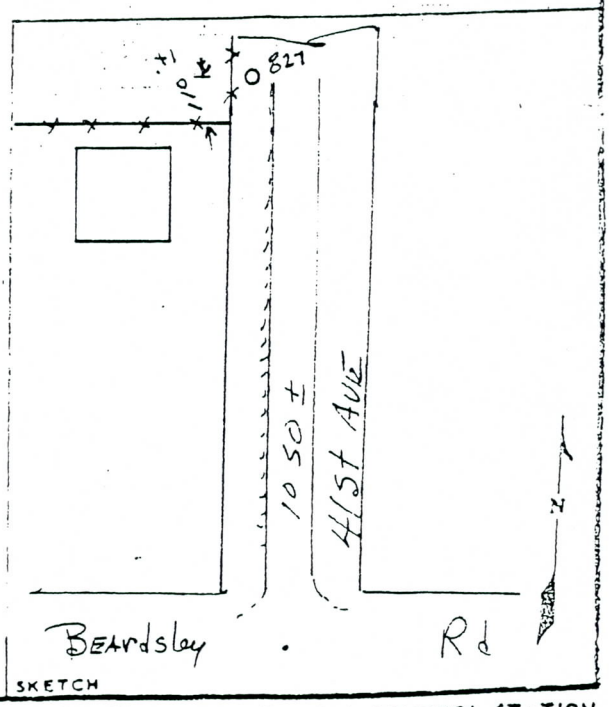
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located (at/near) PHOENIX (city), MARICOPA (county), ARIZONA (state)

To reach this station from the INTERSECTION OF 41ST AVE & BEARDSLEY ROAD, GO NORTH 1050 ± This station is located IN THE dirt 12' west OF BERM west side 41 AVE

This station is a

1/2" REBAR



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	PK & SHINNER	024	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1340.594
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

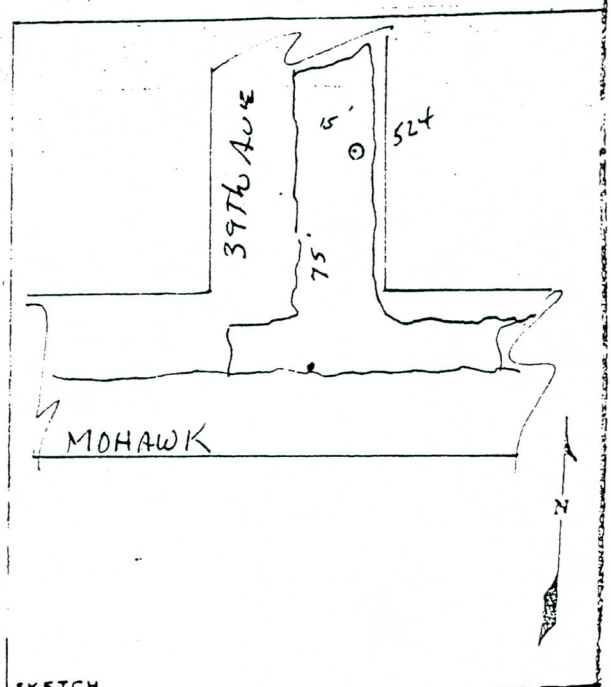
This station is located ~~at~~ near PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the

This station is located 75 NORTH AND 15 East of ~~℄~~ OF 39th AVE & MOHAWK

This station is a

PK & SHINNER



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION
USA	CWR	SK 107

LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1342.[illegible]

LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929

(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	

(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE	ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

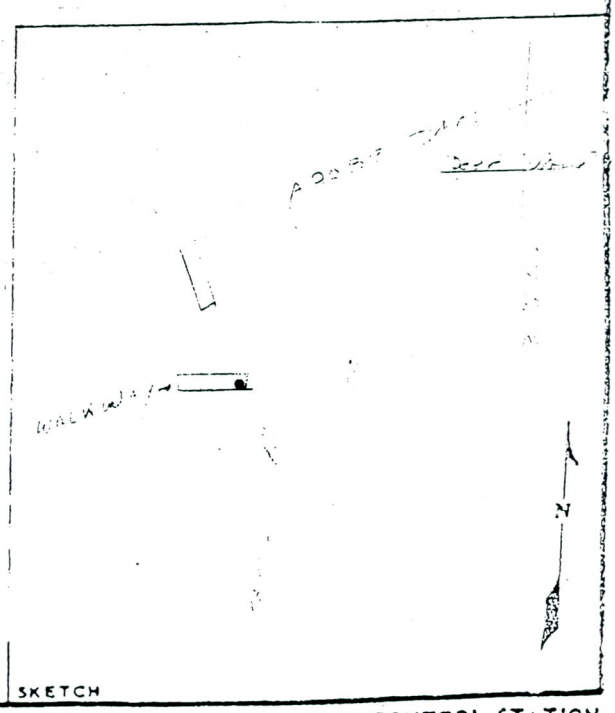
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTER SECTION OF Dam Valley Rd
& 35th Ave Go west to toe of
ADOBE DAM, WEST ALONG TOE to
out flow Box OF ADOBE DAM

This station is located
APROX 200' South of the south
TOE OF ADOBE DAM in the
South East COR OF WALK WAY
ACROSS Channel

This station is a
CWR set in Concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #33

COUNTRY	TYPE OF MARK	STATION	
USA	BRASS WASHIER	825	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	USCIE	1403.363
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
973 986.83	428 084.57	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

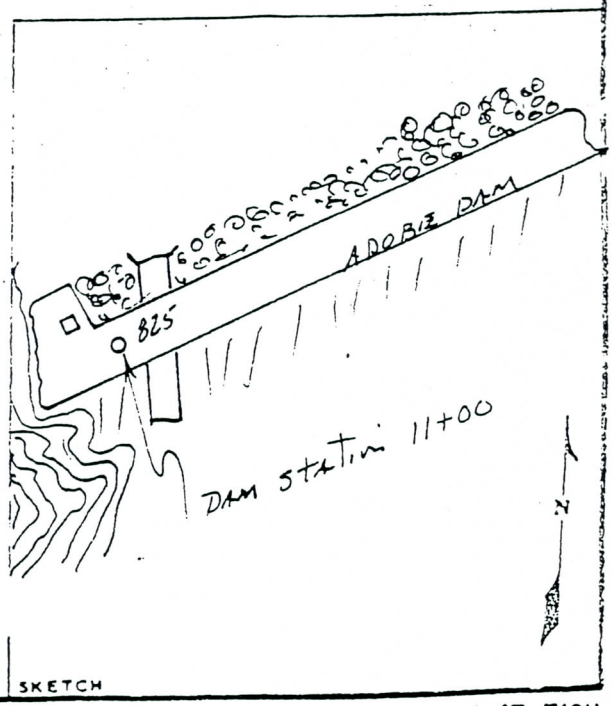
TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) PHOENIX (city); MARICOPA (county), ARIZ (state)

To reach this station from the
intersection of 35th Ave & Deer Valley Road go North Aprox 4/10 mile to crest of Adobe Dam Then West along dam 6900'±
This station is located on top of Adobe Dam at station (Dam Sta) 11+00

This station is a
Brass washier with square bolt stuck in Black Top atop Dam.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #34

COUNTRY	TYPE OF MARK	STATION	
USA	60 Penny Nail & Brass Washer	826	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	USCIE	1404.041
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
974659.23	429077.51	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

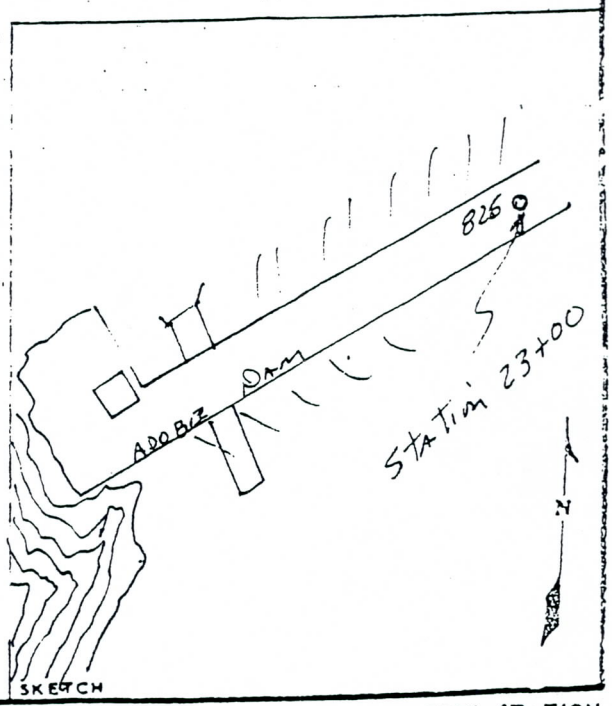
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of 35th Ave & Deer Valley Rd Go North aprox 4½ mile to crest of Adobe Dam Then west along top of Dam 5800' ±

This station is located at station 23+00 (Dam Sta)

This station is a 60 Penny nail thru Brass washer.



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #30

COUNTRY	TYPE OF MARK	STATION	
USA	B.C.	718 E1/4 28 T 4N R 2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	COP	COP.	1318.334
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
968 378.32	428 618.05	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

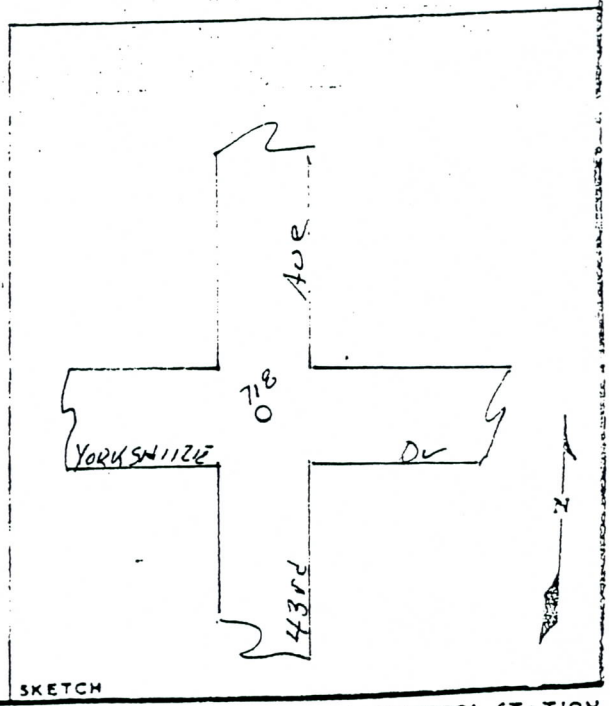
This station is located ~~near~~ at Phoenix (city); Maricopa (county), Ariz (state)

To reach this station from the

This station is located At the intersection of 43rd Ave & Yorkshire Dr.

This station is a

B.C Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #36

COUNTRY	TYPE OF MARK	STATION	
USA	B.C	719 CEN 27 T4NR2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	COP	COP	1329.205
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
968 398.62	431 267.20	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

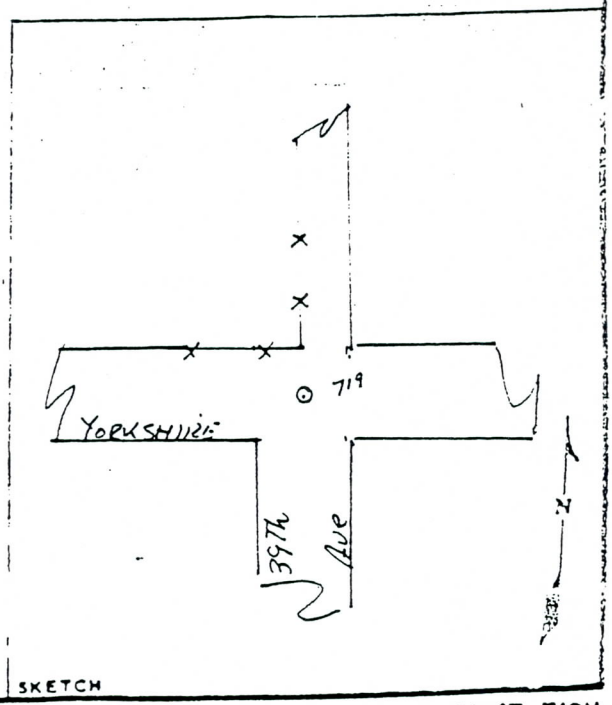
This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

This station is located IS
THE intersection point of
39th Ave & YORKSHIRE

This station is a

B.C Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #37

COUNTRY	TYPE OF MARK	STATION	
USA	PK & SHINNER	829	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1343.568
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
971 022.46	432 578.49	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

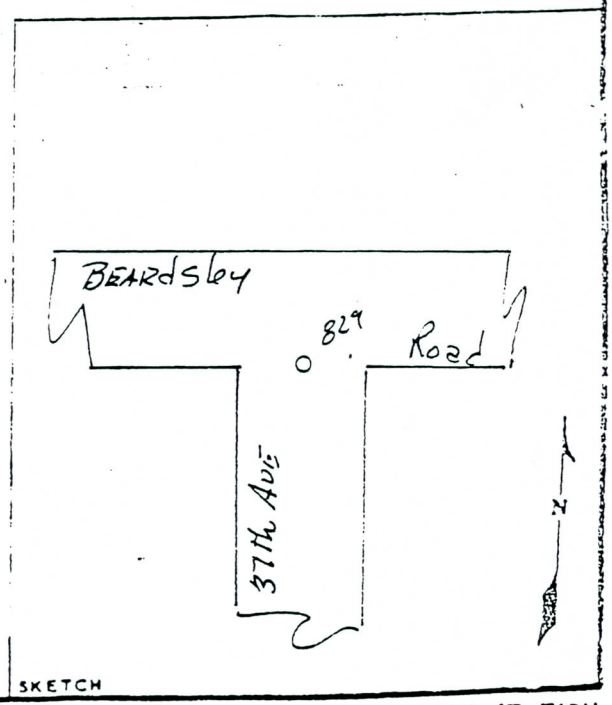
This station is located at (near) PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the

This station is located AT THE SOUTH SIDE OF BEARDSLEY Road NEAR ℄ OF 37th AVE.

This station is a

PK & SHINNER.



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC	831	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
		C.D.P.	1392.383
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
981 625.94	432 519.68	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

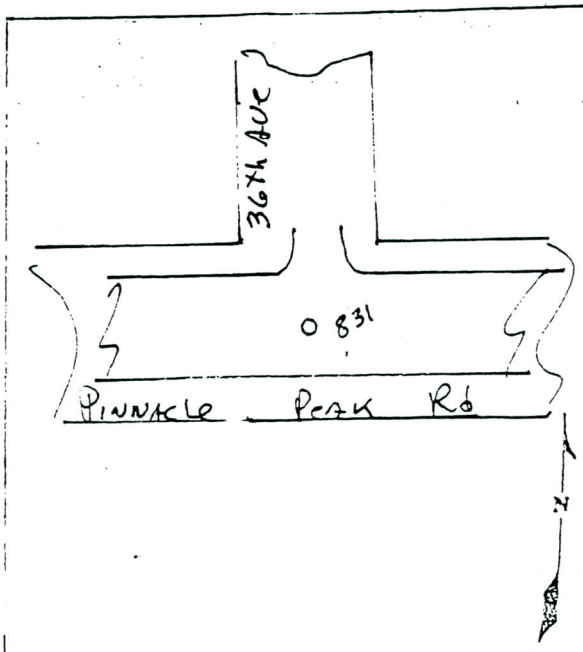
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the intersection of 35th Ave & Pinnacle Peak Rd Go West 1/4 Mile

This station is located at intersection of 36th Ave & Pinnacle Peak Rd.

This station is a BC Flush



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #34

COUNTRY	TYPE OF MARK	STATION	
USA	C.P.S.	732 NE 15 T4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1393.271
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
981636.46	433844.79	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

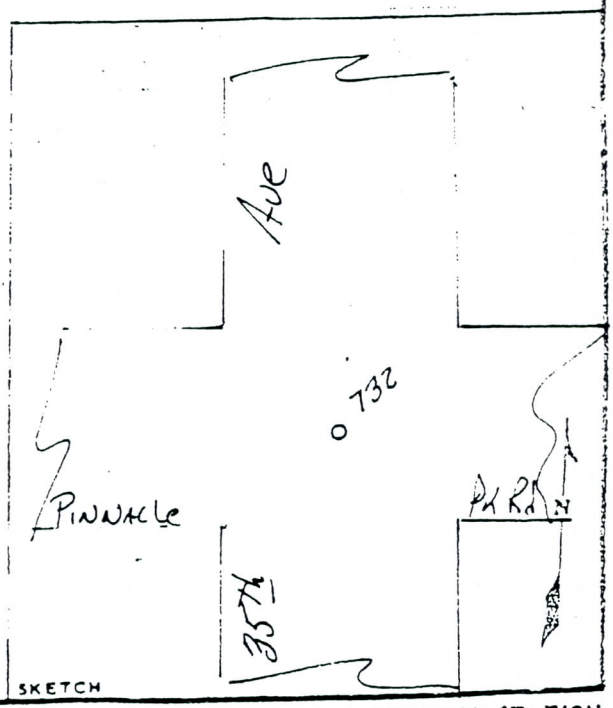
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

This station is located At
INTERSECTION OF 35th Ave
& Pinnacle Peak Rd.

This station is a
Cotton Picker Spindle
Set in Pot Hole



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #40

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Rebar	830	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1483.799
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT) 979921.44	(EASTING) (FT) 433959.05	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

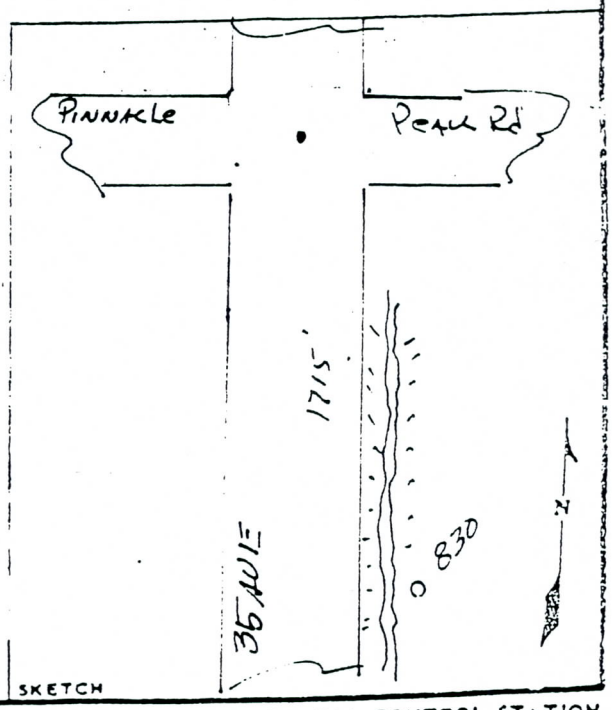
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION OF 35th Ave & Pinnacle peak Rd Go South 1715'

This station is located
100' East of ℄ 35th AVE in Dirt.

This station is a
1/2" Re BAR



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #41

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Re bar	833	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1400.653
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
981618.10	435667.49	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

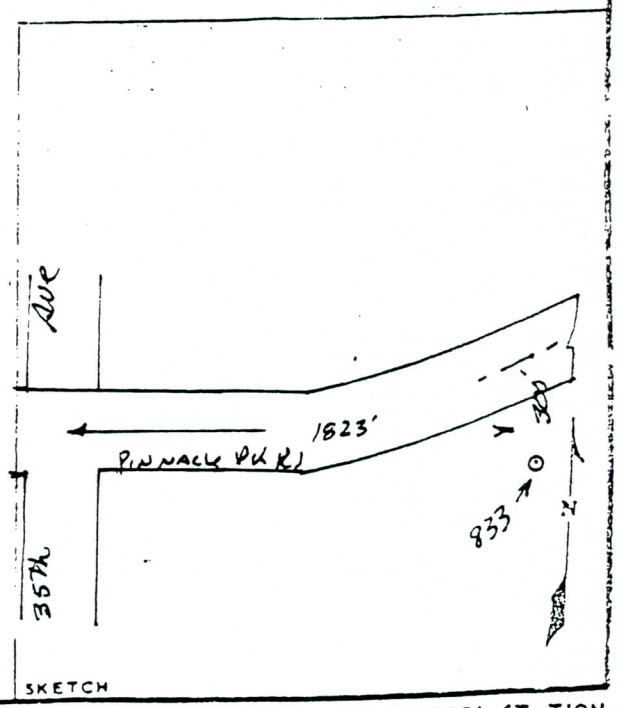
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION OF 35th Ave & Pinnacle Peak Road Go East 1823'

This station is located
Approx 300' South of Pinnacle Peak Rd.

This station is a
1/2" Re Bar.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

530

COUNTRY	TYPE OF MARK	STATION	
USA	Cotton Picker Spindle	SK 108	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1334.148
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

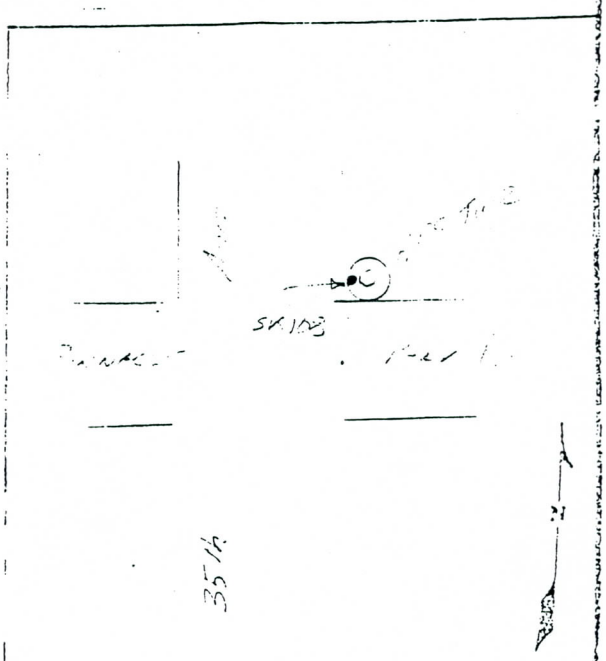
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION OF 35TH AVE & Pinnacle Peak Road

This station is located
APPROX 75' NE SE of IN Concrete Footer of APS Transformer Box on NWest side

This station is a
Cotton Picker Spindle Set in Concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM#43

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinnier	534	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1401.535
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

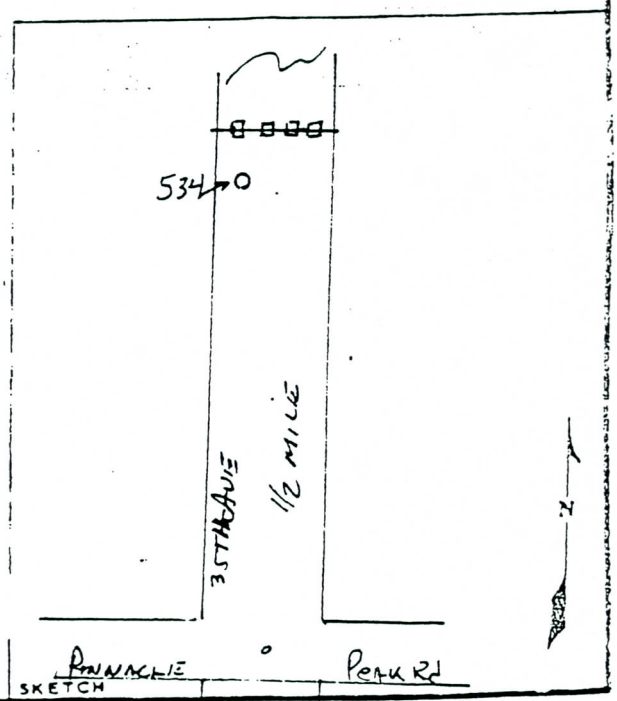
This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
Intersection of 35th Ave & Pinnacle Peak Rd go North 1/2 mile

This station is located on
West side of Blacktop

This station is a

PK & Shinnier



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

550

COUNTRY	TYPE OF MARK	STATION	
USA	BC	SK 111	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 111	NGS	1421.271
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

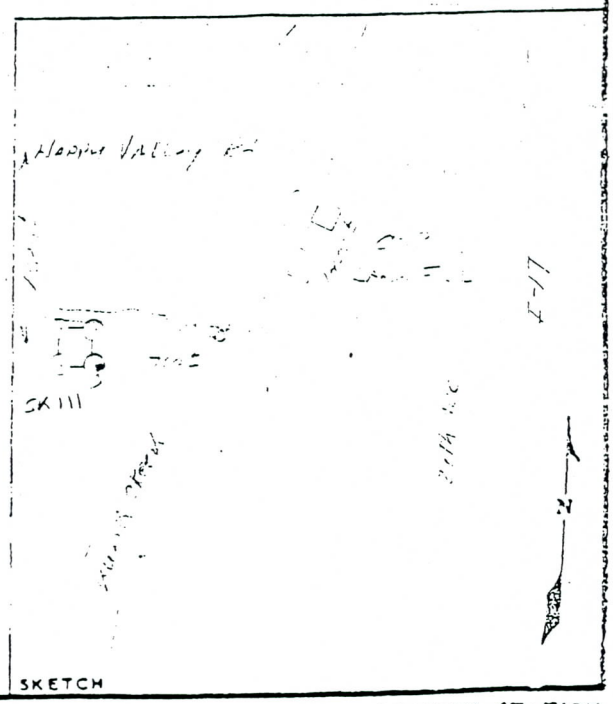
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz. (state)

To reach this station from the INTER. CHANGE I-17 & Happy Valley Rd go west approx. To entrance to SRP LAND FILL

This station is located in the SE-Footer of SRP TRANSMISSION TOWER just west of SKUNK CREEK

This station is a BC set in south east concrete footer of SRP TRANSMISSION TOWER



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #45

COUNTRY	TYPE OF MARK	STATION	
USA	BC HH	735 NE 10 T4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
		MC #0.	1422.637
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
986 916.04	433818.14	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

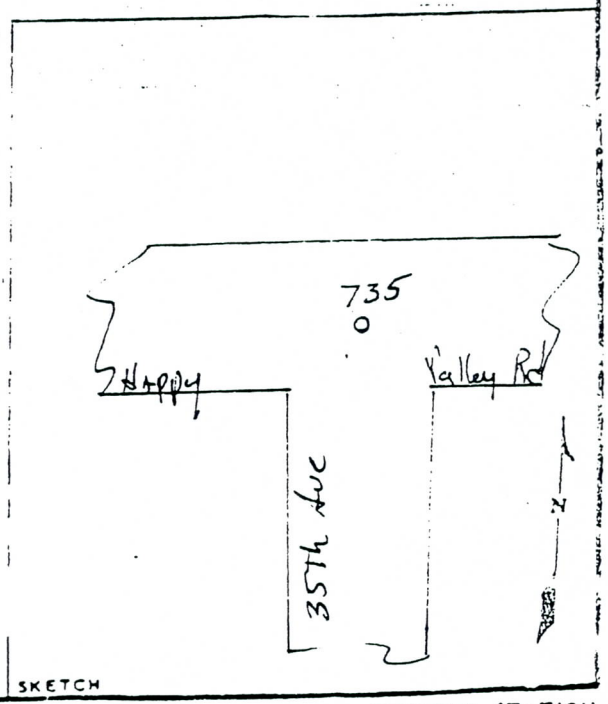
This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

This station is located
at intersection of 35th Ave
& Happy Valley Rd

This station is a

BC. in HH.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM + TO

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" RB.	536	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1429.938
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

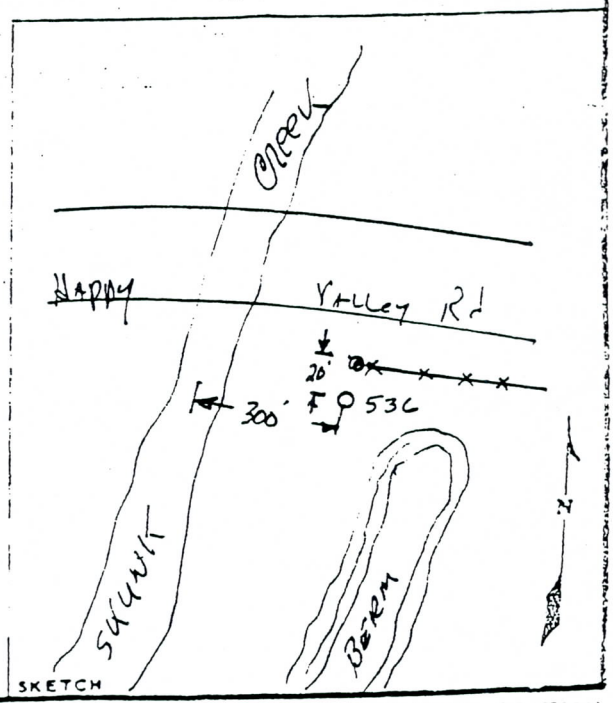
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
WTEK Section of I-17 & Happy Valley Road Go West Approx 1300'

This station is located
20' South of the end of chain link Fence on South side Happy Valley Road approx 300 EAST of SK. CR.

This station is a
1/2" Re BAR



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #47

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Rebar	837	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1436.120
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
987 002.49	437686.33	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

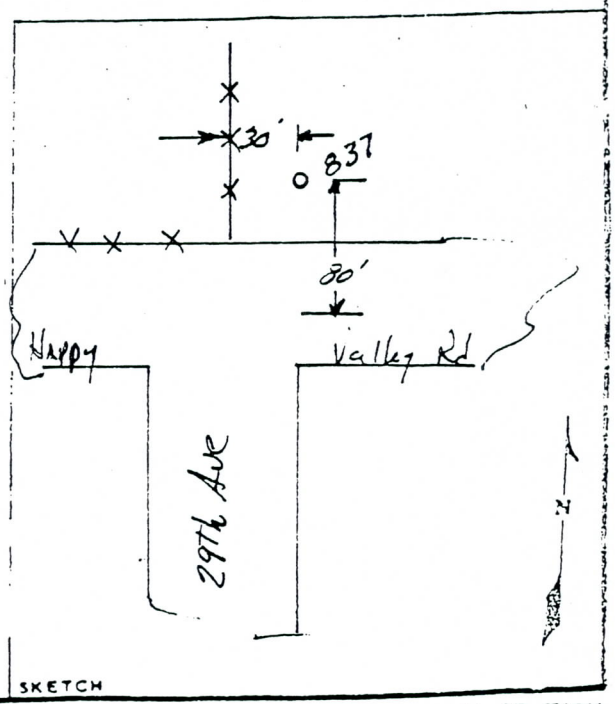
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Arizona (state)

To reach this station from the

This station is located
Aprox 80' North and
30' East of intersection
of 29th Ave & Happy
Valley Rd

This station is a
1/2" Rebar



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM 478

COUNTRY	TYPE OF MARK	STATION	
USA	1X2 WOODEN HUB	539	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1449.744
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

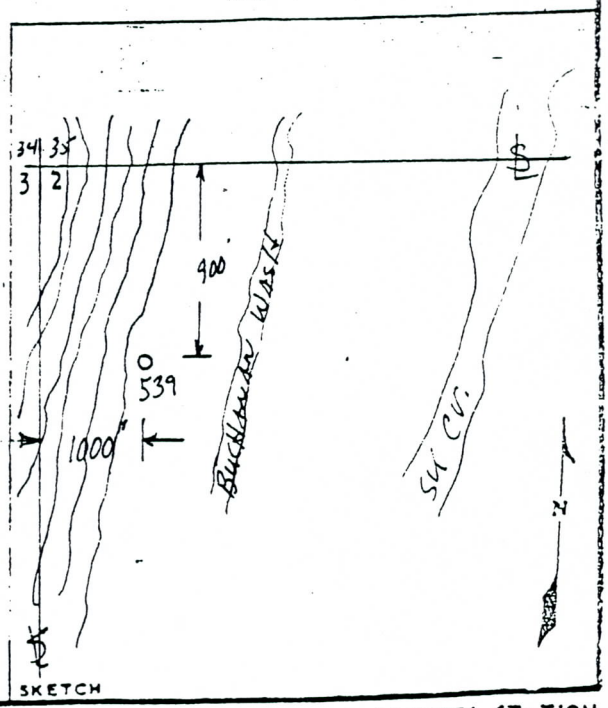
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
NW COR Sec 2 T4NR2E
Go 1000 East Then 900 South

This station is located
Along toe of Mnt 300'
West of Buchanan Wash

This station is a
1X2" Hub.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Rebar	538	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1454.053
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

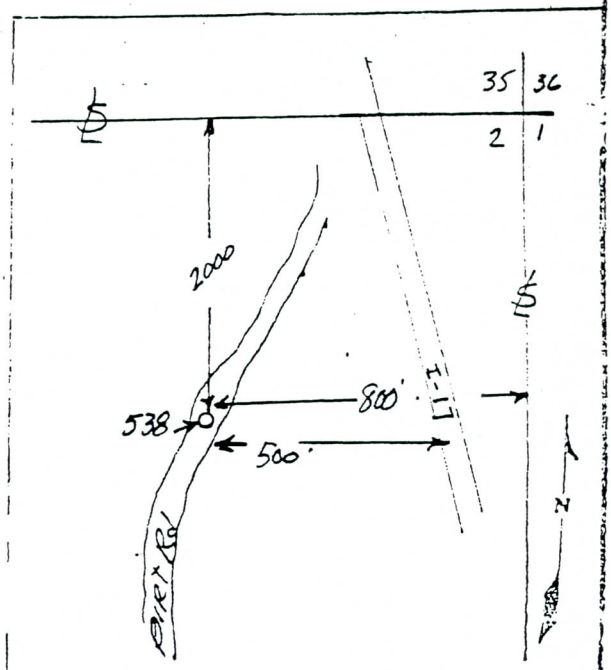
This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
NE COR Sec 2 T4N R2E
800' West & 2000 South

This station is located
Approx center of Dirt
Haul Rd to
Bar pit.

This station is a

1/2" Rebar



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

KM #50

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinner	540	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1470.139
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

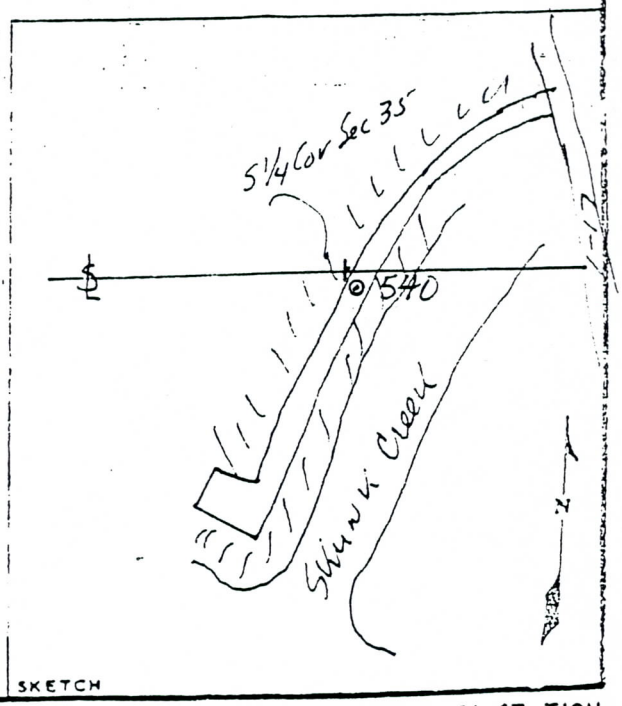
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the North Bank of Skunk Creek and West Frontage Road of I-17 Go west 1900 Along Maintance Rd of Skunk Creek

This station is located ℄ Black Top North Bank of Skunk Creek

This station is a PK & Shinner



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #51

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinner	542	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1495.341
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

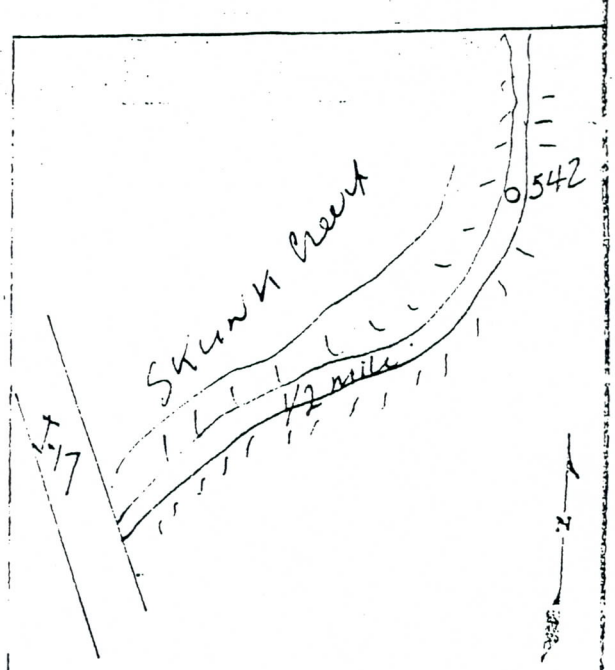
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of I-17 & Happy Valley Rd go North along East Frontage Road to Skunk Creek

This station is located 1/2 mile along south Maintance Road of Skunk Creek in ℄ of Black top.

This station is a PK & Shinner



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

ARIZ
LATITUDE 33°30' TO 34°00'
LONGITUDE 112°00' TO 112°30'
DIAGRAM NI 12-7 PHOENIX

42

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 526
Rev. Oct., 1933

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: SKUNK
STATE: Arizona COUNTY: Maricopa
YEAR: 1947 LOCALITY: Glendale
CHIEF OF PARTY: D.H.Konicheck

Surface-station mark,	Note,*	1a
Underground-station mark,	Note,*	7a
Reference mark, 1	Note,*	11a
Reference mark, 2	Note,*	11a
Azimuth mark,	Note,*	11a
Witness mark,	Note,*	

Height of light above station mark meters.
Height of telescope above station mark 1.6 meters.

DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND

OBJECT	Hor.	DISTANCE	DIRECTION	AZIMUTH
			° ′ ″	° ′ ″
UNION 1947			00 00 00.0	
Az. Mark	SSW	0.45mile	58 26 58.0	
B.M. Q56 1934	NNW	168.573m	208 23 23.0	
R.M. 2	N	14.537m	214 06 26	
R.M. 1	E	20.094m	309 22 09	

Detailed description:

Located on the east side of State Highway 69; about 19 miles north of Phoenix and 14 miles north-northeast of Glendale. It is 44 feet west of a fence corner, 52.5 feet east of the center line of the highway, 115.5 feet southeast of a cattle guard and 5.7 feet south of a witness post. It is stamped SKUNK 1947 and projects 2 inches.

Reference Mark No. 1 is 2.5 feet south of an east and west fence line. It is stamped SKUNK NO 1 1947 and projects 3 inches.

Reference Mark No. 2 is 75 feet southeast of a cattle guard, 50 feet east of the center line of the highway and 5.5 feet west of a north and south fence line. It is stamped SKUNK NO 2 1947 and projects 2 inches.

Bench Mark Q56 is a standard USC&GS disk set in a concrete post projecting 5 inches. It is 24.5 feet east of the center line of the highway and 45 feet south of a side road. It is stamped Q 56 1934.

The Azimuth Mark is located 0.45 mile south-southwest of the station; 39.5 feet west of the center line of the highway. It is stamped SKUNK 1947 and projects 4 inches.

To reach the station from the Santa Fe Railroad Depot in Glendale, go southeast on U. S. Highways 60, 70, and 89 for 2.6 miles to their junction with State Highway 69. Turn left and follow Highway 69 for 4.6 miles to the Arizona Canal; continue on highway for 10.55 miles to a crossroad; continue straight ahead 0.15 mile to the station on the right.

R

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY

RECOVERY NOTE, TRIANGULATION STATION

Name of Station: SKUNK
Established By: D.H.Konichek Year: 1947 State: Arizona
Recovered By: * S.L.Hollis Jr. Year: 1959 County: Maricopa

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts: All marks were recovered as described and in good condition. A new witness post was set, measurements to the marks are as follows:

Witness post to:	Station Mark	29.5 feet	west
	RM 1	40.0 "	east
	RM 2	55.1 "	northwest

The old road has been relocated and the station is now reached from the junction of Camelback Road and Black Canyon Highway in Phoenix by going north on Arizona State Highway 69 for 14.3 miles to a graded road on the right. This is 0.1 mile south of the bridge over Skunk Creek. Turn right through a cattle guard and go east for 0.1 mile to a track road right, turn right and go 0.05 mile southwest to an east-west fence and the station.

To reach the azimuth mark from the station, return to the cattle-guard, turn left and go south on Arizona State Highway 69 for 0.35 mile to a graded road on the right, turn right and follow the road southwesterly for 0.15 mile to the azimuth mark on the right, 40 feet west of the center of the dirt road.

N.C.Sampson

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: SKUNK RM #52 YEAR: 1947
STATE: Ariz LOCALITY: Phoenix to Parker
Second -ORDER Triangulation SOURCE: G-8347 FIELD SKETCH: ARIZ 26

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ (OR Δα) ANGLE	MARK
STATE: Ariz ZONE: C CODE: 0202	x 438,686.61 y 991,572.47	20°29'52" - 0 06 43	AZIMUTH MARK
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE: 33°43'32".251 LONGITUDE: 112 07 05.968	NORTH WEST		447.71 1,468.9	METERS FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE LOGARITHM (Meters)	DISTANCE METERS
AZIMUTH MARK	THIRD-ORDER 20°23'08".6		

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BENCH MARK Q 56 YEAR: 1947
STATE: Ariz LOCALITY: Phoenix to Parker
Second -ORDER Traverse SOURCE: G-8347 FIELD SKETCH: ARIZ 26
(No check on this position)

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH θ (OR Δα) ANGLE	MARK
STATE: Ariz ZONE: C CODE: 0202	x 438,594.77 y 992,117.73	- 0 06 44	
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION		SECONDS IN METERS	ELEVATION	
	LATITUDE: 33°43'37".644 LONGITUDE: 112 07 07.068	NORTH WEST		448.47 1,471.4	METERS FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE LOGARITHM (Meters)	DISTANCE METERS
Computed from station SKUNK			

KM #53

COUNTRY	TYPE OF MARK	STATION	
USA	BC	D267 RSet	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	D 267 Reset	NGS	1473.106
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	US
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~near~~ at Thorne (city), Maricopa (county), Ariz. (state)

To reach this station from the
Dove Valley Interchange on
I-17 go North along East
Frontage Rd. 4.5 miles

This station is located
Approx 70' East of ℄
East Frontage Rd.

This station is a
Set in concrete
Test Elev.

SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #54

COUNTRY	TYPE OF MARK	STATION	
USA	1 1/2" IRON Pipe	744 NE Cor 35 T5N 2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

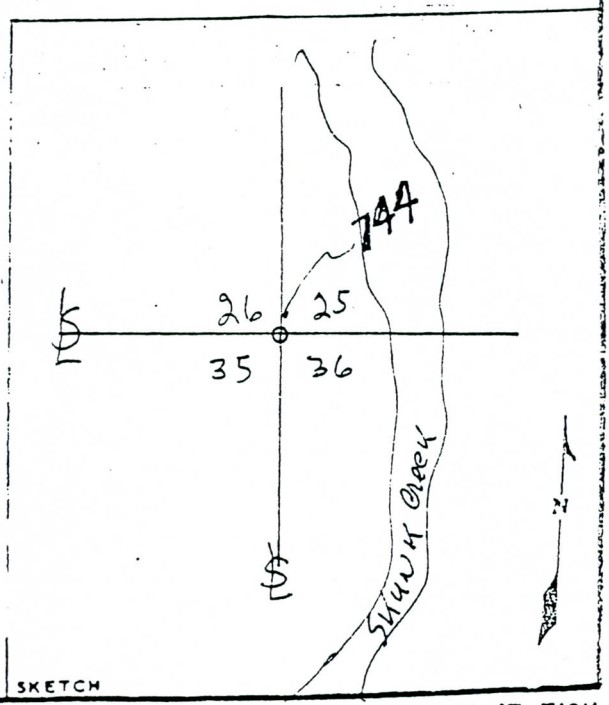
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Arizona (state)

To reach this station from the
INTERSECTION OF I-17 & Happy Valley Rd Go North along East Frontage Road 2mi

This station is located
1800 East of I-17 on West Bank of Skunk Creek in Hole 1' deep.

This station is a
1 1/2" IRON Pipe



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #55

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinner	545	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1513.918
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

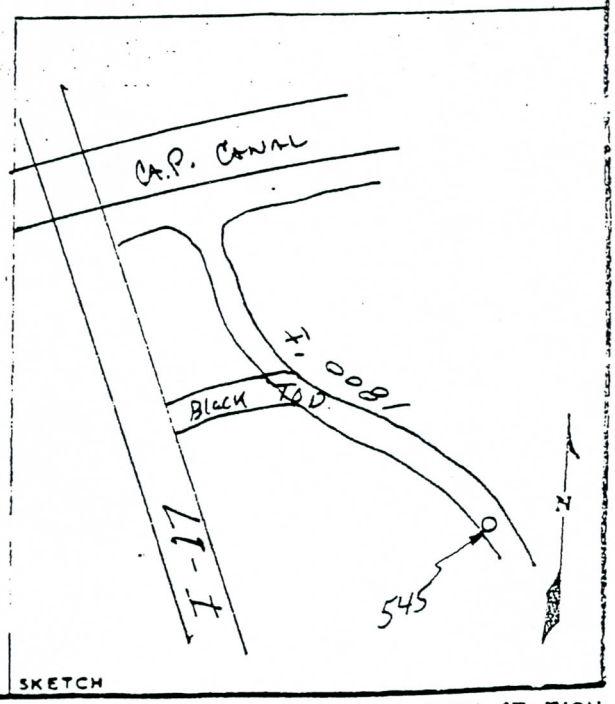
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at/near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the CAP CANAL Go South East along Maintance Road for Skunk Creek 1800'

This station is located ℄ of Black Top Maintance Rd for Skunk Creek

This station is a PK & Shinner



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

RM #56

COUNTRY	TYPE OF MARK	STATION	
USA	PK & Shinner	846	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT) 1531.847
LATITUDE	LONGITUDE	DATUM NA 1927	DATUM MSL 1929
(NORTHING) (FT) 1 000 468.04	(EASTING) (FT) 436922.79	GRID AND ZONE AZ TM	ESTABLISHED BY (AGENCY)
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

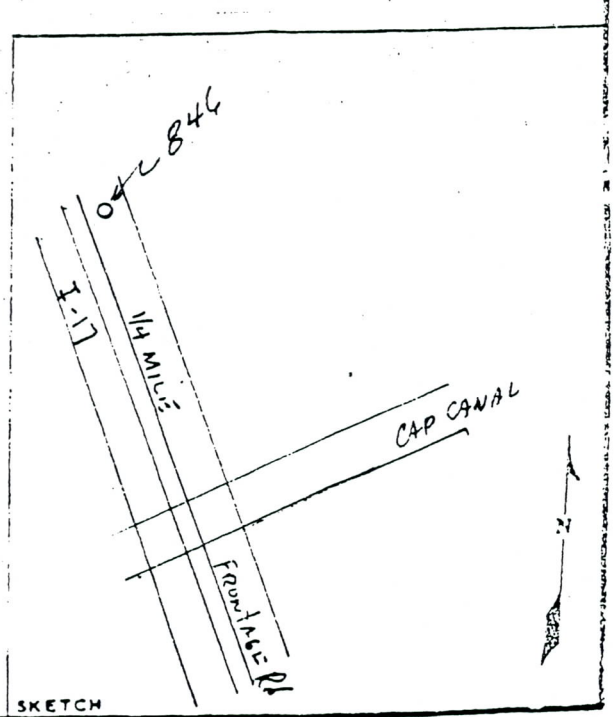
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
CAP CANAL & East FRONTAGE
ROAD of I-17 Go North
1/4 MILE

This station is located
℄ of East FRONTAGE Rd

This station is a
PK & Shinner



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	CWR	SK 112	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 112	NONE	1513.437
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

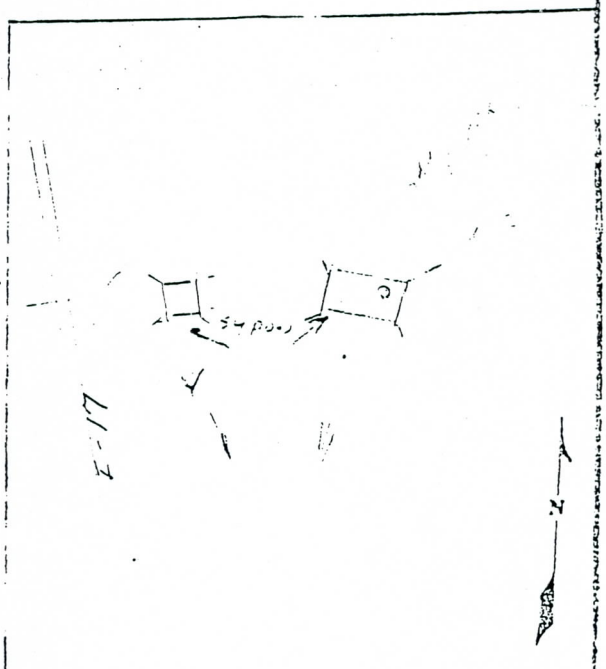
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION OF I-17 & THE
EAST PORTAL GO EAST ALONG NORTH
SIDE RD 3500 TO 2ND SYPHON

This station is located
IN APRON TOP OF SYPHON
FOR SKUNK CREEK EAST
CANAL NE COR OF SYPHON
IN THE WEST 1/2 SEC 25

This station is a
[illegible] Concrete
APRON APPROX [illegible] WEST OF
[illegible] APRON OF SYPHON.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

SECTION II

HORIZONTAL AND VERTICAL CONTROL TABULATION

(Reference Marks Outside of Mapping Limits and not shown on Floodplain Delineation Maps)

CVL

COUNTRY	TYPE OF MARK	STATION	
USA	BC	AC 89 - 3 - DC	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	AC 89 - 3 - DC	USCE	1213.16
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the

[illegible] Bell Rd

[illegible]

This station is located

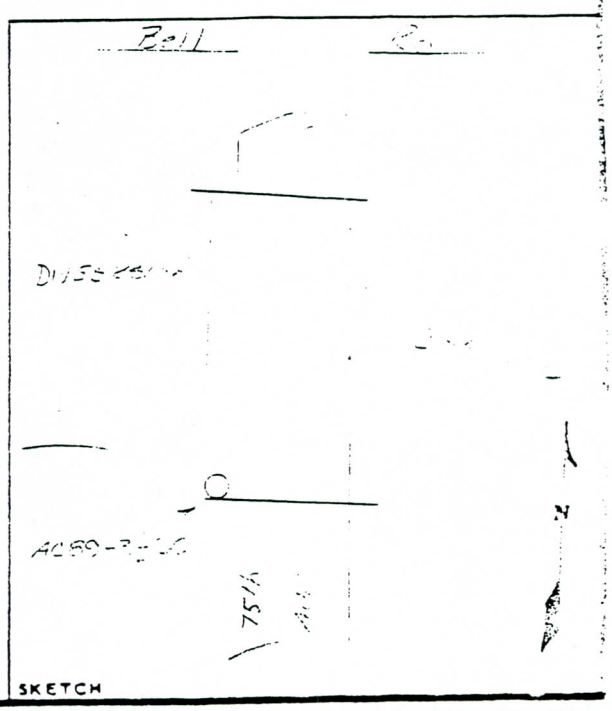
on the [illegible] of Bridge

[illegible] that Diversion

Channel

This station is a

[illegible]



SKETCH

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DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

570

COUNTRY	TYPE OF MARK	STATION	
USA	BC	570	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	COP	COP.	1236.650
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

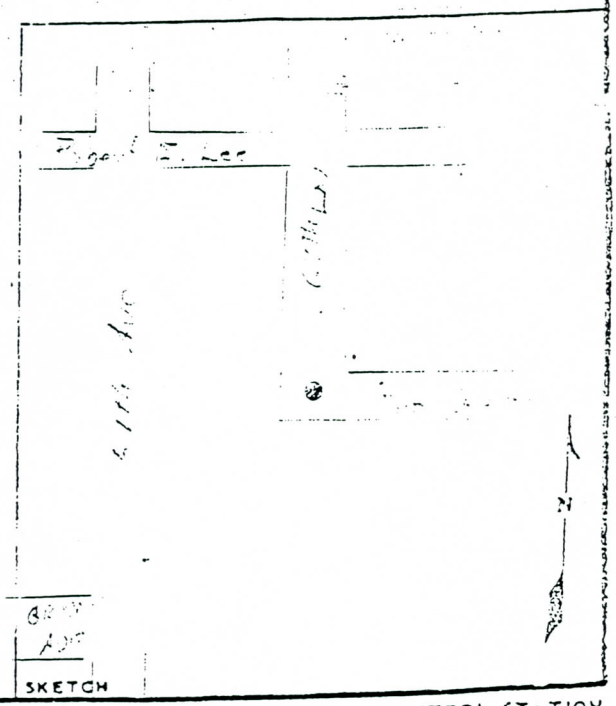
This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
intersection of 6th Ave
5th Ave Go North ½ mile to
Robert E. Lee East to 66th Ln then
South to John Carol Rd

This station is located
in the intersection of
66th Ln & John Carol Rd

This station is a

BC Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

898

COUNTRY	TYPE OF MARK	STATION	
USA	BC	898	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	COP	COP	1239.257
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ' " TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ' " TO THE GEODETIC AZIMUTH

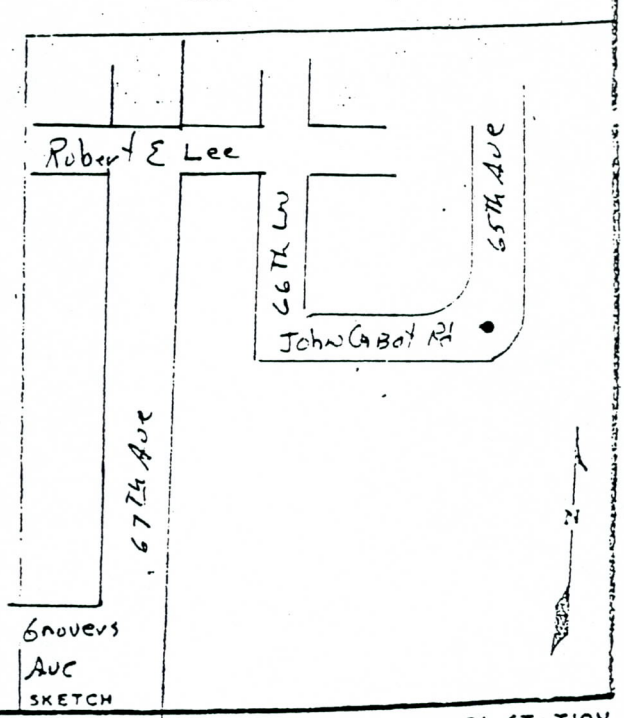
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ' "	° ' "		

This station is located at (near) PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the
INTERSECTION of GROVERS AVE & 67TH AVE GO NORTH to Robert E. Lee Then EAST TO 66TH LN. THEN South to ~~John Cabot Rd~~ East on John Cabot to 65TH AVE.
This station is located
IN The Intersection of John Cabot Rd AND 65TH AVE

This station is a

BC Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	BC	571	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	CoP	CoP.	1242.533
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

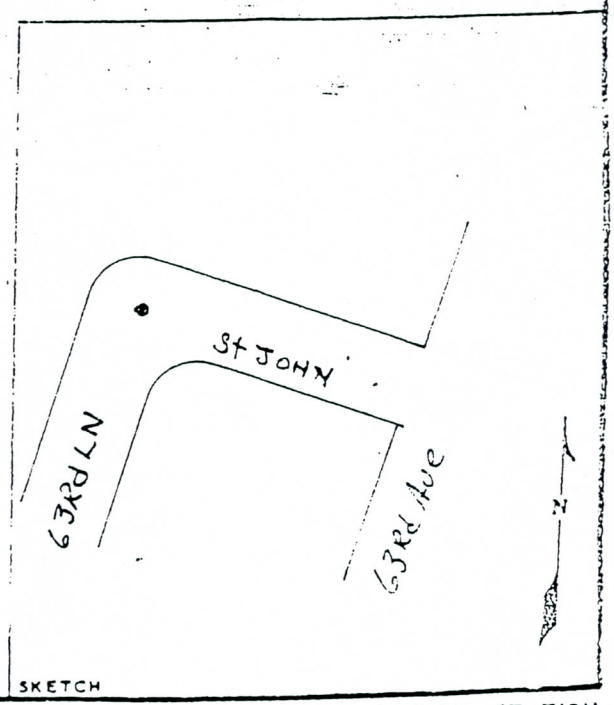
This station is located at / near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERSECTION of Grovers Ave &
59th Ave go West on Grovers
To 63rd Ave SOUTH ON 63rd Ave
to St John Ave West on St John
To 63rd LN

This station is located
in the intersection of
St John & 63RD LN

This station is a

BC. Flush



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	ALUM DISK	B - 475	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	B-475	NGS	1274.9074
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

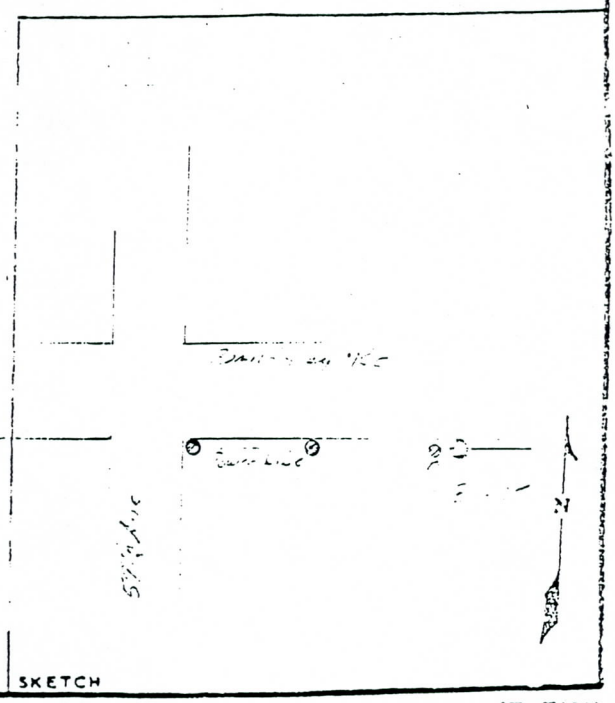
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Az (state)

To reach this station from the
intersection of 59th Ave &
Baseline go East north
to sta

This station is located
south side of Beardsley Rd
in lead of Power Line
East and West,

This station is a
Alum Disk set in
Pipe Monument
[illegible]



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK		
USA	Deck Spike	896	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
966 765.36	420 814.09	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

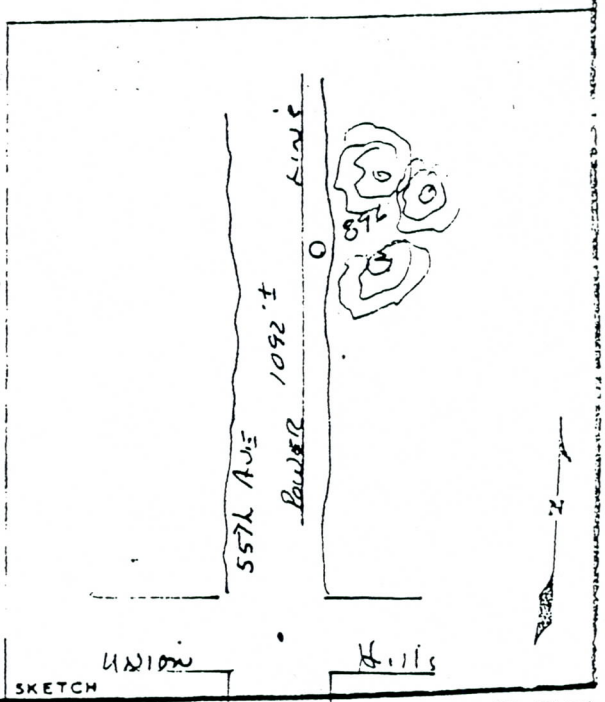
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of 55th Ave & Union Hills Road Go North 1092 ±

This station is located on Dirt Berm East of Power Line

This station is a Deck Spike



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	B C.	716 NE SEC 32 T4N R2E	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	1289.165
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
965 710.98	423 476.66	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

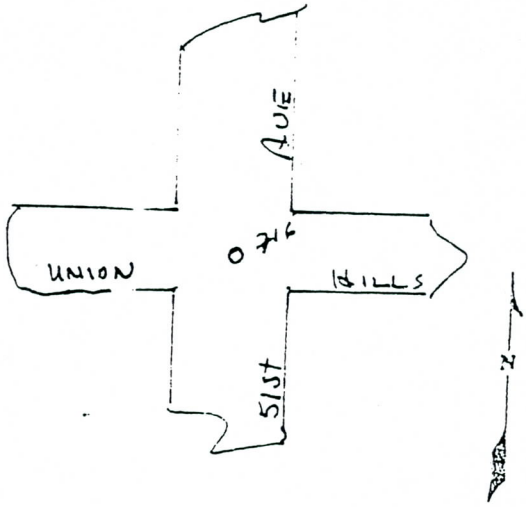
This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

~~To reach~~ this station ~~from the~~ is
INTER SECTION POINT OF 51st AVE
& UNION Hills

This station is located
℄ 51st Ave & Union Hills

This station is a

B.C FLUSH



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	Deck Spike	895	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
969 645.62	423 325.77	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

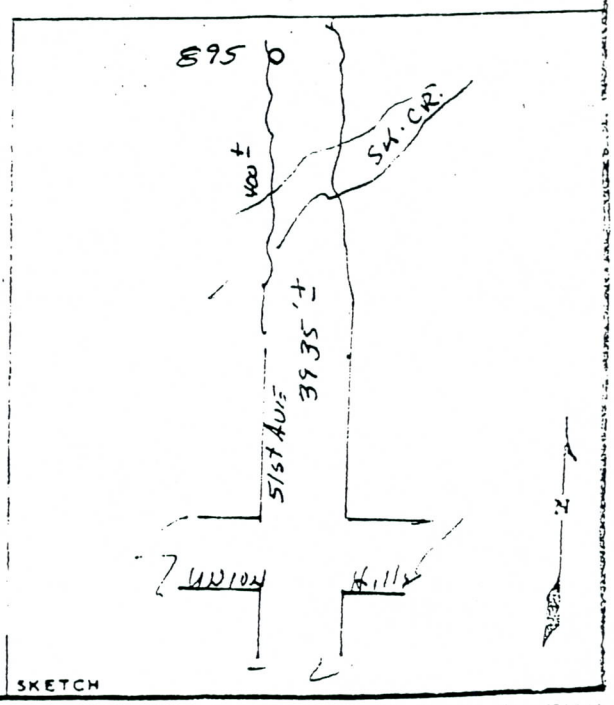
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) Phoenix (city), (county), (state)

To reach this station from the intersection of 51st Ave & Union Hill Go North 3935'

This station is located on west side of Dirt Road 400' North Skunk Creek.

This station is a Deck Spike



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	ALUM Cap	893 STA 1110 + 70.48 85 Lt N.F.R	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	A DOT	ADOT	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
971236.67	424569.35	AZ TM	—
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

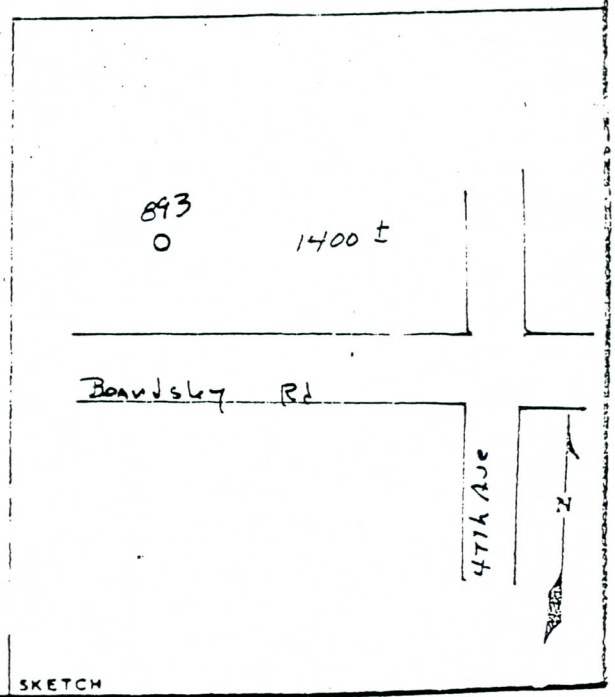
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at (near) Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
intersection of 47th Ave & Baseline Road Go west 1400 ±

This station is located
on R/W (North Frontage Rd) of expressway. [redacted]

This station is a
Alum Cap in concrete post.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	ALUM CAP	Z 474	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	Z - 474	NGS.	1357.056
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

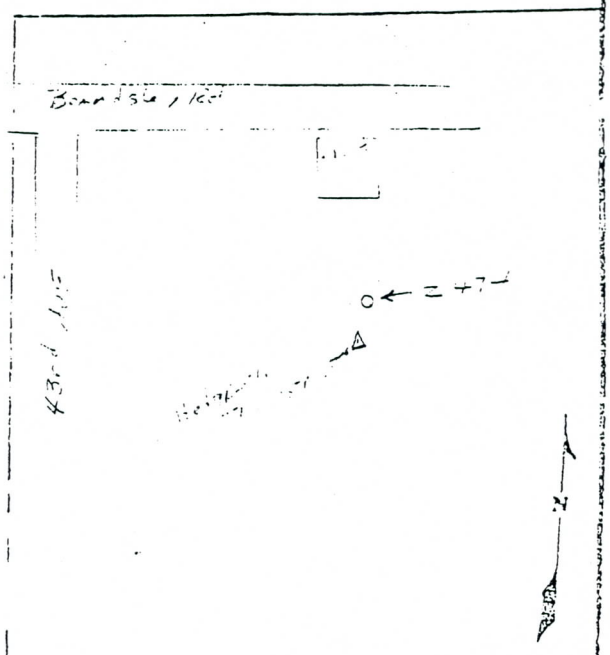
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near Phoenix (city), Maricopa (county), Ariz. (state)

To reach this station from the INTERSECTION OF 43RD AVE & BOARDSLEY GO EAST 1 MILE THEN SOUTH ONE ½ TO TOP OF HOPPOCK HILL

This station is located IN ROCK OUTCROP ABOUT ½ UP HILL ABOUT 24 ALONG NORTH SIDE OF HILL

This station is a NGS ALUM CAP.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	ALUM CAP	Y 47X	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	Y 474	NGS	1351.207
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	--
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

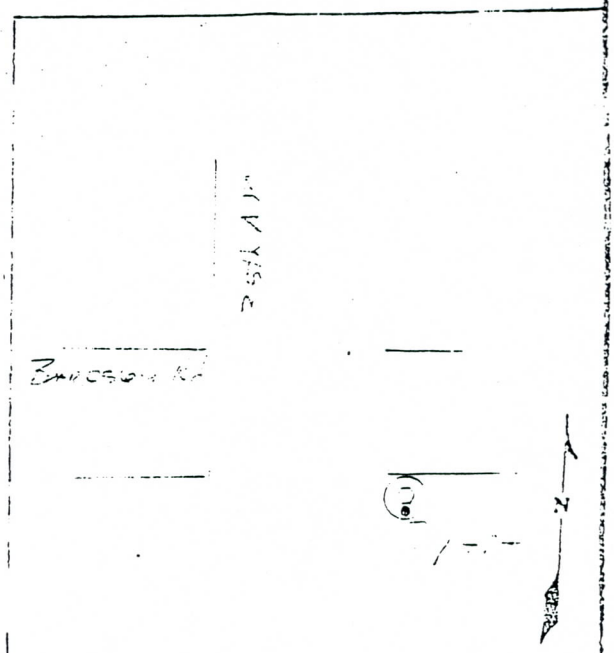
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of 35th Ave & Bardsley Go SE Approx 1/2 mi

This station is located IN the Footier of APS Transmission Tower South side

This station is a Aluminum Cap set in concrete



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	CWR.	889	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	AD87-01	USCE	1404.553
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
977948.36	433936.81	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

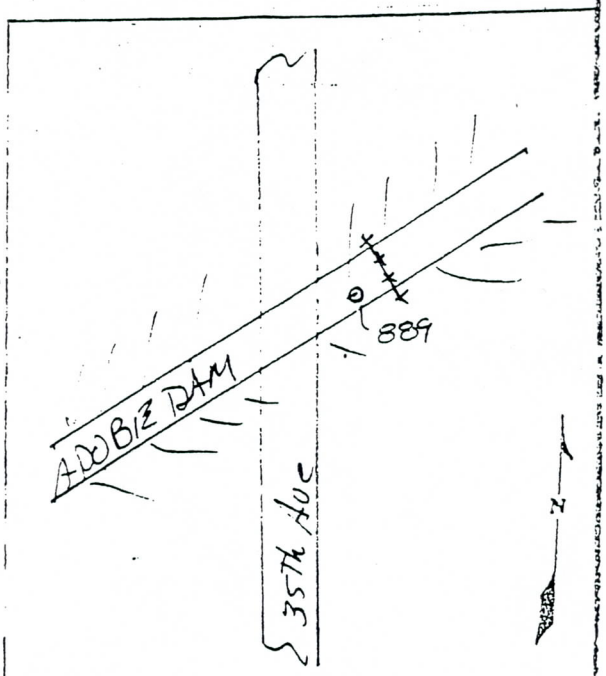
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near PHOENIX (city), MARICOPA (county), ARIZ (state)

To reach this station from the
intersection of 35th Ave & Deer Valley Rd Go North 4/10 mile to crest of ADOBE DAM

This station is located
100 East of ℄ 35th Ave in Black top on Dam crest

This station is a
Copper Weld Rod.



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

581

COUNTRY	TYPE OF MARK	STATION	
USA	Cotton Picker Spindle	SK 109	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	NONE	NONE	1401.011
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ IM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

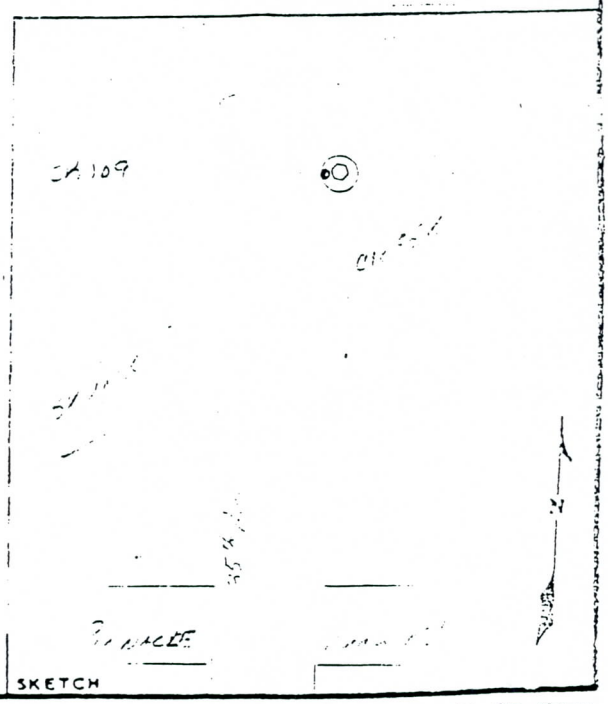
OBJECT	(GRID)	BACK AZIMUTH	GEOD. DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Arizona (state)

To reach this station from the
NORTHERN SECTION OF 35th AVE & PINNACLE PEAK ROAD GO NORTH 1000' ±

This station is located
IN THE FOOTPRINT OF ADOT TRANSMISSION TOWER # 3/9

This station is a
Cotton Picker Spindle
[illegible]
WEST SIDE OF TOWER



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	1/2" Re bAR	887	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

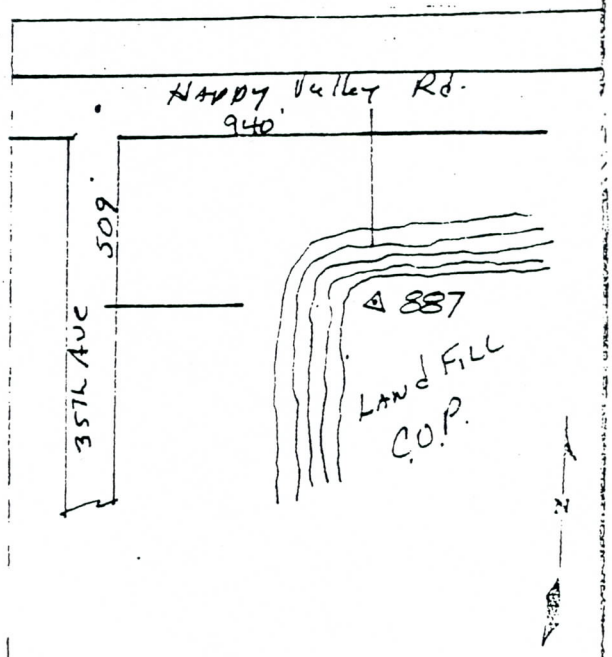
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
Intersection of 35th Ave & Happy Valley Rd Go East 940' Then South 509'

This station is located
NW Cor on top of Land fill

This station is a
1/2" Re BAR



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
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COUNTRY	TYPE OF MARK	STATION	
USA	BC	SK 110	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	SK 110	NONE	1430.234
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
		AZ TM	--
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

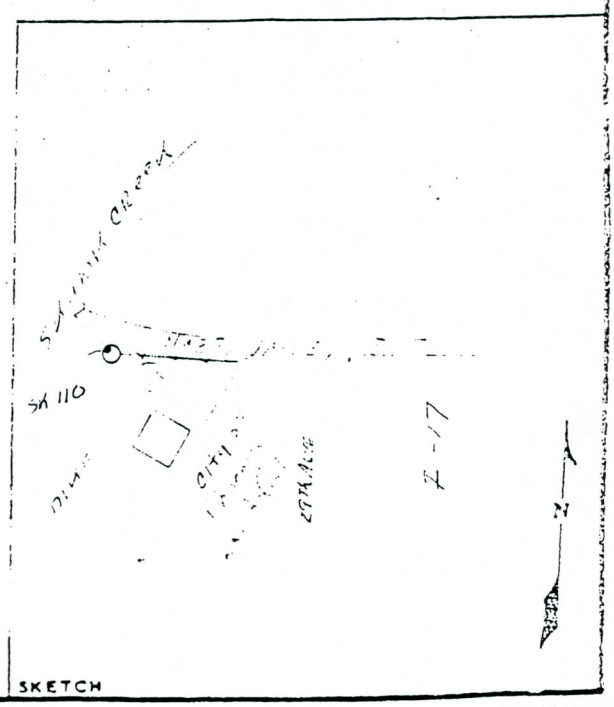
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the
INTERCHANGE ON I-17 & HAPPY VALLEY ROAD GO WEST 2 MILES ±

This station is located
ON THE SOUTH SIDE OF ROAD AT WEST END OF CHAIN LINK FENCE ABOUT 40 ± EAST OF SKUNK CREEK

This station is a
BRASS DISK IN CONCRETE FOUNDATION



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1959 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

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COUNTRY	TYPE OF MARK	STATION	
USA	Deck Spike	886	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
992 803.92	438 595.75	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

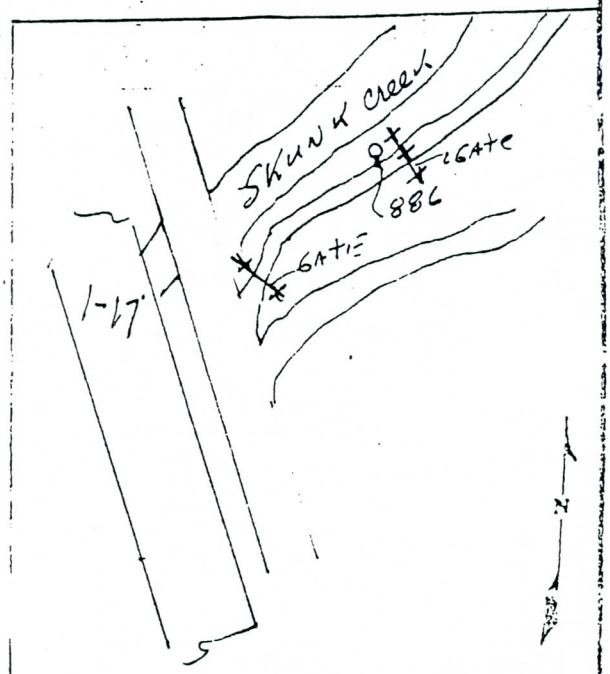
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located ~~at~~ near Phoenix (city), Maricopa (county), Ariz (state)

To reach this station from the intersection of I-17 & Happy Valley Rd. Go North along East Frontage Road to Skunk Creek.

This station is located Left side of South Maintance Rd along Skunk creek 10' West of fence at 2nd Gate along Rd.

This station is a Deck Spike



SKETCH

DA FORM 1 OCT 84 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION

For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	R/R Spike	884	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
993 268.62	439 133.59	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

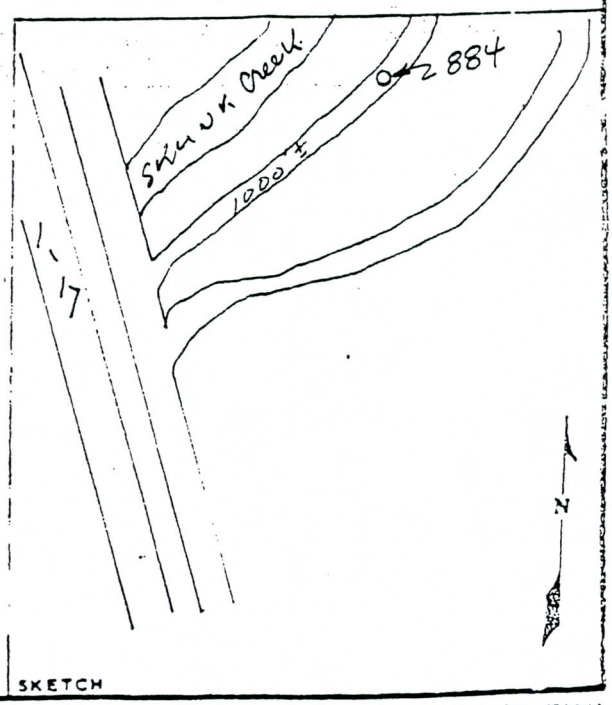
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at near _____ (city), _____ (county), _____ (state)

To reach this station from the
intersection of I-17 & Happy ~~Hollow~~ Valley Rd Go North on East Frontage Rd to Skunk Creek

This station is located
Aprox 1000 EAST of Frontage Rd I-17 & Skunk Creek

This station is a
R/R Spike



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

COUNTRY	TYPE OF MARK	STATION	
USA	Deck Spike	885	
LOCALITY	STAMPING ON MARK	AGENCY (CAST IN MARKS)	ELEVATION (FT)
	—	—	—
LATITUDE	LONGITUDE	DATUM	DATUM
		NA 1927	MSL 1929
(NORTHING) (FT)	(EASTING) (FT)	GRID AND ZONE	ESTABLISHED BY (AGENCY)
999 180.96	440 315.32	AZ TM	
(NORTHING)(EASTING) (FT) (M)	(EASTING)(NORTHING) (FT) (M)	GRID AND ZONE	DATE / ORDER

TO OBTAIN GRID AZIMUTH, ADD ° ′ ″ TO THE GEODETIC AZIMUTH

TO OBTAIN GRID AZ. (ADD)(SUB.) ° ′ ″ TO THE GEODETIC AZIMUTH

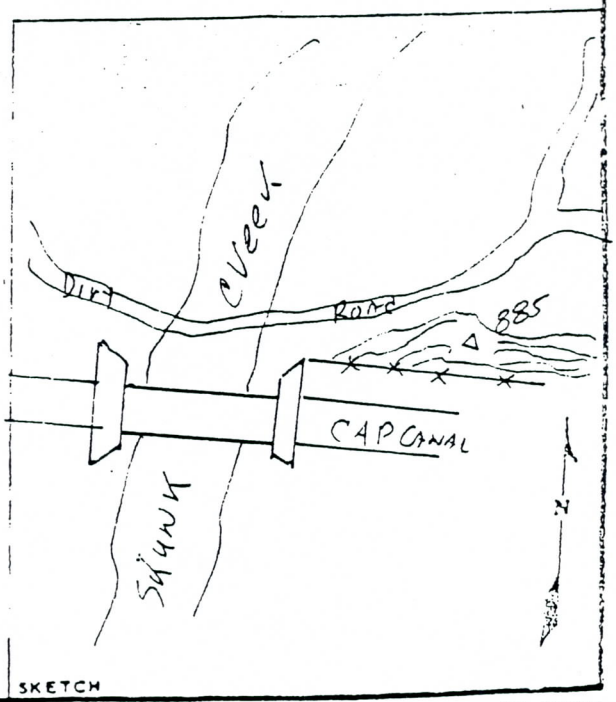
OBJECT	(GRID)	BACK AZIMUTH	GEOD DISTANCE (METERS) (FEET)	GRID DISTANCE (FEET)
	° ′ ″	° ′ ″		

This station is located at / near _____, _____, _____
(city) (county) (state)

To reach this station from the
INTERSECTION of I-17 East Frontage Rd & CAP. CANAL Go East to SKUNK Creek.

This station is located
15' North of North fence 200' East of Sypon of SKUNK Creek.

This station is a
Deck Spike



SKETCH

DA FORM 1 OCT 64 1959 REPLACES DA FORMS 1958 AND 1960, 1 FEB 57, WHICH ARE OBSOLETE.

DESCRIPTION OR RECOVERY OF HORIZONTAL CONTROL STATION
For use of this form, see TM 5-237; the proponent agency is TRADOC.

ANL TIC
WASHINGTON D.C.

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

QUAD 331121 STATION 1026
ARIZ
LATITUDE 33°30' TO 34°00'
LONGITUDE 112°00' TO 112°30'
DIAGRAM NI 12-7 PHOENIX

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 526
Rev. Oct., 1933

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: HEDGPETH
CHIEF OF PARTY: D.H.Konichek
Surface-station mark, Note,* 2
Underground-station mark, Note,*
Reference mark, No. 1 Note,* 12c
Reference mark, No. 2 Note,* 12a
Azimuth mark, See below Note,*
Witness mark, Note,*
Height of light above station mark meters.
Height of telescope above station mark 1.7 meters.†

STATE: Arizona COUNTY: Maricopa
YEAR: 1947 LOCALITY: Phoenix

DISTANCES AND DIRECTIONS TO REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND

OBJECT	Hor.	DISTANCE	DIRECTION	AZIMUTH
SUNNYSLOPE 1947		Meters	00 00 00.00	° ′ ″
R.M. No. 2	SE	12.195	06 43 27.	
R.M. No. 1	NW	10.078	185 17 10.	
Az. Mk. (USC&GS BM N 56 1934) approx. 0.5 mile NE			279 51 38.0	

Detailed description:

The station is located on a low rock butte which is the lowest one at the southeast end of the Hedgpeth hills. The butte is separated from the main hills by the Skunk River and is about 15 miles air line north and west of Phoenix and about 9 miles air line north and east of Glendale. The station is on the highest point of a low east-west ridge, projects 7 inches and is stamped: "HEDGPETH 1947".

Reference mark No. 1 is approximately 3 feet lower than the station, projects 3 inches and is stamped: "HEDGPETH NO 1 1947".

Reference mark No. 2 is about 10 feet east of the southwest brim, approximately 2 feet lower than the station, flush with the ground surface and is stamped: "HEDGPETH NO 2 1947".

The azimuth mark is a USC&G Survey Bench Mark located about 200 yards south of a dip in State Highway # 69 , about 100 yards south-southeast of a highway sign "dip", 10 paces west of and approximately the same elevation as the center line of highway, a bronze disk set in top of a concrete post which projects 10 inches and is stamped "N 56 1934".

To reach from the junction of West Van Buren Street and US Highways #60, 70, & 89 in Phoenix; go north on Hwys 60, 70, & 89 for 5.8 miles to the junction of State Route # 69; turn right (N) on highway # 69 for 5.1 miles to the Arizona Canal and end of paved road; continue straight ahead on gravel road for 6.1 miles to a track road left at a small rocky hill on left; turn left and follow track road around the base of hill for 0.2 mile to the end of truck travel; from this point pack north over rocky hump to the highest point and station site . A five minute pack.

To reach the azimuth mark from the track road left mentioned in the description; continue straight ahead for 1.15 mile to Bench Mark on left as described above.

U.S. DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY

RECOVERY NOTE, TRIANGULATION STATION

R

Name of Station: HEDGPETH
Established By: D.H.K. Year: 1947 State: Arizona
Recovered By:* S.L.H. Year: 1959 County: Maricopa

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

The station mark, reference mark No. 1 and reference mark No. 2 were recovered and found in good condition. The azimuth mark has been destroyed. Triangulation station PAT can be used for an azimuth mark. (See description thereof).

Following is a new and complete description:

The station is located on the lowest one and at the southeast end of the Hedgpeth Hills. It is about 15 miles north of Phoenix, 9 miles northeast of Glendale and 2 miles west of State Highway 69.

To reach the station from the intersection of Glendale Ave. and Black Canyon Highway (State Highway 69), go north on Black Canyon Highway for 8.65 miles to Beardsley Drive, turn left, west, follow the graded road for 1.2 miles to 35th Ave., turn left, south, follow the graded road for 0.5 mile to a crossroad, turn right, west, follow the graded road for 0.8 mile to a road right, turn right and follow the track road north along a powerline for 0.2 mile to the end of truck travel.. From here pack northeast to the highest point of the rocky hill and the station. A 5 minute pack.

The station mark, stamped HEDGPETH 1947, is a standard disk cemented in a drill hole in bedrock that projects 7 inches. Note 2.

Reference mark No. 1, stamped HEDGPETH NO 1 1947, is a standard disk cemented in a drill hole in a boulder that projects 3 inches and is about 3 feet lower than the station. Note 12c.

Reference mark No. 2, stamped HEDGPETH NO 2 1947, is a standard disk cemented in a drill hole in a boulder that is flush with the surface of the ground and is 2 feet lower than the station. Note 12c.

OBJECT	BEARING	DISTANCE	DIRECTION
PYRAMID PK 1947			00 00 00.00
PAT	N	(3.4 mile)	33 04 39.4
R.M. No. 2	SE	40.00 Ft. 12.195 M.	168 35 41
R.M. No. 1	NW	33.06 Ft. 10.077 M.	347 08 01

*Name of chief of party should be inserted here. The officer who actually visits the station should sign his name at the end of the recovery note.

K.D. Barber

NOTE - One of these forms must be used for every station recovered.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: HEDGPETH
YEAR: 1947, 1959
STATE: Arizona LOCALITY: Phoenix to Parker (Vicinity of Phoenix)
Second ORDER Triangulation SOURCE: G-8347, G-11954, G-13304 FIELD SKETCH: Ariz. 26, 38-II

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (FOR ∆α) ANGLE	MARK
STATE: Ariz. ZONE: C CODE: 0202	x 430,359.03 y 969,715.41	242° 13' 31" - 0 07 37	AZIMUTH MARK
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION
	LATITUDE: 33° 39' 55".8247 NORTH LONGITUDE: 112 08 43.9947 WEST		BENCH MARK METERS FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE (Meters)
AZIMUTH MARK	THIRD-ORDER 242°05'54".2	

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEAN SURVEY
Revised JUNE 1973

HORIZONTAL CONTROL DATA

by the
Coast and Geodetic Survey
NORTH AMERICAN 1927 DATUM

QUAD 331121 STATION 1005
ARIZ
LATITUDE 33°30' TO 34°00'
LONGITUDE 112°00' TO 112°30'
DIAGRAM NI 12-7 PHOENIX

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
FORM 526
Rev. Aug. 1948

DESCRIPTION OF TRIANGULATION STATION

NAME OF STATION: ADOBE STATE: Arizona COUNTY: Maricopa

CHIEF OF PARTY: S.L.Hollis, Jr. YEAR: 1959 Described by: N.O.S.

NOTE.*	HEIGHT OF TELESCOPE ABOVE STATION MARK 2 METERS.1	HEIGHT OF LIGHT ABOVE STATION MARK METERS.
4 None	Surface-station mark, Underground-station mark	DISTANCES AND DIRECTIONS TO AZIMUTH MARK, REFERENCE MARKS AND PROMINENT OBJECTS WHICH CAN BE SEEN FROM THE GROUND AT THE STATION

	OBJECT	BEARING	DISTANCE feet	DISTANCE meters	DIRECTION ° ' "
	CAMELS BACK 2 1947				0 00 00.0
	BELL	S	(Approx.	3.7 miles)	35 12 39.5
12a	RM 1	NW	23.07	7.032	184 33 24
12a	RM 2	E	15.98	4.870	298 50 56

Detailed descriptions:

The station is located in tumbled angular boulders that form the northeastern point of a hill about 0.5 mile north of Adobe. There is a slightly higher point northwest of the station.

To reach the station from the junction of Camelback Road and Black Canyon Highway in Phoenix, go north on Arizona State Highway 69 for 12.3 miles to the end of truck travel between two concrete culverts and just before a power transmission line crosses the road diagonally. Pack west up the steep slope for about 20 minutes to the station.

The station mark is a standard disk stamped ADOBE 1959, set in a drill hole in a boulder that projects about 1 foot but is surrounded by higher boulders.

RM 1 is a standard disk stamped ADOBE NO 1 1959, set in a drill hole in a boulder that projects 3 feet. It is in one of the most prominent of the tumbled boulders and is about 3 feet higher than the station mark.

RM 2 is a standard disk stamped ADOBE NO 2 1959, set in a drill hole in a boulder that projects about 2 inches and is about 3 feet lower than the station mark. It is at the eastern edge of the hill.

Triangulation station BELL can be used as an azimuth mark. (See description thereof.)

RECOVERY OF SURVEY STATION

AREA: MARICOPA CO., ARIZ.	DESIGNATION OF STA: ADOBE	TYPE OF MARK: DISK
QUAD: USC&GS DESC. BK. ARIZ. VOL. II RE79	STAMPING ON MARK: ADOBE 1959	CONDITION: GOOD
TOWN: PHOENIX, ARIZ.	AGENCY (CAST IN MARK): USC&GS	POS. BY (AGENCY): USC&GS - 1967

ADDITIONS AND/OR REVISIONS TO DESCRIPTION OR SKETCH:

THE STATION MARK & RM'S 1 & 2 WERE RECOVERED AS DESCRIBED AND IN GOOD CONDITION.

REFERENCE MEASUREMENTS TO RM'S

RM NO. 1
PUB. DIST = 23.07 FT.
CHECK DIST = 23.1 FT.

RM NO. 2
PUB. DIST. = 15.98 FT.
CHECK DIST = 16.0 FT.

RECOVERY NOTE, TRIANGULATION STATION

R

NAME OF STATION: ADOBE
ESTABLISHED BY: S.L.H. YEAR: 1959 STATE: Arizona BENCH MARK(S) ALSO ☐
RECOVERED BY: L.F. Smith YEAR: 1970 COUNTY: Maricopa
AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN: 0.5 mile north of Adobe

Detailed statement as to the fitness of the original description; including marks found, stampings, changes made, and other pertinent facts:

All marks were recovered and found in good condition. The 1959 description is adequate.

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: ADOBE YEAR: 1959

STATE: Arizona LOCALITY: Phoenix to Flagstaff

Second -ORDER Triangulation SOURCE: d-11954, d-13304 FIELD SKETCH: Ariz. 38-II

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (OR Δα) ANGLE	MARK
STATE: Ariz. ZONE: C CODE: 0202	x 439,335.54 y 980,161.75	359° 24' 09" - 0 06 38	AZIMUTH MARK Δ BELL
STATE: ZONE: CODE:	x y		

GEODETIC DATA	POSITION	SECONDS IN METERS	NO CHECK ELEVATION
	LATITUDE: 33° 41' 39".3656 NORTH LONGITUDE: 112 06 58.0236 WEST		526 METERS 1726 FEET

TO STATION	GEODETIC AZIMUTH (From south)	DISTANCE (Meters)
BELL	SECOND-ORDER 359°17'30".8	

FORM 1-1 (7-23-69) USCOMM-DC 71181-P65

(Continued on next page)

Sec 40 - 40 - 2W,S

ACRN= ********** BENCH MARK DESCRIPTION **********
DESIGNATION--X 474 STATE--AZ COUNTY--MARICOPA
QUAD-- GSN-- LINE-- AREA--
LOCATED FROM THE CITY OR TOWN OF--PHOENIX
MONUMENT BY--NGS YR--1981 CP--BWM MARK TYPE--BM DISK
SPECIFIC SETTING--DEEP WELL PAD ATTACHED TO CASING MONUMENTATION CODE-
STAMPING--X 474 1981 OTHER CONTROL--
LATITUDE = 334009N LONGITUDE = 1120731W
********** ORIGINAL DESCRIPTION **********

21.4 KM (13.3 MI) NORTH ALONG INTERSTATE HIGHWAY 17 FROM THE INTERSECTION OF GRAND AVENUE AT PHOENIX, THENCE 1.1 KM (0.7 MI) WEST ALONG BEARDSLEY ROAD, 0.8 KM (0.5 MI) EAST OF 35TH STREET, AT AN ABANDONED DEEP WATER WELL, IN TOP OF THE NORTHEAST CORNER OF THE CONCRETE PAD WHICH IS ATTACHED TO THE CASING, 32.9 METERS (108 FT) SOUTH OF THE CENTERLINE OF THE ROAD, 9.1 METERS (30 FT) WEST OF THE CENTERLINE OF A NORTH-SOUTH DIRT ROAD, 1.0 METER (3.2 FT) SOUTHWEST OF THE NORTHEAST CORNER OF THE PAD, 0.7 METER (2.2 FT) SOUTH OF THE NORTH EDGE OF THE PAD.
ABOUT LEVEL WITH THE ROAD.
8.8 METERS SOUTH FROM A WITNESS POST.

ACRN= ********** BENCH MARK DESCRIPTION **********
DESIGNATION--Y 474 STATE--AZ COUNTY--MARICOPA
QUAD-- GSN-- LINE-- AREA--
LOCATED FROM THE CITY OR TOWN OF--PHOENIX
MONUMENT BY--NGS YR--1981 CP--BWM MARK TYPE--BM DISK
SPECIFIC SETTING--STEEL POWER POLE FOUNDATION MONUMENTATION CODE-
STAMPING--Y 474 1981 OTHER CONTROL--
LATITUDE = 334008N LONGITUDE = 1120802W
********** ORIGINAL DESCRIPTION **********

21.4 KM (13.3 MI) NORTH ALONG INTERSTATE HIGHWAY 17 FROM THE INTERSECTION OF GRAND AVENUE AT PHOENIX, THENCE 1.9 KM (1.2 MI) WEST ALONG BEARDSLEY ROAD, AT THE SOUTHEAST CORNER OF THE INTERSECTION OF 35TH AVENUE, AT A 100 FOOT TALL GALVANIZED STEEL POWER LINE POLE, IN TOP OF THE SOUTH EDGE OF THE CONCRETE FOUNDATION, 19.7 METERS (64.6 FT) SOUTH OF THE CENTERLINE OF THE ROAD, 11.3 METERS (37 FT) EAST OF THE CENTERLINE OF THE AVENUE, 0.17 METER (0.6 FT) SOUTH OF THE SOUTH EDGE OF THE POLE.
ABOUT LEVEL WITH THE AVENUE.

Ed Approved 1990 13

CRN= ********** BENCH MARK DESCRIPTION **********
SIGNATION--Z 474 STATE--AZ COUNTY--MARICOPA
AD-- GSN-- LINE-- AREA--
OCATED FROM THE CITY OR TOWN OF--PHOENIX
NUMENT BY--NGS YR--1981 CP--BWM MARK TYPE--BM DISK
ECIFIC SETTING--ROCK OUTCROP MONUMENTATION CODE--A
AMPING--Z 474 1981 OTHER CONTROL--
TITUDE = 333958N LONGITUDE = 1120844W
********** ORIGINAL DESCRIPTION **********

21.4 KM (13.3 MI) NORTH ALONG INTERSTATE HIGHWAY 17 FROM THE INTERSECTION OF GRAND AVENUE AT PHOENIX, THENCE 2.95 KM (1.85 MI) WEST ALONG BEARDSLEY ROAD, THENCE 0.3 KM (0.2 MI) SOUTH ALONG A DIRT ROAD, IN TOP OF A ROCK OUTCROP ON THE SOUTH SIDE OF A LARGE CUT IN THE NORTH SIDE OF A BOULDER COVERED MOUNTAIN, 22. METERS (72 FT) EAST OF THE WEST END OF THE CUT, 46.7 METERS (153 FT) WEST OF THE EAST EDGE OF THE HORIZONTAL CUT, 14.3 METERS (47 FT) SOUTH OF THE NORTH EDGE OF THE HORIZONTAL CUT.
7.5 METERS ABOVE THE DESERT FLOOR.
1.5 METERS WEST FROM A WITNESS POST.

RN= ********** BENCH MARK DESCRIPTION **********
SIGNATION--A 475 STATE--AZ COUNTY--MARICOPA
AD-- GSN-- LINE-- AREA--
OCATED FROM THE CITY OR TOWN OF--PHOENIX
NUMENT BY--NGS YR--1981 CP--BWM MARK TYPE--FLANGE-ENCASED ROD
ECIFIC SETTING--STAINLESS STEEL ROD MONUMENTATION CODE--B
AMPING--A 475 1981 OTHER CONTROL--
ITUDE = 334009N LONGITUDE = 1120978W
********** ORIGINAL DESCRIPTION **********

21.4 KM (13.3 MI) NORTH ALONG INTERSTATE HIGHWAY 17 FROM THE INTERSECTION OF GRAND AVENUE AT PHOENIX, THENCE 4.7 KM (2.9 MI) WEST ALONG BEARDSLEY ROAD, AT A BRICK ENTRANCE TO THE MARICOPA COUNTY PROPERTY AND A 50 FOOT TALL WIND MILL, 0.25 KM (0.15 MI) WEST OF A PAVED ROAD LEADING NORTH, 17.2 METERS (56.5 FT) NORTH OF THE CENTERLINE OF THE ROAD, 3.3 METERS (10.8 FT) EAST OF THE WEST EDGE OF THE BRICK PILLAR WHICH IS ON THE EDGE OF THE ENTRANCE ROAD, 4.0 METERS (13.0 FT) NORTH OF THE SOUTH END OF THE NORTH-SOUTH BRICK WALL, 0.5 METER (1.5 FT) WEST OF THE NORTH-SOUTH BRICK WALL. THE ROD WAS DRIVEN TO REFUSAL AT A DEPTH OF 8 FEET.
A STAINLESS STEEL ROD SET TO THE DEPTH OF 2.4 METERS ENCASED IN A PIPE FLUSH WITH THE GROUND.
0.3 METERS BELOW BEARDSLEY ROAD.

Fd APPROVED

ACRN= ********** BENCH MARK DESCRIPTION **********
DESIGNATION--B 475 STATE--AZ COUNTY--MARICOPA
QUAD-- GSN-- LINE-- AREA--
LOCATED FROM THE CITY OR TOWN OF--PHOENIX
MONUMENT BY--NGS YR--1981 CP--BWM MARK TYPE--FLANGE-ENCASED R
SPECIFIC SETTING--STAINLESS STEEL ROD MONUMENTATION CODE-
STAMPING--B 475 1981 OTHER CONTROL--
LATITUDE = 334007N LONGITUDE = 1121106W
********** ORIGINAL DESCRIPTION **********

21.4 KM (13.3 MI) NORTH ALONG INTERSTATE HIGHWAY 17 FROM THE INTERSECTION OF GRAND AVENUE AT PHOENIX, THENCE 6.7 KM (4.15 MI) WEST ALONG BEARDSLEY ROAD, 0.2 KM (0.1 MI) WEST OF 57TH AVENUE, 11.4 METERS (37.4 FT) SOUTH OF THE CENTERLINE OF THE ROAD, 99.4 METERS (326 FT) EAST OF THE CENTERLINE OF 59TH AVENUE, 1.5 METERS (5 FT) WEST OF THE SECOND POWER LINE POLE EAST OF THE INTERSECTION OF 59TH AVENUE AND IN LINE WITH THE POLES, THE ROD WAS DRIVEN TO REFUSAL AT A DEPTH OF 7 FEET.
A STAINLESS STEEL ROD SET TO THE DEPTH OF 2.1 METERS ENCASED IN A PIPE FLUSH WITH THE GROUND.
0.5 METERS BELOW THE ROAD.
1.4 METERS EAST FROM A WITNESS POST.

ACRN=DV0058 ********** BENCH MARK DESCRIPTION **********
DESIGNATION--E 365 STATE-- COUNTY--
QUAD-- GSN-- LINE-- AREA--
LOCATED IN THE CITY OR TOWN OF--
MONUMENT BY-- YR-- CP-- MARK TYPE--BM DISK
RECOVERY BY--NGS YR--1981 CP--BWM CONDITION--OTHER
SPECIFIC SETTING--CONCRETE POST MONUMENTATION CODE--
STAMPING--E 365 1967 OTHER CONTROL--
LATITUDE = 334007N LONGITUDE = 1121111W
********** RECOVERY DESCRIPTION **********

THIS BENCH MARK WILL BE DESTROYED AFTER THIS SURVEY BY THIS PARTY.

LEVEL LINE ADJUSTMENT PROGRAM VERSION 2, MODIFICATION 0, DATED 12 APRIL 1974

PROJECT ADJ OF NGS PHX LEVELING NUMBER OF ADJUSTMENTS 2
NUMBER OF UNKNOWNS = 276 NUMBER OF EQUATIONS = 292

STA. NAME	FIXED ELEV METERS	ADJ ELEV METERS	SIGMA	ADJ ELEV FEET
A-367		390.8899	0.0057	1282.4445
V-365		390.9478	0.0055	1282.6347
R-473		391.8495	0.0053	1285.5929
S-473		386.1386	0.0050	1266.8565
T-473		389.5558	0.0048	1278.0675
H-474		400.9061	0.0041	1315.3060
J-268		414.6109	0.0035	1360.2692
H-268		431.3928	0.0022	1415.3277
J-474		444.7474	0.0013	1459.1421
W-365		397.9978	0.0026	1305.7645
K-474		393.6559	0.0031	1291.5193
Z-365		385.6493	0.0041	1265.2510
L-474		381.1707	0.0046	1250.5576
Z-267		380.1770	0.0051	1247.2974
1247.88		380.1988	0.0051	1247.3689
M-474		380.4162	0.0054	1248.0823
N-474		370.7053	0.0058	1216.2223
R-365		379.2152	0.0060	1244.1418
1243.30		378.7975	0.0064	1242.7714
1243.17		378.9037	0.0064	1243.1198
1242.78	12 st & Cal	378.7946	0.0066	1242.7618
1238.41		377.4246	0.0069	1238.2673
Q-365	central	376.7670	0.0071	1236.1097
P-474	I 17 Destroyed	376.2104	0.0073	1234.2838
1235.86		376.2560	0.0074	1234.4333
PEOR RM2		379.9022	0.0075	1246.3959
PEORIA		379.9504	0.0075	1246.5540
Q-474		384.1360	0.0076	1260.2862
R-474		389.9373	0.0078	1279.3193
S-474		413.6909	0.0082	1357.2508
T-474		413.5854	0.0082	1356.9048
U-474		413.6421 65	0.0082	1357.0907
T-343 RS		393.2859	0.0078	1290.3055
1-AZDT		397.0166	0.0079	1302.5452
S-343 RS		397.9479	0.0080	1303.9603
2-AZDT		403.0444	0.0081	1322.3216
BELL-2		406.5839	0.0082	1333.9341
BEL-2RM3		406.6594	0.0082	1334.1818
V-474		409.6364	0.0082	1343.9489
Q-343		419.8579	0.0083	1377.4838
W-474		418.1104	0.0083	1371.7505
X-474		416.0425	0.0083	1364.9660
Y-474		411.8486	0.0083	1351.2066
→ Z-474		413.6314	0.0082	1357.0558
A-475		399.7745	0.0082	1311.5935
→ B-475		388.5925	0.0080	1274.9074
E-365		388.5376	0.0081	1274.7270
F-365		382.9008	0.0079	1256.2338
C-475		[illegible]		

COORDINATE FILE:SKCK LENGTH = 400 POINTS; TIME ON FILE: 15 04 16.48
SKUNK CREEK FCDMC FOR C&VL ***** JOB #90047

********** COGO **********

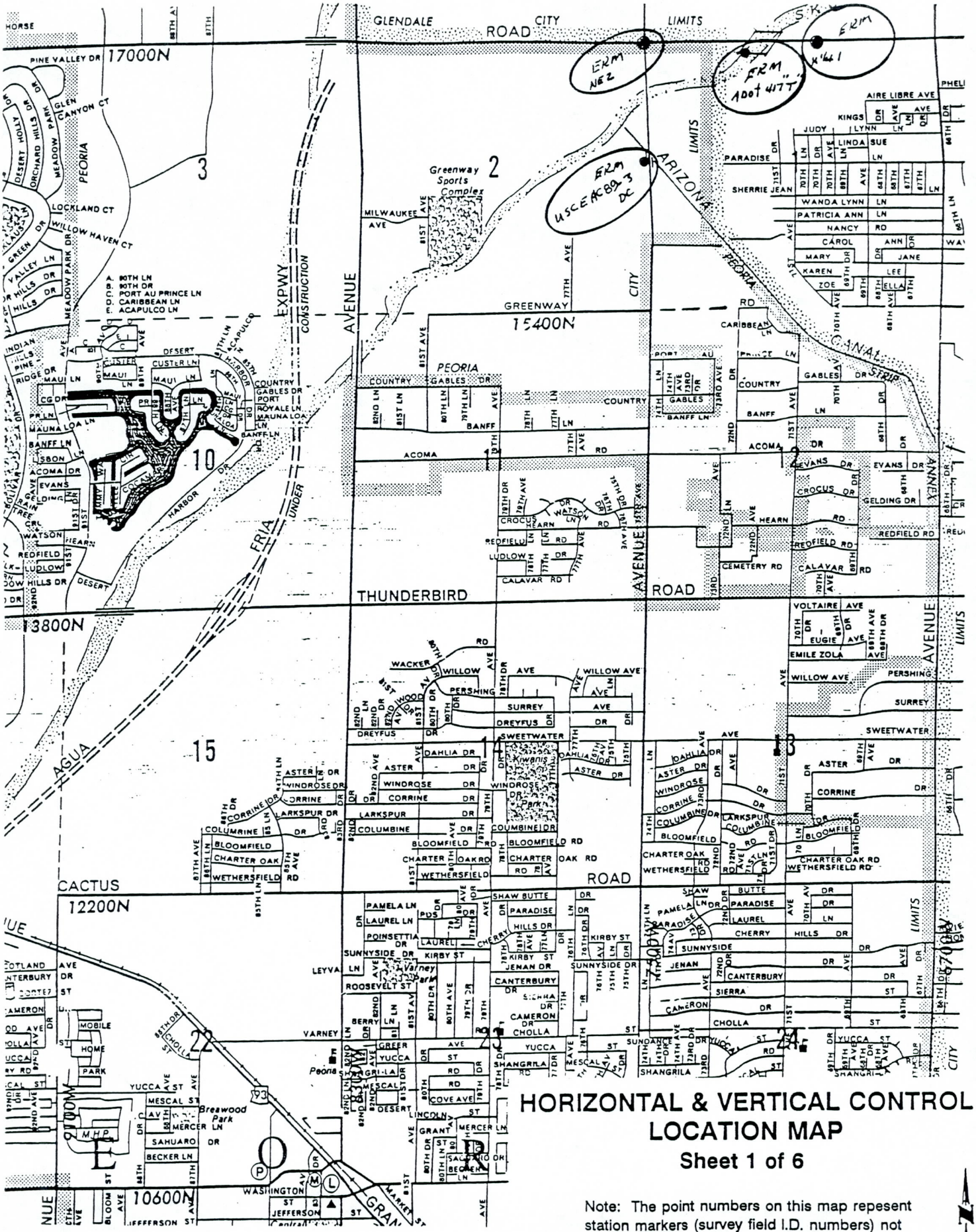
FROM TYPE	BEARING	DISTANCE	TO	NORTHING	EASTING	ELEVATION
LIST						
			1	957,970.92	407,892.42	801
			2	956,057.28	407,893.80	802
			3	958,678.10	406,749.68	803
			6	959,833.35	410,451.64	706
			7	959,835.54	413,093.91	707
			8	962,477.63	413,093.97	708
			10	963,054.97	418,137.32	710
			11	965,668.31	418,170.51	711
			13	967,497.80	418,127.28	813
			15	965,673.92	420,824.82	715
			16	965,710.98	423,476.66	716
			18	968,378.32	428,618.05	718
			19	968,398.62	431,267.20	719
			20	971,002.13	425,972.60	720
			21	971,025.56	428,611.25	721
			25	973,986.83	428,084.57	825
			26	974,659.23	429,077.51	826
			27	972,072.55	429,901.70	827
			29	971,022.46	432,578.49	829
			30	979,921.44	433,959.05	830
			31	981,625.94	432,519.68	831
			32	981,836.40	433,839.80	732
			33	981,618.10	435,667.49	833
			35	986,916.04	433,818.14	735
			37	987,002.49	437,686.33	837
			41	991,572.47	438,686.61	841SKNK
			44	996,861.13	439,289.01	744
			46	1,000,408.04	436,922.79	846
			47	999,799.06	440,467.93	847
			84	993,268.62	439,133.59	884
			85	999,180.96	440,315.32	885
			86	992,803.92	438,595.75	886
			87	986,406.37	434,758.40	887
			89	977,948.36	433,936.81	889
			91	969,715.41	430,359.03	HEDPETH
			92	971,212.27	428,085.73	892
			93	971,236.67	424,569.35	893
			94	967,020.46	423,478.70	894
			95	969,645.62	423,325.77	895
			96	966,765.36	420,814.09	896
			97	964,976.25	417,047.86	897
			98	963,173.13	413,983.92	898
			99	958,256.29	407,453.16	899
			101	954,341.62	410,933.80	AC1
			102	980,161.75	439,335.54	ADOBE
			103	957,485.21	407,861.20	3DC

TIME FOR THIS RUN: 0 01 03.55; TOTAL TIME ON FILE: 15 05 20.03
COORDINATES STORED

SECTION III

HORIZONTAL AND VERTICAL CONTROL LOCATION MAPS

CVL

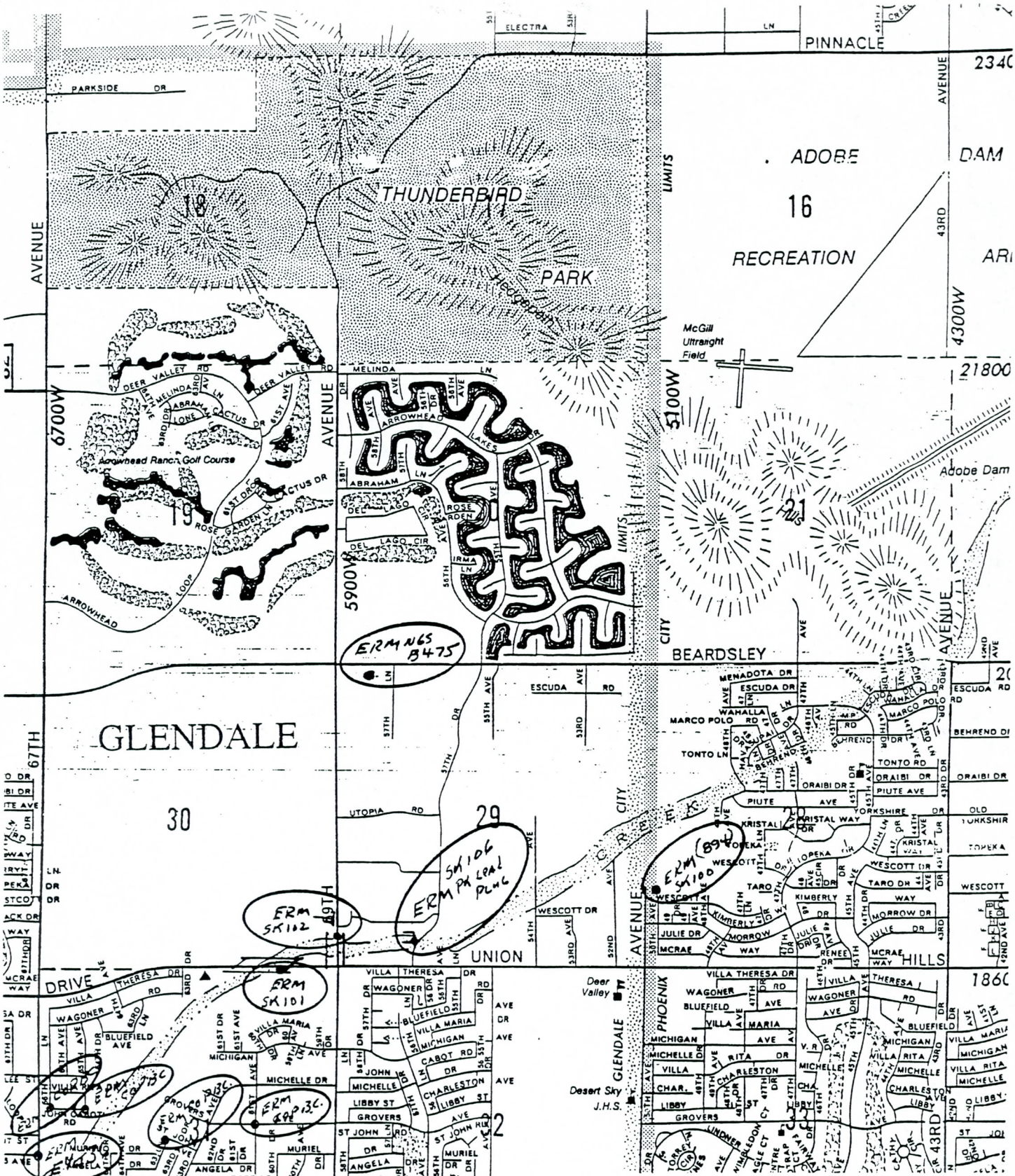


HORIZONTAL & VERTICAL CONTROL LOCATION MAP

Sheet 1 of 6

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.

N.T.S.

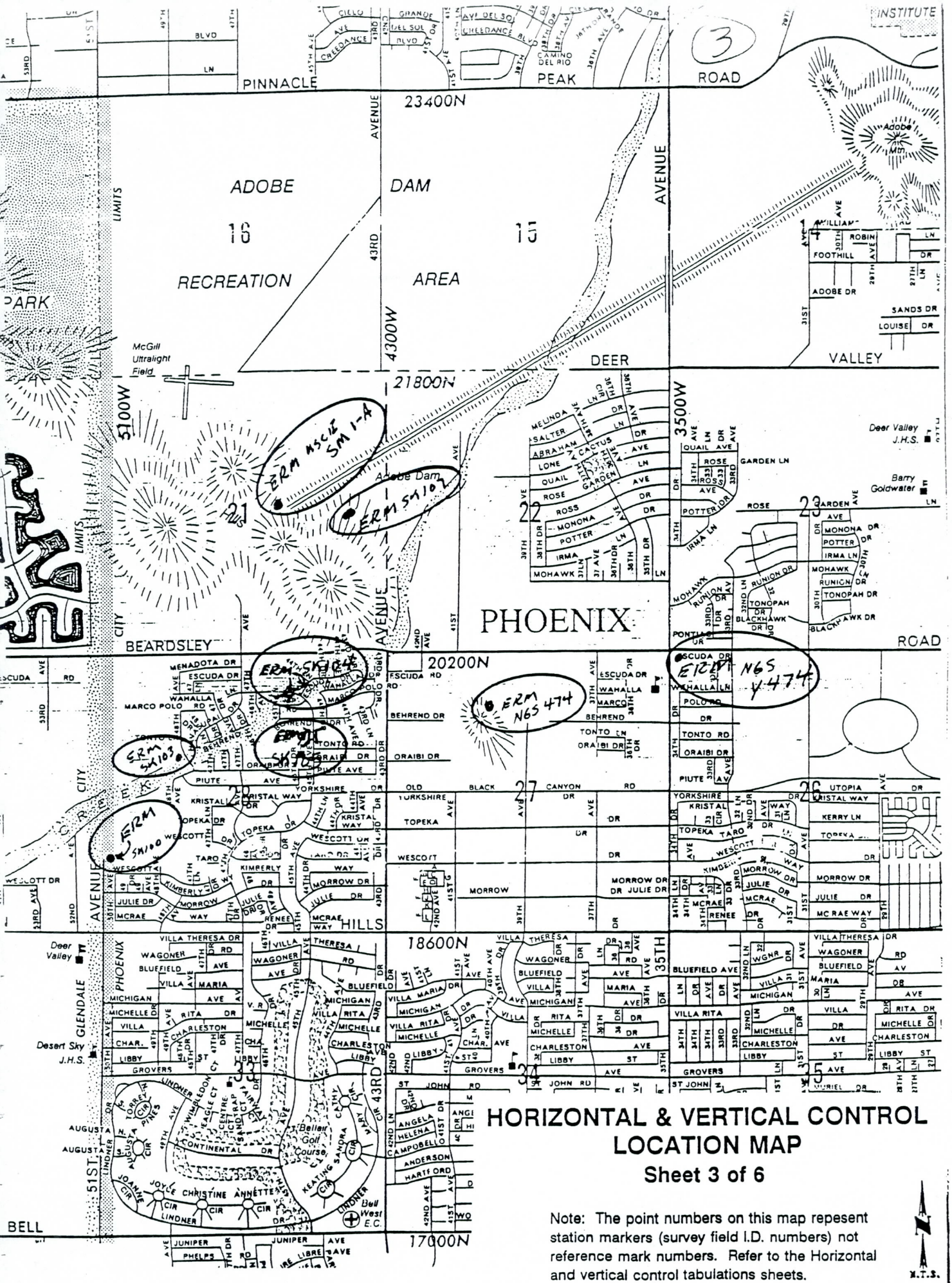


HORIZONTAL & VERTICAL CONTROL LOCATION MAP

Sheet 2 of 6

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.

N.T.S.

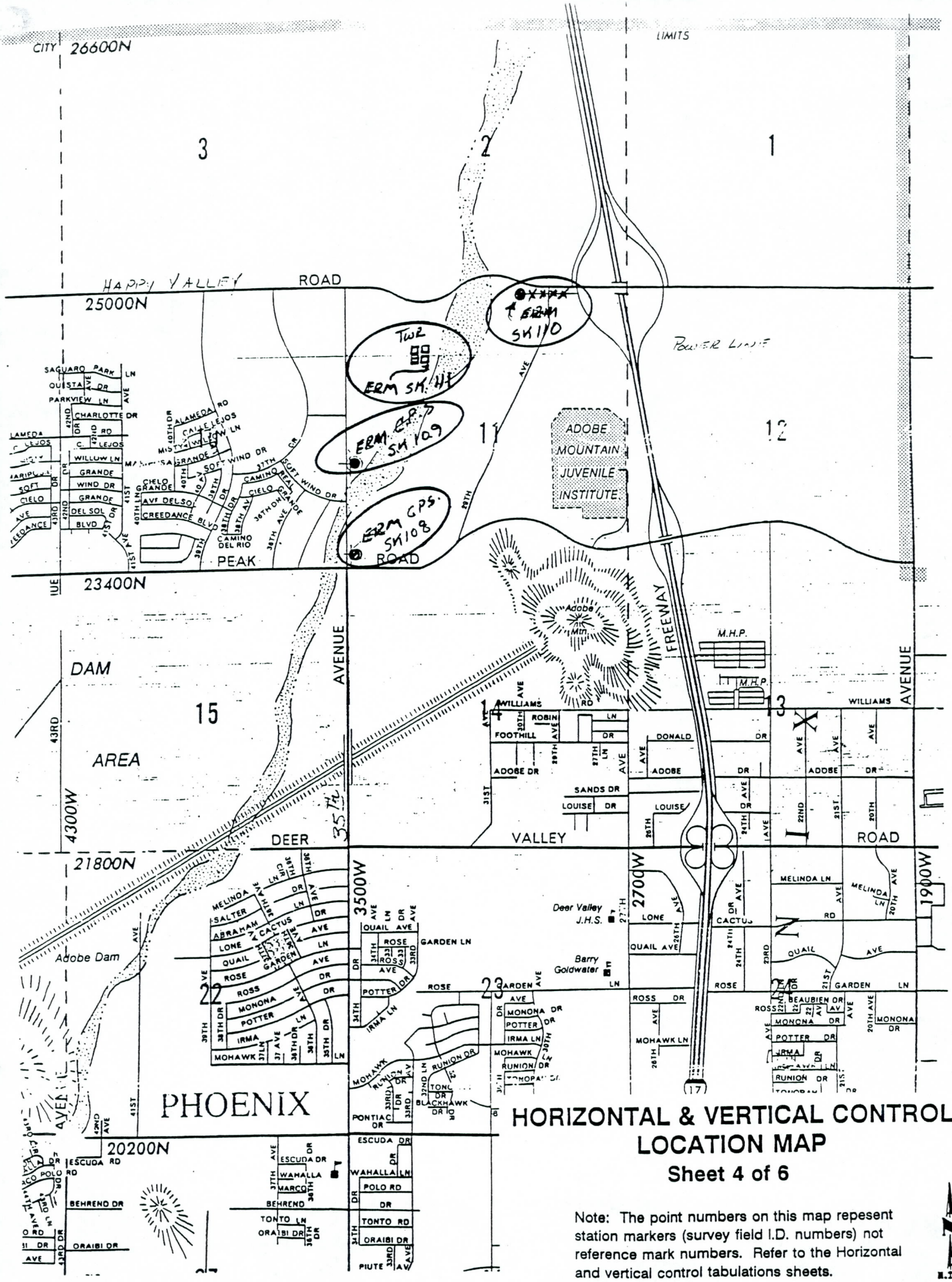


HORIZONTAL & VERTICAL CONTROL LOCATION MAP

Sheet 3 of 6

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.

N.T.S.

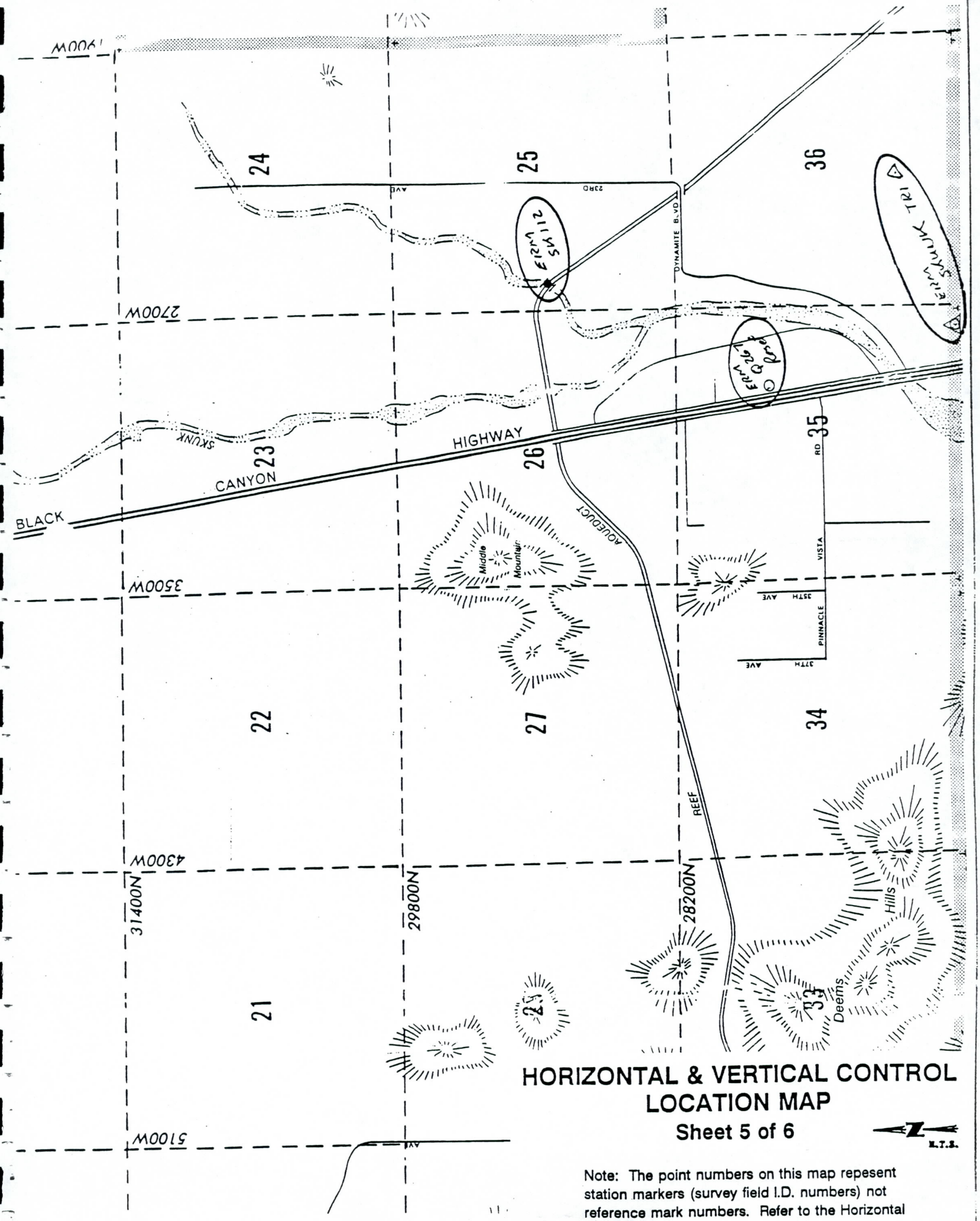


HORIZONTAL & VERTICAL CONTROL LOCATION MAP

Sheet 4 of 6

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.

N.T.S.



HORIZONTAL & VERTICAL CONTROL LOCATION MAP

Sheet 5 of 6

N.T.S.

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.

HORIZONTAL & VERTICAL CONTROL
LOCATION MAP
Sheet 6 of 6
Note: The point numbers on this map represent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal and vertical control tabulations sheets.
SCALE 1:24000
GLENDALE
PHOENIX
ADOBE RECREATION AREA
LITTLE DEER VALLEY
Skunk Creek
Adobe Wash
Reservoir
Water Tank
Well
Trailer Park
Cemetery
Golf Course
Sewage Disposal Plant
Pumping Station
Scale C
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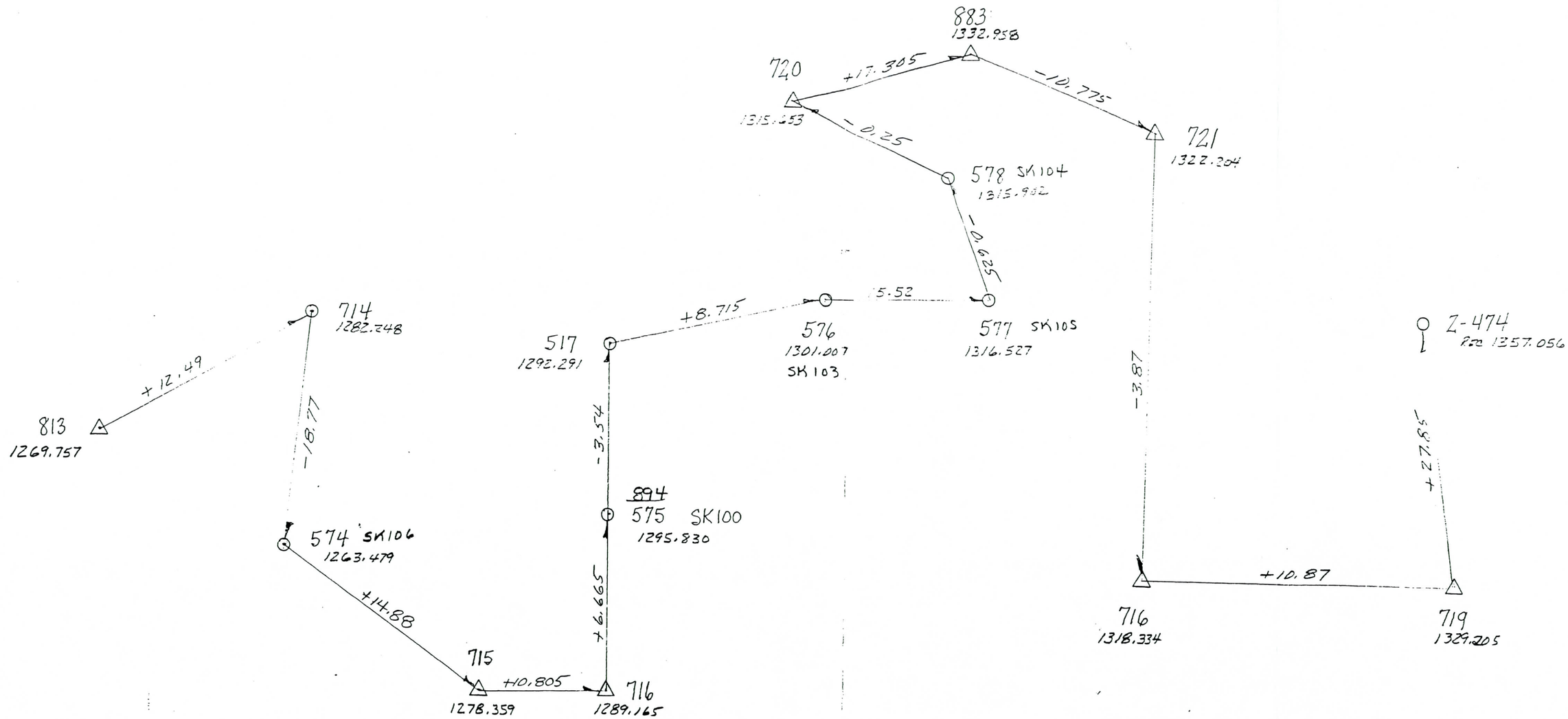
SECTION IV

LEVEL LOOP DIAGRAM

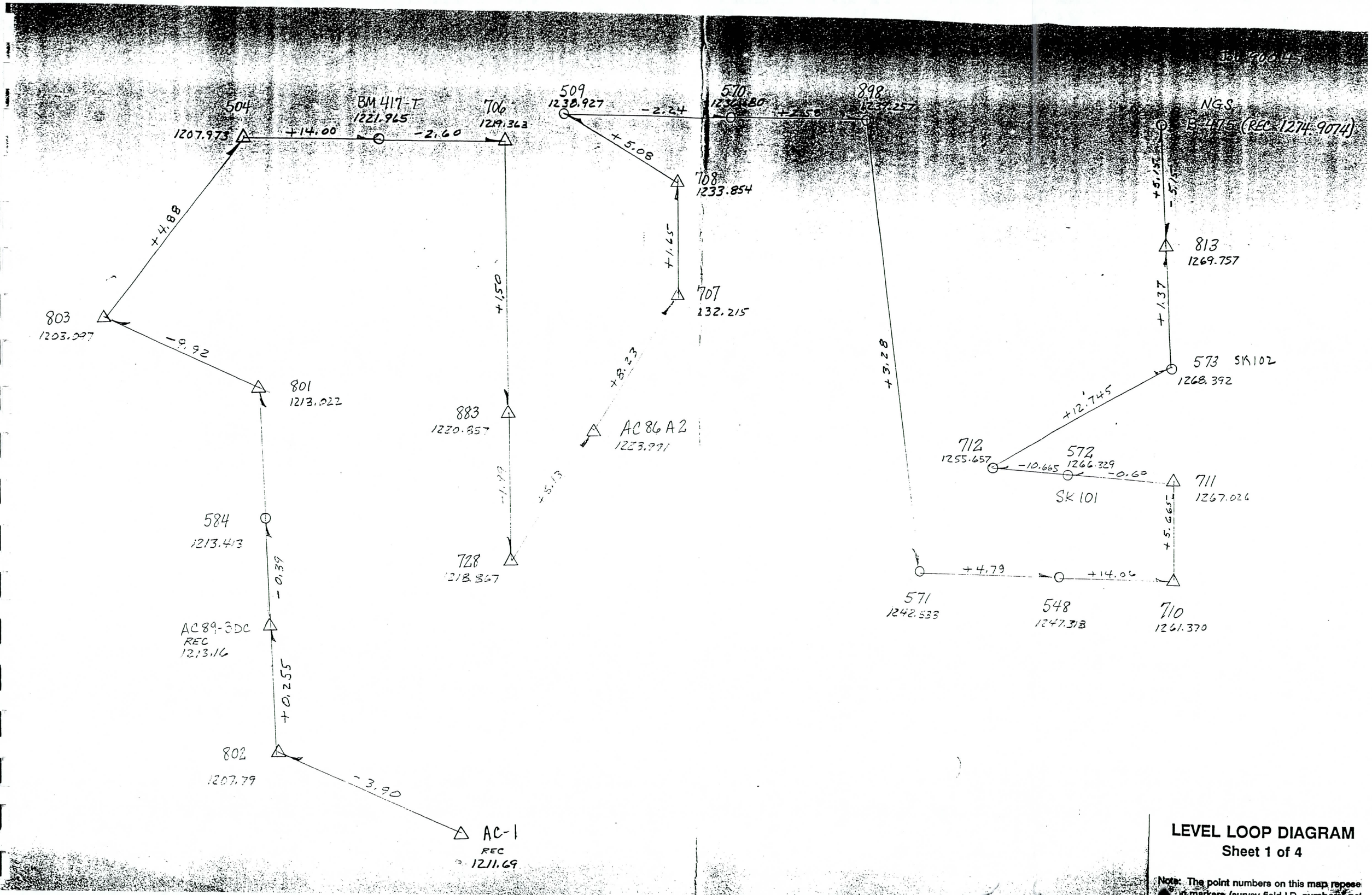
CVL

Job 90047



LEVEL LOOP DIAGRAM
Sheet 2 of 4

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizontal

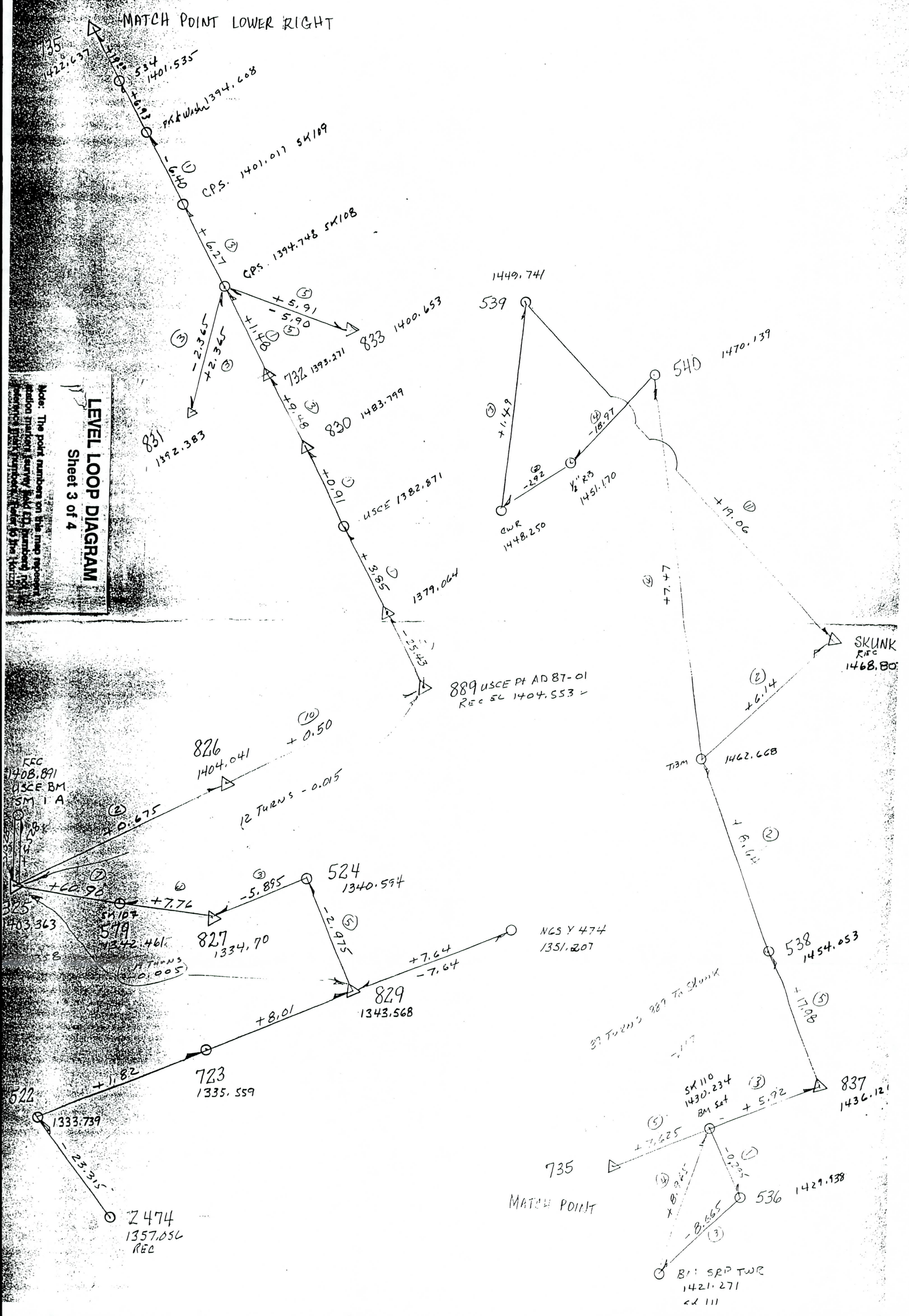


LEVEL LOOP DIAGRAM

Sheet 1 of 4

Note: The point numbers on this map repese
nt markers (survey field I.D. numbers) not

Job 90047

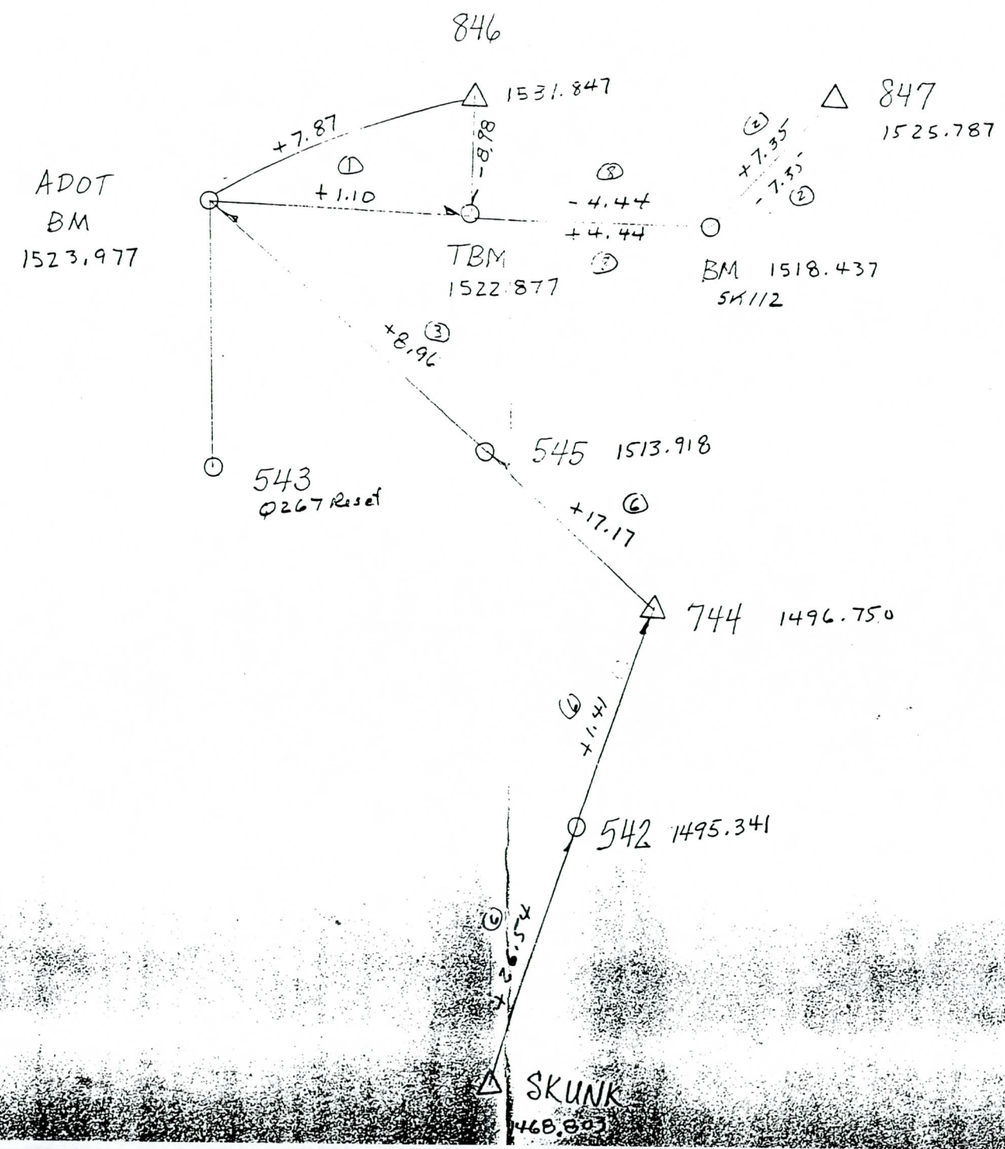


LEVEL LOOP DIAGRAM

Sheet 3 of 4

Note: The point numbers on this map represent station markers (survey field ID number) not benchmarks. Elevations shown are relative to the [illegible]

Job 90047



LEVEL LOOP DIAGRAM

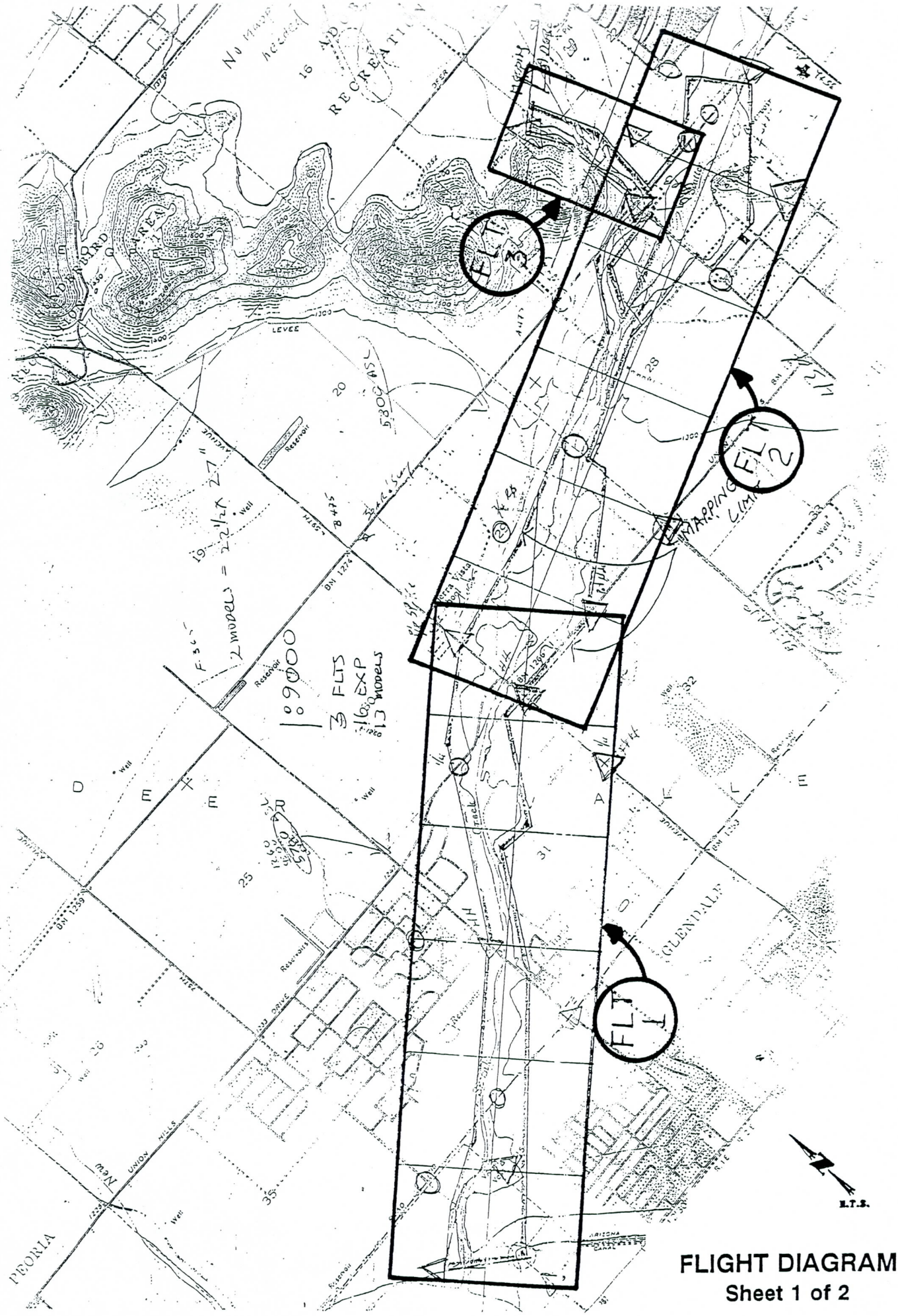
Sheet 4 of 4

Note: The point numbers on this map repesent station markers (survey field I.D. numbers) not reference mark numbers. Refer to the Horizonta

SECTION V

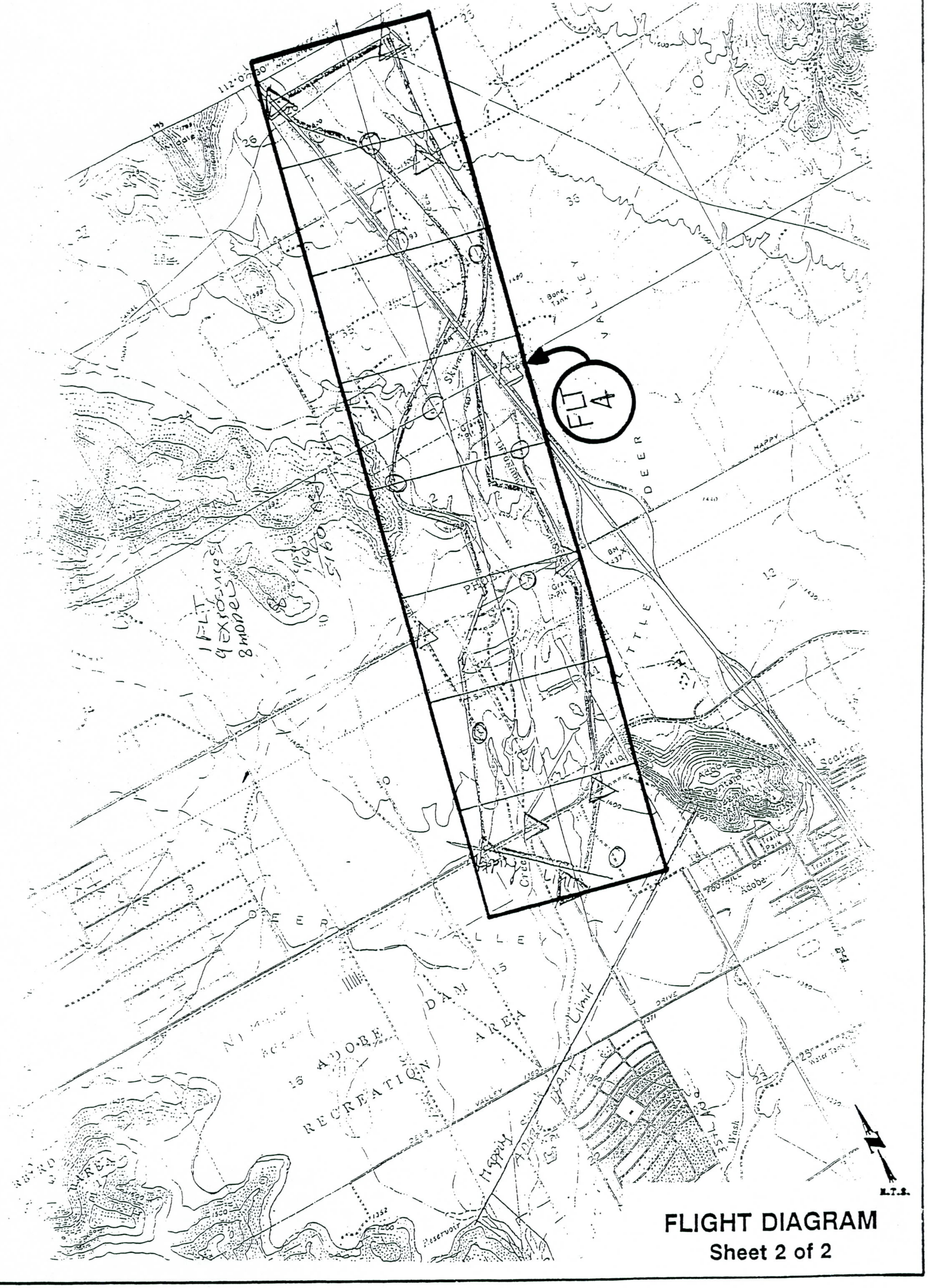
FLIGHT DIAGRAM

CVL



FLIGHT DIAGRAM

Sheet 1 of 2



FLIGHT DIAGRAM

Sheet 2 of 2