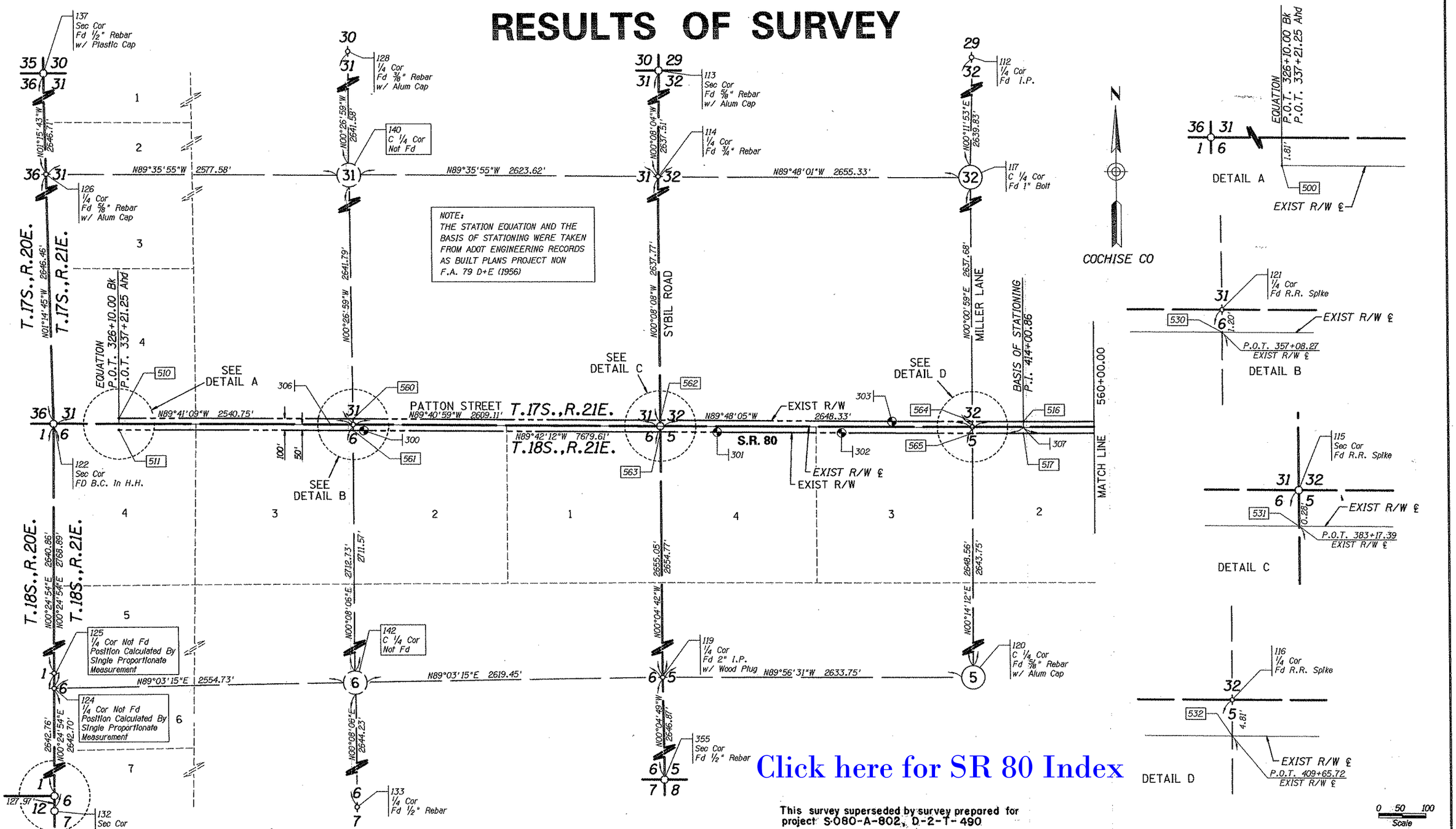
RESULTS OF SURVEY



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This survey superseded by survey prepared for project S-080-A-802, D-2-T-490

LEGEND

302 Set Monument

300 Found Monument

301 Calculated position

NF = Not Found

CHANGE ORDER REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS

DRAWING NO.	D-2-T-485
SURVEY	DEC 2001
DRAWN/DATE	A. GRASS/8-02
ADOT REVIEW	R. CANADY
amec	
ROUTE	SR 80
SECTION	ST. DAVID

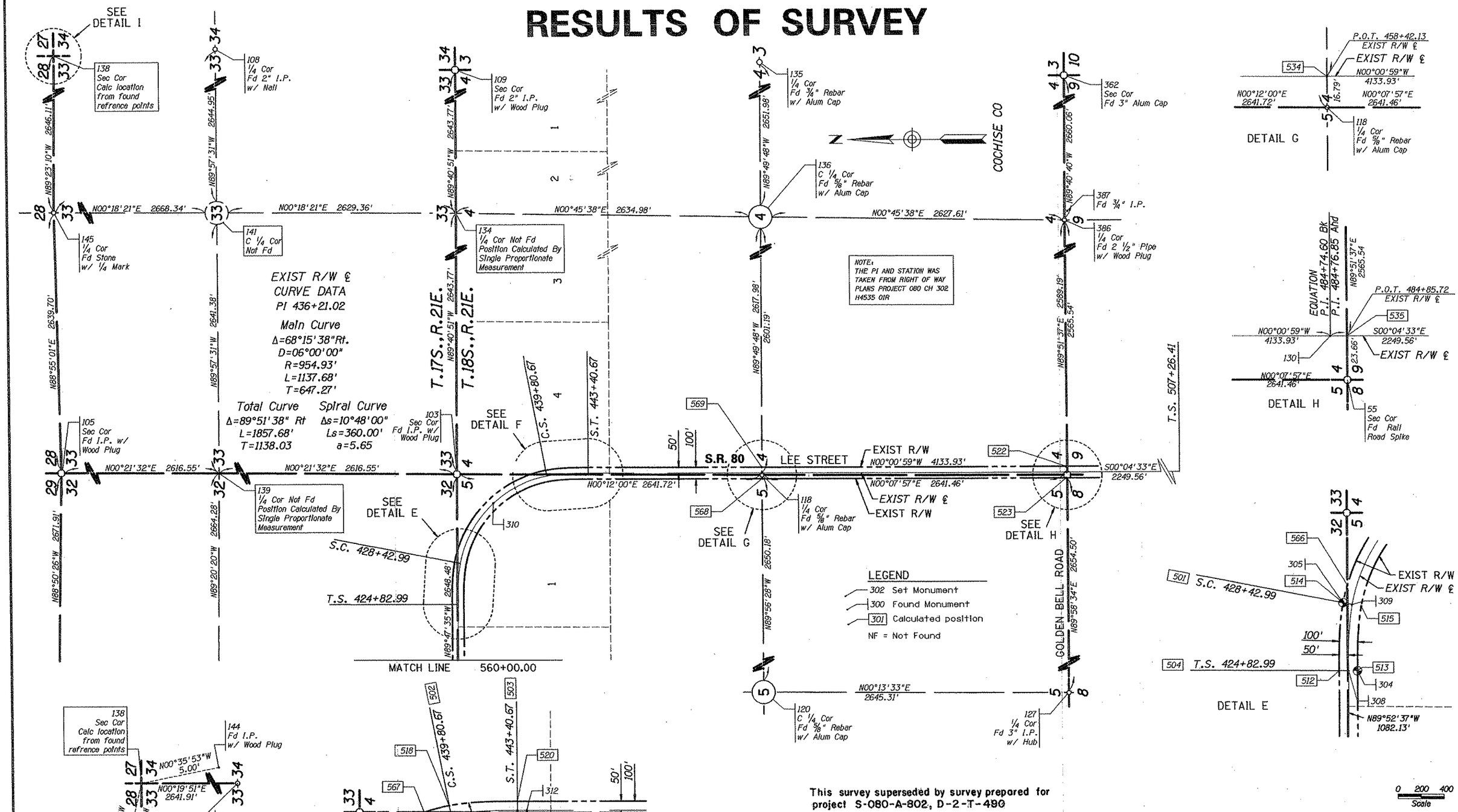
ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
RIGHT OF WAY PLANS SECTION

HIGHWAY	BENSON - DOUGLAS
PROJECT NO.	S 080-A-701
TRACS NO.	080 CH 299 H5113 01R

REGISTERED LAND SURVEYOR 15573 GERALD HUGHES ARIZONA U.S.A.

SHEET RS-1

RESULTS OF SURVEY



This survey superseded by survey prepared for project S-080-A-802, D-2-T-490

CHANGE ORDER REVISIONS			
C.O. NO.	DATE	BY	DESCRIPTION OF REVISIONS

DRAWING NO.	D-2-T-485
SURVEY	DEC 2001
DRAWN/DATE	A. GRASS/8-02
ADOT REVIEW	R. CANADY
amec	
ROUTE	SR 80
SECTION	ST. DAVID

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
RIGHT OF WAY PLANS SECTION

HIGHWAY: BENSON - DOUGLAS
PROJECT NO.: S 080-A-701
TRACS NO.: 080 CH 299 H5113 01R

REGISTERED LAND SURVEYOR 15573 GERALD HUGHES ARIZONA U.S.A.

SHEET RS-2

Click here for SR 80 Index

RESULTS OF SURVEY

Click here for SR 80 Index

SECTION MONUMENTATION

PT.	NORTHING	EASTING	DESCRIPTION
55	324085.21850	685632.35330	RR SPIKE
103	329368.38100	685647.67390	IRON PIPE
105	334601.37320	685680.45790	IRON PIPE
108	331981.06160	690950.39500	IRON PIPE
109	329338.92210	690935.13550	IRON PIPE
112	334655.43960	683009.09780	IRON PIPE
113	334662.37860	680338.46700	ALUM CAP
114	332024.87800	680344.65410	REBAR
115	329387.11780	680350.89540	RR SPIKE
116	329377.94070	682999.21040	RR SPIKE
117	332015.62240	682999.96720	BOLT
118	326726.67260	685638.45750	ALUM CAP
119	326732.06530	680354.52270	OPEN PIPE
120	326729.39950	682988.27460	ALUM CAP
121	329401.55030	677741.82310	RR SPIKE
122	329415.48320	675201.11590	BC IN HH
126	332061.31780	675143.57860	ALUM CAP
127	324084.10700	682977.85000	IRON PIPE
128	334684.76020	677700.36640	ALUM CAP
132	324004.03280	675161.90650	STONE
133	324044.60350	677729.20060	REBAR
135	326711.04330	690908.39060	ALUM CAP
136	326718.90836	688256.42345	ALUM CAP
137	334707.38880	675085.28430	REBAR
145	334651.27460	688319.68990	STONE
355	324085.19400	680358.22790	REBAR
362	324076.57550	690881.55350	ALUM CAP
386	324091.53020	688221.53810	IRON PIPE

CALCULATED POINTS

PT.	NORTHING	EASTING	DESCRIPTION
124	326646.66343	675181.05404	CALC
125	326774.69252	675181.98169	CALC
134	329353.65160	688291.40470	CALC
138	334622.92530	690965.64920	CALC
139	331984.87710	685664.06590	CALC
140	332043.25920	677721.09390	CALC
141	331982.97060	688305.44320	CALC
142	326688.83022	677735.43115	CALC
148	324132.00190	675162.83371	CALC
500	329410.63670	675754.82210	POT 326+10.00 BK= POT 337+21.25 AHD
501	329345.22460	684875.13180	SC 428+42.99
502	328586.80090	685632.14760	CS 439+80.67
503	328228.08440	685654.81270	ST 443+40.67
504	329368.55637	684516.45808	TS 424+82.99
510	329460.63610	675755.08100	CALC
511	329360.63740	675754.56330	CALC
512	329418.55630	684516.56540	CALC
513	329318.55650	684516.35080	CALC
514	329394.31880	684884.60630	CALC
515	329296.13050	684865.65740	CALC
516	329420.87780	683434.51230	CALC
517	329320.87840	683434.14610	CALC
518	328596.18400	685681.25920	CALC
519	328577.41770	685583.03590	CALC
520	328228.09870	685704.81270	CALC
521	328228.07000	685604.81270	CALC
522	324094.21720	685706.00000	CALC
523	324094.13660	685606.00000	CALC
530	329400.34960	677741.82030	POT 357+08.27
531	329386.84180	680350.89580	POT 383+17.39
532	329373.13090	682999.19050	POT 409+65.72
534	326726.62280	685655.24390	POT 458+42.13
535	324085.27620	685656.01180	POT 484+85.72
560	329450.35221	677741.44016	CALC
561	329350.34952	677741.70246	CALC
562	329436.84305	680350.77774	CALC
563	329336.84075	680350.96409	CALC
564	329423.13142	682999.22337	CALC
565	329323.13132	682998.98409	CALC
566	329370.78813	684980.79071	CALC
567	328731.58910	685645.45226	CALC
568	326726.70678	685605.24391	CALC
569	326726.47453	685705.24398	CALC

MISCELLANEOUS MONUMENTATION

PT.	NORTHING	EASTING	DESCRIPTION
131	324132.00190	675160.57930	REBAR
143	334622.99070	690960.64960	IRON PIPE
144	334617.92560	690965.70140	IRON PIPE
387	324075.12300	688302.32000	IRON PIPE

GENERAL NOTES

UNITS = INTERNATIONAL FEET = 1 FOOT = 0.3048 METERS EXACTLY

THREE NGS CONTROL STATIONS WERE USED TO ESTABLISH THE CONTROL BASELINE FOR THIS SURVEY AND THEY ARE AS FOLLOWS:

TREES NAD 83 (1992) 31°56.71909" (N) 110°12'48.37996" (W)
GRID COORDINATES N 320,969.6490 E 685,482.8018
CURTIS NAD 83 (1992) 31°51'04.96223" (N) 110°11'56.71636" (W)
GRID COORDINATES N 309,675.6491 E 689,933.7041
FARO NAD 83 (1992) 31°49'04.72811" (N) 110°10'16.23014" (W)
GRID COORDINATES N 297,525.3478 E 698,599.7146

THE ABOVE VALUES WERE ENTERED INTO A TRIMBLE DATA COLLECTOR MODEL TSC1 WITH THE FOLLOWING PARAMETERS SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE 1983
ZONE: ARIZONA EASTERN 0202
DATUM: NORTH AMERICAN 1983 (CONUS) EQUIVALENT TO WGS-84
GEOID MODEL: GEOID99 (CONTINENTAL US)

TRIMBLE 4700 GPS EQUIPMENT WAS USED FOR ALL FIELD SURVEY MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMEDBY TRIMBLE SURVEY OFFICE SOFTWARE. A COMBINED SCALE FACTOR OF 1.00028 AND ORIGIN VALUES OF NO.000, EO.000 AS OBTAINED FROM ADOT WERE USED FOR THE TRANSLATION TO THE SURFACE.

ALL BEARINGS ARE GRID BEARINGS. DISTANCES ARE GROUND DISTANCES AND COORDINATES ARE GROUND COORDINATES.

MONUMENT VERIFICATION AND ACCEPTANCE:

THE MONUMENTATION SHOWN ON THIS "RESULTS OF SURVEY" WAS BASED ON AN OBSERVATION AND EVALUATION OF PHYSICAL CORROBORATING EVIDENCE IN THE FIELD: AND A REVIEW AND ANALYSISOF EXISTING DRAWINGS, PLATS, AND NOTES READILY AVAILABLE AT THE TIME THE SURVEY WAS PREPARED. MANY OF THE MONUMENTS THAT WERE RECOVERED AND SHOWN HEREON WERE SET AT VARIOUS TIMES BY CLEAVE-LUNDGREN & ASSOCIATES. (BOOK 11, PG 48 & BOOK 4, PG 36 COCHISE COUNTY RECORDS). IN MOST CASES, THESE MONUMENTS HAVE BEEN ACCEPTED IN SUBSEQUENT SURVEYS. HOWEVER, ARROW ENGINEERING (BOOK 5, PG 57 & BOOK 8, PG. 38) AND LON CARLSON (BOOK 5, PG. 50) HAVE REJECTED CERTAIN CORNERS IN SECTION 4 (WEST ¼ CORNER, EAST ¼ CORNER SOUTH ¼ CORNER & SOUTHWEST CORNER) AND USED OTHER MONUMENTS OR CALCULATED POSITIONS TO BREAK OUT PARCELS. THIS MAY CREATE CONFLICTS BETWEEN INDIVIDUAL PARCELS IN THAT SECTION.

EXISTING R/W & MONUMENTATION

PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
130	324094.15100	685656.00000	IRON PIPE	484+74.60 BK= 484+76.85 AHD	0.00
306	329401.33700	677551.09620	PK NAIL FLUSH	355+17.55	0.00
307	329370.87810	683434.32920	RR SPIKE	414+00.86	0.00
308	329368.55800	684515.69730	PK NAIL FLUSH	424+82.23	0.00
309	329346.81660	684874.27800	REBAR	428+41.85	1.40 LT
310	329056.47120	685396.55940	16D NAIL FLUSH	434+48.73	1.30 LT
311	328519.79520	685642.66280	MAG NAIL FLUSH	440+48.51	0.01 LT
312	328177.28250	685654.82730	PK NAIL FLUSH	443+91.47	0.00

EXISTING R/W MONUMENTATION

PT.	NORTHING	EASTING	DESCRIPTION	STATION	OFFSET
300	329350.23210	677831.80600	ADOT ANGLE IRON	357+98.52	49.65 RT
301	329334.85130	680832.07130	ADOT ANGLE IRON	387+98.82	49.50 RT
302	329328.63690	681890.81050	ADOT ANGLE IRON	398+57.58	50.23 RT
303	329425.42010	682316.26600	60D NAIL W/ RED WHISKER	402+82.53	48.75 LT
304	329319.26220	684515.65050	ADOT ANGLE IRON	424+82.29	49.30 RT
305	329396.62700	684885.06600	REBAR	428+43.00	52.35 LT

EXISTING R/W LINE

THE FOLLOWING LIST OF POINTS REPRESENTS THE EXISTING RIGHT OF WAY LINE AS DETERMINED BY AN ANALYSIS OF MONUMENTATION FOUND DURING THE COURSE OF THIS SURVEY AND THE FOLLOWING EXISTING DOCUMENTATION:

1) ORIGINAL G.L.O. SURVEY OF T.18S., R.21E. GILA AND SALT RIVER MERIDIAN, FILED 5/9/1882(2296)

2) ORIGINAL G.L.O. SURVEY OF T.17S., R.21E. GILA AND SALT RIVER MERIDIAN, FILED 4/10/1890(2243).

3) ORIGINAL G.L.O. SURVEY OF T.18S., R.20E. GILA AND SALT RIVER MERIDIAN, FILED 3/12/1902(2294).

4) ADOT ENGINEERING RECORDS AS-BUILT PLANS PROJECT NON F.A. 79 D+E (1956).

5) ADOT RIGHT OF WAY STRIP MAP NO. 2-T-357

6) RECORD OF LAND SURVEY, PORTIONS OF SEC 33, T.17S., R.21 E AND PORTIONS OF SEC. 4, T.18S., R.21E., BOOK 4, PG 36 OFFICIAL RECORDS OF COCHISE COUNTY, AZ. RECORDED 5/25/1988.

7) RECORD OF SURVEY, PORTIONS OF SEC. 4, T.18S., R.21E., BOOK 8, PG 38 OFFICIAL RECORDS OF COCHISE COUNTY, AZ, RECORDED 1994.

LEFT SIDE			RIGHT SIDE		
PT.	STATION	OFFSET	PT.	STATION	OFFSET
510	337+21.25	50.00 LT	511	337+21.25	50.00 RT
560	357+07.64	50.00 LT	561	357+08.42	50.00 RT
562	383+17.01	50.00 LT	563	383+17.71	50.00 RT
564	409+65.49	50.00 LT	565	409+65.77	50.00 RT
516	414+00.94	50.00 LT	517	414+00.94	50.00 RT
512	424+82.99	50.00 LT	513	424+82.99	50.00 RT
514	428+42.99	50.00 LT	515	428+42.99	50.00 RT
566	429+37.12	50.00 LT			
567	438+47.47	50.00 LT			
518	439+80.67	50.00 LT	519	439+80.67	50.00 RT
520	443+40.67	50.00 LT	521	443+40.67	50.00 RT
568	458+42.03	50.00 RT	569	458+42.29	50.00 LT
522	484+74.55	50.00 LT	523	484+74.55	50.00 RT

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CHANGE ORDER REVISIONS			
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SURVEY	DEC 2001
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ADOT REVIEW	R. CANADY
amec	
ROUTE	SR 80
SECTION	ST. DAVID

ARIZONA DEPARTMENT OF TRANSPORTATION
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REGISTERED LAND SURVEYOR 15573 GERALD HUGHES ARIZONA U.S.A.

SHEET RS-3