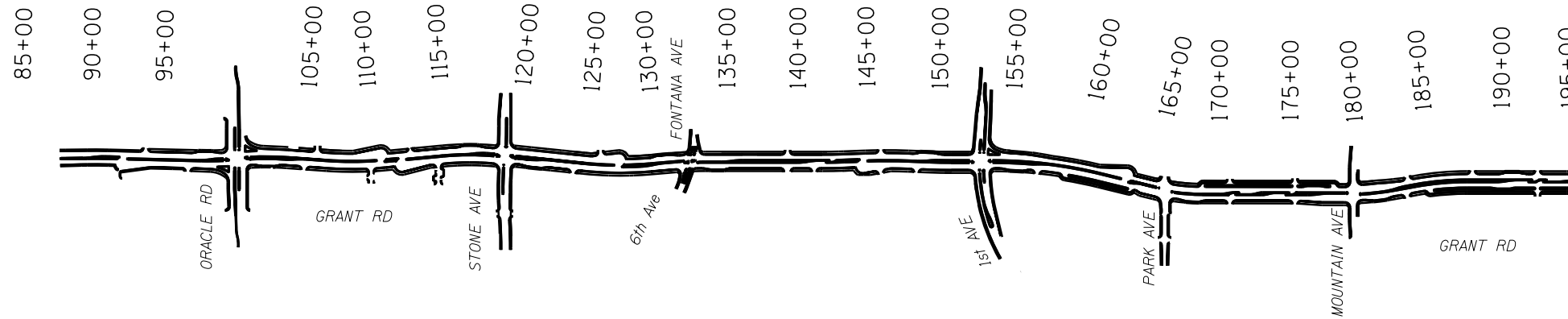


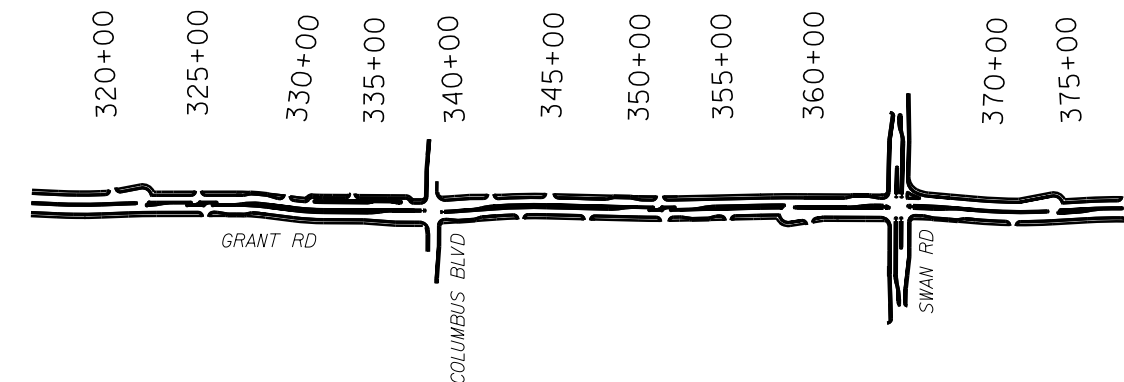
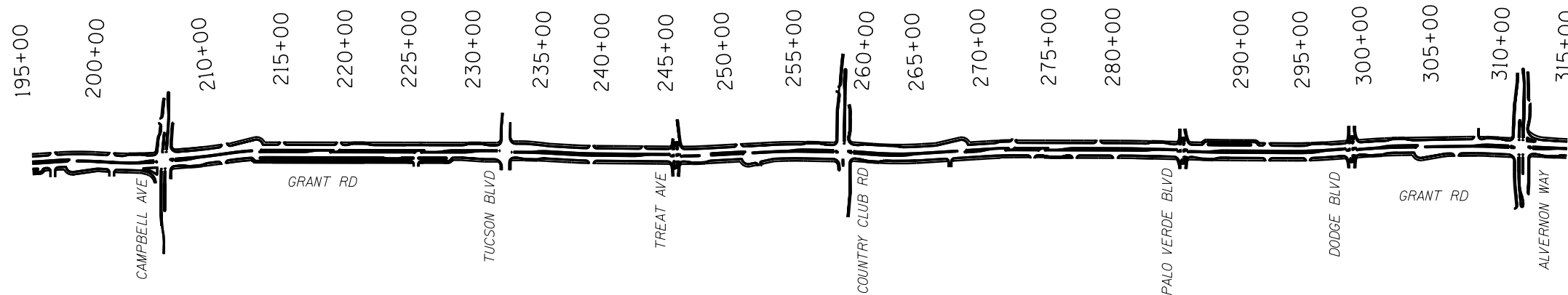
**CITY OF TUCSON, ARIZONA**  
**GRANT ROAD**  
**ORACLE ROAD TO SWAN ROAD**  
**ROADWAY AND DRAINAGE IMPROVEMENTS**

PROPOSED CONSTRUCTION BEGINS WEST OF ORACLE ROAD AND ENDS EAST OF SWAN ROAD. THE 5.0 MILES OF NEW ROADWAY IMPROVEMENTS INCLUDE A SIX LANE DIVIDED ROADWAY, LOCAL ACCESS LANES, MULTI-USE LANES, MEDIANS, DRAINAGE IMPROVEMENTS, AND INDIRECT LEFT TURN BAYS.

SCALE: 1"=500'



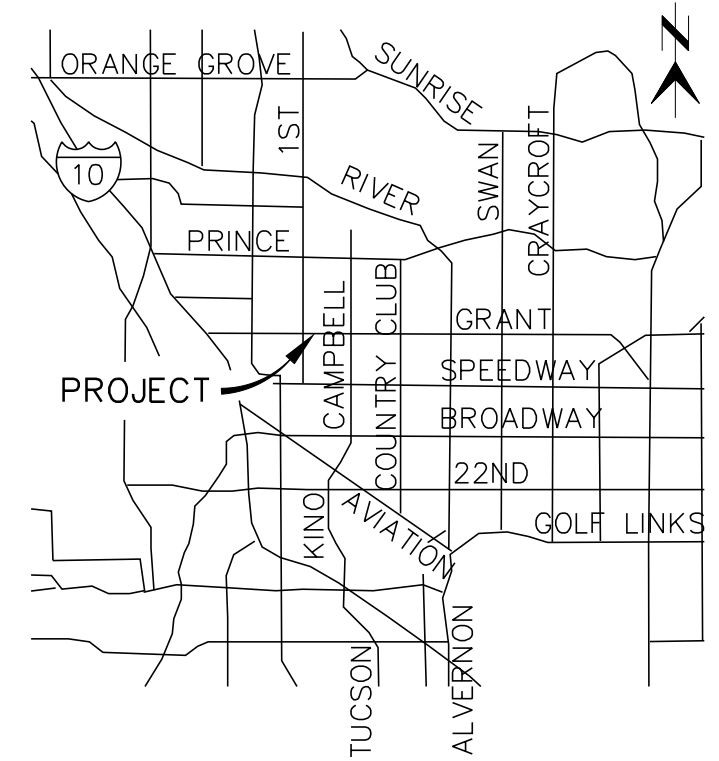
SCALE: 1"=500'



SCALE: 1"=500'

**LOCATION MAP**

Sections 35, 36  
 T-13-S, R-13-E  
 Sections 31, 32, 33, 34, and 35  
 T-13-S, R-14-E  
 Sections 2, 1  
 T-14-S, R-13-E  
 Sections 6, 5, 4, 3, and 2  
 T-14-S, R-14-E  
 Pima County, Arizona  
 Scale: NTS



**INDEX OF SHEETS**

Sheet No.	Sheet Description
1	Cover Sheet
2-17	Geometric Control Sheets
18-27	Typical Roadway Section Sheets
28-193	Roadway Plan and Profile Sheets
194-222	Storm Drain Plan and Profile Sheets
223-234	Utility Plan Sheets
235-290	Traffic Signal Layout Sheets
291	Indirect Left Turn Signing Concept

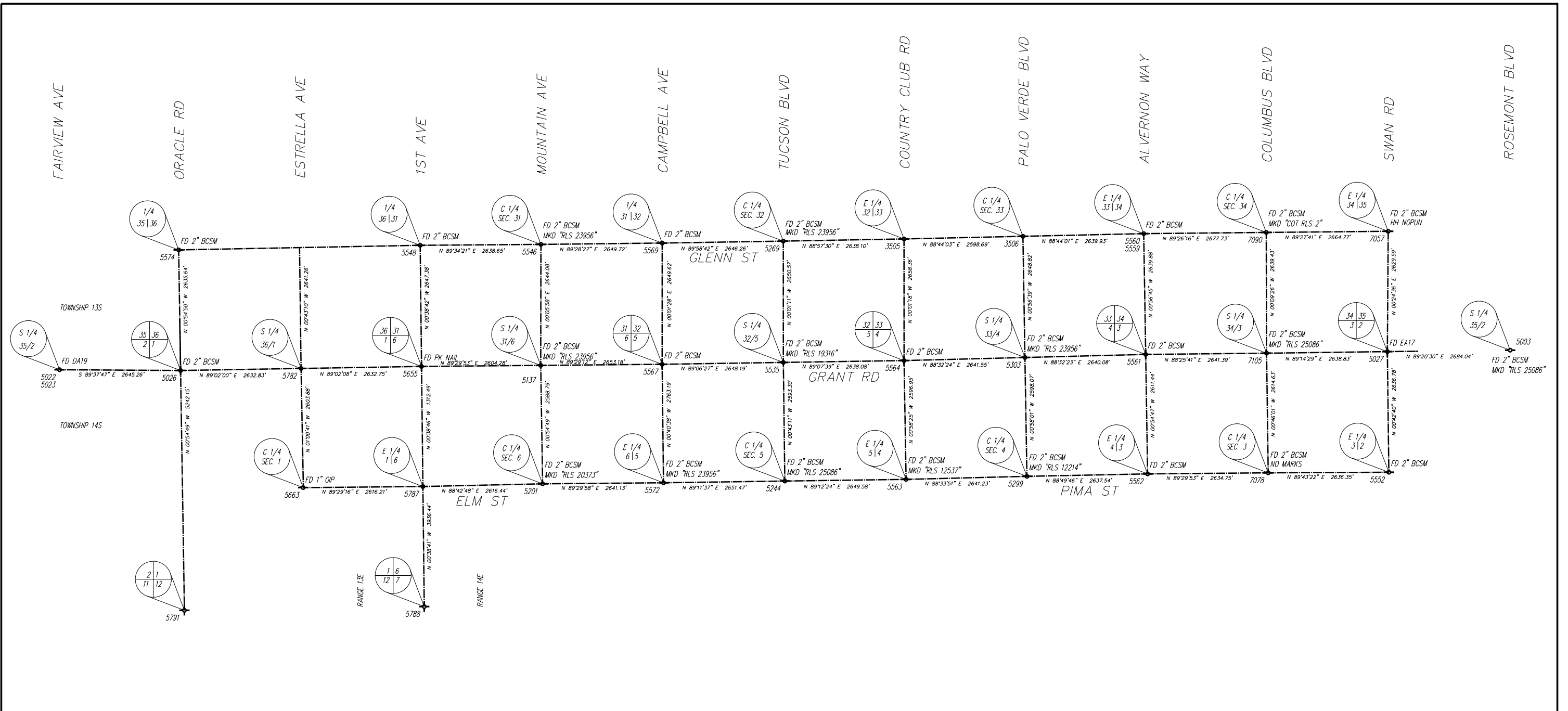


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NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		CV01
COVER SHEET		OF
	DSN. BY <b>M. Huggins</b> 11/09 DRWN. BY <b>M. Huggins</b> 11/09 CHKD. BY <b>C. Colson</b> 11/09	REF. _____ SCALE: _____ PLAN NO. _____
	NO. _____ DATE _____ REVISION _____ BY _____ CHKD. _____ APPR. _____	1 OF 291

PLANS ARE NOT FOR CONSTRUCTION



POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
3499	458698.136	992790.359	0.00'	
3505	458887.751	1005997.797	0.00'	
3506	458945.160	1008595.852	0.00'	
5003	456456.131	1019242.435	2465.67'	FOUND 2" BCSM MKD "RLS 25086"
5022	456029.756	987545.873	2327.83'	FOUND DA19
5023	456029.756	987545.873	2327.83'	FOUND DA19
5026	456012.659	990191.073	2353.10'	FOUND 2" BCSM
5027	456425.296	1016558.572	2459.78'	FOUND EA17
5137	456124.206	998060.088	2401.14'	FOUND 2" BCSM MKD "RLS 23956"
5201	453535.740	998101.369	2426.76'	FOUND 2" BCSM MKD "RLS 20373"
5244	453596.128	1003393.611	2437.25'	FOUND 2" BCSM MKD "RLS 25086"
5269	458839.791	1003360.128	2401.66'	FOUND 2" BCSM MKD "RLS 23956"
5299	453698.998	1008683.340	2450.61'	FOUND 2" BCSM MKD "RLS 12214"
5303	456296.699	1008639.495	2432.25'	FOUND 2" BCSM MKD "RLS 23956"
5535	456189.225	1003361.035	2421.31'	FOUND 2" BCSM MKD "RLS 19316"
5546	458768.285	998064.682	2383.49'	FOUND 2" BCSM MKD "RLS 23956"
5548	458748.599	995426.106	2377.06'	FOUND 2" BCSM
5552	453788.722	1016591.295	2480.69'	FOUND 2" BCSM
5559	459003.451	1011235.123	2426.43'	FOUND 2" BCSM

POINT NO.	NORTHING	EASTING	ELEVATION	POINT DESCRIPTION
5560	459003.507	1011235.141	2426.45'	FOUND 2" BCSM
5561	456363.985	1011278.720	2442.53'	FOUND 2" BCSM
5562	453752.878	1011320.333	2462.28'	FOUND 2" BCSM
5563	453632.819	1006042.940	2456.25'	FOUND 2" BCSM MKD "RLS 12537"
5564	456229.396	1005998.807	2428.02'	FOUND 2" BCSM
5567	456147.981	1000713.163	2421.28'	FOUND 2" BCSM
5569	458797.604	1000714.293	2398.51'	FOUND 2" BCSM
5572	453558.817	1000742.402	2437.67'	FOUND 2" BCSM MKD "RLS 23956"
5574	458647.963	990149.036	2346.68'	FOUND 2" BCSM
5655	456101.391	995455.904	2407.59'	FOUND PK NAIL
5663	453453.604	992869.480	2377.84'	FOUND 1" OIP
5782	456057.080	992823.524	2383.99'	
5787	453476.991	995485.585	2414.26'	
5788	450852.798	995514.999	2416.92'	
5791	450771.171	990274.667	2355.13'	
7057	459054.821	1016577.395	2440.96'	FOUND 2" BCSM HH NOPUN
7078	453775.965	1013954.980	2470.39'	FOUND 2" BCSM NO MARKS
7090	459029.776	1013912.739	2435.17'	FOUND 2" BCSM MKD "COT RLS 2"
7105	456390.357	1013919.977	2452.70'	FOUND 2" BCSM MKD "RLS 25086"

**BASIS OF BEARINGS**

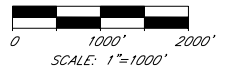
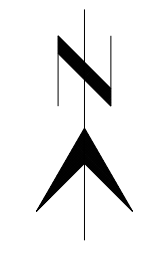
NORTH 89° 06' 12" EAST BETWEEN A BCSM IN CASTING (PUNCH ONLY) MARKING THE CORNER COMMON TO SECTIONS 35 AND 36, TOWNSHIP 13 SOUTH, RANGE 13 EAST, AND SECTIONS 1 AND 2, TOWNSHIP 14 SOUTH, RANGE 13 EAST, SAID POINT BEING DESIGNATED AS POINT E1413A21 BY THE PIMA ASSOCIATION OF GOVERNMENTS ORTHOPHOTO PROJECT, AND BCSM IN CASTING (RLS 20373 W/ SECTION DESIGNATIONS) MARKING THE CORNER COMMON TO SECTIONS 34 AND 35, TOWNSHIP 13 SOUTH, RANGE 14 EAST, AND SECTIONS 2 AND 3, TOWNSHIP 14 SOUTH, RANGE 14 EAST, SAID POINT BEING DESIGNATED AS POINT E1414A17 BY THE PIMA ASSOCIATION OF GOVERNMENTS ORTHOPHOTO PROJECT. THE BEARING OF NORTH 89° 06' 12" EAST BEING CALCULATED USING COORDINATES ESTABLISHED BY SAID PROJECT.

**BASIS OF ELEVATIONS**

AN "X" ON NE CORNER OF CONC. BASE OF STREET LIGHT POLE LOCATED IN FRONT OF #4241 E. GRANT (HUFF PLUMBING), DESIGNATED AS BM \*54A IN C.O.T. FIELD BOOK 1989A1 AT PAGE 3. ELEVATION 2453.17 NAVD 1988.

**LEGEND**

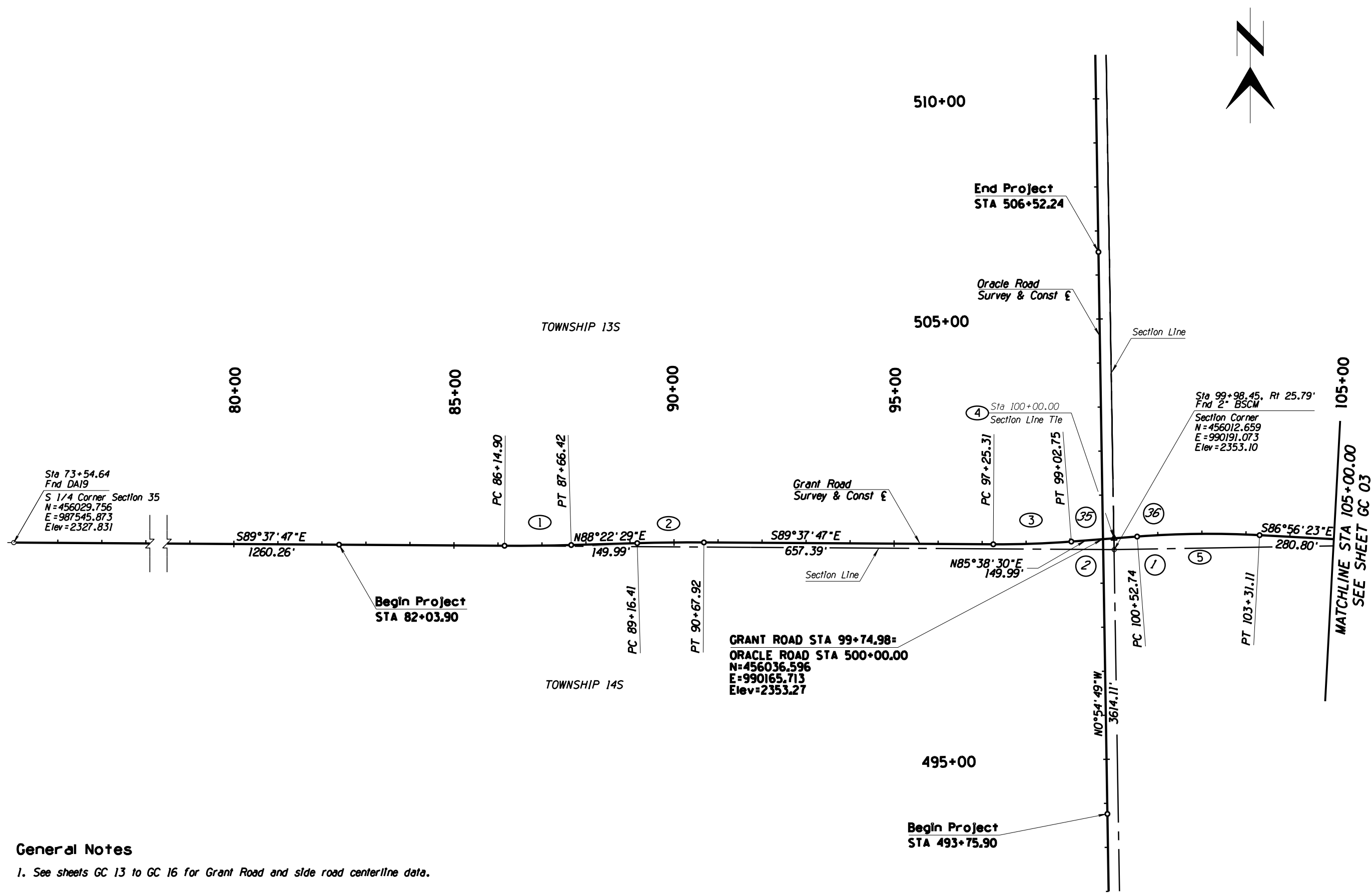
- EXISTING SECTION LINE
- EXISTING QUARTER SECTION MARKER
- EXISTING SECTION CORNER MARKER
- EXISTING SECTION LINE DESIGNATION



NO.	DATE	REVISION	BY	CHKD.	APPR.

PLANS ARE NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC01 OF GC16
GRANT ROAD GEOMETRIC CONTROL				
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: 1"=1000'
	DRWN. BY <b>M. Huggins</b>	11/09	_____	2 OF 291
CHKD. BY <b>S. Ahartz</b>	11/09	PLAN NO. _____	_____	



Sta 73+54.64  
Fnd DA19  
S 1/4 Corner Section 35  
N = 456029.756  
E = 987545.873  
Elev = 2327.831

Sta 99+98.45, Rt 25.79'  
Fnd 2" BSCM  
Section Corner  
N = 456012.659  
E = 990191.073  
Elev = 2353.10

GRANT ROAD STA 99+74.98=  
ORACLE ROAD STA 500+00.00  
N=456036.596  
E=990165.713  
Elev=2353.27

MATCHLINE STA 105+00.00  
SEE SHEET GC 03

**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.



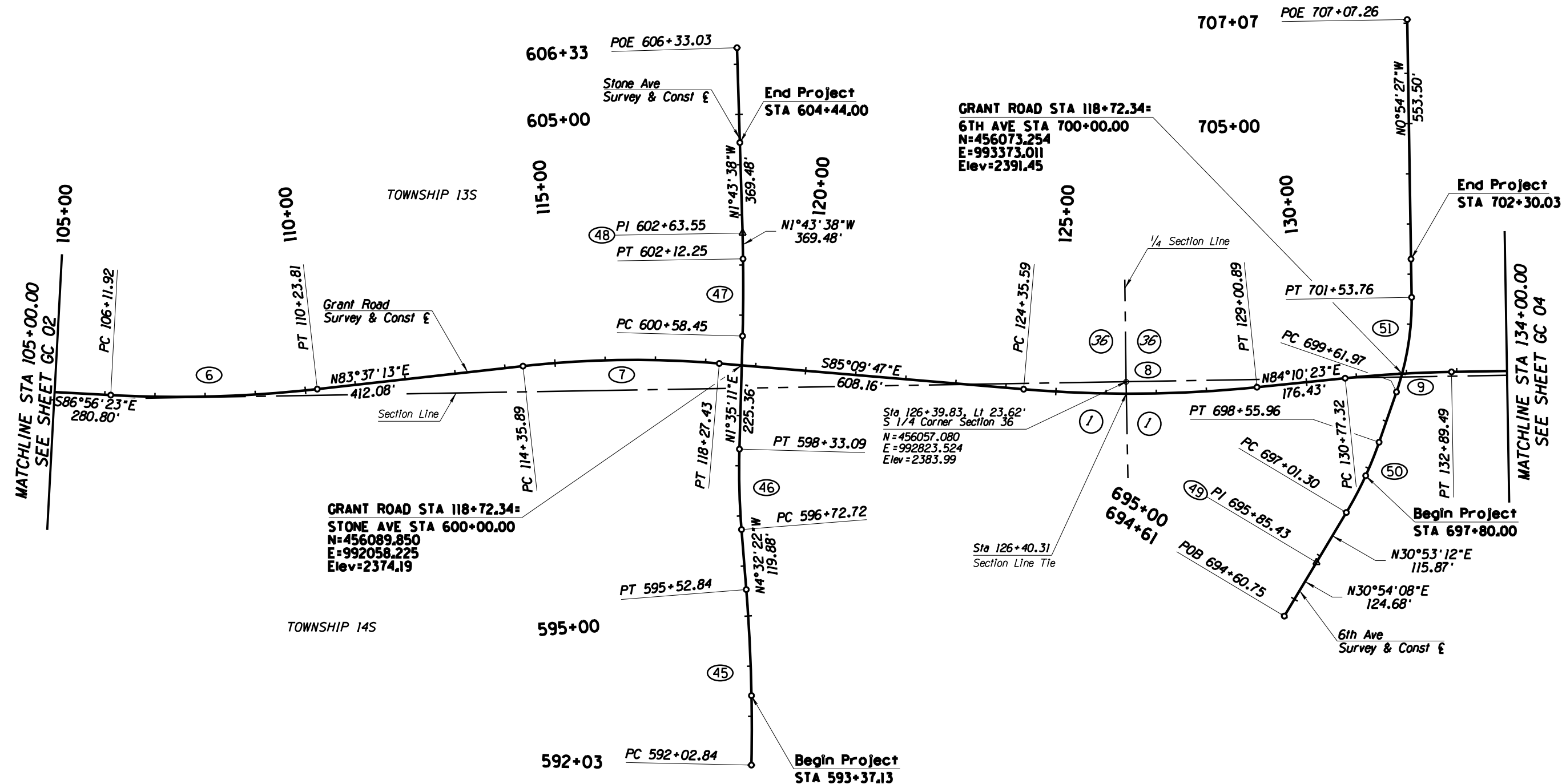
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC02
GRANT ROAD GEOMETRIC CONTROL				OF GC16
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Aharitz</b>	11/09	PLAN NO.	

3 OF 291



**General Notes**

1. See sheet GC 13 to GC 16 for Grant Road and side road centerline data.

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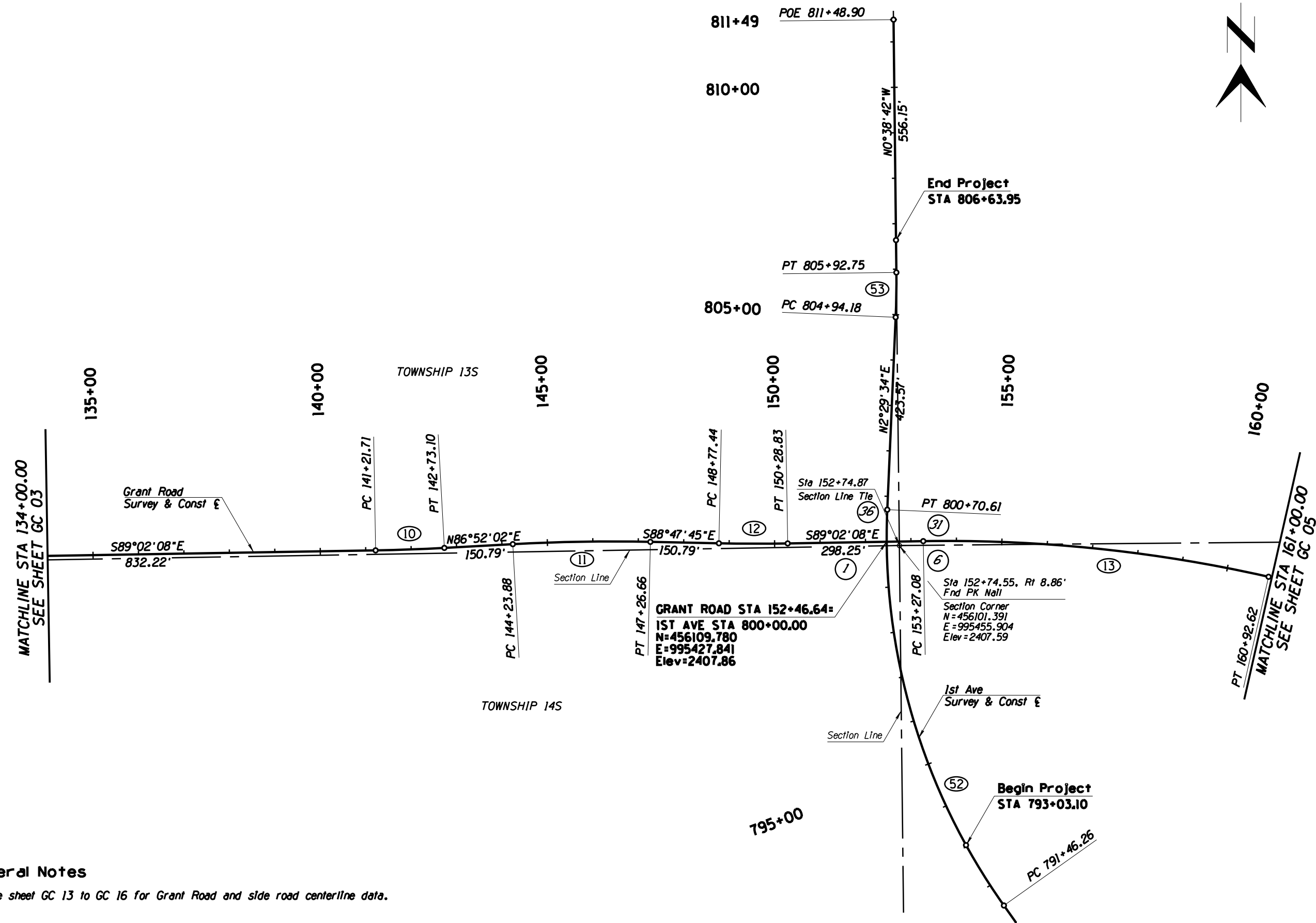
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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC03 OF GC16
GRANT ROAD GEOMETRIC CONTROL				
 CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Ahar'tz</b>	11/09	PLAN NO. _____	

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**General Notes**

1. See sheet GC 13 to GC 16 for Grant Road and side road centerline data.



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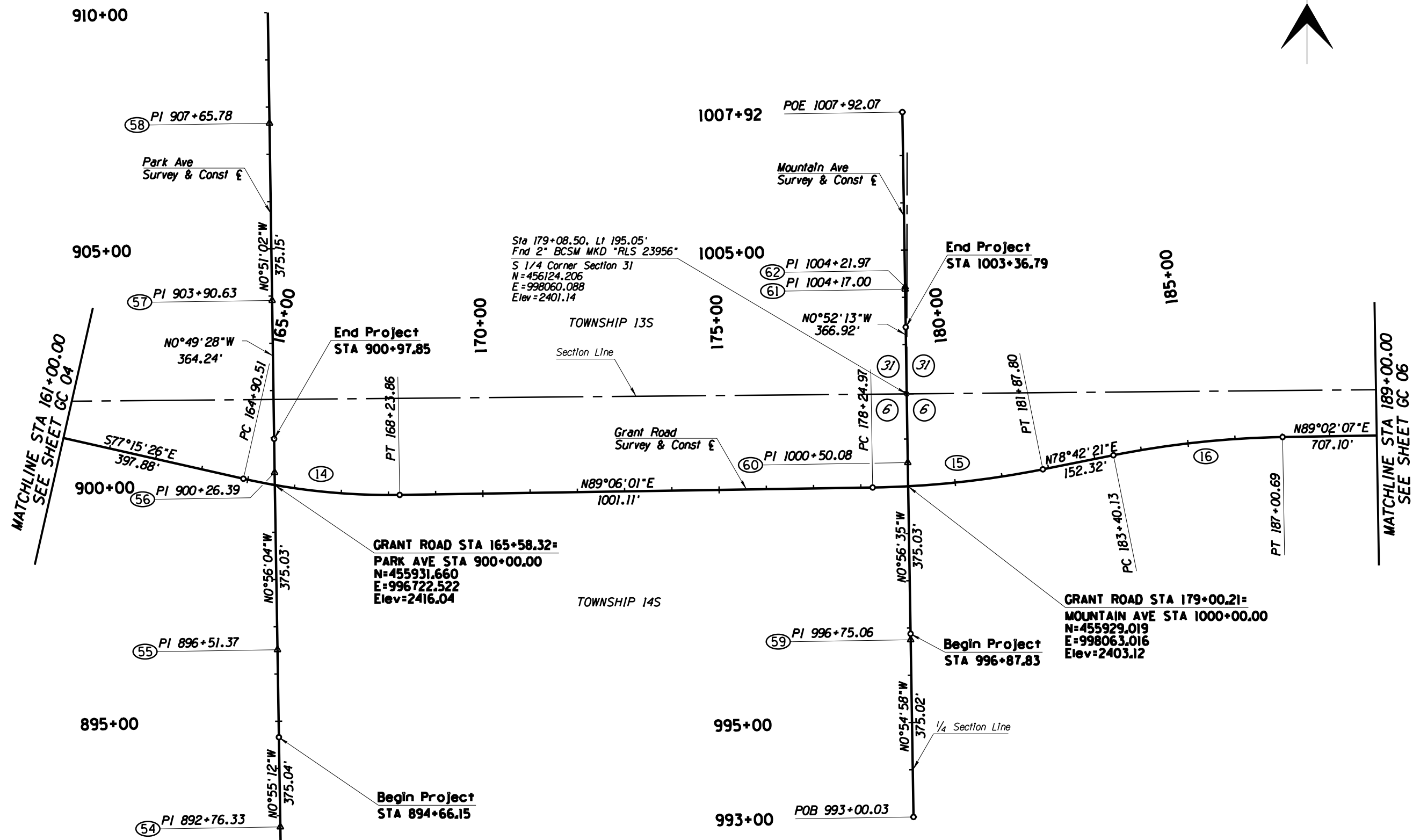
NO.	DATE	REVISION	BY	CHKD.	APPR.

PLANS ARE NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

GRANT ROAD GEOMETRIC CONTROL

	DSON. BY <b>B. Beenken</b> 11/09	REF.	SCALE: 1"=20'	GC04 OF GC16  5 OF 291
	DRWN. BY <b>M. Huggins</b> 11/09	PLAN NO.		
	CHKD. BY <b>S. Ahartz</b> 11/09			



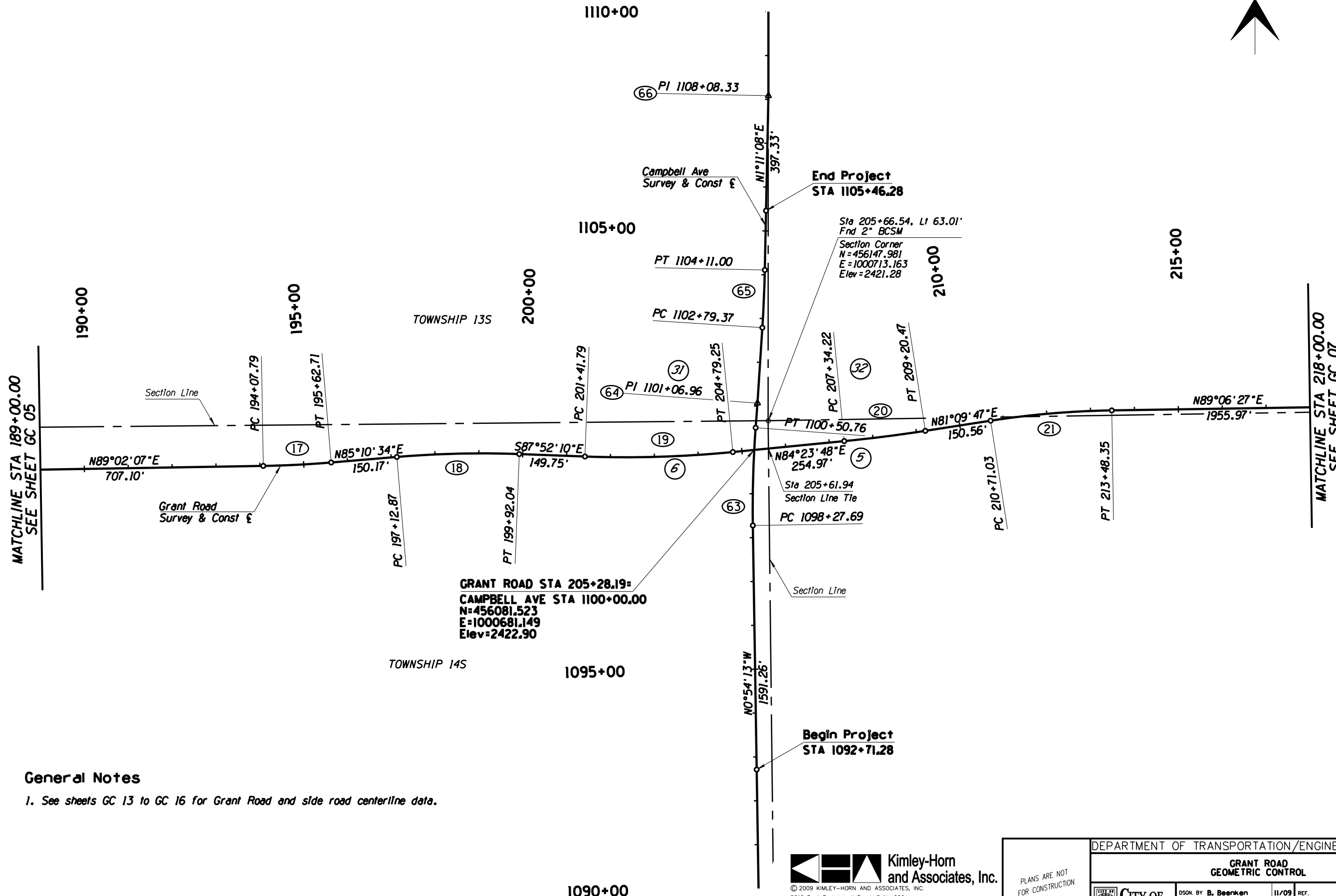
**General Notes**  
 1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC05 OF GC16
<b>GRANT ROAD GEOMETRIC CONTROL</b>				
	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Ahar'tz</b>	11/09	PLAN NO.	
				6 OF 291

NO.	DATE	REVISION	BY	CHKD.	APPR.



MATCHLINE STA 189+00.00  
SEE SHEET GC 05

MATCHLINE STA 218+00.00  
SEE SHEET GC 07

**GRANT ROAD STA 205+28.19 =  
CAMPBELL AVE STA 1100+00.00**  
N=456081.523  
E=1000681.149  
Elev=2422.90

**End Project  
STA 1105+46.28**

**Begin Project  
STA 1092+71.28**

**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.



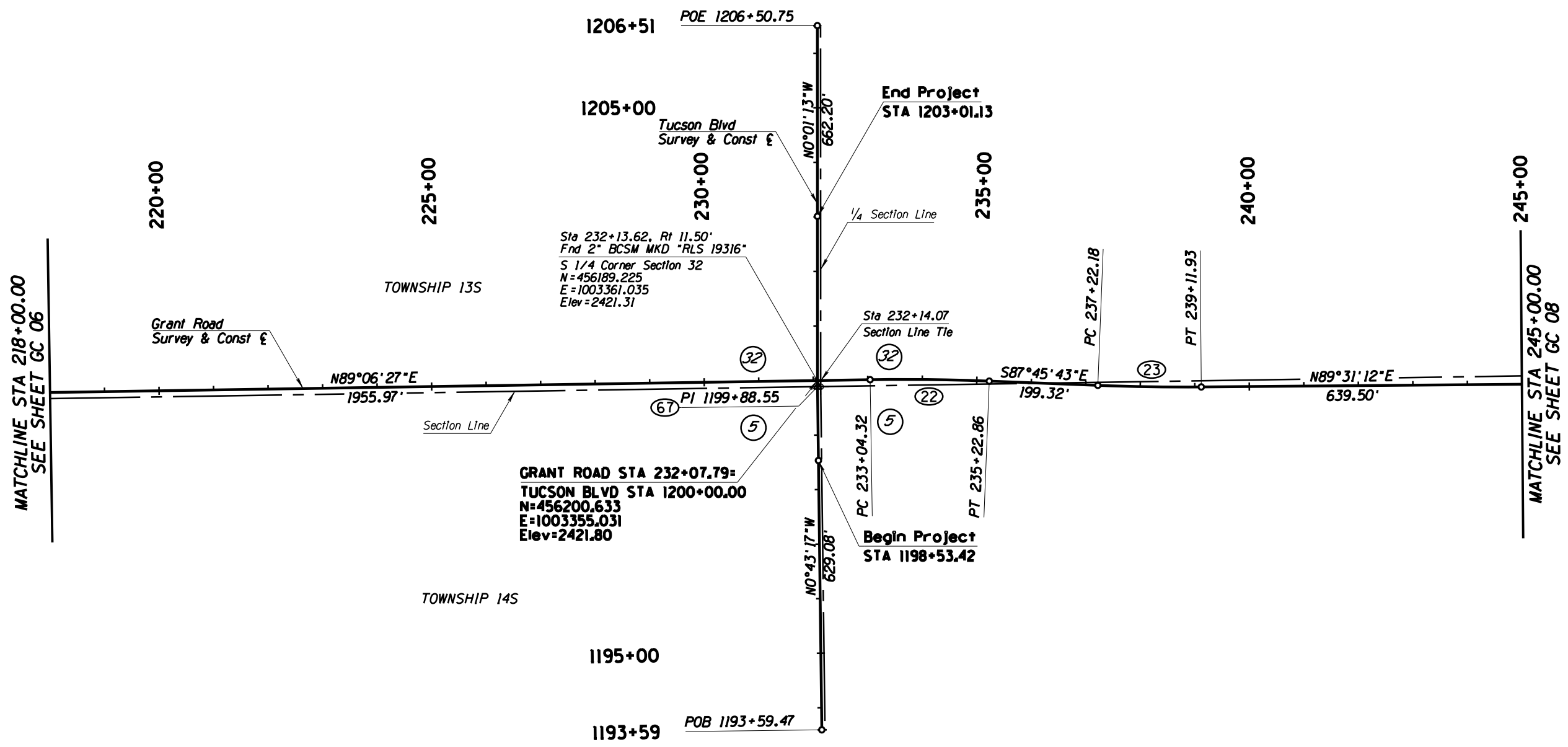
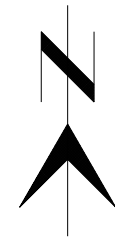
NO.	DATE	REVISION	BY	CHKD.	APPR.

PLANS ARE NOT  
FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION

**GRANT ROAD  
GEOMETRIC CONTROL**

	DSON. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'	GC06 OF GC16  7 OF 291
	DRWN. BY <b>M. Huggins</b>	11/09			
	CHKD. BY <b>S. Aharitz</b>	11/09	PLAN NO.		



**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

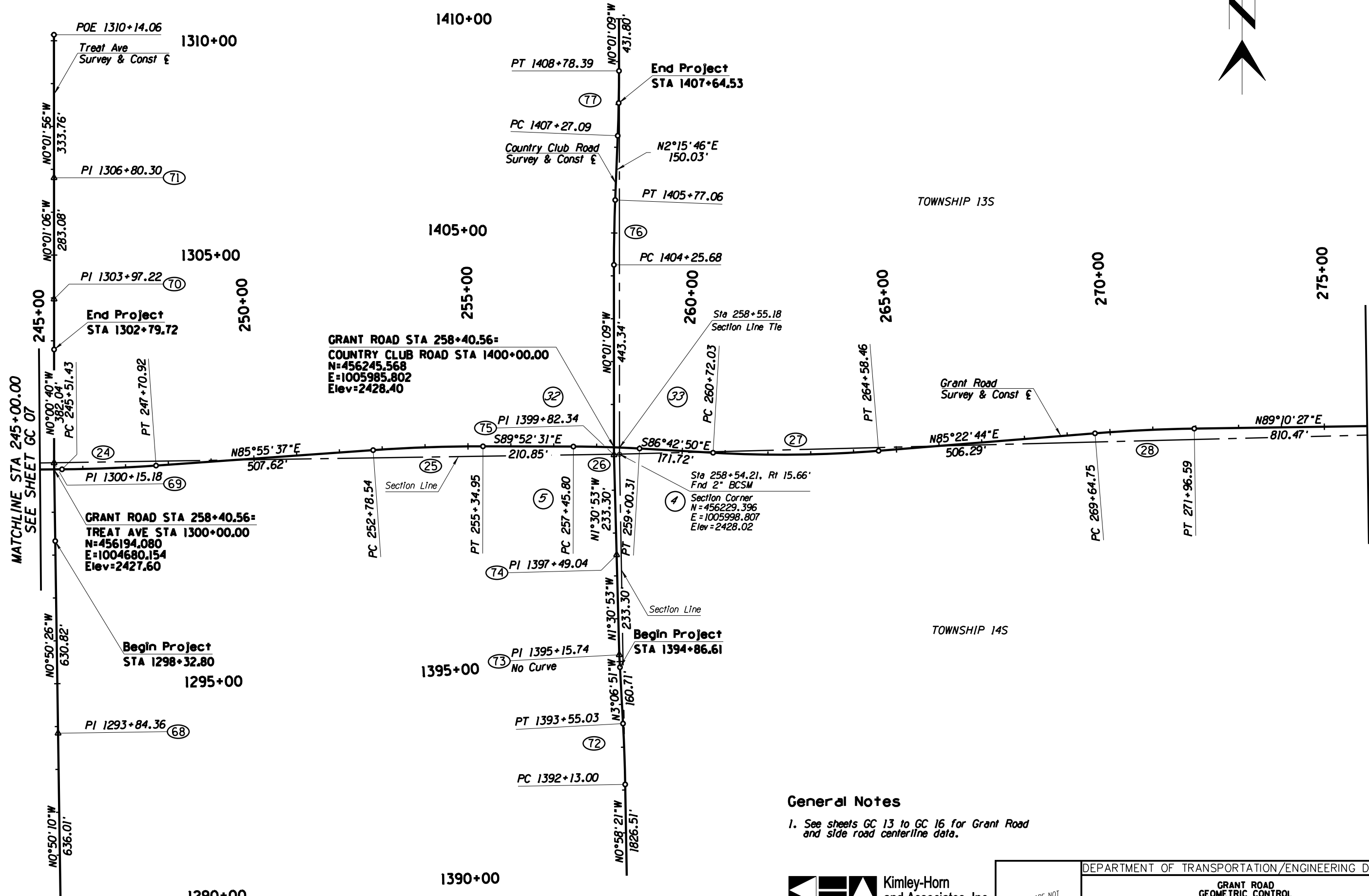


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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC07
GRANT ROAD GEOMETRIC CONTROL				OF GC16
	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Ahartz</b>	11/09	PLAN NO.	
				8 OF 291



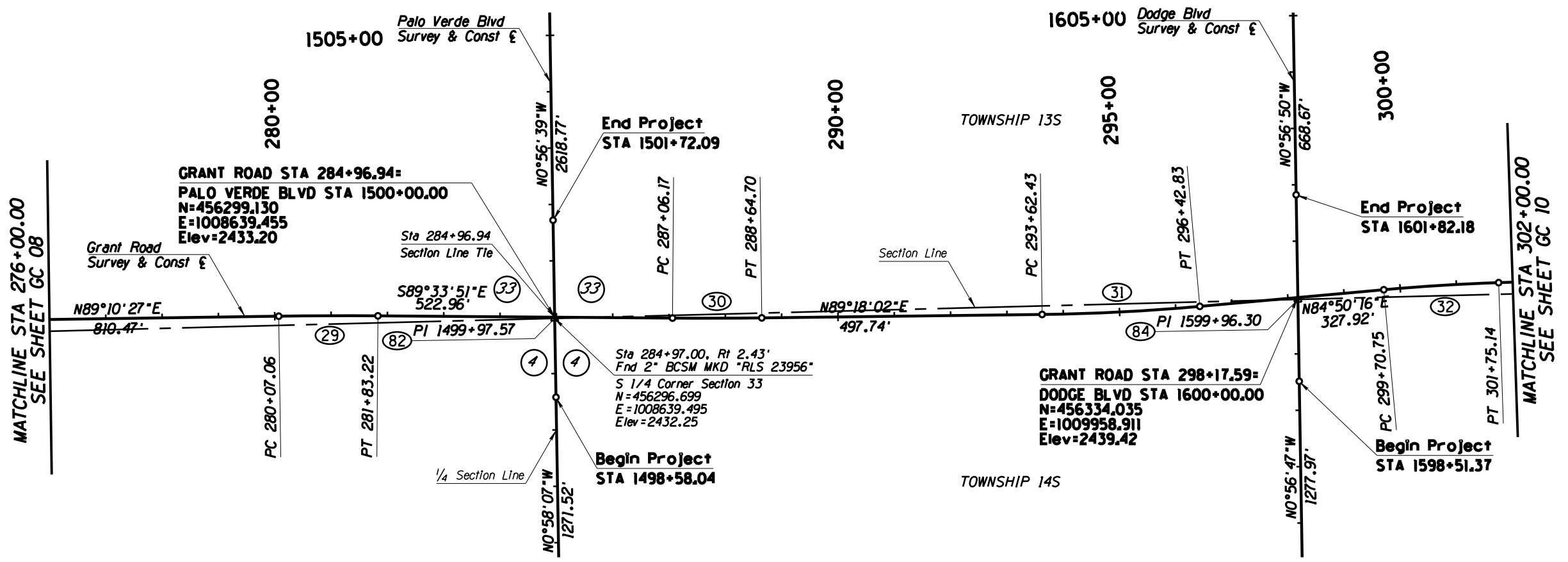
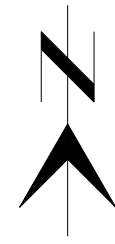
**General Notes**

- See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

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PLANS ARE NOT FOR CONSTRUCTION		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		GC08 OF GC16
		GRANT ROAD GEOMETRIC CONTROL		
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		9 OF 291
	CHKD. BY <b>S. Ahartz</b>	11/09	PLAN NO.	

NO.	DATE	REVISION	BY	CHKD.	APPR.



**General Notes**

- 1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

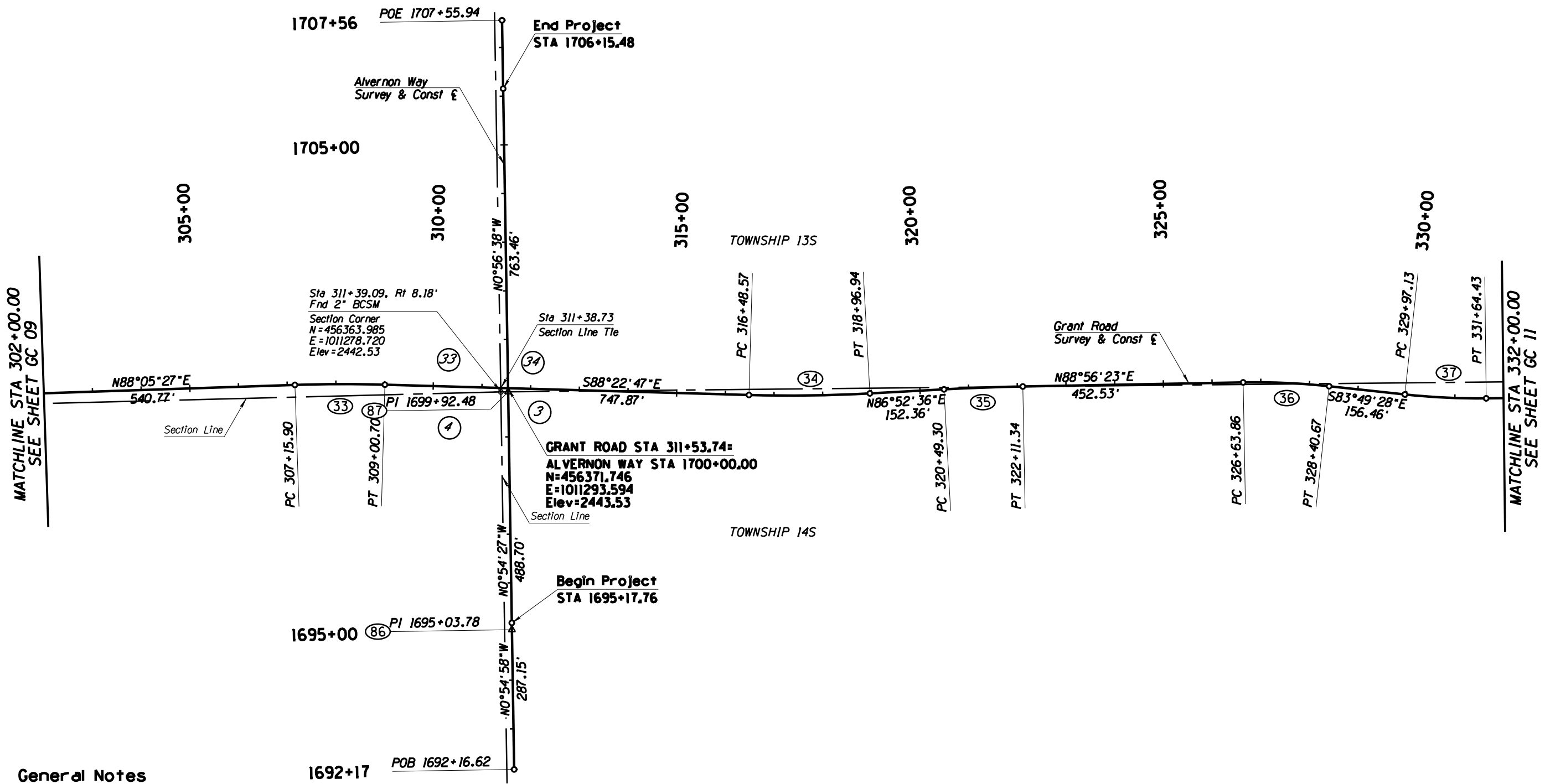
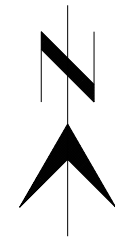


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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC09
GRANT ROAD GEOMETRIC CONTROL				OF
	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Aharitz</b>	11/09	PLAN NO.	
				10
				OF
				291



MATCHLINE STA 302+00.00  
SEE SHEET GC 09

MATCHLINE STA 332+00.00  
SEE SHEET GC 11

**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

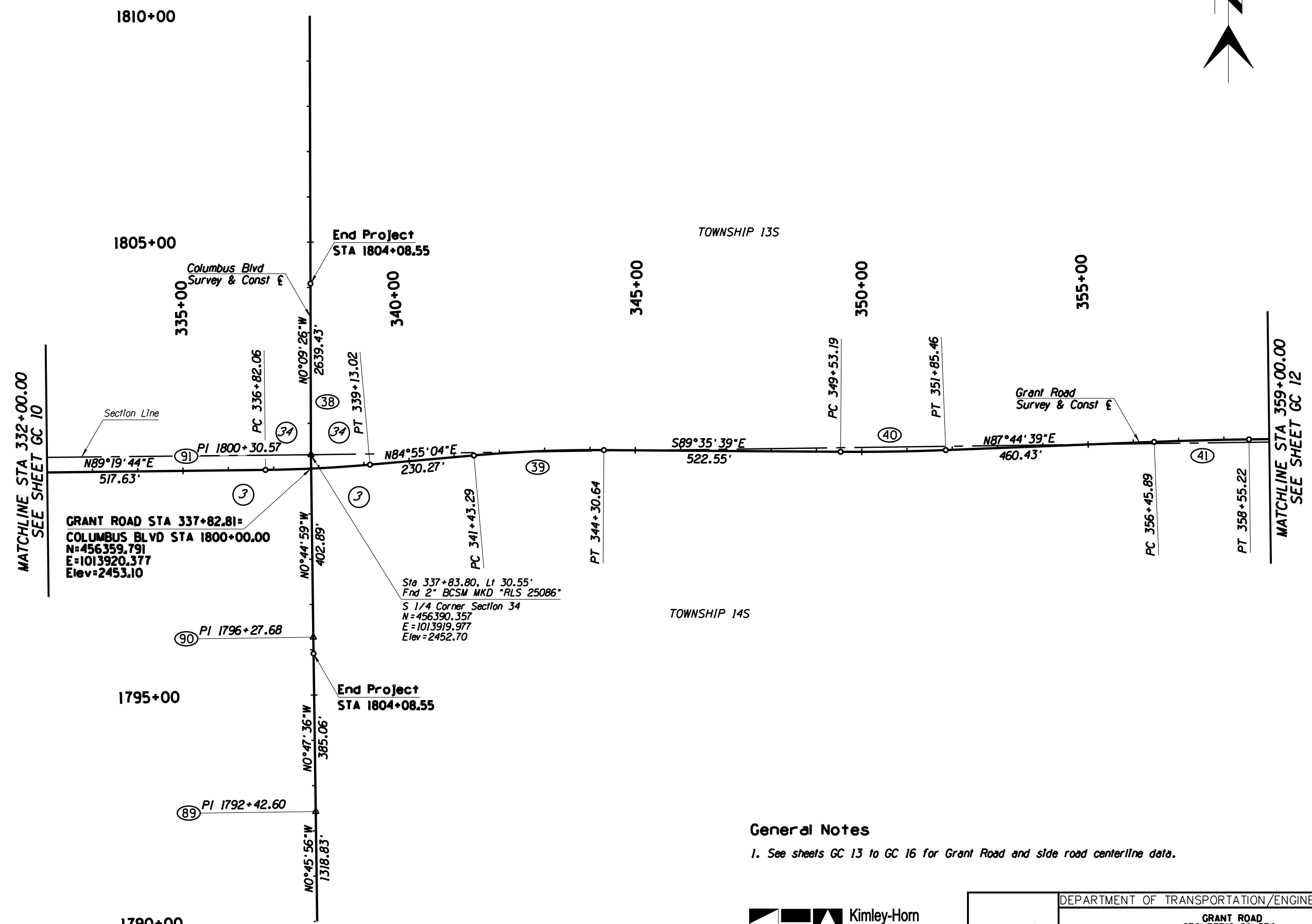
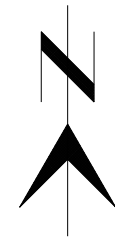


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FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC10 OF GC16
GRANT ROAD GEOMETRIC CONTROL				11 OF 291
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF.	SCALE: 1"=100'
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Ahar'tz</b>	11/09	PLAN NO.	



GRANT ROAD STA 337+82.81=  
 COLUMBUS BLVD STA 1800+00.00  
 N=456359.791  
 E=1013920.377  
 Elev=2453.10

Sta 337+83.80, Lt 30.55'  
 Fnd 2" BCSM MKD "RLS 25086"  
 S 1/4 Corner Section 34  
 N=456390.357  
 E=1013919.977  
 Elev=2452.70

**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.

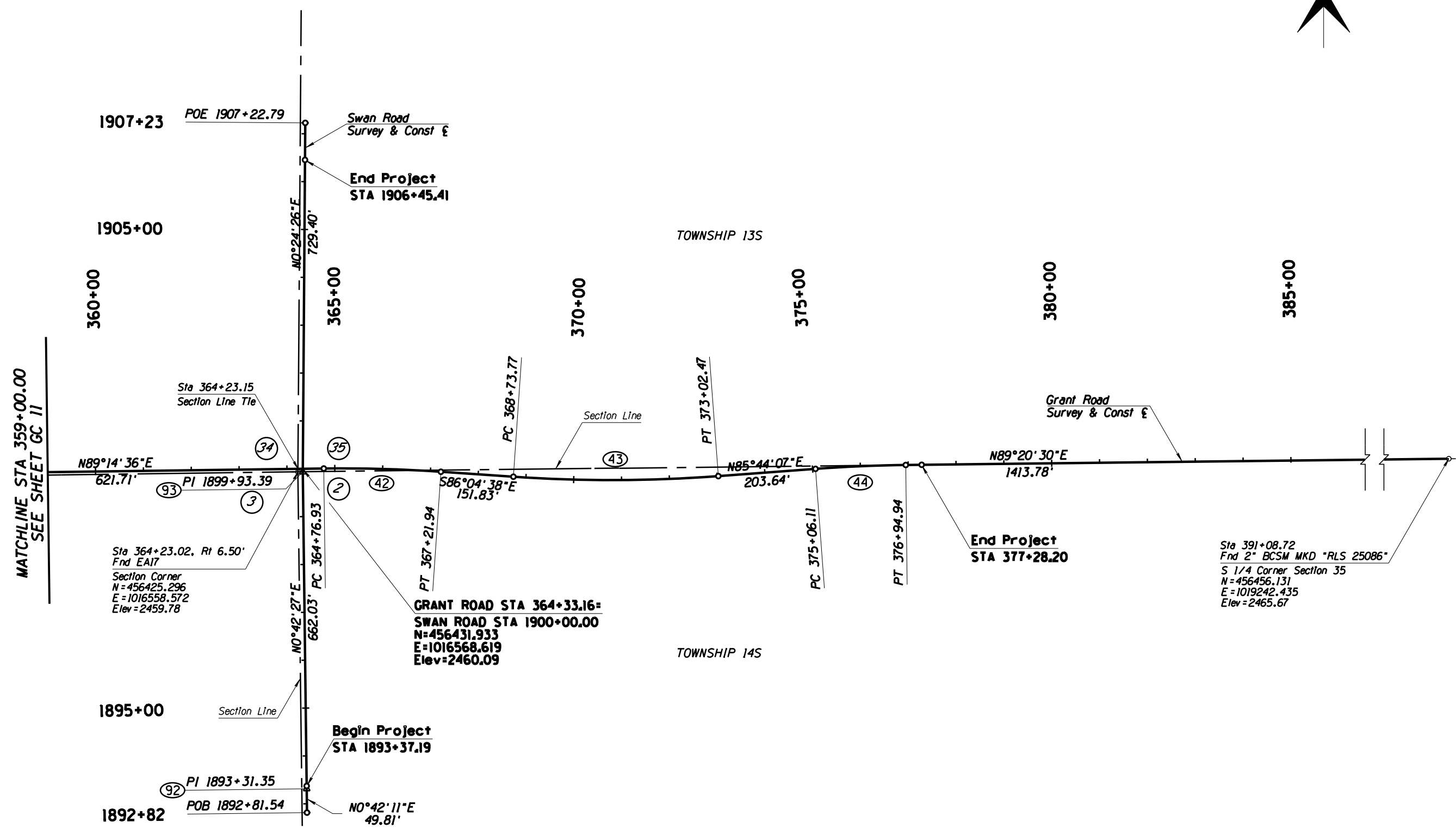


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NO.	DATE	REVISION	BY	CHKD.	APPR.

		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION <b>GRANT ROAD          GEOMETRIC CONTROL</b>		GC11 OF GC16
		DSON. BY <b>B. Beenken</b> DRWN. BY <b>M. Huggins</b> CHKD. BY <b>S. Aharitz</b>	11/09 11/09 11/09	REF. _____ SCALE: 1"=100' PLAN NO. _____

PLANS ARE NOT  
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MATCHLINE STA 359+00.00  
SEE SHEET GC 11

**General Notes**

1. See sheets GC 13 to GC 16 for Grant Road and side road centerline data.



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NO.	DATE	REVISION	BY	CHKD.	APPR.

		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		GC12
		GRANT ROAD GEOMETRIC CONTROL		OF GC16
DSN. BY <b>B. Beenken</b> DRWN. BY <b>M. Huggins</b> CHKD. BY <b>S. Ahartz</b>	11/09 11/09 11/09	REF. _____ SCALE: 1"=100' PLAN NO. _____	13 OF 291	

PLANS ARE NOT  
FOR CONSTRUCTION

LOCATION	REF NO.	REFERENCE DATA			CURVE DATA									Δ	D	R	L	T	EXT.	Super
					PI			PC			PT/PCC									
		STATION	N	E	STATION	N	E	STATION	N	E	STATION	N	E							
Grant Road	POB	73+54.64	456029.756	987545.873																
	1				86+90.67	456021.121	988881.873	86+14.90	456021.611	988806.111	87+66.42	456023.270	988957.607	1°59'44"	1°19'02"	4350.00'	151.51'	75.76'	0.66	
	2				89+92.17	456029.673	989183.272	89+16.41	456027.524	989107.538	90+67.92	456029.183	989259.034	1°59'44"	1°19'02"	4350.00'	151.51'	75.76'	0.66	
	3				98+14.08	456024.361	990005.176	97+25.31	456024.935	989916.409	99+02.75	456031.106	990093.687	4°43'43"	2°39'54"	2150.00'	177.44'	88.77'	1.83	
	4				100+00.00	456038.500	990190.660													
	5				101+92.12	456053.097	990382.227	100+52.74	456042.505	990243.250	103+31.11	456045.656	990521.408	7°25'06"	2°39'54"	2150.00'	278.37'	139.38'	4.51	
	6				108+18.33	456019.646	991007.933	106+11.92	456030.665	990801.811	110+23.81	456042.583	991213.071	9°26'24"	2°17'31"	2500.00'	411.90'	206.42'	8.51	
	7				116+32.29	456110.196	991817.780	114+35.89	456088.373	991622.599	118+27.43	456093.636	992013.478	11°13'00"	2°51'53"	2000.00'	391.54'	196.4'	9.62	
	8				126+68.91	456022.683	992851.961	124+35.59	456042.356	992619.469	129+00.89	456046.370	993084.079	10°39'50"	2°17'31"	2500.00'	465.30'	233.32'	10.86	
	9				131+83.47	456075.059	993365.198	130+77.32	456064.282	993259.599	132+89.49	456076.845	993471.331	4°51'45"	2°17'31"	2500.00'	212.17'	106.15'	2.25	
	10				141+97.41	456092.127	994379.127	141+21.71	456090.852	994303.436	142+73.10	456096.264	994454.716	2°10'06"	1°25'57"	4000.00'	151.39'	75.70'	0.72	
	11				145+75.34	456112.782	994756.509	144+23.88	456104.504	994605.278	147+26.66	456109.599	994907.934	4°20'13"	1°25'57"	4000.00'	302.77'	151.46'	2.87	
	12				149+53.14	456104.840	995134.373	148+77.44	456106.431	995058.688	150+28.83	456106.114	995210.064	2°10'06"	1°25'57"	4000.00'	151.39'	75.70'	0.72	
	13				157+11.69	456117.607	995892.826	153+27.08	456111.134	995508.270	160+92.62	456032.772	996267.963	13°42'25"	1°47'26"	3200.00'	765.55'	384.61'	23.03	
	14				166+57.98	455908.071	996819.389	164+90.51	455945.010	996656.048	168+23.86	455910.701	996986.835	13°38'33"	4°05'33"	1400.00'	333.35'	167.47'	9.98	
	15				180+06.89	455929.279	998169.718	178+24.97	455926.422	997987.826	181+87.80	455964.906	998348.109	10°23'40"	2°51'53"	2000.00'	362.83'	181.91'	8.26	
	16				185+20.90	456030.142	998674.757	183+40.13	455994.738	998497.484	187+00.69	456033.186	998855.505	10°19'46"	2°51'53"	2000.00'	360.57'	180.77'	8.15	
	17				194+85.28	456046.394	999639.978	194+07.79	456045.090	999562.502	195+62.71	456052.910	999717.191	3°51'33"	2°29'28"	2300.00'	154.92'	77.49'	1.3	
	18				198+52.63	456077.290	1000006.084	197+12.87	456065.538	999866.825	199+92.04	456072.094	1000145.742	6°57'16"	2°29'28"	2300.00'	279.17'	139.75'	4.24	
	19				203+10.78	456060.244	1000464.259	201+41.79	456066.527	1000295.392	204+79.25	456076.744	1000632.436	7°44'02"	2°17'31"	2500.00'	337.46'	168.98'	5.7	
	20				208+27.37	456110.730	1000978.890	207+34.22	456101.640	1000886.190	209+20.47	456125.040	1001070.940	3°14'01"	1°44'10"	3300.00'	186.25'	93.15'	1.31	
	21				212+09.91	456169.510	1001356.946	210+71.03	456148.175	1001219.713	213+48.35	456171.673	1001495.811	7°56'40"	2°51'53"	2000.00'	277.32'	138.88'	4.82	
	22				234+13.62	456203.839	1003560.832	233+04.32	456202.136	1003451.547	235+22.86	456199.571	1003670.046	3°07'49"	1°25'57"	4000.00'	218.54'	109.30'	1.49	
	23				238+17.07	456188.082	1003964.031	237+22.18	456191.787	1003869.214	239+11.93	456188.876	1004058.918	2°43'04"	1°25'57"	4000.00'	189.74'	94.89'	1.13	
	24				246+61.21	456195.152	1004808.172	245+51.43	456194.233	1004698.397	247+70.92	456202.950	1004917.674	3°35'35"	1°38'13"	3500.00'	219.45'	109.78'	1.72	
	25				254+06.80	456248.114	1005551.953	252+78.54	456239.004	1005424.013	255+34.95	456247.835	1005680.217	4°11'51"	1°38'13"	3500.00'	256.41'	128.26'	2.35	
	26				258+23.08	456247.209	1005968.343	257+45.80	456247.377	1005891.070	259+00.31	456242.779	1006045.489	3°09'42"	2°02'47"	2800.00'	154.51'	77.27'	1.07	
	27				262+65.55	456221.842	1006410.129	260+72.03	456232.935	1006216.929	264+58.46	456237.433	1006603.019	7°54'26"	2°02'47"	2800.00'	386.42'	193.52'	6.68	
	28				270+80.71	456287.565	1007223.250	269+64.75	456278.223	1007107.664	271+96.59	456289.236	1007339.201	3°47'43"	1°38'13"	3500.00'	231.84'	115.96'	1.92	
	29				280+95.14	456302.186	1008237.663	280+07.06	456300.917	1008149.589	281+83.22	456301.516	1008325.744	1°15'42"	0°42'58"	8000.00'	176.16'	88.08'	0.48	
	30				287+85.44	456296.935	1008927.946	287+06.17	456297.538	1008848.684	288+64.70	456297.902	1009007.204	1°08'07"	0°42'58"	8000.00'	158.52'	79.26'	0.39	
	31				295+02.70	456305.691	1009645.161	293+62.43	456303.978	1009504.902	296+42.83	456318.311	1009784.861	4°27'46"	1°35'30"	3600.00'	280.40'	140.27'	2.73	
	32				300+72.97	456357.013	1010213.258	299+70.75	456347.815	1010111.451	301+75.14	456360.418	1010315.422	3°15'11"	1°35'30"	3600.00'	204.39'	102.22'	1.45	
	33				308+08.33	456381.513	1010948.265	307+15.90	456378.434	1010855.890	309+00.70	456378.900	1011040.654	3°31'46"	1°54'35"	3000.00'	184.79'	92.43'	1.42	
	34				317+72.82	456354.242	1011912.429	316+48.57	456357.755	1011788.222	318+96.94	456361.012	1012036.500	4°44'37"	1°54'35"	3000.00'	248.37'	124.26'	2.57	
	35				321+30.32	456373.729	1012269.542	320+49.30	456369.314	1012188.634	322+11.34	456375.228	1012350.557	2°03'47"	1°16'24"	4500.00'	162.04'	81.03'	0.73	
	36				327+52.38	456385.239	1012891.512	326+63.86	456383.601	1012803.006	328+40.67	456375.717	1012979.519	7°14'09"	4°05'33"	1400.00'	176.81'	88.52'	2.8	
	37				330+80.88	456349.876	1013218.335	329+97.13	456358.885	1013135.071	331+64.43	456350.857	1013302.078	6°50'49"	4°05'33"	1400.00'	167.30'	83.75'	2.5	
	38				337+97.60	456358.273	1013935.205	336+82.06	456356.920	1013819.676	339+13.02	456368.508	1014050.289	4°24'40"	1°54'35"	3000.00'	230.96'	115.54'	2.22	
	39				342+87.07	456401.643	1014422.870	341+43.29	456388.906	1014279.652	344+30.64	456400.625	1014566.650	5°29'16"	1°54'35"	3000.00'	287.35'	143.78'	3.44	
	40				350+69.34	456396.103	1015205.338	349+53.19	456396.925	1015089.185	351+85.46	456400.675	1015321.403	2°39'42"	1°08'45"	5000.00'	232.27'	116.16'	1.35	
	41				357+50.56	456422.919	1015886.068	356+45.89	456418.799	1015781.477	358+55.22	456424.301	1015990.731	1°29'57"	0°42'58"	8000.00'	209.33'	104.67'	0.68	
	42				365+99.50	456434.130	1016734.951	364+76.93	456432.511	1016612.389	367+21.94	456425.745	1016857.237	4°40'46"	1°54'35"	3000.00'	245.01'	122.57'	2.5	
	43				370+88.49	456400.669	1017222.924	368+73.77	456415.358	1017008.714	373+02.47	456416.636	1017437.042	8°11'15"	1°54'35"	3000.00'	428.70'	214.71'	7.67	
	44				376+00.56	456438.804	1017734.305	375+06.11	456431.780	1017640.116	376+94.94	456439.889	1017828.748	3°36'23"	1°54'35"	3000.00'	188.84'	94.45'	1.49	

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 Tucson, Arizona 85719 (520) 615-9191

PLANS ARE NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION  
**GRANT ROAD GEOMETRIC CONTROL**

CITY OF TUCSON

DSGN. BY **B. Beenken** 11/09  
 DRWN. BY **M. Huggins** 11/09  
 CHKD. BY **S. Ahar'tz** 11/09

SCALE: \_\_\_\_\_  
 PLAN NO. \_\_\_\_\_

GC13 OF GC16  
 14 OF 291

NO.	DATE	REVISION	BY	CHKD.	APPR.

LOCATION	REF NO.	REFERENCE DATA			CURVE DATA									Δ	D	R	L	T	EXT.	Super
					PI			PC			PT/PCC									
		STATION	N	E	STATION	N	E	STATION	N	E	STATION	N	E							
	POE	391+08.72	456456.131	1019242.435																
Oracle Rd	POB	480+25.39	454062.240	990197.200																
	POE	516+39.50	457675.890	990139.570																
Stone Ave	POB	592+02.84	455293.560	992077.460																
	45				593+77.99	455468.670	992081.090	592+02.84	455293.560	992077.460	595+52.84	455643.260	992067.220	5°43'32"	1°38'09"	3502.50'	350.00'	175.15'	4.38	
	46				597+52.98	455842.770	992051.380	596+72.72	455762.760	992057.740	598+33.09	455923.010	992053.600	6°07'33"	3°49'11"	1500.00'	160.37'	80.26'	2.15	
	47				601+35.36	456225.160	992061.970	600+58.45	456148.280	992059.840	602+12.25	456302.060	992060.720	2°31'04"	1°38'13"	3500.00'	153.80'	76.91'	0.84	
	48				602+63.55	456353.350	992059.890													
	POE	606+33.03	456722.670	992048.750																
6th Ave	POB	694+60.75	455590.350	993138.490																
	49				695+85.43	455697.340	993202.520													
	50				697+78.90	455863.370	993301.840	697+01.30	455796.770	993262.000	698+55.96	455936.720	993327.200	11°48'54"	7°38'22"	750.00'	154.66'	77.60'	4.00	
	51				700+58.85	456128.480	993393.490	699+61.97	456036.920	993361.840	701+53.76	456225.340	993391.960	19°58'45"	10°25'03"	550.00'	191.79'	96.88'	8.47	
	POE	707+07.26	456778.770	993383.190																
1st Ave	POB	789+68.14	455164.440	995788.750																
	52				796+25.99	455701.090	995408.270	791+46.26	455309.740	995685.730	800+70.61	456180.370	995429.130	37°49'46"	4°05'33"	1400.00'	924.35'	479.73'	79.91	
	53				805+43.48	456652.790	995449.700	804+94.18	456603.540	995447.550	805+92.75	456702.090	995449.140	3°08'16"	3°10'59"	1800.00'	98.58'	49.3'	0.68	
	POE	811+48.90	457258.200	995442.880																
Park Ave	POB	882+34.87	454166.760	996751.080																
	54				892+76.33	455208.080	996734.230													
	55				896+51.37	455583.070	996728.210													
	56				900+26.39	455958.050	996722.090													
	57				903+90.63	456322.250	996716.850													
	58				907+65.78	456697.360	996711.280													
	POE	918+48.98	457780.440	996695.040																
Mountain Ave	POB	993+00.03	455229.140	998074.360																
	59				996+75.06	455604.120	998068.370													
	60				1000+50.08	455979.100	998062.190													
	61				1004+17.00	456345.970	998056.620													
	62				1001+21.97	456350.940	998056.540													
	POE	1007+92.07	456720.990	998050.750																
Campbell Ave	POB	1082+36.43	454318.220	1000703.020																
	63				1099+39.30	456020.870	1000676.170	1098+27.69	455909.280	1000677.930	1100+50.76	456132.180	1000684.360	5°06'44"	2°17'31"	2500.00'	223.06'	111.61'	2.49	
	64				1101+06.96	456188.220	1000688.480													
	65				1103+45.20	456425.970	1000703.860	1102+79.37	456360.280	1000699.610	1104+11.00	456491.780	1000705.220	2°30'50"	1°54'35"	3000.00'	131.63'	65.83'	0.72	
	66				1108+08.33	456889.030	1000713.440													
	POE	1116+25.41	457706.100	1000713.440																

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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION		GC14 OF GC16
GRANT ROAD GEOMETRIC CONTROL		
CITY OF TUCSON	DESIGN BY <b>B. Beenken</b> 11/09	REF. _____ SCALE: _____
	DRAWN BY <b>M. Huggins</b> 11/09	
	CHECKED BY <b>S. Ahar'tz</b> 11/09	PLAN NO. _____

NO.	DATE	REVISION	BY	CHKD.	APPR.
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PLANS ARE NOT FOR CONSTRUCTION

LOCATION	REF NO.	REFERENCE DATA			CURVE DATA									Δ	D	R	L	T	EXT.	Super
					PI			PC			PT/PCC									
		STATION	N	E	STATION	N	E	STATION	N	E	STATION	N	E							
Tucson Blvd	POB	1193+59.47	455560.150	1003362.950																
	67				1199+88.55	456189.190	1003355.030													
	POE	1206+50.75	456851.390	1003354.800																
Treat Ave	POB	1287+48.35	454942.560	1004698.470																
	68				1293+84.36	455578.510	1004689.190													
	69				1300+15.18	456209.260	1004679.930													
	70				1303+97.22	456591.300	1004679.860													
	71				1306+80.30	456874.380	1004679.770													
	POE	1310+14.06	457208.140	1004679.580																
Country Club Rd	POB	1373+86.49	453632.820	1006042.940																
	72				1392+84.03	455530.080	1006010.730	1392+13.00	455459.070	1006011.940	1393+55.03	455601.000	1006006.870	2°08'29"	1°30'28"	3800.00'	142.03'	71.02'	0.66	
	73				1395+15.74	455761.470	1005998.140													
	74				1397+49.04	455994.690	1005991.970													
	75				1399+82.34	456227.910	1005985.810													
	76				1405+01.38	456746.950	1005985.630	1404+25.68	456671.250	1005985.660	1405+77.06	456822.590	1005988.620	2°16'55"	1°30'27"	3801.00'	151.38'	75.70'	0.75	
	77				1408+02.75	457048.100	1005997.530	1407+27.09	456972.500	1005994.550	1408+78.39	457123.760	1005997.510	2°16'55"	1°30'29"	3799.00'	151.30'	75.66'	0.75	
	78				1413+10.19	457555.560	1005997.360													
	79				1422+56.00	458501.370	1005996.960													
	80				1423+17.61	458562.990	1005996.970													
	POE	1426+42.38	458887.750	1005996.800																
Palo Verde Blvd	POB	1473+99.50	453699.000	1008683.340																
	81				1487+26.04	455025.360	1008660.990													
	82				1499+97.57	456296.700	1008639.500													
	83				1526+16.34	458915.120	1008596.350													
	POE	1526+46.39	458945.160	1008595.850																
Dodge Blvd	POB	1587+18.33	455052.540	1009980.080																
	84				1599+96.30	456330.340	1009958.970													
	85				1606+64.98	456998.920	1009947.920													
	POE	1613+18.56	457652.420	1009937.160																
Alvernon Way	POB	1692+16.62	455588.470	1011306.050																
	86				1695+03.78	455875.590	1011301.460													
	87				1699+92.48	456364.230	1011293.720													
POE	1701+55.94	457127.580	1011281.140																	
Columbus Blvd	POB	1774+15.94	453775.960	1013954.980																
	88				1787+34.77	455094.680	1013937.360													
	89				1792+42.60	455602.460	1013930.580													
	90				1796+27.68	455987.500	1013925.250													
	91				1800+30.57	456390.360	1013919.980													
POE	1826+70.00	459029.780	1013912.740																	

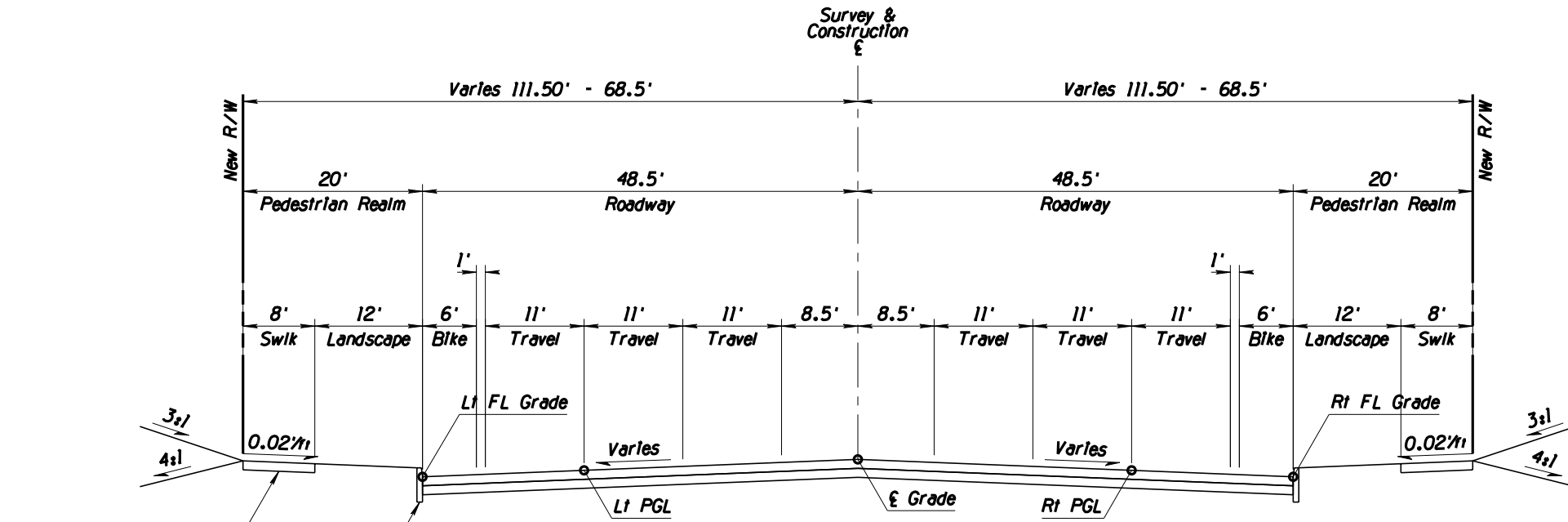


PLANS ARE NOT FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				GC15
GRANT ROAD GEOMETRIC CONTROL				OF
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: _____
	DRWN. BY <b>M. Huggins</b>	11/09		
	CHKD. BY <b>S. Ahartz</b>	11/09	PLAN NO. _____	16
				OF
				291

NO.	DATE	REVISION	BY	CHKD.	APPR.





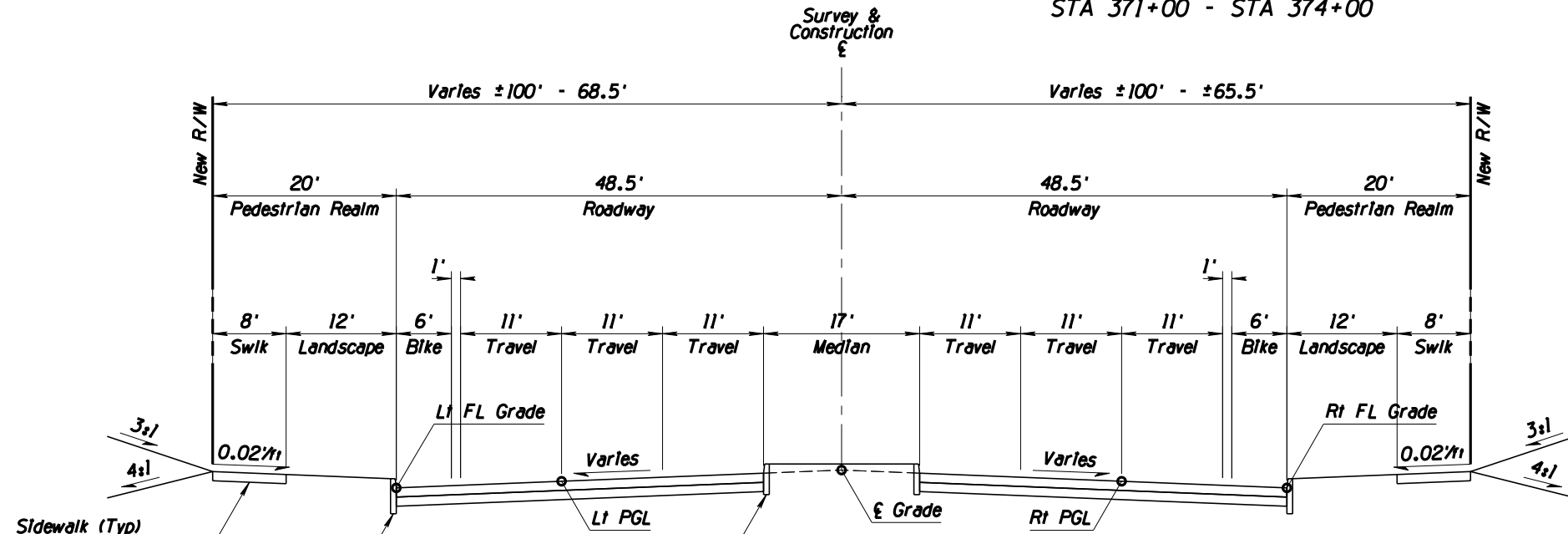
Sidewalk (Typ)  
PC/COT Std D11 200

6" Vertical Curb-Type 2 (Typ)  
PC/COT Std D11 209

**TYPICAL SECTION**  
with 12' Landscaped Boulevards  
Grant Road

\* Station ranges are approximate

STA 91+00 - STA 92+00	STA 162+00 - STA 163+30	STA 265+50 - STA 268+50
STA 109+00 - STA 112+00	STA 197+75 - STA 198+40	STA 303+00 - STA 305+50
STA 125+50 - STA 127+50	STA 247+00 - STA 248+00	STA 320+50 - STA 322+00
STA 143+00 - STA 144+40	STA 250+00 - STA 252+00	STA 357+50 - STA 358+90
		STA 371+00 - STA 374+00



Sidewalk (Typ)  
PC/COT Std D11 200

6" Vertical Curb-Type 2 (Typ)  
PC/COT Std D11 209

6" Vertical Curb-Type 2 (Typ)  
PC/COT Std D11 209

**TYPICAL SECTION**  
with 17' Median and 12' Landscaped Boulevards  
Grant Road

\* Station ranges are approximate

STA 87+00 - STA 91+00	STA 178+00 - STA 184+50	STA 268+50 - STA 286+50
STA 92+00 - STA 109+00	STA 196+00 - STA 197+75	STA 291+00 - STA 303+00
STA 112+00 - STA 125+50	STA 198+40 - STA 210+50	STA 305+50 - STA 317+50
STA 127+50 - STA 143+00	STA 227+00 - STA 247+00	STA 336+50 - STA 345+00
STA 144+40 - STA 159+00	STA 248+00 - STA 250+00	STA 358+90 - STA 371+00
STA 163+30 - STA 168+50	STA 252+00 - STA 265+50	STA 374+00 - STA 377+00

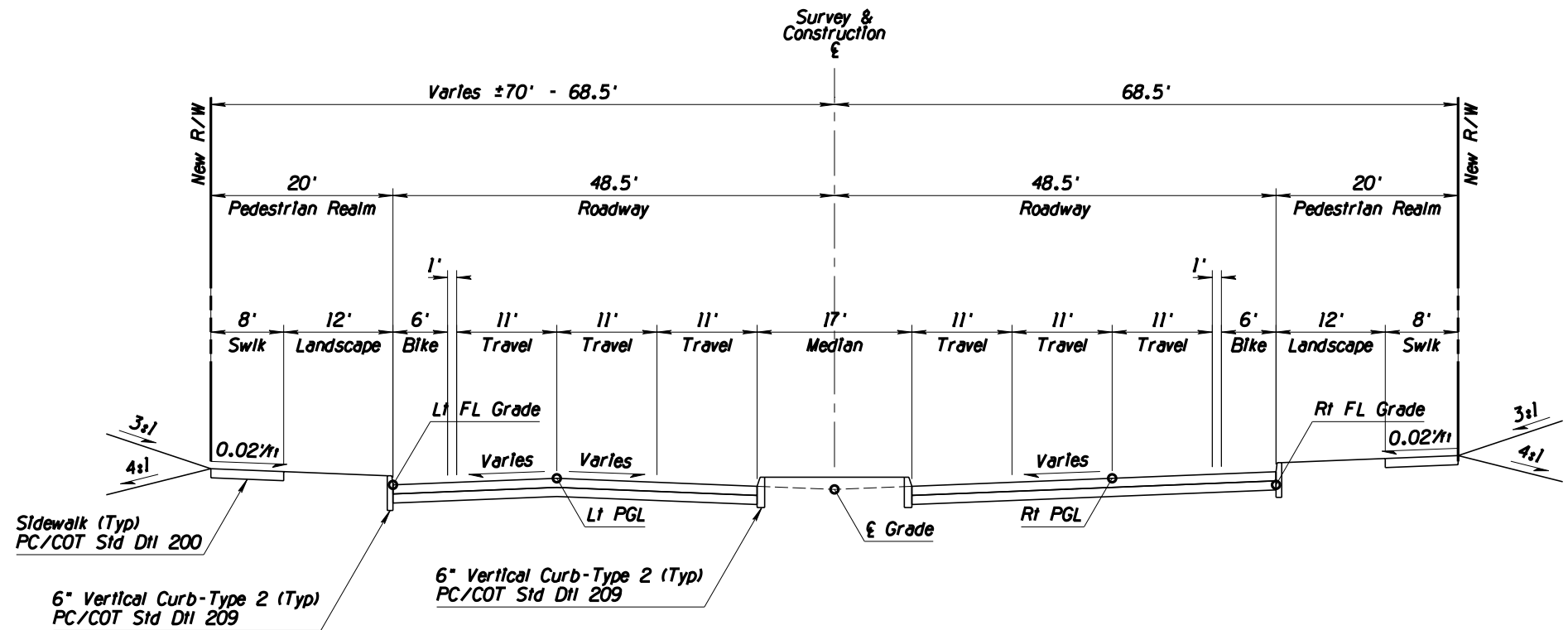
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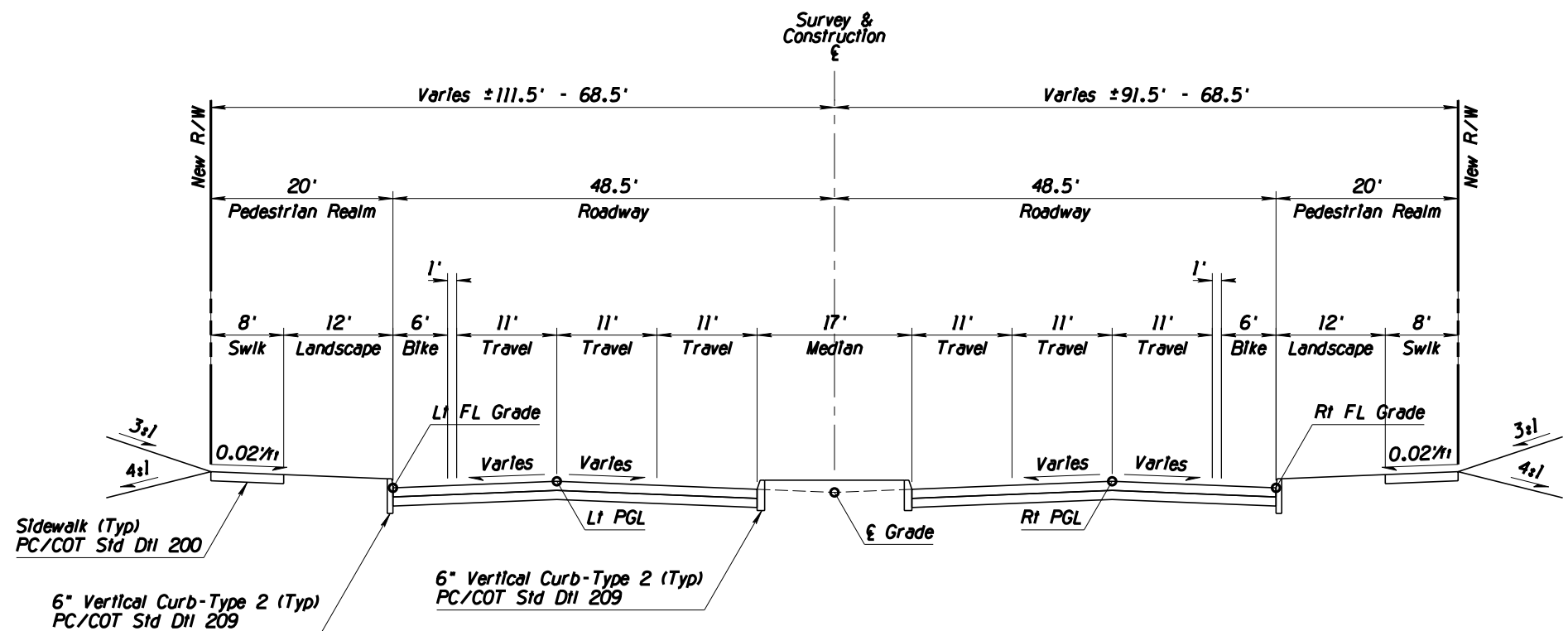
NO.	DATE	REVISION	BY	CHKD.	APPR.
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PLANS ARE NOT  
FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX01 OF TX10
<b>GRANT ROAD TYPICAL SECTIONS</b>				
	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: <b>NTS</b>
	DRWN. BY <b>J. DeBerry</b>	11/09		
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	



**TYPICAL SECTION**  
 with Crown and Superelevated Sections, 17' Median and 12' Landscaped Boulevards  
 Grant Road  
 STA 345+00 - STA 357+50 \* Station ranges are approximate



**TYPICAL SECTION**  
 with Double Crowns, 17' Median and 12' Landscaped Boulevards \* Station ranges are approximate  
 Grant Road  
 STA 210+50 - STA 213+40  
 STA 317+50 - STA 320+50  
 STA 322+00 - STA 331+00

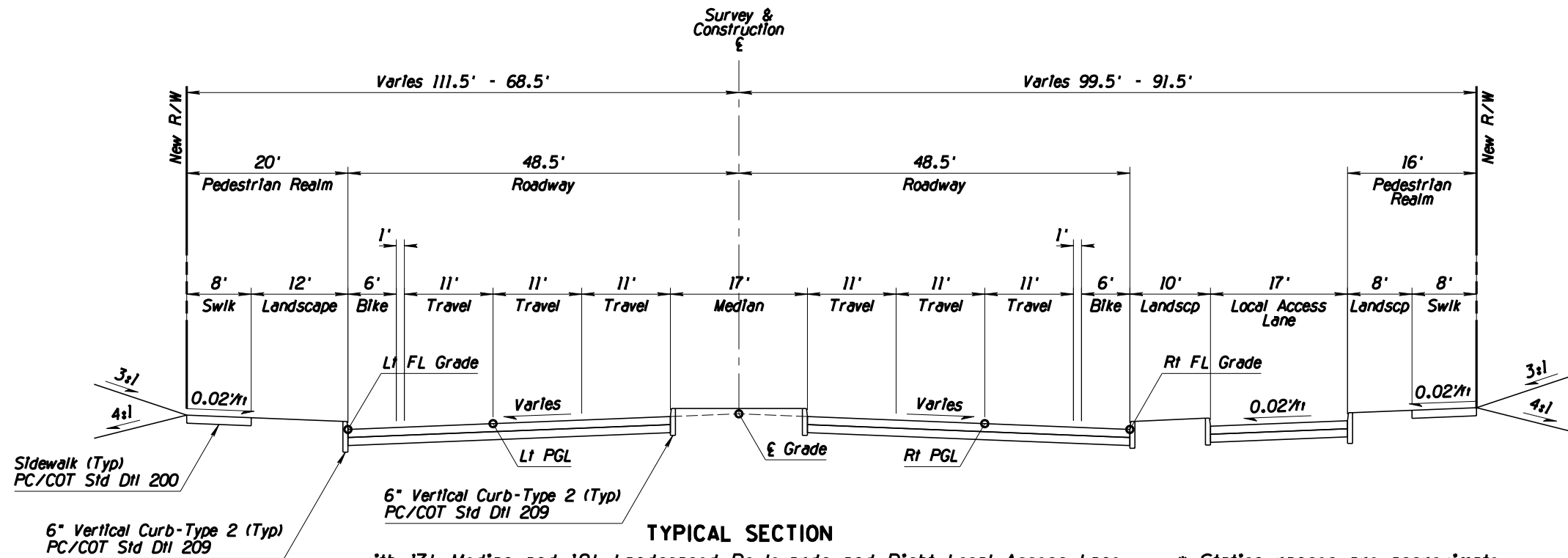


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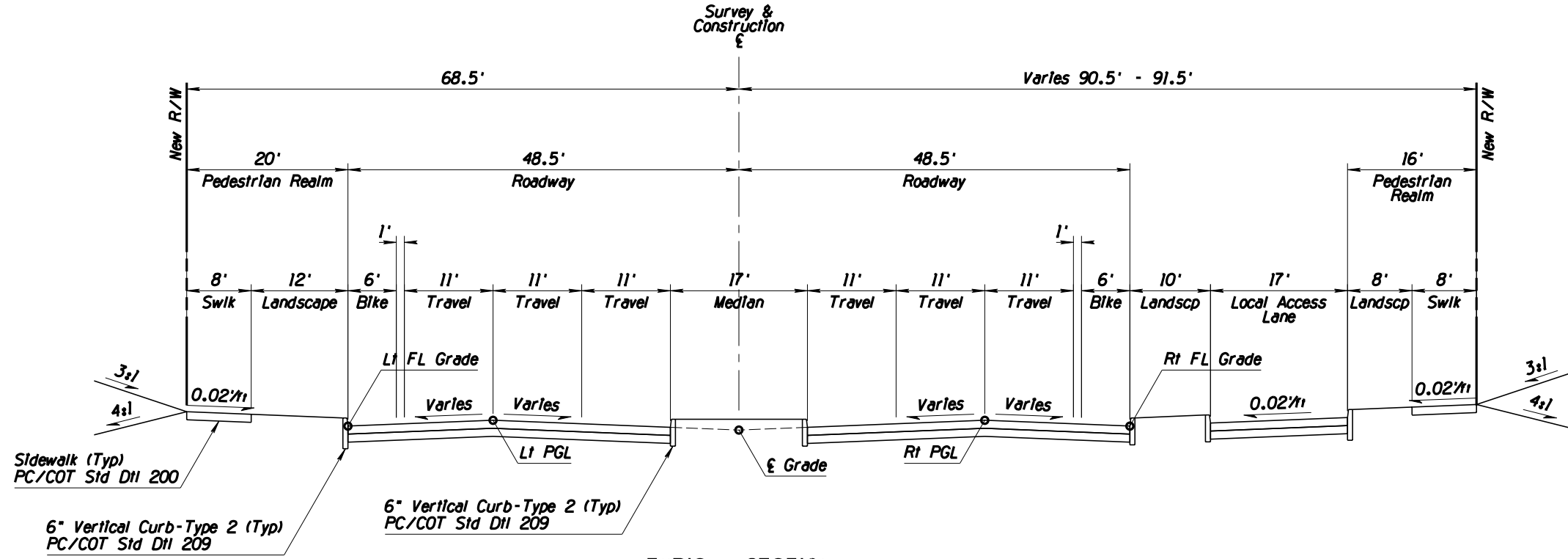
NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX02
GRANT ROAD TYPICAL SECTIONS				OF TX10
	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>J. DeBerry</b>	11/09	_____	19
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	OF 291

PLANS ARE NOT FOR CONSTRUCTION



**TYPICAL SECTION**  
 with 17' Median and 12' Landscaped Boulevards and Right Local Access Lane \* Station ranges are approximate  
 Grant Road  
 STA 159+00 - STA 162+00  
 STA 184+50 - STA 196+00  
 STA 225+00 - STA 227+00



**TYPICAL SECTION**  
 with Double Crowns, 17' Median and 12' Landscaped Boulevards and Right Local Access Lane \* Station ranges are approximate  
 Grant Road  
 STA 213+50 - STA 225+00

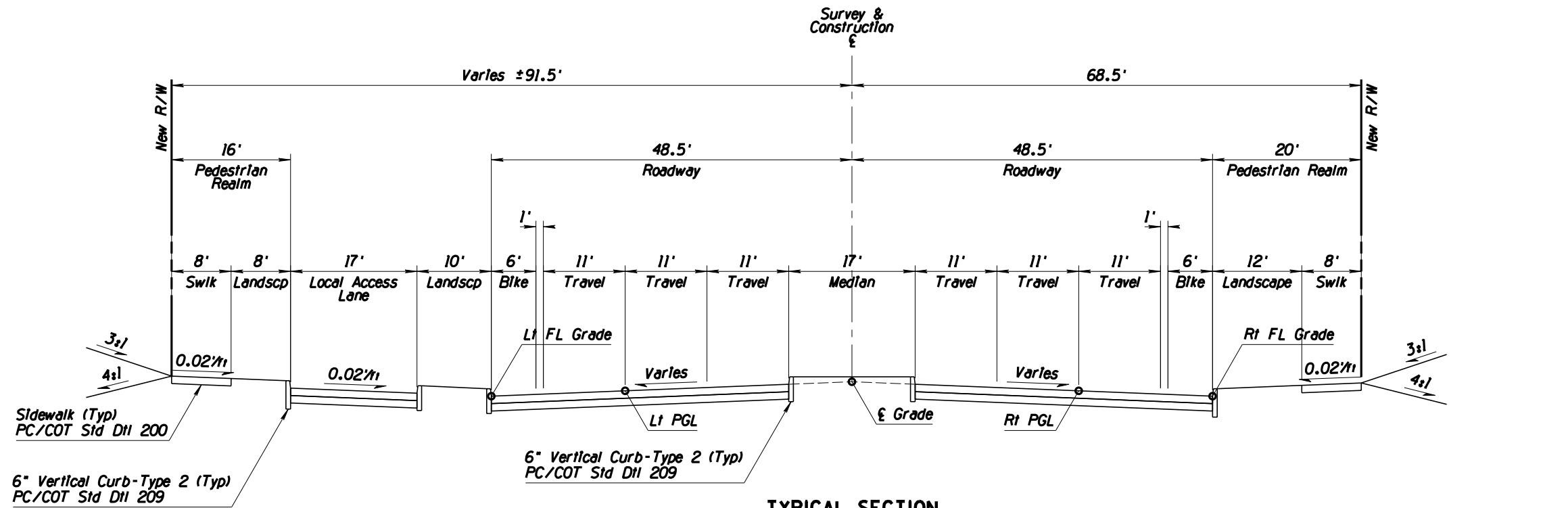


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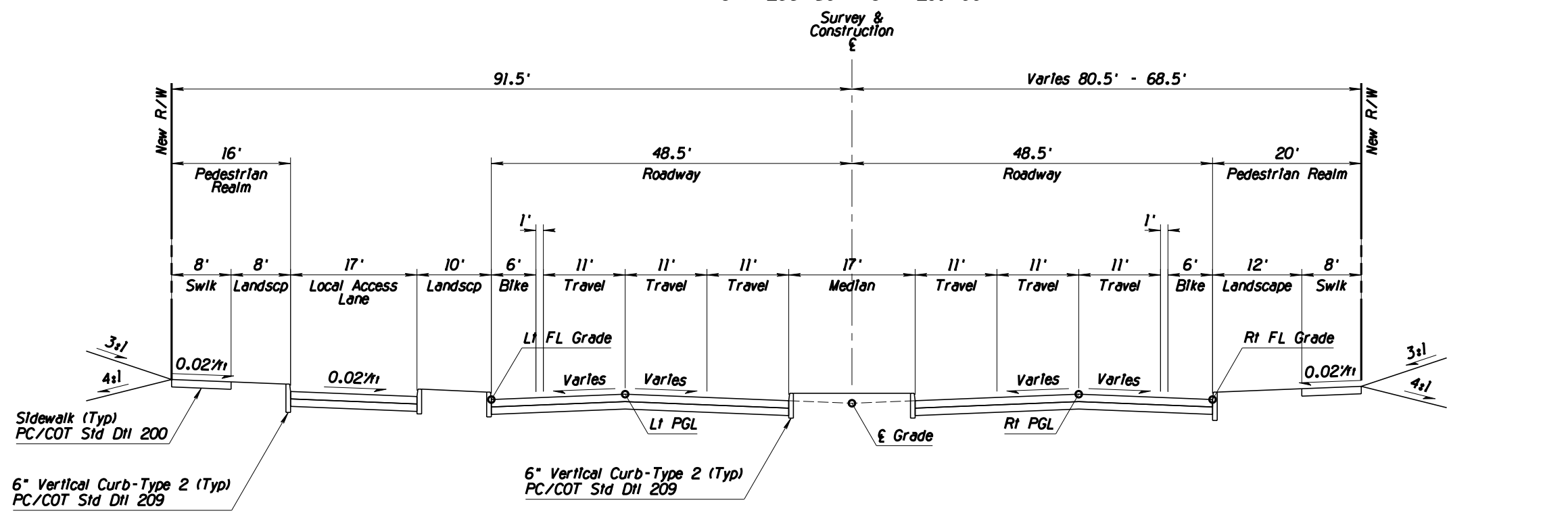
NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX03 OF TX10
GRANT ROAD TYPICAL SECTIONS				20 OF 291
	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>J. DeBerry</b>	11/09	_____	_____
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	_____

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FOR CONSTRUCTION



**TYPICAL SECTION**  
 with 17' Median and 12' Landscaped Boulevards and Left Local Access Lane  
 Grant Road  
 STA 168+50 - STA 178+00  
 STA 286+50 - STA 291+00  
 \* Station ranges are approximate



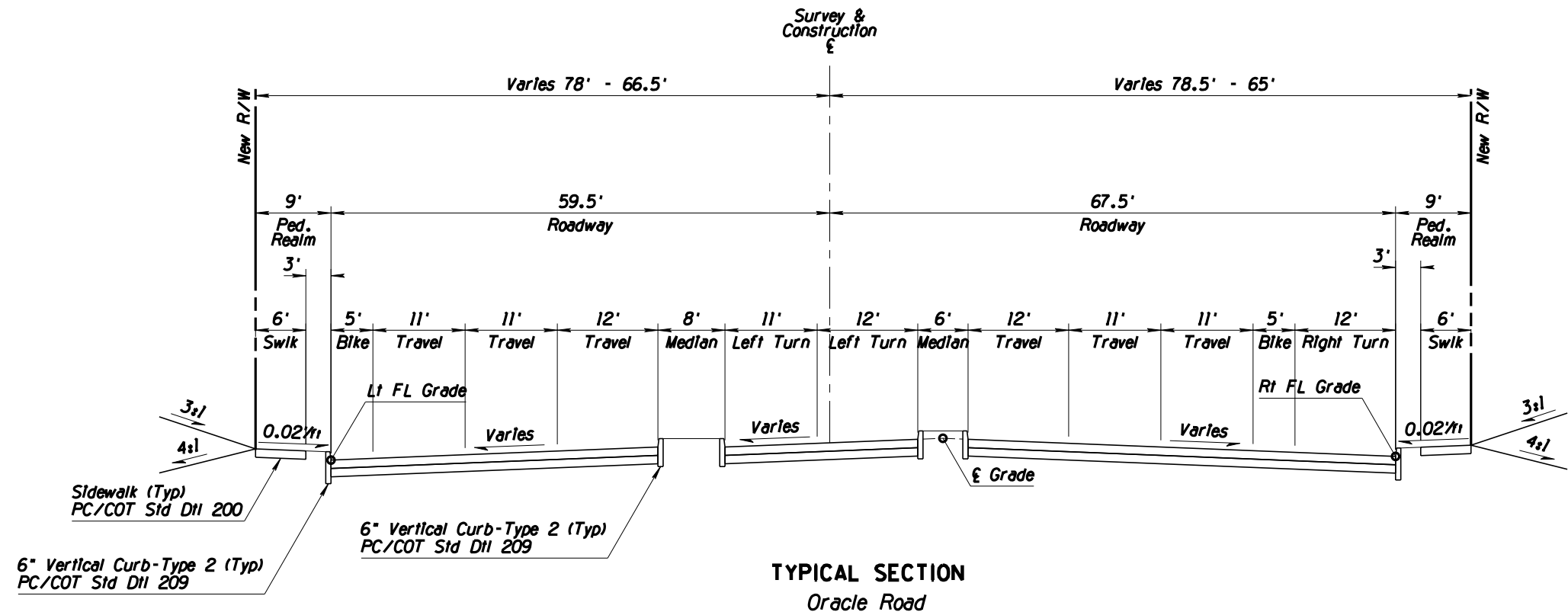
**TYPICAL SECTION**  
 with Double Crowns, 17' Median and 12' Landscaped Boulevards and Left Local Access Lane  
 Grant Road  
 STA 331+00 - STA 336+50

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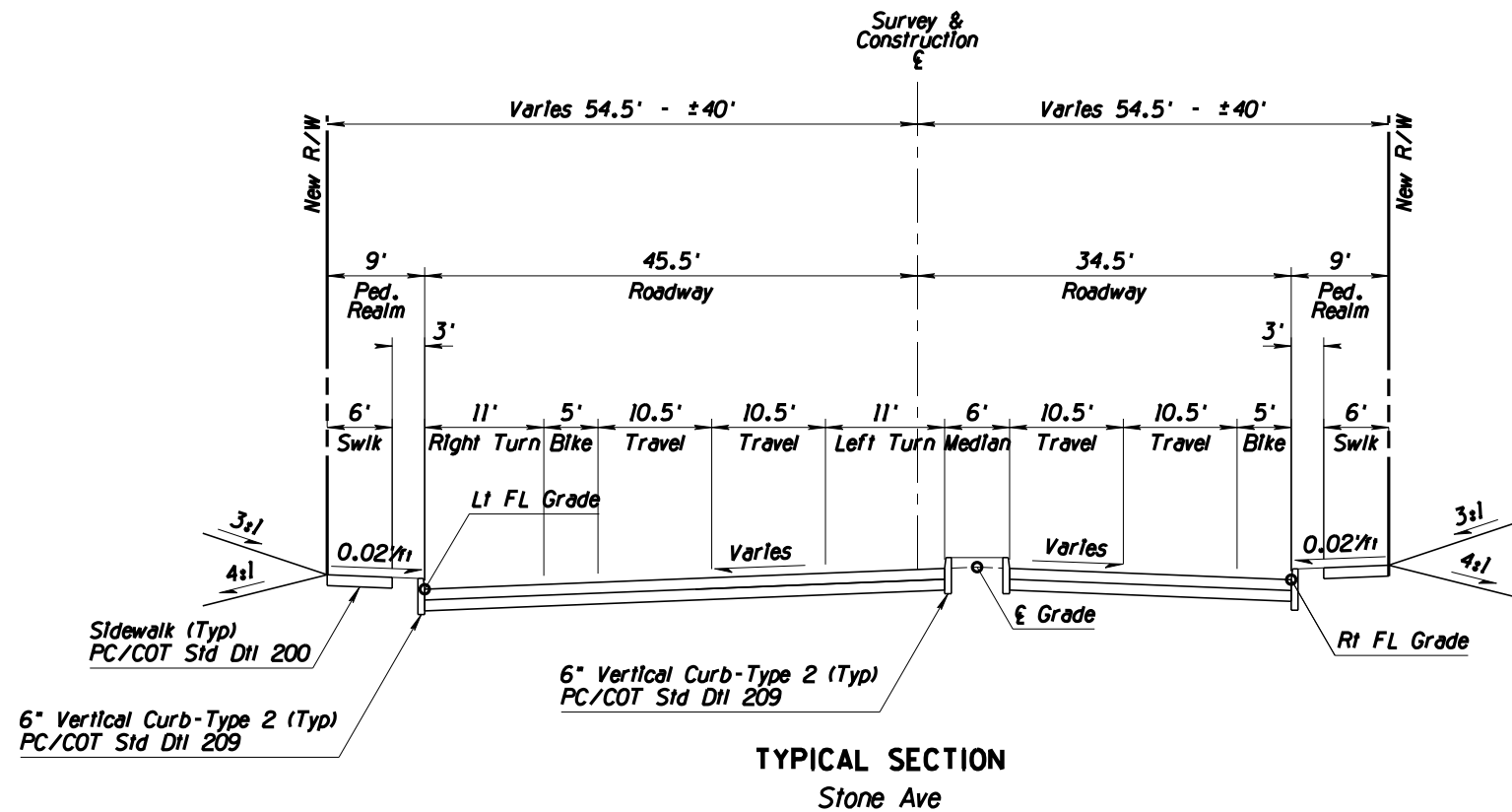
NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX04 OF TX10
<b>GRANT ROAD TYPICAL SECTIONS</b>				
	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: <b>NTS</b>
	DRWN. BY <b>J. DeBerry</b>	11/09		
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	

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TYPICAL SECTION  
Oracle Road



TYPICAL SECTION  
Stone Ave

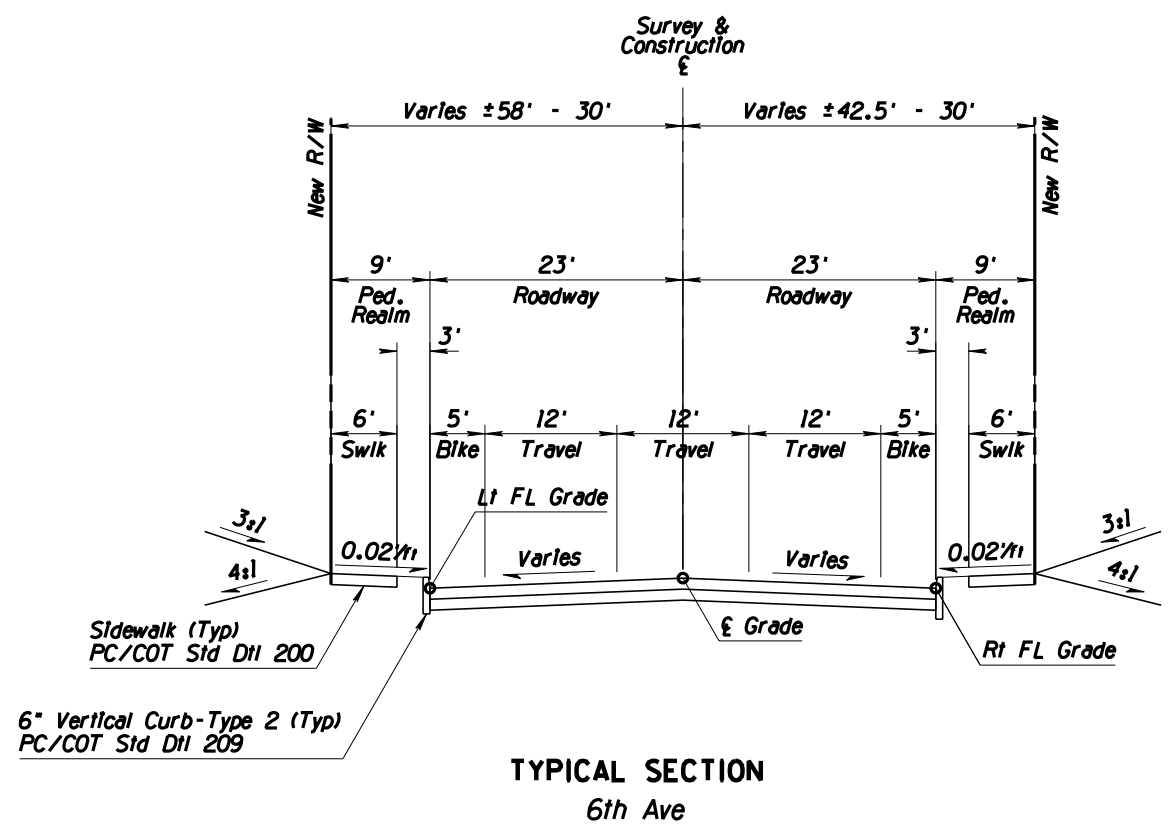
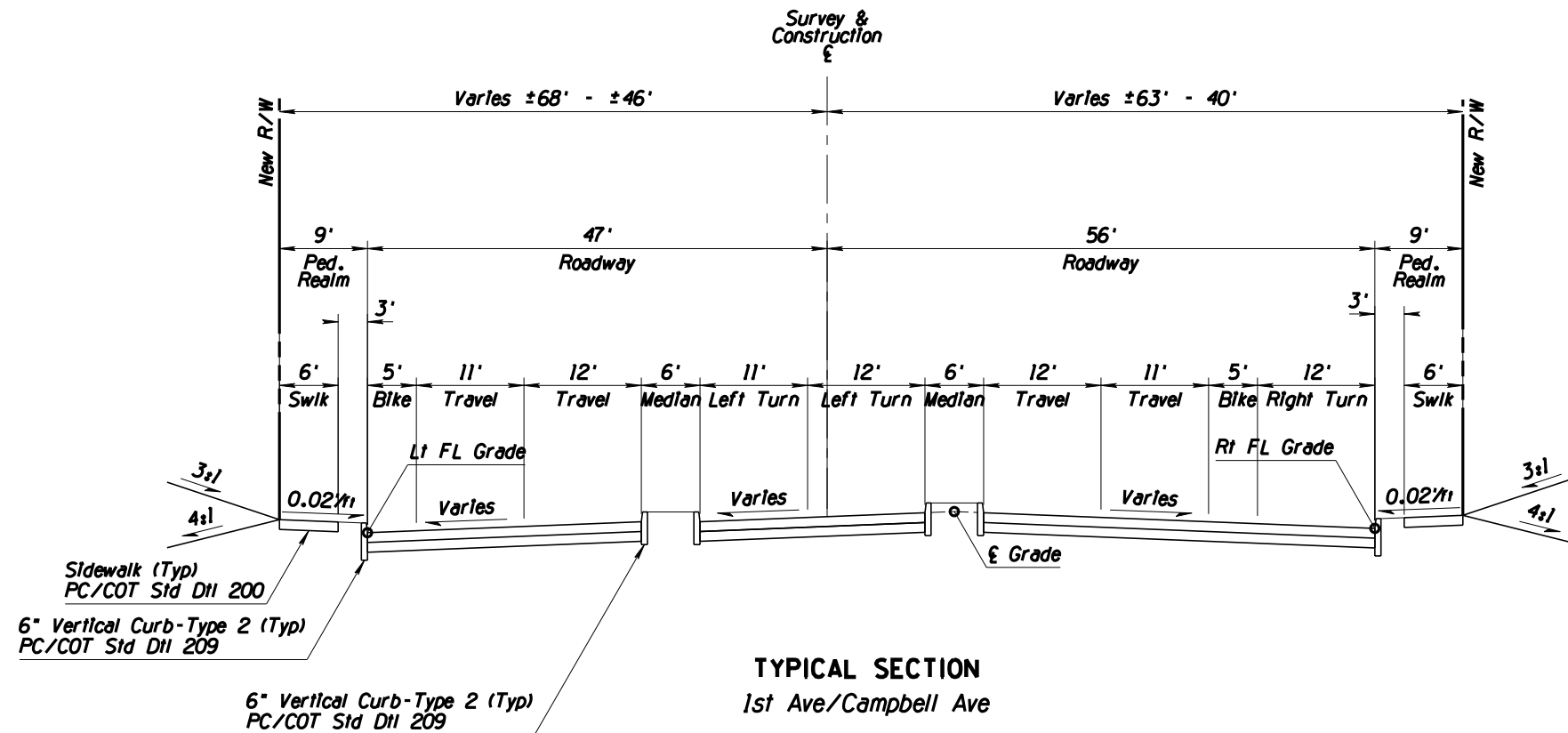


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DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX05 OF TX10
ORACLE ROAD/STONE AVE TYPICAL SECTIONS				22 OF 291
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>M. Huggins</b>	11/09	_____	_____
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	_____



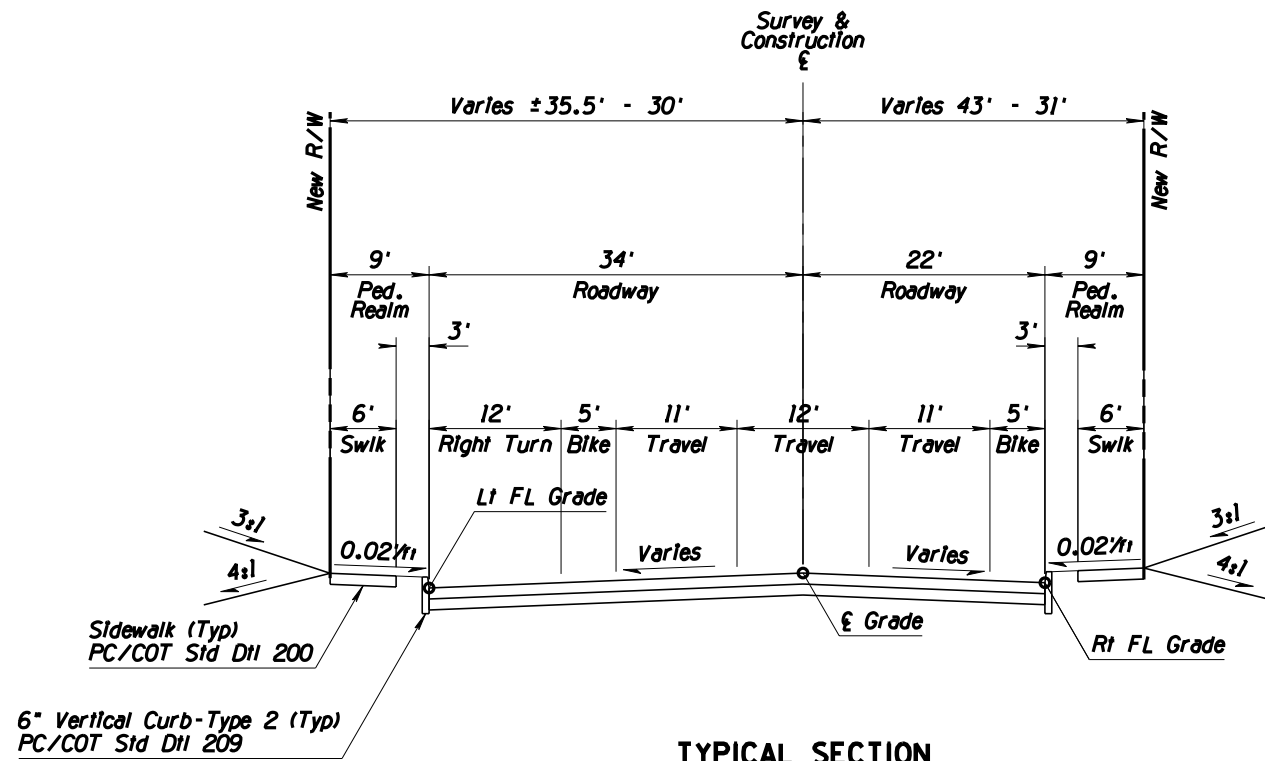
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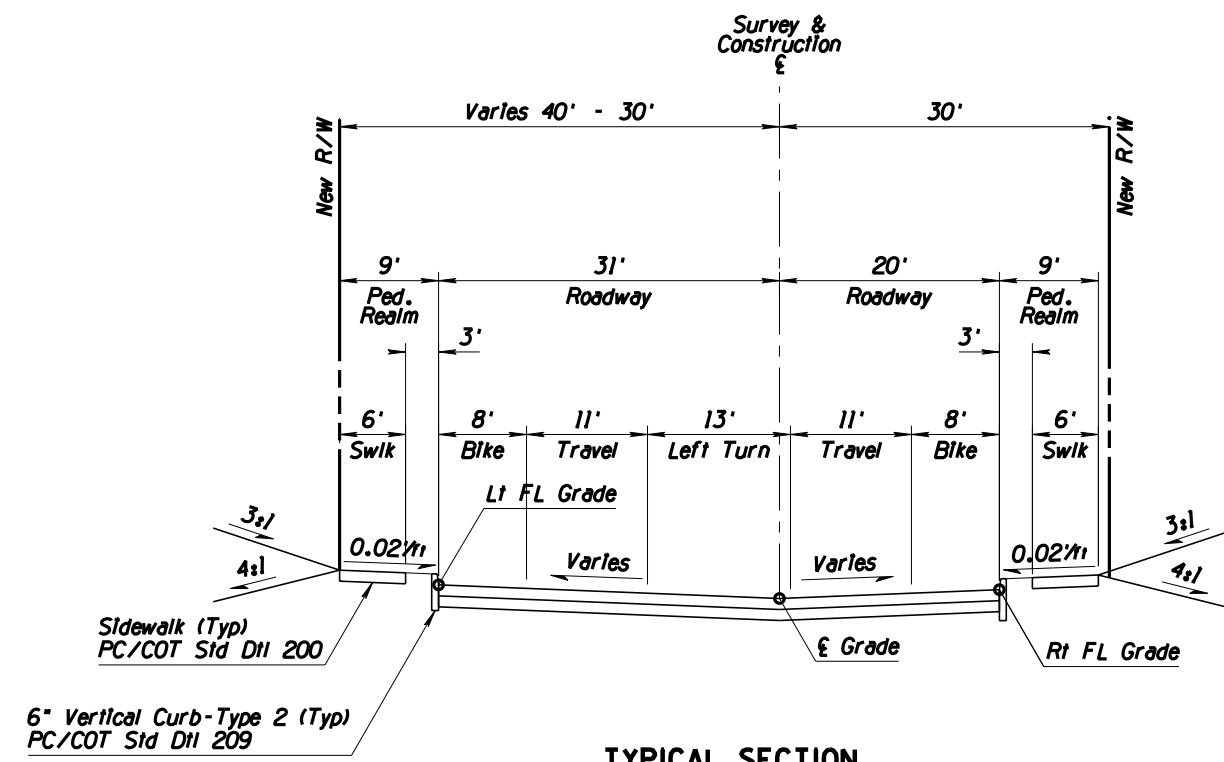
NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX06
1ST AVE/CAMPBELL AVE/6TH AVE TYPICAL SECTIONS				OF TX10
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: <b>NTS</b>
	DRWN. BY <b>M. Huggins</b>	11/09	_____	23
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	OF 291

PLANS ARE NOT FOR CONSTRUCTION



**TYPICAL SECTION**  
Park Ave



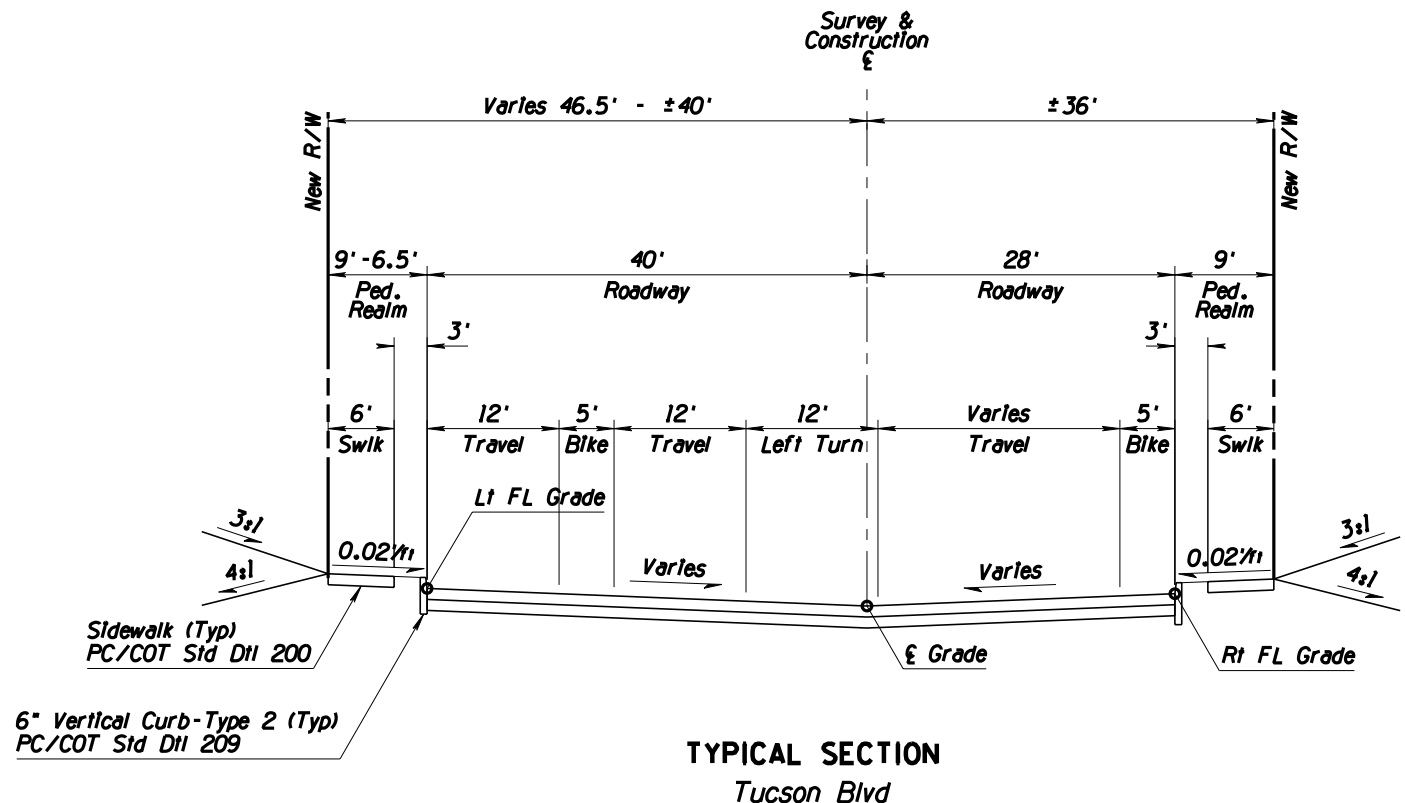
**TYPICAL SECTION**  
Mountain Ave

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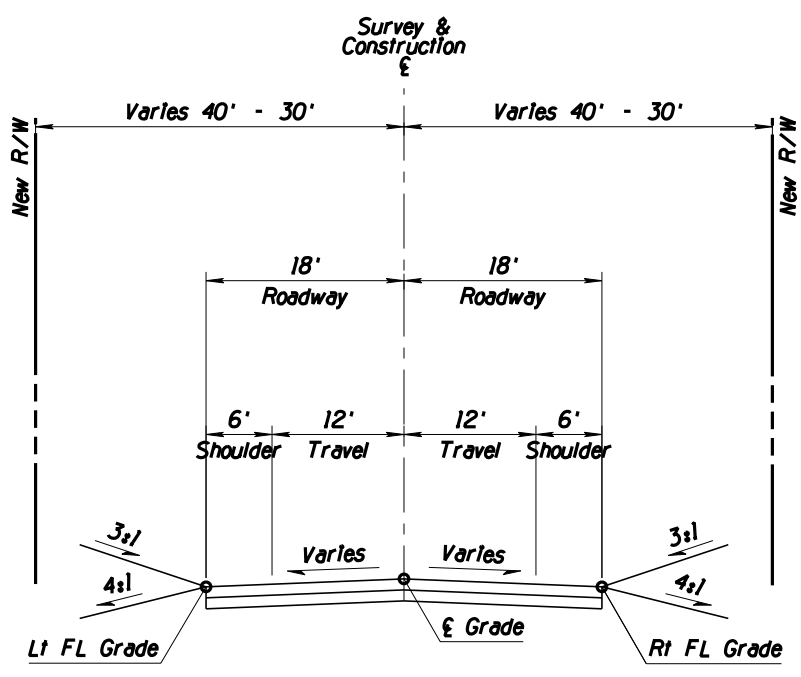
DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX07 OF TX10
PARK AVE/MOUNTAIN AVE TYPICAL SECTIONS				
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>M. Huggins</b>	11/09	_____	24 OF 291
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	

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Sidewalk (Typ)  
PC/COT Std DII 200

6" Vertical Curb-Type 2 (Typ)  
PC/COT Std DII 209

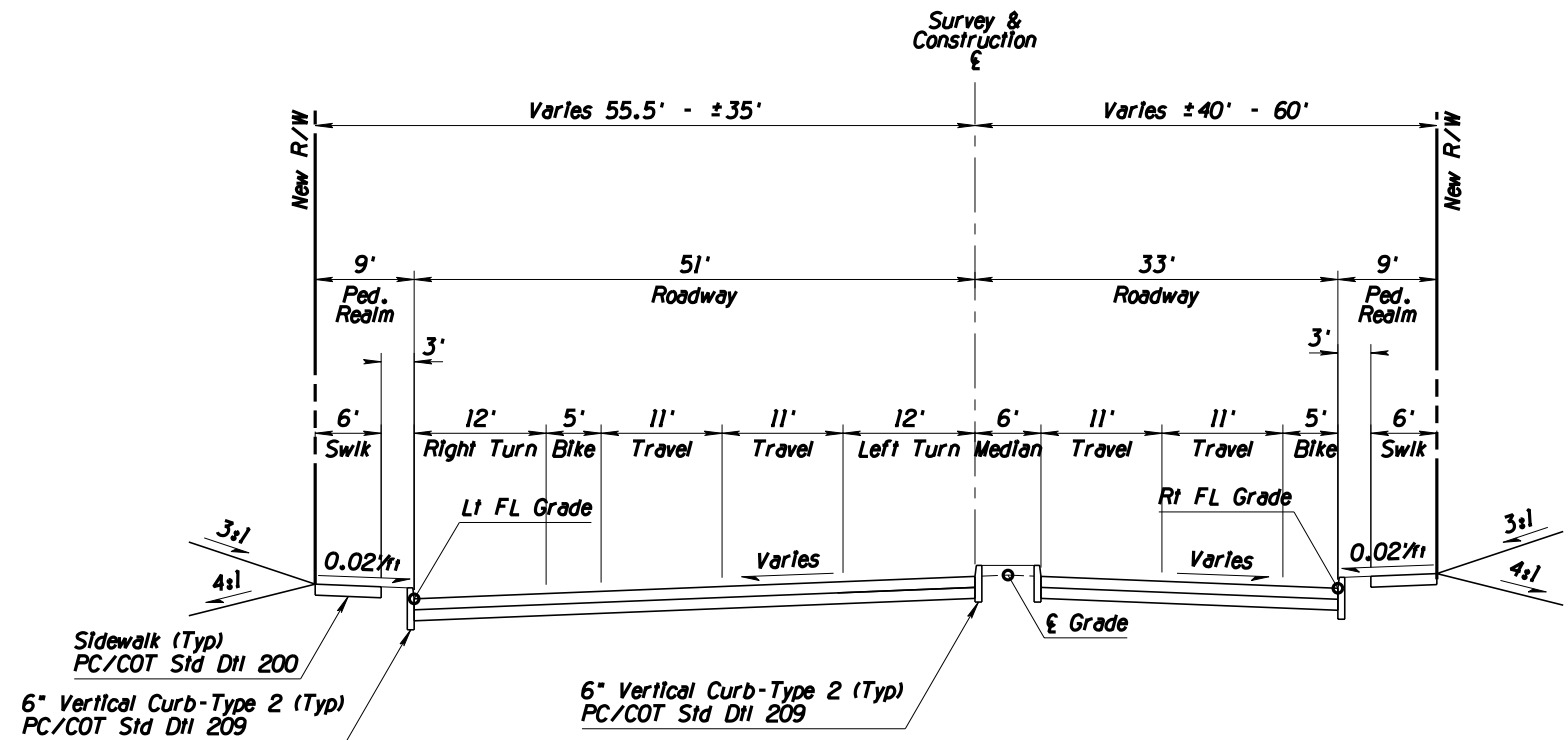


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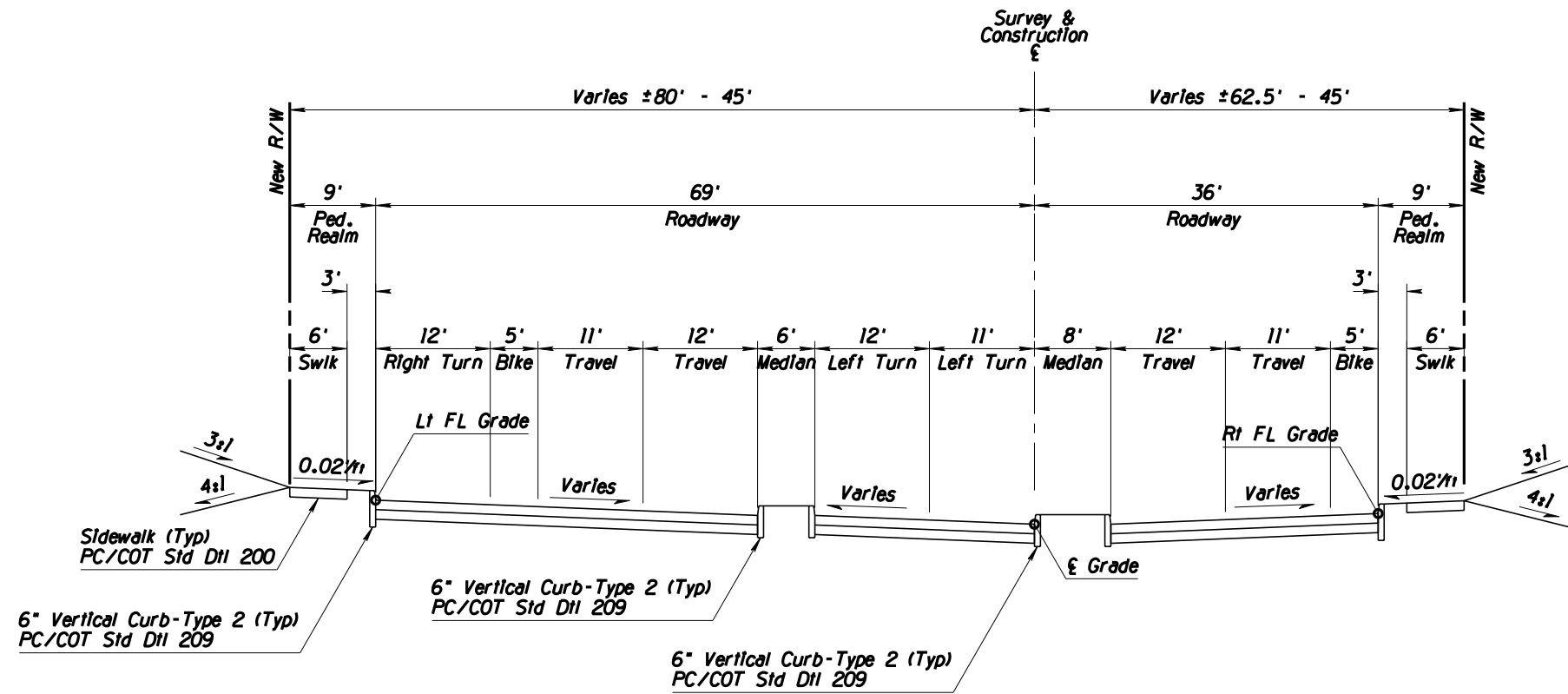
NO.	DATE	REVISION	BY	CHKD.	APPR.

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX08
TUCSON BLVD/TREAT AVE/PALO VERDE BLVD/DODGE BLVD				OF
TYPICAL SECTIONS				TX10
CITY OF TUCSON	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>M. Huggins</b>	11/09	_____	25
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	OF
				291

PLANS ARE NOT  
FOR CONSTRUCTION



TYPICAL SECTION  
Country Club Road

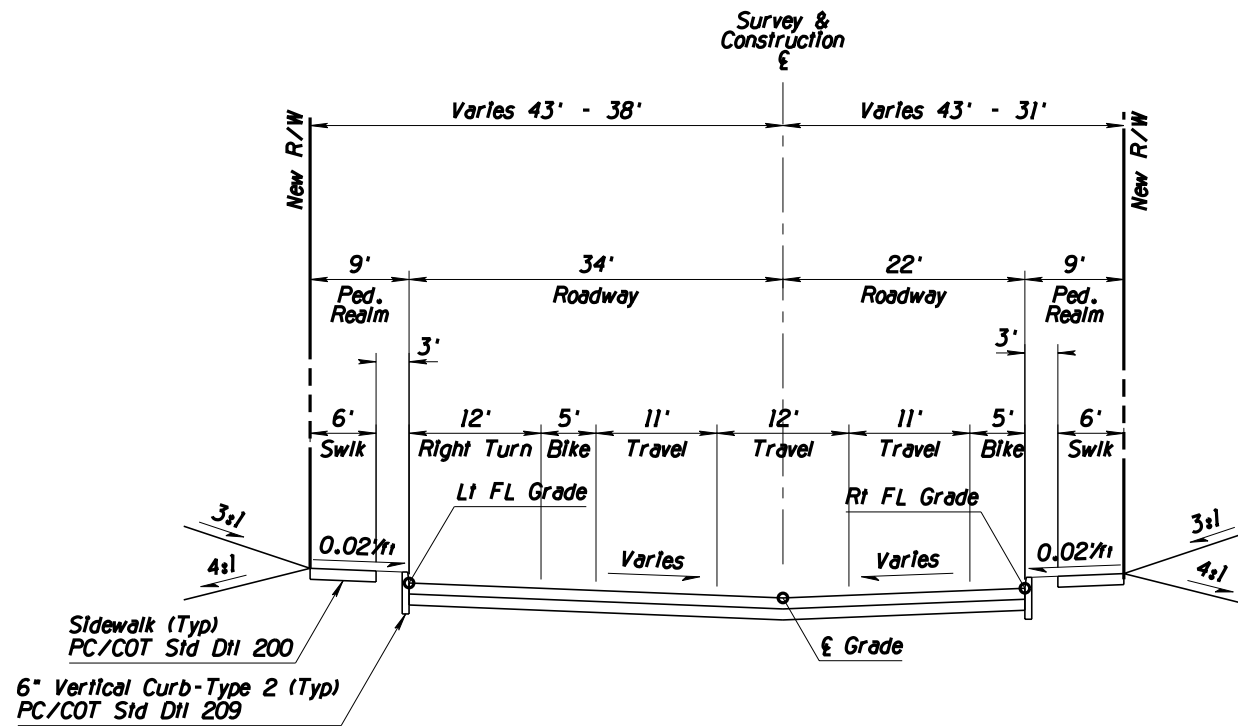


TYPICAL SECTION  
Alvernon Way

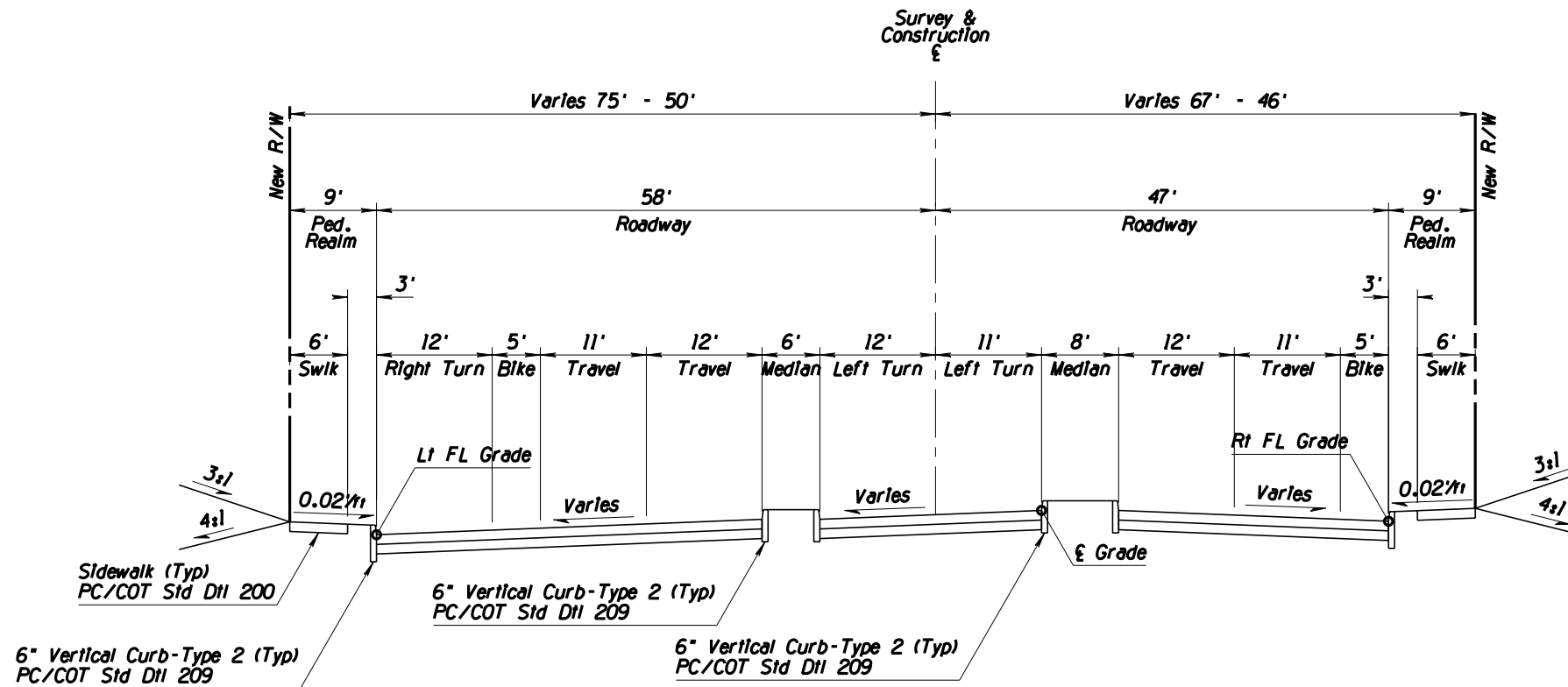
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		DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION <b>COUNTRY CLUB ROAD/ALVERNON WAY</b> TYPICAL SECTIONS		TX09 OF TX10
		DSON. BY <b>B. Beenken</b> 11/09 DRWN. BY <b>M. Huggins</b> 11/09 CHKD. BY <b>C. Colson</b> 11/09	REF. _____ SCALE: <b>NTS</b>	26 OF 291
PLANS ARE NOT FOR CONSTRUCTION		PLAN NO. _____		

NO.	DATE	REVISION	BY	CHKD.	APPR.



TYPICAL SECTION  
 Columbus Blvd



TYPICAL SECTION  
 Swan Road



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 FOR CONSTRUCTION

DEPARTMENT OF TRANSPORTATION/ENGINEERING DIVISION				TX10
COLUMBUS BLVD/SWAN ROAD TYPICAL SECTIONS				OF TX10
	DSGN. BY <b>B. Beenken</b>	11/09	REF. _____	SCALE: NTS
	DRWN. BY <b>M. Huggins</b>	11/09	_____	27
	CHKD. BY <b>C. Colson</b>	11/09	PLAN NO. _____	OF 291