



**BOARD OF SUPERVISORS AGENDA ITEM REPORT**

Requested Board Meeting Date: January 2, 2018

**Title:** Santa Rita Ranch II, Lots: 234-271 and 272-301, P1203-090

**Introduction/Background:**

Acceptance of the above referenced Project/Roadway into the Pima County Maintenance System.

**Discussion:**

Project/Roadway Improvements have been completed and dedicated to Pima County and Recorded as Public Right-of-Way. Recommendation is made to accept the attached roadways into the Pima County Maintenance System.

**Conclusion:**

If Approved:

Public improvements completed adjacent to these Subdivision Lots and/or Roadway will be maintained by the Pima County Department of Transportation.

If Denied:

Recently completed improvements to the above referenced Project/Roadway will not be maintained by the Pima County Department of Transportation.

**Recommendation:**

Acceptance of the attached roadways/subdivision improvements into the Pima County Maintenance System.

**Fiscal Impact:**

No cost to the Department for these improvements. If accepted into the Maintenance System there will be a cost associated with the maintenance, however not immediately since it is new construction.

**Board of Supervisor District:**

1       2       3       4       5       All

Department: Transportation Telephone: 520-724-2650

Contact: Martin Landin Telephone: 520-724-2819

Department Director Signature/Date: James Cunningham 11-27-2017

Deputy County Administrator Signature/Date: [Signature] 12/5/17

County Administrator Signature/Date: C. R. [Signature] 12/16/17



# PUBLIC PAVING, PUBLIC SEWER and DRAINAGE IMPROVEMENT PLANS

## FOR SANTA RITA RANCH II, LOTS 234-271 (M/P 59/63) P1203-090 ALL STREETS ARE PUBLIC

### GENERAL PAVING NOTES

- ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA COUNTY DEPARTMENT OF REGION STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/CDT SSP), 2003 EDITION.
- THE BASIS OF ELEVATION FOR THIS SUBDIVISION ARE:
  - AMERSON SURVEYING POINT NO. 2 WHICH IS A 3" X 1/2" OLD BRASS CAP UP 0.5 FEET MARKED "221, 524, 525, 1940" AND THE LOCATION IS 0.1 FEET NORTH OF THE INTERSECTION OF HOUGHTON ROAD AND CAMINO ALBUJILA, 32 FEET WEST OF THE EDGE OF PAVEMENT OF HOUGHTON ROAD AND EAST OF A 15' MESQUITE TREE. THE ELEVATION IS 5,531.56 FEET. THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION'S ID NUMBER IS N45051. BENCHMARK IS ON N45051.
  - AMERSON SURVEYING POINT NO. 20 AND IS A 5/8" IRON REBAR UP 0.50 FEET MARKED "19220.1" EAST AND THE LOCATION IS AT THE INTERSECTION OF HOUGHTON ROAD AND LEXINGTON STREET, APPROXIMATELY 13.5 FEET WEST OF THE EDGE OF PAVEMENT OF HOUGHTON ROAD, SOUTH OF A STUMP SIGN. THE ELEVATION IS 5,448.88 FEET. THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION'S ID NUMBER IS N45050. BENCHMARK IS ON N45051.
  - AMERSON SURVEYING POINT NO. 23 WHICH IS A 3-1/2" OLD BRASS CAP MARK "511, 516, 524, 518, 1912" AND THE LOCATION IS AT THE SOUTHEAST CORNER OF SECTION 13, T17S, R15E.
- THE BASIS OF BEARING FOR THIS SUBDIVISION IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 13, AS SHOWN ON THE PLAN OF SANTA RITA BEL AIR HILLS, RECORDED IN BOOK 52 OF MAPS AND PLATS AT PAGE 56. BEARING BEING S89°01'11"E.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
- THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL "BEFORE YOU DIG" AT 1-800-253-5348, A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATING.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
- ALL REVISIONS MUST BE APPROVED BY PIMA COUNTY DEPARTMENT OF DEVELOPMENT SERVICES PRIOR TO CONSTRUCTION.
- THE DESIGN SPEED FOR ROADWAYS IS 25 MPH. THE DESIGN VEHICLE IS HD-40.
- ALL GRADING WORK SHALL CONFORM TO GRADING STANDARDS, CHAPTER 18.01 OF THE PIMA COUNTY ZONING CODE.
- AGGREGATE BASE COURSE SHALL CONFORM TO PC/CDT SSP SECTION 303.
- ASPHALTIC CONCRETE SHALL CONFORM WITH PC/CDT SSP SECTION 406, MH #2, SPECIFICATIONS. (SUBDIVISION MH 4 USE YARDS)
- ALL CONCRETE SHALL CONFORM WITH PC/CDT SSP SECTION 100A, CLASS C, 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL GIVE FORTY-EIGHT (48) HOURS NOTICE WHEN HE SHALL REQUIRE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROPERLY AUTHORIZED FOR SUCH PURPOSE FOR LAYING OUT ANY PORTION OF THE WORK. HE SHALL ALSO DIG ALL STAKE HOLES NECESSARY TO GIVE LINE AND LEVELS.
- THE CONTRACTOR SHALL PRESERVE ALL STAKES SET FOR THE LINES, LEVELS OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNLESS AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR HIS SUBORDINATES MAY HAVE FAILED TO PRESERVE SHALL BE CHARGED TO THE CONTRACTOR.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PAUL AND APPLY ALL WATER REQUIRED FOR CONSTRUCTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE CONSTRUCTION PRICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
- IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY PIMA COUNTY DEVELOPMENT SERVICES.
- 30 DAYS PRIOR TO DESTRUCTION OR REMOVAL OF CHANGES THE CONTRACTOR SHALL NOTIFY THE ARIZONA DEPARTMENT OF AGRICULTURE AT (520)628-6310.
- ALL STREET SIGNING SHALL BE DESIGNED AND INSTALLED TO CURRENT PIMA COUNTY STANDARDS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE PC/CDT SIGNING MANUAL ARE TO BE THE REFERENCES FOR SIGNING DESIGN AND INSTALLATION.
- WHEN REMOVED, EDGE LINE STRIPPING (EWS) AT THE ENTRANCES OF THE SUBDIVISION AND WHEREVER APPLICABLE, SHALL BE REINSTALLED TO CURRENT PC/CDT/SSP STANDARDS BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
- ALL STREET SIGNING AND SIGNING WORK SHALL BE COORDINATED WITH PIMA COUNTY TRAFFIC ENGINEERING DIVISION (740-5501) PRIOR TO INSTALLATION AND BEFORE OPENING STREETS TO THE PUBLIC. ALL INSTALLATIONS THAT DO NOT MEET COUNTY STANDARDS SHALL BE REPLACED BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
- FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID FOR BY THE PROJECT DEVELOPER/OWNER.
- ALL SITE GRADING AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS DETERMINED BY GIC CONSULTANTS, INC., PROJECT NO. 4610-001, REPORT DATED 01/16/10.

CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL, IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE INDICATED.

### SEWER GENERAL NOTES-SEE SHEET 4

**AS-BUILT CERTIFICATION:**  
I HEREBY CERTIFY THAT THE "RECORDED DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED, AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR \_\_\_\_\_ DATE \_\_\_\_\_  
REGISTRATION NUMBER \_\_\_\_\_ EXPIRES \_\_\_\_\_



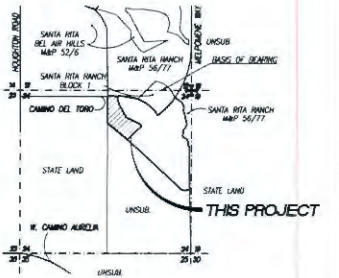
### CURVE TABLE

#	DELTA	RADIUS	LENGTH
CR	1,709.29"	800.00	183.22
C10	35,231.26"	800.00	494.19
C20	20,222.26"	800.00	284.47

### SHEET INDEX

- 1 COVER SHEET
- 2-3 PLAN & PROFILE
- 4 PLAN & PROFILE, SEWER NOTES
- 5 DETAILS
- 6 SIGNAGE & STRIPING

THIS SET OF IMPROVEMENT PLANS SHALL SERVE AS THE TYPE 2 GRADING PERMIT FOR THIS PROJECT AND SHALL BE VALID FOR THREE YEARS FOLLOWING THE DATE OF ACCEPTANCE OF SAID PLANS.



### LEGEND

- SUBDIVISION BOUNDARY
- LOTLINE
- STREET CENTERLINE
- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING SEWER LINE (APPROX. LOCATION)
- PROPOSED PUBLIC SEWER/STORMWATER
- PROPOSED WATER LINE
- EXISTING WATER LINE (APPROX. LOCATION)
- FOUND SURVEY MONUMENT
- EXISTING GAS LINE (APPROX. LOCATION)
- EXISTING OVERHEAD ELECTRIC (APPROX. LOCATION)
- EXISTING UNDERGROUND ELECTRIC (APPROX. LOCATION)
- SHEET REFERENCE
- NEW SURVEY MONUMENT PER PC/CDT 50 103
- CURB ACCESS RAMP PER PC/CDT 50 207
- BACKWATER VALVE REQUIRED
- SIGNS OF ELEVATION/BENCHMARK (SEE LOCATION MAP)

### SHEET INDEX

2-4 PLAN & PROFILE SHEETS AND DETAILS

**OWNER:**  
FIRST AMERICAN TITLE INSURANCE COMPANY,  
UNION TRUST BLDG #272

**DEVELOPER:**  
R3 HOME  
ATTN: JOHN W. HARRIS  
201 W. BONITA SUITE 105  
TUCSON, AZ 85743  
520.918.6400

#P135100020 (REV. #1) 20060220, G-2005-086, G-2013-104 G-2016-004

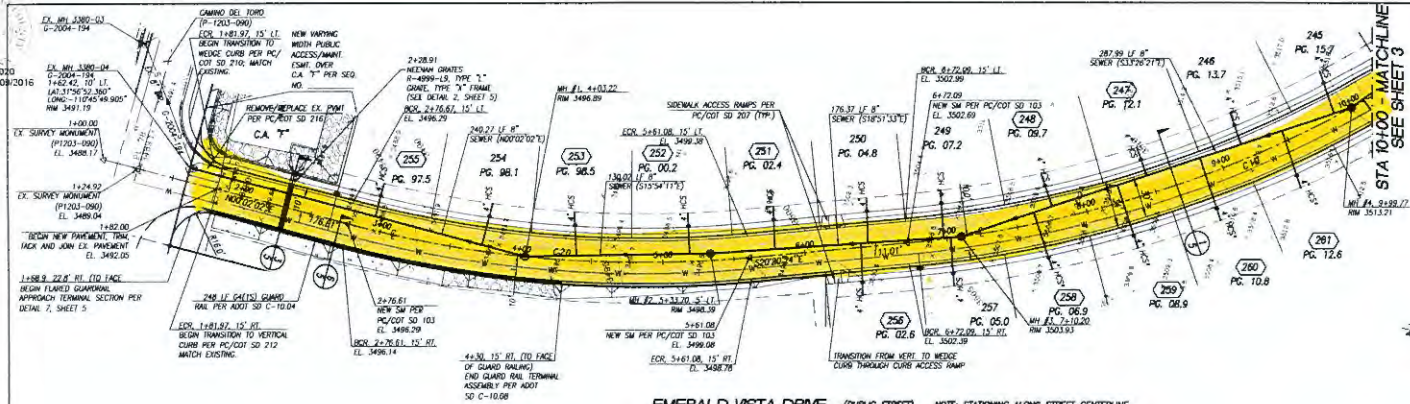
### PUBLIC PAVING, SEWER, and DRAINAGE IMPROVEMENT PLANS for SANTA RITA RANCH II, LOTS 234-271 (M&P 59/63)

**Baker & Associates Engineering, Inc.**  
3081 E. Santa Rita Drive, Suite #205 Tucson, Arizona 85718 (520) 218-1900 Fax (520) 218-1900

SCALE: DRAWN BY: DATE: CHECKED BY: REV. DATE: DESIGNED BY: DATE: DRAWING NO. SHEET NO. OF SHEETS



NO.	DATE	REVISION	BY	CHK	APP'D



**KEYNOTE**  
 ① FULL & COMPLETE TO USE OF DRY DENSITY DETERMINED IN ACCORDANCE WITH AASHTO METHODS PRIOR TO TRENCHING FOR SEWER (TYP)

**CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL, IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION**

**NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE INDICATED.**

**MANHOLE AS-BUILT INFO**

MANHOLE NO.	AS-BUILT STATE PLANE NORTHING	AS-BUILT STATE PLANE EASTING
1		
2		
3		
4		

LINE NO.	LINE DESCRIPTION	AS-BUILT STATE PLANE NORTHING	AS-BUILT STATE PLANE EASTING
245	8+90.9 25.0' 0.80	274.98	274.98
246	21+19.2 20.0' 0.60	206.1	206.1
247	2+25.2 20.0' 0.60	206.50	206.50
248	7+25.2 20.0' 0.60	66.79	66.79
249	6+99.7 20.0' 0.60	153.97	153.97
250	8+45.9 20.0' 0.60	65.8	65.8
251	2+25.2 20.0' 0.60	114.53	114.53
252	5+19.2 20.0' 0.60	115.5	115.5
253	4+27.1 20.0' 0.60	36.1	36.1
254	2+25.2 20.0' 0.60	206.14	206.14
255	2+24.9 20.0' 0.60	127.89	127.89
256	5+26.1 20.0' 0.60	103.91	103.91
257	7+21.1 20.0' 0.60	106.47	106.47
258	2+25.2 20.0' 0.60	206.1	206.1
259	8+25.6 20.0' 0.60	114.53	114.53
260	8+25.6 20.0' 0.60	115.5	115.5
261	2+25.2 20.0' 0.60	206.1	206.1

NOTE: ALL HACS TO BE INSTALLED WITH TRACER WIRE AND CLEANOUT PER DETAIL RWD 401  
 ○ BACKWATER VALVE INDICATOR  
 \* FLAT HCS



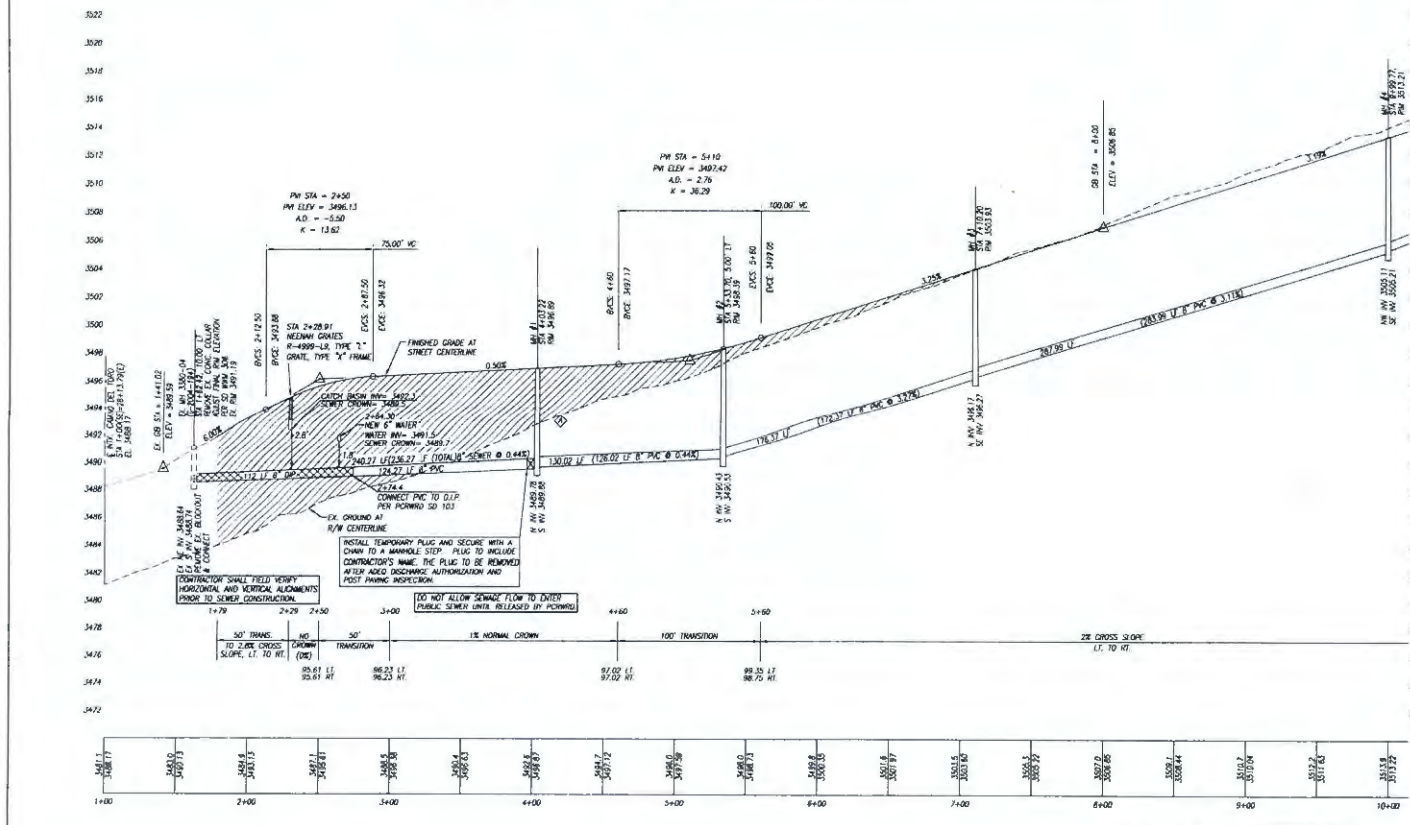
#P13S100020 (REV. #P13S000020, G-2000-068, G-2013-104) **G-2016-004**

**PUBLIC PAVING, SEWER, and DRAINAGE IMPROVEMENT PLANS**  
 for  
**SANTA RITA RANCH II, LOTS 234-271 (M&P 59/63)**

**Baker & Associates Engineering, Inc.**  
 3861 E. Sapphire Drive, Suite #225 - Tucson, Arizona 85718 (520) 218-1800 Fax (520) 218-1920



SCALE	DRAWN BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE	PROJECT NO.	SHEET NO.
AS SHOWN	MMW	12/12/15	MMW	12/12/15	MMW	12/12/15	#P13S100020	2 of 6

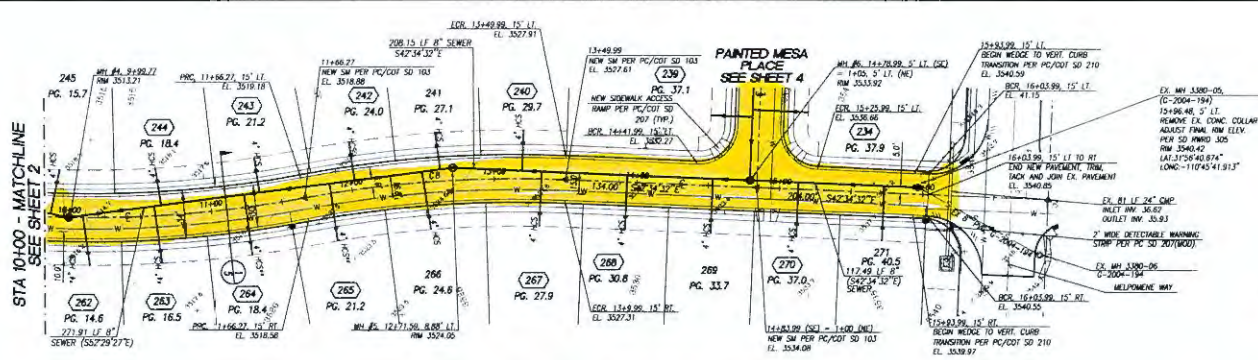


INSTALL TEMPORARY PLUG AND SECURE WITH A CHAIN TO A MANHOLE STEP. PLUG TO INCLUDE CONTRACTOR'S NAME. THE PLUG TO BE REMOVED AFTER AASHTO DISCHARGE AUTHORIZATION AND POST PAVING INSPECTION.

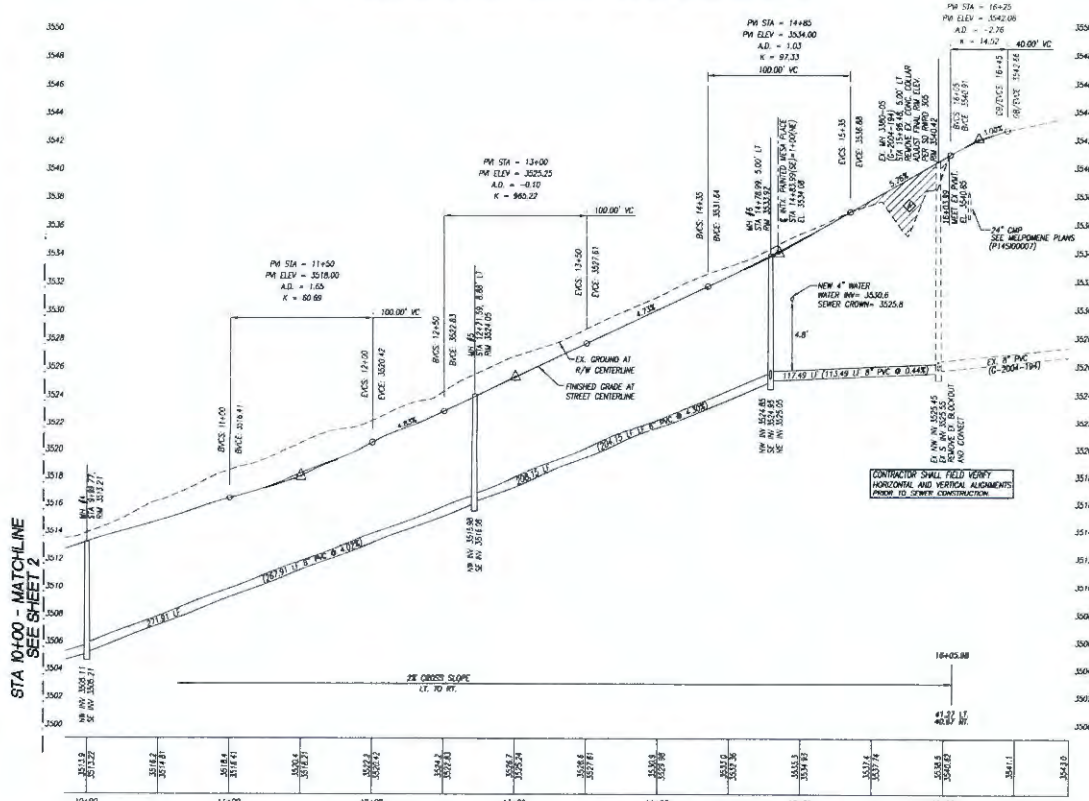
DO NOT ALLOW SEWAGE FLOW TO ENTER PUBLIC SEWER UNTIL RELEASED BY PC/MO



STATION	DATE	REVISION	BY	CHK	APPR
1+00					
2+00					
3+00					
4+00					
5+00					
6+00					
7+00					
8+00					
9+00					
10+00					



EMERALD VISTA DRIVE (PUBLIC STREET) NOTE: STATIONING ALONG STREET CENTERLINE



**KEYNOTE**  
 FILL & COMPACT TO SIDE OF DRY DENSITY DETERMINED IN ACCORDANCE WITH ARIZONA METHODS PRIOR TO TRENCHING FOR SEWER (TIP)

MANHOLE (AS-BUILT) INFO		
MH #	COORD. (X, CENTRAL) AND ELEV. INTERSECTION, FEET	
	NORTHING	EASTING
4		
5		
6		
LS800-05		

**CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL, IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION**

**NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT FINISHED GRADE UNLESS OTHERWISE INDICATED.**

LINE	MCS STA	OFFSET	MCS AND CLEARANCE	DIST. FROM TO		MCS AND CLEARANCE	DIST. FROM TO	
				DEPARTMENT	HT		DEPARTMENT	HT
							NORTHING	EASTING
240	11+25.7	25.0'	29.00	5	48.48			
247	12+41.9	25.0'	18.20	4	282.83			
242	12+05.7	25.0'	16.00	4	252.34			
243	11+35.6	25.0'	13.70	4	135.02			
244	10+43.8	25.0'	11.20	4	65.31			
265	10+14.3	25.0'	08.50	4	5.06			
267	10+42.6	25.0'	08.50	4	80.37			
264	11+24.1	25.0'	11.00	4	122.83			
262	11+05.3	25.0'	13.00	4	182.02			
266	11+25.3	25.0'	16.00	4	240.52			
267	10+32.4	25.0'	21.70	5	67.15			
268	11+24.0	25.0'	24.80	5	122.15			
269	11+43.0	25.0'	27.20	5	182.15			
270	15+11.0	25.0'	35.80	6	34			
271	15+27.0	25.0'	38.20	6	84			

NOTE: ALL MCS TO BE INSTALLED WITH FENCER WIRE AND CLEARANCE PER DETAIL RWD 401  
 ○ BACKWATER VALVE INDICATOR  
 \* FLAT MCS  
 \* FLAT, CURB MCS

#P135100020 (REV. #P135000020, G-2005-098, G-2013-104) G-2016-004

**PUBLIC PAVING, SEWER, and DRAINAGE IMPROVEMENT PLANS**  
 for  
**SANTA RITA RANCH II, LOTS 234-271 (M&P 59/63)**

**Baker & Associates Engineering, Inc.**  
 3381 E. Sunrise Drive, Suite #225 • Tempe, Arizona 85281 • (602) 318-1988 • Fax (602) 318-1920

SCALE: DRAWN BY: DATE: 12/15/15  
 MESH: C-40 DESIGNED BY: MWX REV. DATE: 01/20/16  
 CHECKED BY: MWX REV. DATE:

3 of 6

**SEWER GENERAL NOTES**

- ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRM) ENGINEERING DESIGN STANDARDS 2012 (EDS 2012) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 (SSC 2012). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PWRM WEBSITE ([www.pwrmd.gov/wwm/wwm\\_standards](http://www.pwrmd.gov/wwm/wwm_standards)).
- BASES OF ELEVATION-SEE GENERAL NOTES, PG. SHEET 1.
- THE CONTRACTOR SHALL CALL BLUE STAKE (1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL "BLUE STAKE" PRODUCTS UP-TO-DATE AND COMPLY WITH APPLICABLE ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6, SECTION 40-360.02 PERTAINING TO "BLUE STAKE" ERRORS IN "BLUE STAKE" SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL BLUE STAKE (1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION AND IMPLEMENTATION. VERIFICATION MAY REQUIRE POT-HOLING.
- HOUSE OR BUSINESS CONNECTION SEWERS (HCS OR BCS) ARE NOT PART OF THE PUBLIC SANITARY SEWER CONVEYANCE SYSTEM. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2008 ARE NOT REQUIRED TO BE BLUE STAKED. ANY HCS OR BCS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR RECONSTRUCTED, AS THE SITUATION DICTATES PER PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRM) STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RW60 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT.
- INADVERTENT HULLS WILL BE REPAIRED FOR LOTS 234, 235, 238-240, 242, 244, 247, 248, 251-253, 255, 256, 258-263, 267, 268, AND 270.
- ANY ACTIVITY THAT MIGHT AFFECT THE SANITARY SEWER SYSTEM (MATERIALS ENTERING THE SYSTEM, CONVEYANCE AND TREATMENT) REQUIRES APPROVAL AND/OR PERMIT BY PWRM PRIOR TO ANY ACTIVITY.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PEQ) HAS ISSUED A CERTIFICATE OF CONSTRUCTION AUTHORIZATION FOR THIS PROJECT AND (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRM) (SD-274-0001) (A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL MAKE FULL PAYMENT OF THE INSPECTION FEES AND OBTAIN A PWRM SEWER CONSTRUCTION PERMIT FROM THE PIMA COUNTY SEWER CONSTRUCTION PERMIT SECTION A MINIMUM OF FIVE (5) FULL BUSINESS DAYS PRIOR TO COMMENCING ANY SEWER CONSTRUCTION ACTIVITIES. THE (3) SETS OF THE CONSTRUCTION PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS (IF APPLICABLE) SHALL BE SUBMITTED WITH THE SANITARY SEWER CONSTRUCTION PERMIT APPLICATION. FIELD ENGINEERING WILL CONDUCT A MINIMUM OF 1 BUSINESS DAYS NOTIFICATION (SD-740-2051). NO WORK SHALL BE PERFORMED IN ANY CASE WITHOUT A PWRM CONSTRUCTION PERMIT.
- IMMEDIATELY REPORT ANY RELEASE OF SEWAGE, AND/OR ANY DAMAGE TO OR ON THE DRAINING OF DEBRIS INTO THE PUBLIC SANITARY SEWAGE CONVEYANCE SYSTEM TO EITHER PWRM FIELD ENGINEERING (SD-740-2051) OR PWRM CONTRACTOR DIVISION (SD-770-3400). (ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 P.M. AND 7:00 A.M., IMMEDIATELY CALL PWRM CENTRAL CONTROL ROOM (CCR) AT 520-443-6048 AND REQUEST A PWRM REPRESENTATIVE TO BE DISPATCHED TO THE SITE. TAKE IMMEDIATE ACTION TO CONTAIN THE SANITARY SEWAGE OVERFLOW (SSO) FROM THE SEWER SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM FOR ALL EXPENSES TO MITIGATE THE RELEASE AND TO COMPLETE THE RELEASE NOTICE AND FOR ANY REGULATORY FINES/LEADS INCURRED BECAUSE THE SSO ENTERED A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY PWRM.
- THE INSPECTION OF THE CONTRACTOR'S WORK BY AN AGENCY AND/OR PWRM STAFF SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONSTRUCTION PLANS AND/OR SPECIFICATIONS. IF THE ENGINEER OF RECORD OR PWRM STAFF FAIL TO POINT OUT A DEFECT, DETRICTION OR ERROR IN THE WORK FROM LACK OF DISCOVERY OR FOR ANY OTHER REASON, IT SHALL IN NO WAY PREVENT LATER INSPECTION OR REVIEW THAT THE CONTRACTOR IS PERFORMING CONNECTIONS TO THE UNDERGROUND WORK WHEN DISCOVERED. THE CONTRACTOR SHALL NOT FILE A CLAIM FOR LOSSES SUFFERED DUE TO ANY NECESSARY REMOVALS OR REPAIRS RESULTING FROM THE UNSATISFACTORY WORK.
- THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AT ALL TIMES AND PWRM MANHOLE ENTRY GUIDELINES.
- ALL TROUGH CONNECTIONS (HOLLOW-FILL) SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF SANITARY SEWERS TO A MINIMUM OF A FEET DEEP OUT OF THE SEWER PIPE AND CONNECTION AS INDICATED ON THE PLANS OR AS OTHERWISE DIRECTED BY PWRM.
- BEDDING, SHADING, AND TRENCH BACKFILL COMPACTOR SHALL BE IN ACCORDANCE WITH DETAIL RW 1000-106. OR AS SHOWN ON THE PLANS. SHOULDER GRAUND MUST BE UNANTICIPATED SOIL CONDITIONS BE ENCOUNTERED, THE BEDDING SHALL BE MODIFIED BY THE ENGINEER OF RECORD AND APPROVED BY PWRM.
- SANITARY SEWER CONSTRUCTION SHALL START AT THE LOWEST DOWNSTREAM POINT AND PROGRESS UPSTREAM, REGARDLESS OF THE STANDING WATER ON THE PLANS. IF NOTE THE CONTRACTOR SHALL PROVIDE AN OUT OF SEQUENCE LETTER FOR APPROVAL BY PWRM.
- THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SEWER LINES SHALL COMPLY WITH A.A.C. 918-5-502 AND S.D. RW60-109.
- ACCORDING TO THE REVISED "BLUE STAKE LAW" (ARS 40-360.02) THROUGH 40-360.03, THIS PROJECT IS SUBJECT TO THE NEW SERVICE LATEST DESIGN AND CONSTRUCTION REQUIREMENTS PER SUBSECTION 5.3.3 OF THE PWRM ENGINEERING DESIGN STANDARDS 2012 AND S.D. RW60-401 AND RW60-404.
- NEW PUBLIC SEWER FACILITIES MUST BE TESTED, INSPECTED AND AUTHORIZED FOR DISCHARGE OF PWRM AND USE PRIOR TO EXCAVATING AND THE EXISTING PUBLIC SANITARY SEWER.
- AS-BUILT SEWER PLANS ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PWRM AND SHALL COMPLY TO SUBSECTION 1.4.7 OF THE PWRM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012. SUBMIT THREE BLACK LINE COPIES AND AN ELECTRONIC VERSION TO THE PWRM FIELD ENGINEER.
- ONLY PLANS ACCEPTED BY PWRM SHALL BE USED FOR THE INSTALLATION OF SANITARY SEWER FACILITIES. PLANS ACCEPTED BY PWRM REQUIRING REVISION SHALL BE REASSEMBLED FOR REVIEW AND RE-ACCEPTANCE BY PWRM PRIOR TO START OF THE REVISED WORK.
- SEWER CONSTRUCTION WILL NOT BE ACCEPTED BY PWRM IF IT INCLUDES ADDITIONAL WORK NOT PROVIDED IN THE APPROVED SET OF PLANS. SEE SUBSECTION 1.4.5 OF THE PWRM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 REGARDING THE APPROVAL OF FIELD CHANGES.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLE STRUCTURES AT ALL TIMES.
- ALL LANDSCAPING LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF THE PUBLIC SANITARY SEWER AND MANHOLES AND/OR WITHIN THE PUBLIC SEWER EASEMENT SHOWN HEREON SHALL BE IN ACCORDANCE WITH THE PLANTING GUIDELINES CONTAINED WITHIN PWRM ENGINEERING DESIGN STANDARDS 2012, SECTION 7.7.

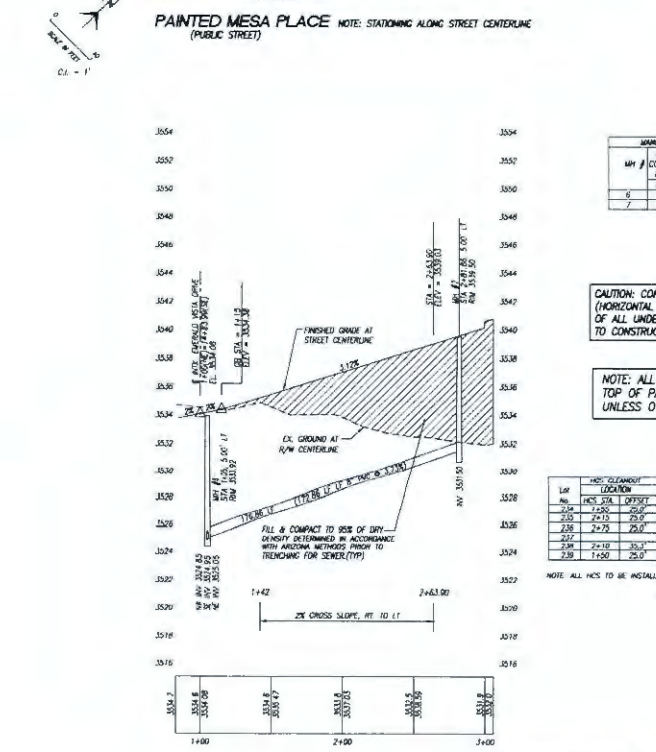
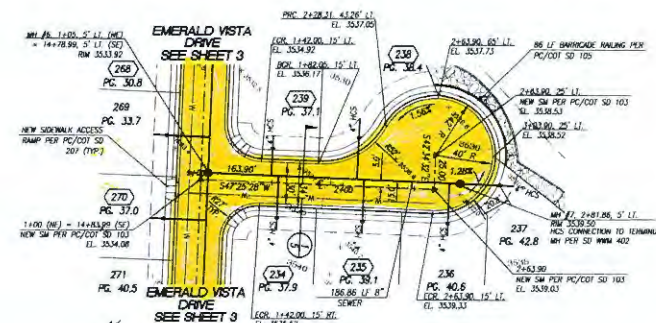
- ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED SO AS TO PREVENT ALL STORM WATER CONSTRUCTION WATER FUELS, CHEMICALS, OR LEADS TO BE DIRECTED INTO OR OVER ANY SANITARY SEWER FACILITIES. PROTECTION OF SANITARY SEWER FACILITIES SHALL BE A PART OF THE APPROVED CONSTRUCTION SWPPP AND BEST MANAGEMENT PRACTICES. PROTECTION DEVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL POTENTIALLY AFFECTED SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO THE USE OF MUD STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY PWRM.
- ALL PROJECT ACTIVITIES MUST BE KEPT WITHIN THE PROJECT AREAS. A CAUTION MUST BE NOTED CONCERNING HUMAN BURIALS. ARCHAEOLOGICAL CLEARANCE REQUIREMENTS DO NOT EXEMPT THE DEVELOPMENT FROM COMPLIANCE WITH STATE BURIAL PROTECTION LAWS. IN THE EVENT THAT HUMAN REMAINS, INCLUDING HUMAN SKELETON REMAINS, OR OTHER ARCHAEOLOGICAL OBJECTS AND FUNERARY OBJECTS ARE FOUND DURING EXCAVATION OR CONSTRUCTION, CEASING DISTURBING ACTIVITIES MUST CEASE IN THE IMMEDIATE VICINITY OF THE DISCOVERY. STATE LAWS ARS 41-865 AND ARS 41-864 REQUIRE THAT THE ARIZONA STATE MUSEUM BE NOTIFIED BY THE DISCOVERER AT 520-441-4700 SO THAT CULTURAL GROUPS WHO CLAIM CULTURAL OR RELIGIOUS AFFINITY TO THEM CAN MAKE APPROPRIATE ARRANGEMENTS FOR THE RELOCATION AND REBURIAL OF THE REMAINS. THE HUMAN REMAINS WILL BE RELOADED FROM THE SITE BY A PROFESSIONAL ARCHAEOLOGIST. PENDING CONSULTATION AND REVIEW BY THE ARIZONA STATE MUSEUM AND THE CONCERNED CULTURAL GROUPS.
- SURVEY CUT SHEETS SHALL BE DEVELOPED IN ACCORDANCE WITH SUBSECTION 3.2.3(A)(4) OF THE PWRM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012. CERTIFIED CUT SHEETS SHALL BE SUBMITTED TO THE PWRM FIELD ENGINEER PRIOR TO COMMENCEMENT OF SEWER CONSTRUCTION. THE CUT SHEETS ARE FOR THE PROJECT FILE AND COMMENCEMENT OF SEWER CONSTRUCTION WILL NOT BE DELAYED DUE TO REVIEW OF THE GUARANTEE. ANY ERRORS OR OMISSIONS RESULTING IN IMPROPER SEWER CONSTRUCTION SHALL NOT BE THE RESPONSIBILITY OF PWRM. REFER TO SUBSECTION 3.2.3(A)(4) FOR ALIGNMENT VERIFICATION REQUIREMENTS INCLUDING THE SPACING REQUIREMENTS FOR GRADE STAKES.
- SURVEY LAYOUT AND SURVEY CONTROL SHALL BE PERFORMED BY, OR UNDER THE DIRECT SUPERVISION OF, A REGISTERED LAND SURVEYOR (RLS) REGISTERED IN THE STATE OF ARIZONA PRIOR TO THE START OF SURVEY ACTIVITIES. THE INDIVIDUAL OR COMPANY RESPONSIBLE FOR SURVEY LAYOUT AND CONTROL SHALL CONTACT THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION, SURVEY SECTION, DANIEL FREEMAN, RLS, SURVEY MANAGER, AT 520-740-3209 TO ARRANGE A MEETING TO REVIEW SURVEY CONTROL, HORIZONTAL AND VERTICAL, TO BE UTILIZED ON THE PROJECT.
- ALL NEW PUBLIC SEWER MANHOLES SHALL BE 4'-0" DIA. PER PWRM SD 205 UNLESS OTHERWISE NOTED.
- WHERE CONNECTIONS TO EXISTING MANHOLES ARE TO BE MADE, THE CONTRACTOR SHALL CONSTRUCT NEW WEIRS IN THE EXISTING BASE TO SMOOTHLY DIRECT THE FLOW IN THE PROPER DIRECTION.
- DUCTILE IRON PIPE 6 INCHES AND GREATER IN DIAMETER, FITTINGS AND METAL COUPLINGS SHALL HAVE AN APPROVED INTERIOR LINING. ALL SPI SHALL BE INSTALLED WITH AN APPROVED EXTERIOR POLYETHYLENE WRAPPING.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS ARE TO BE IN ACCORDANCE WITH THE PWRM STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RW60 211, 212, 304 OR PWRM 305 (AS APPLICABLE) AND DETAIL RW60 306. WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT FRAMES AND COVERS ARE CLEANED OF ANY AND ALL ATTACHED MATERIALS (FASPHAL, CONCRETE, ETC.) AND THAT ANY VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS. IF THE FRAME AND COVER ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED, A NEW FRAME AND COVER ARE TO BE PUT INTO PLACE. COSTS ASSOCIATED WITH THESE ACTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRM) STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RW60 211 & 218 FOR FRAME AND COVER REQUIREMENTS.
- THIS PUBLIC SEWER IS DESIGNED AT MINIMUM ALLOWABLE PIPE SLOPE. SPECIAL CASE SHOULD BE TAKEN TO ASSURE DESIGN SLOPE IS MAINTAINED. SEWERS FOUND TO BE CONSTRUCTED AT INSUFFICIENT SLOPES WILL NOT BE ACCEPTED BY PWRM AND/OR AEGS. CORRECTIVE ACTION, INCLUDING RE-CONSTRUCTION OF THE SEWERS AT THE SOLE EXPENSE OF THE PROJECT, CONSTRUCTION WOULD BE REQUIRED. AS-BUILT PLANS SHALL BE REQUIRED FOR ALL NEW PUBLIC SEWERS PRIOR TO FINAL ACCEPTANCE.
- THE WORDS "PIMA COUNTY SANITARY SEWER" SHALL BE IMPRINTED ONLY ON COVERS OF MANHOLES WHICH ARE TO BE PART OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRM) SANITARY SEWER CONVEYANCE SYSTEM. SEWER MANHOLE COVERS ON CONVEYANCE SYSTEMS TO BE OWNED AND OPERATED BY ANYONE OTHER THAN PIMA COUNTY SHALL HAVE COST INTO THEM THE WORDS "PRIVATE SEWER".



THE FOLLOWING LOTS REQUIRE THAT A.C.S. 250-244, 268 AND THE FOLLOWING LOTS REQUIRE THAT A.C.S. 250-244, 268 TO PROVIDE MINIMUM CONVEYANCE REQUIREMENTS.

**SPECIAL FLAT/DIP HCS DETAIL MODIFIED STD. DTL. #401**

(REFER TO SD RW60 401 FOR ADDITIONAL REQUIREMENTS)



**MANHOLE AS-BUILT INFO**  
AS-BUILT STATE FRAME  
M&P COVERS (AS CENTERS) AND 8" INTERNATIONAL FEET  
NORTHING EASTING

**CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL, IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION**

**NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE INDICATED.**

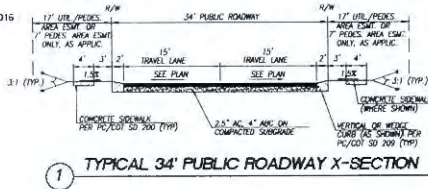
#P153100020 (REF. #P153000020, G-2005-088, G-2013-104) **G-2016-004**

**PUBLIC PAVING, SEWER, AND DRAINAGE IMPROVEMENT PLANS**  
for  
SANTA RITA RANCH II, LOTS 234-271 (M&P 59/63)

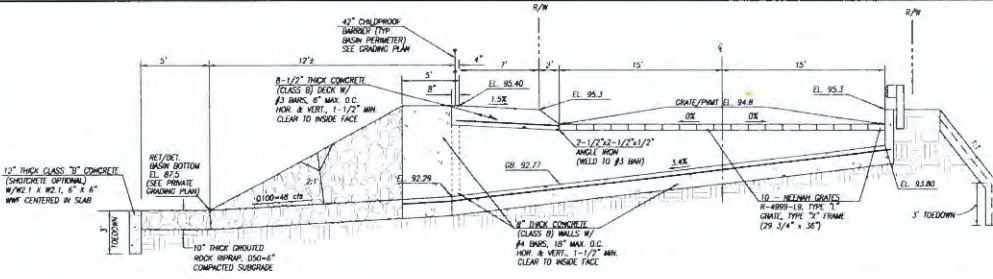
**Baker & Associates Engineering, Inc.**  
3041 E. Southern Drive, Suite #205, Tucson, Arizona 85718 (520) 318 1990 Fax (520) 318 1930

SCALE: DRAWN BY: DATE: CHECKED BY: DATE: DESIGNED BY: DATE: DRAWING NO: SHEET NO. OF 6

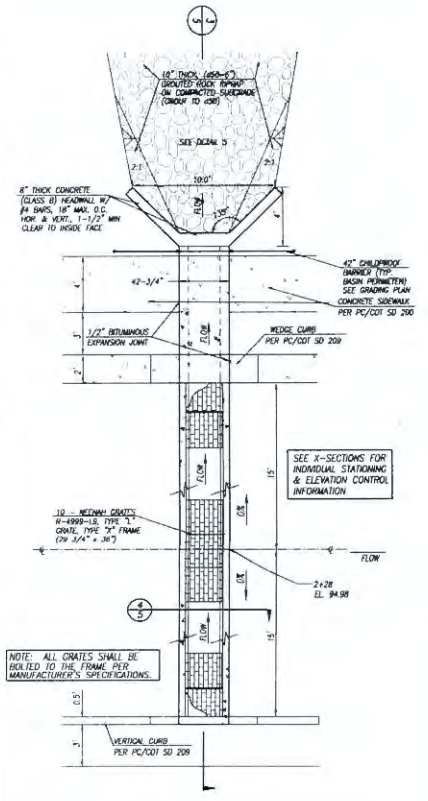
Approved 03/09/2016  
P153100020



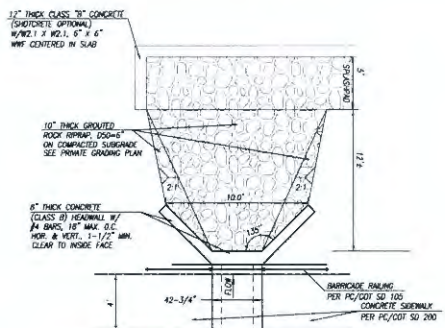
1 TYPICAL 34' PUBLIC ROADWAY X-SECTION



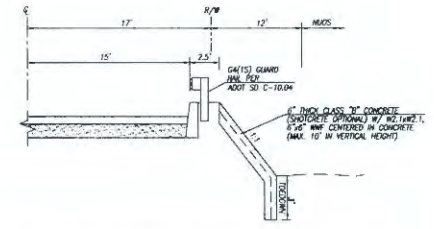
3 EMERALD VISTA DRIVE (STA 2+28.91) CATCH BASIN X-SECTION  
(MODIFIED PC/COT SD 306/309)



4 TYPICAL CATCH BASIN - X-SECTION  
(MODIFIED PC/COT SD 306/309)

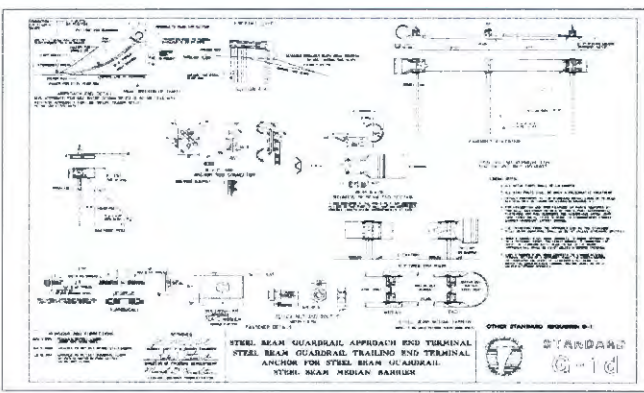


5 EMERALD VISTA DRIVE (STA 2+29)  
CATCH BASIN OUTLET DETAIL



6 EMERALD VISTA DRIVE (STA 1+82 TO 3+50)  
TYPICAL GUARD RAIL DETAIL

2 EMERALD VISTA DRIVE (STA 2+28)  
CATCH BASIN DETAIL



7 GUARDRAIL APPROACH END TERMINAL  
N.T.S. SHOW FOR REFERENCE ONLY

#P135100020 (REV. #P135000020, G-2000-068, C-2013-104) G-2016-004



Baker & Associates Engineering, Inc.  
3061 E. Cortina Drive, Suite #225 - Tempe, Arizona 85278 (520) 218-1900 Fax (520) 218-1900

SCALE:	DRAWN BY: MWP	DATE: 12/15/15	DRAWING #:
REVISION #1:	DESIGNED BY: MWP	REV. DATE: 02/08/16	PROJECT: 16-004
REVISION #2:	CHECKED BY: MWP	REV. DATE:	PLANS: P-1

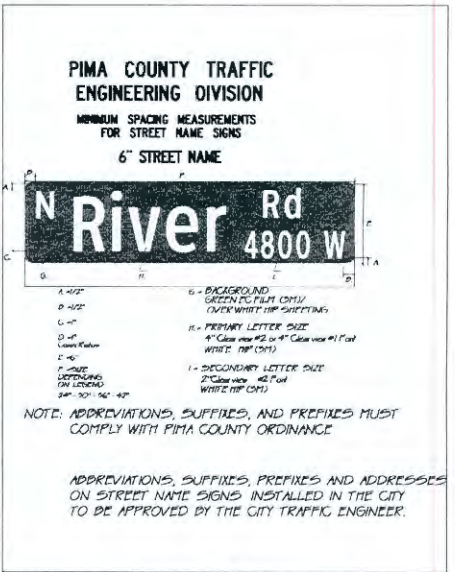
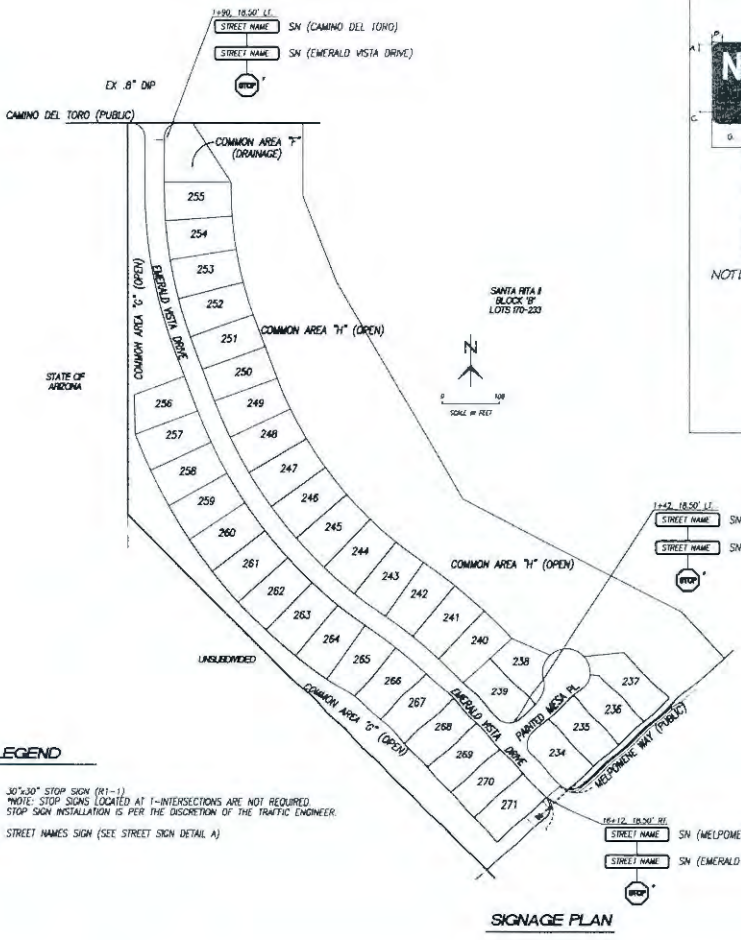
Approved 02/08/2016

**GENERAL NOTES FOR PAVEMENT MARKING PLANS**

1. ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON/PIMA COUNTY (CITY/CO) STANDARD SPECIFICATIONS AND THE STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS AND THE APPROVED PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE PC/COOT PAVEMENT MARKING DESIGN MANUAL AND APPLICABLE AMENDMENTS.
2. THE STRIPING CONTRACTOR SHALL CONTACT THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR (520-724-2624) AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY PAVEMENT MARKING LAYOUT BEING INSTALLED TO SCHEDULE INSPECTION AND APPROVAL OF PAVEMENT MARKINGS DURING NORMAL BUSINESS HOURS MONDAY THROUGH FRIDAY, STATE HOLIDAYS EXCLUDED.
3. UPON APPROVAL OF THE PAVEMENT MARKING LAYOUT, THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR WILL ISSUE WRITTEN AUTHORIZATION TO CONTRACTOR TO PROCEED WITH INSTALLING ALL PAVEMENT MARKINGS AND ASSOCIATED REFLECTIVE RAISED PAVEMENT MARKINGS.
4. THE PAVEMENT MARKING PLAN MAY BE MODIFIED AS DIRECTED AND APPROVED BY THE TRAFFIC ENGINEER OR THEIR DESIGNEE.
5. THE DESIGN SPEED FOR THE ROAD IS 25 MPH. THE DESIGN VEHICLE IS WB-40. THE POSTED SPEED LIMIT IS 25 MPH.
6. ALL LANE DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, APPLICABLE MARKING DETAILS, AND SPECIFIED PIMA COUNTY STANDARDS WHEN INSTALLING PAVEMENT STRIPING, SYMBOLS, LEGENDS, AND MARKERS.
8. PAINTED LAYOUT STRIPING SHALL BE 15 MILS (0.015") THICK, WATER BASED PAINT PLACED ON THE FINAL PAVEMENT SURFACE WITH 8 POUNDS PER GALLON OF ASPHALT M 247-13 TYPE I GLASS BEADS WITH ADHESION/MOISTURE PROOF COATING. PAINTED LAYOUT STRIPING SHALL BE INSTALLED WITHIN THE WORKING DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED.
9. PAINTED SYMBOLS AND LEGENDS SHALL BE APPLIED AT THE SAME TIME AS THE PAINTED STRIPING, WITH THE EXCEPTION OF BIKE LANE SYMBOLS AND WORDS (SUCH AS STOP, AHEAD, ONLY, ETC.).
10. THE FINAL LONGITUDINAL STRIPING SHALL BE 90 MIL (0.090") RIBBON EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE PAINTED LAYOUT STRIPING WITH A SINGLE DROP OF 10 POUNDS PER 100 SQUARE FOOT OF ASPHALT M 247-13 TYPE I GLASS BEADS. THE FINAL LONGITUDINAL STRIPING SHALL BE PLACED WITHIN 21 TO 30 CALENDAR DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED. ALL PREVIOUSLY EXISTING LONGITUDINAL MARKINGS SHALL BE APPLIED DURING THE FINAL LONGITUDINAL STRIPING.
11. ALL FINAL TRANSVERSE STRIPING, INCLUDING SYMBOLS AND LEGENDS, SHALL BE 90 MIL (0.090") ALKYL HAND DART EXTRUDED THERMOPLASTIC WITH 10 POUNDS PER 100 SQUARE FOOT OF ASPHALT M 247-13 TYPE I GLASS BEADS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING ONE CONTROL LINE PER DIRECTION OF TRAFFIC, CONSISTING OF CONTROL POINTS THAT HAVE BEEN SET TO NO MORE THAN 50 FEET APART ON CURVE SECTIONS AND 100 FEET IN STRAIGHT SECTIONS WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE CONSTRUCTION JOINT IS NO MORE THAN ONE FOOT OFFSET FROM THE FINAL STRIPING.
14. ALL RETROREFLECTIVE RIBBED PAVEMENT MARKERS (RPMA or RPMA) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C or G PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR (OR WHITE) REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW TO WHICH IT APPLIES.
15. ALL RETROREFLECTIVE RIBBED PAVEMENT MARKERS (RPMA or RPMA) SHALL BE INSTALLED PER THE CURRENT EDITION OF THE PC/COOT PAVEMENT MARKING MANUAL AND APPLICABLE AMENDMENTS.
16. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 701 OF THE PC/COOT STANDARD SPECIFICATIONS. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING COLLOCATION.
17. FOR PRIVATE DEVELOPMENT PROJECTS, THE DESIGN CONSULTANT/PROJECT MANAGER SHALL BE REQUIRED TO PRODUCE AS-BUILT STRIPING PLANS WITHIN 90 DAYS OF STRIPING COMPLETION.
18. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR.
19. UPON FINAL INSPECTION A WRITTEN ACCEPTANCE OR ITEMIZED PUNCHLIST OF MISSING OR UNACCEPTABLE PAVEMENT MARKINGS SHALL BE SUBMITTED TO THE CONTRACTOR AND PIMA COUNTY BY THE TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRIPING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC). ALL PUNCH LIST ITEMS ARE COMPLETED AND THE ONE-YEAR WARRANTY PERIOD BEGINS. IF THE PAVEMENT MARKING MANUFACTURER OFFERS A LONGER WARRANTY, THE CONTRACTOR SHALL TRANSFER THAT WARRANTY TO PIMA COUNTY.
21. THE PC/COOT PAVEMENT MARKING MANUAL IS AVAILABLE ONLINE.

**SIGNING GENERAL NOTES**

1. ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON/PIMA COUNTY (CITY/CO) "STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS" AND THE "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS", THE SPECIAL PROVISIONS AND THE PLANS.
2. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE LATEST EDITION OF THE PIMA COUNTY/CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL, THESE PLANS, AND THE SPECIAL PROVISIONS.
3. SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AT THE DISCRETION OF THE TRAFFIC ENGINEER.
4. THE DESIGN SPEED FOR THE ROAD IS 25 MPH. THE POSTED SPEED LIMIT IS 25 MPH. SIGN PLACEMENT SHALL BE BASED ON THE POSTED SPEED LIMIT.
5. POST LENGTHS INDICATED ON SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS.
6. ALL PERMANENT POSTS SHALL BE INSTALLED IN A CONCRETE FOUNDATION UNLESS OTHERWISE DIRECTED BY THE TRAFFIC ENGINEER.
7. ALL SIGN STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE TRAFFIC ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH BLUE STAMP FOR INSTALLING ALL TRAFFIC SIGNS IN THE FIELD AND FOR MAINTAINING ALL SIGNING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC). ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE-YEAR WARRANTIES BEGIN.
9. ALL OVERHEAD MOUNTED SIGNS SHALL BE DOWNHILL GRADE SHEETING, TYPE A1. ALL SCHOOL SIGNS SHALL BE FLUORESCENT YELLOW/DIRTY, DOWNHILL GRADE SHEETING, TYPE A1. ALL OTHER SIGNS SHALL BE HIGH INTERVIST PROTECTIVE SHEETING, TYPE A1. ALL GROUND MOUNTED SIGNS SHALL HAVE AN ANTI-GRAFFITI COATING APPLIED TO SIGN FACE. SEE P1100 PLAN OF COORDINATION.
10. ALL NEW SIGNS SHALL HAVE 0.000 GAUGE, PINKISH CORNER, ALUMINUM BRACING UNLESS OTHERWISE NOTED.
11. PRIOR TO DELIVERING ANY TRAFFIC SIGNS, A SIGN CONDITION INVENTORY OF ALL EXISTING SIGNS SHALL BE CONDUCTED BY THE CONTRACTOR AND PROVIDED TO THE SIGN SHOP SUPERVISOR (520-724-2611). INVENTORY SHALL INDICATE CURRENT SIGN LOCATION AND CONDITION, INCLUDING ANY EXISTING DAMAGE OR DEFICIENCIES.
12. ANY SIGNS AND POSTS BEING RE-USED ON THIS PROJECT SHALL BE STOCKPILED IN A MANNER TO AVOID DAMAGE AND MAINTAIN THE INTEGRITY OF THE SIGNS. SAFE STORAGE OF STOCKPILE AND PROTECT FROM DAMAGE TO STOCKPILE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. ALL SIGNS AND POSTS NOT BEING RE-USED ON THE PROJECT SHALL BE DISMANTLED, STACKED AND DELIVERED TO THE OWNER (CITY OR COUNTY) BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE STORAGE OF THE DISMANTLED SIGNS AND THE SAFE UNLOADING AND THE SAFE UNLOADING MATERIAL. NOTIFICATION OF DELIVERY SHALL BE MADE AT LEAST TWO WORKING DAYS PRIOR TO DELIVERY (48 HOURS). PIMA COUNTY SIGN SHOP 1313 S. HESSON ROAD (520-724-2667). NO FREIGHT DELIVERIES.



**(A) STREET SIGN DETAIL**  
N.T.S.

#P135100020 (REF: #P135000020, G-2005-088, G-2013-104) **G-2016-004**

**PUBLIC PAVING, SEWER, and DRAINAGE IMPROVEMENT PLANS**  
 for  
**SANTA RITA RANCH II, LOTS 234-271 (M&P 59/63)**

**Baker & Associates Engineering, Inc.**  
 2681 E. Savanna Drive, Suite 2025 Tucson, Arizona 85718 (520) 318-1860 Fax (520) 318-1868

SCALE: 1"=40' DATE: 12/15/15 DRAWING # 2016-P-001  
 DESIGNED BY: MWM REV: DATE: 02/08/16 DYNAMIC PAVEMENT COVERINGS PLAN # 6  
 CHECKED BY: MWM REV: DATE: 02/08/16

NO.	DATE	REVISION	BY	CHK	APPROV



# PUBLIC PAVING, DRAINAGE and SEWER IMPROVEMENT PLANS

FOR  
**SANTA RITA RANCH II, LOTS 272-301**  
(M/P 59/63)  
P1203-090  
ALL STREETS ARE PUBLIC

### GENERAL PAVING NOTES

1. ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA COUNTY/CITY OF TUCSON STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (PC/COT 509), 2003 EDITION.
2. THE BASIS OF ELEVATION FOR THIS SUBDIVISION ARE:
  - AMERSON SURVEYING POINT NO. 2 WHICH IS A 3 3/8" OLD BRASS CAP UP 10.5 FEET MARKED 5254, 5254, 5254, 19187 AND THE LOCATION IS 0.1 OF A MILE NORTH OF THE INTERSECTION OF HOUGHTON ROAD AND CAMINO AURELIA, 57 FEET WEST OF THE EDGE OF PAVEMENT OF HOUGHTON ROAD AND EAST OF A 15' MESQUITE TREE. THE ELEVATION IS 3,331.96 FEET. THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION'S 10 NUMBER IS 19187. BENCHMARK IS ON NAVD 1988.
  - AMERSON SURVEYING POINT NO. 20 AND IS A 3/8" IRON REBAR UP 9.30 FEET TAGGED "P.C.D.I. COT" AND THE LOCATION IS AT THE INTERSECTION OF HOUGHTON ROAD AND LEONOWA STREET, APPROXIMATELY 13.5 FEET WEST OF THE EDGE OF PAVEMENT OF HOUGHTON ROAD, SOUTH OF A STOP SIGN. THE ELEVATION IS 3,464.80 FEET. THE PIMA COUNTY DEPARTMENT OF TRANSPORTATION'S 10 NUMBER IS 19188. BENCHMARK IS ON NAVD 1988.
  - AMERSON SURVEYING POINT NO. 23 WHICH IS A 3-1/2" OLD BRASS CAP MARK "115, 518, 524, 518, 19187" AND THE LOCATION IS AT THE SOUTHWEST CORNER OF SECTION 13, T17S, R16E. THE ELEVATION IS 3323.08.
3. THE BASIS OF BEARING FOR THIS SUBDIVISION IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 13, 45 SHOWING ON THE PART OF SANTA RITA RANCH II, ARE LOTS, RECORDED IN BOOK 52 OF MAPS AND PLATS AT PAGE 06. BEARING BEING: S89°34'11" E.
4. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL "BLUE STAKE" AT 1-800-782-5348, A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATING.
6. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
7. ALL REVISIONS MUST BE APPROVED BY PIMA COUNTY DEPARTMENT OF DEVELOPMENT SERVICES PRIOR TO CONSTRUCTION.
8. THE DESIGN SPEED FOR ROADWAYS IS 25 MPH. THE DESIGN VEHICLE IS WB-40.
9. ALL GRADING WORK SHALL CONFORM TO GRADING STANDARDS, CHAPTER 18.01 OF THE PIMA COUNTY ZONING CODE.
10. APPROPRIATE BASE COURSE SHALL CONFORM TO PC/COT SSP SECTION 303.
11. AGGREGATE CONCRETE SHALL CONFORM WITH PC/COT SSP SECTION 406, MIX #2, SPECIFICATIONS. (SUBDIVISION MIX 4.0E V005)
12. ALL CONCRETE SHALL COMPLY WITH PC/COT SSP SECTION 1006, CLASS S, 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED.
13. CONTRACTOR SHALL GIVE FORTY-EIGHT (48) HOURS NOTICE WHEN HE SHALL REQUIRE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROPERLY AUTHORIZED FOR SUCH PURPOSE FOR LAYING OUT ANY PORTION OF THE WORK. HE SHALL ALSO DO ALL STAKE HOLES NECESSARY TO GIVE LINE AND LEVELS.
14. THE CONTRACTOR SHALL PRESERVE ALL STAKES SET FOR THE LINES, LEVELS OR MEASUREMENTS OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR HIS SUBCONTRACTORS MAY HAVE FAILED TO PRESERVE SHALL BE CHARGED TO THE CONTRACTOR.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, HALL AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN THE CONSTRUCTION PRICE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
17. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
18. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRIAGES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
19. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
20. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY PIMA COUNTY DEVELOPMENT SERVICES.
21. 30 DAYS PRIOR TO DESTRUCTION OR REMOVAL OF CURBS THE CONTRACTOR SHALL NOTIFY THE ARIZONA DEPARTMENT OF AGRICULTURE AT (520)628-5100.
22. ALL STREET SIGNING SHALL BE DESIGNED AND INSTALLED TO CURRENT PIMA COUNTY STANDARDS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE PC/COT/SSP SIGNING MANUAL ARE TO BE THE REFERENCES FOR SIGNING DESIGN AND INSTALLATION.
23. WHEN REMOVED, EDGE LINE STRIPING (MOS) AT THE ENTRANCES OF THE SUBDIVISION AND WHEREVER APPLICABLE, SHALL BE REINSTALLED TO CURRENT PC/COT/SSP STANDARDS BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
24. ALL STREET STRIPING AND SIGNING WORK SHALL BE COORDINATED WITH PIMA COUNTY TRAFFIC ENGINEERING DIVISION (740-3801) PRIOR TO INSTALLATION AND BEFORE OPENING STREETS TO THE PUBLIC. ALL INSTALLATIONS THAT DO NOT MEET COUNTY STANDARDS SHALL BE REPLACED BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
25. FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID FOR BY THE PROJECT OWNER/DEVELOPER.
26. ALL SITE GRADING AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS DETERMINED BY GBC CONSULTANTS, INC., PROJECT NO. 4650-001, REPORT DATED 01/16/11.

PROPOSED G-2016-004 (FOR LOTS 234-271) HAS BEEN APPROVED BY RWRD AND WILL COMMENCE CONSTRUCTION PRIOR TO CONSTRUCTION OF THIS PLAN. RELEASE OF THE SEWER ON THIS PLAN CANNOT BE RELEASED UNTIL G-2016-004 HAS BEEN RELEASED FOR DISCHARGE.

CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL, IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE INDICATED.

### SEWER GENERAL NOTES-SEE SHEET 3

#### AS-BUILT CERTIFICATION:

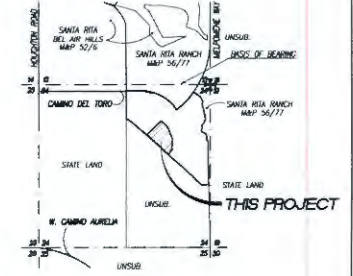
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR:	DATE:
REGISTRATION NUMBER:	EXPIRES:

#### SHEET INDEX

- 1 COVER SHEET
- 2 PLAN & PROFILE
- 3 PLAN & PROFILE, SEWER NOTES
- 4 DETAILS
- 5 SIGNAGE PLAN

THIS SET OF IMPROVEMENT PLANS SHALL SERVE AS THE TYPE 2 GRADING PERMIT FOR THIS PROJECT AND SHALL BE VALID FOR THREE YEARS FOLLOWING THE DATE OF ACCEPTANCE OF SAID PLANS.



#### LOCATION PLAN

SECTION 24, T17S, R16E,  
GEOGRAPH, PIMA COUNTY, ARIZONA

#### LEGEND

- SUBDIVISION BOUNDARY
- LOTLINE
- STREET CENTERLINE
- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING SEWER LINE (APPROX. LOCATION)
- PROPOSED PUBLIC SEWER/MANHOLE
- PROPOSED WATER LINE
- EXISTING WATER LINE (APPROX. LOCATION)
- FOUND SURVEY MONUMENT
- EXISTING GAS LINE (APPROX. LOCATION)
- EXISTING OVERHEAD ELECTRIC (APPROX. LOCATION)
- EXISTING UNDERGROUND ELECTRIC (APPROX. LOCATION)
- SHEET REFERENCE
- ▲ NEW SURVEY MONUMENT PER PC/COT 50 103
- ▲ CURB ACCESS RAMP PER PC/COT 50 287
- BACKWATER VALVE REQUIRED
- ✦ BASIS OF ELEVATION/BENCHMARK (SEE LOCATION MAP)

#### SHEET INDEX

- 2-3 PLAN & PROFILE SHEETS
- 3 DETAILS

#### OWNER:

FIRST AMERICAN TITLE INSURANCE COMPANY,  
LANDS TRUST NO. 902

#### DEVELOPER:

K3 HOME  
ATTN: JOHN W. HART  
201 N. DENVER AVENUE, 103  
TUCSON, AZ 85745  
520.918.6400

#P13S100021

(REF. #P13S000021)

G-2016-005

PUBLIC PAVING, DRAINAGE AND SEWER IMPROVEMENT PLANS

for  
SANTA RITA RANCH II, LOTS 272-301 (M&P 59/63)



**Baker & Associates Engineering, Inc.**

3045 E. Superior Street, Suite 200 • Tucson, Arizona 85714 • (520) 318-1800 • Fax (520) 318-1900

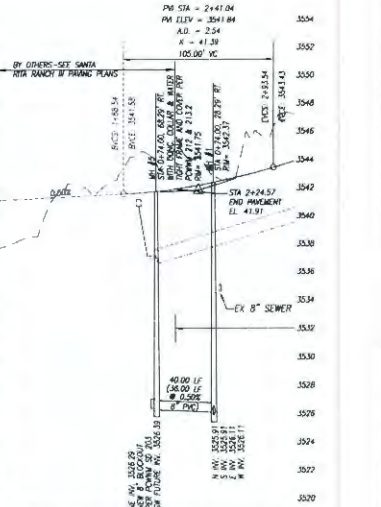
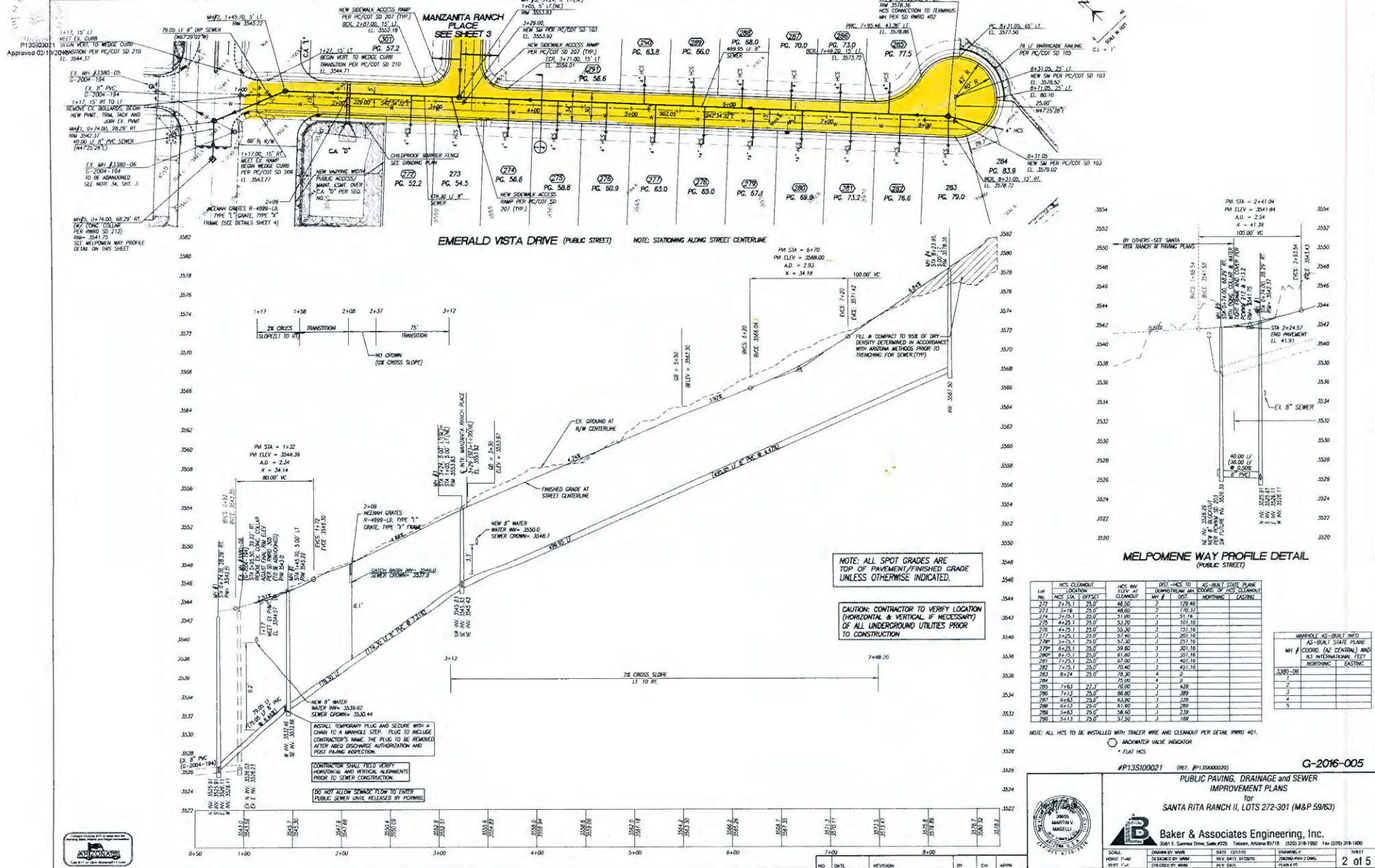
SCALE:	DRAWN BY: MWS	DATE: 03/07/15	CHECKED BY: JWH	DATE: 03/07/15	SHEET:
DATE: 03/17/15	DESIGNED BY: MWS	DATE: 03/07/15	DATE: 03/07/15	DATE: 03/07/15	1 of 5
DATE: 03/17/15	CHECKED BY: MWS	DATE: 03/07/15	DATE: 03/07/15	DATE: 03/07/15	



NO.	DATE	REVISION	BY	CHK	APPV



Approved CD 119 CONSTRUCTION PER PC/COT SD 210  
 EL. 3544.57



NOTE: ALL SPOT GRADES ARE TOP OF PAVEMENT/FINISHED GRADE UNLESS OTHERWISE INDICATED.

CAUTION: CONTRACTOR TO VERIFY LOCATION (HORIZONTAL & VERTICAL IF NECESSARY) OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION

LIFT NO.	HCS CLEAROUT LOCATION	HCS INV. ELEV. AT CLEAROUT	DIST. HCS TO		AS-BUILT STATE PLANE
			NORTHING	EASTING	
277	2+75.7	29.0	46.50	2	129.46
277	3+19	25.0	49.80	2	175.12
274	3+24.7	25.0	31.80	1	31.18
278	4+28.1	25.0	53.20	3	101.78
276	4+29.1	25.0	50.30	3	151.18
277	5+20.1	25.0	37.20	3	201.78
280	6+21.1	25.0	51.60	3	251.78
279	6+28.1	25.0	39.80	3	301.78
280	6+31.1	25.0	41.60	3	351.78
281	7+23.1	25.0	67.00	3	401.78
282	7+25.1	25.0	70.40	3	451.78
283	8+24	25.0	78.30	4	0
284			75.00	4	0
285	7+85	27.3	0.00	1	439
286	7+13	25.0	86.80	3	389
287	6+83	25.0	53.80	3	339
288	6+31	25.0	41.80	3	289
289	5+83	25.0	29.80	3	239
290	5+31	25.0	17.80	3	189

LN #	UNAPPROVED AS-BUILT INFO	
	COORD. (AZ CENTRAL)	IND. (S. INTERNATIONAL TIE)
1		
2		
3		
4		
5		

NOTE: ALL HCS TO BE INSTALLED WITH TRACER WIRE AND CLEANOUT PER DETAIL MWD 401.  
 ○ BACKWATER VALVE INDICATOR  
 \* FLAT HCS

#P13S100021 (REV. #P13S060000) **G-2016-005**

**PUBLIC PAVING, DRAINAGE and SEWER IMPROVEMENT PLANS**

SANTA RITA RANCH II, LOTS 272-301 (M&P 59/63)

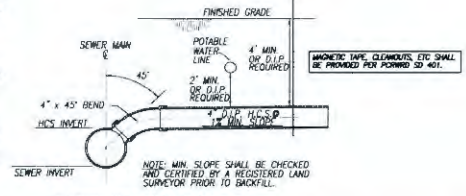
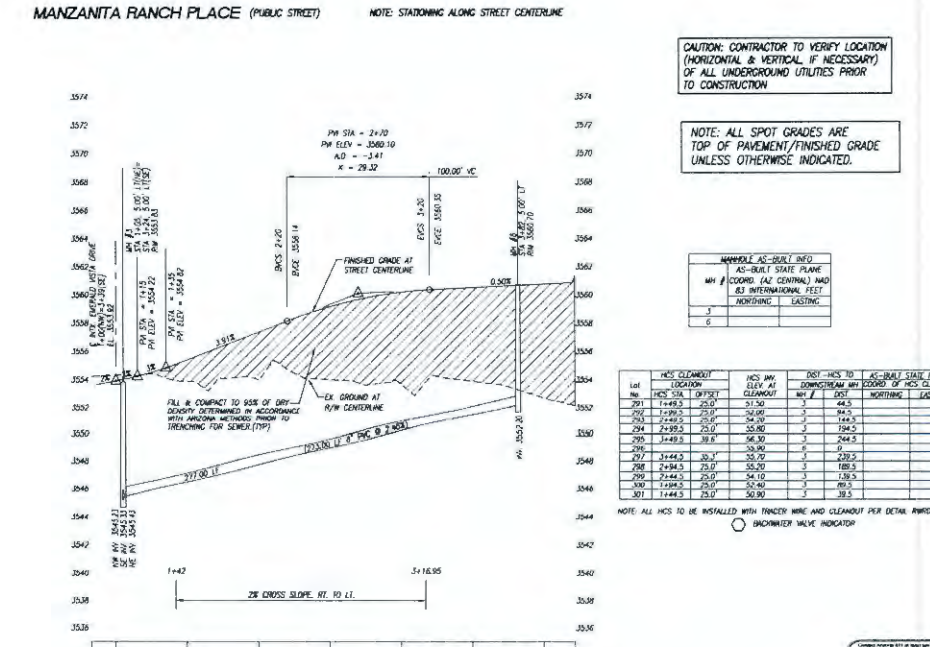
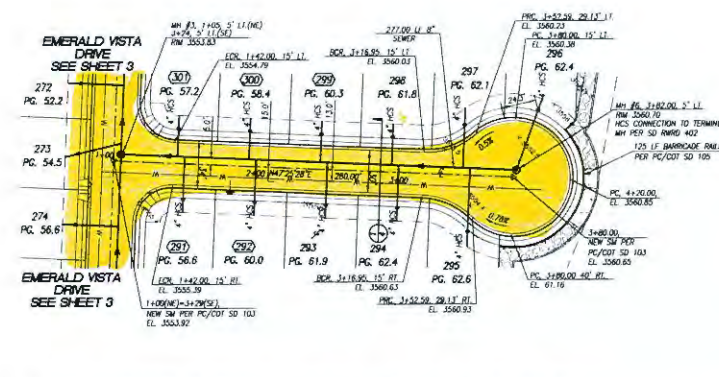
**Baker & Associates Engineering, Inc.**  
 5811 Santa Rita Drive, Suite 4725, Tustin, Arizona 85718 (520) 314-1982 Fax: (520) 314-1980

SCALE: DRAWN BY: DATE: CHECKED BY: DATE: DESIGNED BY: DATE: APPROVED BY: DATE: PERMITTED BY: DATE: 2 of 5

**SEWER GENERAL NOTES**

- ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCWRD) ENGINEERING DESIGN STANDARDS 2012 (EDS 2012) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 (SSC 2012) AND DOCUMENTS ARE AVAILABLE ONLINE AT: [www.pima.gov/water/wwr/cap\\_082.htm](http://www.pima.gov/water/wwr/cap_082.htm)
- BASES OF BELIEFS-SEE GENERAL NOTES, E2, SHEET 1
- BASES OF BELIEFS-SEE GENERAL NOTES, E2, SHEET 1
- THE CONTRACTOR SHALL CALL BLUE STAKE (1+400-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL "BLUE STAKE" REQUESTS UP-TO-DATE AND COMPLY WITH APPLICABLE AND/OR MODIFIED STANDARDS (M&S). BLUE STAKE REQUESTS APPLIED TO CONSTRUCTION SHALL PERTAINING TO "BLUE STAKE" CHANGES IN "BLUE STAKE" SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL BLUE STAKE (1+400-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO EXCAVATING.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION AND IMPLEMENTATION. VERIFICATION MAY REQUIRE POT-HOLES.
- HOUSE OR BUSINESS CONNECTIONS WHICH ARE NOT PART OF THE PUBLIC SANITARY SEWER CONFORMANCE SYSTEM - PRIVATE CONNECTION SYSTEMS CONSTRUCTED PRIOR TO JANUARY 2008 ARE NOT REQUIRED TO BE BLUE STAKED. ANY HCS/BS/CS (ENCOUNTERED DURING CONSTRUCTION) SHALL BE PROTECTED, REINFORCED, OR PROTECTED AS THE SITUATION DEMANDS PER PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCWRD) STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RWSD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT.
- UNSATURATED ANALYS WILL BE REQUIRED FOR LOTS 272, 274-282, 283-292, and 299-301.
- ANY ACTIVITY THAT MIGHT AFFECT THE SANITARY SEWER SYSTEM (MATERIALS RELIEVE THE SYSTEM, COMPLIANCE AND TREATMENT) REQUIRES APPROVAL AND/OR PERMIT BY PCWRD PRIOR TO ANY ACTIVITY.
- SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PEQ) HAS ISSUED A CERTIFICATE OF CONSTRUCTION AUTHORIZATION FOR THIS PROJECT AND (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (EDS-724-6388) (C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL MAINTAIN FULL PAYMENT OF THE INSPECTION FEES AND OBTAIN A PCWRD SEWER CONSTRUCTION PERMIT FROM THE PIMA COUNTY SEWER CONSTRUCTION PERMIT SECTION A MINIMUM OF THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING ANY SEWER CONSTRUCTION ACTIVITIES. THE EDS (S) SETS OF THE CONSTRUCTION PLANS, SPECIFICATIONS, AND SPECIAL PROVISIONS OF APPLICATION SHALL BE SUBMITTED WITH THE SANITARY SEWER CONSTRUCTION PERMIT APPLICATION. FIELD ENGINEERING REQUIRES A MINIMUM OF 3 BUSINESS DAYS NOTIFICATION (EDS-740-2851). NO WORK SHALL BE PERFORMED IN ANY CASE WITHOUT A PUBLIC CONSTRUCTION PERMIT.
- IMMEDIATELY REPORT ANY RELEASE OF SEWAGE, AND/OR ANY DAMAGE TO OR THE DROPPING OF DEBRIS INTO THE PUBLIC SANITARY SEWER CONFORMANCE SYSTEM TO EITHER PCWRD FIELD ENGINEERING (EDS-740-2851) OR APPROVED COMPLIANCE ENGINEER (EDS-724-6388) ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 P.M. AND 7:00 A.M. IMMEDIATELY CALL PCWRD CENTRAL CONTROL ROOM (CCR) AT 520-443-8348 AND REQUEST A PCWRD REPRESENTATIVE TO BE DISPATCHED TO THE SITE. FOR IMMEDIATE ACTION TO CORRECT THE SANITARY SEWER OVERFLOW (SSO) FROM THE SEWER SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, FOR ANY REGULATORY PENALTIES LEVIED ON PCWRD, AND TO PROTECT THE RELEASE AREAS FROM ANY REGULATORY PENALTIES LEVIED ON PCWRD. BECAUSE THE SSO ENTERED A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE AS DIRECTED AND APPROVED BY PCWRD.
- THE INSPECTION OF THE CONTRACTOR'S WORK BY AN AGENCY AND/OR PCWRD STAFF SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONSTRUCTION PLANS AND/OR SPECIFICATIONS. IF THE ENGINEER OF RECORD OR PCWRD STAFF FINDS A DEFECT, DEFICIENCY OR ERROR IN THE WORK FROM LACK OF DISCOVERY OR FOR ANY OTHER REASON, IT SHALL IN NO WAY PREVENT LATER DISCOVERY OR RELIEVE THE CONTRACTOR OF RESPONSIBILITY CONNECTIONS TO THE UNSATISFACTORY WORK WHEN DISCOVERED. THE CONTRACTOR SHALL NOT TAKE A CLAIM FOR LOSSES SUFFERED DUE TO ANY NECESSARY REMEDIAL OR REPAIRS RESULTING FROM THE UNSATISFACTORY WORK.
- THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AT ALL TIMES AND PCWRD MANHOLE ENTRY GUIDELINES.
- ALL ROUGH DRAINING INCLUDING FILL SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF SANITARY SEWERS TO A MINIMUM OF 4 FEET OVER THE TOP OF THE SEWER PIPE AND CONNECTION AS INDICATED ON THE PLANS OR AS OTHERWISE DIRECTED BY PCWRD.
- BEDDING, SHADING, AND TRENCH BACKFILL COMPACT SHALL BE IN ACCORDANCE WITH DETAIL M&P-104, OR AS SHOWN ON THE PLANS. SHOULD GROUND WATER OR UNSATURATED SOIL CONDITIONS BE ENCOUNTERED, THE BEDDING SHALL BE MODIFIED BY THE ENGINEER OF RECORD AND APPROVED BY PCWRD.
- SANITARY SEWER CONSTRUCTION SHALL START AT THE LOWEST DOWNSTREAM POINT AND PROGRESS UPSTREAM, REGARDLESS OF THE STATIONING SHOWN ON THE PLANS. IF NOT, THE CONTRACTOR SHALL PROVIDE AN OUT OF SEQUENCE LETTER FOR APPROVAL BY PCWRD.
- THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SEWER LINES SHALL COMPLY WITH A.A.C. 116-3-302 AND S.D. 1908-106.
- ACCORDING TO THE REVISED "BLUE STAKE" LAW (ARS 40-360.1 THROUGH 40-360.52), THIS PROJECT IS SUBJECT TO THE NEW SCIENCE LATERAL DESIGN AND CONSTRUCTION REQUIREMENTS PER SUBSECTION 3.3.5 OF THE PCWRD ENGINEERING DESIGN STANDARDS 2012 AND S.D. 1908-104 AND 1908-106.
- NEW PUBLIC SEWER FACILITIES MUST BE TESTED, INSPECTED AND AUTHORIZED FOR DISCHARGE BY PCWRD AND ADDED PRIOR TO DISCHARGING INTO THE EXISTING PUBLIC SANITARY SEWER.
- AS-BUILT SHEET PLANS ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCWRD AND SHALL CONFORM TO SUBSECTION 1.4.7 OF THE PCWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012. SHEET THREE BLACK LINE COPIES AND AN ELECTRONIC VERSION TO THE PCWRD FIELD ENGINEER.
- ONLY PLANS ACCEPTED BY PCWRD SHALL BE USED FOR THE INSTALLATION OF SANITARY SEWER FACILITIES. PLANS ACCEPTED BY PCWRD REQUIRING REVISION SHALL BE REQUIRMENTS FOR REVIEW AND RE-ACCEPTANCE BY PCWRD PRIOR TO START OF THE REVISED WORK.
- SEWER CONSTRUCTION WILL NOT BE ACCEPTED BY PCWRD IF IT INCLUDES ADDITIONAL WORK NOT PROVIDED IN THE APPROVED SET OF PLANS. SEE SUBSECTION 1.4.3 OF THE PCWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 REGARDING THE APPROVAL OF FIELD CHANGES.
- CONSTRUCTION SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLE STRUCTURES AT ALL TIMES.
- ALL LANDSCAPING LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF THE PUBLIC SANITARY SEWER AND MANHOLES AND/OR WITHIN THE PUBLIC SEWER EASEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH THE PLANNING GUIDELINES CONTAINED WITHIN PCWRD ENGINEERING DESIGN STANDARDS 2012, SECTION 7.7.

- ALL STORM WATER POLLUTION PREVENTION PLAN (PMP) MEASURES SHALL BE LOCATED SO AS TO PREVENT ALL STORM WATER CONSTRUCTION WATER FLEES, CHEMICALS, OR OILS TO BE UNRECEIVED INTO OR ONTO ANY SANITARY SEWER FACILITIES. PROTECTION OF SANITARY SEWER FACILITIES SHALL BE A PART OF THE APPROVED CONSTRUCTION SWEEP AND BEST MANAGEMENT PRACTICES. PROTECTION SERVICES SHALL BE INSTALLED AND MAINTAINED AROUND ALL POTENTIALLY AFFECTED SANITARY SEWER FACILITIES WITHIN THE PROJECT LIMITS. ADDITIONAL MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO THE USE OF RAIN STOPPERS AND MANHOLE COVERS AS DETAIL NEEDED BY PCWRD.
- ALL PROJECT ACTIVITIES MUST BE KEPT WITHIN THE PROJECT AREAS. A CAUTION MUST BE NOTED CONCERNING HUMAN REMAINS. ARCHAEOLOGICAL INVESTIGATIONS MUST NOT EXCEED THE DEVELOPMENT FROM STATE BUREAU PROTECTION LINES. IN THE EVENT THAT HUMAN REMAINS, INCLUDING HUMAN SKELETAL REMAINS, OR OTHER CULTURAL OR RELIGIOUS AFFINITY TO THEM CAN BE DISCOVERED, THE HUMAN REMAINS WILL BE REMOVED FROM THE SITE BY A PROFESSIONAL ARCHAEOLOGIST PENDING CONSULTATION AND REVIEW BY THE ARIZONA STATE MUSEUM AND THE CONCERNED CULTURAL GROUPS.
- SURVEY OUT SHEETS SHALL BE DEVELOPED IN ACCORDANCE WITH SUBSECTION 3.3.5(A)(3) OF THE PCWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012. CERTIFIED CUT SHEETS SHALL BE SUBMITTED TO THE PCWRD FIELD ENGINEER PRIOR TO COMMENCEMENT OF SEWER CONSTRUCTION. THE CUT SHEETS ARE FOR THE PROJECT FILE AND COMMENCEMENT OF SEWER CONSTRUCTION WILL NOT BE DELAYED DUE TO REVIEW OF THE DELIVERABLE. ANY ERRORS OR OMISSIONS RESULTING IN IMPROPER SEWER CONSTRUCTION SHALL NOT BE THE RESPONSIBILITY OF PCWRD. REFER TO SUBSECTION 3.3.5(A)(6) FOR ADJUSTMENT VERIFICATION REQUIREMENTS INCLUDING THE SPACING REQUIREMENTS FOR GRADE STATIONS.
- SURVEY LAYOUT AND SURVEY CONTROL SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A REGISTERED LAND SURVEYOR (RLS) REGISTERED IN THE STATE OF ARIZONA PRIOR TO THE START OF SURVEY ACTIVITIES. THE INDIVIDUAL OR COMPANY RESPONSIBLE FOR SURVEY LAYOUT AND CONTROL SHALL CONTACT THE PIMA COUNTY DEPARTMENT OF TRANSFORMATION, SURVEY SECTION, 1000 N. HIGHLAND, Rm. 301, SURVEY MANAGER, 530-740-2520 TO ARRANGE A MEETING TO REVIEW SURVEY CONTROL, (HORIZONTAL AND VERTICAL), TO BE UTILIZED ON THE PROJECT.
- WHERE CONNECTIONS TO EXISTING MANHOLES ARE TO BE MADE, THE CONTRACTOR SHALL CONDUCT NEW INSETS IN THE EXISTING MANHOLE TO SMOOTHLY DIRECT THE FLOW IN THE PROPER DIRECTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS ARE TO BE IN ACCORDANCE WITH THE PCWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RWSD 211, 212, 304 OR PCWRD 305 (AS APPLICABLE) AND DETAIL RWSD 306. WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT FRAMES AND COVERS ARE CLEARED OF ANY AND ALL ATTACHED MATERIALS (CONCRETE, ETC.) AND THAT ANY KENT HOLES ARE OPEN AND CLEAN OF OBSTRUCTIONS. IF THE FRAME AND COVER ARE DAMAGED OR CANNOT BE COMPLETELY CLEARED, A NEW FRAME AND COVER ARE TO BE PUT INTO PLACE. COSTS ASSOCIATED WITH THESE ACTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCWRD) STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012, DETAIL RWSD 213 & 216 FOR FRAME AND COVER REQUIREMENTS.
- 74.12 LINE FEET OF EXISTING 8" PUBLIC SEWER FROM MANHOLE #3380-05 TO MANHOLE #3380-06 OF PCWRD IMPROVEMENT PLAN #E-2004-174 IS TO BE ABANDONED. REMOVE SEWER COMPLETELY. SEWER SHALL NOT BE ABANDONED IN PLACE WITHOUT PCWRD APPROVAL FROM PCWRD.
- THE WORDS "PIMA COUNTY SANITARY SEWER" SHALL BE IMPRINTED ONLY ON COVERS OF MANHOLES WHICH ARE TO BE PART OF THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCWRD) SEWER CONFORMANCE SYSTEM. SEWER MANHOLE COVERS ON COMPLIANCE SYSTEMS TO BE OWNED AND OPERATED BY ANYONE OTHER THAN PIMA COUNTY SHALL HAVE CUT INTO THEM THE WORDS "PRIVATE SEWER".
- EXISTING MANHOLE #3380-06 OF PCWRD PLAN #E-2004-174 IS TO BE REMOVED. CONTRACTOR SHALL REMOVE THE FRAME AND COVER. THE DAMAGED FRAME AND COVER SHALL BE DELIVERED TO PCWRD AT THE LOCATION SPECIFIED BY THE INSPECTOR. THE MANHOLE WILL BE COMPLETELY DISMANTLED. THE LOWER FEET WILL SELECT MATERIALS AND COMPACTED WITH THE STANDARD SET BY THE AGENCY CONTROLLING THE RIGHT-OF-WAY. IN ALL CASES A MINIMUM OF 30% OF THE STANDARD PRACTICE DESIGN, IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA TEST METHOD 225, SHALL BE ACHIEVED. THE CONTRACTOR SHALL DEPOSE OF ALL MANHOLE DEMOLITION MATERIAL OFF-SITE AT A LANDFILL OR OTHER APPROVED LOCATION.



THE FOLLOWING LOTS REQUIRE FLAT HCS: 278-290 TO PROVIDE MINIMUM COVER/DEPTH REQUIREMENTS.

**SPECIAL FLAT/DIP HCS DETAIL MODIFIED STD. DTL #401**

(REFER TO SD RWSD 401 FOR ADDITIONAL REQUIREMENTS)

#P13S100021 (REV. 01/15/2008/0002)

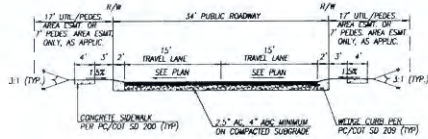
**G-2016-005**

PUBLIC PAVING, DRAINAGE AND SEWER IMPROVEMENT PLANS for SANTA RITA RANCH II, LOTS 272-301 (M&P 59/63)

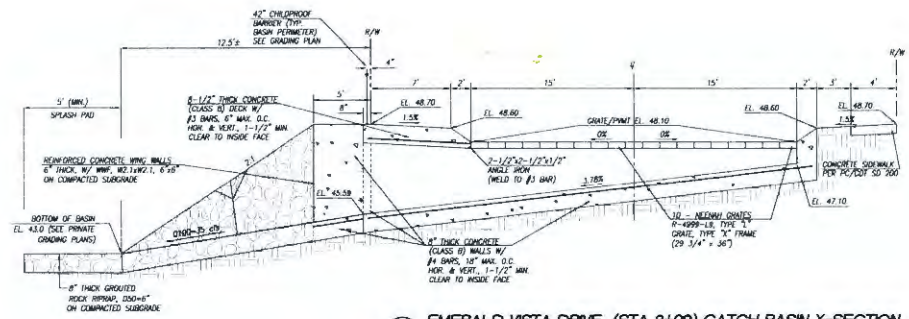
Baker & Associates Engineering, Inc.  
2861 E. Columbia Drive, Suite 1025 Tucson, Arizona 85718 (520) 218-1909 Fax (520) 218-1900

SCALE:	DESIGNED BY:	DATE:	DRAWN BY:
FORMAT: 1"=4"	REV. DATE:	PROJECT NO.:	PROJECT NO.:
WORK 1"=4"	ENGINEER'S MARK:	REV. DATE:	PLAN #:

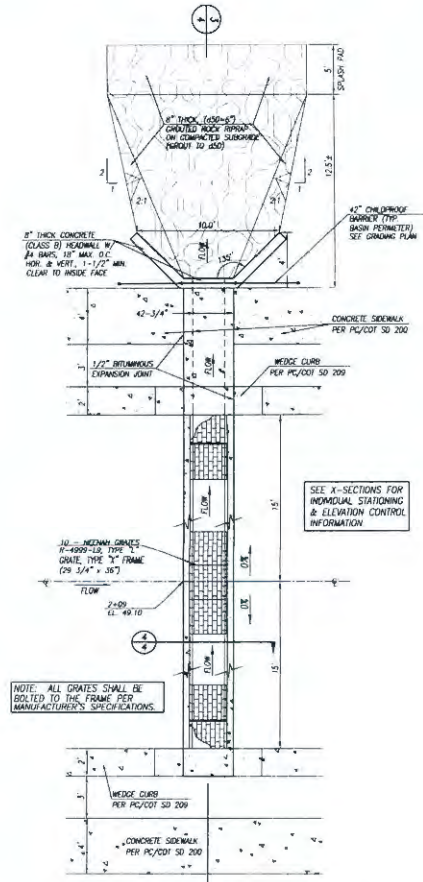
3 of 5



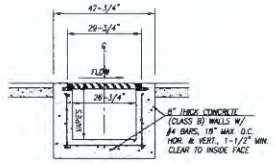
1 TYPICAL 34' PUBLIC ROADWAY X-SECTION



3 EMERALD VISTA DRIVE (STA 2+09) CATCH BASIN X-SECTION (MODIFIED PC/COT SD 306/309)



2 EMERALD VISTA DRIVE (STA 2+09) CATCH BASIN - DETAIL



4 TYPICAL CATCH BASIN - X-SECTION (MODIFIED PC/COT SD 306/309)



#P135100021 (REF. #P135000020) G-2016-005



PUBLIC PAVING, DRAINAGE and SEWER IMPROVEMENT PLANS for SANTA RITA RANCH II, LOTS 272-301 (M&P 59/63)

Baker & Associates Engineering, Inc.  
3061 E. Santa Rita Drive, Suite 600 Tucson, Arizona 85718 (520) 218-1966 Fax (520) 218-1920

NO.	DATE	REVISION	BY	CHK	APPR.

SCALE	DRAWN BY	DATE	CHECKED BY	DATE	DATE	DATE	DATE
SCALE: 1"=40'	DESIGNED BY: MWB	REV. DATE: 02/25/16	DESIGNED BY: MWB	REV. DATE: 02/25/16			

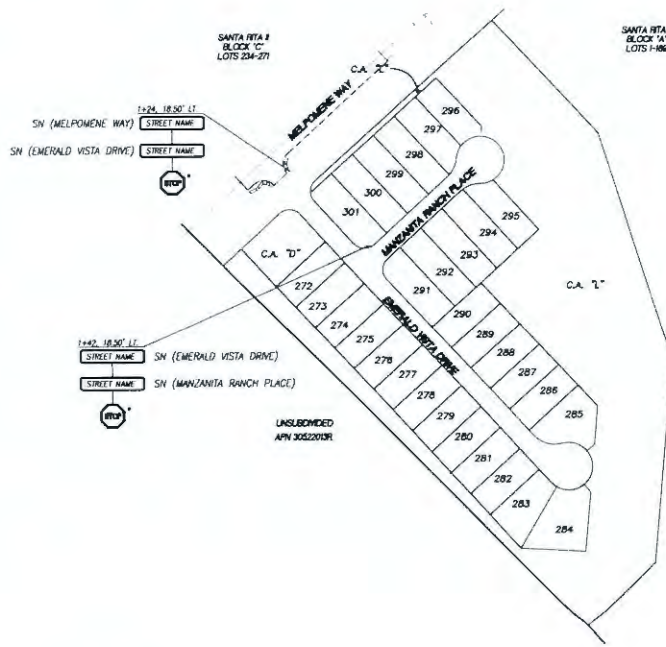
PH133100021  
Approved 02/18/2016

**GENERAL NOTES FOR PAVEMENT MARKING PLANS**

1. ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON/PIMA COUNTY (CITY/PC) STANDARD SPECIFICATIONS AND THE STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS AND THE APPROVED PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE PC/COT PAVEMENT MARKING DESIGN MANUAL AND APPLICABLE AMENDMENTS.
2. THE STRIPING CONTRACTOR SHALL CONTACT THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR (520-724-2614) AT LEAST THREE WORKING DAYS IN ADVANCE OF ANY PAVEMENT LAYOUT BEING INSTALLED TO SCHEDULE INSPECTION AND APPROVAL OF PAVEMENT MARKING DURING NORMAL BUSINESS HOURS MONDAY THRU FRIDAY, STATE HOLIDAYS EXCLUDED.
3. UPON APPROVAL OF THE PAVEMENT MARKING LAYOUT, THE PIMA COUNTY PAVEMENT MARKING SUPERVISOR WILL ISSUE WRITTEN AUTHORIZATION TO CONTRACTOR TO PROCEED WITH INSTALLING ALL PAVEMENT MARKINGS AND ASSOCIATED REFLECTIVE BASED PAVEMENT MARKINGS.
4. THE PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED AND APPROVED BY THE TRAFFIC ENGINEER OR THEIR DESIGNATEE.
5. THE DESIGN SPEED FOR THE ROAD IS 25 MPH. THE DESIGN VEHICLE IS WB-40. THE POSTED SPEED LIMIT IS 25 MPH.
6. ALL LANE DIMENSIONS ARE MEASURED FROM THE CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, APPLICABLE MARKING DETAILS, AND SPECIFIED PIMA COUNTY STANDARDS WHEN INSTALLING PAVEMENT STRIPING, SYMBOLS, LEGENDS, AND BARRIERS.
8. PAINTED LAYOUT STRIPING SHALL BE 1/2 INCH (0.015") THICK, WATER BASED PAINT PLACED ON THE FINAL PAVEMENT SURFACE WITH 8 POUNDS PER GALLON OF AGGREGATE IN 247-13 TYPE I CLASS BEARS WITH ADHESION/PRESSURE PROOF COATING. PAINTED LAYOUT STRIPING SHALL BE INSTALLED WITHIN FIVE WORKING DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED.
9. PAINTED SYMBOLS AND LEGENDS SHALL BE APPLIED AT THE SAME TIME AS THE PAINTED STRIPING, WITH THE EXCEPTION OF BIKELANE SYMBOLS AND WORDS (SUCH AS STOP, AHEAD, ONLY, ETC.).
10. THE FINAL LONGITUDINAL STRIPING SHALL BE 90 MIL (0.007") RUBBER EXTRUDED THERMOPLASTIC REFLECTORIZED STRIPING PLACED OVER THE PAINTED LAYOUT STRIPING WITH A SINGLE COAT OF 10 POUNDS PER 100 SQUARE FEET OF AGGREGATE IN 247-12 TYPE I CLASS BEARS. THE FINAL LONGITUDINAL STRIPING SHALL BE PLACED WITHIN 72 TO 300 CALENDAR DAYS OF THE FINAL PAVEMENT SURFACE BEING COMPLETED. ALL PREVIOUSLY EXEMPTED LONGLINE MARKINGS SHALL BE APPLIED DURING THE FINAL LONGITUDINAL STRIPING.
11. ALL FINAL TRANSVERSE STRIPING, INCLUDING SYMBOLS AND LEGENDS, SHALL BE 90 MIL (0.007") ALKYD HAND CARRIED EXTRUDED THERMOPLASTIC WITH 10 POUNDS PER 100 SQUARE FEET OF AGGREGATE IN 247-13 TYPE I CLASS BEARS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS ON THE FINAL SURFACE COURSE FOLLOWING ONE CONTROL LINE FOR DIRECTION OF TRAFFIC CONSISTING OF CONTROL POINTS THAT HAVE BEEN SET TO NO MORE THAN 20 FEET AWAY ON CURVE SECTIONS AND 200 FEET IN TANGENT SECTIONS WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE.
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE CONSTRUCTION JUMP IS NO MORE THAN ONE FOOT OFFSET FROM THE FINAL STRIPING.
14. ALL RETROREFLECTIVE BASED PAVEMENT MARKERS (RPMs or RPMs) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C OR D PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR (OR WHITE) REFLECTIVE FACE OF EACH MARKER IS FACING APPROACHING TRAFFIC AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW TO WHICH IT APPLIES.
15. ALL RETROREFLECTIVE BASED PAVEMENT MARKERS (RPMs or RPMs) SHALL BE INSTALLED PER THE CURRENT EDITION OF THE PC/COT PAVEMENT MARKING MANUAL AND APPLICABLE AMENDMENTS.
16. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SECTION 701 OF THE PC/COT STANDARD SPECIFICATIONS. PAINTING OVER EXISTING STRIPING DOES NOT CONSTITUTE APPROVED STRIPING CORRECTION.
17. FOR PRIVATE DEVELOPMENT PROJECTS, THE DESIGN CONSULTANT/PROJECT MANAGER SHALL BE REQUIRED TO PRODUCE AS-BUILT STRIPING PLANS WITHIN 90 DAYS OF STRIPING COMPLETION.
18. UNLESS OTHERWISE NOTED, ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY THE CONTRACTOR.
19. UPON FINAL INSPECTION A WRITTEN ACCEPTANCE OR ITEMS LIST CONSISTING OF MISSING OR UNACCEPTABLE PAVEMENT MARKINGS SHALL BE SUBMITTED TO THE CONTRACTOR AND PIMA COUNTY BY THE TRAFFIC ENGINEER OR DESIGNATED REPRESENTATIVE.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL STRIPING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC). ALL PUNCH LIST ITEMS ARE COMPLETED, AND THE ONE-YEAR MAINTENANCE WARRANTY BEGINS, IF THE PAVEMENT MARKING MATERIAL MANUFACTURER OFFERS A LONGER WARRANTY THE CONTRACTOR SHALL TRANSFER THAT WARRANTY TO PIMA COUNTY.
21. THE PC/COT PAVEMENT MARKING MANUAL IS AVAILABLE ONLINE.

**SIGNING GENERAL NOTES**

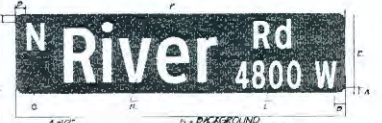
1. ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF TUCSON/PIMA COUNTY (CITY/PC) "STANDARD SPECIFICATIONS" AND THE "STANDARD DETAILS FOR PUBLIC IMPROVEMENTS", THE SPECIAL PROVISIONS AND THE PLANS.
2. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE LATEST EDITION OF THE PIMA COUNTY/CITY OF TUCSON TRAFFIC SIGNING DESIGN MANUAL, THESE PLANS, AND THE SPECIAL PROVISIONS.
3. SIGNS MAY BE MODIFIED AND LOCATIONS ADJUSTED TO FIT CONDITIONS AT THE DISCRETION OF THE TRAFFIC ENGINEER.
4. THE DESIGN SPEED FOR THE ROAD IS 25 MPH. THE POSTED SPEED LIMIT IS 25 MPH. SIGN PLACEMENT SHALL BE BASED ON THE POSTED SPEED LIMIT.
5. POST LENGTHS INDICATED ON SIGN SUMMARY SHEETS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL POST LENGTHS.
6. ALL PERFORMANCE POSTS SHALL BE INSTALLED IN A CONCRETE FOUNDATION UNLESS OTHERWISE DIRECTED BY THE TRAFFIC ENGINEER.
7. ALL SIGN STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ACTUAL SIGN LOCATIONS WITH THE TRAFFIC ENGINEER PRIOR TO THE INSTALLATION OF ALL SIGNS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH BLUE STAKE. FOR INSTALLING ALL TRAFFIC SIGNS IN THE FIELD AND FOR MAINTAINING ALL SIGNING UNTIL PROJECT IS APPROVED FOR "CONSTRUCTION ACCEPTANCE" BY PIMA COUNTY (FULLY OPEN TO TRAFFIC). ALL PUNCH LIST ITEMS ARE COMPLETED, AND ONE YEAR WARRANTY BEGINS.
9. ALL OVERHEAD MOUNTED SIGNS SHALL BE DAMAGED CRACK DETECTING TYPE II. ALL SCHOOL SIGNS SHALL BE FLUORESCENT YELLOW/GREEN DAMAGED CRACK DETECTING TYPE II. ALL OTHER SIGNS SHALL BE HIGH INTERSTY PHOSPHOR BRILLIANT SHEETING, TYPE III. ALL OVERHEAD MOUNTED SIGNS SHALL HAVE AN ANTI-GRAFFITI COATING APPLIED TO SIGN FACE, OR #1180 FLEX OR EQUIVALENT.
10. ALL NEW SIGNS SHALL HAVE 3/800 GAUGE, RIBBED CORNER, ALUMINUM ENDING UNLESS OTHERWISE NOTED.
11. PRIOR TO DESTROYING ANY TRAFFIC SIGNS, A SIGN CONDITION INVENTORY OF ALL EXISTING SIGNING SHALL BE CONDUCTED BY THE CONTRACTOR AND PROVIDED TO THE SIGN SHOP SUPERVISOR (520-724-2611). INVENTORY SHALL INDICATE CURRENT SIGN LOCATION AND CONDITION, INCLUDING ANY EXISTING DAMAGE OR DEFICIENCIES.
12. ANY SIGNS AND POSTS BEING RE-USED ON THIS PROJECT SHALL BE STORED IN A MANNER TO AVOID DAMAGE AND MAINTAIN THE INTEGRITY OF THE SIGNS. SAW SIGNAGE OR SIGNAGE BEING REMOVED FOR DAMAGE TO STORED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. ALL SIGNS AND POSTS NOT BEING RE-USED ON THE PROJECT SHALL BE DISMANTLED, STACKED AND DELIVERED TO THE OWNER (CITY OR COUNTY) BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE STORAGE AT THE CONSTRUCTION SITE UNTIL DELIVERY, AND THE SAFE UNLOADING OF THE SALVAGED MATERIAL. NOTIFICATION OF DELIVERY SHALL BE MADE AT LEAST TWO WORKING DAYS PRIOR TO DELIVERY (48 HOURS). PIMA COUNTY SIGN SHOP 1212 S. WESSON ROAD (520-724-2467), NO TRUCK DELIVERIES.



**SIGNAGE PLAN**

**PIMA COUNTY TRAFFIC ENGINEERING DIVISION**

MINIMUM SPACING MEASUREMENTS FOR STREET NAME SIGNS  
6" STREET NAME



- A-100" BACKGROUND GREEN FC FILM (3M)
- A-100" OVERWHITE P SHEETING
- A-100" PRIMARY LETTER SIZE 1 1/2" Case and 1 1/2" or 1 3/4" Case with 1 1/2" or 1 3/4" WHITE TRP (3M)
- A-100" SECONDARY LETTER SIZE 1 1/4" Case with 1 1/4" or 1 3/4" WHITE TRP (3M)

NOTE: ABBREVIATIONS, SUFFIXES, AND PREFIXES MUST COMPLY WITH PIMA COUNTY ORDINANCE

ABBREVIATIONS, SUFFIXES, PREFIXES AND ADDRESSES ON STREET NAME SIGNS INSTALLED IN THE CITY TO BE APPROVED BY THE CITY TRAFFIC ENGINEER.

**STREET SIGN DETAIL**

#P133100021 (REV. #P133000020) G-2016-005

PUBLIC PAVING, DRAINAGE AND SEWER IMPROVEMENT PLANS  
For  
SANTA RITA RANCH II, LOTS 272-301 (M&P 59/63)

**Baker & Associates Engineering, Inc.**  
5811 S. Santera Drive, Suite 4725, Tucson, Arizona 85716 | 520.318.1958 | Fax: (520) 318.1950

NO.	DATE	REVISION	BY	CHK	APPV