



GENERAL SEWER NOTES (UTILITY COORDINATION SUBMITTALS)

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWRD) ENGINEERING DESIGN STANDARDS 2012 (EDS 2012) AND THE PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2012 (SSDC 2012). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWRD WEB PAGE: [DESIGN STANDARDS, SPECIFICATIONS AND DETAILS](#).
2. 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” REQUESTS UP-TO-DATE AND COMPLY WITH APPLICABLE ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22 PERTAINING TO “BLUE STAKE”. ERRORS IN “BLUE STAKE” SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLE STRUCTURES AT ALL TIMES.
4. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION AND IMPLEMENTATION. VERIFICATION MAY REQUIRE POTHOLING.
5. 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 2006 ARE NOT REQUIRED TO BE BLUESTAKED. ANY HCS/BCS ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES PER PCRWRD SSDC 2012, STANDARD DETAIL RWRD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWRD.
6. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO EITHER PCRWRD FIELD ENGINEERING (520-740-2651) OR PCRWRD CONVEYANCE DIVISION (520-724-3400): ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWAGE SYSTEM, OR THE DROPPING OF DEBRIS INTO THE PUBLIC SANITARY SEWAGE SYSTEM. ON WEEKENDS, HOLIDAYS, OR BETWEEN 5:00 P.M. AND 7:00 A.M., IMMEDIATELY CALL PCRWRD OPERATIONS CONTROL CENTER AT (520-724-6048) AND REQUEST A PCRWRD 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 DISINFECT THE RELEASE AREAS AND FOR ANY REGULATORY PENALTIES LEVIED ON PCRWRD BECAUSE THE SSO ENTERED A NATURAL DRAINAGEWAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY PCRWRD.



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7. SEWER RELATED CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER OBSERVATION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
8. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY (PDEQ) HAS ISSUED A CERTIFICATE OF "CONSTRUCTION AUTHORIZATION" FOR THIS PROJECT, (B) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369), (C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT 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.
9. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT 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.
10. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO THE START OF SEWER CONSTRUCTION.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAME AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCRWRD SSDC 2012, STANDARD DETAILS RWRD-211, -212, -304 OR -305, AS APPLICABLE. THE CONTRACTOR SHALL PROTECT THE BENCH AND FLOW CHANNELS WITH A COVER PER RWRD-306. WHILE ADJUSTING THE MANHOLE TO FINISHED GRADE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FRAME AND COVER ARE CLEANED OF ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS. IF THE FRAME AND COVER ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED, THEY SHALL BE REPLACED WITH A NEW AND EQUIVALENT FRAME AND COVER PER STANDARD DETAILS RWRD-213, -214, -215, -215, -216, -217 OR -218. COSTS ASSOCIATED WITH THESE ACTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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- 12. FOR WASTEWATER FLOW MANAGEMENT PLAN REQUIREMENTS, SEE THE PCRWRD SSDC 2012, SECTION 2. CALL PCRWRD FIELD ENGINEERING AT (520-740-2651) FOR ALL QUESTIONS REGARDING THE PREPARATION OF FLOW MANAGEMENT PLANS. PCRWRD SSDC 2012, SECTION 2.2.1 APPLIES TO ANY PROJECT THAT REQUIRES TRENCHING WITHIN SIX (6) FEET HORIZONTALLY AND / OR TWO (2) FEET VERTICALLY OF AN EXISTING PUBLIC SEWER LINE. PRECEDING ANY WORK THAT MAY AFFECT A LIVE SEWER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO: (A) IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID AND (B) PROVIDE A FLOW MANAGEMENT PLAN THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.**
- 13. EXISTING SEWER FORCE MAINS AND ABANDONED SEWER LINE LOCATIONS SHALL BE IDENTIFIED AND MARKED PER PCRWRD SSDC 2012, STANDARD DETAIL RWRD-503.**
- 14. 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 PLANTING GUIDELINES CONTAINED WITHIN PCRWRD EDS 2012, SECTION 7.7.**
- 15. ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED SO AS TO PREVENT ALL STORM WATER, CONSTRUCTION WATER, FUELS, CHEMICALS, OR LIQUIDS TO BE DIRECTED INTO OR ONTO 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 RAIN STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY PCRWRD.**
- 16. THE CONTACTOR SHALL VERIFY THAT ALL SANITARY SEWER MANHOLE COVERS AND PICK HOLES ARE CLEAN AND FREE OF ANY CONSTRUCTION MATERIALS, DEBRIS, AND/OR OBSTRUCTIONS AFTER THE COMPLETION OF PAVING WORK. FOREIGN MATERIALS SHALL BE REMOVED FROM THE EXISTING MANHOLE COVERS REGARDLESS OF EXISTING OR NEW CONDITIONS. IF BUILD-UP IS TOO HEAVY TO BE REMOVED, THE CONTRACTOR SHALL REPLACE THE MANHOLE FRAME AND COVER.**
- 17. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A SEWER MANHOLE DURING THE CONSTRUCTION PROCESS. FAILURE FROM THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM THE MANHOLE SHALL RESULT IN PCRWRD TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.**

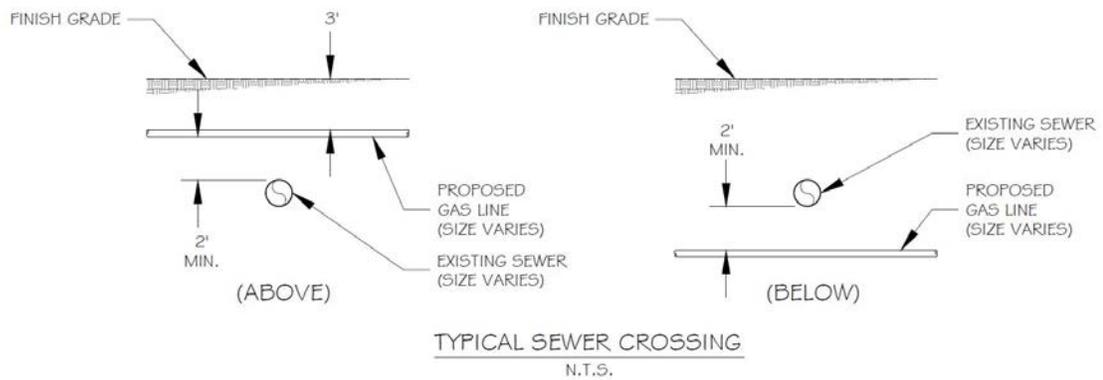
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18. IT APPEARS THERE ARE EXISTING SEWER MANHOLES WITHIN THE PROJECT LIMITS WITH FRAMES AND COVERS THAT DO NOT MATCH EXISTING PAVEMENT GRADES AND/OR COVERED WITH PAVEMENT MATERIAL. PRIOR TO COMMENCING PAVEMENT WORK, THE CONTRACTOR SHALL CONTACT PCRWRD FIELD ENGINEERING AT (520-740-2651) TO INSPECT EACH OF THE EXISTING MANHOLES AND IDENTIFY WHICH REQUIRE GRADE ADJUSTMENTS PER S.D. RWRD-304 OR -305. PCRWRD RESERVES THE RIGHT TO REQUIRE MANHOLE GRADE ADJUSTMENTS AT THE DISCRETION OF THE PCRWRD FIELD ENGINEER. IF MANHOLE GRADE ADJUSTMENTS ARE REQUIRED, THIS WORK SHALL NOT COMMENCE UNTIL: (A) CONTRACTOR HAS OBTAINED A PUBLIC SEWER CONSTRUCTION PERMIT FROM PCRWRD (520-724-6369) AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT 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.
19. THE CONTRACTOR SHALL NOTIFY THE PCRWRD CHIEF INSPECTOR (520-740-2651) AT LEAST 24 HOURS PRIOR TO TRENCH CONSTRUCTION ACROSS AN EXISTING SMALL-DIAMETER (12" DIAMETER OR LESS), SHALLOW SEWER LINE (LESS THAN 6 FEET OF COVER). REFER TO TABLE "1A" FOR SHALLOW SEWER LINE CROSSINGS IDENTIFIED WITH THIS PROJECT. THE CONTRACTOR SHALL PROVIDE THE INSPECTOR WITH THE PCRWRD MANHOLE NUMBERS WHERE THE SHALLOW SEWER LINE CROSSING IS LOCATED AND A DESCRIPTION OF THE PROPOSED CONSTRUCTION.
20. FOR PROPOSED TRENCH CONSTRUCTION ACROSS AN EXISTING LARGE-DIAMETER SEWER LINE (GREATER THAN 12 - INCHES DIAMETER) OR EXCAVATION WITHIN 6 FEET HORIZONTAL OF AN EXISTING LARGE-DIAMETER SEWER LINE, WORK IN THESE LOCATIONS SHALL NOT COMMENCE UNTIL: (A) THE CONTRACTOR HAS OBTAINED A PUBLIC SEWER OBSERVATION PERMIT FROM PCRWRD (520-724-6369), AND (B) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT INSPECTOR IS SCHEDULED, AT LEAST THREE (3) FULL WORKING DAYS PRIOR TO COMMENCING WORK IN THESE LOCATIONS. FLOW MANAGEMENT PLANS SHALL BE SUBMITTED TO FIELD ENGINEERING THIRTY (30) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. REFER TO PCRWRD STANDARDS SPECIFICATION AND DETAILS FOR CONSTRUCTION 2012, SECTION 2 FOR WASTEWATER FLOW MANAGEMENT REQUIREMENTS.

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21.

TABLE 1A (SEE NOTE 5)					
SHEET#	EX. SEWER SIZE	MH#1	MH#2	GAS PIPE SIZE	ESTIMATED SEWER COVER
X	8"	1789-05	1789-06	2"	8'
X	8"	9137-05	9139-04	2"	10'
X	8"	9203-15	9203-14	2"	9'



NOTE: THE UTILITY COORDINATION GROUP WILL DETERMINE WHICH SEWER NOTES SHALL APPLY TO YOUR PROJECT.