



BOARD OF SUPERVISORS AGENDA ITEM REPORT

Requested Board Meeting Date: 10/06/2020

Title: Hardy 30, Lots 1-84 and Common Areas "A" & "B", P17SC00054
Developer: D R Horton

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: 520-724-6410

Contact: Brian Crowninshield Telephone: 520-724-2323

Department Director Signature/Date: Quana Olvera 8/28/2020

Deputy County Administrator Signature/Date: [Signature] 9/1/2020

County Administrator Signature/Date: C. Deluberry 9/1/2020

Date: August 25, 2020

To: Ana M. Olivares, P.E.
Director

From: Brian Crowninshield, Manager
ROW Management *BC*

Robert D. Johnson *RJ*
Division Manager
Department of Transportation

Subject: **Project/Roadway:** **Hardy 30**
 Lots: **1-84 and Common Areas "A" & "B"**
 Plan Number: **P17SC00054**
 Developer/Owner: **D.R. Horton**

We have performed a Final Inspection and found the improvements to be satisfactory and in general conformance to the plans and specifications. These roadways should be submitted to the Board of Supervisors for acceptance into the County Maintenance System.

1300000



GENERAL NOTES:

1. THE DEVELOPMENT CONSISTS OF ASSessor's PARCEL NUMBERS 225-74-0000 AND 225-74-0006.
2. THE GROSS AREA OF THIS DEVELOPMENT IS 29.84 ACRES (1,799,946 S.F.).
3. THIS DEVELOPMENT IS SUBJECT TO BOARD OF SUPERVISORS ZONING CONDITIONS AS FOUND IN CASE NUMBER P15070003 AS APPROVED ON JANUARY 19, 2016. THE FOLLOWING CONDITIONS AFFECT THE ESSENCE OF PERMITS: LOTS 34-38 ARE TO BE RESTRICTED TO ONE-STORY BY FINAL PLAN.
4. PER ZONING CASE NUMBER P15070003, THE CONDITIONAL ZONING IS "CR-S" (MULTIPLE RESIDENCE).
5. THE WATER COUNTRY SHALL SERVICE THIS SUBDIVISION IS METROPOLITAN WATER DISTRICT.
6. THE DESIGN SPEED FOR ALL RESIDENTIAL STREETS IS 25 MPH. THE DESIGN VEHICLE WILL BE WB-40.
7. ALL WEATHER ACCESS WILL BE PROVIDED TO ALL LOTS WITHIN THIS SUBDIVISION.
8. MATERIALS WITHIN SIGHT VISIBILITY TRIANGLES SHALL BE PLACED SO AS NOT TO INTERFERE WITH A VISIBILITY PLANE DESCRIBED BY TWO HORIZONTAL LINES LOCATED 30 INCHES AND 72 INCHES ABOVE FINISH GRADE OF THE ROADWAY SURFACE, AND SHALL CONFORM TO SECTION 3.2 OF THE 2016 PIMA COUNTY SUBDIVISION AND DEVELOPMENT STANDARD STANDARDS.
9. THE LOCATIONS SHOWN ON THIS PLAN ARE BASED ON THE BEST INFORMATION AVAILABLE AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES WITH THE APPROPRIATE ORGANIZATIONS PRIOR TO THE START OF CONSTRUCTION.
10. ANY RELOCATION, MODIFICATION, ETC. OF THE EXISTING UTILITIES AND/OR PUBLIC IMPROVEMENTS REQUIRED BY THIS DEVELOPMENT WILL BE AT NO EXPENSE TO THE PUBLIC.
11. THE ENGINEER SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THIS PLAN. ALL REVISIONS TO THIS PLAN MUST BE APPROVED IN WRITING BY THE ENGINEER.
12. A COPY OF THE SEALS, APPROVED PLANS AND GRADING PERMIT SHALL BE KEPT ON THE JOB SITE IN AN EASY ACCESSIBLE LOCATION AT ALL TIMES DURING CONSTRUCTION.
13. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY DEVELOPMENT SERVICES.
14. ALL REVISIONS TO THESE PLANS MUST BE APPROVED BY DEVELOPMENT SERVICES PRIOR TO CONSTRUCTION.
15. THIS PLAN IS SUBJECT TO AN APPROVED RIPARIAN HABITAT MITIGATION PLAN.
16. TOTAL AMOUNT OF REGULATED RIPARIAN HABITAT ON SITE: 3.47 ACRES.
17. AMOUNT OF REGULATED RIPARIAN HABITAT DISTURBED DURING BY THIS PROJECT (BY INFRASTRUCTURE, BUILDING PADS, SEPTIC, ETC.): 0.85 ACRES.
18. RIPARIAN HABITAT TO BE PRESERVED SHALL BE OBTAINED FOR PROTECTION DURING CONSTRUCTION USING A MINIMUM 4-FOOT HIGH ORANGE WESH BARRICADE FLOWING PROTECTIVE FENCING MUST REMAIN IN PLACE THROUGHOUT THE CONSTRUCTION AND DEVELOPMENT PROCESS.

SURVEY NOTES:

1. TOPOGRAPHIC, BOUNDARY, EASEMENT AND EXISTING CONDITIONS INFORMATION SHOWN ON THIS TENTATIVE PLAN IS BASED ON A BOUNDARY SURVEY PREPARED BY AMERSON SURVEYING, INC., MARCH, 2016.
2. BASIS OF BEARINGS FOR THIS SUBDIVISION IS THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 29, TOWNSHIP 12 SOUTH, RANGE 13 EAST, GLA AND SALT RIVER WATERSHED, PIMA COUNTY, ARIZONA. FROM THE NORTHWEST CORNER OF SECTION 29, BEING A BC5M STAMPEA "S 130105", TO THE NORTH QUARTER CORNER OF SECTION 29, BEING A ONE-HALF INCH IRON REBAR LAGED "SLS 32335", MEASURED FROM THE TRUE MERIDIAN USING GPS, BEARING BEING N89°44'59".
3. BASIS OF ELEVATION IS A PIMA COUNTY SURVEY BENCHMARK "THORNY 36" (PD OFS 0309), A COUNSEL "24" ON THE SOUTHWEST CORNER OF A CONCRETE HEADWALL ON THE NORTH-EAST CORNER OF INTERCHANGE AND OVERPASS ROADS, ELEVATION BEING 2413.88 (NAD83).
4. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO PROVIDE THE CONSTRUCTION LAYOUT. THE SURVEYOR SHALL VERIFY THE KNOWN BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES OBSERVED SHOULD ANY BENCHMARK, MARK OR DESIGN INDICATED ON THE PLANS BE SUSPECT. THE OWNER SHALL BE NOTIFIED OF SUCH BENCHMARK, GRADE OR DESIGN PROBLEM AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS TO BEGIN IN THE AFFECTED AREA.
5. UPON COMPLETION OF THE WORK, THE CONTRACTOR AND HIS SURVEYOR SHALL CERTIFY IN WRITING TO THE OWNER THAT THE PROJECT CIVIL ENGINEERING IMPROVEMENTS WERE STAKED AND BUILT IN SUBSTANTIAL CONFORMANCE TO THE LINES AND GRADES SHOWN.

GEOTECHNICAL NOTES:

1. A GEOTECHNICAL ENGINEERING INVESTIGATION, INCLUDING RECOMMENDATIONS FOR GRADING PROCEDURES, HAS BEEN PREPARED BY GROUND SUPPORT ENGINEERING, LLC (PROJECT NO. 16101). ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN SAID REPORT, DATED MAY 23, 2016 AND ADDENDUM 1, DATED OCTOBER 31, 2016.
2. THE CONTRACTOR SHALL RETAIN THE SERVICES OF, AND FACILITATE THE WORK OF, AN INDEPENDENT ENGINEERING TESTING LABORATORY ACCEPTABLE TO PROVIDE THE CONSTRUCTION TESTING OF THE PROJECT EARTHWORK, ASPHALT PAVEMENT AND CURE CONCRETE. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT INITIAL SITE CONDITIONS CONFORM WITH THE PLANS AND SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES OBSERVED SHOULD ANY SOIL CONDITION ON THE SITE BE SUSPECT OF DETRIMENTAL CHARACTERISTICS. THE CONTRACTOR SHALL BE NOTIFIED OF CONCERNS AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA.
3. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR WHO INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.

PAVING & GRADING NOTES:

1. ALL CONSTRUCTION AND TEST METHODS SHALL BE IN CONFORMANCE WITH PIMA ASSOCIATION OF GOVERNMENTS (PAG) STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS (SP9), 2015 EDITION.
2. AGGREGATE BASE COURSE SHALL CONFORM TO PAC SSP SECTION 303.
3. ASPHALTIC CONCRETE SHALL CONFORM TO PAC SSP SECTION 406, MAX NO. 2.
4. ALL CONCRETE SHALL CONFORM TO PAC SSP SECTION 406, CLASS 5.
5. THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND, THAT IT SHALL DEFINE, OWNERSHIP AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
6. THE CONTRACTOR SHALL GIVE FOURTY-EIGHT (48) HOURS NOTICE WHEN IT SHALL REQUIRE THE SERVICES OF THE ENGINEER OR ANY OTHER PERSON PROPERLY AUTHORIZED FOR SUCH PURPOSE FOR LAYING OUT ANY PORTION OF THE WORK. IT SHALL ALSO GIVE ALL STAKE-HOLDERS NECESSARY TO GIVE LINE AND LEVELS AND SHALL PROVIDE ASSISTANCE CALLED FOR BY THE ENGINEER UPON ANY PART OF THE WORK WHENEVER REQUESTED.
7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY GOVERNMENTAL AGENCIES.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
9. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY QUANTITIES AND BASE ITS BID SOLELY ON ITS OWN ESTIMATES.
10. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETE. ALL WARNING SIGNS, BARRICADES, ETC. SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
11. THE CONTRACTOR SHALL PROVIDE FOR DUST CONTROL, AT ALL TIMES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH, HAIL, AND APPLY ALL WATER REQUIRED FOR CONVECTION AND FOR CONTROL OF DUST THROUGH CONSTRUCTION ACTIVITY. THE COST THEREOF IS TO BE INCLUDED IN GRADING CONSTRUCTION PRICE.
12. ALL WORK SHALL CONFORM TO GRADING STANDARDS, CHAPTER 18B OF THE PIMA COUNTY ZONING CODE.
13. THE PAVING CONTRACTOR SHALL ADJUST WATER VALVES, MANHOLES & CLEAN OUT RINGS TO FINAL PAVEMENT SURFACE, AS NECESSARY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REVEALED OR DAMAGED DURING THE COURSE OF CONSTRUCTION, THAT OCCURS AS A RESULT OF ITS, ANY OF ITS SUBCONTRACTORS OR ITS SUPPLIERS ACTIONS. ALL REPAIR, REPLACEMENT OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
15. IF GRADING CONSTRUCTION IS EXPECTED TO LAST LONGER THAN THE EXPIRATION DATE OF THE GRADING PERMIT, CONTACT 503 TO RENEW/RENEW THE GRADING PERMIT. IF FINAL GRADING INSPECTION HAS NOT BEEN COMPLETED BEFORE THE GRADING PERMIT EXPIRES, AND THE PERMIT HAS NOT BEEN RENEWED, ADDITIONAL FEES AND REVIEWS MAY BE REQUIRED.
16. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO THE BEGINNING OF GRADING. SUBSEQUENT GRADING INSPECTIONS ARE TO BE PERFORMED BY THE PRE-CON MEETING. FINAL INSPECTION TO BE SCHEDULED AFTER RECEIPT OF THE ENGINEER'S CERTIFICATION LETTER.
17. GRADING BOUNDARIES SHALL BE CLEARLY MARKED AND ALL WORK WILL BE CONFINED TO THE APPROVED PROJECT LIMITS.
18. THE CONTRACTOR SHALL PRESERVE ALL STAKES SET FOR LINES, LEVELS OR MEASUREMENTS OF WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ANY EXPENSE INCURRED IN REPLACING ANY STAKES WHICH THE CONTRACTOR OR ITS SUBORDINATES MAY HAVE FAILED TO PRESERVE SHALL BE CHARGED TO THE CONTRACTOR.
19. ALL ORGANIC MATERIAL SHALL BE REMOVED WITHIN THE CLEANING LIMITS FOR NECESSARY GRADING TO A DEPTH OF SIX (6) INCHES AND HAULED FROM THE SITE PRIOR TO GRADING.
20. REMOVAL OF ANY CACTI AND NATIVE PLANTS SHALL BE IN ACCORDANCE WITH PROVISIONS OF THE ARIZONA NATIVE PLANT LAW, A.R.S. CHAPTER 7.
21. AREAS TO BE REVEGETATED SHALL BE IN ACCORDANCE WITH THE GRADING MANUAL AND APPROVED LANDSCAPE PLAN FOR THIS PROJECT.
22. THE SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK OPERATIONS INCLUDING, BUT NOT LIMITED TO, CLEANING, GRUBBING, SLOPESIDE PREPARATIONS, STRUCTURAL AND TRENCH EXCAVATION AND BACKFILL, TOGETHER WITH THE PLACEMENT AND COMPACTION OF FILL.
23. BUILDING SITES SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF FINISH BUILDING PAD ELEVATIONS, AS STATED. STREETS AND PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF FINISH GRADE, AS STATED. IF AN AREA SHOULD BE FOUND TO BE MORE THAN 0.10 FEET OUT OF LEVEL, AFTER COMPACTION AND ACCEPTANCE OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER.
24. ALL STREET SIGNING SHALL BE DESIGNED AND INSTALLED TO CURRENT PIMA COUNTY STANDARDS. THE PIMA COUNTY/CITY OF TUCSON SIGNING MANUAL ARE TO BE THE REFERENCES FOR SIGNING DESIGN AND INSTALLATION.
25. ALL STREET STRIPING AND SIGNING WORK SHALL BE COORDINATED WITH PIMA COUNTY TRAFFIC ENGINEERING DIVISION (740-2601) PRIOR TO INSTALLATION AND BEFORE OPENING STREETS TO THE PUBLIC. ALL INSTALLATIONS THAT DO NOT MEET COUNTY STANDARDS SHALL BE REJECTED BY THE CONTRACTOR AND AT THE CONTRACTORS EXPENSE.
26. THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED SLOPES WITH HYDROSEED, UNLESS OTHERWISE NOTED.
27. A REGISTERED ENGINEER MUST CERTIFY THAT THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS PRIOR TO REQUEST FOR FINAL INSPECTION/CERTIFICATION OF COMPLETION, RELEASE OF ASSURANCES OR MODULAR PERMITS.
28. ESTIMATED EARTHWORK QUANTITIES FOR PERMIT PURPOSES ONLY. (NO ALLOWANCE FOR SHORNGAGE AND COORDINATION)
29. 17,298.35 C.Y. CUT
30. 32,402.18 C.Y. FILL

SEWER NOTES:

1. 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 2016 (EDS 2016) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2016 (SSC 2016). SAID REQUIREMENTS ARE AVAILABLE THROUGH THE PCWRD WEBSITE (WWW.PIMA.COUNTY/WWASTEWATERRECLAMATION).
2. ANY CONSTRUCTION ACTIVITY HAVING THE POTENTIAL TO DAMAGE EXISTING PUBLIC SANITARY SEWERS OR ANY ACTIVITY THAT REQUIRES MATERIALS OR EQUIPMENT TO ENTER EXISTING PUBLIC SANITARY SEWERS SHALL REQUIRE A PIMA COUNTY RATED SEWER CONSTRUCTION PERMIT PRIOR TO COMMENCING THAT ACTIVITY.
3. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) HAS ISSUED A CONSTRUCTION AUTHORIZATION FOR THIS PROJECT, (B) THE CONTRACTOR HAS OBTAINED A PIMA COUNTY SEWER CONSTRUCTION PERMIT (CONTACT THE PCWRD PERMITS SECTION AT (520) 724-6649 FOR PERMIT APPLICATION REQUIREMENTS), (C) THE CONTRACTORS FIELD MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCWRD FIELD ENGINEERING, AND (D) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
4. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO PCWRD FIELD ENGINEERING FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK THAT MAY AFFECT LIVE SEWERS. THE FMP SHALL IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. THE FMP SHALL BE SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE SEWER PRE-CONSTRUCTION MEETING. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN TEN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO PCWRD SSC 2016, SECTION 2 FOR FMP REQUIREMENTS. PLEASE CONTACT PCWRD FIELD ENGINEERING AT (520) 724-7654 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.
5. THE CONTRACTOR SHALL FURNISH, OPERATE AND MAINTAIN ALL EQUIPMENT AND LABOR NECESSARY TO PROMOTE CONTINUOUS FLOW OF SEWERS THROUGHOUT THE PROJECT. TO ALL PARTIES TRIBUTARY TO A LIVE SEWER TO WHICH A CONNECTION IS TO BE MADE, THE PCWRD CONCESSION DIVISION SHALL BE NOTIFIED AT (520) 724-3400 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES THAT IMPACT THE EXISTING LIVE SEWER LINE. SANITARY SEWER SYSTEM OR INVERTS CONNECTING TO A LIVE SANITARY SEWER. SEE PCWRD SSC 2016, SECTION 2 FOR MORE INFORMATION.
6. THE INSPECTION OF THE CONTRACTOR'S WORK BY AN AGENCY AND/OR PCWRD STAFF SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE REQUIREMENTS OF THE APPROVED CONTRACT DOCUMENTS. IF THE DESIGN ENGINEER OR PCWRD STAFF FAIL TO POINT OUT A DEFECT, DEFICIENCY OR ERROR IN THE WORK FOR LACK OF DISCOVERY OR ANY OTHER REASON, IT SHALL IN NO WAY PREVENT LATER REJECTION OR REJECTION OF THE CONTRACTOR OF PERFORMING CORRECTIONS TO THE UNSATISFACTORY 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.
7. SEWER PLANS THAT BEAR THE SEAL OF THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) APPROVAL SHALL BE THE PIMA COUNTY RATED ACCEPTANCE SIGNATURE SHALL ONLY BE USED FOR THE CONSTRUCTION OF PUBLIC SANITARY SEWER FACILITIES. APPROVED PLANS WHICH DESIGNED OR DESIGNED TO PIMA COUNTY RATED (520) 724-3400 (AS APPROPRIATE) FOR REVIEW AND RE-APPROVAL PRIOR TO START OF THE REVISED SEWER WORK.
8. ANY SEWER CONSTRUCTION WORK THAT IS NOT INCLUDED IN THE APPROVED SEWER PLANS WILL NOT BE ACCEPTED BY PCWRD. SEE PCWRD SSC 2016, SECTION 1.5.4 REGARDING THE CHARGES OF FIELD CHARGES.
9. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCWRD OPERATIONS CONTROL CENTER (OCC) AT (520) 724-6500: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCWRD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWER OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, AND DISINFECT THE RELEASE AREA. ANY REGULATORY PERMIT REQUIRED FOR PCWRD FOR SEWAGE ENTERING A NATURAL DRAINAGE OR ON STORM WATER DRAINAGE SYSTEM, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCWRD FIELD ENGINEERING.
10. THE CONTRACTOR SHALL CONTACT "ARIZONA B1" (DIAL 811 OR 1-800-882-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP-TO-DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22 CONCERNING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
12. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING SEWER LINE ELEVATIONS AND ADJUSTMENTS PRIOR TO CONSTRUCTION. VERIFICATION MAY REQUIRE POI-HOLDING.
13. ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES UNLOCATED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REMOVED, AS THE SITUATION DICTATES. PER PCWRD SSC 2016 DETAIL NO. RHW40 AND 40 AT NO EXPENSE TO THE PROPERTY OWNER OR PCWRD. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCWRD. PRIVATE CONNECTION SEWERS CONNECTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED.
14. SURVEY LAYOUT AND SURVEY CONTROL SHALL BE PERFORMED BY, OR UNDER, THE DIRECT SUPERVISION OF AN ARIZONA R.S.
15. SURVEY OUT SHEETS SHALL BE PREPARED IN ACCORDANCE WITH PCWRD SSC 2016, SECTION 3.2.2(A)(1). CERTIFIED OUT SHEETS SHALL BE SUBMITTED TO THE PCWRD FIELD ENGINEER PRIOR TO COMMENCEMENT OF SEWER CONSTRUCTION. OUT SHEETS ARE FOR PCWRD REFERENCE ONLY AND SHALL NOT DELAY SEWER CONSTRUCTION DUE TO REVIEW OF THE DELIVERABLE. ANY ERRORS OR OMISSIONS RESULTING IN IMPROPER SEWER CONSTRUCTION SHALL NOT BE THE RESPONSIBILITY OF PCWRD. REFER TO PCWRD SSC 2016, SECTION 3.2.2(A)(1) FOR CONSTRUCTION SURVEY STAKING REQUIREMENTS.
16. THE DEVELOPER OR CONTRACTOR SHALL RETAIN AN ARIZONA-REGISTERED LAND SURVEYOR (BLS) FOR PREPARATION OF THE SEWER AS-BUILT PLANS. SEWER AS-BUILT PLANS SHALL CONFORM TO SSC 2016, SECTION 1.4.7 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCWRD. THE DEVELOPER OR CONTRACTOR SHALL SUBMIT TWO FULL-SIZE COPIES, AND AN ELECTRONIC VERSION, OF THE AS-BUILT SEWER PLANS TO THE PCWRD FIELD ENGINEER.
17. NEW PUBLIC SANITARY SEWER FACILITIES MUST BE TESTED, INSPECTED AND AUTHORIZED FOR DISCHARGE BY PCWRD AND ADEQ, OR ITS DELEGATE, PRIOR TO DISCHARGING INTO THE EXISTING PUBLIC SANITARY SEWER SYSTEM.
18. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AT ALL TIMES.
19. PRIOR TO THE INSTALLATION OF SANITARY SEWERS, ALL ROUGH GRADING, INCLUDING FILL, SHALL BE COMPLETED TO A MINIMUM OF 4 FEET OVER THE TOP OF THE PIPE. IF DRAINAGE, SHADING, AND TRENCH BACKFILL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH PCWRD SSC 2016, DETAIL NO. RHW40, OR, AS SHOWN ON THE PLANS, SHOULD ORIGIN WATER OR UNANTICIPATED SOIL CONDITIONS BE ENCOUNTERED, DESIGN SHALL BE MODIFIED BY THE DESIGN ENGINEER AND APPROVED BY THE PCWRD FIELD ENGINEER. WHEN THE NEW SEWER IS LOCATED WITHIN A PUBLIC SEWER EASEMENT, COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS OR AS OTHERWISE DIRECTED BY PCWRD. WHEN THE NEW SEWER IS LOCATED WITHIN RIGHT-OF-WAY, COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH THE RIGHT-OF-WAY AGENCY HAVING JURISDICTION.

SEWER NOTES (CONTINUED):

20. SANITARY SEWER CONSTRUCTION SHALL START AT THE LOWEST DOWNSTREAM POINT AND PROCEED UPSTREAM, REGARDLESS OF THE STATIONING SHOWN ON THE PLANS. IF CONSTRUCTION CANNOT BE PERFORMED IN THIS MANNER, THE CONTRACTOR SHALL PROVIDE AN OUT-OF-SEQUENCE LETTER FOR APPROVAL BY THE PCWRD FIELD ENGINEER PRIOR TO THE START OF SEWER CONSTRUCTION.
21. THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SEWER LINES SHALL COMPLY WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) R18-5-502 AND PCWRD SSC 2016, DETAIL NO. RHW40.
22. PLANTING WITHIN PUBLIC SEWER EASEMENTS SHALL ONLY BE ALLOWED WITH SPECIAL APPROVAL. TREES WITH BRANCHES OR ROOTS HAVING THE POTENTIAL TO INTERFERE WITH PUBLIC SEWER LINES SHALL COMPLY WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) R18-5-502 AND PCWRD SSC 2016, DETAIL NO. RHW40. IF THE PUBLIC SEWERS MUST BE LOCATED OUTSIDE PAVED OR STABILIZED AREAS, THE CONTRACTOR SHALL MAINTAIN ADHERENT TO GUIDELINES IN PCWRD EDS 2016, SECTION 1.7 AND PCWRD SSC 2016, DETAIL NO. RHW40 111.
23. ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED TO PREVENT ALL STORM WATER, CONSTRUCTION WATER, FUELS, CHEMICALS, LIQUIDS, OR OTHER CONTAMINANTS, FROM BEING 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 ARE NOT LIMITED TO, THE USE OF RAIN STOPPERS AND MANHOLE COVERS AS DEEMED NECESSARY BY PCWRD.
24. ALL PROJECT ACTIVITIES MUST BE KEPT WITHIN THE PROJECT AREAS CONCERNING HUMAN BURIAL REMAINS, ANTHROPOLOGICAL CLEARANCE RECOMMENDATIONS DO NOT EXCEPT THE DEVELOPMENT FROM COMING WITH STATE LAND INTERVENTION LANS. IN THE EVENT THAT HUMAN REMAINS, INCLUDING HUMAN SKELETA, REMAINS, CRANIUMS, OR OTHER OBJECTS OR FUNERARY OBJECTS, ARE FOUND DURING EXCAVATION OR CONSTRUCTION, STOPPING DISTURBING ACTIVITIES MUST CEASE IN THE IMMEDIATE VICINITY OF THE DISCOVERY. ARIZONA STATE LAWS A.R.S. 41-1404 AND 41-1405 REQUIRE THAT THE ARIZONA STATE HISTORICAL SOCIETY BE NOTIFIED OF THE DISCOVERY AT (520) 621-4755 SO THAT CULTURAL GROUPS WHO CLAIM CULTURAL OR RELIGIOUS AFFINITY TO THE REMAINS CAN MAKE APPROPRIATE ARRANGEMENTS FOR THE RECOVERY AND RETURN OF THE REMAINS. THE HUMAN REMAINS WILL BE REMOVED FROM THE SITE BY A PROFESSIONAL ARCHAEOLOGIST PENDING CONSULTATION AND REVIEW BY THE ARIZONA STATE HISTORICAL SOCIETY AND THE CONCERNED CULTURAL GROUPS.
25. ONSITE SANITARY SEWERS WILL BE PUBLIC AND WILL BE DESIGNED AND CONSTRUCTED TO PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT STANDARDS.
26. ALL ONSITE SANITARY SEWERS WILL BE DESIGNED TO PROMOTE GRAVITY FLOW.
27. CONSTRUCTION AUTHORIZATION FROM THE PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY IS REQUIRED BEFORE BEGINNING ANY WORK ON THIS PROJECT.
28. IN ACCORDANCE WITH R18-5-300(D)(3)(6) SEWER LINES AND RELATED PARTS SHALL NOT CROSS OF BE LOCATED IN THE FLOOD ZONE AREA PER FEMA AND STATE STATUTE.
29. IN ACCORDANCE WITH R18-5-300(D)(5)(6) MANHOLE COVERS ARE DESIGNED TO RESTRICT OR ELIMINATE STORM WATER RUNOFF IN AREAS SUBJECTED TO MORE THAN INCIDENTAL RAINFALL.
30. IN ACCORDANCE WITH R18-5-300(D)(2)(7)(6) FLEETABLE GRADITY SEWER LINES MUST BE DELINEATION-TESTED.
31. IN ACCORDANCE WITH R18-5-300(D)(2)(3) SEWER LINES MUST BE LEAKAGE-TESTED (ASTM F1417 FOR PVC GRAVITY SEWER LINES, ETC.).
32. IN ACCORDANCE WITH R18-5-300(D)(3)(3) SEWER LINES WILL HAVE A UNIFORM SLOPE. TEST IN ACCORDANCE WITH R18-5-300(D)(3)(3) MANHOLES SHALL BE LEAKAGE TESTED PER ASTM C1744.
33. IN ACCORDANCE WITH R18-5-300(D)(2)(3) THE PROPOSED SEWER COLLECTION SYSTEM AND DRAINING WATER SYSTEM COMPONENTS SHALL MEET SEPARATION REQUIREMENTS PER A.A.C. ARTICLE 5.
34. IN ACCORDANCE WITH R18-5-300(D)(2)(3) THE MINIMUM SEWER BURIAL DEPTH SHALL BE 3 (THREE) FEET.
35. THE FOLLOWING LOTS WILL REQUIRE BACKWATER VALVES 3, 6, 8, 15, 19, 25, 30, 37-48, 52-58, 64-72, 79-89.
36. ONLY APPROVED PLANS SHALL BE USED FOR THE CONSTRUCTION OF PUBLIC SANITARY SEWER FACILITIES. APPROVED PLANS REQUIRING DESIGN REVISIONS SHALL BE RESUBMITTED TO PIMA COUNTY FOR REVIEW AND RE-APPROVAL PRIOR TO START OF THE NEW/REVISED WORK.
37. STORM WATER AND SEWAGE CONTROL MEASURES SHALL BE PROPERLY INSTALLED TO PROTECT PUBLIC MANHOLES AT THE BEGINNING OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTANTLY MAINTAIN STORM WATER AND SEWAGE CONTROL MEASURES THAT PROTECT PUBLIC FACILITIES UNDER ALL CONDITIONS FOR THE DURATION OF THE PROJECT. UNDER CIRCUMSTANCES SHALL THE CONTRACTOR ALLOW STORM WATER, SEDIMENT, OR POTENTIAL POLLUTANTS FROM A CONSTRUCTION SITE TO ENTER A PCWRD MANHOLE. THE CONTRACTOR SHALL INSURE THAT THEIR FIELD MANAGEMENT OPERATIONS INCLUDE CONTROLS TO PREVENT ANY INTRODUCTION OF STORM WATER, SEDIMENT, OR POLLUTANTS INTO THE PUBLIC SANITARY SEWER SYSTEM. FAILURE TO CONFORM TO THESE REQUIREMENTS SHALL RESULT IN CANCELLATION OF THE SEWER CONSTRUCTION PERMIT.
38. SPECIAL CARE SHALL BE TAKEN TO ENSURE DESIGN SLOPES ARE MAINTAINED SEWERS CONSTRUCTED AT INSUFFICIENT SLOPES WILL NOT BE ACCEPTED BY PCWRD FIELD ENGINEERING AND/OR ADEQ CORRECTIVE ACTION, INCLUDING RE-CONSTRUCTION OF THE SEWER(S), WILL BE AT THE SOLE EXPENSE OF THE PROJECT OWNER/CONTRACTOR.
39. THE CONTRACTOR SHALL ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCWRD SSC 2016, DETAIL NO. RHW40, 212, 240 OR JOS (AS APPLICABLE). THE CONTRACTOR SHALL PROTECT THE INVERT AND FLOW CHANNELS WITH A COVER PER PCWRD SSC 2016, DETAIL NO. RHW40 PRIOR TO COMMENCING ANY WORK TO THE MANHOLE AND REMOVE THE COVER AFTER ALL WORK IS COMPLETED. THE CONTRACTOR SHALL INSURE THAT FRAMES AND COVERS ARE CLEAN AND FREE FROM ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL NEW HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS, AS APPROVED BY THE PCWRD FIELD ENGINEER. EXISTING FRAMES AND COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW FRAME AND COVER IN ACCORDANCE WITH PCWRD SSC 2016, DETAIL NO. RHW40. 212 - 218 COSTS ASSOCIATED WITH EXISTING FRAMES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

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Notes

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GN01

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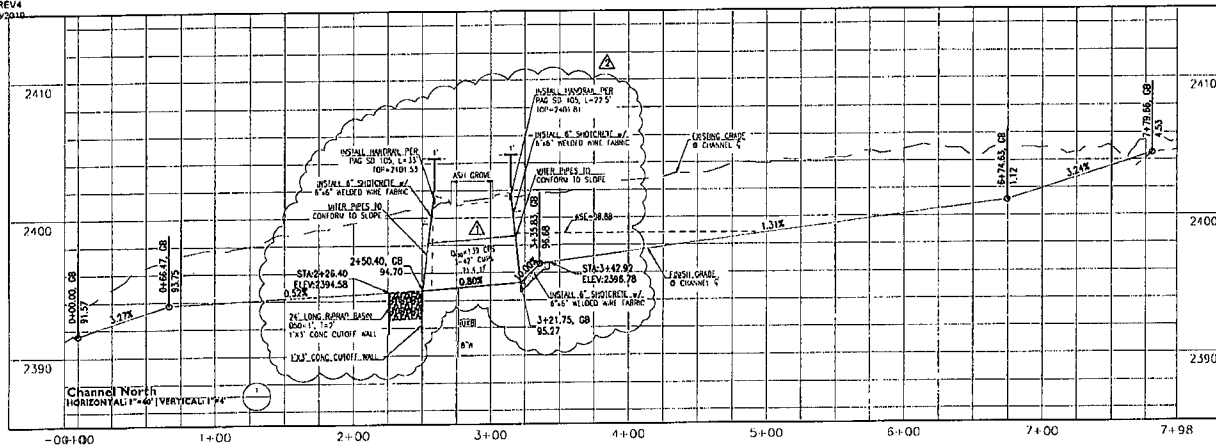


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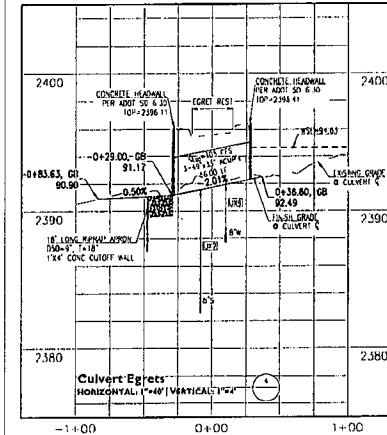
Channel North

All Stationing is Along Construction Centerline
Unless Otherwise Noted



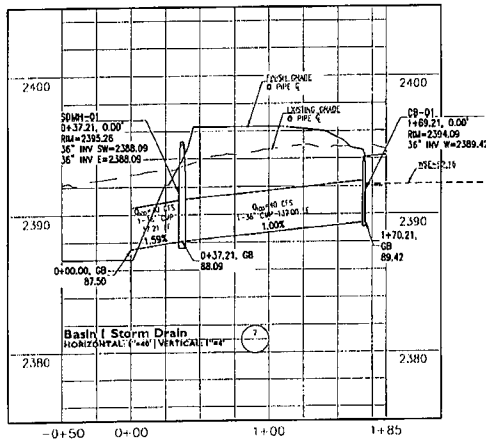
Culvert Egrets

All Stationing is Along Construction Centerline
Unless Otherwise Noted



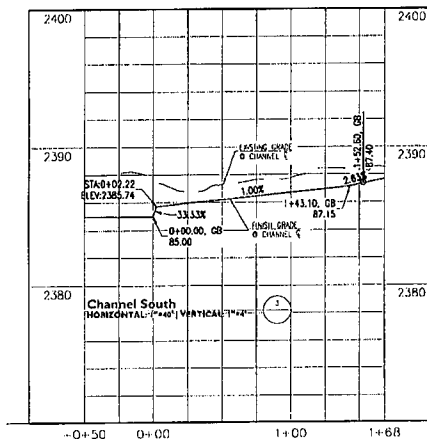
Basin 1 Storm Drain

All Stationing is Along Construction Centerline
Unless Otherwise Noted



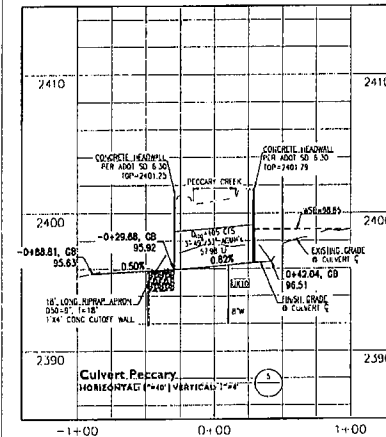
Channel South

All Stationing is Along Construction Centerline
Unless Otherwise Noted



Culvert Peccary

All Stationing is Along Construction Centerline
Unless Otherwise Noted



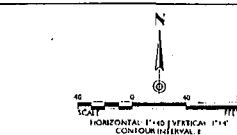
UTILITY CROSSING DATA				
CROSSING	SEWER	WATER	STORM	DIFFERENCE
U&1	2381.71 TDW	2380.28 TDW		1.43
U&2	2383.31 TDW		2381.56 TDW	1.75
U&3	2385.48 TDW		2381.66 TDW	3.82
U&4	2381.71 TDW		2380.72 TDW	1.00
U&5	2389.12 TDW		2381.99 TDW	7.13
U&6	2389.43 TDW		2382.29 TDW	7.14
U&7	2381.47 TDW		2385.50 TDW	-4.03
U&8		2380.56 TDW	2381.66 TDW	-1.10
U&9		2388.37 TDW	2381.94 TDW	6.43
U&10		2387.84 TDW	2386.75 TDW	1.09

Site Construction Plan
Hardy 30
Storm Drain Profiles

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Professional Engineer Seal for P. J. S. C. S. E. No. 10000, State of Florida, License No. 10000, Exp. 12/31/2010.

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D102
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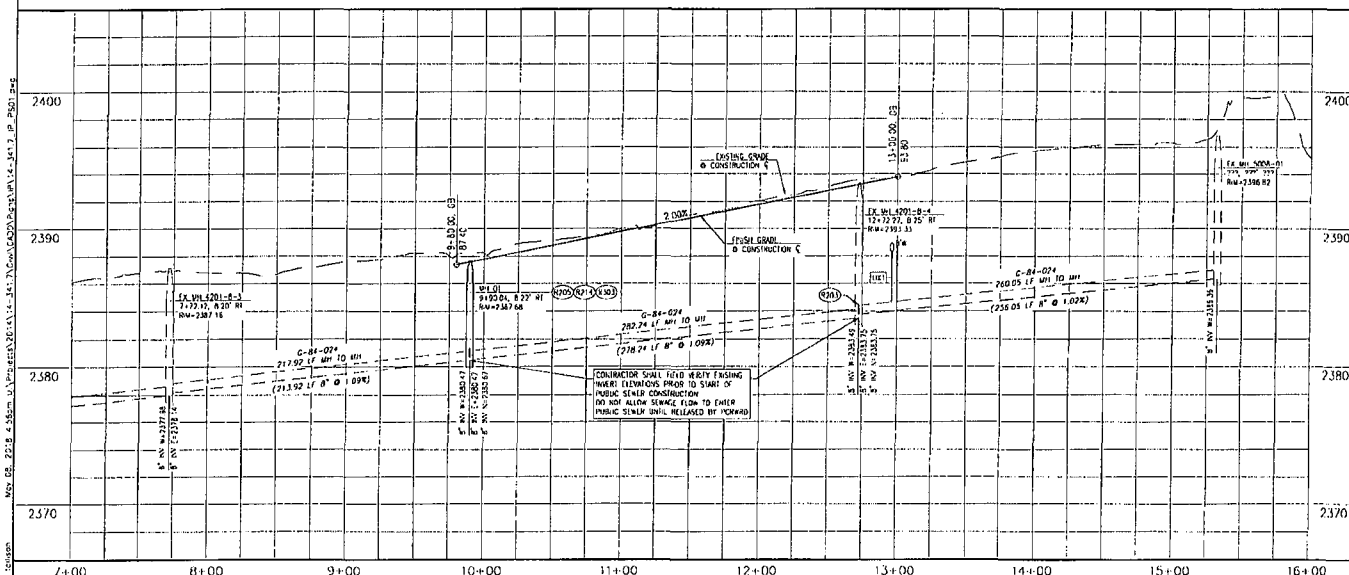


107# REBUILDABLE POST RAINCAGE PER PAG SD 107
200# 5 CONCRETE SQUARE PER PAG SD 200
209# CONCRETE WEDGE CURB PER PAG SD 209
209# CONCRETE VERTICAL CULM-TYPE 7 PER PAG SD 209
210# CONCRETE CUMB MASSION PER PAG SD 213
213# CONCRETE HEADLIN PER PAG SD 213
6203# CONNECTION TO EXISTING MANHOLE BLOCKOUT PER MANH SD 209
6205# 4" MANHOLE PER RAND SD 205
6219# NEW 24" WATERHOLE MANHOLE AND COVER PER RAND SD 214
6233# MANHOLE COVER LASSING SEAM (1) PER RAND SD 214

(1d) PAVEMENT SECTION 1 PER (A
(1d) PAVEMENT SECTION 2 PER 3
(5) SEWER BACKWATER VALVE REQUIRED

LINE	BEARING	LENGTH
L1	N89°50'18"W	760.0
L2	N0°05'53"W	760.2
L3	S0°05'53"E	1743.0

Daphne
All Stationing is Along Construction Centerline
Unless Otherwise Noted



MANHOLE, AS-BUILT INFO		
WH NO	STATE PLANT COORDINATES (W/ CENTRAL) NAD 83 INTERNATIONAL FEET	
	NORTHING	EASTING
NO. 1		

CROSSING	SEWER	WATER	STORM	DISTANCE
UAT	2385.76 TGP	2388.78 TW		3.61
UAT	2381.31 TGP		2391.50 WOT	8.27
UW3	2385.40 TGP	2391.86 TW		6.41
UW4	2385.71 TGP	2388.72 TW		4.05
UW5	2381.73 TGP	2391.99 TW		7.87
USB	2383.48 TGP	2392.26 TW		2.80
USB	2391.47 TGP	2396.50 TW		5.03
UW7		2390.56 TW	2394.86 TW	4.30
UW8		2388.31 TGP	2391.94 TW	35.7
UW9		2392.68 TGP	2396.25 TW	35.27

Site Construction Plan
Hardy 30
POLY CONCRETE PIPE
Paving & Sanitary Sewer

At Issue Engineering for Asst. Grove Culvert
J. M. RYAN, JR.

Design: EIL Z
Drawing: EIL Z

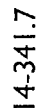

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14-341.7
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 Sheet No.
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TUCSON, AZ 85742
1-800-408-1603 F-303-408-1603
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FF: P16T0000M P16T0000T

G-2017-077

P17SC00054



- | Line Ionie | | |
|------------|-------------|--------|
| Idi | BRANC | LENG |
| L1 | N89°50'18"W | 280.00 |
| L2 | N89°55'53"W | 780.28 |
| L8 | N89°44'59"W | 505.57 |

HCS AS-BUILT INFO			
STATE PLANE COORDINATES (NAD CENTRAL) AND 83 INTERNATIONAL FEET AT EXCHANGE		DISTANCE FROM DWP TO DOWNSTREAM MANHOLE	SEWER LINE SHADOWNING HCS/83 CONVERT
LOT #	NORTHING	EASTING	
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
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89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

CROSSING	SEWER	WATER	STORM	OUTFALL
WRT1	2381.71 TOP	2388.28 BFW		2.61
WRT2	2381.51 TOP		2391.58 BFW	0.77
WRT3	2385.40 TOP	2391.64 BFW		6.44
WRT4	2386.71 TOP	2384.77 BFW		4.01
LWS	2383.12 TOP	2391.96 BFW		2.87
LWS6	2383.49 TOP	2392.29 BFW		2.80
LWS7	2381.47 TOP	2396.50 BFW		5.03
WRT5	2350.56 TOP		2394.86 BFW	4.30
WRT6	2388.37 TOP		2391.94 BFW	3.57
WRT9	2387.68 TOP		2396.25 BFW	3.57

Site Construction Plan
Hardy 30
Paving & Sanitary Sewer

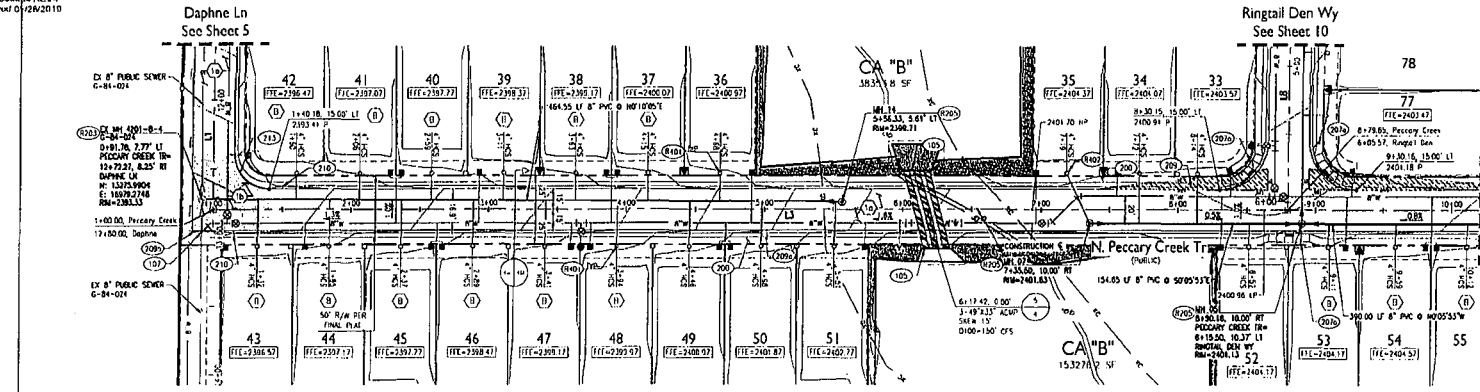
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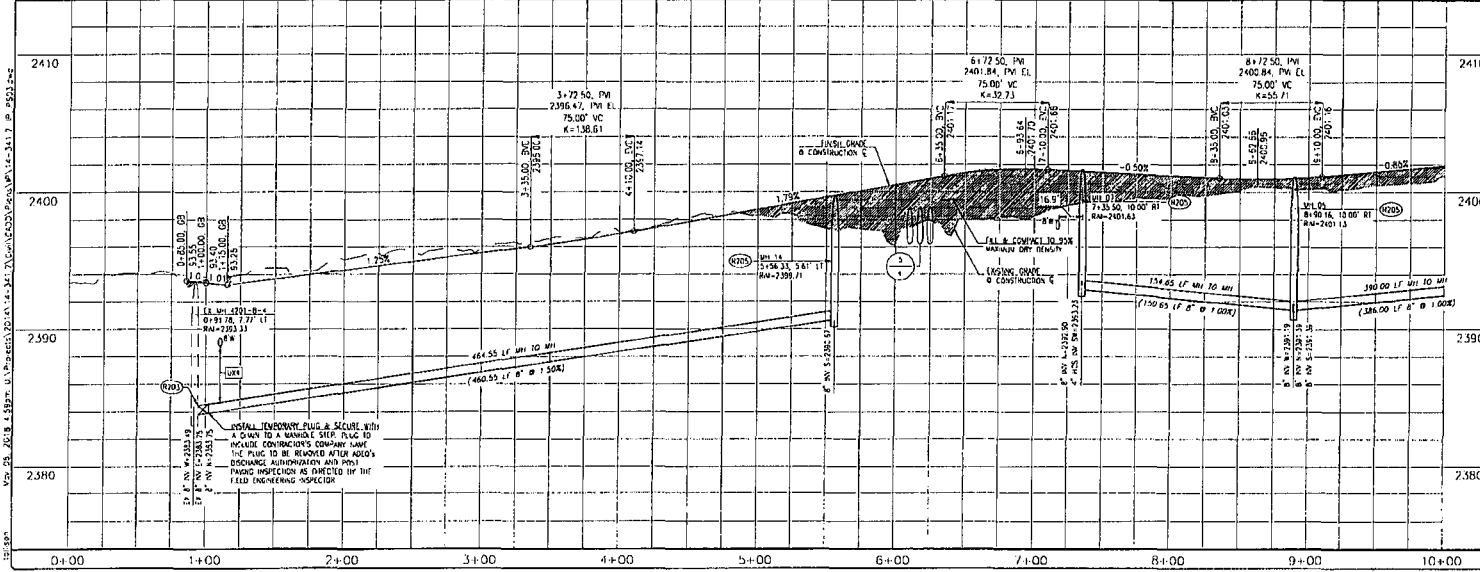
LINE TABLE		
LINE	STATIONING	LENGTH
1.1	88750.18'N	200.00'
1.2	52005.53'E	1743.00'
1.3	88754.90'N	509.53'

- KEYNOTES:**
- (1) MANHOLE PER PAG 50 105
 - (2) REMEDIATION POST (BARRETT) PER PAG 50 107
 - (3) 5" CONCRETE SIDEWALK PER PAG 50 200
 - (4) CURB ACCESS RAMP PER PAG 50 207 (TYPE 1)
 - (5) CURB ACCESS RAMP PER PAG 50 207 (TYPE 3)
 - (6) CONCRETE WEDGE CURB PER PAG 50 207
 - (7) CONCRETE VERTICAL CURB-TYPE 2 PER PAG 50 200
 - (8) CONCRETE CURB TRANSITION PER PAG 50 213
 - (9) CONCRETE HEADWALL PER PAG 50 213
 - (10) CONNECT TO EXISTING MANHOLE (BLOCKED) PER HANS 50 203
 - (11) 4" MANHOLE PER HANS 50 205
 - (12) HCS CONNECTION TO SEWER LINE PER HANS 50 401
 - (13) HCS CONNECTION TO MANHOLE PER HANS 50 402
 - (14) PAVEMENT SECTION 1 PER
 - (15) PAVEMENT SECTION 2 PER
 - (16) SLEET BACKWATER VALVE REQUIRED

MANHOLE AS-BUILT INFO			
MAN NO.	STATE PLANE COORDINATES (N CENTRAL) NO. 43 HORIZONTAL FEET	NORTHING	EASTING
MAN 33			
MAN 34			
MAN 35			
MAN 36			
MAN 37			
MAN 38			
MAN 39			
MAN 40			
MAN 41			
MAN 42			
MAN 43			
MAN 44			
MAN 45			
MAN 46			
MAN 47			
MAN 48			
MAN 49			
MAN 50			
MAN 51			
MAN 52			
MAN 53			
MAN 54			
MAN 55			

HCS AS-BUILT INFO				
LOT #	STATE PLANE COORDINATES (N CENTRAL) NO. 43 HORIZONTAL FEET AT CENTERLINE	DISTANCE FROM LOT # TO CENTERLINE MANHOLE	SEWER LINE STATIONING AT HCS/HCS CONNECTION	SEWER LINE STATIONING AT HCS/HCS CONNECTION
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				

UTILITY CROSSING DATA				
CROSSING	SEWER	WATER	STORM	DIFFERENCE
UB1	2384.71 TOP	2388.78 BWM		1.61'
UB2	2383.31 TOP		2391.38 BWM	8.27'
UB3	2385.40 BWM	2391.06 BWM		6.45'
UB4	2381.91 TOP	2389.72 BWM		4.01'
UB5	2381.12 TOP	2391.82 BWM		7.97'
UB6	2389.49 TOP	2392.22 BWM		2.86'
UB7	2391.47 TOP	2396.50 BWM		5.02'
UB8		2390.55 TOP	2391.86 BWM	4.30'
UB9		2388.37 TOP	2391.94 BWM	3.57'
UB10		2392.48 TOP	2398.25 BWM	1.51'



Site Construction Plan
Hwy 30
Paving & Sanitary Sewer

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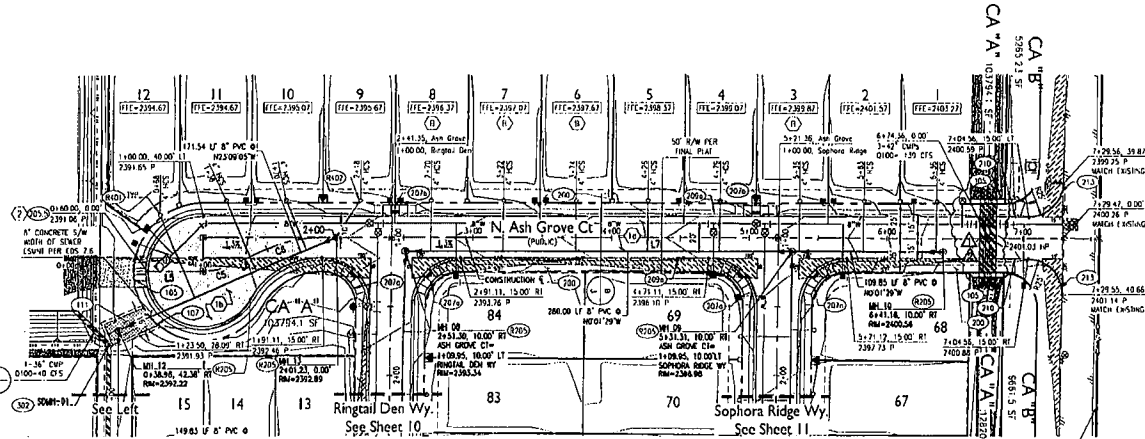
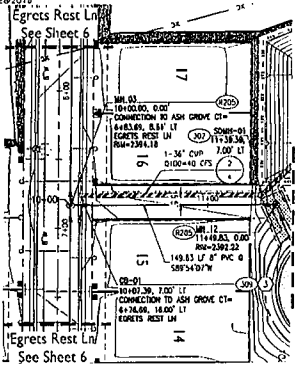
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PS03
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City of Dallas
P175C00004
G-2017-077



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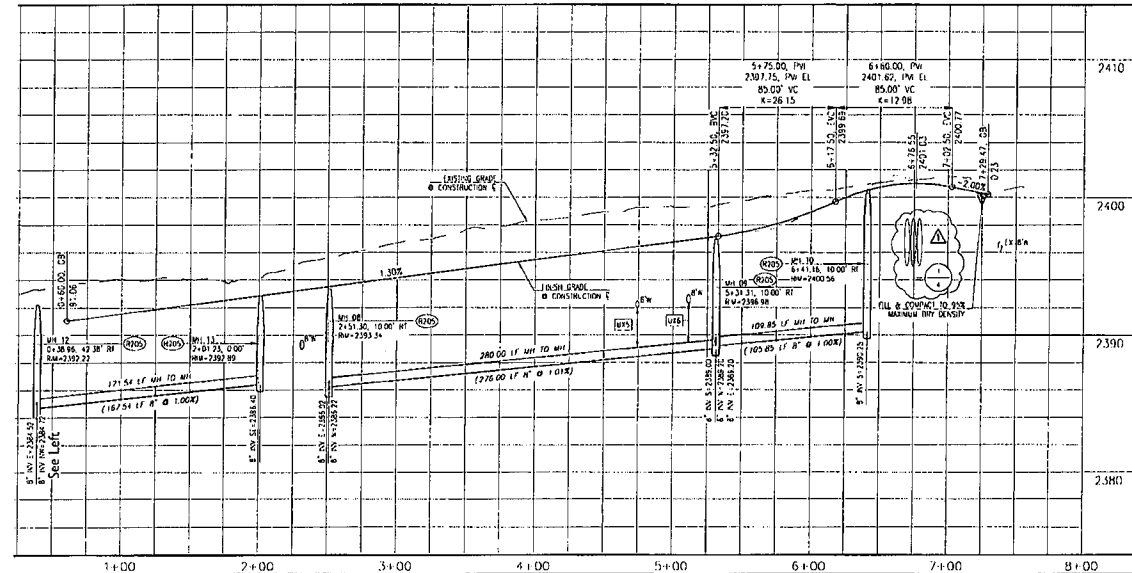
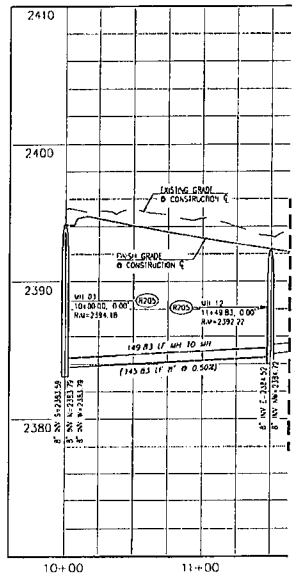


KEYNOTES:

1. HANDRAIL PER PAG 50 105
2. RESURFACING POST LANEWAY PER PAG 50 107
3. 5" CONCRETE SIDEWALK PER PAG 50 200
4. SIDEWALK SCUMPER PER PAG 50 205.5
5. CURB ACCESS RAMP PER PAG 50 203 (TYPE 1)
6. CURB ACCESS RAMP PER PAG 50 203 (TYPE 2)
7. CONCRETE WEDGE CURB PER PAG 50 203
8. CONCRETE CURB TRANSITION PER PAG 50 213
9. CONCRETE HEADER PER PAG 50 213
10. SIDEWALK DRAIN MANHOLE PER PAG 50 302
11. TYPE 4 CATCH BASIN PER PAG 50 309 (W/WH AS SHOWN)
12. STABILIZED SURFACE TREATMENT PER PAG 50 111
13. 4" MANHOLE PER PAG 50 205
14. 15" CONNECTION TO SEWER LINE PER PAG 50 401
15. 15" CONNECTION TO MANHOLE PER PAG 50 402
16. PAVEMENT SECTION 1 PER
17. PAVEMENT SECTION 2 PER
18. SIDEWALK SCUMPER w/ 5" x 4" OPENINGS
19. CATCH BASIN w/ 9" SLOTTED W/ & 15" NORTH W/
20. SLEWER BACKWATER VALVE REQUIRED

Line Table	
LINE	LENGTH
1.5	50'01" 34'1"
1.6	52'51" 18'1"
1.7	50'01" 34'1"

Curve Table			
CURVE	LENGTH	RADIUS	DELTA
C1	22'04"	50'00"	25'15'10"
C2	44'07"	100'00"	25'15'10"



MANHOLE AS-BUILT INFO	
MANHOLE NO.	STATION
1	11+00.00
2	11+00.00
3	11+00.00
4	11+00.00
5	11+00.00
6	11+00.00
7	11+00.00
8	11+00.00
9	11+00.00
10	11+00.00
11	11+00.00
12	11+00.00

HCS AS-BUILT INFO	
STATION	STATION
1	11+00.00
2	11+00.00
3	11+00.00
4	11+00.00
5	11+00.00
6	11+00.00
7	11+00.00
8	11+00.00
9	11+00.00
10	11+00.00
11	11+00.00
12	11+00.00

UTILITY CROSSING DATA	
CROSSING	STATION
1	11+00.00
2	11+00.00
3	11+00.00
4	11+00.00
5	11+00.00
6	11+00.00
7	11+00.00
8	11+00.00
9	11+00.00
10	11+00.00
11	11+00.00
12	11+00.00

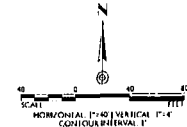
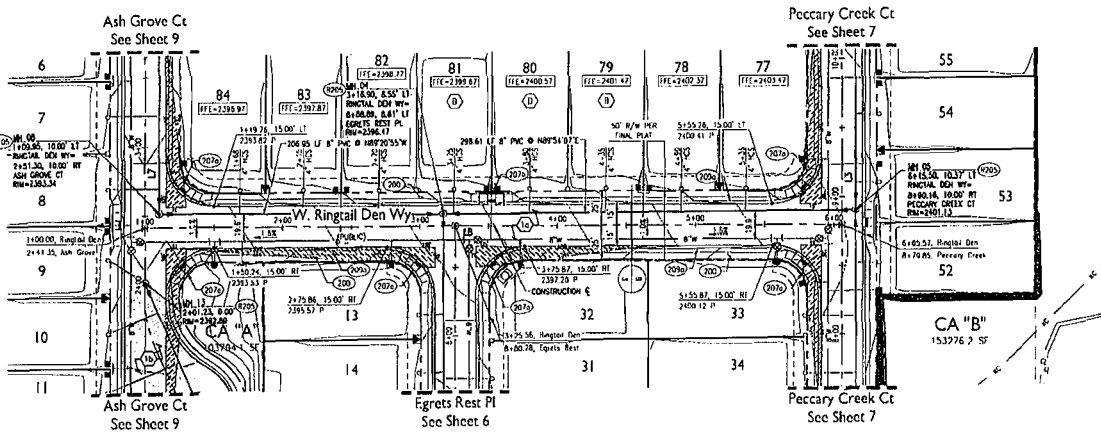
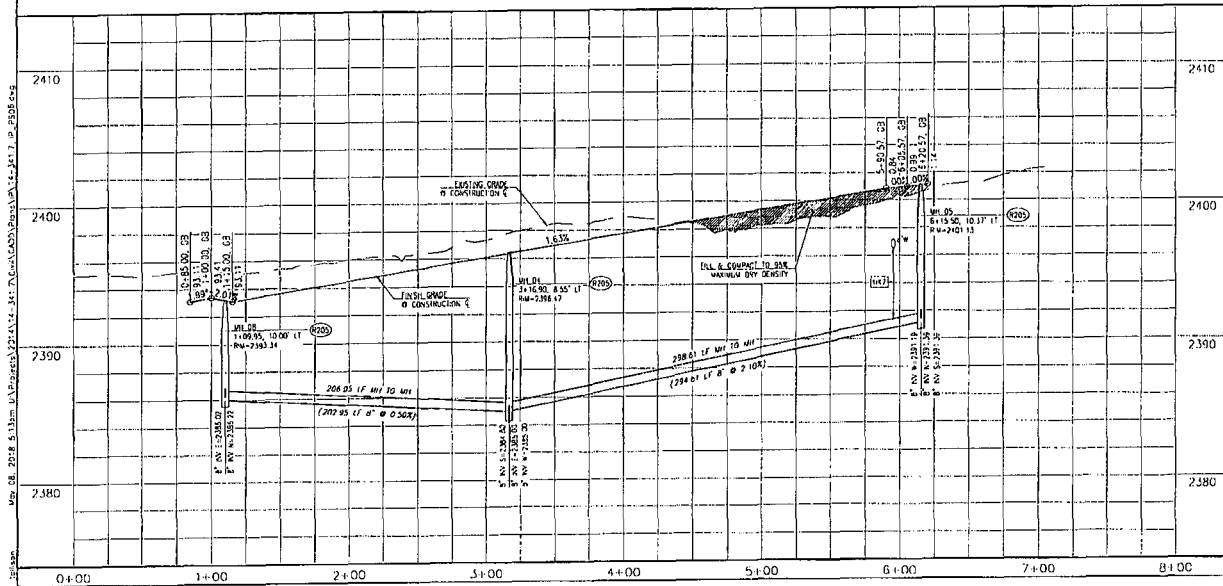
Site Construction Plan
Hardy 30
Paving & Sanitary Sewer

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KEYNOTES:

- (100) 5" CONCRETE SIDEWALK PER PWD SD 200
- (200) CURB ACCESS RAMP PER PWD SD 207 (TYPE 1)
- (300) CURB ACCESS RAMP PER PWD SD 207 (TYPE 3)
- (400) CONCRETE WEED CURB PER PWD SD 200
- (500) 4" UNIFORM PER PWD SD 205
- (600) HCS CONNECTION TO SEWER LINE PER PWD SD 400

- (10) PAVEMENT SECTION 1 PER
- (15) PAVEMENT SECTION 2 PER
- (2) SIDEWALK SCUMPER w/ 3-4" OPENINGS
- (3) SEWER INCH WATER VALVE REQUIRED

Line Table	
LINE	LENGTH
1.0	50'00.51' 1243.09'
1.7	50'01.70' 565.25'
1.8	50'01.70' 565.25'

HCS AS-BUILT INFO			
STATE PLANS COORDINATES (AT CENTER)		DISTANCE FROM TOP OF DOWNHOLE	
LINE #	NORTHING	EASTING	SEWER LINE STRUCKING AT HCS/DCS CONNECTION
11			
78			
79			
80			
81			
82			
84			

UTILITY CROSSING DATA			
CROSSING	SEWER	WATER	STORM
UT1	2384.73 TOP	2380.28 BW	2381.58 BW
UT2	2382.31 TOP		
UT3	2380.45 TOP	2381.86 BW	
UT4	2380.73 TOP	2380.73 BW	
UT5	2380.12 TOP	2381.88 BW	
UT6	2380.95 TOP	2382.25 BW	
UT7	2381.47 TOP	2380.50 BW	
UT8		2380.56 BW	2381.86 BW
UT9		2388.37 TOP	2381.84 BW
UT10		2389.68 TOP	2386.25 BW

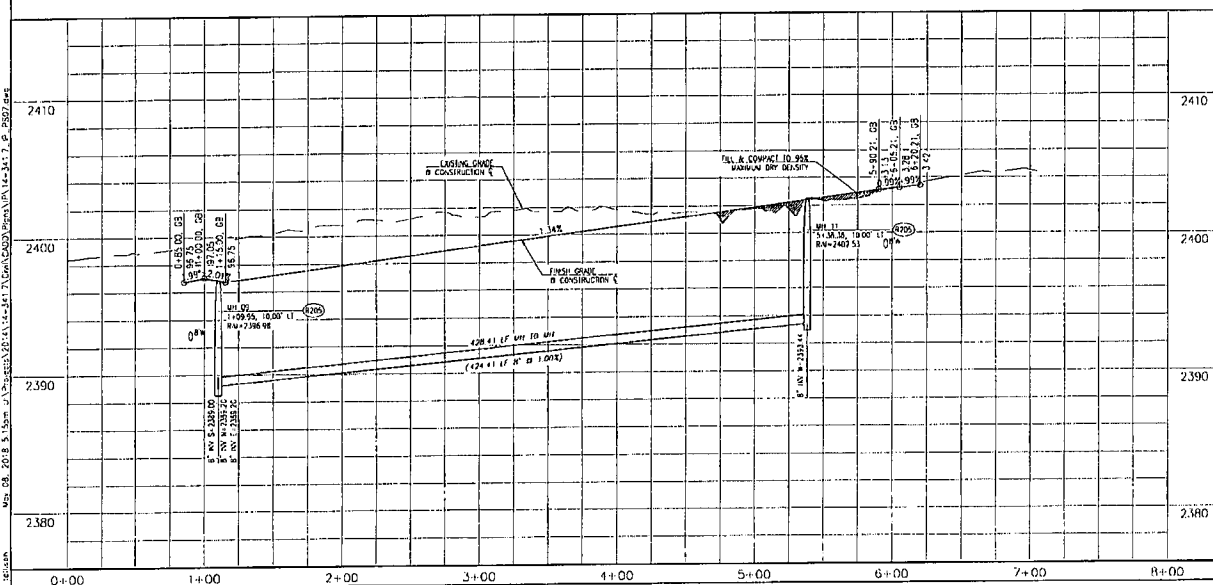
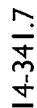


Site Construction Plan
Hardy 30
Paving & Sanitary Sewer



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REF: P17500000 P17500000



- | Line table | | |
|------------|-------------|--------|
| LINE | BEARING | LENGTH |
| 1.3 | S70°55'E | 174.3 |
| 1.7 | S70°1'29"E | 565.2 |
| 1.9 | N81°44'59"W | 502.2 |

HCS AS-BUILT INFO			
STATE PLANE COORDINATES (AZ CENTRAL) HWD 85 INTERNATIONAL FEET AT CLEANOUT		DISTANCE FROM TAP TO DOWNSTREAM VARIABLE	SEWER IN SAGGROUNDS HOLDING CONNECT
LOT #	NORTHING	EASTING	
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			

CROSSING	SEWER	WATER	STORM	OVERFLOW
UD1	2384.74 TD	2368.28 TD	-	3.61'
UD2	2383.34 TD	-	2361.58 HW	8.27'
UD3	2385.40 TD	2391.65 TD	-	6.48'
UD4	2384.71 TD	2366.22 TD	-	4.01'
UD5	2386.12 TD	2391.99 TD	-	7.67'
UD6	2389.49 TD	2392.29 TD	-	2.80'
UD7	2391.47 TD	2390.50 Dila	-	5.05'
UD8	-	2390.56 TD	2394.86 TD	4.10'
UD9	-	2386.37 TD	2391.94 TD	3.57'
UD10	-	2382.68 TD	2386.23 TD	3.27'



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Site Construction Plan
Hardy 30
Paving & Sanitary Sewer

REF B14780004 B18760001

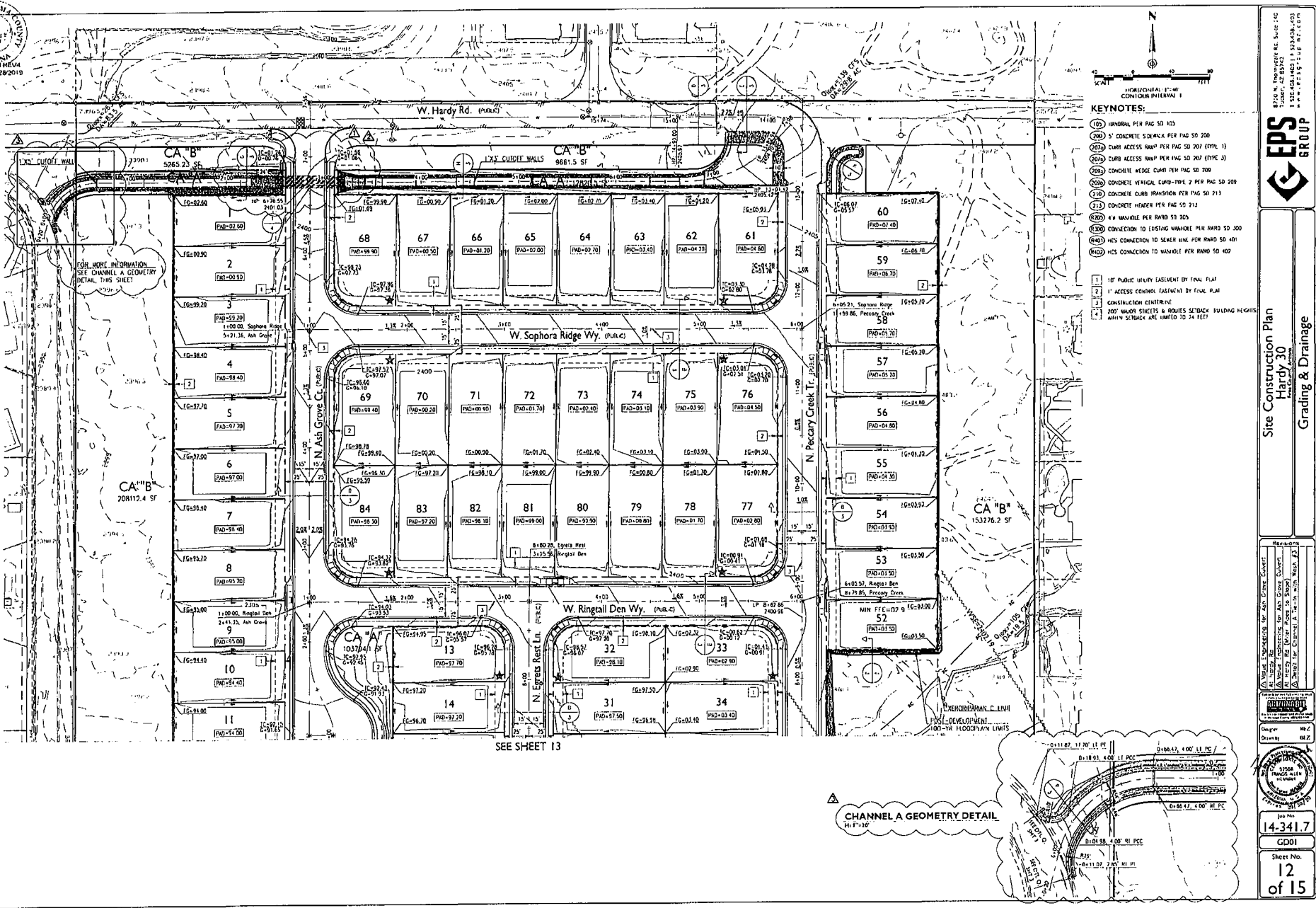
CG-2017-075

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- KEYNOTES:**
- 10' HANDRAIL PER PAG 50 105
 - 20' CONCRETE SIDEWALK PER PAG 50 200
 - 20' CURB ACCESS RAMP PER PAG 50 207 (TYPE 1)
 - 20' CURB ACCESS RAMP PER PAG 50 207 (TYPE 3)
 - 20' CONCRETE WEDGE CURB PER PAG 50 208
 - 20' CONCRETE VERTICAL CURB-TYPE 2 PER PAG 50 209
 - 20' CONCRETE CURB TRANSITION PER PAG 50 213
 - 20' CONCRETE HINDER PER PAG 50 213
 - 4" MANHOLE PER RATIO 50 305
 - CONNECTION TO EXISTING MANHOLE PER RATIO 50 300
 - H/S CONNECTION TO SEWER LINE PER RATIO 50 401
 - H/S CONNECTION TO MANHOLE PER RATIO 50 407
- 1 10' PUBLIC UTILITY EASEMENT BY FINAL PLAN
2 1' ACCESS CORRIDOR EAST/WEST BY FINAL PLAN
CONSTRUCTION CONTINUED
200' WADON SHEETS & REQUIRES SETBACK HOLDING HEIGHTS
WITHIN SETBACK ARE LIMITED TO 24 FEET

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Site Construction Plan
Hardy 30
Grading & Drainage

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CDI

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CDI

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12
of 15

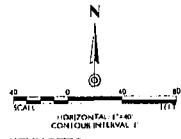
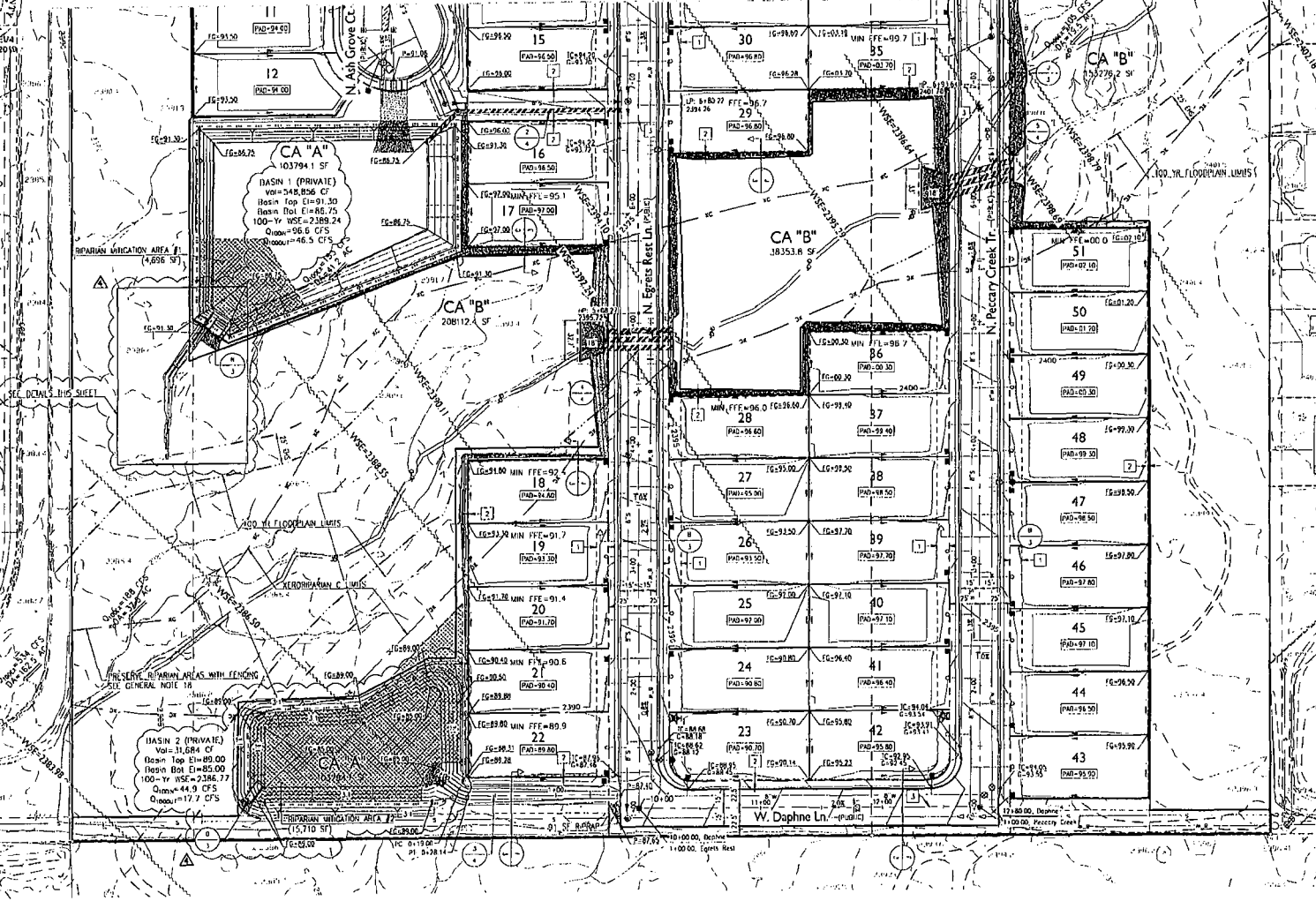


SEE SHEET 12

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Map 13, 2028 1522m U:\Projects\2024\14-341.7_P_028.dwg

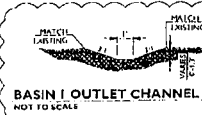
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KEYNOTES:

- 100' MINIMUM PER PAG 50 105
- 200' 5' CONCRETE SIDEWALK PER PAG 50 200
- 200' CURB ACCESS RAMP PER PAG 50 207 (TYPE 1)
- 200' CURB ACCESS RAMP PER PAG 50 207 (TYPE 2)
- 200' CONCRETE MEDIAN CURB PER PAG 50 206
- 200' CONCRETE VERTICAL CURB-TYPE 2 PER PAG 50 209
- 210' CONCRETE CURB TRANSITION PER PAG 50 213
- 213' CONCRETE HEADWALL PER PAG 50 213
- 200' 4" MANHOLE PER PAG 50 205
- 200' CONNECTION TO EXISTING MANHOLE PER PAG 50 300
- 200' HES CONNECTION TO STORM LINE PER PAG 50 401
- 200' HES CONNECTION TO MANHOLE PER PAG 50 402

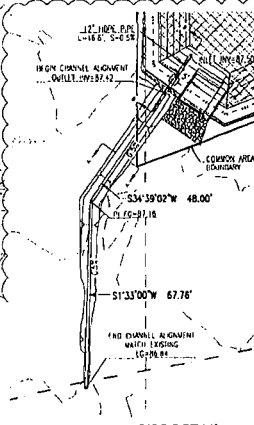
- 1' PUBLIC UTILITY EASEMENT AT FINAL PLAN
- 1' ACCESS CONTROL EASEMENT BY FINAL PLAN
- CONSTRUCTION CENTERLINE
- 200' WALKWAY SHEETS & ROUTES STRUCK BUILDING HEIGHTS WITHIN STRUCK AREAS LIMITED TO 24' 15' 11"



Basin 1 Outlet Channel
NOT TO SCALE



Pipe Profile
NOT TO SCALE



Basin 1 Outlet Pipe Detail
NOT TO SCALE

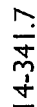
Site Construction Plan
Hardy 30
Grading & Drainage

Job No. 14-341.7
GD02
Sheet No. 13 of 15

DATE: 01/28/2011
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

EPS GROUP

175C00054



- [illegible]

SIGNING NOTES:

- ALL EQUIPMENT, MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT PWA ASSOCIATION OF GOVERNMENTS (PAG) STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES. ALL SIZES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS AND THE APPROVED DRAWINGS OF THE SPECIAL PROVISIONS AND THE APPROVED PWD.
- SIGNS MAY BE MOVED AT ANY LOCATIONS TO FIT CONDITIONS AT THE DISCRETION OF THE TRAFFIC ENGINEER.
- THE DESIGN SPEED FOR NEW ROADS IS 25 MPH. THE POSTED SPEED LIMIT WILL BE 25 MPH WITH SIGN PLACEMENT AND SPACING TO BE IN ACCORDANCE WITH THE POSTED SPEED LIMIT. THE DESIGN SPEED FOR EXISTING ROADS SHALL BE 35 MPH. THE POST LENGTHS SHALL BE PER THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL VERIFY THE ACTUAL POST LENGTHS.
- TRAFFIC SIGNALS SHALL BE INSTALLED IN A CONCERTE FOUNDATION.
- TRAFFIC SIGNALS SHALL BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ACTUAL SIGNAL LOCATIONS.

Site Construction Plan

Signing & Striping

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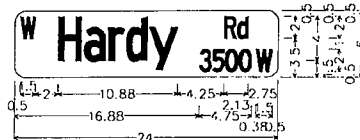
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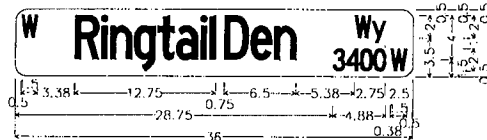


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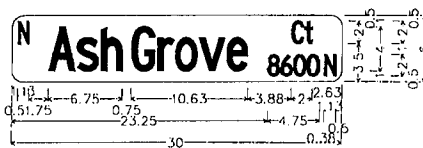
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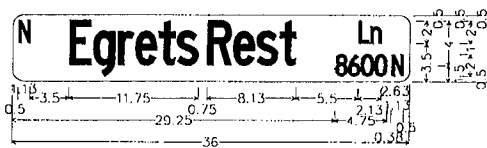
D3-1(conventional road - 6");
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[W] C; [Hardy] C 20' spacing;
[Rd] C 20' spacing;
[3500 W] C 20' spacing;



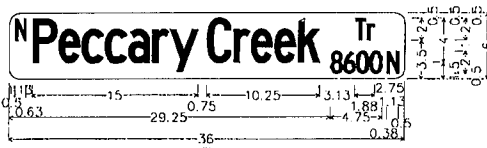
D3-1(conventional road - 6");
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[W] C; [Ringtail Den] C 20' spacing; [Wy] C 20' spacing;
[3400 W] C 20' spacing;



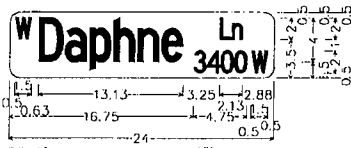
D3-1(conventional road - 6");
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[N] C; [Ash Grove] C 20' spacing;
[Ct] C 20' spacing; [8600 N] C 20' spacing;



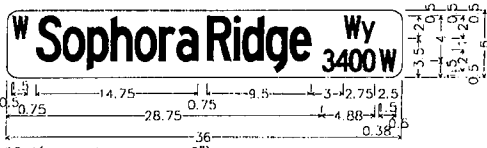
D3-1(conventional road - 6");
1.00" Radius, No border, White on Green;
[N] C; [Egrets Rest] C 20' spacing; [Ln] C 20' spacing;
[8600 N] C 20' spacing;



D3-1(conventional road - 6");
1.00" Radius, No border, White on Green;
[N] C; [Peccary Creek] C 20' spacing; [Tr] C 20' spacing;
[8600 N] C 20' spacing;



D3-1(conventional road - 6");
1.00" Radius, No border, White on Green;
[W] C; [Daphne] C 20' spacing;
[Ln] C 20' spacing;
[3400 W] C 20' spacing;



D3-1(conventional road - 6");
1.00" Radius, No border, White on Green;
[W] C; [Sophora Ridge] C 20' spacing; [Wy] C 20' spacing;
[3400 W] C 20' spacing;

SIGN SUMMARY TABLE											
SIGN No	STATION	SIGN CODE	LEGEND	A (IN)	H (IN)	SIGN PANEL AREA (SQ FT)	SHEETING TYPE	No POST	POST TYPE	TOTAL POST LENGTH (FT)	REMARKS
1	7+04.56, 19+30.81	D3-1	ASH GROVE CT	30	6	1.75	N	-	25	13	NEW, ASH GROVE ALIGNMENT
		D3-1	HARDY RD	24	6	1.00	N	-	-	-	NEW
		D3-1	SOPH RD	30	30	8.75	N	-	-	-	NEW
2	6+29.56, 18+50.13	D2-1(P2)	SPEED LIMIT (25)	24	30	5.00	N	1	25	17	NEW, ASH GROVE ALIGNMENT
3	1+49.35, 18+50.81	D3-1	SOPHORA RIDGE WY	36	6	1.50	N	1	25	12	NEW, SOPHORA RIDGE ALIGNMENT
		D3-1	ASH GROVE CT	30	6	1.25	N	-	-	-	NEW
4	1+49.35, 18+50.17	D3-1	RINGTAIL DEN WY	36	6	1.50	N	1	25	12	NEW, RINGTAIL DEN ALIGNMENT
		D3-1	ASH GROVE CT	30	6	1.25	N	-	-	-	NEW
5	8+29.98, 18+50.81	D3-1	EGRETS REST LN	36	6	1.50	N	1	25	12	NEW, EGRETS REST ALIGNMENT
		D3-1	ASH GROVE CT	30	6	1.25	N	-	-	-	NEW
6	1+59.82, 18+00.81	D3-1	EGRETS REST LN	36	6	1.50	N	1	25	12	NEW, EGRETS REST ALIGNMENT
		D3-1	DAPHNE LN	24	6	1.00	N	-	-	-	NEW
7	1+49.35, 18+50.13	D3-1	PECCARY CREEK TR	36	6	1.50	N	1	25	12	NEW, PECCARY CREEK ALIGNMENT
		D3-1	RINGTAIL DEN WY	36	6	1.50	N	1	25	12	NEW, RINGTAIL DEN ALIGNMENT
8	5+55.51, 18+50.81	D3-1	PECCARY CREEK TR	36	6	1.50	N	1	25	12	NEW, PECCARY CREEK ALIGNMENT
		D3-1	SOPHORA RIDGE WY	36	6	1.50	N	1	25	12	NEW, SOPHORA RIDGE ALIGNMENT
9	5+55.51, 18+50.81	D3-1	PECCARY CREEK TR	36	6	1.50	N	1	25	12	NEW, PECCARY CREEK ALIGNMENT
10	12+99.17, 18+50.81	A1-1E	LEFT TURN AHEAD	30	30	6.25	E	1	25	13	NEW, PECCARY CREEK ALIGNMENT
11	13+42.10, 25+07.81	D3-1	PECCARY CREEK TR	36	6	1.50	N	1	25	12	NEW, PECCARY CREEK ALIGNMENT
		D3-1	HARDY RD	24	6	1.00	N	-	-	-	NEW
12	28+25.46, 34+51.81	D2-1(P2)	SPEED LIMIT (25)	24	30	5.00	N	1	25	12	NEW, HARDY ALIGNMENT
13	28+76.48, 33.81.81	W1-2B	HIGH CURVE AHEAD	30	30	6.25	E	1	25	13	NEW, HARDY ALIGNMENT

* POST TYPE '25' REFERS TO A 2" SQUARE POST
POST LENGTHS ACCOUNT FOR 2" UNDERGROUND



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Hardy 30
Signing & Striping



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