



BOARD OF SUPERVISORS AGENDA ITEM REPORT
CONTRACTS / AWARDS / GRANTS

Requested Board Meeting Date: October 18, 2016

or Procurement Director Award

Contractor/Vendor Name (DBA): Arizona Department of Transportation (ADOT)

Project Title/Description:

ADOT Ina Road and I-10 T.I. Project (311105)

Purpose:

This is Amendment No. 1 for GMP 2 (Phase II) to the original Utility Agreement for GMP 1 (Phase I) . This will fund additional public sanitary sewer relocations necessary to resolve conflicts within the ADOT roadway improvements.

Procurement Method:

Program Goals/Predicted Outcomes:

RWRD will monitor and inspect the public sanitary sewer work that will be constructed by the ADOT roadway contractor, Sundt-Kiewitt, to assure compliance with RWRD standard specifications and provide quality control.

Public Benefit:

The RWRD public sanitary sewer relocations are required to accomodate the roadway and intersection improvements in the Ina Road and I-10 T.I. Project. When completed there will be a significant improvement in traffic flows with reduced congestion and a bridge over the Union Pacific Rail Road to prevent large traffic backups.

Metrics Available to Measure Performance:

Final audit of total costs for the sewer work and compliance with the scheduled completion dates.

Retroactive:

No

To: COB. 9.30.16 (1)
pgs. 34

Procure Dept 09/29/16 10:41

Original Information

Document Type: _____ Department Code: _____ Contract Number (i.e.,15-123): _____

Effective Date: _____ Termination Date: _____ Prior Contract Number (Synergen/CMS): _____

Expense Amount: \$ _____ Revenue Amount: \$ _____

Funding Source(s): _____

Cost to Pima County General Fund: 0

Contract is fully or partially funded with Federal Funds? Yes No Not Applicable to Grant Awards

Were insurance or indemnity clauses modified? Yes No Not Applicable to Grant Awards

Vendor is using a Social Security Number? Yes No Not Applicable to Grant Awards

If Yes, attach the required form per Administrative Procedure 22-73.

Amendment Information

Document Type: CT Department Code: WW Contract Number (i.e.,15-123): 16-273

Amendment No.: One (1) AMS Version No.: 6

Effective Date: 10/18/2016 New Termination Date: 6/30/2017

Expense Revenue Increase Decrease Amount This Amendment: \$ 1,272,584.00

Funding Source(s): RWRD Obligations

Cost to Pima County General Fund: \$ 0

Contact: Glen Peterson

Department: RWRD Telephone: 724-6349

Department Director Signature/Date: [Signature] 9/26/16

Deputy County Administrator Signature/Date: [Signature] 9/28/16

County Administrator Signature/Date: [Signature] 9/28/16
(Required for Board Agenda/Addendum Items)

**STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION**

TRACS No.	010 PM 248 H8479 01C	Location: I-10, Ina Road TI
Project No.	NH-STP-010-D(216)S	Agreement No. 3597-15-PCRWRD
UTILITY:	Pima County Regional Wastewater Reclamation Department Public Works Building 201 N. Stone Avenue, 3 rd Floor Tucson, AZ 85701-1207	Agreement Addendum No. 1 Original Agreement AG Contract: P001-2016-000903

Pima County Regional Wastewater Reclamation Department (PIMA COUNTY) and the Arizona Department of Transportation (ADOT) hereby agree to modify the existing referenced Agreement as provided in this Addendum, including Attachments. All other provisions of the Agreement, as modified by any previous addenda, remain in effect.

WHEREAS: The ADOT contractor will RELOCATE and REMOVE Pima County Regional Wastewater Reclamation Department facilities which are in conflict with the PROJECT construction. Construction is a CMAR contract and work will be completed in two parts. This addendum is for GMP 2. The work for GMP 1 is in the original agreement. The work for GMP 2 is as shown in revised Exhibit B. Payment responsibility for these items is identified in Exhibit A. See Exhibit C for prior right documentation excerpted from Agreement 3597-15-PCRWRD.

THEREFORE: All work covered by this addendum consists of the relocation and removal of PCRWRD facilities in conflict with the project construction of GMP 2. The parties hereto agree that Agreement No. 3597-15-PCRWRD is hereby amended to represent a cost increase of \$1,272,584 as shown on the attached Exhibit A.

All other provisions of Agreement No. 3597-15-PCRWRD shall remain unabrogated.

Addendum No. 1 Attachments: REVISED Exhibit A
REVISED Exhibit B
Exhibit C

Addendum No. 1
3597-15-PCRWRD

<p>PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (RWRD)</p> <p>PROJECT: ADOT Ina Road and I-10 T.I. NH-STP-010-D(216)S</p> <p>CONTRACTOR: Sundt-Kiewitt</p> <p>CONTRACT NO.: 16 – 0273 (Pima County) P 001-2016-000903 (ADOT)</p> <p>CONTRACT AMENDMENT NO.: One (1)</p>	<table border="1"> <tr> <td colspan="2" style="text-align: center;">CONTRACT</td> </tr> <tr> <td>NO.</td> <td><u>CT-WW-16-273</u></td> </tr> <tr> <td>AMENDMENT NO.</td> <td><u>01</u></td> </tr> <tr> <td colspan="2"> <small>This number must appear on all invoices, correspondence and documents pertaining to this contract.</small> </td> </tr> </table>	CONTRACT		NO.	<u>CT-WW-16-273</u>	AMENDMENT NO.	<u>01</u>	<small>This number must appear on all invoices, correspondence and documents pertaining to this contract.</small>	
CONTRACT									
NO.	<u>CT-WW-16-273</u>								
AMENDMENT NO.	<u>01</u>								
<small>This number must appear on all invoices, correspondence and documents pertaining to this contract.</small>									

ORIG. CONTRACT TERM: 05/01/2016 - 06/30/2017
TERMINATION DATE PRIOR AMENDMENT: N/A
TERMINATION THIS AMENDMENT: 06/30/2017

ORIG. CONTRACT AMOUNT: \$ 0.00
PRIOR AMENDMENTS: \$ 0.00
AMOUNT THIS AMENDMENT: \$ 1,272,584
REVISED CONTRACT AMOUNT: \$ 1,272,584

CONTRACT AMENDMENT

WHEREAS, COUNTY and CONTRACTOR entered into a Contract for services as referenced above; and

WHEREAS, CONTRACTOR and COUNTY have agreed to increase the contract amount to allow payment for the continued provision of the labor, equipment and materials necessary for the Public Sanitary Sewer Facilities to be constructed during the term of the original contract.

NOW, THEREFORE, it is agreed as follows:

CHANGE: ARTICLE I - PAYMENT:

From: "Total payment for this Contract shall not exceed \$ 0.00."

To: "Total payment for this Contract shall not exceed \$ 1,272,584."

The effective date of this Amendment shall be October 18, 2016.

(THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK)

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT.

ARIZONA DEPARTMENT OF TRANSPORTATION

By _____ Date _____
Victoria D. Bever
Utility & Railroad Engineering Manager

ACKNOWLEDGMENT BY UTILITY

Pima County:

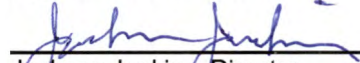
Chairman, Board of Supervisors

Date

Attest:

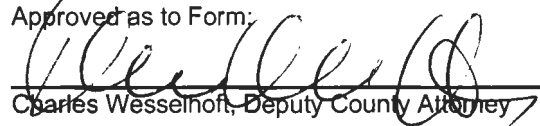
Clerk of the Board

Approved as to Content:



Jackson Jenkins, Director
Pima County Regional Wastewater Reclamation Department

Approved as to Form:

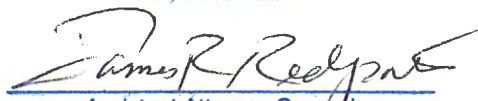


Charles Wesselhoff, Deputy County Attorney

8-24-16

Date

APPROVED



Assistant Attorney General
Attorney for Department
of Transportation

Date 8/18/16

REVISED EXHIBIT A

**ADDENDUM NO. 1 TO AGREEMENT NO. 3597-15-PCRWRD
I-10, INA ROAD TI
010 PM 248 H8479 01C
PCRWRD**

SUMMARY OF GMP2 ESTIMATED COST

PCRWRD PAID ADOT GMP1 Per Original Agreement 3597-15-PCRWRD	\$ 0
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PCRWRD COST RESPONSIBILITY GMP2

PCRWRD Costs for No Prior Right (ADOT Portion) GMP2 H8479	\$ 57,330
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PCRWRD Costs for No Prior Right (Town of Marana Portion) GMP2 H8479	\$ 1,019,765
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PCRWRD Costs for No Prior Right (Town of Marana Portion) GMP2 SB413	\$ 29,500
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Total Estimated Construction Costs	\$ 1,106,595
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15% Construction Engineering	\$ 165,989
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PCRWRD Total Due ADOT GMP2	\$1,272,584
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PROJECT NO. 010 PM 248 H8479 01C											
FEDERAL AID 010-D(216)S											
I-10 INA ROAD TI											
PCRWRD COSTS FOR NO PRIOR RIGHTS											
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ADOT PORTION			TOWN PORTION			AMOUNT
					PERCENTAGE	QUANTITY	EXTENDED AMOUNT	PERCENTAGE	QUANTITY	EXTENDED AMOUNT	
2020042	REMOVAL OF PIPE (GRAVITY SEWER)	L.FT.	2,334	\$ 30.00	17.99%	420.000	\$ 12,600.00	82.01%	1,914.000	\$ 57,420.00	\$ 70,020.00
2020116	REMOVE (SEWER MANHOLE)	EACH	7	\$ 1,000.00	28.57%	2.000	\$ 2,000.00	71.43%	5.000	\$ 5,000.00	\$ 7,000.00
8090186	SEWER PIPE (8" PVC) (SDR 35)	L.FT.	465	\$ 85.00		-	\$ -	100.00%	465.000	\$ 39,525.00	\$ 39,525.00
8090188	SEWER PIPE (24" PVC) (PS 46)	L.FT.	345	\$ 218.00		-	\$ -	100.00%	345.000	\$ 75,210.00	\$ 75,210.00
8090189	SEWER PIPE (36" PVC) (PS 46)	L.FT.	234	\$ 240.00		-	\$ -	100.00%	234.000	\$ 56,160.00	\$ 56,160.00
8090190	SEWER PIPE (8") (DUCTILE IRON) (CLASS 350)	L.FT.	16	\$ 110.00		-	\$ -	100.00%	16.000	\$ 1,760.00	\$ 1,760.00
8090192	SEWER PIPE (36") (DUCTILE IRON) (CLASS 350)	L.FT.	18	\$ 270.00		-	\$ -	100.00%	18.000	\$ 4,860.00	\$ 4,860.00
8091111	MANHOLE, SANITARY SEWER, 4' DIA.	EACH	1	\$ 4,500.00		-	\$ -	100.00%	1.000	\$ 4,500.00	\$ 4,500.00
809XXXX	MANHOLE, SANITARY SEWER (6' DIA.)	EACH	3	\$ 12,000.00		-	\$ -	100.00%	3.000	\$ 36,000.00	\$ 36,000.00
8091114	MANHOLE, SANITARY SEWER (8' DIA.)	EACH	3	\$ 14,000.00		-	\$ -	100.00%	3.000	\$ 42,000.00	\$ 42,000.00
8091115	MANHOLE, SANITARY SEWER (10' DIA.)	EACH	1	\$ 15,000.00		-	\$ -	100.00%	1.000	\$ 15,000.00	\$ 15,000.00
8092010	HOUSE CONNECTION, SEWER (BUSINESS)	EACH	4	\$ 1,200.00		-	\$ -	100.00%	4.000	\$ 4,800.00	\$ 4,800.00
809XXXX	SEWER MANHOLE (ADJUST FRAME AND COVER)	EACH	3	\$ 600.00		-	\$ -	100.00%	3.000	\$ 1,800.00	\$ 1,800.00
809XXXX	SEWER CLEANOUT (ADJUST FRAME AND COVER)	EACH	1	\$ 450.00		-	\$ -	100.00%	1.000	\$ 450.00	\$ 450.00
9090004	SURVEY MONUMENT (FORCE MAIN MONUMENT) (RWRD 503)	EACH	1	\$ 850.00		-	\$ -	100.00%	1.000	\$ 850.00	\$ 850.00
9240055	MISCELLANEOUS WORK (SANITARY SEWER FLOW MANAGEMENT PLAN #3)	L.SUM	1	\$ 600,000.00		-	\$ -	100.00%	1.000	\$ 600,000.00	\$ 600,000.00
9240113	MISCELLANEOUS WORK (REMOVE SEWER FORCE MAIN)	L.FT.	3,870	\$ 30.00	35.89%	1,389.000	\$ 41,670.00	64.11%	2,481.000	\$ 74,430.00	\$ 116,100.00
9240148	MISCELLANEOUS WORK (ABANDON SANITARY SEWER) (IN PLACE)	L.FT.	212	\$ 5.00	100.00%	212.000	\$ 1,060.00		-	\$ -	\$ 1,060.00
SUBTOTAL							\$ 57,330.00			\$ 1,019,765.00	\$ 1,077,095.00

REVISED EXHIBIT A
ADDENDUM 1
3597-15-PCRWRD

PROJECT NO. 0000 PM MRN SB413 01C					
FEDERAL AID MRN-0(014)S					
INA ROAD, SILVERBELL RD TO STARCOMMERCE WY					
PCRWRD COSTS FOR NO PRIOR RIGHTS (TOWN DETERMINATION)					
ITEM NO	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
9090004	SURVEY MONUMENT (FORCE MAIN MONUMENT) (RWRD 503)	EACH	10	\$ 850.00	\$ 8,500.00
9240113	MISCELLANEOUS WORK (REMOVE SEWER FORCE MAIN)	L.FT.	700	\$ 30.00	\$ 21,000.00
				SUBTOTAL	\$ 29,500.00

**REVISED EXHIBIT A
ADDENDUM 1
3597-15-PCRWRD**

REVISED EXHIBIT B

**ADDENDUM NO. 1 TO AGREEMENT NO. 3597-15-PCRWRD
I-10, INA ROAD TI
GMP2**

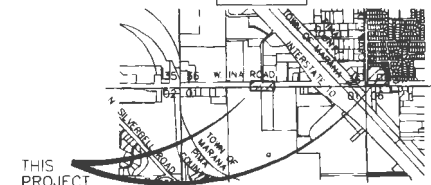
CONSTRUCTION PLANS GMP2- H8479 & SB413



PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT

INA ROAD FORCE MAIN MODIFICATION N. DOYLE LOOP TO SANTA CRUZ RIVER AND GRAVITY SEWER EAST OF 1-10 UPC-2014-013

P.A.R.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-DI21615	830	843	
010 PM 248					



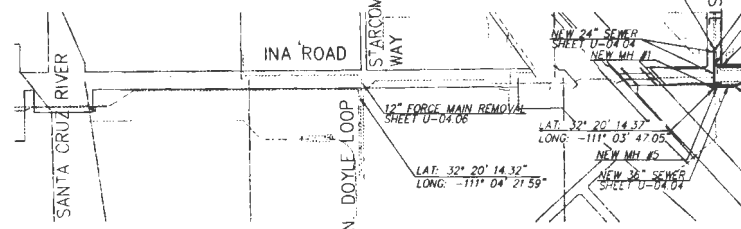
LOCATION MAP
SCALE: 3" = 1 mile
BEING A PORTION OF THE
NW 1/4 OF SECTION 1, T-13-S, R-12-E,
SW 1/4 OF SECTION 36, T-12-S, R-12-E, AND
SW 1/4 OF SECTION 31, T-12-S, R-15-E,
0835M,
TOWN OF MARANA, PIMA COUNTY, ARIZONA

12" FORCE MAIN DISCHARGE POINT
LATITUDE: 32° 20' 14.32" N
LONGITUDE: 111° 04' 21.59" W

GRAVITY SEWER DISCHARGE POINT
LATITUDE: 32° 03' 14.31" N
LONGITUDE: 111° 03' 47.05" W

NEW	EXISTING	FEATURE
⊙	⊙	MANHOLE, SANITARY SEWER
—S—	—S—	SANITARY SEWER LINE (GRAVITY)
—FM—	—S—FM—	SANITARY SEWER LINE (FORCE MAIN)
⊕		FORCE MAIN TEST STATION
—G—		GAS LINE
—G—		GAS MARKER
—UCT—		UNDERGROUND TELEPHONE LINE
—UG—		UNDERGROUND ELECTRIC LINE
—FD—		UNDERGROUND FIBER OPTIC LINE
—OHE—		OVERHEAD ELECTRIC
—W—		WATER MAIN
⊕	⊕	WATER METER BOX
⊕	⊕	GAS METER BOX
⊕	⊕	WATER VALVE
⊕	⊕	GAS VALVE
⊕	⊕	IRRIGATION BOX
⊕	⊕	TELEPHONE PEDESTAL
⊕	⊕	ELECTRIC POLE W/ GUY WIRE
⊕	⊕	ELECTRICAL TRANSFORMER
⊕	⊕	ELECTRICAL PEDESTAL
—RDL—		RIGHT OF WAY LINE
—PL—		PROPERTY LINE
—EAL—		EASEMENT LINE
—GP—		GRADE PROFILE
—SL—		SECTION LINE
—QSL—		QUARTER SECTION LINE
⊕		FORCE MAIN MONUMENT
⊕		ABANDON/REMOVE EXISTING SEWER

ABBREVIATIONS	DESCRIPTION
PCRWDR	PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
PCDDT	PIMA COUNTY DEPARTMENT OF TRANSPORTATION
PCFCD	PIMA COUNTY FLOOD CONTROL DISTRICT
COT	CITY OF TUCSON
ADEC	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
ADWR	ARIZONA DEPARTMENT OF WATER RESOURCES
CCTV	CLOSED CIRCUIT TELEVISION
EDS 2016	PCRWDR ENGINEERING DESIGN STANDARDS 2016
SSDC 2016	PCRWDR STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2016
EL.	ELEVATION
EX.	EXISTING
INV.	INVERT
VT.	VERTICAL
PT.	POINT
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE PIPE
PVC	POLYVINYL CHLORIDE PIPE
DIP	DUCTILE IRON PIPE



INDEX OF SHEETS

PAGE NO.	SHEET NO.	SHEET CONTENT
830	U-4.01	Cover Sheet
831-832	U-4.02 - U-4.03	General Notes
833-836	U-4.04 - U-4.07	Plan and Profile Sheets
		Pipe Material Sheet
837	U-4.08	Reset MH Frame & Cover
838	U-4.09	Survey Control Sheet
839-843	U-4.10-4.14	Detail Sheets

SUMMARY OF MATERIALS TABLE

Description	Est. Qty.	Unit
HOUSE CONNECTION SEWER (BUSINESS)	4	EACH
SURVEY MONUMENT (FORCE MAIN)	1	EACH
8" PVC PIPE, SDR-35	465	L.F.
24" PVC, PS46	345	L.F.
36" PVC PIPE, PS46	234	L.F.
8" DI PIPE, CL 350	16	L.F.
24" DI PIPE, CL 350	24	L.F.
36" DI PIPE, CL 350	18	L.F.
SEWER MANHOLE, 4" DIAMETER	1	EACH
SEWER MANHOLE, 72" DIAMETER	3	EACH
SEWER MANHOLE, 96" DIAMETER	3	EACH
SEWER MANHOLE, 120" DIAMETER	1	EACH
RESET FRAME AND COVER FOR CLEANOUT	1	EACH
RESET FRAME AND COVER FOR MANHOLE	3	EACH

SUMMARY OF REMOVAL TABLE

Description	Est. Qty.	Unit
12" PVC FORCE MAIN, REMOVE	418	L.F.
MANHOLE, REMOVE	6	EACH
8" VCP GRAVITY SEWER, REMOVE	448	L.F.
24" VCP GRAVITY SEWER, REMOVE	192	L.F.
30" VCP GRAVITY SEWER, REMOVE	117	L.F.
36" RCP GRAVITY SEWER, REMOVE	238	L.F.
48" RCP GRAVITY SEWER, REMOVE	68	L.F.

BOARD OF SUPERVISORS

DISTRICT	NAME	MEMBER
DISTRICT 2	RAMON VALADEZ	MEMBER
DISTRICT 1	ALYX MILLER	MEMBER
DISTRICT 3	SHARON GRONSON	CHAIRMAN
DISTRICT 4	RAY J. CARROLL	MEMBER
DISTRICT 5	RICHARD ELIAS	MEMBER

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPT.

ERIC WEIDURTL, P.E. DEPUTY DIRECTOR DATE

TOWN OF MARANA (for Sewer location in R.O.W. only) DATE

As-Built Certification
AS-BUILT:
I hereby certify that the As-Built annotations provided on these drawings were based on an As-Built survey conducted under my supervision and accurately depicts existing field conditions to the best of my knowledge and belief.

REGISTERED LAND SURVEYOR DATE
(OR REGISTERED P.E.)

UTILITIES AND OTHER LISTINGS

Organization	Phone Number
Tucson Electric Power	(520) 918-8246
Coa Cable	(520) 629-8511
Century Link Comm.	(520) 292-1555
Comcast Cable	(520) 744-1900
Tucson Water	(520) 791-2648
Pima County DOT	(520) 724-6367
Southwest Gas	(520) 794-6021

NOTE:
GRAVITY SEWER REMOVAL WILL BE BID AS LINEAR FEET FOR ALL SIZES AND LENGTHS LISTED ABOVE UNDER BID ITEM 2020042

NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION	PRELIMINARY
DESIGN: A. LEVINSKY	7/15	INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION	STAGE V
DRAWN: D. ZAVAJA	9/16	ROADWAY DESIGN SERVICES	Review
CHECKED: M. DALY	9/16		NOT FOR CONSTRUCTION OR RECORDING
ROUTE: I-10	LOCATION: INA ROAD T.I.	INA ROAD SEWER MODIFICATION PLANS COVER SHEET	DWG. NO. U-04.01
TRACS NO. H8479 OIC		010-DI21615	OF

EXHIBIT B
3597-15-PCRWDR
ADDENDUM 1

NO.	DATE	REVISION	BY	CHKD.	APPR.

HORIZONTAL & VERTICAL CONTROL TABLE
SEE SURVEY CONTROL SHEET

G-2015-097

GENERAL NOTES


PROJECT NO.	010-D(216)	SHEET NO.	845
010-H-248			

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH THE PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWWD) ENGINEERING DESIGN STANDARDS 2016 (EDS 2016) AND THE STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2016 (SSDC 2016). SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWWD WEBSITE: www.pima.gov/wastewater/permitsinfo.
2. COORDINATE SYSTEM: ARIZONA STATE PLANE, NAD 83 (92 EPOCH), CENTRAL ZONE, GAF 1.00016

BASIS OF HORIZONTAL/VERTICAL CONTROL: MAPPING ESTABLISHED IN 2002 BY ENTRANCO ENGINEERS WAS RECOVERED AND FOUND TO AGREE WELL WITH THE ABOVE PARAMETERS.

DESIGN INFORMATION BASED UPON AERIAL PHOTOGRAMMETRIC MAPPING SUPPLIED BY ADOT. PHOTOGRAMMETRY JOB NO. 3803 - AERIAL PHOTOGRAPHY DATED OCTOBER 29, 2008. SEE GEOMETRIC CONTROL, SHEET U-04-09.
3. NOT USED
4. 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 RWWD SEWER CONSTRUCTION PERMIT PRIOR TO COMMENCING THAT ACTIVITY.
5. SEWER CONSTRUCTION SHALL NOT COMMENCE UNTIL: (A) THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) OR ITS DELEGATED AUTHORITY HAS ISSUED A CONSTRUCTION AUTHORIZATION FOR THIS PROJECT; (B) THE CONTRACTOR HAS OBTAINED A PCRWWD PUBLIC SEWER CONSTRUCTION PERMIT (CONTACT THE PCRWWD PERMITS SECTION AT (520) 724-6649 FOR PERMIT APPLICATION REQUIREMENTS); (C) THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCRWWD FIELD ENGINEERING; AND (D) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THIRTY (30) FULL BUSINESS DAYS PRIOR TO COMMENCING WITH SEWER CONSTRUCTION.
6. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO PCRWWD 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 1FN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO PCRWWD SSDC 2016, SECTION 2 FOR FMP REQUIREMENTS. PLEASE CONTACT PCRWWD FIELD ENGINEERING AT (520) 724-2651 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.
7. THE CONTRACTOR SHALL FURNISH, OPERATE AND MAINTAIN ALL EQUIPMENT AND LABOR NECESSARY TO PROVIDE CONTINUOUS 24 HOURS PER DAY SANITARY SEWER SERVICE TO ALL PARTIES TRIBUTARY TO A LIVE SEWER TO WHICH A CONNECTION IS TO BE MADE. THE PCRWWD CONVEYANCE DIVISION SHALL BE NOTIFIED AT (520) 724-3400 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES THAT IMPACTS THE FLOW WITHIN A LIVE SANITARY SEWER SYSTEM OR INVOLVES CONNECTING TO A LIVE SANITARY SEWER. SEE PCRWWD SSDC 2016, SECTION 2 FOR MORE INFORMATION.
8. THE INSPECTION OF THE CONTRACTOR'S WORK BY AN AGENCY AND/OR PCRWWD STAFF SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR COMPLIANCE WITH THE REQUIREMENTS OF THE APPROVED CONTRACT DOCUMENTS. IF THE DESIGN ENGINEER OR PCRWWD STAFF FAIL TO POINT OUT A DEFECT, DEFICIENCY OR ERROR IN THE WORK FROM LACK OF DISCOVERY OR ANY OTHER REASON, IT SHALL IN NO WAY PREVENT LATER REJECTION OR RELIEVE 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.
9. SEWER PLANS THAT BEAR THE PIMA COUNTY DEVELOPMENT SERVICES DEPARTMENT (OSD) APPROVAL STAMP OR THE PIMA COUNTY RWWD ACCEPTANCE SIGNATURE SHALL ONLY BE USED FOR THE CONSTRUCTION OF PUBLIC SANITARY SEWER FACILITIES. APPROVED PLANS REQUIRING DESIGN REVISIONS SHALL BE RESUBMITTED TO PIMA COUNTY OSD OR RWWD (AS APPROPRIATE) FOR REVIEW AND RE-APPROVAL PRIOR TO START OF THE REVISED SEWER WORK.
10. ANY SEWER CONSTRUCTION WORK THAT IS NOT INCLUDED IN THE APPROVED SEWER PLANS WILL NOT BE ACCEPTED BY PCRWWD. SEE PCRWWD SSDC 2016, SECTION 1.4.5 REGARDING THE APPROVAL OF FIELD CHANGES.
11. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCRWWD OPERATIONS CONTROL CENTER (OCC) AT (520) 724-3400: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWWD REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWWD FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWWD FIELD REPRESENTATIVE.
12. THE CONTRACTOR SHALL CONTACT "ARIZONA 811" (DIAL 811 OR 1-800-762-5348) 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. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
14. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION. VERIFICATION MAY REQUIRE POT-HOLING.
15. ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES EXISTING DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES, PER PCRWWD SSDC 2016 DETAIL NO. RWDD 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWWD. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCRWWD. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED.
16. SURVEY LAYOUT AND SUPPLY CONTROL SHALL BE PERFORMED BY, OR UNDER, THE DIRECT SUPERVISION OF AN ARIZONA RLS.
17. SURVEY CUT SHEETS SHALL BE PREPARED IN ACCORDANCE WITH PCRWWD SSDC 2016, SECTION 3.2.3(A)(1). CERTIFIED CUT SHEETS SHALL BE SUBMITTED TO THE PCRWWD FIELD ENGINEER PRIOR TO COMMENCEMENT OF SEWER CONSTRUCTION. CUT SHEETS ARE FOR PCRWWD 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 PCRWWD. REFER TO PCRWWD SSDC 2016, SECTION 3.2.3(A)(1) FOR CONSTRUCTION SURVEY STAKING REQUIREMENTS.
18. THE DEVELOPER OR CONTRACTOR SHALL OBTAIN AN ARIZONA REGISTERED LAND SURVEYOR (RLS) FOR PREPARATION OF THE SEWER AS-BUILT PLANS. SEWER AS-BUILT PLANS SHALL CONFORM TO SSDC 2016, SECTION 1.4.7 AND ARE REQUIRED FOR FINAL ACCEPTANCE OF SEWER CONSTRUCTION BY PCRWWD. THE DEVELOPER OR CONTRACTOR SHALL SUBMIT TWO FULL-SIZE COPIES, AND AN ELECTRONIC VERSION, OF THE AS-BUILT SEWER PLANS TO THE PCRWWD FIELD ENGINEER.
19. NEW PUBLIC SANITARY SEWER FACILITIES MUST BE TESTED, INSPECTED AND AUTHORIZED FOR DISCHARGE BY PCRWWD AND ADEQ, OR ITS DELEGATE, PRIOR TO DISCHARGING INTO THE EXISTING PUBLIC SANITARY SEWER SYSTEM.
20. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AT ALL TIMES.
21. 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 SEWER PIPE. BEDDING, SHADING, AND TRENCH BACKFILL COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH PCRWWD SSDC 2016, DETAIL NO. RWDD 104, OR AS SHOWN ON THE PLANS. SHOULD GROUND WATER OR UNANTICIPATED SOIL CONDITIONS BE ENCOUNTERED, THE BEDDING SHALL BE MODIFIED BY THE DESIGN ENGINEER AND APPROVED BY THE PCRWWD 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 PCRWWD. 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.
22. 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 PCRWWD FIELD ENGINEER PRIOR TO THE START OF SEWER CONSTRUCTION.
23. THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN PUBLIC WATER MAINS AND PUBLIC SEWER LINES SHALL COMPLY WITH ARIZONA ADMINISTRATIVE CODE (A.A.C.) HIB-5-502 AND PCRWWD SSDC 2016, DETAIL NO. RWDD 108.
24. PLANTING WITHIN PUBLIC SEWER EASEMENTS SHALL ONLY BE ALLOWED WITH SPECIAL APPROVAL. TREES WITH BRANCHES OR ROOTS HAVING THE POTENTIAL TO EXTEND INTO PUBLIC SEWER EASEMENTS SHALL BE AVOIDED. IN SPECIAL CASES, WHERE THE PUBLIC SEWERS MUST BE LOCATED OUTSIDE PAVED OR STABILIZED AREAS, LANDSCAPING AND PLANTING SHALL ADHERE TO GUIDELINES IN PCRWWD EDS 2016, SECTION 7.7 AND PCRWWD SSDC 2016, DETAIL NO. RWDD 111.
25. ALL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEASURES SHALL BE INSTALLED TO PREVENT ALL STORM WATER, CONSTRUCTION WATERS, 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 DETERMINED NECESSARY BY PCRWWD.
26. ALL PROJECT ACTIVITIES MUST BE KEPT WITHIN THE PROJECT AREAS. CONCERNING HUMAN BURIAL REMAINS, ARCHAEOLOGICAL CLEARANCE RECOMMENDATIONS DO NOT EXEMPT THE DEVELOPMENT FROM COMPLYING WITH STATE BURIAL PROTECTION LAWS. IN THE EVENT THAT HUMAN REMAINS, INCLUDING HUMAN SKELETAL REMAINS, CREMATIONS, CEREMONIAL OBJECTS OR FUNERARY OBJECTS, ARE FOUND DURING EXCAVATION OR CONSTRUCTION, GROUND DISTURBING ACTIVITIES MUST CEASE IN THE IMMEDIATE VICINITY OF THE DISCOVERY. ARIZONA STATE LAWS ARS 41-844 AND 41-865 REQUIRE THAT THE ARIZONA STATE MUSEUM BE NOTIFIED OF THE DISCOVERY AT (520) 621-4195 SO THAT CULTURAL GROUPS WHO CLAIM CULTURAL OR RELIGIOUS AFFINITY TO THE REMAINS CAN MAKE APPROPRIATE ARRANGEMENTS FOR THE REPATRIATION AND REBURIAL OF THE REMAINS. 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.
27. SPECIAL CARE SHALL BE TAKEN TO ENSURE DESIGN SLOPES ARE MAINTAINED. SEWERS CONSTRUCTED AT INSUFFICIENT SLOPES WILL NOT BE ACCEPTED BY PCRWWD FIELD ENGINEERING AND/OR ADEQ. CORRECTIVE ACTION, INCLUDING RE-CONSTRUCTION OF THE SEWERS, IS AT THE SOLE EXPENSE OF THE PROJECT OWNER/CONTRACTOR.

EXHIBIT B
2007-16-PCRWWD
ADDENDUM 1

			0-2015-097 PSOMAS PIMA COUNTY WATERWAYS REGULATORY			ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES			PRR INITIAL REVIEW STAGE V Review 0111 04 10/08 4.1 10/11 HR REC 4.1 11/15 10/08 04 10/11		
TRACS NO. H8479 OIC			LOCATION I-10			INA ROAD T.I.			PROJECT NUMBER 010-D(216)S		
NO.	DATE	REVISION	BY	CHKD.	APPR.						

GENERAL NOTES (cont.)

PROJECT NO.	010-DI216-5	SHEET NO.	843
DATE	010 PM 248		

28. THE CONTRACTOR SHALL ADJUST OR RECONSTRUCT ALL SANITARY SEWER MANHOLES TO FINISHED GRADE. ALL FRAMES AND COVER ADJUSTMENTS SHALL BE IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NUMBERS RWRD 211, 212, 304 OR 305 (AS APPLICABLE). THE CONTRACTOR SHALL PROTECT THE BENCH AND FLOW CHANNELS WITH A COVER PER PCRWRD SSDC 2016, DETAIL NO. RWRD 306. PRIOR TO COMMENCING ANY WORK TO THE MANHOLE AND REMOVE THE COVER AFTER ALL WORK IS COMPLETED. THE CONTRACTOR SHALL ENSURE THAT FRAMES AND COVERS ARE CLEAN AND FREE FROM ANY AND ALL ATTACHED MATERIALS (ASPHALT, CONCRETE, ETC.) AND THAT ALL VENT HOLES ARE OPEN AND CLEAR OF OBSTRUCTIONS. AS APPROVED BY THE PCRWRD FIELD ENGINEER, EXISTING FRAMES AND/OR COVERS THAT ARE DAMAGED OR CANNOT BE COMPLETELY CLEANED SHALL BE REPLACED WITH A NEW FRAME AND COVER IN ACCORDANCE WITH PCRWRD SSDC 2016, DETAIL NO. RWRD 213-218. COSTS ASSOCIATED WITH EXISTING FRAMES AND COVERS THAT ARE LOST OR DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

29. WHERE CONNECTIONS TO EXISTING MANHOLES ARE TO BE MADE, THE CONTRACTOR SHALL CONSTRUCT NEW INVERTS IN THE EXISTING BASE TO SMOOTHLY DIRECT THE FLOW IN THE PROPER DIRECTION.

30. 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 (PUBLIC) SANITARY SEWER CONVEYANCE SYSTEM.

31. ALL DISTURBED AREAS SHALL BE REPAIRED TO PROVIDE POSITIVE DRAINAGE AND TO MATCH THE EXISTING DRAINAGE PATTERNS. WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT WITH NO SEPARATE COMPENSATION PROVIDED.

32. NO REGULATORY FEMA FLOODPLAINS EXIST WITHIN THE PROJECT LIMITS. THE PROJECT IS LOCATED ENTIRELY WITHIN ZONE X.


MANHOLE AS-BUILT INFO		
MH NO	STATE PLANE COORDINATES (AZ CENTRAL) NAD 83 INTERNATIONAL FEET	
	NORTHING	EASTING
MH# 1		
MH# 2		
MH# 3		
MH# 4		
MH# 5		
MH# 6		
MH# 7		
MH# 8		

HCS AS-BUILT INFO				
LOT #	STATE PLANE COORDINATES (AZ CENTRAL) NAD 83 INTERNATIONAL FEET		DISTANCE FROM TAP TO DOWNSTREAM MANHOLE	SEWER LINE STA'ING AT HCS/BOIS CONNECTION
	NORTHING	EASTING		
225-35-014F				
225-36-014D				
225-35-014C				
101-05-010C				

ADEQ NOTES

1. ALL SEWER LINES SHALL BE COVERED WITH AT LEAST 4 FEET OF BACKFILL PER PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PCRWRD).
2. THE FULL LENGTH OF SEWER MAIN SHALL BE DEFLECTION TESTED PER A.A.C. R18-9-E301 (D) (2) (i).
3. EACH SEGMENT OF THE SEWER MAIN SHALL BE LEAK TESTED PER A.A.C. R18-9-E301 (D) (2) (j).
4. THE FULL LENGTH OF SEWER MAIN SHALL BE TESTED FOR UNIFORM SLOPE PER A.A.C. R18-9-E301 (D) (2) (k).
5. ALL MANHOLES SHALL BE DESIGNED PER A.A.C. R18-9-E301 (D) (3) (c) AND THE PCRWRD.
6. ALL MANHOLES SHALL BE LEAK TESTED PER A.A.C. R18-9-E301 (D) (3) (e).

EXHIBIT B
3597-15-PCRWRD
ADDENDUM 1



2015-097

DESIGNER	N. L. LINGHLE	DATE	5/7/16
DRAWN	S. ZAVALA	SCALE	AS SHOWN
CHECKED	M. DAVIS	DATE	5/16/16

PSOMAS
Professional Services of the Southwest
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

INA ROAD
SEWER MODIFICATION PLANS
GENERAL NOTES

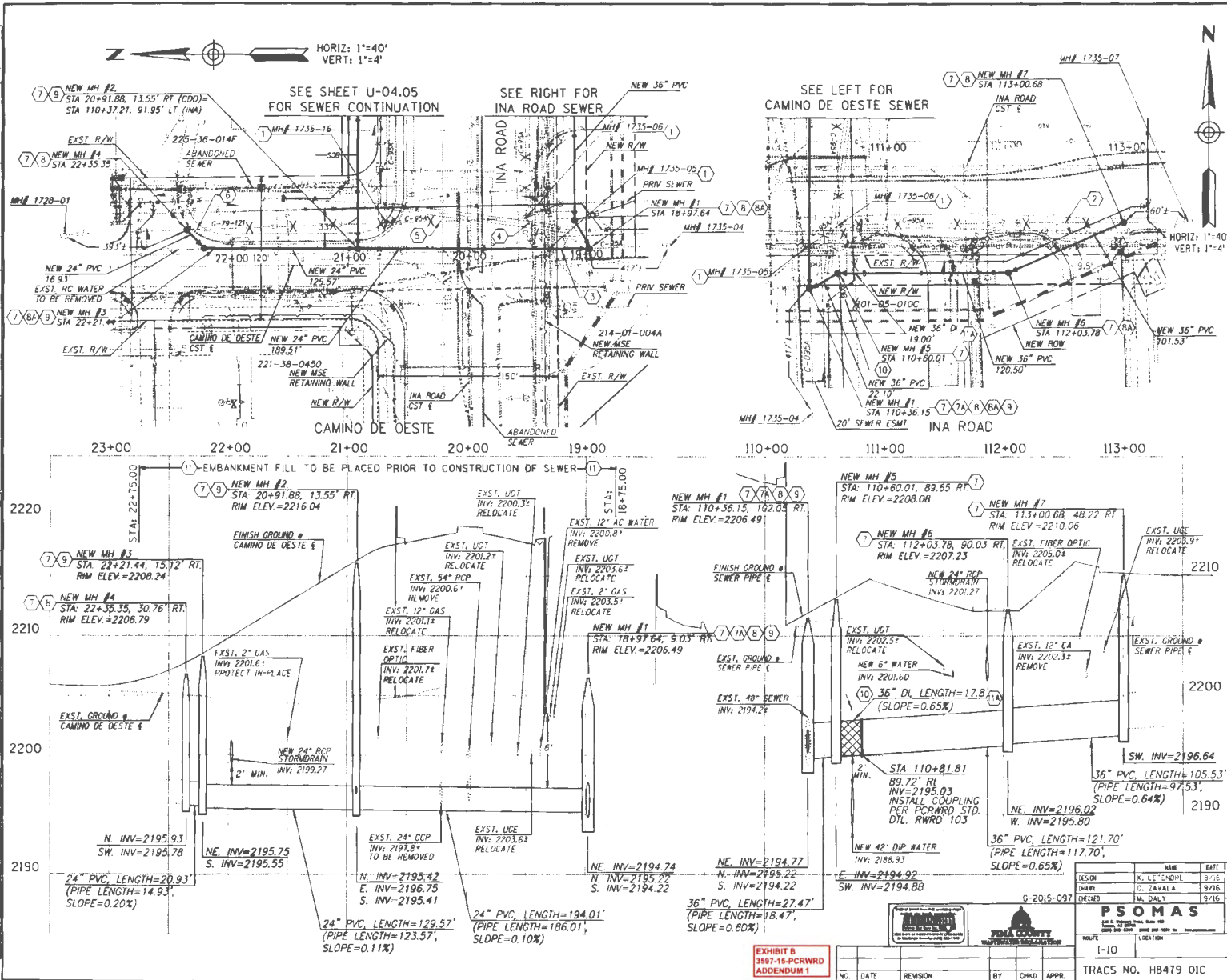
STAGE V
Review

NO. 104
CONC. P.L. 104
E. REV. 01/15

DATE: 01/15/15

ROUTE	I-10	LOCATION	INA ROAD T.I.
TRACS NO.	H8479 DIC		010-DI216-5

FED. PROJ. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	9	010-D(216)S	833	843	
010 PM 248					



- KEYNOTES:**
- EXISTING MANHOLES #1735-05, #1735-06, AND #1735-16 OF C-95A TO BE REMOVED. CONTRACTOR SHALL REMOVE THE FRAME AND COVER. THE SALVAGED FRAME AND COVER SHALL BE DELIVERED TO PCWRWD AT THE LOCATION SPECIFIED BY THE INSPECTOR. THE MANHOLES WILL BE COMPLETELY DEMOLISHED. THE EXCAVATION FILLED WITH SELECT MATERIAL AND COMPACTED IN ACCORDANCE WITH THE STANDARDS SET BY THE AGENCY CONTROLLING THE RIGHT-OF-WAY. IN ALL CASES A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY, IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA TEST METHOD 225, SHALL BE ACHIEVED. THE CONTRACTOR SHALL DISPOSE OF ALL MANHOLE DEMOLITION MATERIAL OFF-SITE AT A LANDFILL OR OTHER APPROVED LOCATION.
 - 238 LF OF EXISTING 36" PUBLIC SEWER FROM NEW MANHOLE #7 TO MANHOLE #1735-06 OF C-95A IS TO BE REMOVED.
 - 35 LF OF EXISTING 48" PUBLIC SEWER FROM NEW MANHOLE #1 TO MANHOLE #1735-05 OF C-95A IS TO BE REMOVED.
 - 33 LF OF EXISTING 48" PUBLIC SEWER FROM MANHOLE #1735-05 TO MANHOLE #1735-06 OF C-95A IS TO BE REMOVED.
 - 117 LF OF EXISTING 30" PUBLIC SEWER FROM MANHOLE #1735-06 TO MANHOLE #1735-16 OF C-95A IS TO BE REMOVED.
 - 168 LF OF EXISTING 24" PUBLIC SEWER FROM MANHOLE #1735-16 TO NEW MANHOLE #4 OF G-79-121 IS TO BE REMOVED.
 - NEW SEWER MANHOLE PER DETAIL 'A', SHEET U-04-14. PREPARE AND COAT MANHOLE WITH INTERIOR CORROSION PROTECTION, PER SPECIAL PROVISIONS.
 - NEW SEWER MANHOLE PER DETAIL 'B', SHEET U-04-14. PREPARE AND COAT MANHOLE WITH INTERIOR CORROSION PROTECTION, PER SPECIAL PROVISIONS.
 - NEW SEWER MANHOLE OVER EXISTING SEWER LINE PER PCWRWD STD. DTL. RWRD 303.
 - NEW SEWER MANHOLE SHALL HAVE WATER TIGHT FRAME AND COVER PER PCWRWD STD. DTL. RWRD 214.
 - SEWER MANHOLE JOINTS SHALL BE REINFORCED PER PCWRWD STD. DTL. RWRD 209.
 - PRIVATE CLEANOUT TO BE INSTALLED FOR EXISTING HCS OR BCS PER PCWRWD STD. DTL. RWRD 401 AND SHALL BE REROUTED TO NEW SEWER MANHOLE PER PCWRWD STD. DTL. RWRD 402. CONTRACTOR TO VERIFY CONNECTION AT TAP.
 - INSTALL DI PIPE SECTION PER PCWRWD STD. DTL. RWRD 103 & 108 PER SPECIAL PROVISIONS.

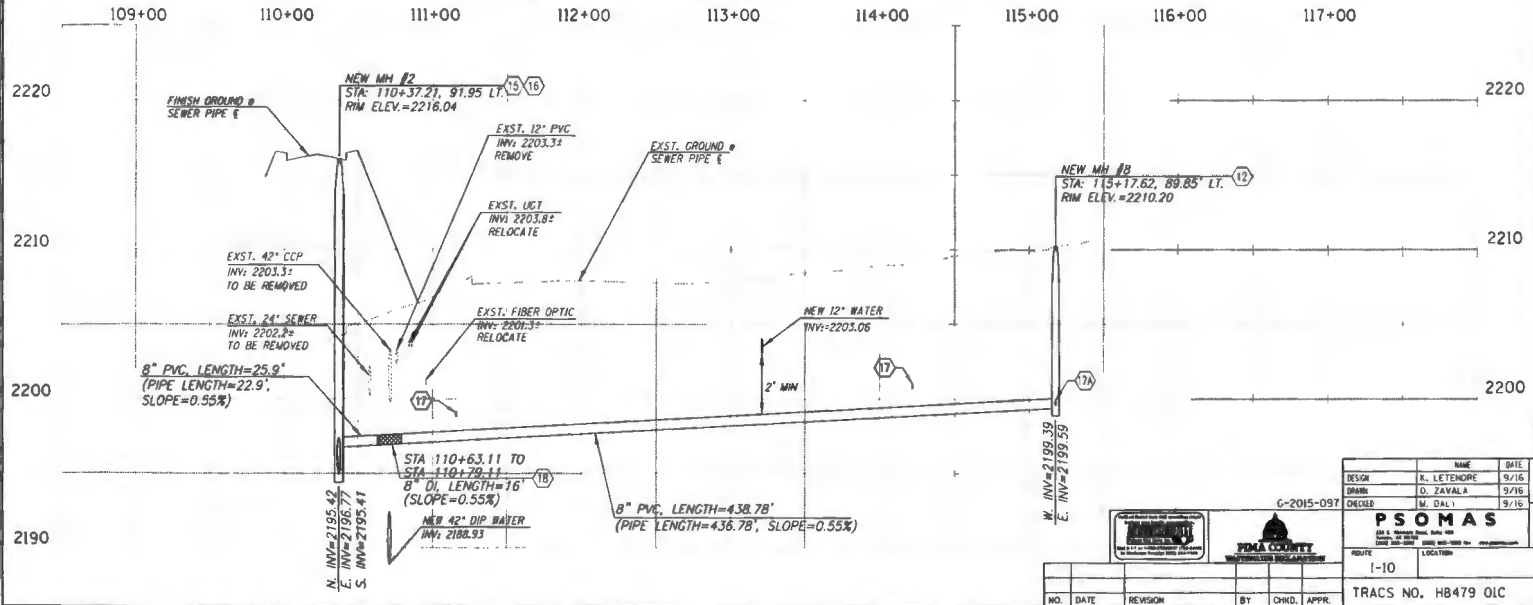
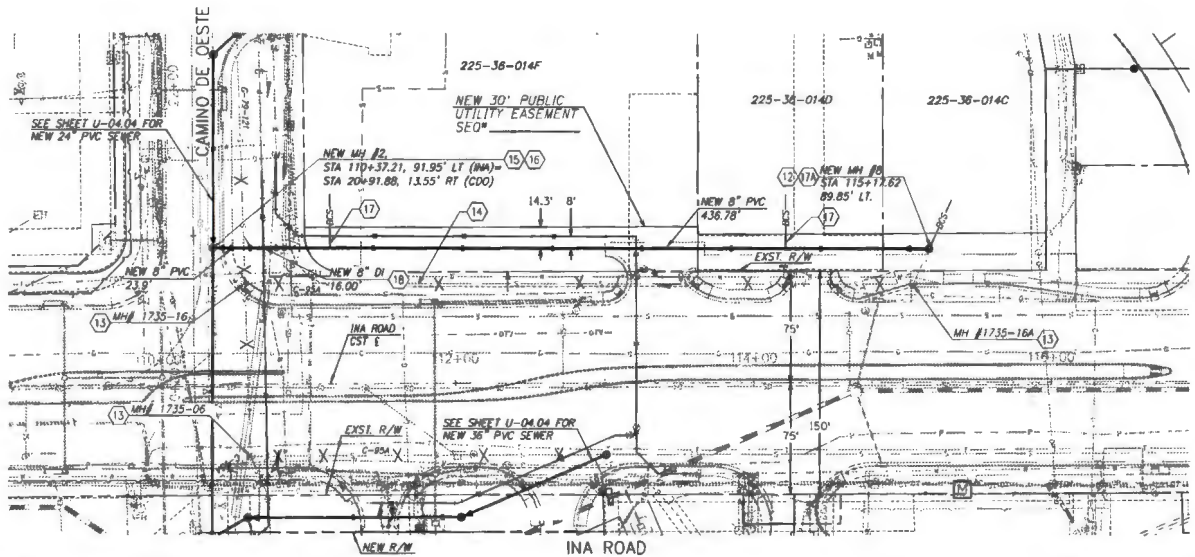
DESIGN	K. LE'ENHOE	DATE	9/16
DRAWN	D. ZAVALA	DATE	9/16
CHECKED	M. DALRY	DATE	9/16

PSONAS
 PIMA COUNTY
 ROADWAY DESIGN SERVICES

PROJECT: INA ROAD SEWER MODIFICATION PLANS
 SHEET: I-10 LOCATION: INA ROAD T.I.
 DATE: 9-2015-09

NO.	DATE	REVISION	BY	CHKD.	APPR.

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-DI2161S	834	843	
010 PM 248					



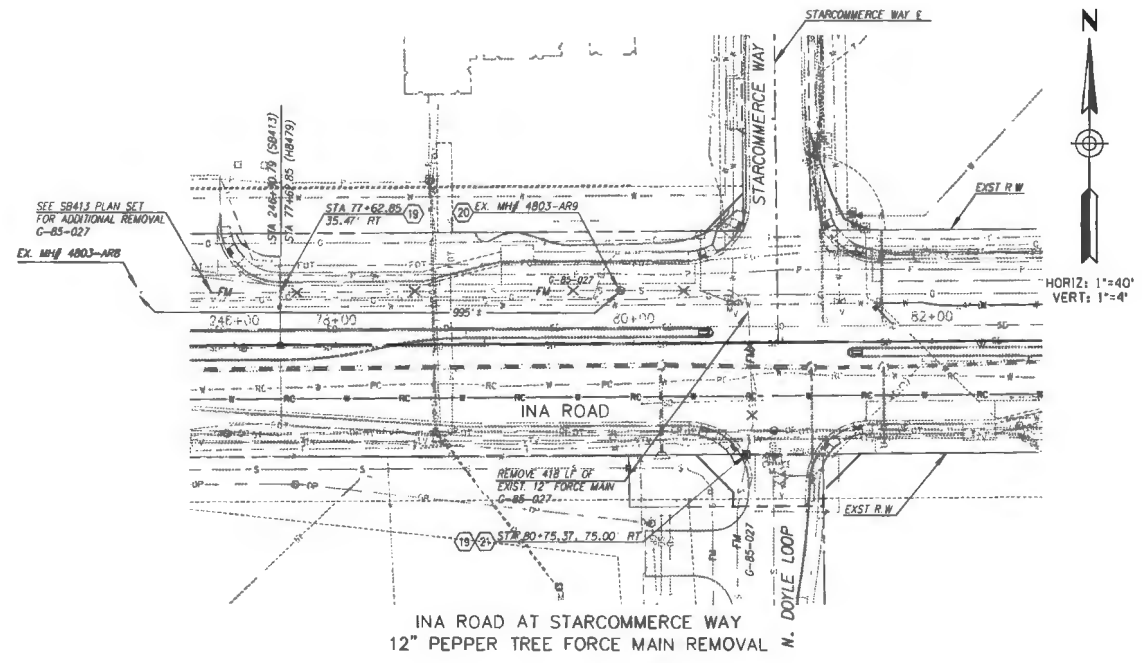
- KEYNOTES:**
12. NEW 4' DIA. SEWER MANHOLE PER PCRWRD STD. DTL. RWRD 205.
 13. EXISTING MANHOLES #1735-06, AND #1735-16 OF C-95A TO BE REMOVED. CONTRACTOR SHALL REMOVE THE FRAME AND COVER. THE SALVAGED FRAME AND COVER SHALL BE DELIVERED TO PCRWRD AT THE LOCATION SPECIFIED BY THE INSPECTOR. THE MANHOLES WILL BE COMPLETELY DEMOLISHED. THE EXCAVATION FILLED WITH SELECT MATERIAL AND COMPACTED IN ACCORDANCE WITH THE STANDARDS SET BY THE AGENCY CONTROLLING THE RIGHT-OF-WAY. IN ALL CASES A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY, IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA TEST METHOD 225, SHALL BE ACHIEVED. THE CONTRACTOR SHALL DISPOSE OF ALL MANHOLE DEMOLITION MATERIAL OFF-SITE AT A LANDFILL OR OTHER APPROVED LOCATION.
 14. 448 LF OF EXISTING 8" PUBLIC SEWER FROM MANHOLE #1735-16 TO MANHOLE #1735-16A OF C-95A IS TO BE REMOVED.
 15. NEW SEWER MANHOLE PER DETAIL 'A', SHEET U-04.14. PREPARE AND COAT MANHOLE WITH APPROVED INTERIOR CORROSION PROTECTION PER SPECIAL PROVISIONS.
 16. SEWER MANHOLE JOINTS SHALL BE REINFORCED. SEE DETAIL A ON SHEET U-04.14.
 17. PRIVATE CLEANOUT TO BE INSTALLED FOR EXISTING HCS OR BCS AND SHALL BE REROUTED TO NEW SEWER MAIN PER PCRWRD STD. DTL. RWRD #01 AND #04. CONTRACTOR TO VERIFY DEPTH OF EXISTING BCS AND CONNECTION AT TAP.
 - 17A. PRIVATE CLEANOUT TO BE INSTALLED FOR EXISTING HCS OR BCS PER PCRWRD STD. DTL. RWRD #01 AND SHALL BE REROUTED TO NEW SEWER MAIN PER PCRWRD STD. DTL. RWRD #02. CONTRACTOR TO VERIFY DEPTH OF EXISTING BCS AND CONNECTION AT TAP.
 18. INSTALL DI PIPE SECTION PER PCRWRD STD. DTL. RWRD 103 & 108 AND PER SPECIAL PROVISIONS.

EXHIBIT B
3507-15-PCRWRD
ADDENDUM 1

DESIGN	R. LETENDRE	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V NOT FOR CONSTRUCTION OR RECORDING
DRAWN	D. ZAVALA	9/16		
CHECKED	12. DALY	9/16		
PSOMAS			INA ROAD SEWER MODIFICATION PLANS STA 109+00 TO 117+00	DWS NO U-04.05
PROJECT	I-10	LOCATION	INA ROAD T.I.	
TRACS NO.	H8479 OIC		010-DI2161S	OF

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	PROJECT DRAWING
9	ARIZ.	010-D12161S		843	
010 PM 248					

- KEYNOTES:** ○
- 418 LF OF EXISTING 12" PEPPER TREE FORCE MAIN TO BE REMOVED.
 - EXISTING MANHOLE #4803-AR9 OF G-85-072 TO BE REMOVED. CONTRACTOR SHALL REMOVE THE FRAME AND COVER. THE SALVAGED FRAME AND COVER SHALL BE DELIVERED TO PCRWRD AT THE LOCATION SPECIFIED BY THE INSPECTOR. THE MANHOLES WILL BE COMPLETELY DEMOLISHED. THE EXCAVATION FILLED WITH SELECT MATERIAL AND COMPACTED IN ACCORDANCE WITH THE STANDARDS SET BY THE AGENCY CONTROLLING THE RIGHT-OF-WAY. IN ALL CASES A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY, IN ACCORDANCE WITH THE PROVISIONS OF THE ARIZONA TEST METHOD 225, SHALL BE ACHIEVED. THE CONTRACTOR SHALL DISPOSE OF ALL MANHOLE DEMOLITION MATERIAL OFF-SITE AT A LANDFILL OR OTHER APPROVED LOCATION.
 - CAP EXISTING FORCEMAIN AT R/W AND INSTALL MONUMENT PER PCRWRD STD. DTL. RWRD 503.



INA ROAD AT STARCOMMERCE WAY
12" PEPPER TREE FORCE MAIN REMOVAL

EXHIBIT B
3887-15-PCRWRD
ADDENDUM 1

DESIGN	C. REYNAE	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V NOT FOR CONSTRUCTION OR RECORDING	
DRAWN	D. ZAVALA	9/16			
CHECKED	M. DALLA	9/16			
PSOMAS			INA ROAD SEWER MODIFICATION PLANS		
ROUTE	I-10		LOCATION	INA ROAD T.I.	
TRACS NO.	H8479 OIC			010-D12161S	
NO.	DATE	REVISION	BY	CHKD.	APPR.

PROJECT NO.	DATE	BY	APPR
010-121615	05/11/16	AS	843
010 PM 248			

KEYNOTES
 26. 24 LF OF EXISTING 24" VCP PUBLIC SEWER TO BE REMOVED COMPLETELY. SEWER SHALL NOT BE ABANDONED IN PLACE.

FLOW MANAGEMENT GENERAL GUIDELINES, DESCRIPTION, AND NOTES:

- THE CONTRACTOR SHALL PROVIDE THE FINAL FLOW MANAGEMENT PLAN FOR THE PROJECT FOR REVIEW AND APPROVAL BY THE RWSD FIELD ENGINEERING MANAGER. THE WASTEWATER FLOW MANAGEMENT GUIDELINES PROVIDED HEREIN SHALL NOT SERVE AS THE APPROVED FLOW MANAGEMENT PLAN.
- FLOW MANAGEMENT GUIDELINES TO ACCOMMODATE THE REPLACEMENT OF THE 24" VCP (G-79-121) BETWEEN EXISTING MANHOLES #1728-02 AND #1728-01.
 - PUMP FROM 24" MAIN AT MANHOLE 1728-02, DISCHARGE INTO MANHOLE 1728-01.
 - PUMP SUCTION SHALL BE TAKEN FROM FLOW THROUGH PLUGS PLACED INTO THE EXISTING 24-INCH GRAVITY SEWER MAINS. FLOW THROUGH PLUGS WITH A MINIMUM THROUGH LET SIZE OF 24 INCHES SHALL BE PLACED INTO THE 24-INCH FLOW THROUGH PLUGS. PLUGS WILL BE RESTRICTED IN TRACE USING 400 KICKERS. SAFETY CABLES SHALL BE ATTACHED TO EACH PLUG AND EACH KICKER AND HELD IN PLACE WITH 7" POSTS. ALL PLUGS WILL CLEARLY AND LEGIBLY INDICATE THE NAME OF THE RESPONSIBLE CONTRACTOR, INCLUDING ADDRESS AND PHONE NUMBER USING DEPRESSED LETTERING ON METALLIC PLACARD. TWO PLUGS SHALL BE INSTALLED AT MANHOLE 1728-02, REQUIRING THAT THE FLOW THROUGH PLUGS BE COVERED TOGETHER AT A HEIGHT OF NO MORE THAN 2' ABOVE THE MANHOLE FLOOR.
- FOR THE DURATION OF ALL PUMPING, THE CONTRACTOR WILL PROVIDE CONTINUOUS FLOW WATER BY TRAINED AND QUALIFIED PUMP PERSONNEL WHO SHALL MAINTAIN PUMPS, FUEL SOURCE, HOSE LINES, FLOW THROUGH PLUGS, FITTINGS AND APPURTENANCES, SURCHARGING AT IMMEDIATE UPSTREAM MANHOLES, AND ALL EQUIPMENT ASSOCIATED WITH THE BYPASS PUMPING OPERATION.
- A 1/2" HIGH PL. WOOD COVER, PER PW10 306, SHALL BE USED INSIDE THE MANHOLES TO COVER THE OPEN PIPE WHILE BEING STACKED.
- THE PUMPS AND BACK UP PUMPS SHALL BE CAPABLE OF PUMPING THE MAXIMUM WEATHER FLOW (111 LPM) AT A TOTAL DYNAMIC HEAD OF 114 FEET. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT THE MINIMUM SUCTION HEAD (NPSHR) IS SATISFIED.
- SUFFICIENT FUEL SHALL BE STORED ON-SITE TO ACCOMMODATE 24 HOURS CONTINUOUS PUMPING AT FULL DUTY CYCLE. FUEL SHALL BE STORED USING DOUBLE WALL UL200S CONTAINERS, INCLUDING SPILL CONTAINMENT. FUEL STORAGE SHALL BE OSHA SAFE. FUEL CONTAINMENT SHALL BE PROTECTED FROM RAINFALL RESULTING FROM STORM EVENTS.
- SUCTION LINES MAY BE INSTALLED PER CONTRACTOR'S DISCRETION FOR CUMULATION TO THE FLOW THROUGH PLUGS (VENTED) ABOVE PUMPS DISCHARGE TO HYDRA IN GENERAL CONFORMANCE WITH APPROVED FLOW MANAGEMENT PLAN. PUMPS AND SUCTION PIPING SHALL BE PROTECTED USING CONCRETE BARRIERS OR OTHER APPROVED CONTROL SECURED BY THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY FLOWS INTO THE EXISTING 24" SEWER (G-79-121) OF CAMINO DE OESTE PRIOR TO SUBMITTING THE FINAL FLOW MANAGEMENT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.
- ALL PIPING AND PUMP CONNECTIONS SHALL BE PRESSURE TESTED USING FRESH WATER TO 50 POUNDS PER SQUARE INCH PRIOR TO CONNECTION TO THE FLOW THROUGH PLUGS AND TO OPERATION OF THE PUMPS.
- ALL WORK PERFORMED IN THIS SCOPE SHALL BE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. ALL EXCAVATION WITHIN 2 FT. OF A LIVE SEWER SHALL BE COMPLETED BY HAND.
- AT LEAST 5 GALLONS OF 12.5% LIQUID SODIUM HYDROCHLORIDE WILL BE ON-SITE.
- RWSD SHALL NOT BE HELD LIABLE OR RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THE FMP. ITEMS NOT MEETING PIMA COUNTY STANDARDS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE DEPARTMENT.

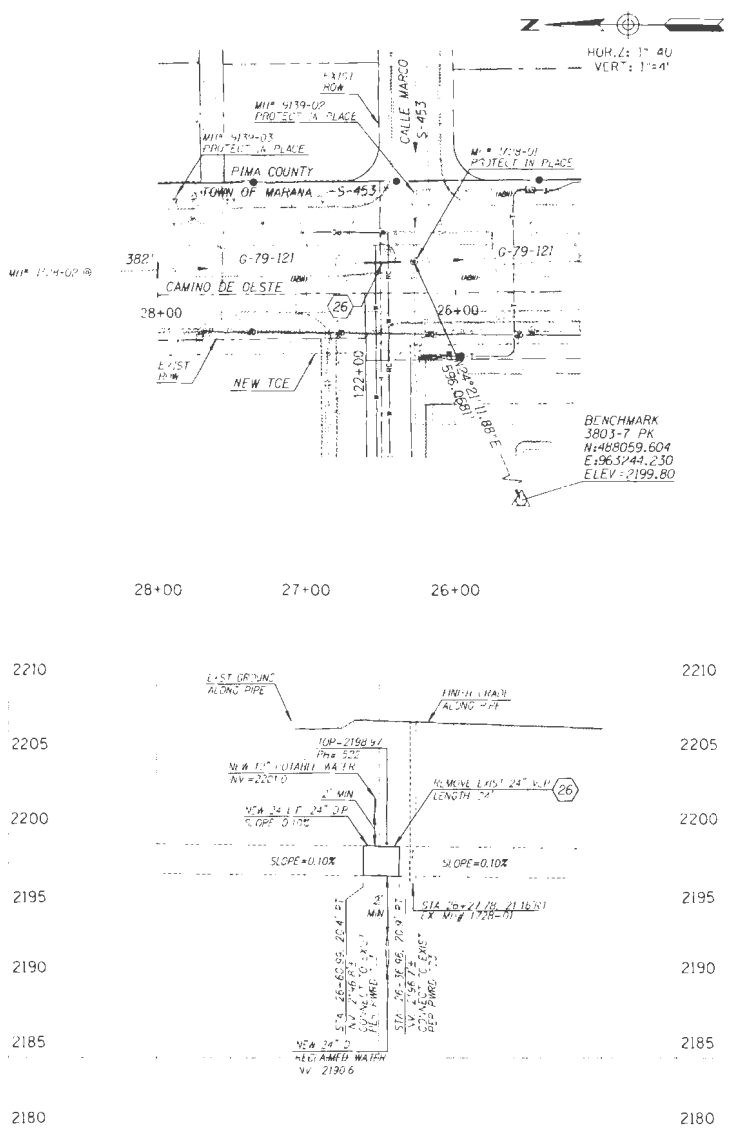


EXHIBIT B
 3597-15-PCRWRD
 ADDENDUM 1

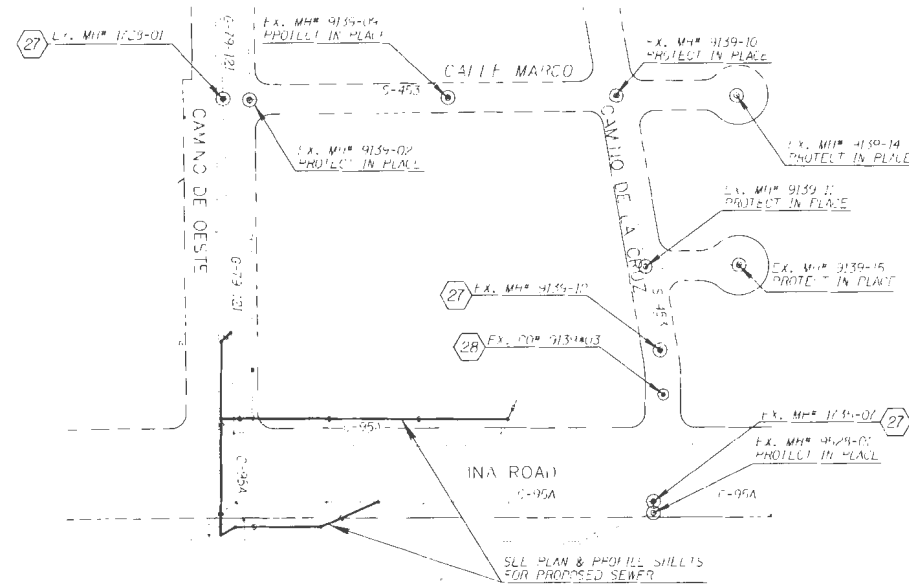
DESIGN	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION	REV	REVISION
CHECKED	DATE	ROADWAY DESIGN SERVICES	DATE	DESCRIPTION
		INA ROAD	STAGE V Review NOT FOR CONSTRUCTION OR REFERENCE	
		SEWER MODIFICATION PLANS	DATE: 05/11/16 DRAWN BY: AS	
G-2015-097 ROUTE: I-10 LOCATION: INA ROAD T.I.		TRACS. NO. H8479 OIC	010-D121615	OF

PROJECT NO.	010-D1216J5	SHEET NO.	837	TOTAL SHEETS	845
DATE	010 PM 248				

KEYNOTES:

27. ADJUST RIM AND COVER ELEVATION PER POWRD STD. DTL. RWRD 304 OR 305 (WHICHEVER IS APPLICABLE).

28. ADJUST RIM AND COVER ELEVATION PER POWRD STD. DTL. 307.



INA ROAD						
SEWER MANHOLE FRAME AND COVER SCHEDULE						
EXISTING MANHOLE #	MANHOLE STATUS	STATION, OFFSET (INA RD CST LINE)	EXISTING RIM ELEV.	PROPOSED RIM ELEV.	RIM ADJUSTMENT	
MH #1728-01	ADJUST FRAME & COVER	117+60.43, 48.14' RT	2212.5x	2212.47	-0.03	
MH #9139-12	ADJUST FRAME & COVER	117+71.49, 204.19' LT	2212.6x	2212.58	-0.02	
CO #9139-03	ADJUST FRAME & COVER	117+77.65, 130.16' LT	2212.1x	2212.38	0.08	

CAMINO DE OESTE						
SEWER MANHOLE FRAME AND COVER SCHEDULE						
EXISTING MANHOLE #	MANHOLE STATUS	STATION, OFFSET (C.D.O. CST LINE)	EXISTING RIM ELEV.	PROPOSED RIM ELEV.	RIM ADJUSTMENT	
MH #1728-01	ADJUST FRAME & COVER	26+27.38, 21.15' RT	2202.1x	22-2.17	0.07	

EXHIBIT B
0987-15-PCRWRD
ADDENDUM 1

0-2015-097

PSOMAS
PIMA COUNTY
WASTEWATER REGULATION

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

INA ROAD
SEWER MODIFICATION PLANS
RESET FRAME AND COVER

ROUTE: I-10 LOCATION: INA ROAD I.I.

TRACS NO. H8479 OIC

010-D1216J5

DATE: 01/15/16

DESIGNER: M. S. S.

CHECKER: T. S. S.

SCALE: 1"=100'

DATE: 01/15/16

SCALE: 1"=100'

DATE: 01/15/16

SCALE: 1"=100'

DATE: _____

LOCATION: _____

REVISIONS: _____

UNSHED PLANS: _____

CURVE NO.: _____

DATE: _____

LOCATION: _____

REVISIONS: _____

UNSHED PLANS: _____

SHEET NO.: _____

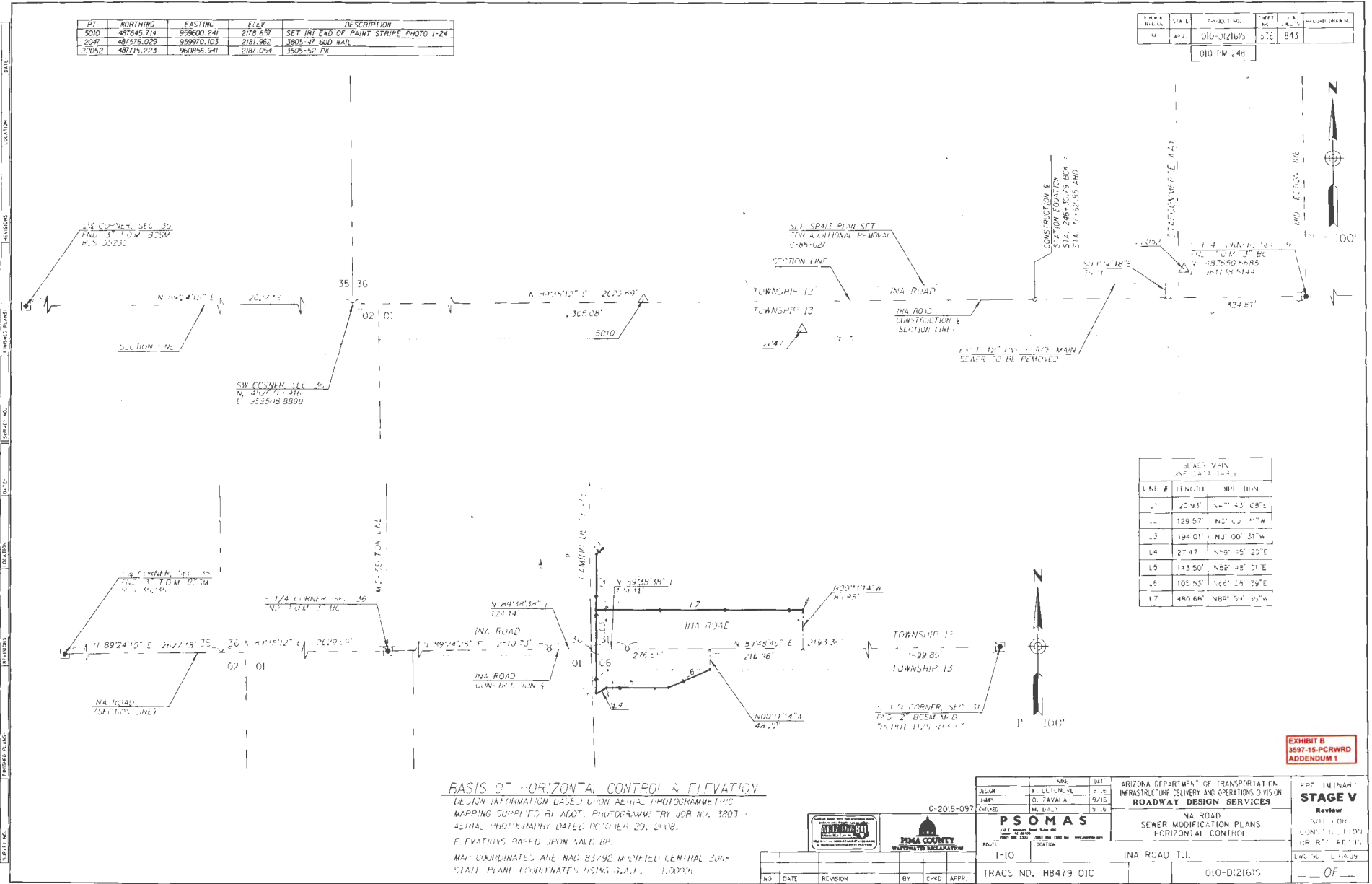
NO	DATE	REVISION	BY	CHKD	APPR

STAGE V
Review

PT	NORTHING	EASTING	ELEV	DESCRIPTION
5010	487645.714	959600.241	2178.657	SET (AI) END OF PAINT STRIPE PHOTO 1-24
2047	487576.029	959970.103	2181.962	3805-47 600 NAIL
2052	48775.223	960856.947	2187.054	3805-52 PK

PROJECT NO.	SHEET NO.	TOTAL SHEETS
010-D121615	572	843

010 PM 44



LINE #	LINE (IN)	LINE (IN)
L1	20.91'	N 47° 43' 08\"/>
L2	129.57'	N 0° 00' 11\"/>
L3	194.01'	N 0° 00' 31\"/>
L4	27.47'	N 89° 45' 20\"/>
L5	143.50'	N 82° 48' 01\"/>
L6	105.53'	N 62° 28' 39\"/>
L7	480.64'	N 88° 50' 35\"/>

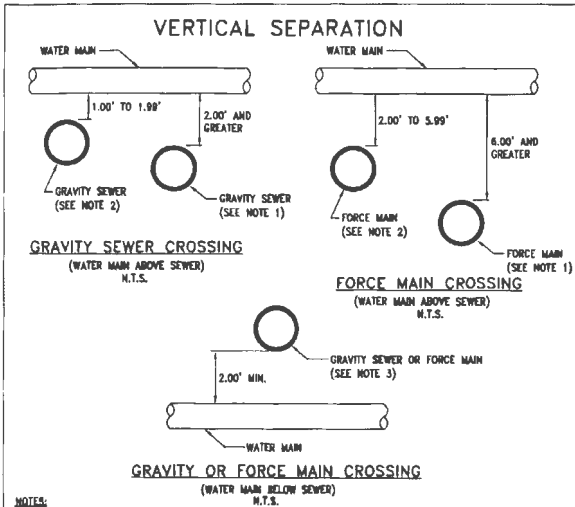
BASIS OF HORIZONTAL CONTROL & ELEVATION

DESIGN INFORMATION BASED UPON AZHRA PHOTOGRAMMETRIC MAPPING SUPPLIED BY ADOT. PHOTOGRAMMETRY JOB NO. 3803 - AZHRA PHOTOGRAMMETRY DATED OCTOBER 29, 2016. ELEVATIONS BASED UPON NAVD 83. MAP COORDINATES ARE NAVD 83/92 MYPIFIED CENTRAL ZONE STATE PLANE COORDINATES USING G.A.S. 1,000,000.

EXHIBIT B
3597-15-PCRWRD
ADDENDUM 1

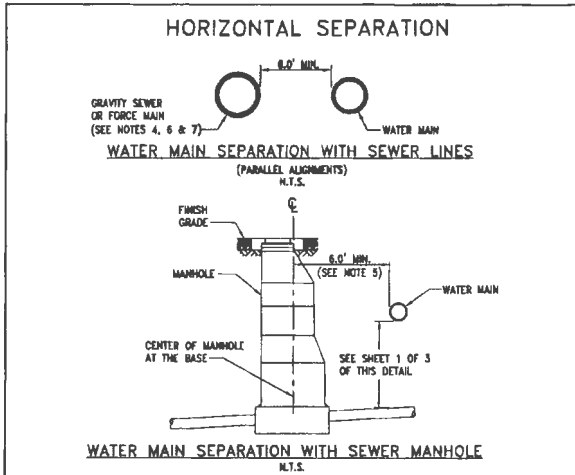
DESIGN	R. LUTHEMILLER	DATE	05-2015-097	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PROJECT NO. 010-D121615
DRAWN	D. TAVARA	SCALE	AS SHOWN	PROJECT NAME INA ROAD SEWER MODIFICATION PLANS HORIZONTAL CONTROL	SHEET NO. 572
CHECKED	M. DAVIS	DATE		PROJECT LOCATION INA ROAD T.J.	TOTAL SHEETS 843
NO.	DATE	REVISION	BY	CHKD	APPR.
TRACS NO. H8479 OIC			010-D121615		

P.A.B. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD NUMBER
9	AZ	010-D121615	839	843	
010 FM 248					



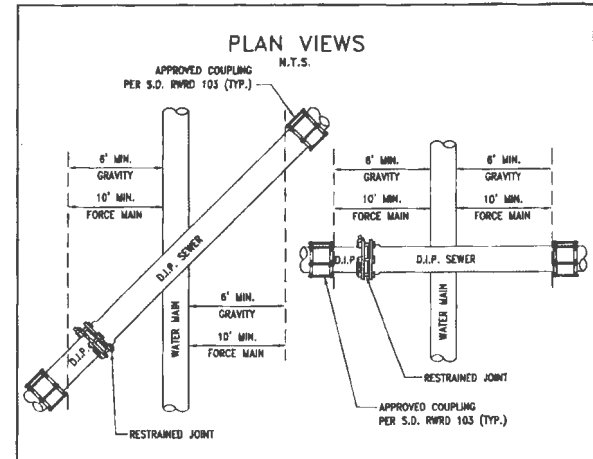
- NOTES:**
- WHERE A WATER MAIN CROSSES ABOVE A GRAVITY SEWER WITH 2' OR GREATER VERTICAL CLEARANCE (OUTSIDE SURFACE TO OUTSIDE SURFACE), NO EXTRA PROTECTION IS REQUIRED. WHERE A WATER MAIN CROSSES ABOVE A FORCE MAIN WITH 6' OR GREATER VERTICAL CLEARANCE, NO EXTRA PROTECTION IS REQUIRED.
 - WHERE A WATER MAIN MUST CROSS ABOVE A GRAVITY SEWER WITH LESS THAN 2' OF CLEARANCE OR ABOVE A FORCE MAIN WITH LESS THAN 6' OF CLEARANCE, CONSTRUCT OR REPLACE THE SEWER LINE WITH DUCTILE IRON PIPE (D.I.P.) OR APPROVED EQUAL. IN NO CASE SHALL THE WATER MAIN HAVE LESS THAN 1' OF CLEARANCE ABOVE A GRAVITY SEWER OR 2' OF CLEARANCE ABOVE A FORCE MAIN. IF THE JOINT IS LOCATED LESS THAN 6' FROM THE OUTSIDE SURFACE OF THE WATER MAIN, THEN A RESTRAINED JOINT OR APPROVED EQUAL SHALL BE USED. REFER TO SHEET 3 OF 3.
 - WHERE A WATER MAIN CROSSES BELOW EITHER A GRAVITY SEWER OR A FORCE MAIN, CONSTRUCT OR REPLACE THE SEWER LINE WITH D.I.P. OR APPROVED EQUAL FOLLOWING THE GUIDELINES GIVEN IN NOTE NO. 2. IN NO CASE SHALL THE WATER MAIN BE LESS THAN 2" BELOW EITHER A GRAVITY SEWER OR FORCE MAIN.

ISSUED	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER		RWRD 108
REVISION	CROSSING DETAILS		
10/16			SHEET 1 OF 3



- NOTES (CONTINUED):**
- THE MINIMUM HORIZONTAL CLEARANCE WITHOUT EXTRA PROTECTION BETWEEN A WATER MAIN AND A FORCE MAIN OR GRAVITY SEWER LINE SHALL BE 6' OUTSIDE SURFACE TO OUTSIDE SURFACE.
 - THE MINIMUM HORIZONTAL CLEARANCE BETWEEN A WATER MAIN AND A SEWER MANHOLE SHALL BE 6' FROM THE OUTSIDE SURFACE OF THE WATER MAIN TO THE CENTER OF MANHOLE.
 - WHERE A 6' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED WITH A GRAVITY SEWER, CONSTRUCT OR REPLACE THE SEWER LINE WITH D.I.P. OR APPROVED EQUAL FOLLOWING THE GUIDELINES GIVEN IN NOTE NO. 2. IN NO CASE SHALL A GRAVITY SEWER LINE BE LOCATED LESS THAN 2' HORIZONTALLY FROM A WATER MAIN.
 - IN NO CASE SHALL A FORCE MAIN BE LOCATED LESS THAN 6' HORIZONTALLY FROM A WATER MAIN.
 - THE AMERICAN NATIONAL STANDARD FOR THE THICKNESS DESIGN OF D.I.P. (ANSI/AWWA C150/A21.50) SHALL BE USED TO DETERMINE THE REQUIRED PRESSURE CLASS EXCEPT FOR D.I.P. WITH A DIAMETER OF 3" THRU 24". A MINIMUM PRESSURE CLASS OF 350 IS REQUIRED. FOR D.I.P. WITH A DIAMETER GREATER THAN 24", A MINIMUM PRESSURE CLASS OF 200 IS REQUIRED.

ISSUED	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER		RWRD 108
REVISION	CROSSING DETAILS		
12/12			SHEET 2 OF 3



- NOTES (CONTINUED):**
- WHERE THE SEWER LINE IS A GRAVITY SEWER, THE D.I.P. INSTALLATION OR REPLACEMENT SHALL EXTEND A MINIMUM OF 6' BEYOND EACH SIDE OF THE WATER MAIN, MEASURED HORIZONTALLY FROM AND PERPENDICULAR TO THE WATER MAIN.
 - WHERE THE SEWER LINE IS A FORCE MAIN, THE D.I.P. INSTALLATION OR REPLACEMENT SHALL EXTEND A MINIMUM OF 10' BEYOND EACH SIDE OF THE WATER MAIN, MEASURED HORIZONTALLY FROM AND PERPENDICULAR TO THE WATER MAIN.
 - WHEN UNUSUAL CONDITIONS SUCH AS, BUT NOT LIMITED TO, HIGHWAY OR BRIDGE CROSSINGS PREVENT THE WATER AND SEWER LINE SEPARATIONS REQUIRED BY THIS DETAIL FROM BEING MET, PCRWRD WILL REVIEW AND MAY APPROVE (SUBJECT TO APPROVAL BY THE ENVIRONMENTAL REGULATORY AGENCY HAVING JURISDICTION), REQUESTS FOR AUTHORIZATION TO USE ALTERNATE CONSTRUCTION TECHNIQUES, MATERIALS AND JOINTS ON A CASE-BY-CASE BASIS.
 - ALL DUCTILE IRON PIPE SHALL BE INTERNALLY LINED AND EXTERNALLY WRAPPED PER SUBSECTION 3.2.2(D).

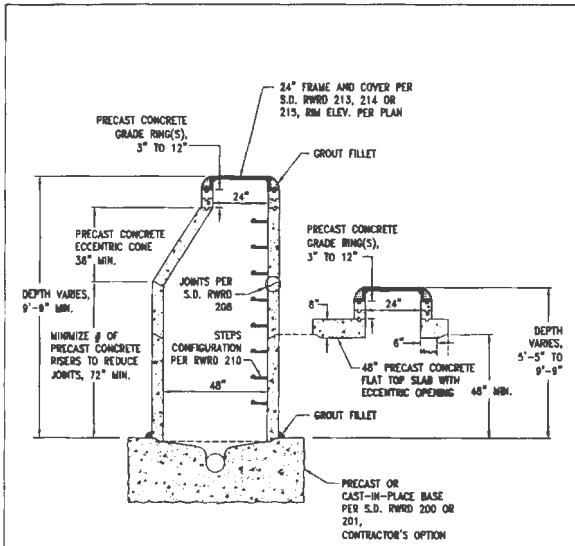
ISSUED	STANDARD DETAIL		DETAIL NO.
8/92	SEWER/WATER		RWRD 108
REVISION	CROSSING DETAILS		
12/12			SHEET 3 OF 3

EXHIBIT B
3507-15-PCRWRD
ADDENDUM 1

DESIGN	K. LETENOFF	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V NOT FOR CONSTRUCTION OR RECORDING	
DRAWN	D. ZAVALA	3/16			
CHECKED	M. DALY	3/16			
			INA ROAD SEWER MODIFICATION PLANS PCRWRD STANDARD DETAILS		
ROUTE	I-10		LOCATION	INA ROAD T.J.	
NO.	DATE	REVISION	BY	CHKD.	APPR.
TRACS NO. H8479 01C			010-D121615		

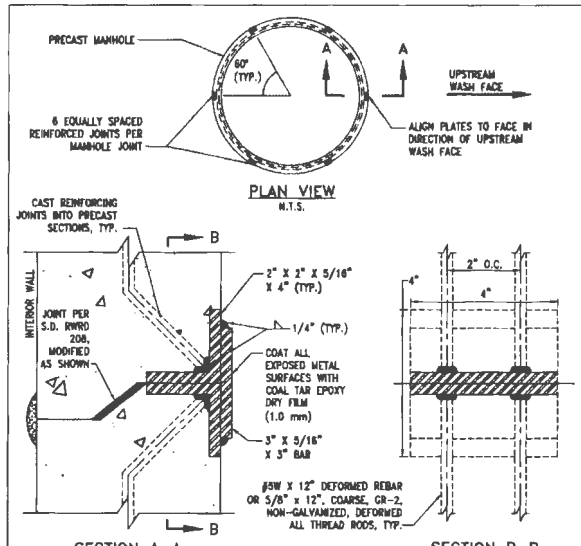
DATE: LOCATION: REVISIONS: SURVEY NO.: FINISHED PLANS: SHEET NO.: DATE: LOCATION: REVISIONS: SURVEY NO.: FINISHED PLANS: SHEET NO.:

NO.	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	010-D121615	010 FM 248	840	843	



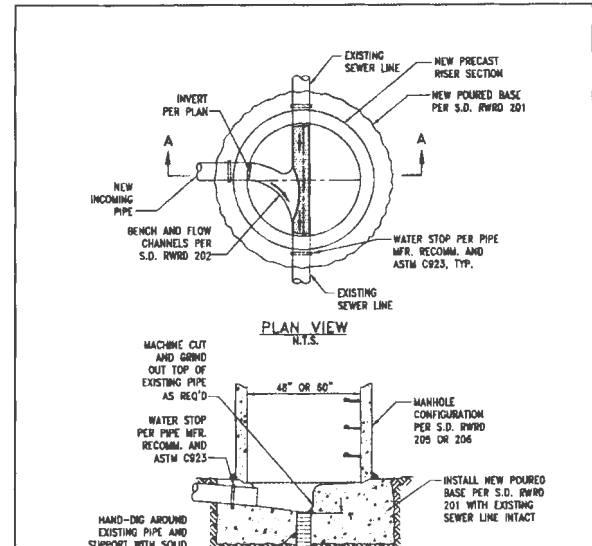
- NOTES:**
1. PRECAST CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM C478 AND AASHTO M199.
 2. FOR 4' DIAMETER MANHOLE DEPTHS LESS THAN 5'-5" (SHALLOW MANHOLES), SEE S.D. RWRD 207; TYPE L.
 3. SEE SUBSECTIONS 3.3.2(F) AND 3.3.3 FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL	DETAIL NO.
5/02	4' DIAMETER MANHOLE CONFIGURATIONS	RWRD 205
REVISION:		
10/16		SHEET 1 OF 1



- NOTES:**
1. THIS SPECIAL STANDARD DETAIL MAY BE USED BY THE CONTRACTOR IF APPROVED IN THE PLANS OR IN WRITING BY THE FIELD ENGINEER, AND IS TYPICALLY FOR USE WITH MANHOLES LOCATED IN WASH CROSSINGS.
 2. THIS DETAIL APPLIES TO 4' AND 5' DIAMETER MANHOLES WITH DEPTHS OF 12' OR GREATER (RIM TO INVERT) AND 3 OR LESS PRECAST SECTIONS. ALL OTHER CASES, SEE PLANS FOR MODIFIED REINFORCED MANHOLE JOINTS.
 3. FIELD WELD THE REINFORCED JOINTS AS SHOWN AND IMMEDIATELY QUENCH WITH AN APPROVED OIL QUENCHING MEDIUM AFTER EACH WELD IS COMPLETED.
 4. SEE SUBSECTION 3.3.3(B)(6) FOR MORE INFORMATION.

ISSUED:	SPECIAL STANDARD DETAIL	DETAIL NO.
8/02 (MMA-220)	REINFORCED MANHOLE JOINTS	RWRD 209
REVISION:		
10/10		SHEET 1 OF 1



- NOTES:**
1. FOUNDATION PER S.D. RWRD 104 TO THE FIRST JOINT BEYOND OPEN TRENCH CONDITIONS MAY BE REQUIRED DEPENDING ON DEPTH OF EXCAVATION AND TYPE OF SOIL.
 2. SEE SUBSECTION 3.3.3(D)(4) FOR MORE INFORMATION.

ISSUED:	STANDARD DETAIL	DETAIL NO.
8/02	NEW MANHOLE OVER EXISTING SEWER LINE	RWRD 303
REVISION:		
12/12		SHEET 1 OF 1

EXHIBIT B
3307-15-PC-RWRD
ADDENDUM 1

DESIGN	A. LETFLORE	9.05
SKETCH	D. ZAVALA	9/16
CHECKED	AK. DAVIS	10.16

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

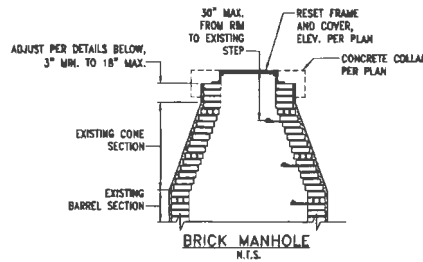
INA ROAD
SEWER MODIFICATION PLANS
PCRWRD STANDARD DETAILS

PRELIMINARY
STAGE V
Number
NOT FOR
CONSTRUCTION
OR RECORDING
DWG NO. 1-04.1
OF

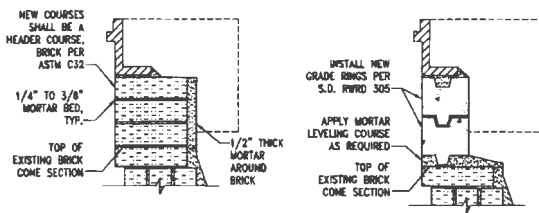
NO.	DATE	REVISION	BY	CHKD	APPR.

TRACS NO.	H8479 OIC	D10-D121615
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P.P.M.A. PROJECT NO.	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	010-D1216/S	010-D1216/S	841	843	
010 PM 248					



BRICK MANHOLE
N.T.S.

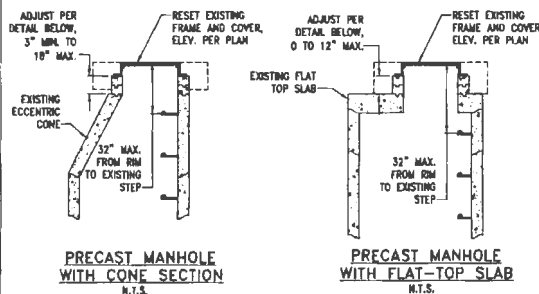


BRICK ADJUSTMENT
N.T.S.

GRADE RING ADJUSTMENT
N.T.S.

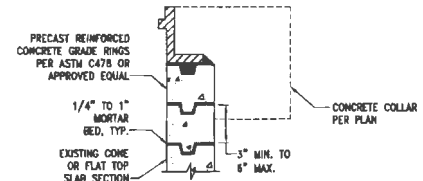
- NOTES:**
1. A SEWER CONSTRUCTION PERMIT FROM PCRWRD IS REQUIRED PRIOR TO REMOVAL OF THE FRAME AND COVER ON EXISTING PUBLIC MANHOLES. GRADE ADJUSTMENT WORK SHALL BE INSPECTED AND APPROVED BY THE FIELD ENGINEER.
 2. RECONSTRUCTION OF THE EXISTING BRICK MANHOLE SHALL BE REQUIRED FOR VIOLATION OF THE DIMENSIONAL RANGES NOTED ABOVE OR THE AGE, CONDITION OR TYPE OF MATERIAL WARRANTING SUCH REPLACEMENT, AS DIRECTED BY THE FIELD ENGINEER.
 3. SEE SUBSECTION 3.3.3(D)(4) FOR MORE INFORMATION.

ISSUED	STANDARD DETAIL	DETAIL NO.
8/08	GRADE ADJUSTMENT FOR EXISTING BRICK MANHOLE	RWRD 304
REVISION		
12/12		



PRECAST MANHOLE WITH CONE SECTION
N.T.S.

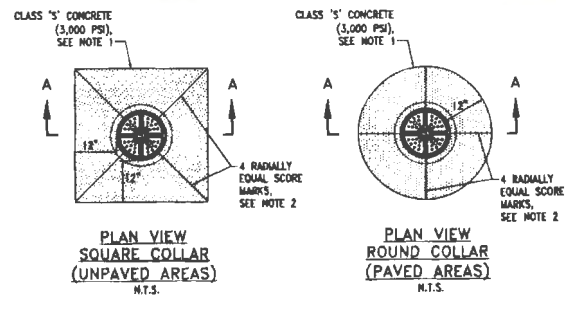
PRECAST MANHOLE WITH FLAT-TOP SLAB
N.T.S.



GRADE RING DETAIL
N.T.S.

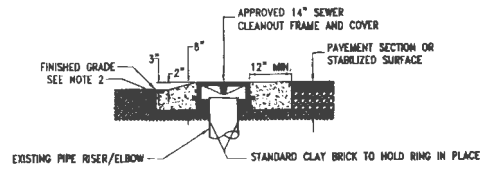
- NOTES:**
1. A SEWER CONSTRUCTION PERMIT FROM PCRWRD IS REQUIRED PRIOR TO REMOVAL OF THE FRAME AND COVER ON EXISTING PUBLIC MANHOLES. GRADE ADJUSTMENT WORK SHALL BE INSPECTED AND APPROVED BY THE FIELD ENGINEER.
 2. RECONSTRUCTION OF THE EXISTING PRECAST MANHOLE SHALL BE REQUIRED FOR VIOLATION OF THE DIMENSIONAL RANGES NOTED ABOVE, AGE OF THE EXISTING MANHOLE, CONDITION OR TYPE OF MATERIAL WARRANTING SUCH REPLACEMENT, AS DIRECTED BY THE FIELD ENGINEER.
 3. SEE SUBSECTION 3.3.3(D)(1) FOR MORE INFORMATION.

ISSUED	STANDARD DETAIL	DETAIL NO.
8/02	GRADE ADJUSTMENT FOR EXISTING PRECAST MANHOLE	RWRD 305
REVISION		
10/15		



PLAN VIEW SQUARE COLLAR (UNPAVED AREAS)
N.T.S.

PLAN VIEW ROUND COLLAR (PAVED AREAS)
N.T.S.



SECTION A-A
N.T.S.

- NOTES:**
1. ALL COLLARS SHALL BE FORMED.
 2. FINISH ALL CONCRETE EDGES AND SCORE MARKS WITH A HAND TROWEL HAVING A 1/4\"/>

ISSUED	STANDARD DETAIL	DETAIL NO.
10/15	GRADE ADJUSTMENT FOR EXISTING CLEANOUTS	RWRD 307
REVISION		

EXHIBIT B
3187-15-PCRWRD
ADDENDUM 1

DESIGN	K. LETENORF	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V Review NOT FOR CONSTRUCTION OR RECORDING
DRAWN	D. ZAVALA	5/16		
CHECKED	W. DAVIS	12/15		

PSOMAS
101 S. Congress Road, Suite 405
Tucson, AZ 85710
2025 701 2428 (2025 202-2025) fax 2025 701 2428

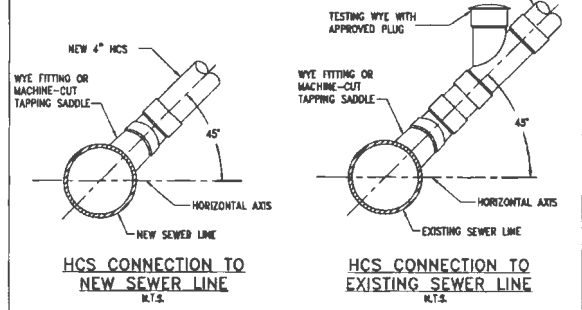
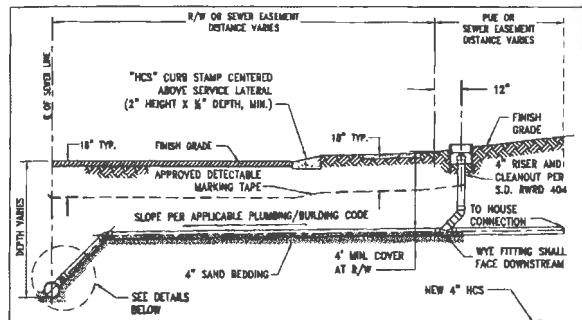
G-2015-097



ROUTE	LOCATION	TRACS NO.	PROJECT NO.
I-10	INA ROAD T.J.	H8479 01C	010-D1216/S

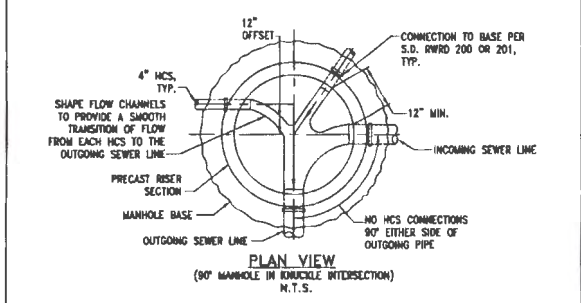
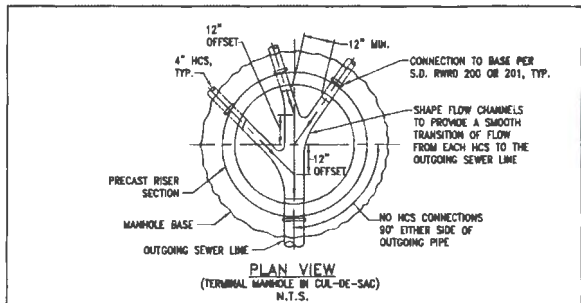
NO.	DATE	REVISION	BY	CHKD.	APPR.

P.C.R.A. REGION	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
01	APRIL	010-D12161S	542	843	
010-PM 248					



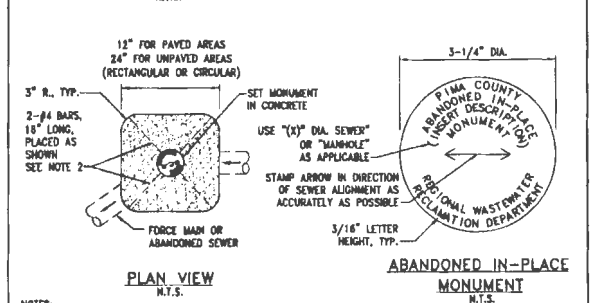
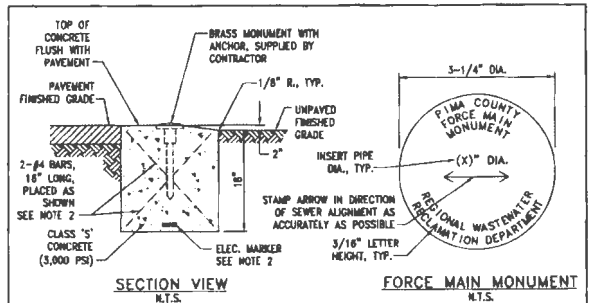
NOTE:
INSTALLATION OF FITTINGS AND TAPPING SADDLES SHALL CONFORM TO THE PIPE MANUFACTURER'S RECOMMENDATIONS AND SUBSECTION 3.2.3(C).

REVISION	STANDARD DETAIL	DETAIL NO.
0/02	HCS CONNECTION TO SEWER LINE	RWRD 401
REVISION		
10/16		



NOTES:
1. THIS SPECIAL STANDARD DETAIL MAY BE USED BY THE CONTRACTOR IF APPROVED IN THE PLANS OR IN WRITING BY THE FIELD ENGINEER.
2. THE CONNECTION OF 4" DIAMETER HOUSE CONNECTION SEWERS (HCS) INTO MANHOLES SHALL BE AVOIDED EXCEPT WHERE INDICATED ON THE PLANS OR AS APPROVED BY THE FIELD ENGINEER.
3. THE CROWN ELEVATION OF EACH HCS SHALL MATCH THE CROWN ELEVATION OF THE OUTGOING SEWER LINE.

REVISION	SPECIAL STANDARD DETAIL	DETAIL NO.
0/02	HCS CONNECTIONS TO MANHOLES	RWRD 402
REVISION		
12/12		



NOTES:
1. MONUMENT DATA SHALL BE AS SHOWN, WITH THE EXCEPTION OF THE NOTATION IN PARENTHESIS TO BE MODIFIED AS NOTED.
2. REINFORCING BARS MAY BE DELETED WITH THE INSTALLATION OF AN APPROVED ELECTRONIC MARKER SYSTEM PLACED AT THE BASE OF THE MONUMENT AS SHOWN.
3. ABANDONMENT MONUMENTS SHALL BE PLACED AT THE TERMINAL ENDS OF ABANDONED SEWER LINES/FORCE MAINS WITH A MAXIMUM SPACING OF 250' AND CENTERED ABOVE ABANDONED MANHOLES.

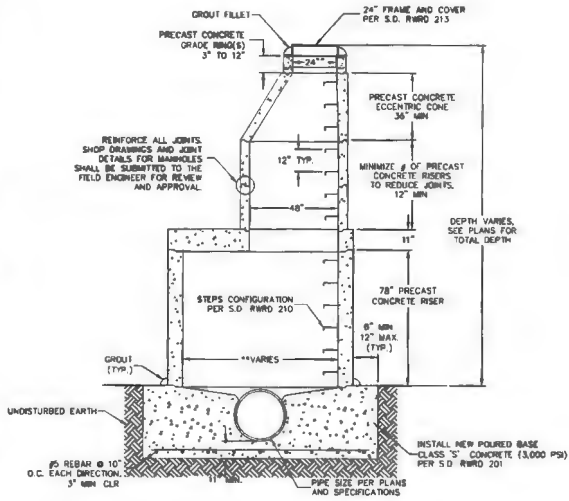
REVISION	STANDARD DETAIL	DETAIL NO.
0/02 (PMA-517/908)	FORCE MAIN AND ABANDONMENT MONUMENTS	RWRD 503
REVISION		
12/12		

EXHIBIT B
1587-15-PCRWRD
ADDENDUM 1

DESIGNED BY	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V NOT FOR CONSTRUCTION RECORDING
DRAWN BY	A. LEFENOFF	5/16		
CHECKED BY	G. ZAVALE	5/16		
DATE	M. DALY	5/16		
PSOMAS			INA ROAD SEWER MODIFICATION PLANS PCRWRD STANDARD DETAILS	
ROUTE	1-10	LOCATION	INA ROAD T.I.	

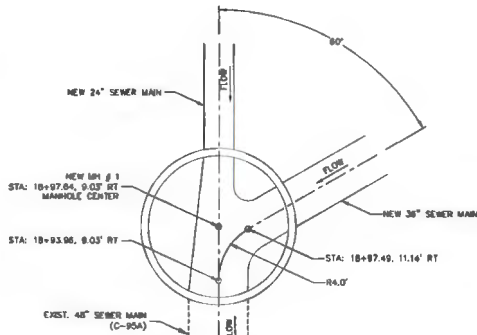
NO.	DATE	REVISION	BY	CHKD.	APPR.	TRACS NO.	010-D12161S	010-D12161S	OF
						010			

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D2161S	843	843	
010 PM 248					



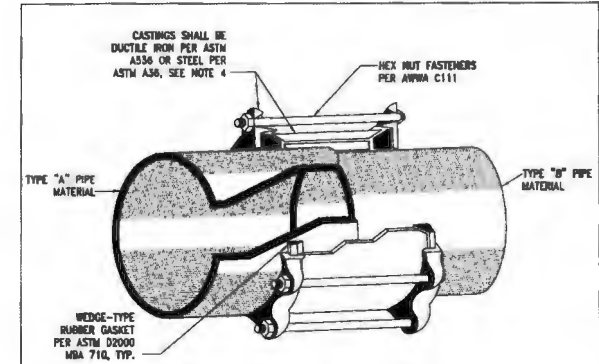
NOTES:
 1 DESIGN LOAD: MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478 AND AASHTO M-199. FLAT TOPS AND BASE SLABS SHALL BE DESIGNED FOR A MINIMUM OF H=20 TRAFFIC TO 30' STACK HEIGHT.

A SEWER MANHOLE DETAIL
 12" FOR MANHOLES #2, #3, #4,
 18" FOR MANHOLES #5, #6, #7,
 180" FOR MANHOLES #1.



NOTES:
 1 FLOW CHANNEL CONFIGURATION PER EDS 5.2.7.
 2 BENCH ACCESS PER STD DTL. RWRD 202.

B SEWER MANHOLE DETAIL
 FOR NEW MH # 1



- NOTES:
- COUPLINGS SHALL BE RIGID, COMPRESSION TYPE COUPLINGS AS SHOWN, APPROPRIATELY SIZED AND SUITABLE FOR SANITARY SEWER APPLICATIONS. APPROVED COUPLINGS SHALL BE IN THE DEPARTMENT'S LIST OF APPROVED PRODUCTS.
 - ADJUSTABLE REPAIR COUPLINGS (I.E. MISSOURI) FOR SANITARY SEWER APPLICATIONS MAY BE PERMITTED ON A CASE-BY-CASE BASIS FOR EXISTING 12" DIAMETER VCP OR CONCRETE SEWER PIPE AND SMALLER, ONLY WITH PBEOR APPROVAL BY THE FIELD ENGINEER.
 - WHERE THERE IS A 1" DIFFERENTIAL IN INTERNAL DIAMETERS OF THE 2 DIFFERENT PIPE TYPES, A SPECIAL CONNECTION, APPROVED BY THE FIELD ENGINEER, SHALL BE USED TO ELIMINATE THE DIFFERENTIAL AT THE JOINT.
 - CASTINGS SHALL HAVE AN APPROVED FACTORY-APPLIED INTERIOR AND EXTERIOR CORROSION-RESISTANT COATINGS FOR SANITARY SEWER APPLICATIONS.
 - SEE SUBSECTION 3.4.3 - FOR A CURRENT LIST OF APPROVED PRODUCTS FOR PUBLIC SEWERS, CHECK THE DEPARTMENT'S WEBSITE OR CONTACT THE FIELD ENGINEERING SECTION.

ISSUED:	STANDARD DETAIL	DETAIL NO.
8/02	COUPLING FOR UNLIKE PIPE MATERIALS	RWRD 103
REVISED:		
10/16		



EXHIBIT B
 3597-15-PCRWRD
 ADDENDUM 1

DESIGN		K. LETENDRE	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V Review NOT FOR CONSTRUCTION OR RECORDING
DRAWN		D. ZAVALA	5/16		
CHECKED		M. OAL	9/16		
PSOMAS				INA ROAD SEWER MODIFICATION PLANS PCRWRD STANDARD DETAILS	
ROUTE	1-10	LOCATION	INA ROAD T.I.		DWG NO. U-0414
NO.	DATE	REVISION	BY	CHKD.	APPR.
TRACS NO. HB479 OIC				010-D2161S	

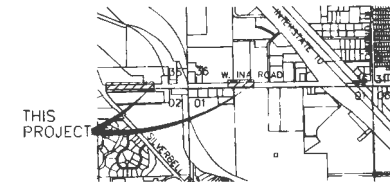


PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT

INA ROAD FORCE MAIN SEWER MODIFICATION SILVERBELL ROAD TO STARCOMMERCE WAY UPC-2014-013

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	MRN-0101415	240	246	

0000 PM MRN



THIS PROJECT

LOCATION MAP
SCALE: 3" = 1 mile
BEING A PORTION OF THE
SE 1/4 OF SECTION 35 AND
SW 1/4 OF SECTION 36,
T-12-S, R-7-12-E,
G4SRM
TOWN OF MARANA, PIMA COUNTY, ARIZONA

12" FORCE MAIN DISCHARGE POINT
LATITUDE: 32° 20' 15.52"N
LONGITUDE: 111° 04' 26.55"W

INDEX OF SHEETS

PAGE NO.	SHEET NO.	SHEET DESCRIPTION
240	U-04.01	Cover Sheet
241-242	U-04.02 - U-04.03	General Notes
243	U-04.04	Survey Control
244	U-04.05	Removal Sheet
245	U-04.06	Detail Sheet

BOARD OF SUPERVISORS

DISTRICT	MEMBER	MEMBER	CHAIRMAN	MEMBER	MEMBER
DISTRICT 2	RAMON VALADEZ	ALLY MILLER	SHARON BRONSON	RAY J. CARROLL	RICHARD ELIAS

PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPT.

ERIC WEIDUMLT, P.E. DEPUTY DIRECTOR DATE

TOWN OF MARANA (for Sewer location in R.O.W. only) DATE

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V REVIEW NOT FOR CONSTRUCTION OR RECORDING
DESIGN	C. REMMAL	5/15/16	PSOMAS INA ROAD SEWER MODIFICATION PLANS COVER SHEET	DWG NO. U-04.01 OF
DRAWN	G. ZAVALA	5/16/16		
CHECKED	M. DALY	5/16/16		

EXHIBIT B
3597-15-PCRWRD
ADDENDUM 1



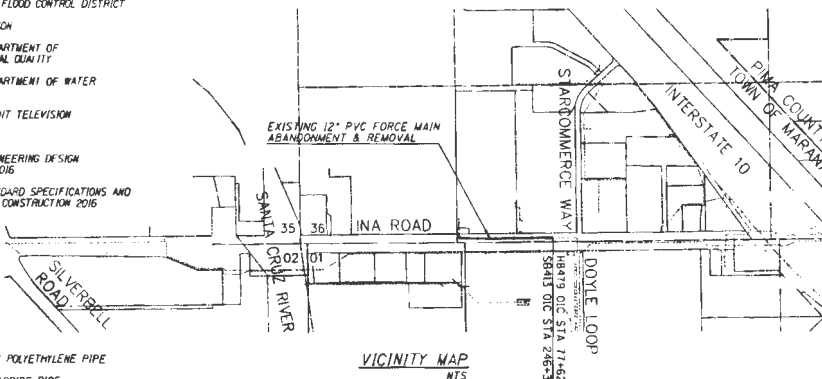
NO.	DATE	REVISION	BY	CHKD.	APPR.

LEGEND

NEW	EXISTING	FEATURE
⊙	⊙	MANHOLE, SANITARY SEWER
—S—	—S—	SANITARY SEWER LINE (GRAVITY)
—FM—	—FM—	SANITARY SEWER LINE (FORCE MAIN)
⊕	⊕	FORCE MAIN TEST STATION
—G—	—G—	GAS LINE
—GM—	—GM—	GAS MARKER
—UT—	—UT—	UNDERGROUND TELEPHONE LINE
—UE—	—UE—	UNDERGROUND ELECTRIC LINE
—FO—	—FO—	UNDERGROUND FIBER OPTIC LINE
—OE—	—OE—	OVERHEAD ELECTRIC
—WM—	—WM—	WATER MAIN
□	□	WATER METER BOX
□	□	GAS METER BOX
⊕	⊕	WATER VALVE
⊕	⊕	GAS VALVE
□	□	IRRIGATION BOX
□	□	TELEPHONE PEDESTAL
⊕	⊕	ELECTRIC POWER POLE W/ OUT WIRE
⊕	⊕	ELECTRICAL TRANSFORMER
⊕	⊕	ELECTRICAL PEDESTAL
---	---	RIGHT OF WAY LINE
---	---	PROPERTY LINE
---	---	EASEMENT LINE
---	---	GRADE PROFILE
---	---	SECTION LINE
---	---	QUARTER SECTION LINE
⊕	⊕	FORCE MAIN MONUMENT
---	---	ABANDON/REMOVE EXISTING SEWER
---	---	TEMP. CONSTRUCTION ESMT. (TCE)
⊕	⊕	FIRE HYDRANT
⊕	⊕	SECTION CORNERS
⊕	⊕	QUARTER CORNERS
⊕	⊕	BENCHMARKS
⊕	⊕	SAGUARO
⊕	⊕	POTHOLE TEST PIT

ABBREVIATIONS

PCRWRD	- PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT
PCDOT	- PIMA COUNTY DEPARTMENT OF TRANSPORTATION
PCFCD	- PIMA COUNTY FLOOD CONTROL DISTRICT
CDT	- CITY OF TUCSON
AEDQ	- ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
ADWR	- ARIZONA DEPARTMENT OF WATER RESOURCES
CCTV	- CLOSED CIRCUIT TELEVISION
MH	- MANHOLE
EDS 2016	- PCRWRD ENGINEERING DESIGN STANDARDS 2016
SSDE 2016	- PCRWRD STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION 2016
EL./ELEV.	- ELEVATION
EX./EXST.	- EXISTING
INV.	- INVERT
VT.	- VERTICAL
PT.	- POINT
GB	- GRADE BREAK
HOPE	- HIGH DENSITY POLYETHYLENE PIPE
PVC	- POLYVINYL CHLORIDE PIPE
DIP	- DUCTILE IRON PIPE
NPI	- NON-PAY ITEM
PIP	- PROTECT IN PLACE



VICINITY MAP
NTS

UTILITIES AND OTHER LISTINGS

Organization	Phone Number
Tucson Electric Power	(520) 918-8246
Cox Cable	(520) 629-8511
Century Link Comm.	(520) 292-7555
Comcast Cable	(520) 744-1900
Tucson Water	(520) 791-2648
Pima County DOT	(520) 724-6367
Southwest Gas	(520) 794-6021

SUMMARY OF MATERIALS TABLE

Description	Est. Qty.	Unit
SURVEY MONUMENT (FORCE MAIN)	10	EACH

SUMMARY OF REMOVAL TABLE

Description	Est. Qty.	Unit
12" PVC FORCE MAIN SEWER, REMOVE	700	L.F.

AS-BUILT:
As-Built Certification
I hereby certify that the As-Built annotations provided on these drawings were based on an As-Built survey conducted under my supervision and accurately depicts existing field conditions to the best of my knowledge and belief.

REGISTERED LAND SURVEYOR DATE
(OR REGISTERED P.E.)

G-2016-049

DATE: _____
 LOCATION: _____
 THE ISSUES: _____
 PREPARED BY: _____
 SURVEY NO.: _____
 DATE: _____
 LOCATION: _____
 REVISIONS: _____
 DRAWING NO.: _____

GENERAL NOTES

28. WHERE CONNECTIONS TO EXISTING MANHOLES ARE TO BE MADE, THE CONTRACTOR SHALL CONTACT THE INVERTS IN THE EXISTING BONE TO DETERMINE THE DIRECTION OF FLOW IN THE PROPER DIRECTION.
29. 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 (PUBLIC) SANITARY SEWER CONVEYANCE SYSTEM.
30. ALL DISTURBED AREAS SHALL BE RESTORED TO PROVIDE POSITIVE DRAINAGE AND TO MATCH THE EXISTING CHANNEL PATTERNS, WHICH SHALL BE CONSIDERED ESSENTIAL TO THE PROJECT WITH NO SPECIAL COMPENSATION PROVIDED.
31. NO REGULATORY FEMP DISCIPLINES EXIST WITHIN THE PROJECT LIMITS. THE PROJECT IS LOCATED ENTIRELY WITHIN ZONE X.

ADDED NOTES

1. ALL SEWER LINES SHALL BE COVERED WITH AT LEAST 4 FEET OF BACKFILL PER PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT (PWRD).
2. THE FULL LENGTH OF SEWER MAIN SHALL BE DEFLECTION TESTED PER A.A.C. R18-9-E301 (D) (2) (ii).
3. EACH SEGMENT OF THE SEWER MAIN SHALL BE LEAK TESTED PER A.A.C. R18-9-E301 (D) (2) (i).
4. THE FULL LENGTH OF SEWER MAIN SHALL BE TESTED ON UNIFORM SLOPE PER A.A.C. R18-9-E301 (D) (2) (ii).

PIMA COUNTY	DATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
CL	AND	MRN-061415	242	246
5000 PM MRN				

EXHIBIT B
3587-15-PCRWRD
ADDENDUM 1



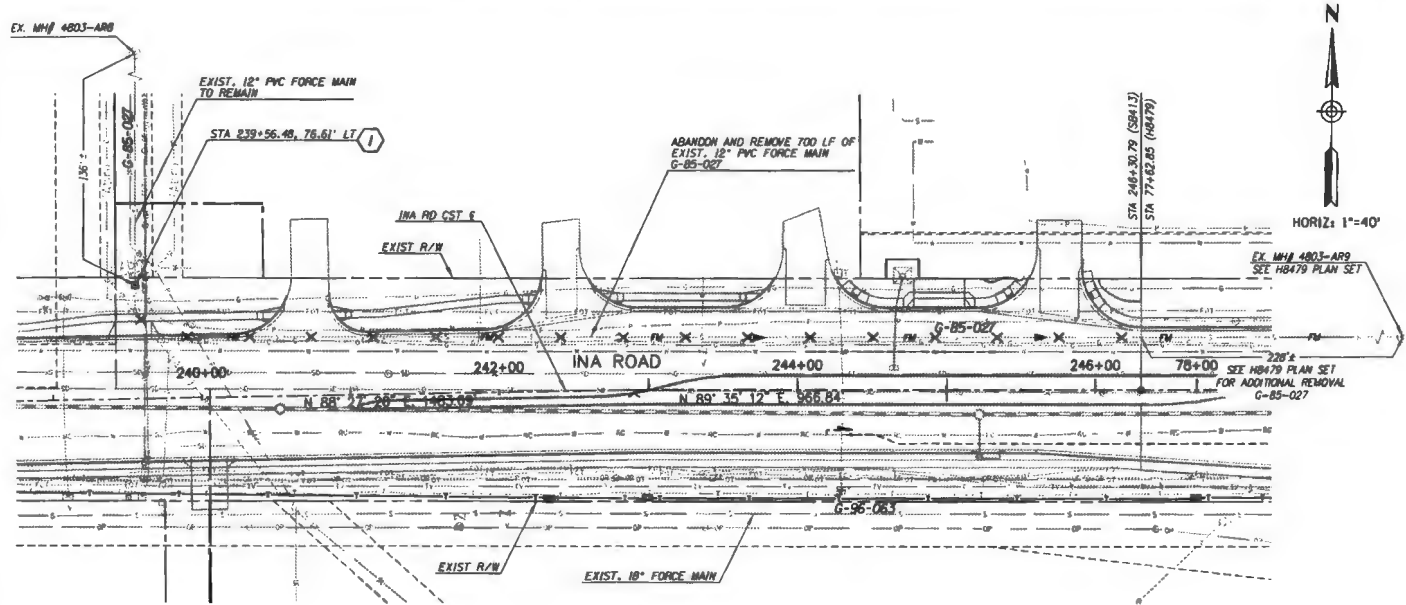
DESIGN: ALAN J. ZAVALZA DRAWN: M. S. S. S. S. TITLE:	NAME: _____ TITLE: _____ DATE: _____	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PPT NUMBER: STAGE V Review DATE: _____ BY: _____
PSOMAS PIMA COUNTY WASTEWATER RECLAMATION 1111 N. UNIVERSITY AVENUE, SUITE 100 TULSA, ARIZONA 74103-1000 (505) 261-2000 FAX (505) 261-2001 WWW.PSOMAS.COM		INA ROAD SEWER MODIFICATION PLANS GENERAL NOTES	
ROUTE: _____ LOCATION: _____		TRACS NO. SB413 DIC MRN-061415 OF _____	

NO.	DATE	REVISION	BY	CHKD	APPN

FALSA REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	MRN-0101415	244	246	
0000 PM MRN					

KEYNOTES

1. CAP EXISTING FORCEMAIN AT R/W AND INSTALL MONUMENT PER PCRWRD STD. DTL. RWRD 503.



**INA ROAD
12" PEPPER TREE FORCE MAIN REMOVAL**

**EXHIBIT B
3597-15-PCRWRD
ADDENDUM 1**

DESIGN	C. REMAE	9/16	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V <small>Review</small> NOT FOR CONSTRUCTION OR RECORDING DWG NO. U-04.05
DRAWN	D. ZAYALA	9/16		
CHECKED	NO DAILY	9/16		
PSOMAS			INA ROAD SEWER MODIFICATION PLANS EASTBOUND FRONTAGE ROAD	
ROUTE 000			INA ROAD SILVERBELL TO STARCOMMERCE	
TRACS NO. SB413 OIC			MRN-0101415	OF

NO.	DATE	REVISION	BY	CHKD	APPR

DATE: _____ LOCATION: _____ REVISIONS: _____ PREPARED PLANS: _____ SURVEY NO. _____ DATE: _____ LOCATION: _____ REVISIONS: _____ SURVEY NO. _____

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	MRN-0101415	246	246	
0000 PM MRN					

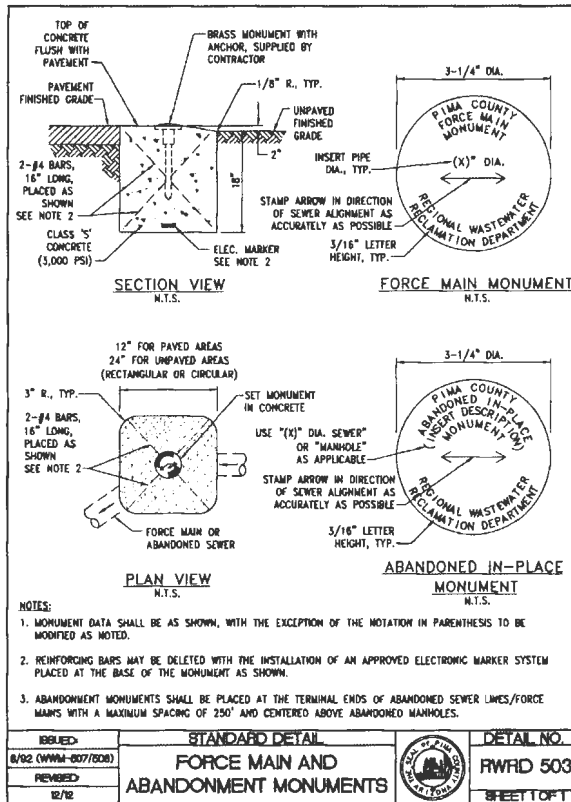


EXHIBIT B
3597-15-PCRWRD
ADDENDUM 1

DESIGN	C. RENNIE	DATE	9/18	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE V <small>Review NOT FOR CONSTRUCTION OR RECORDING</small>
DRAWN	G. ZAVALA	DATE	9/18	PSOMAS <small>INA ROAD SEWER MODIFICATION PLANS STEEL CASING DETAIL</small>	
CHECKED	M. DALY	DATE	9/18		
ROUTE		LOCATION		DRAW NO	
000		INA ROAD SILVERBELL TO STARCOMMERCE		U-04.06	
TRACS NO. SB413 OIC		MRN-0101415		OF	

	PIMA COUNTY WASTEWATER RECLAMATION
NO.	DATE
REVISED	BY
BY	CHKD
APPR.	APPR.

DATE: _____ LOCATION: _____ REVISIONS: _____ FINISHED PLANS: _____

EXHIBIT C
ADDENDUM NO. 1 TO AGREEMENT NO. 3597-15-PCRWRD
I-10, INA ROAD TI
GMP2

PRIOR RIGHTS

H8479 I-10 INA TI - PCRWRD**ADOT PRIOR RIGHT – ADOT PAY**

Location	Type and Size	Length (FT)	Description
STA 1784+65, 21' RT TO STA 1787+22, 21' RT EASTBOUND FRONTAGE ROAD (EBFR) STATIONING	8" PVC	254'	Outside Existing ADOT Right of Way Sewer Easement Per DK 8046 PG 1878, Recorded 3/16/1987 and Sewer As-Built Plans Per G-87-022 dated 1987
STA 1787+22, 21' RT TO STA 1791+17, 45' RT EBFR STATIONING	8" PVC	393'	Outside Existing ADOT Right of Way Sewer Easement Per DK 8046 PG 1863, Recorded 3/24/1987 and Sewer As-Built Plans Per G-87-022 dated 1987

TOWN OF MARANA NO PRIOR RIGHT – PCRWRD PAY

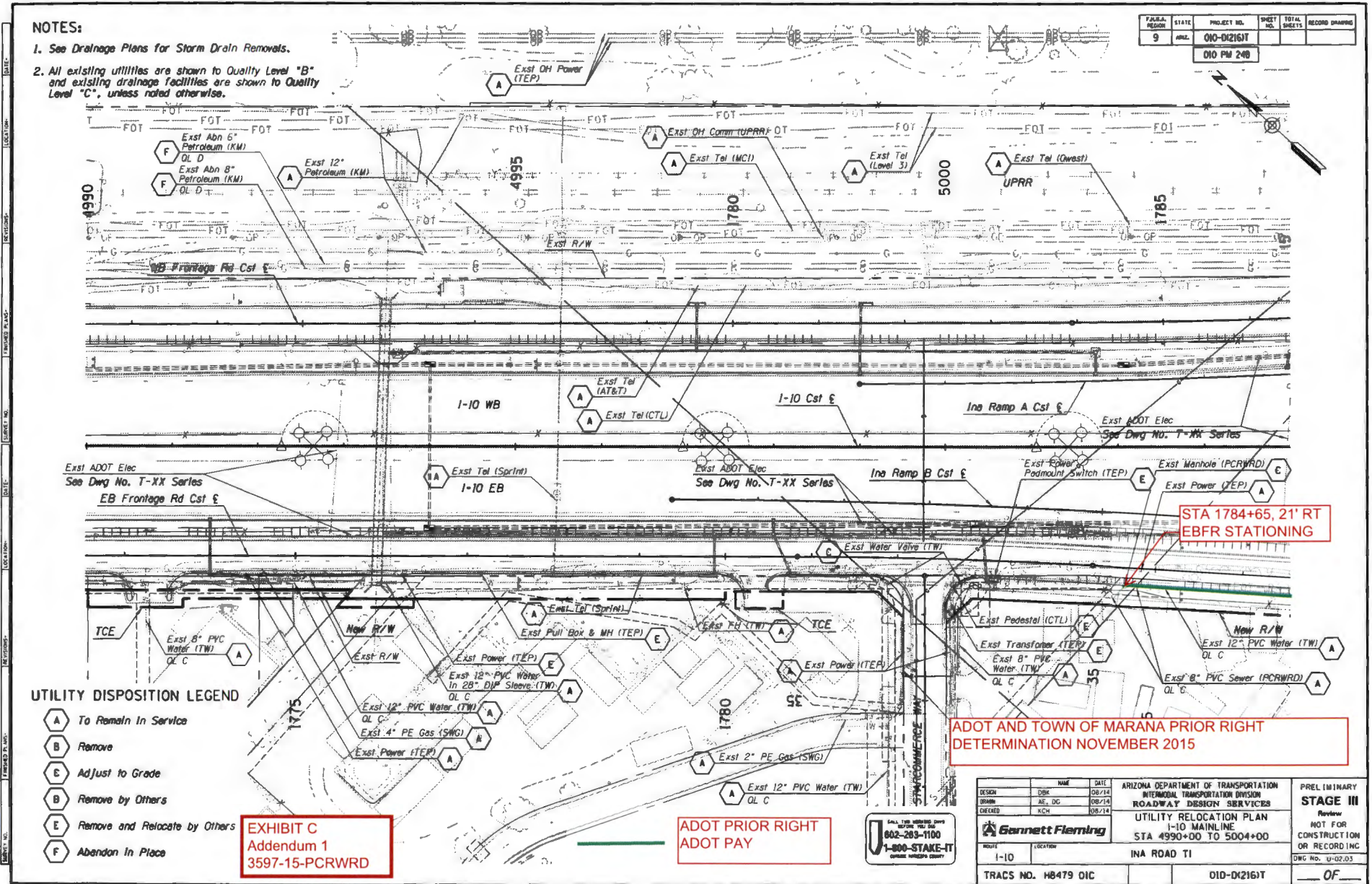
Location	Type and Size	Length (FT)	Description
STA 80+53, 35' LT TO STA 80+68, 161' RT INA ADOT STATIONING	12" PVC	215'	Town of Marana Determined
STA 110+54, 236' LT TO STA 110+59, 68' LT INA ADOT STATIONING	24" VCP	168'	Town of Marana Determined PCRWRD does not Claim Prior Rights
STA 110+59, 68' LT TO STA 110+62, 49' RT INA ADOT STATIONING	30" VCP	117'	Town of Marana Determined PCRWRD does not Claim Prior Rights
STA 110+62, 49' RT TO STA 110+35, 67' RT INA ADOT STATIONING	48" RCP	33'	Town of Marana Determined
STA 110+62, 49' RT TO STA 112+12, 48' RT INA ADOT STATIONING	36" RCP	150'	Town of Marana Determined
STA 112+12, 48' RT TO STA 113+01, 48' RT INA ADOT STATIONING	36" RCP	89'	Town of Marana Determined
STA 110+59, 68' LT TO STA 115+07, 66' LT INA ADOT STATIONING	8" VCP	448'	Town of Marana Determined PCRWRD does not Claim Prior Rights

**Exhibit C
Addendum 1
3597-15-PCRWRD**

NOTES:

1. See Drainage Plans for Storm Drain Removals.
2. All existing utilities are shown to Quality Level "B" and existing drainage facilities are shown to Quality Level "C", unless noted otherwise.

FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D1216T			
D10 PM 240					



UTILITY DISPOSITION LEGEND

- A** To Remain In Service
- B** Remove
- C** Adjust to Grade
- D** Remove by Others
- E** Remove and Relocate by Others
- F** Abandon In Place

**EXHIBIT C
Addendum 1
3597-15-PCRWRD**

**ADOT PRIOR RIGHT
ADOT PAY**



**STA 1784+65, 21' RT
EBFR STATIONING**

**ADOT AND TOWN OF MARANA PRIOR RIGHT
DETERMINATION NOVEMBER 2015**

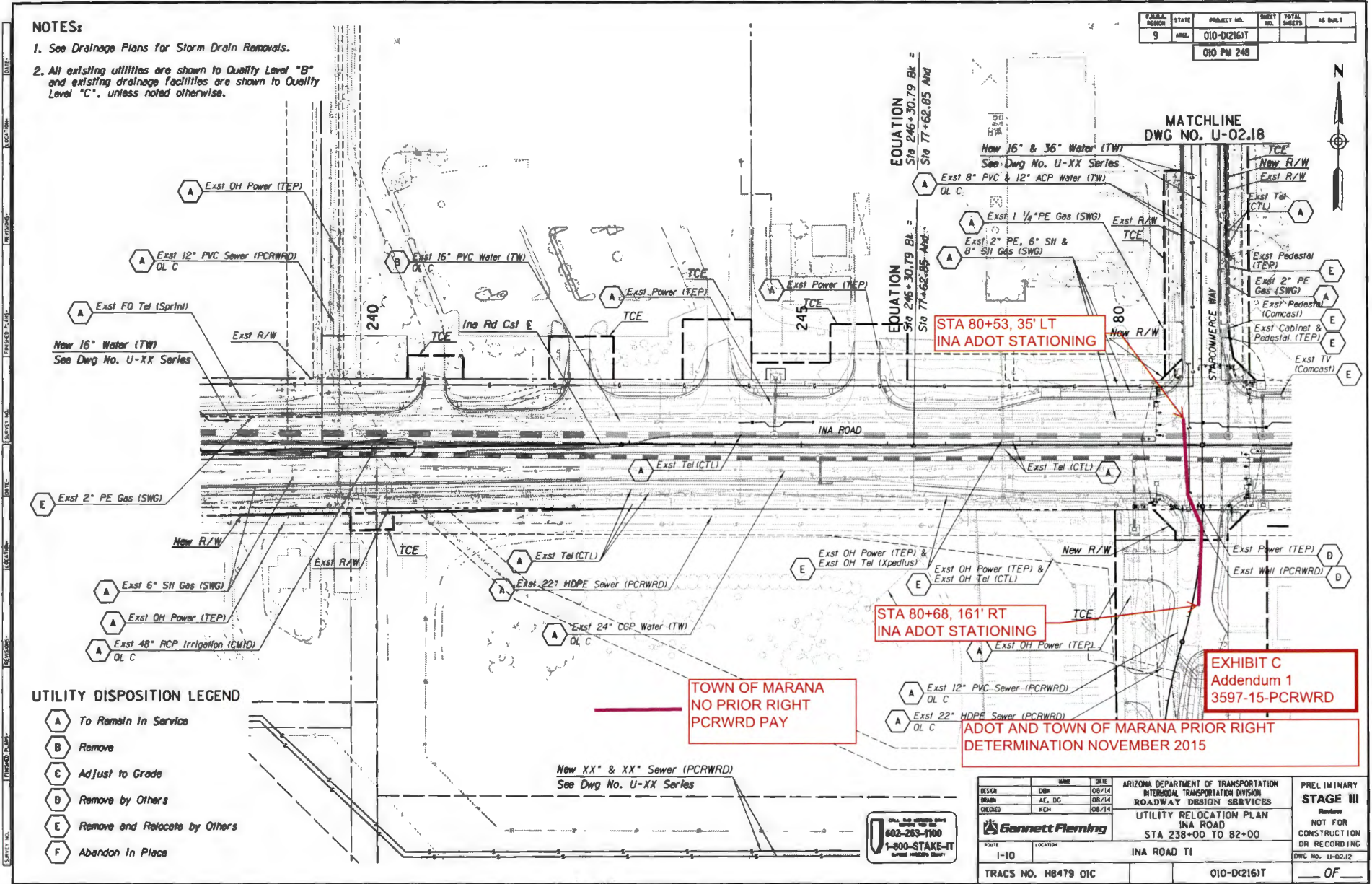
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE III Review NOT FOR CONSTRUCTION OR RECORDING DWG No. U-02.03
DESIGN	DBK	08/14		
DESIGN	AE, DC	08/14		
CHECKED	ACH	08/14	UTILITY RELOCATION PLAN I-10 MAINLINE STA 4990+00 TO 5004+00	DWG No. U-02.03
PROJECT	I-10	LOCATION		
TRACS NO. H8479 OIC			010-D1216T	OF

NOTES:

1. See Drainage Plans for Storm Drain Removals.
2. All existing utilities are shown to Quality Level "B" and existing drainage facilities are shown to Quality Level "C", unless noted otherwise.

FEDERAL ROAD DISTRICT	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	010-DK2161T			

010 PM 248



TOWN OF MARANA
NO PRIOR RIGHT
PCRWRD PAY

EXHIBIT C
Addendum 1
3597-15-PCRWRD

ADOT AND TOWN OF MARANA PRIOR RIGHT
DETERMINATION NOVEMBER 2015

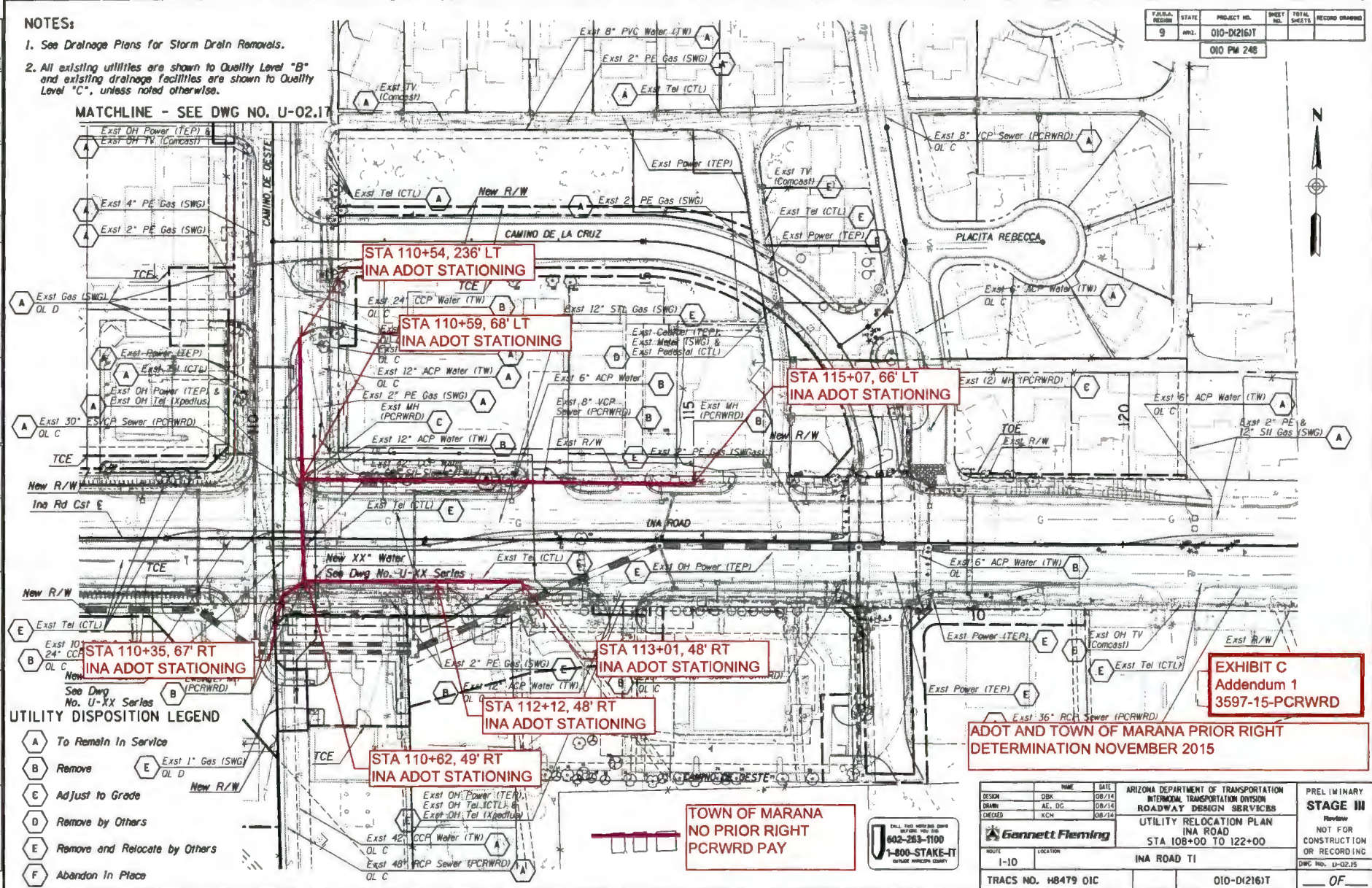
DESIGN	DATE	NAME	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE III
DESIGN	08/14	DBK	UTILITY RELOCATION PLAN INA ROAD STA 238+00 TO 82+00	REVISION NOT FOR CONSTRUCTION OR RECORDING
DRAWN	08/14	AE, DC		
CHECKED	08/14	KCH		
Gannett Fleming				
ROUTE	LOCATION	INA ROAD T1		DWG No. U-02.12
1-10		TRACS NO. H8479 01C		010-DK2161T

NOTES:

1. See Drainage Plans for Storm Drain Removals.
2. All existing utilities are shown to Quality Level "B" and existing drainage facilities are shown to Quality Level "C", unless noted otherwise.

MATCHLINE - SEE DWG NO. U-02.17

FED. AID DISTRICT	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D2161T			
010 PM 248					



UTILITY DISPOSITION LEGEND

- A** To Remain In Service
- B** Remove
- C** Adjust to Grade
- D** Remove by Others
- E** Remove and Relocate by Others
- F** Abandon In Place

EXHIBIT C
Addendum 1
3597-15-PCRWRD

ADOT AND TOWN OF MARANA PRIOR RIGHT DETERMINATION NOVEMBER 2015

TOWN OF MARANA
NO PRIOR RIGHT
PCRWRD PAY

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY STAGE III Review NOT FOR CONSTRUCTION OR RECORDING
DRAWN	AE, DC	08/14		
CHECKED	KCH	08/14		
			UTILITY RELOCATION PLAN INA ROAD STA 108+00 TO 122+00	DWG NO. U-02.15
ROUTE	LOCATION	INA ROAD TI		
TRACS NO.	H8479 OIC		010-D2161T	OF