



Transportation Systems Management and Operations  
Traffic Safety Section

# HSIP Construction Pricing Examples



January 2020

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***23 USC § 409 - Discovery and admission as evidence of certain reports and surveys***

*Notwithstanding any other provision of law, reports, surveys, schedules, lists, or data compiled or collected for the purpose of identifying, evaluating, or planning the safety enhancement of potential accident sites, hazardous roadway conditions, or railway-highway crossings, pursuant to sections 130, 144, and 148 of this title or for the purpose of developing any highway safety construction improvement project which may be implemented utilizing Federal-aid highway funds shall not be subject to discovery or admitted into evidence in a Federal or State court proceeding or considered for other purposes in any action for damages arising from any occurrence at a location mentioned or addressed in such reports, surveys, schedules, lists, or data.*

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## **Introduction:**

The purpose of this document is to provide agencies that are submitting potential HSIP applications resources to compare their estimated design and construction cost estimates to historical design and construction bid information.

If an agency is looking for a detailed Bid Item History for a specific project identified in this document, they should visit the ADOT Estimated Engineering Construction Cost E2C2 web site that is available at <https://apps.azdot.gov/e2c2/HistoricalPrice.aspx>. Enter the ADOT TRACs construction number and make sure the Bid Award Date is between the "From and To" Bid Opening Dates in the parameter conditions.

Design and construction estimates submitted and prepared by the submitting agency verifying the unit prices and quantities are the responsibility of the Agency and any design or construction costs exceeding the estimated design or construction amounts, must come from funding sources other than HSIP.

Table of High and Low Costs				
Countermeasure (CM)	Location	Number of CMs in List	High Cost	Low Cost
Left-Turn Lane w/Lighting	Intersection	1	\$708,889.00	
Lighting	Intersection	2	\$419,413.00	\$335,502.68
Right-Turn Lane	Intersection	1	\$543,981.00	
Roundabout	Intersection	2	\$4,266,168.00	\$2,875,985.00
Traffic Signal	Intersection	4	\$4,259,847.00	\$405,937.00
Lighting	Segment	1	\$1,110,376.00	
Pavement Markings & Rumble Strips	Segment	3	\$1,689,444.00	\$551,035.00
Shoulders	Segment	4	\$14,307,597.00	\$833,804.00
Two-Way Left-Turn Lane	Segment	1	\$1,315,575.00	

## **Intersection Improvements:**

Countermeasure: Left-Turn Lanes & Lighting

H8877 – SR 87 and Randolph Rd, Intersection Improvements

Scope of Work: The proposed work was located in Pinal County on SR 87, within the city of Coolidge, at the intersection of Randolph Road. The work consisted of widening the pavement along the east side of SR 87 to provide left turn lanes along SR 87 (north & south of Randolph Road). The project also included extending the north side box culvert wingwall that lies west of SR 87 and south of Randolph Road. New light poles were constructed to provide intersection lighting. The work also included striping obliteration, new striping, signing, seeding, and other related work.

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Construction Bidder 1 = \$532,930.95

Construction Bidder 2 = \$552,939.71

Construction Bidder 3 = \$570,302.00

Bid Award Date: 6/16/2017

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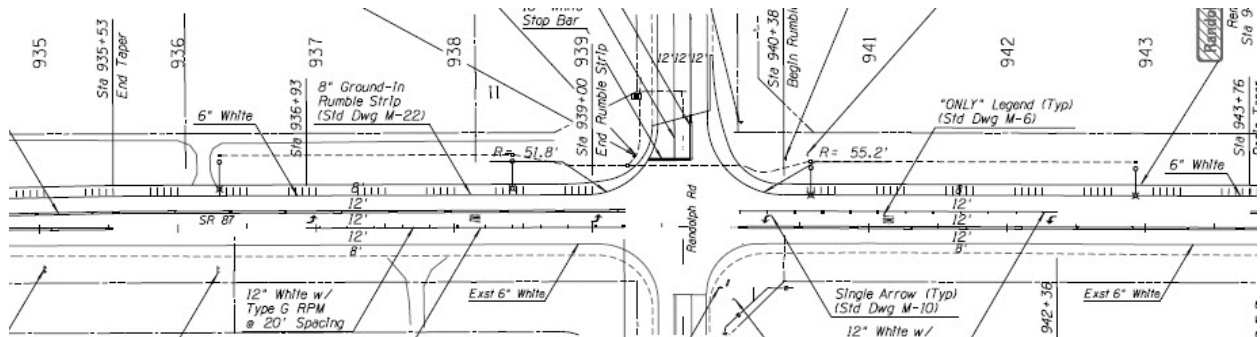
Design Cost: \$38,512.00

Indirect Costs: \$61,433.00

Construction Budget: \$608,944.00

**Total Project Cost: \$708,889.00**

Construction Complete: 11/8/2017







Countermeasure: Intersection Lighting

H8037 – US 160 & IR 21, Intersection Lighting (3 Legs)

Scope of Work: The proposed work was located in Coconino county on US 160 between MP 343.47 and MP 343.70 at the intersection of US 160 and Indian Route (IR) 21 in Tonalea, Arizona, within the Navajo Indian Reservation. The work included installation of lighting poles, mast arms, luminaires, electrical conduit with conductors, foundations, breakaway bases, Type IV load center cabinet establishing a power source for the street lights and other related items.

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Construction Bidder 1 = \$150,865.54

Construction Bidder 2 = \$151,141.30

Construction Bidder 3 = \$197,437.18

Bid Award Date: 3/14/2014

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Design Cost: \$57,012.00

ADOT Review and Delivery Fees: \$42,340.00

Indirect Cost: \$27,004.00

Construction Budget: \$209,146.68

**Total Project Cost: \$335,502.68**

Construction Complete: 2/18/2015



BEARINGS ARE GROUND/GRID BEARINGS  
 DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)  
 COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)  
 DATUMS ARE BASED ON NAD 83 ARIZONA STATE PLANE, CENTRAL ZONE AND  
 HAVE BEEN DETERMINED BY USING THE NGS ONLINE POSITIONING USER SERVICE  
 SOLUTION REPORT SHOWING A GRID TO GROUND SCALE FACTOR OF  
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 TRANSFERRED TO HING.

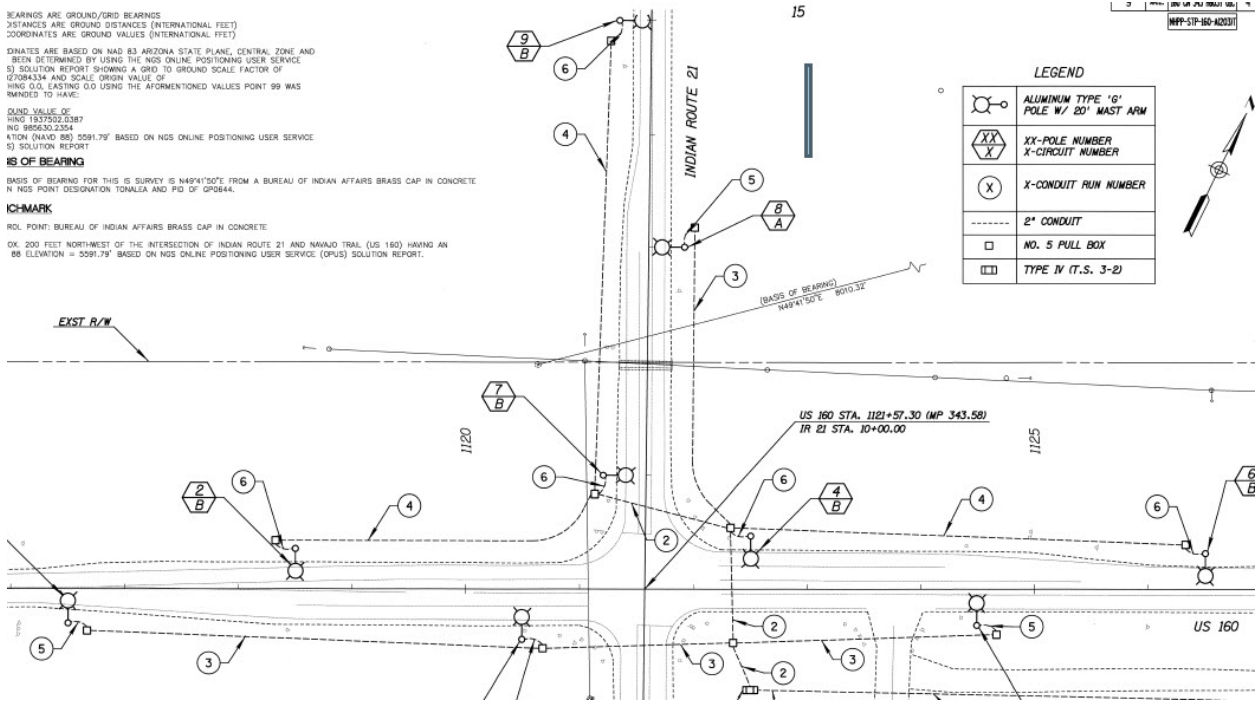
ROUND VALUE OF  
 HING 1937502.2387  
 HING 88650.2384  
 ELEVATION (NAVD 88) 5591.79' BASED ON NGS ONLINE POSITIONING USER SERVICE  
 SOLUTION REPORT

**BS OF BEARING**

BASES OF BEARING FOR THIS SURVEY IS N49°41'00" E FROM A BUREAU OF INDIAN AFFAIRS BRASS CAP IN CONCRETE  
 IN HING POINT DESIGNATION TORALJA AND PD OF 200644.

**IC-MARK**

ICL POINT: BUREAU OF INDIAN AFFAIRS BRASS CAP IN CONCRETE  
 200 FEET NORTHWEST OF THE INTERSECTION OF INDIAN ROUTE 21 AND NAWAJO TRAIL (US 160) HAVING AN  
 85' ELEVATION = 5591.79' BASED ON NGS ONLINE POSITIONING USER SERVICE (OPUS) SOLUTION REPORT.



Countermeasure: Intersection Lighting

H8038 – US 89 and US 89A Intersection Lighting (3 Legs)

Scope of Work: The proposed work was located in Coconino county on US 89 and US 89A approximately one-half mile north of the community of Bitter Springs within the Navajo Indian Reservation. The work included installation of 14 new street light poles on US 89 and 3 poles located along US 89A, installation of new metered pedestal, installation of 17 new pull boxes and other related items.

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Construction Bidder 1 = \$250,499.00

Construction Bidder 2 = \$260,607.50

Construction Bidder 3 = \$260,938.20

Bid Award Date: 3/14/2014

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Design Cost: \$57,547.00

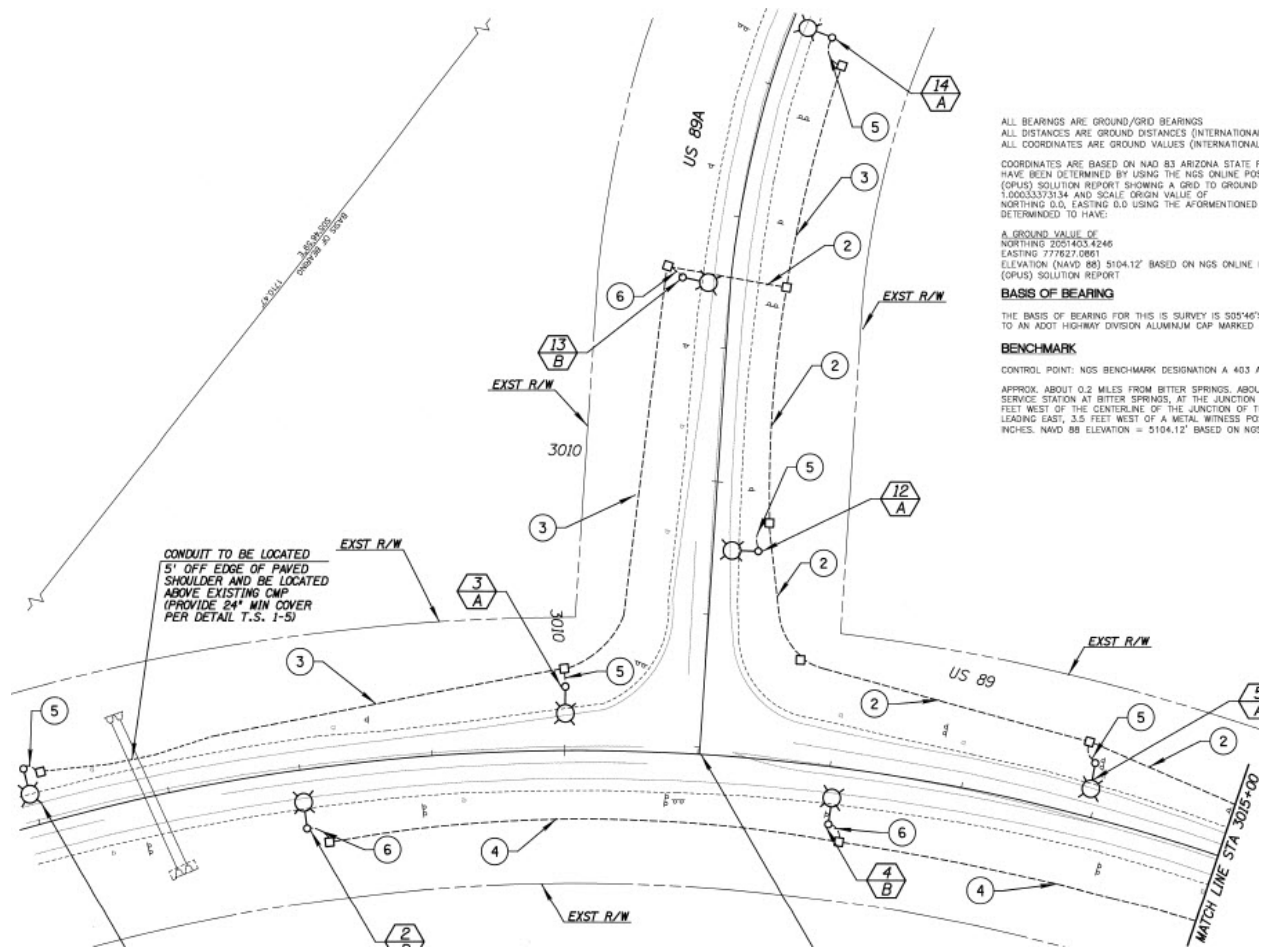
ADOT Review and Delivery Fees: \$37,973.00

Indirect Cost: \$33,998.00

Construction Budget: \$289,895.00

**Total Project Cost: \$419,413.00**

Construction Complete: 9/5/2014



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 ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL)  
 ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL)

COORDINATES ARE BASED ON NAD 83 ARIZONA STATE F  
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 (OPUS) SOLUTION REPORT SHOWING A GRID TO GROUND  
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 DETERMINED TO HAVE:

A GROUND VALUE OF  
 NORTHING 2051403.4246  
 EASTING 777627.0861  
 ELEVATION (NAVD 88) 5104.12' BASED ON NGS ONLINE  
 (OPUS) SOLUTION REPORT

**BASIS OF BEARING**  
 THE BASIS OF BEARING FOR THIS SURVEY IS 205°46'  
 TO AN ADJ. HIGHWAY DIVISION ALUMINUM CAP MARKED

**BENCHMARK**  
 CONTROL POINT: NGS BENCHMARK DESIGNATION A 403 /  
 APPROX. ABOUT 0.2 MILES FROM BITTER SPRINGS, ABOL  
 SERVICE STATION AT BITTER SPRINGS, AT THE JUNCTION  
 FEET WEST OF THE CENTERLINE OF THE JUNCTION OF T  
 LEADING EAST, 3.5 FEET WEST OF A METAL WITNESS PO  
 INCHES. NAVD 88 ELEVATION = 5104.12' BASED ON NGS

CONDUIT TO BE LOCATED  
 5' OFF EDGE OF PAVED  
 SHOULDER AND BE LOCATED  
 ABOVE EXISTING CMP  
 (PROVIDE 24" MIN COVER  
 PER DETAIL T.S. 1-5)





Countermeasure: Right-Turn Lanes

H8605 – SR 68 & Golden Valley, MP 19.8, Three Turn Lanes, Intersection Improvements

Scope of Work: The proposed work was located in Mohave County on WB SR 68, within the town of Golden Valley, at MP 19.81 to MP 19.94; MP 21.80 to MP 21.93 and MP 22.04 to MP 22.17. The work consisted of widening the pavement along the west side of SR 68 to provide three 12 foot wide right-turn lanes with 4 foot wide shoulders, saw cutting and removing existing pavement along the right shoulder, relocating street signs, obliterating existing right edge roadway striping, installing new pavement markings, reconstructing existing driveways, grading to maintain existing drainage patterns and other related work.

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Construction Bidder 1 = \$324,796.33

Construction Bidder 2 = \$346,618.30

Construction Bidder 3 = \$358,358.00

Bid Award Date: 4/15/2016

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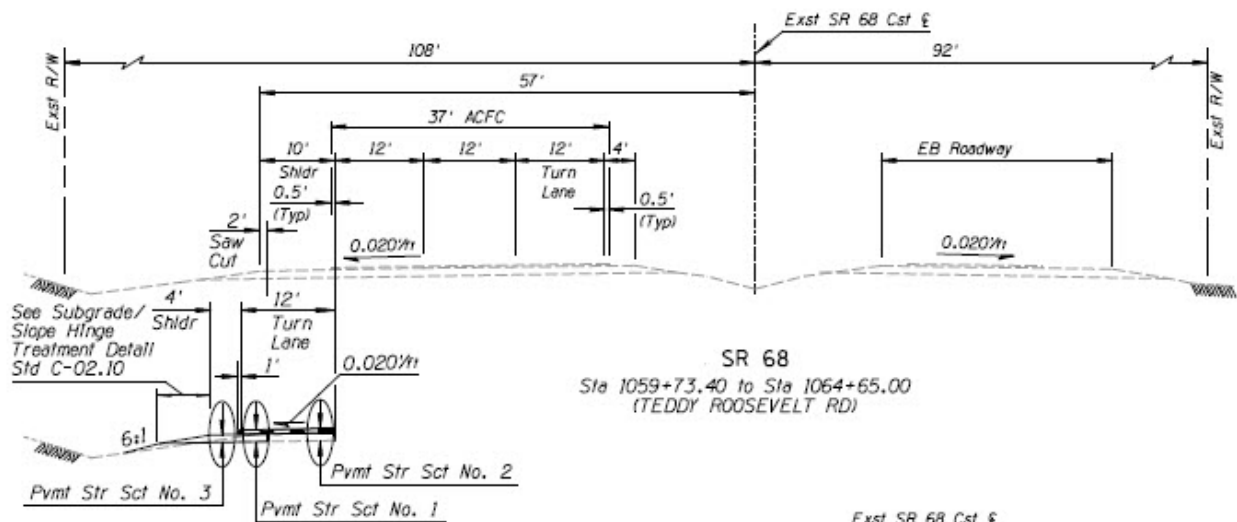
Design Cost: \$161,621.00

Indirect Costs: \$44,119.00

Construction Budget: \$338,241.00

**Total Project Cost: \$543,981.00**

Construction Complete: 10/12/2016







Countermeasure: Roundabout

H8278 - US 89 and Road 4 North, Intersection Improvements

Scope of Work: The proposed work was located in Yavapai County on SR 89 within the Town of Chino Valley, between mileposts 330.48 and 330.78. The work consisted of constructing a new roundabout at the intersection of SR 89 and Road 4 North. Additional work included the removal and replacement of Asphalt Concrete pavement; installing new drainage facilities; replacing pavement markings; removing and installing lighting; and other miscellaneous work.

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Construction Bidder 1 = \$2,183,908.24

Construction Bidder 2 = \$2,274,155.95

Construction Bidder 3 = \$2,294,542.00

Bid Award Date: 10/10/2014

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Design Cost: \$614,493.00

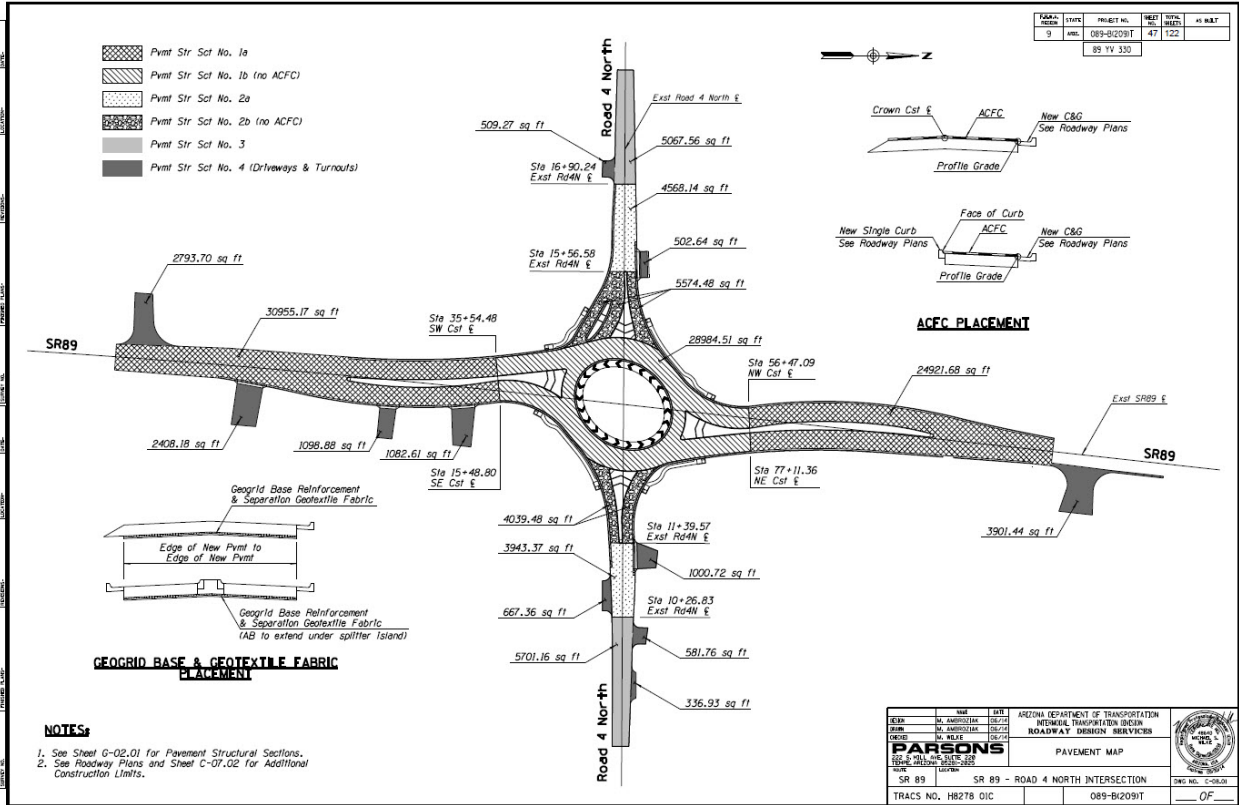
Indirect Costs: \$387,057.00

ADOT Review and Delivery Fees: \$573,577.00

Construction Budget: \$2,691,041.00

**Total Project Cost: \$4,266,168.00**

Construction Compete: 11/13/2015



Countermeasure: Roundabout (Low Speed)

H8625 – SR 260 & Industrial Drive, Intersection Improvements

Scope of Work: The project was located on SR 260 in Yavapai County, in the town of Camp Verde at the intersection of Industrial Drive, MP 218.92. The project limits on SR 260, MP were approximately 218.5 to 219.23. The proposed work consisted of constructing a new roundabout at the intersection of SR 260 and Industrial Drive/Goswick Way. The work included roadway excavation, furnishing and placing aggregate base, asphaltic concrete pavement, and asphaltic friction course; roadway lighting, storm drain improvements; pavement marking, signing, and other related work.

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Construction Bidder 1 = \$1,349,271.83

Construction Bidder 2 = \$1,356,578.15

Construction Bidder 3 = \$1,425,280.90

Bid Award Date: 9/16/2016

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Design Cost: \$469,962.00

Indirect Costs: \$227,427.00

ADOT Review and Delivery Fees: \$109,316.00

Construction Budget: \$2,069,280.00

**Total Project Cost: \$2,875,985.00**

Construction Complete: 7/30/2017





Countermeasure: Traffic Signal (3 Way)

HX120 – US 191 and IR 102 Intersection Improvements

Scope of Work: The project was located in Apache County on US 191 in Chinle, within the Navajo Nation, at the intersection of N 102-3 at milepost 446.68. The work consisted of installation of a traffic signal system which includes traffic signal loop detectors, pavement markings, Department-furnished equipment, traffic signals, video detection system, and other related items.

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Construction Bidder 1 = \$188,919.00

Construction Bidder 2 = \$189,421.58

Construction Bidder 3 = \$190,080.15

Bid Award Date: 12/16/2011

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Design Cost: \$123,989.00

ADOT Cost for Review and Delivery: \$19,357.00

Indirect Costs: \$15,592.00

Construction Budget: \$246,999.00

**Total Project Cost: \$405,937.00**

Construction Complete: 3/29/2012





Countermeasure: Traffic Signal & Right-Turn Lane

HX239 – US 60 & 9<sup>th</sup> PL, Show Low, Intersection Improvements (4 Way)

Scope of Work: The proposed work was located in Navajo County at the intersection of US 60 and 9<sup>th</sup> Place/9<sup>th</sup> Street in the City of Show Low, MP 341.48. The work consisted of removing the existing stop signs, installing a traffic signal, constructing a 150-foot right-turn lane from US 60 onto 9th Street, reconstructing the drainage beneath the newly constructed right-turn lane and reconstructing the open slotted drain along US 60.

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Construction Bidder 1 = \$312,752.75

Construction Bidder 2 = \$336,551.47

Construction Bidder 3 = \$385,529.90

Bid Award Date: 10/11/2013

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Design Cost: \$169,565.00

Indirect Costs: \$52,072.00

ADOT Cost for Review and Delivery: \$30,786.00

Construction Budget: \$400,940.00

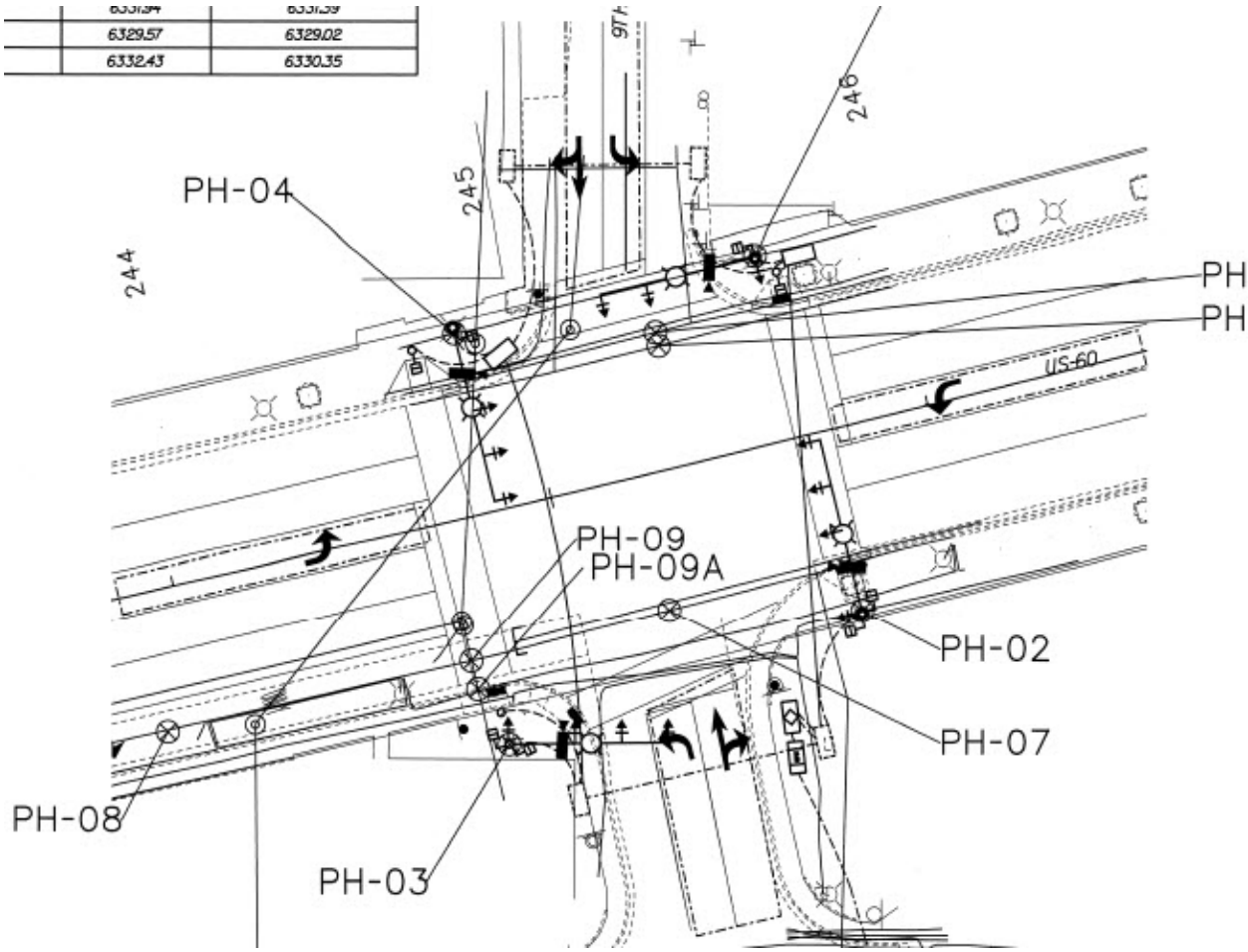
**Total Project Cost: \$653,363.00**

Construction Complete: 8/11/2014





6331.27	6331.27
6329.57	6329.02
6332.43	6330.35





Countermeasure: Traffic Signal w/Offset

H8388 - US 95 and Ave 8E Intersection Improvements

Scope of Work: The project was located in Yuma County on US 95 and Avenue 8E, east of the City of Yuma, from MP 30.67 to MP 31.17 on US95 and 0.36 miles on Avenue 8E. The work consisted of reconstructing the intersection and two-way left turn lane existing and new alignment. The work included placing asphaltic concrete (miscellaneous structural)(special mix), constructing guardrail, replacing pavement marking, lighting, traffic signal and other miscellaneous work.

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Construction Bidder 1 = \$1,771,780.41

Construction Bidder 2 = \$1,799,650.00

Construction Bidder 3 = \$1,925,404.79

Bid Award Date: 11/16/2018

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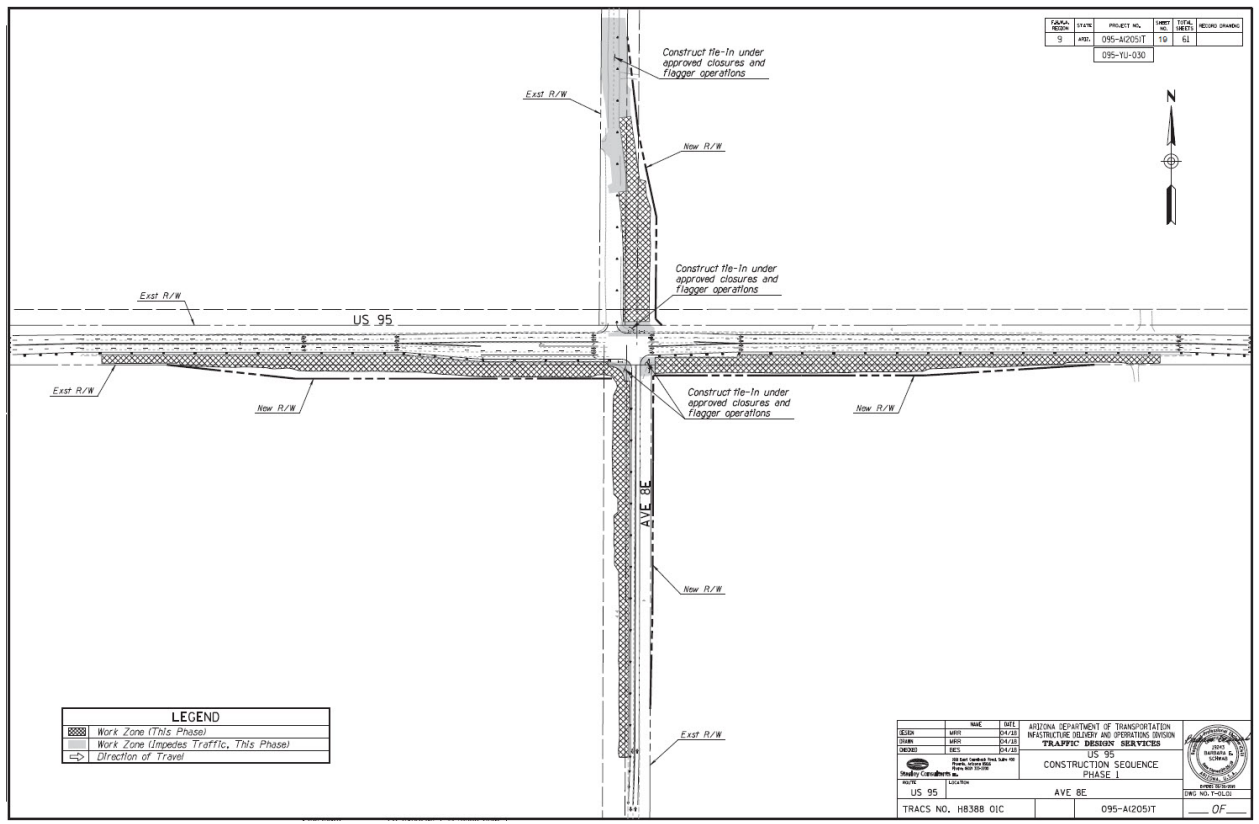
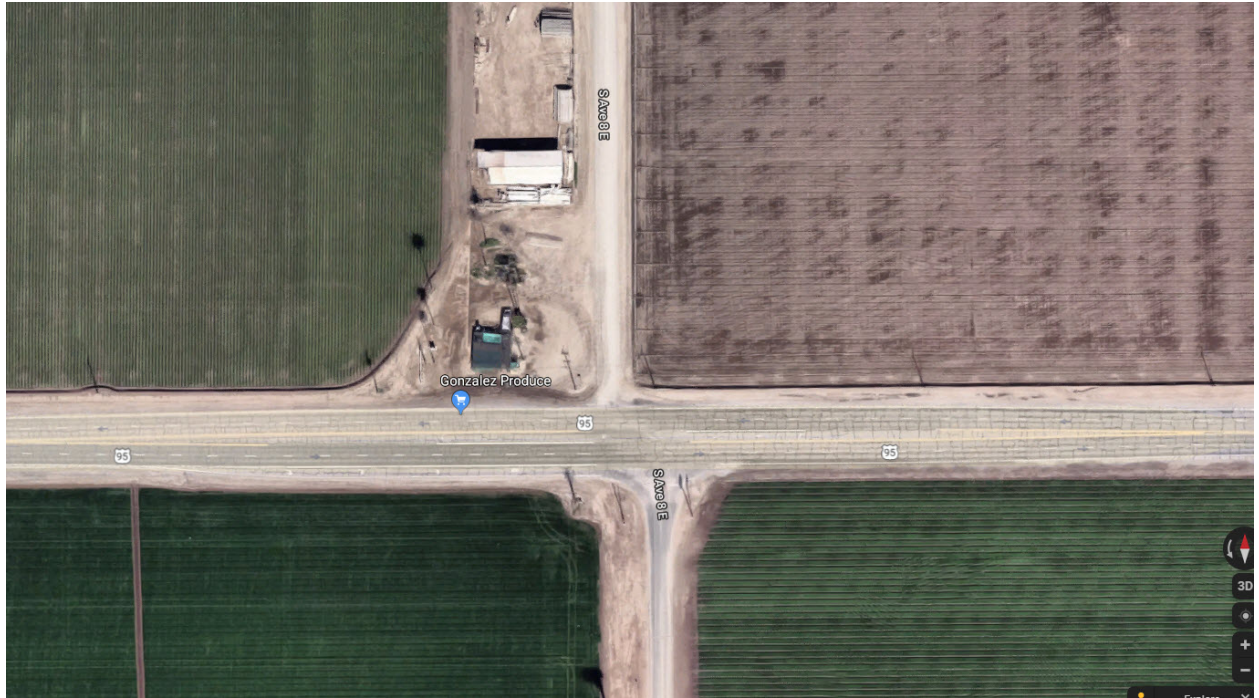
Design Cost: \$1,287,165.00

ADOT Admin/Indirect Costs: \$763,545.59

Construction Budget: \$2,209,137.00

**Total Project Cost: \$4,259,847.59**

Construction Complete: 11/08/2019



Countermeasure: Traffic Signal and Median Modification

H8838 – SR 87 & Ruins Dr., Intersection Improvements

Scope of Work: The project was located in Pinal County, on State Route 87 at Ruins Drive between Milepost 134.10 and Milepost 134.31 within the City of Coolidge. The work consisted of installing new traffic signal equipment, median modifications, signing, pavement marking, and other related work.

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Construction Bidder 1 = \$626,032.10

Construction Bidder 2 = \$0.00

Construction Bidder 3 = \$0.00

Bid Award Date: 1/18/2019

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Design Cost: \$304,971.00

Indirect Charges: \$ 94,058.00

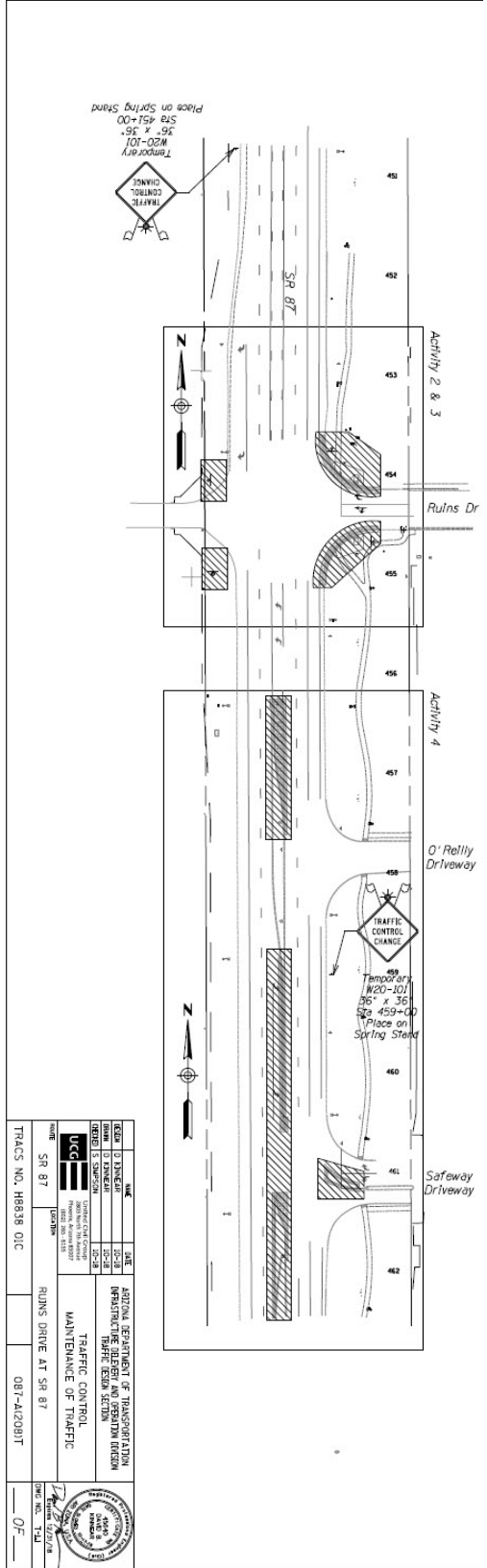
Construction Budget: \$764,052.00

**Total Project Cost: \$1,163,081.00**

Construction Complete: 10/07/2019







PROJECT NO.	SR 87	LOCATION	RUNDS DRIVE AT SR 87
DATE	07/17/14	SCALE	AS SHOWN
DESIGNED BY	TRC	CHECKED BY	TRC
DRAWN BY	TRC	DATE	07/17/14
ARIZONA DEPARTMENT OF TRANSPORTATION OPERATIVE DIVISION TRAFFIC DESIGN SECTION TRAFFIC CONTROL MAINTENANCE OF TRAFFIC			
TRACS NO. H8838 OIC		OBT-AIC091T	
DATE: 07/17/14		SHEET NO. 7-14	

## **Roadway Segment Improvements:**

Countermeasure: Roadway Lighting

H6695 – US 160, MP 319.94 to MP 322.49

Scope of Work: The proposed work was located in Coconino county on US 160 between MP 319.94 and MP 322.49 and on SR 264 between MP 321.95 and MP 322.81. These segments of US 160 and SR 264 are located within the communities of Tuba City and Moenkopi, and within the Navajo Nation and Hopi Tribal lands, respectively. The proposed work included installation of luminaire poles, foundations, breakaway bases, mast arms, electrical conduit, pull boxes, conductors, luminaires, load center cabinets and other related items.

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Construction Bidder 1 = \$630,337.64

Construction Bidder 2 = \$709,872.00

Construction Bidder 3 = \$781,625.70

Bid Award Date: 9/01/2010

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Design Cost: \$187,760.00

ADOT Review and Delivery Fees: \$24,211.00

Indirect Cost: \$35,187.00

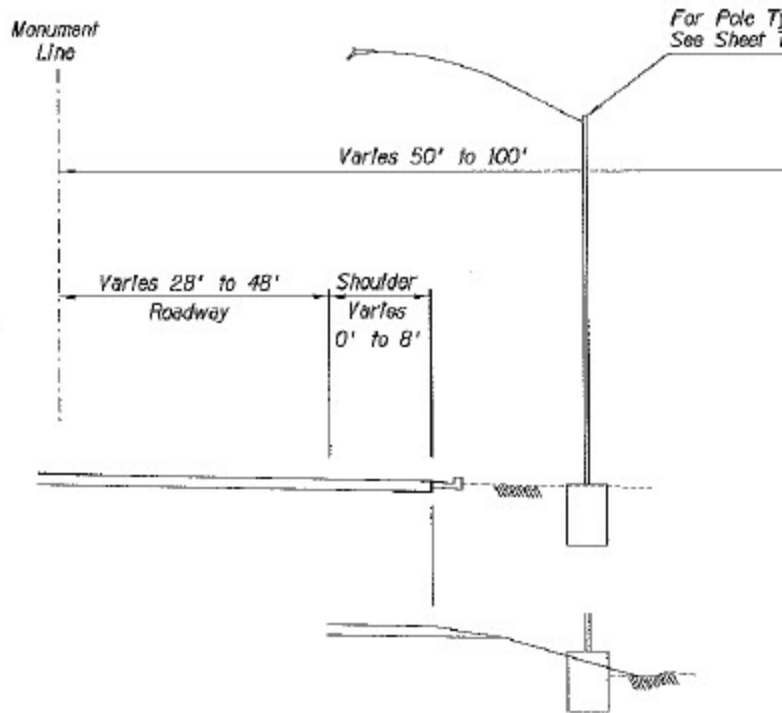
Construction Budget: \$863,218.00

**Total Project Cost: \$1,110,376.00**

Construction Compete: 8/12/2011







SR 264 TYPICAL SECTION  
Sta 1+25.00 to 48+00.00

g

Countermeasure: Pavement Markings & Rumble Strips (3 Projects)

**F0018**– US 60, US 95 & SR74 Safety Improvements

Scope of Work: The proposed work for project was located in Yuma, La Paz and Maricopa Counties on US 95, US 60 and SR 74. The proposed work consisted of the installation of pavement marking, ground-in 6” rumble strips, fog coat, blotter material along the edge line and centerlines of the highways and other related work.

Total Gross Length = 80.13 miles

Total Net Length = 56.25

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Construction Bidder 1 = \$847,250.00

Construction Bidder 2 = \$1,066,239.06

Bid Award Date: 12/16/2016

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Design Cost: Unk

Construction Budget: \$600,296.00

**Total Project Cost: Unk**

Construction Compete: 5/01/2017

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**F0019** – Southeast District, Various Locations, Roadway Improvements

Scope of Work: The proposed work for project is located in Cochise, Gila, Graham, and Greenlee Counties on US 60, US 70, SR 77, SR 80, SR 186, SR 188, and US 191. A portion of the project on US 70 is located within San Carlos Indian Reservation. The proposed work consists of the installation of ground-in 6” rumble strips, pavement marking, fog coat and blotter material along the shoulders and centerlines of the highways including providing traffic control and other related work.

Total Gross Length = 861,696’ = 161.1 miles

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Construction Bidder 1 = \$1,271,316.22

Construction Bidder 2 = \$1,494,616.82

Construction Bidder 3 = \$1,552,501.40

Bid Award Date: 7/20/2018

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Design Cost: Unk

Construction Budget: \$1,689,444.00

**Total Project Cost: Unk**

Construction Compete: 7/10/2019

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**F0020 – Southcentral & Central Districts, Various Locations, Roadway Improvements**

Scope of Work: The proposed work for project is located at various locations in Southcentral and Central Districts on eight state routes within Maricopa County SR 238, SR 84, SR 87, Pima County SR 86, SR 82, SR 83, Pinal County SR 77, and Cochise County SR 80. The work consists of installing pavement marking, rumble strips, applying a fog coat, and restriping the areas where the rumble strips were installed with permanent paint and thermoplastic and other related work.

Total Gross Length = 369,230' = 69.93 miles (8" & 6")

Total 8" Rumble Strip Length = 53,117' = 10.05 miles

Total 6" Rumble Strip Length = 316,114' = 59.87 miles

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Construction Bidder 1 = \$408,587.15

Construction Bidder 2 = \$443,157.18

Bid Award Date: 11/17/2017

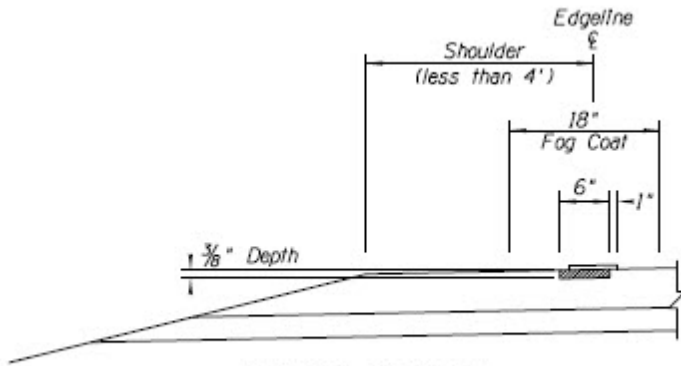
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Design Cost: Unk

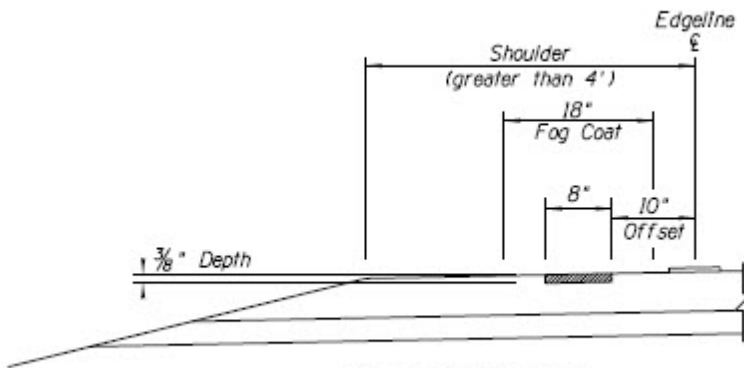
Construction Budget: \$551,035.00

**Total Project Cost: Unk**

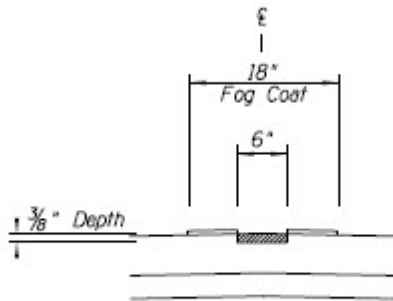
Construction Compete: 5/07/2018



TYPICAL SECTION  
Shoulder Rumble Strip - Edgeline



TYPICAL SECTION  
Shoulder Rumble Strip - Offset



TYPICAL SECTION  
▲ Centerline Rumble Strip



Countermeasure: Raised Median with Left-Turn Lanes and Traffic Signal

F0061 – SR 69, MP 283.51 to MP 287.27, Fain Rd to Navajo Dr.

Scope of Work: The proposed work was located in Yavapai County, Prescott Valley, on State Route 69 between Truwood Drive and Fain Road. Work limits were approximately MP 283.51 (Fain Rd) and approximately MP 287.27 (Navajo Dr.). Work consisted of constructing a raised median with vertical curb or barrier beginning approximately 725 feet northwest of Fain Rd. and ending 550 feet southeast of Navajo Dr., constructing drop curb or barrier for left turn lanes at Enterprise Pkwy. and Mendecino Dr., installing drainage conveyance from the westbound lanes to the ditch on the south side of the road at several locations east of Enterprise Pkwy. to Lynx Creek (approximately MP 284.28 to MP 285.0), installing a traffic signal at SR 69 and Mendecino Dr. intersection, installing American with Disabilities Act (ADA) compliant ramps at Mendecino Dr., installing signal interconnect conduit on the north side of the road between Mendecino Dr. and Navajo Dr., installing a multi-use path on the north side of the road between Truwood Dr. (approximately MP 286.91 to MP 287.26) and Navajo Dr., installing rock mulch, pavers, or stamped concrete ground cover in roadway median, installing landscaping outside of roadway clear zone from Navajo Dr. to 750 feet east of Truwood Dr. and removing and/or prune roadside vegetation.

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Construction Bidder 1 = \$1,849,611.68

Construction Bidder 2 = \$0.00

Construction Bidder 3 = \$0.00

Bid Award Date: 9/20/2019

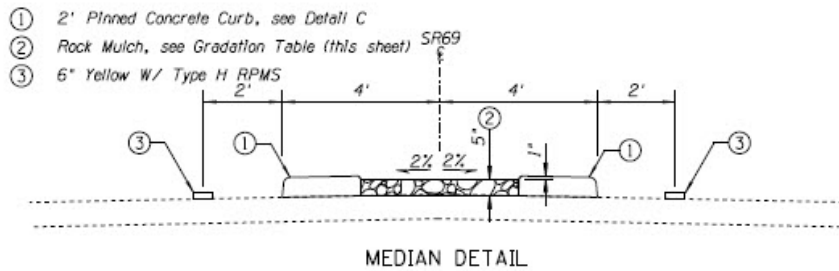
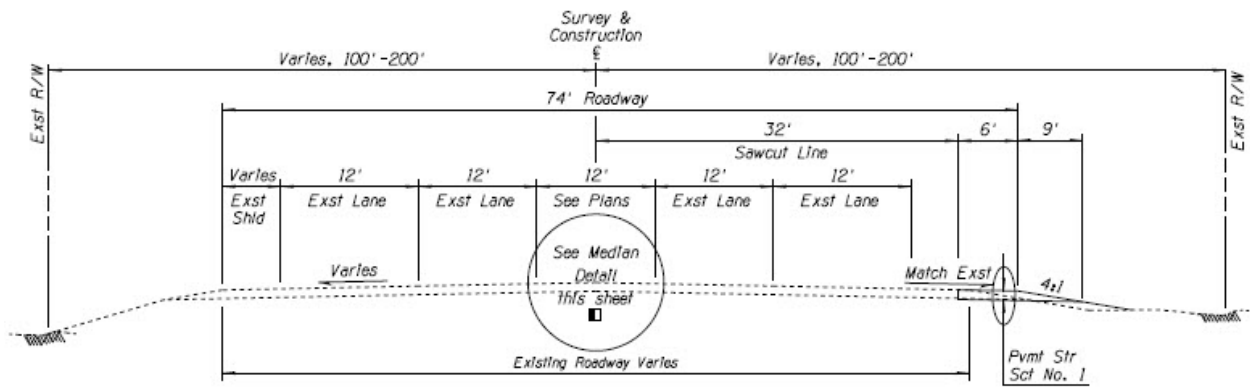
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Design and ADOT Costs for Review and Delivery Costs: \$352,652.00

Construction Budget: \$2,435,486.00

**Total Project Cost: \$2,788,138.00**

Construction Compete: N/A





Countermeasure: Shoulders & Rumble Strips

H8408 – US 93, MP 17.35 to MP 28.09, (Willow Beach to White Hills Road) Roadway Improvements

Scope of Work: The proposed project was located on US 93 in the Northwest District (formerly referred to as both Kingman and Prescott Districts), Mohave County approximately 60 miles south of Las Vegas, Nevada, and 22 miles north of Kingman, Arizona. The project limits begin at MP 28.09 and proceeds northwesterly approximately 10 miles to MP 17.35. The work consisted of milling and replacing the existing pavement surface, the project also included roadway excavation for widening of shoulders, drainage pipe and box culvert extensions, pavement marking, traffic control and other related work.

Ground-In Rumble Strip (12 Inch) = 226,954 LFT

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Construction Bidder 1 = \$10,666,098.90

Construction Bidder 2 = \$11,013,396.55

Construction Bidder 3 = \$11,187,615.59

Bid Award Date: 10/21/2016

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Design Cost: \$985,861.00

Indirect Costs: \$1,146,030.00

ADOT Review and Delivery Fees: \$72,306.00

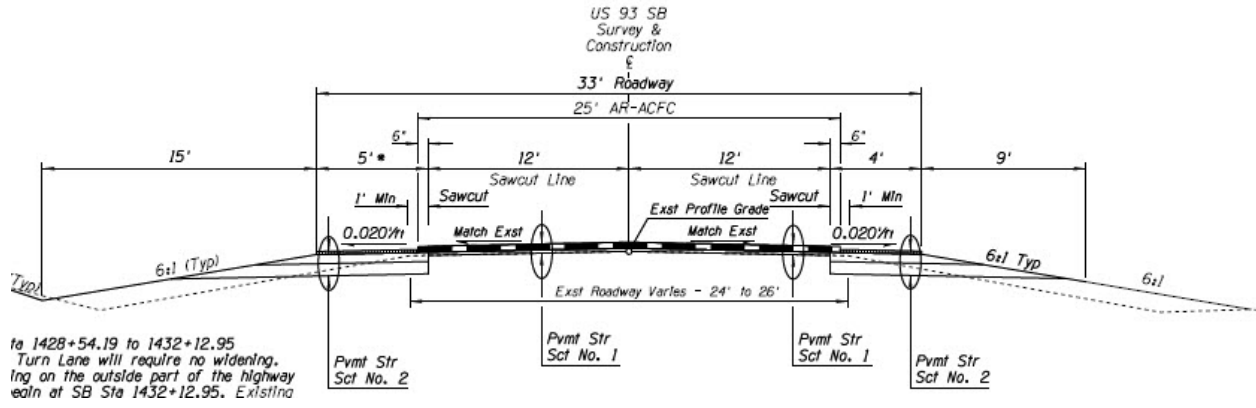
Construction Budget: \$12,103,400.00

**Total Project Cost: \$14,307,597.00**

Construction Complete: 10/30/2017







Countermeasure: Shoulders - 5 Foot

SZ039 – Fountain Hills Blvd, Segundo Drive to Pinto Drive, Roadway Improvements

Scope of Work: The proposed project was located in Town of Fountain Hills Right-of-way (ROW) in Maricopa County. The limits were 1.4 miles of Fountain Hills Boulevard, between Segundo Drive and Pinto Drive. The scope of work included saw cutting existing pavement and add new shoulder pavement on both sides of Fountain Hills Boulevard, providing required striping at the new roadway shoulder, providing a northbound right-turn pocket on Fountain Hills Boulevard at the Trevino Drive intersection, Upgrading the shoulder pavement cross-section to accommodate future turn pocket improvements at various locations, relocating existing encroaching facilities, such as fire hydrant, phones as required, constructing new roadway ditch and modifying existing drainage facilities, and constructing cut off walls.

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Construction Bidder 1 = \$880,000.00

Construction Bidder 2 = \$0.00

Construction Bidder 3 = \$0.00

Bid Award Date: 2/15/2019

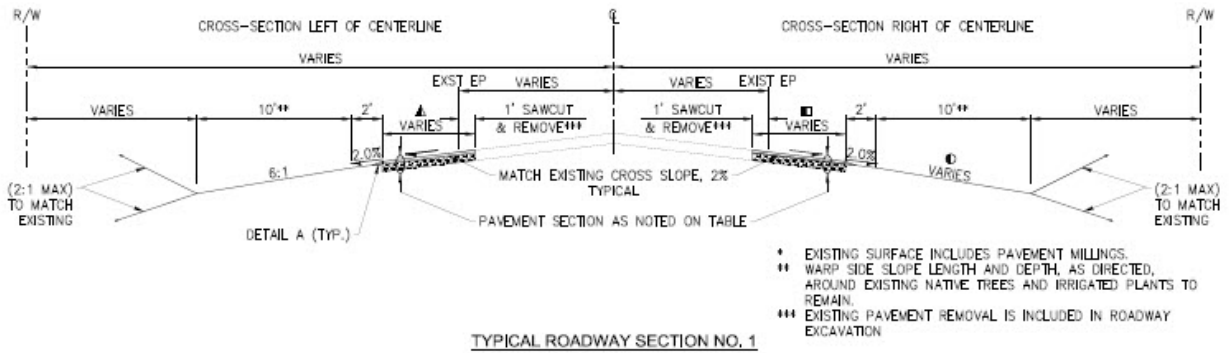
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Design Cost: \$35,774.00

Construction Budget: \$1,210,000.00

**Total Project Cost: \$1,245,774.00**

Construction Compete: Not closed out



Countermeasure: Shoulders - 10 Foot

SZ111 – City of Peoria, Lake Pleasant Parkway, SR 303L to SR 74, Roadway Improvements

Scope of Work: The proposed project was located in the city of Peoria Right-of-way (ROW) in Maricopa County. The limits were 1.99 miles of Lake Pleasant Parkway between State Route (SR) 303 Loop (SR 303L) on the south and SR 74 on the north. The scope of work included saw cutting existing pavement and add new 10 foot wide shoulder pavement on both sides of Lake Pleasant Blvd, providing required striping at the new roadway shoulder, constructing new roadway ditch and modifying existing drainage facilities, and relocating existing signs.

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Construction Bidder 1 = \$691,421.50

Construction Bidder 2 = \$693,333.33

Construction Bidder 3 = \$848,282.15

Bid Award Date: 9/18/2015

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Design Cost: \$103,259.00

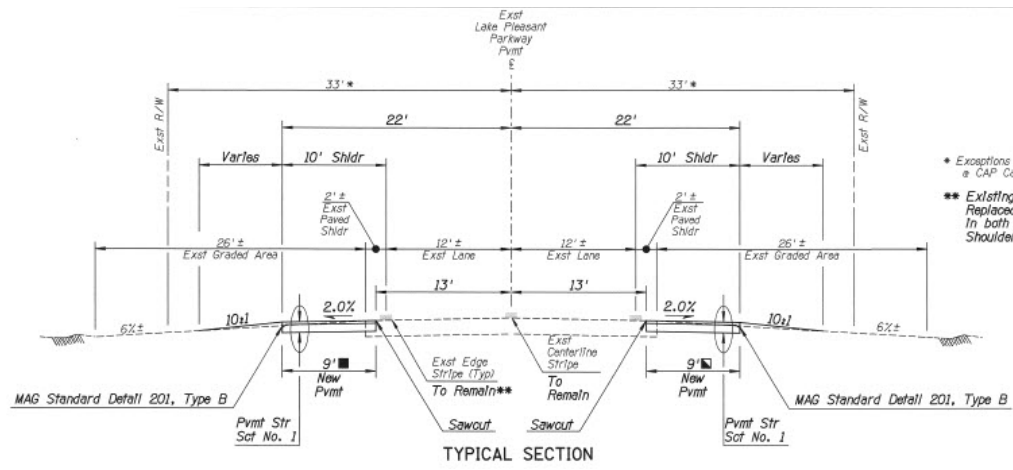
Construction Budget: \$730,545.00

**Total Project Cost: \$833,804.00**

Construction Compete: 1/21/2016



TAXA	STATE	PROJECT NO.	SR
9	MAZ.	PEO-02200T	1
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- \* Exceptions (See Plan Sheets):
  - a CAP Canal, Sta 525+04 to Sta 542+90
- \*\* Existing Edge Stripe to be Removed and Replaced from Sta 608+00 to Sta 615+50 In both directions, as necessary to Complete Shoulder Widening.

Countermeasure: Shoulder Widening & Rumble Strips – Various Widths

H8256 – SR 260, Cheney Ranch Loop to Bison Rd (approx. 3.01 miles gross)(net length 0.95 miles)

Scope of Work: The project was located in Navajo County, on State Route 260 between Cheney Ranch Loop and Bison Ridge Trail, Milepost 134.10 to Milepost 134.31. The work included widening the roadway to provide paved shoulders varying in width between 3.6 feet and 6 feet, providing ground-in rumble strips for the length of the project, excluding turn lanes and turnouts, flattening side slopes, where needed, installing or updating guardrail, restriping the roadway, removing existing signs and providing new signing, installing new flexible delineators, removing trees within the recovery area with trunks larger than 4 inches in diameter and seeding all disturbed areas.

Segment A: MP 334.44 to MP 334.88 (Widen both sides)

Segment B: MP 335.19 to MP 335.38 (Widen both sides)

Segment C: MP 336.69 to MP 336.89 (Widen both sides)

Segment D: MP 337.35 to MP 337.48 (Widen west-bound direction only)

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Construction Bidder 1 = \$979,028.00

Construction Bidder 2 = \$1,047,830.39

Construction Bidder 3 = \$1,063,377.50

Bid Award Date: 3/18/2016

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Design Cost: \$259,221.00

Indirect Costs: \$123,791.00

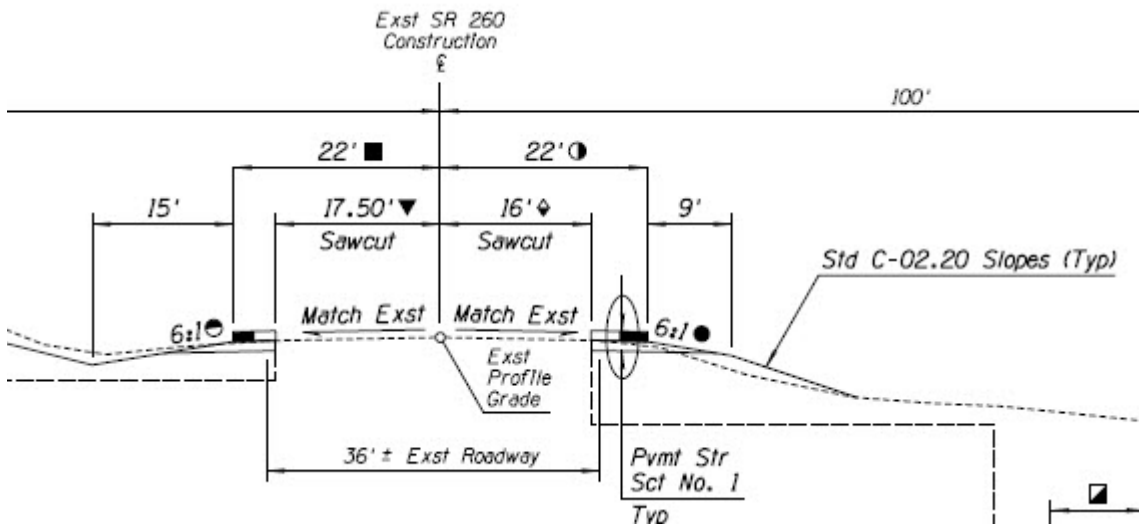
ADOT Review and Delivery Fees: \$39,476.00

Construction Budget: \$1,071,435.00

**Total Project Cost: \$1,493,923.00**

Construction Compete: 11/07/2016







Countermeasure: Two-Way Left Turn Lane

H8859 – US 70 & San Carlos High School, Roadway Improvements

Scope of Work: The work was located in Gila County on US 70, approximately 20 miles east of the City of Globe, between mileposts 270.38 and 271.24. The work consists of widening US 70 to accommodate a 2-way left turn lane. The work also includes milling  $\frac{1}{2}$ " of existing asphaltic concrete and replacing is with asphaltic concrete friction course. Additional work includes replacing the existing pavement marking, signing, and other miscellaneous work.

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Construction Bidder 1 = \$ 856,168.15

Construction Bidder 2 = \$863,642.10

Bid Award Date: 11/17/2017

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Design Cost: \$ 148,080.00

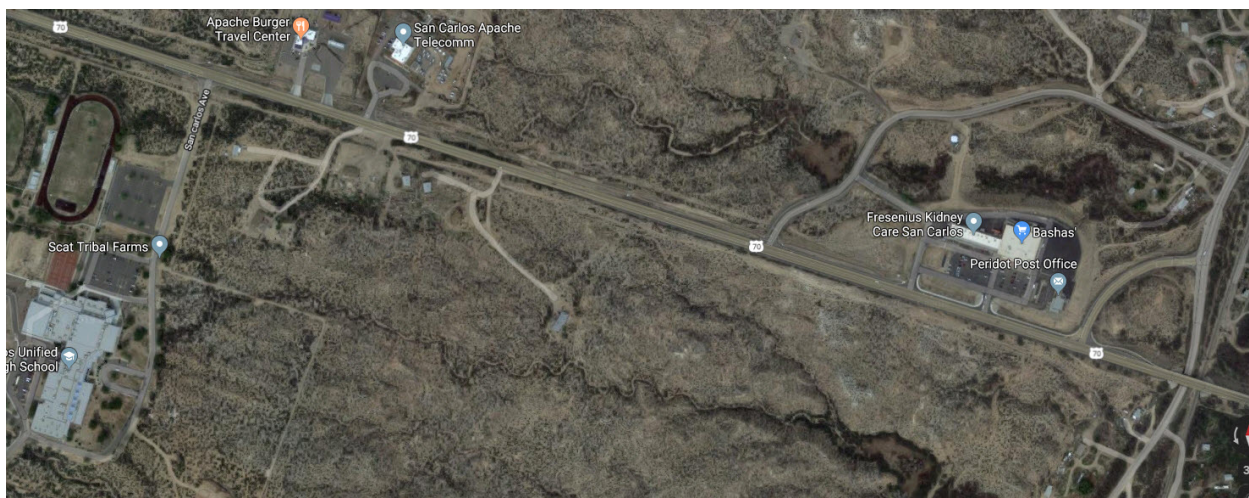
Utility Relocation: \$ 23,156.00

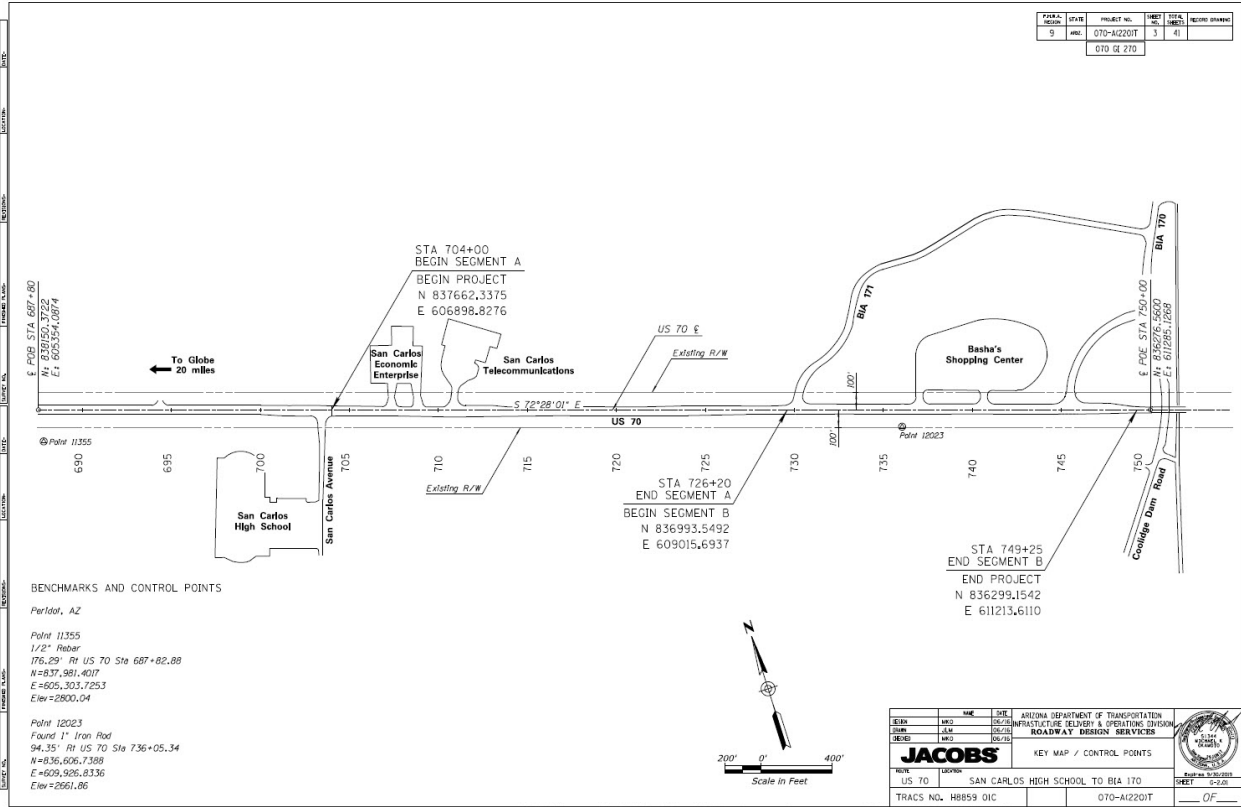
Indirect Charges: \$ 111,937.00

Construction Budget: \$1,032,402.00

**Total Project Cost: \$1,315,575.00**

Construction Complete: 5/03/2018





## **Non-Motorized Improvements:**

Countermeasure: Pedestrian Hybrid Beacon (HAWK)

T0032 – 8<sup>th</sup> St & 21<sup>st</sup> Ave, Yuma, Pedestrian Improvements

Scope of Work: The proposed work was located in Yuma County on 8th Street in the City of Yuma, beginning at the intersection with Almond Avenue and extending to the 21st Avenue intersection. The work consists of installation of hybrid pedestrian beacon and other related work.

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Construction Bidder 1 = \$177,616.00

Construction Bidder 2 = \$0.00

Construction Bidder 3 = \$0.00

Bid Award Date: 3/16/2018

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Design Cost: \$108,981.00

Construction Budget: \$214,640.00

**Total Project Cost: \$323,621.00**

Construction Complete: 11/08/2018







Countermeasure: HAWK with Pedestrian Bridge

H8285 – Pedestrian Improvements

Scope of Work: The project was located in Pima County on SR 86 in Sells near the Baboquivari Middle School , MP 114.9 to MP 115.1. The work included construction of a Pedestrian Hybrid Beacon (PHB) on SR 86, a pedestrian bridge, a multi-use path, pavement marking, signing, lighting and other miscellaneous work.

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Construction Bidder 1 = \$820,104.00

Construction Bidder 2 = \$838,642.00

Construction Bidder 3 = \$972,151.00

Bid Award Date: 9/18/2015

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Design Cost: \$388,537.00

Indirect Charges: \$119,529.00

Construction Budget: \$834,419.00

**Total Project Cost: \$2,422,485.00**

Construction Complete: 7/27/2016







Countermeasure: HAWK with ADA Ramp Improvements

H8612 – Pedestrian Improvements

Scope of Work: The project was located in Mohave County on US 66 in Kingman at the intersection of West Andy Devine Avenue (Historic Route 66) and North First Street. The work included construction of a Pedestrian Hybrid Beacon (PHB) on US 66, updating existing curb ramps to current ADA standards and installing new curb ramps, improving drainage at Andy Devine Avenue and First Street for curb and gutter installation, reconstructing existing catch basin, providing curb, sidewalk and raised median, signing and striping and directional drilling for electrical connections.

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Construction Bidder 1 = \$230,259.65

Construction Bidder 2 = \$241,282.40

Construction Bidder 3 = \$242,269.00

Bid Award Date: 3/18/2016

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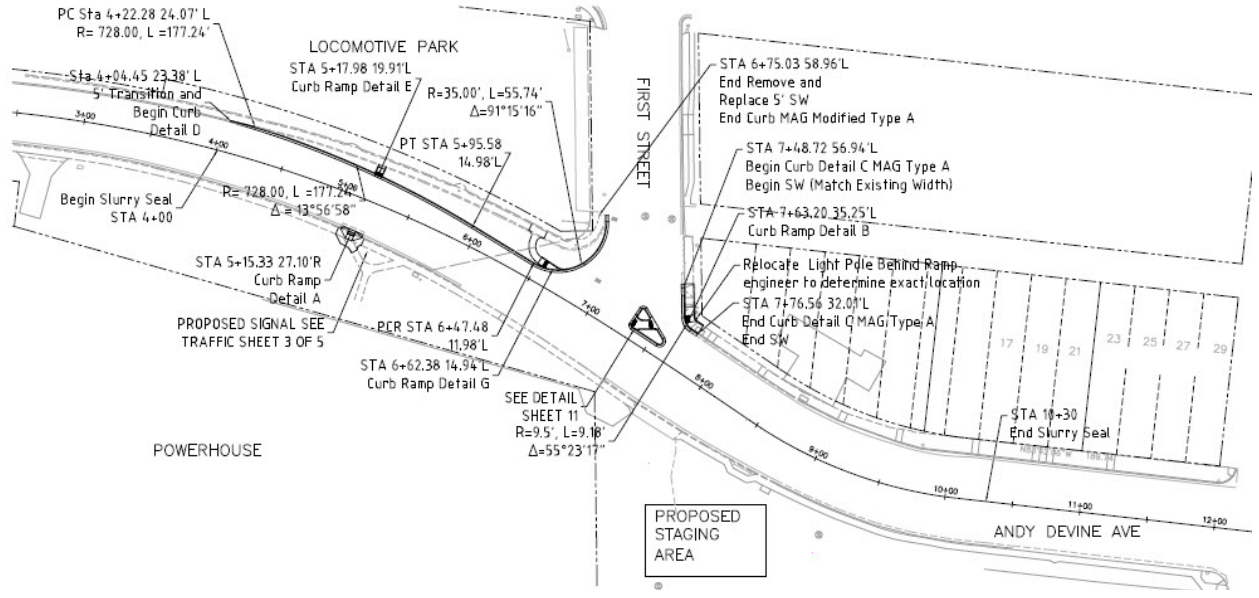
Design and ADOT Review and Delivery Fees: \$63,298.00

Construction Budget: \$319,149.00

**Total Project Cost: \$382,447.00**

Construction Complete: 10/21/2016





Countermeasure: Multi-Use Pathway

SL619 – Grand Canal, Loop 101 & N. 107<sup>th</sup> Avenue (New River)

Scope of Work: The proposed work was located in Maricopa County within the City of Glendale, along the Grand Canal, beginning at 107<sup>th</sup> Avenue alignment extending to the 103<sup>rd</sup> Avenue alignment. The work resumed at 99<sup>th</sup> Avenue and continued to east of the Loop 101 northbound on-ramp. The work consisted of constructing approximately 4600 feet of new concrete multi-use pathway. The work also included landscaping and other related work.

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Construction Bidder 1 = \$557,940.00

Construction Bidder 2 = \$595,000.00

Construction Bidder 3 = \$647,985.00

Bid Award Date: 3/18/2016

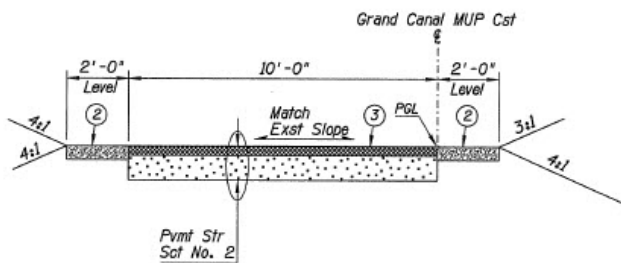
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Design Cost Including ADOT Review and Delivery Fees: \$298,932.00

Construction Budget: \$664,841.00

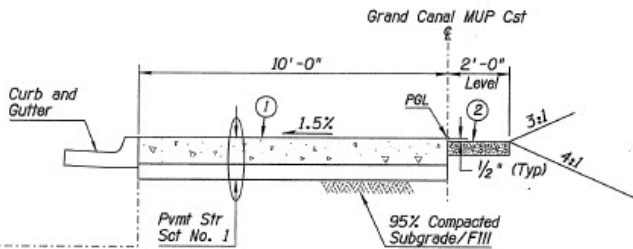
**Total Project Cost: \$963,773.00**

Construction Compete: 4/3/2017



**TYPICAL SECTION**

Grand Canal MUP Sta 40+00.00 to Sta 40+16.49



FEDERAL REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	ARIZ.	CM TEA SLN-02030	4	63
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**CONSTRUCTION NOTES**

- ① Shared-Use Path (6" Thick) Class 'B' Concrete Per ADOT Section 1006. See DWG No. G-2.1
- ② 2" Min Decomposed Granite Compacted to 95% Standard Proctor
- ③ Shared-Use Path (3" Thick) AC Overlay See DWG No. G-2.1.

Countermeasure: Multi-Use Pathway

SL688 – Gold Canyon, Parallel to Kings Ranch Road

Scope of Work: The proposed work was located in Gold Canyon, Pinal County, east of US 60 beside Kings Ranch Road. The proposed work consisted of constructing a new concrete shared-use path, approx 38,770 SF. Additional work included installing decomposed granite, constructing sidewalk ramps, extending storm drain pipe, constructing retaining wall and other miscellaneous work.

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Construction Bidder 1 = \$325,000.00

Construction Bidder 2 = \$344,000.00

Construction Bidder 3 = \$381,577.10

Bid Award Date: 8/08/2014

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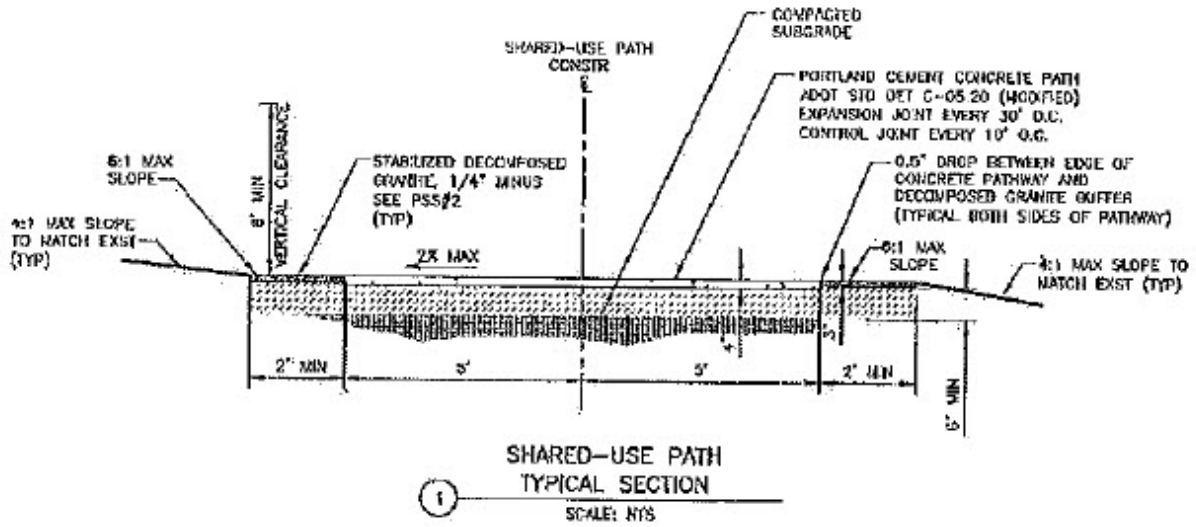
Design Cost Including ADOT Review and Delivery Fees: \$38,514.00

Construction Budget: \$447,650.00

**Total Project Cost: \$486,164.00**

Construction Compete: 12/24/2014







Countermeasure: Sidewalk

T0069 – Camelback Road, 79<sup>th</sup> Avenue to 83<sup>rd</sup> Avenue, Sidewalk

Scope of Work: The proposed work was located in Maricopa County within the City of Glendale along Camelback Road. The approximate total length of the work was 0.53 miles. The work consisted of providing continuous sidewalk along the north side of Camelback Road and upgrading all non-compliant sidewalk ramps to meet Public Right-of-Way Accessibility Guidelines (PROWAG) and ADA Accessibility Guidelines (ADAAG). The work included removal of concrete sidewalk, sidewalk ramps, curb, curb and gutter, curb and gutter transitions, pavement markings, asphaltic concrete and aggregate base, furnishing and placing new sidewalk, sidewalk ramps, curb, curb and gutter, curb and gutter transitions, asphaltic concrete and aggregate base, pavement marking and other related work.

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Construction Bidder 1 = \$261,000.00

Construction Bidder 2 = \$267,137.75

Construction Bidder 3 = \$359,987.13

Bid Award Date: 6/15/2018

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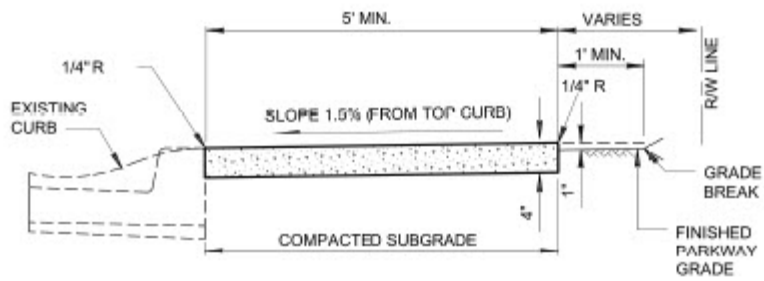
Design Cost Including ADOT Review and Delivery Fees: \$130,884.00

Construction Budget: \$313,090.00

**Total Project Cost: \$443,974.00**

Construction Complete: 10/25/2018





Countermeasure: Sidewalk & ADA Ramps

H8643 – SR 347, Bowlin Rd to Juan St, City of Maricopa

Scope of Work: The proposed work was located in Pinal County through the City of Maricopa along the west side of State Route 347. The approximate total length of the work was 0.50 miles. The work consisted of constructing a five-foot-wide 2,800 linear foot concrete sidewalk, adjacent to the existing roadway curb, upgrading existing ramps that are not American with Disabilities Act to ADA standards, installing safety railings across the existing scupper locations on existing metal bases, installing two additional foundation pads for safety rails at each scupper, removal and replacement of existing signage and other related work.

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Construction Bidder 1 = \$175,301.50

Construction Bidder 2 = \$187,171.55

Construction Bidder 3 = \$197,084.10

Bid Award Date: 9/18/2015

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Design Cost Including ADOT Review and Delivery Fees: \$94,997.00

Construction Budget: \$210,362.00

**Total Project Cost: \$305,359.00**

Construction Compete: 12/22/2015



