



MADERA CANYON ROAD

Florida Canyon Wash Bridge Replacement

FEDERAL PROJECT NO. PPM - 0(273)D



PIMA COUNTY BOARD OF SUPERVISORS

JENNIFER ALLEN, CHAIR, DISTRICT 3

DR. MATT HEINZ, VICE CHAIR DISTRICT 2

REX SCOTT, DISTRICT 1

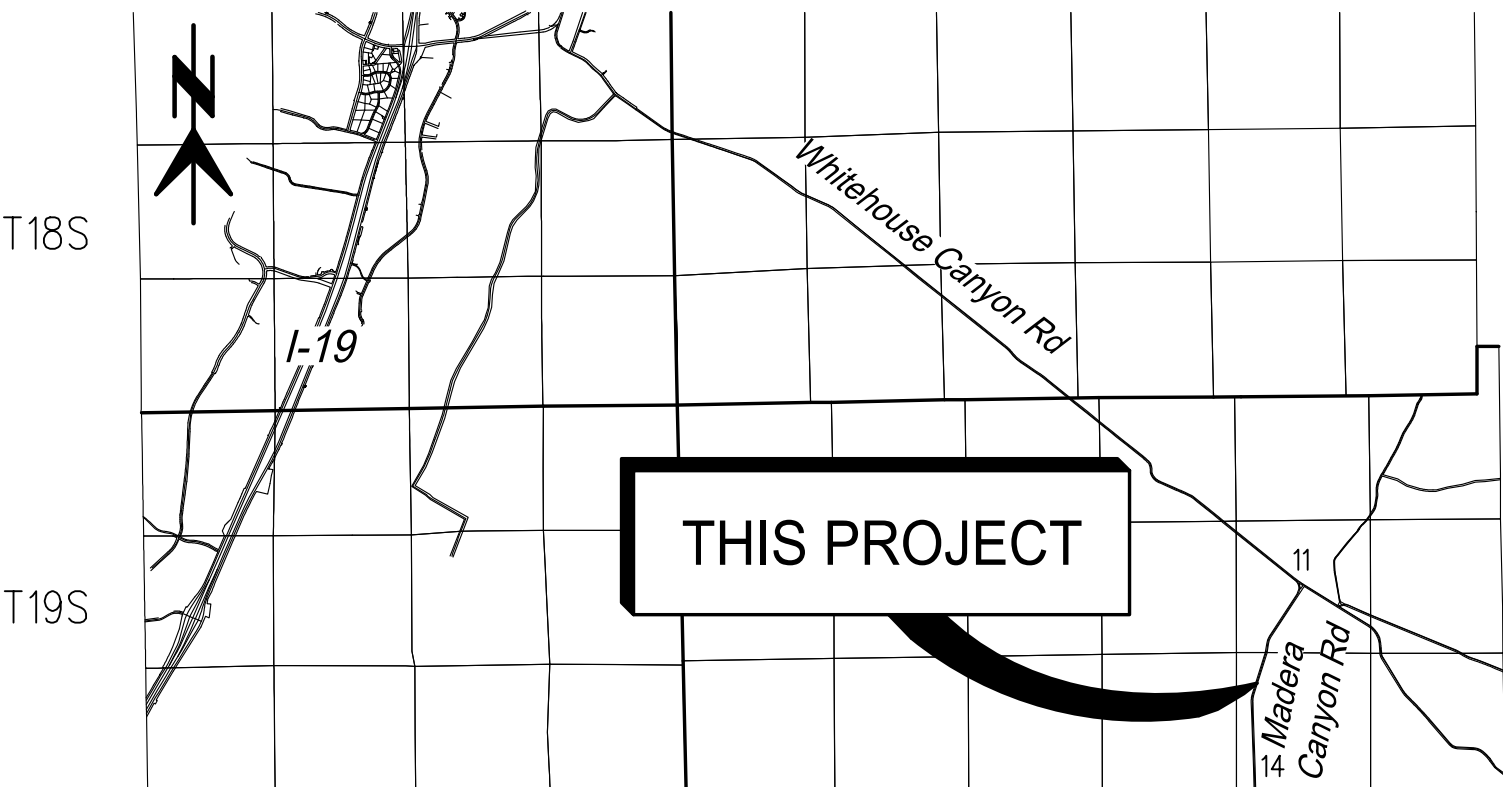
STEVE CHRISTY, DISTRICT 4 ANDRÉS CANO, DISTRICT 5

THIS PROJECT IS LOCATED WITHIN SUPERVISOR DISTRICT 4

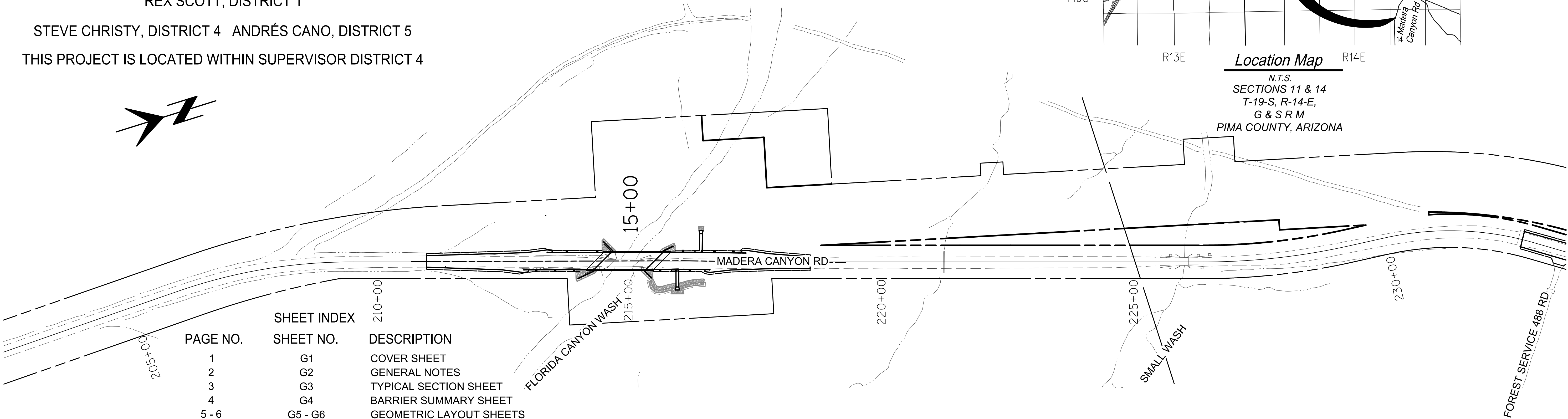
GENERAL DESCRIPTION OF PROJECT

The proposed scope of work for this project includes the removal of existing concrete slab bridge, construction of a new bridge with bank protection, asphalt concrete surface roadway, temporary detour, and other incidental items.

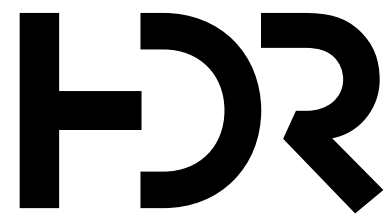
ADOT PROJECT NUMBER T0540
PIMA COUNTY PROJECT NUMBER 24041PJ



Location Map
N.T.S.
SECTIONS 11 & 14
T-19-S, R-14-E,
G & S R M
PIMA COUNTY, ARIZONA



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74 - 80		RW1 - RW7	RIGHT-OF-WAY PLAN SHEETS



No.	Revisions	Engineer	Date
No.	As Built	Engineer	Date



Pima County
Department of Transportation
201 N. Stone Ave. 4th Floor
Tucson, Arizona 85701
Phone Number: 520-724-6410
Kathryn Skinner, P.E., Director

Approved: _____ 20____
Kathryn Skinner, P.E.



GENERAL NOTES

1. Construction shall be in conformance with PAG standards, Pima County Supplemental Specifications and Details listed in the special provisions.
2. Utility locations shown on plans were compiled based on the best information available to the Department, utility locations are not intended to be exact or complete. Prior to commencing construction, the Contractor shall verify the location of all utilities with the appropriate organizations. Contact "Blue Stake" at 1-800-782-5348, two full working days prior to beginning construction (Saturdays and Sundays are not considered working days).
3. Right-of-Way encroachments shall be removed only by order of Pima County, unless noted.
4. Removal of all cacti and native plants shall be in accordance with the provisions of the "Arizona Native Plant Law" LARS, Chapter 7 and Pima County Native Plant Preservation Ordinance Title 18 Chapter 18.72.
5. The Basis of Bearing for this project was derived using the Arizona Coordinate System, North American Datum (NAD) 1983 (1992), Central Zone 0202, in International feet, and observed between Pima County Control Pt. *3663 (BMG #2, a found 3-1/8" brass disk in concrete headwall at the northeast corner of the bridge over Medium Wash) to Pima County Control Pt. *3674 (BMG #3, a found 3-1/8" brass disk in concrete headwall at the northeast corner of the bridge over Florida Canyon Wash). Said basis of bearing = South 19°53'16.3" West. Said bearing established on B.C. Projects 4MCAMW and 4MCAFW and recorded Survey Book 26 Page 10 (SE. 20021010193) at the Pima County Recorder's Office.
6. The Basis of Elevation originated from Pima County bench mark P399 (A found 3-1/2" brass disk in 1" concrete cylinder). Said bench mark is located at the southwest corner of Madalra Canyon Road and White House Canyon Road with an elevation of 3677.62 feet (NAVD-88) (B.C. Projects 4MCAMW and 4MCAFW and recorded Survey Book 26 Page 10 (SE. 20021010193) at the Pima County Recorder's Office.
7. The project surface coordinates are derived from state plane grid values by using the following formulas. A combined scale factor 0.999846886 was used to convert grid coordinates to project surface coordinates. Surface Northing and Easting coordinates are derived by dividing the grid coordinates by 0.999846886 and subtract 200,000 feet from project northing and subtract 1,000,000 feet from project eastings.

	Northing	Easting
"3663" Grid	288,136.2340	1,020,749.1990
Surface	88,180.3644	20,905.5139
"3674" Grid	285,998.5790	1,019,975.8890
Surface	86,042.3761	20,132.0855
8. The Contractor shall maintain access to all driveways, alleys, and mailboxes during construction. The Contractor will not restrict Emergency Vehicles, U.S. Postal Delivery, Solid Waste Collections, and/or access to the adjacent properties, except as approved by the Engineer.
9. Soils Information will be made available to prospective bidders in the geotechnical report. Soils information so provided shall be for information purposes only. This information was developed as accurately as possible by the methods used. Pima County accepts no responsibility for any conditions encountered which vary from the information provided.
10. Existing topographic conditions shown on plan sheets reflect conditions as of August 10, 2000 and were generated by P.C.H.D Projects 4MCAMW and 4MCAFW. Certain missing and match- in areas have been updated with recent verification and supplemental surveys.
11. Omissions or conflicts between various elements of the drawings, notes, and details shall be brought to the attention of the Engineer and resolved before proceeding with the work.
12. All stationing shown on the plans is based upon the centerline as noted, See Geometric Layout Sheets.
13. Existing utilities include, but may not be limited to, overhead and underground electric, communication, and irrigation, and shall be moved by others unless otherwise noted and shown in these plans.
14. The current regulatory posted speed limit is 45 MPH with 25 MPH advisory speeds throughout the length of the project. The design speed is: 45 MPH.
15. The horizontal control and right lines for this project are based upon information provided on this project Right of Way Plan Sheets.
16. The Basis of Stationing for the Existing R/WY Centerline was determined from found centerline point of intersection monuments and their reference markers along with PC DOT alignment study and field notes performed by Walter Burg County Engineer in 1961 project number R-AD-16(4).

17. The Basis of Stationing for the Existing Survey Centerline was determined from found R/W markers established by and according to PCDOT project numbers 4MCAW and 4MCAFW and ADOT project numbers 0000 PM PPM SB405 01C & 0000 PM PPM SB406 01C which was filed as a Record of Survey at the Plima County Recorder's office at Book 26 Pg 10 also known as Sequence 20021010193.

TRAFFIC DATA

<i>Madera Canyon Road</i>	<i>2025 ADT</i> <i>537</i>	<i>2040 ADT</i> <i>740</i>
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LENGTH OF PROJECT

STA. 11+00.00 to STA 18+60.00 = 760' = 0.144 miles

EARTHWORK NOTES

1. For estimating purposes, earthwork quantities assume that all on-site materials are not acceptable for use as pipe bedding, pipe backfill, and structure backfill.
2. For estimating purposes, earthwork quantities assume existing pavement, detour excavation, structural excavation, and pipe excavation are acceptable for use as roadway embankment. Additional testing and processing may be required to meet material specification requirements.
3. Roadway Embankment volume includes riprap along bridge headwalls and roadway embankment fill slopes. For Net Embankment Demand, D50=6" riprap volume of 77 CY is subtracted out of roadway embankment. D50=12" riprap volume of 41 CY is subtracted out of Wash Backfill.
4. Surplus material, 1,600 CY, is to be relocated and stockpiled for a future culvert replacement project on Madera Canyon Road. The stockpiled material shall be placed at the Stockpile Area shown on Geometric Layout Sheet G5 at Existing R/W CL 230+00 left of centerline and shall meet roadway embankment requirements. The work for relocation and placement is incidental to the Florida Canyon Wash Bid Item 2030300 Roadway Excavation, Bid Item 2030300D Roadway Excavation (From Detour), or Structural Excavation from bridge construction as appropriate. The remaining waste shall be removed in accordance with Section 203-3.03(D) of the Standard Specifications.
5. It is anticipated that some excavated material may not meet specification requirements for placement within three feet of the finished subgrade. It is the contractor's responsibility to test and process material as necessary.

EARTHWORK QUANTITIES

Item No.	Item Description	Total
EXCAVATION		
2020029	Removal of Bituminous Pavement	135 C.Y.
2030300	Roadway Excavation (See Note 5)	1,340 C.Y.
2030300D	Roadway Excavation (From Detour, See Note 5)	6,372 C.Y.
	Riprap Excavation	38 C.Y.
2030500	Excavation (Overexcavation & Removal, See Note 5)	358 C.Y.
	Structural Excavation	4,265 C.Y.
	Available Excavation (See Notes 2 & 5)	12,508 C.Y.
	Shrink (10% Of Net Embankment Demand)	856 C.Y.
	Net Available Excavation (See Notes 2 & 5)	11,652 C.Y.
EMBANKMENT		
	Roadway Embankment (See Notes 2 & 3)	3,030 C.Y.
	Detour Embankment	3,589 C.Y.
	Overexcavation Embankment	358 C.Y.
	Ground Compaction (0.1')	418 C.Y.
	Wash Backfill (See Detail R1)	385 C.Y.
9130015	Riprap (Dumped) ($D_{50}=6"$) (See Note 3)	120 C.Y.
9130016	Riprap (Dumped) ($D_{50}=12"$) (See Note 3)	41 C.Y.
	Net Embankment Demand (See Note 3)	8,559 C.Y.
	Stockpile (See Note 4)	1,600 C.Y.
	Waste (See Note 4)	2,349 C.Y.

GENERAL NOTES

Scales	Horiz.: N/A	Sheet G2 of G6	Page 2 of 80
	Vert.: N/A		

c:\pwworking\west01\4025172\00C-03.dgn

Pentable: COTIMA_PLOT03DR.TBL
PlotDriver: 10416569-10FULL-B&W_PDF.plt

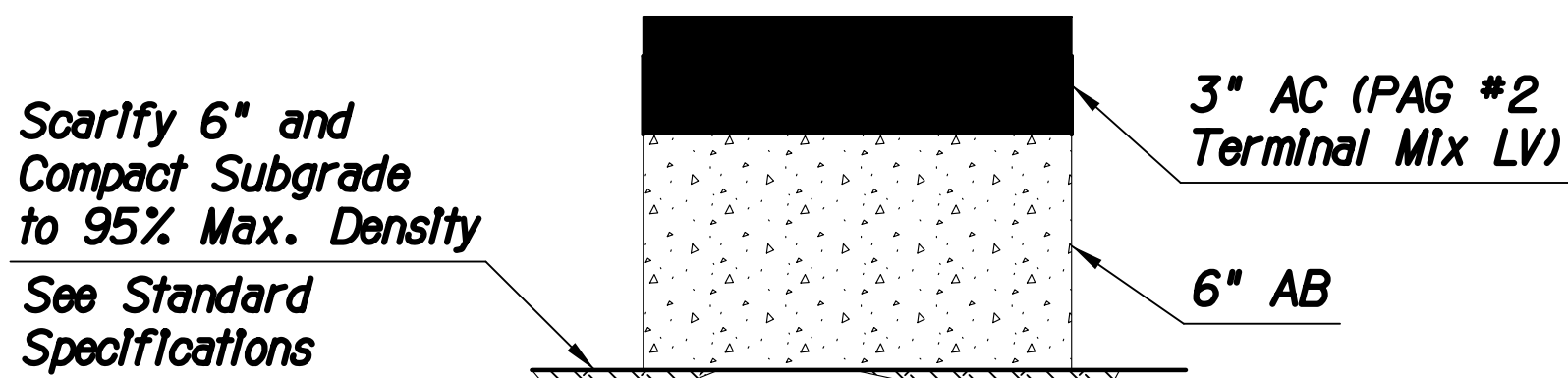
Project ID: 10416569
Client Number: 4106

ABBREVIATIONS NOT INCLUDED
IN PAG STD. DTL. 101

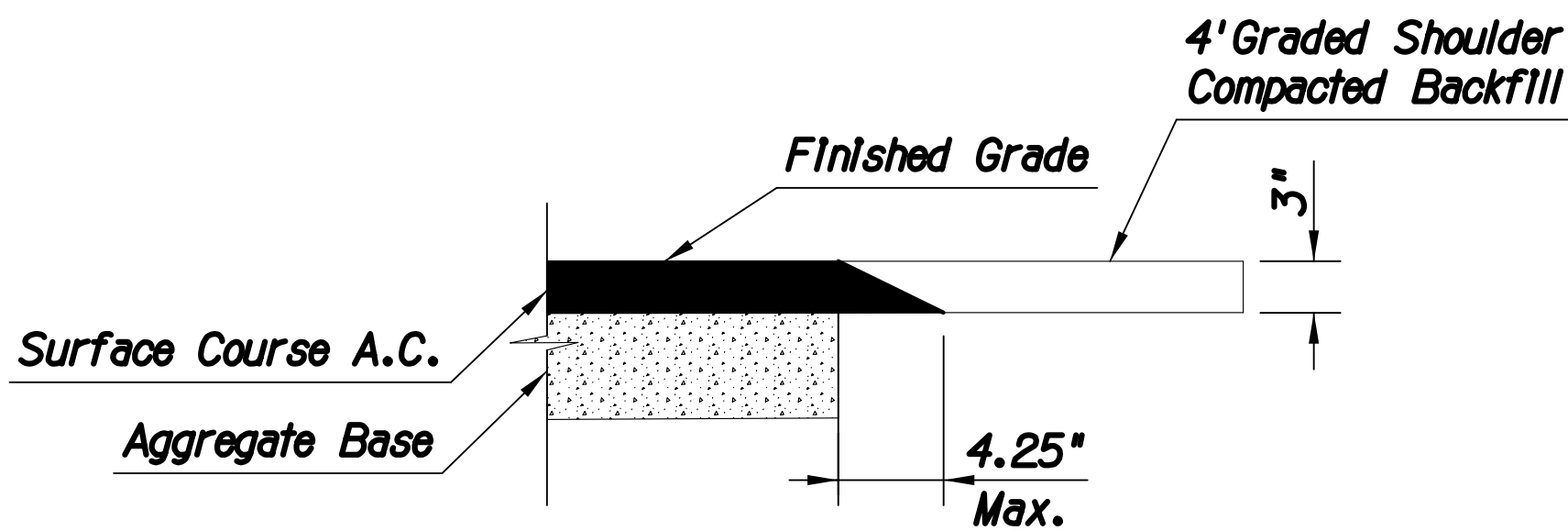
Aluminum Cap on Pipe	A.C.P.
Abandoned	Aband.
Arizona Department of Transportation	ADOT
Control	Ctrl.
Correction	Corr.
Decomposed Granite	D.G.
Detail	Dtl.
Drainage Easement	D.E.
Edge Of Pavement	E.P.
General Land Office	G.L.O.
Intelligent Traffic System	ITS
Median	Med.
Pima Association of Governments	PAG
Point Of Beginning	P.O.B.
Point Of End	P.O.E.
Point of Information	P.O.I.
Raised Pavement Marker	R.P.M.
Shoulder	Shld.
Standard	Std.
Stopping Sight Distance	SSD
Temporary Construction Easement	T.C.E.
Vertical Curve	V.C.

PLAN SYMBOLS NOT INCLUDED
IN PAG STD. DTL. 100

New Barb Wire Game Fence	
New R/W	
Potential Borrow & Staging Area	
Remove Fence	



Pavement Structure No. 1
Madera Canyon Rd Sta. 11+00 to Sta. 18+60
NOT TO SCALE



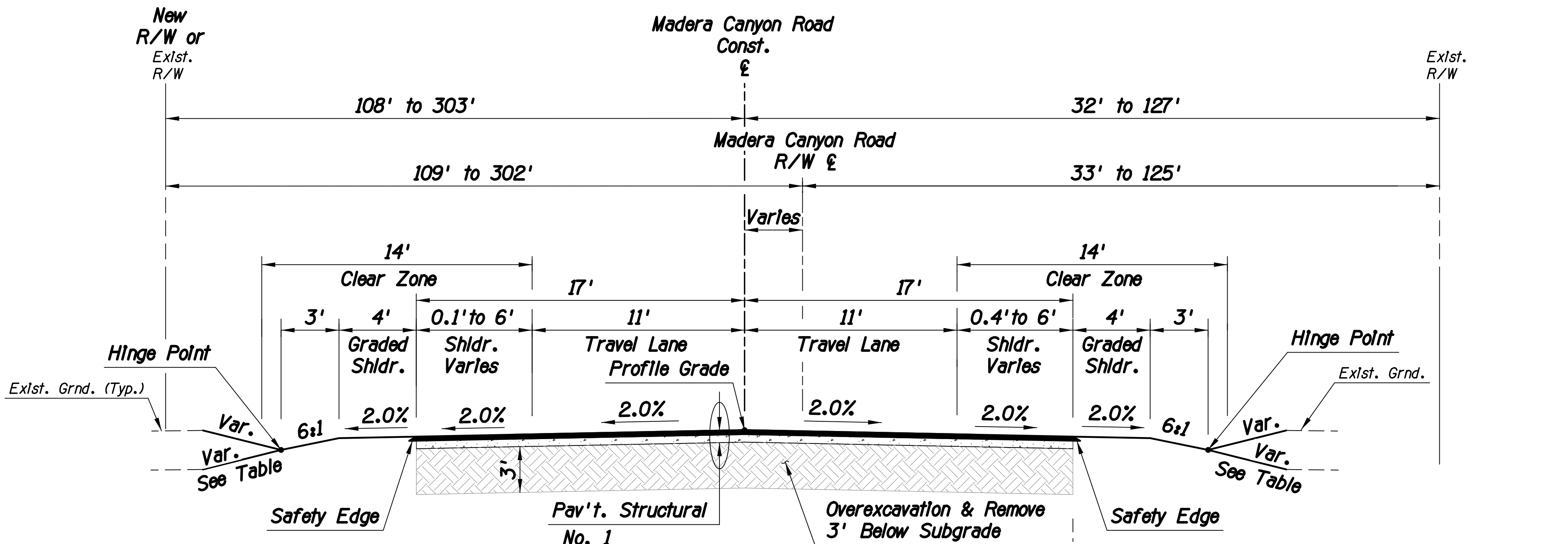
Safety Edge Detail
NOT TO SCALE

FLORIDA CANYON WASH SLOPE TABLE					
LEFT			RIGHT		
Start Sta.	End Sta.	Slope	Start Sta.	End Sta.	Slope
11+00	13+30	4:1 Cut	11+00	12+50	4:1 Cut/Fill
13+35	13+45	3:1 Cut	12+60	13+05	3:1 Cut
13+50	14+35	4:1 Cut/Fill	13+15	13+90	4:1 Cut/Fill
14+50	14+67 (Bridge)	2:1 Fill	14+00	14+30 (Bridge)	2:1 Fill
15+70 (Bridge)	15+90	2:1 Fill	15+33 (Bridge)	15+50	2:1 Fill
16+00	18+60	4:1 Cut/Fill	15+60	18+60	4:1 Cut/Fill

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

CONTACT ARIZONA 811 AT LEAST TWO (2) WORKING DAYS BEFORE YOU BEGIN EXCAVATION

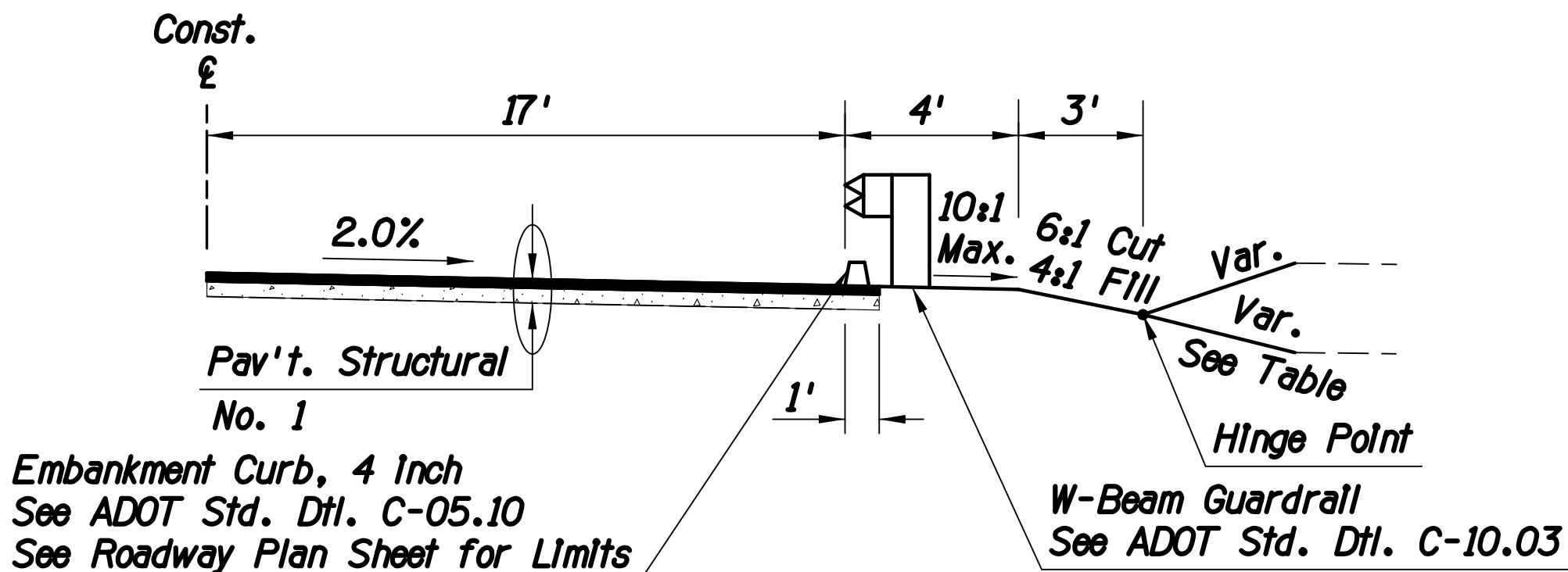
Call 811 or click Arizona811.com



Madera Canyon Road

Sta. 11+00 to Sta. 14+34
Sta. 15+66 to Sta. 18+60
NOT TO SCALE

Note: All Lane Dimensions are Measured from the Center of Lane Line, Center of Double Lane Line, or Edge of Pavement, Unless otherwise noted.
Note: See Bridge Sheets for Bridge Typical Section.
Note: See Roadway Plan Sheets for Pavement (shoulder) taper stationing and widths.



Typical Half-Section @ Guardrail

Symmetric About Const. £
NOT TO SCALE

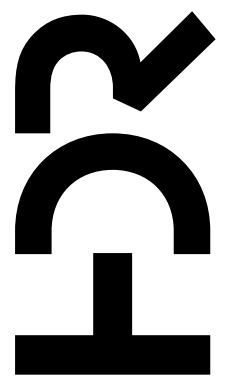
TYPICAL SECTION

Scales	Horiz.: NTS	Sheet G3 of G6	Page 3 of 80
	Vert.: NTS		

Kathryn Skinner, P.E., Director

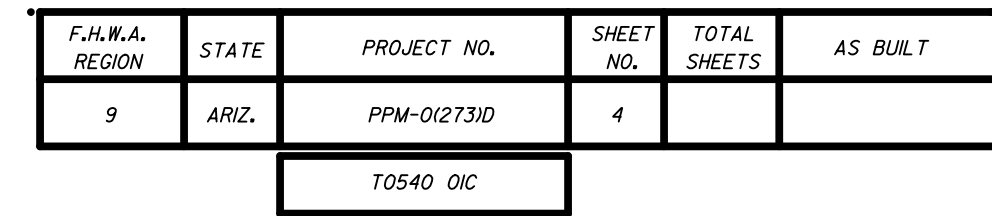
Date	4/2026	4/2026	4/2026
Designed	JAR	JAR	JAR
Drawn	JAR	JAR	JAR
Checked	BAK	BAK	BAK
Proj. Engr.	LIB	LIB	LIB

Date	4/2026	4/2026	4/2026
Engineer	JAR	JAR	JAR
Revision Description			
No.			



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation



THE ZEROS IN PARENTHESES (0.0) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN.

● LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.

 **NOTE: FOR RECORD DRAWING PREPARATION - CIRCLE END TREATMENT INSTALLED.**
 **SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES.**

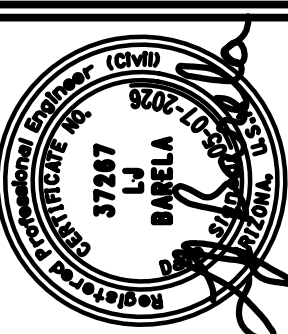
☒ ALLOWABLE END TREATMENT OPTIONS ARE INDICATED WITH THE NUMBER '1' IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES.

☒ ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'.

BARRIER SUMMARY

Scales	Horiz. N/A	Sheet G4 of G6	Page 4 of 80
	Vert. N/A		

Kathryn Skinner, P.E., Director

[illegible]

Pima County Department of Transportation

**MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ**

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

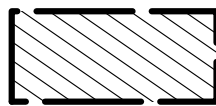
c:\pwworking\west01\d4025172\00C-06.dgn

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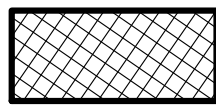
Project ID: 10416569
Client Number: 4106

5/7/2026 11:54:30 AM LBARELA

EXISTING SURVEY CENTERLINE COORDINATE TABLE			
No.	Northling	Eastling	Description
900	85203.4010	19908.9270	Calculated
901	85457.1554	19900.4795	Calculated
903	85703.3460	19962.5506	Calculated
904	87546.3316	20427.2158	Calculated
905	87793.9032	20489.6351	Calculated



TCE Total Combined Area=359,530 Sq.Ft.



New R/W Area=24,689 Sq.Ft.



Future R/W Abandon Area=25,400 Sq.Ft.



Existing R/W Marker, Protect-In-Place Unless Specified Otherwise



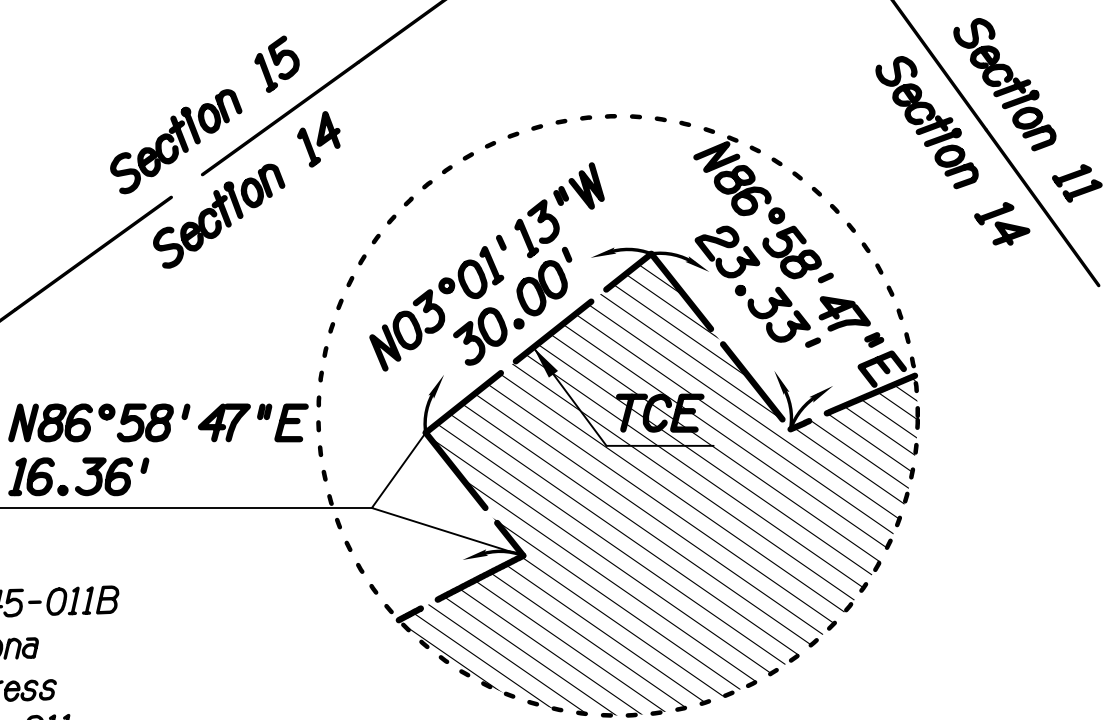
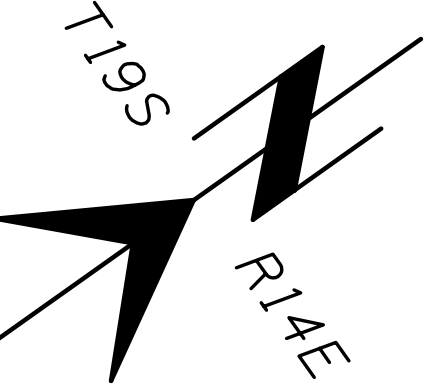
Set R/W Marker, Protect-In-Place Unless Specified Otherwise

A.P.N. 304-45-011B
State of Arizona
No Situs Address
Dkt. 9305 Pg 911

Section Corner
Set 2" Brass Cap on 2" Iron Pipe
Stamped "T19S R14E S10 S11
S15 S14 RLS 80098 2026"

A.P.N. 304-45-011B
State of Arizona
No Situs Address
Dkt. 9305 Pg 911

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540 OIC					



Detail A
N.T.S.

- SI 4 Ea. Survey Monument**
Bld Item 9090002
Reset 1/2"x18" Rebar With RLS Tag
- a 1 Ea.** Madera Canyon Rd. Exlst. Survey & 52+35.00, 97.91' Rt.
- b 1 Ea.** Madera Canyon Rd. Exlst. Survey & 64+69.00, 110.00' Lt.
- c 1 Ea.** Madera Canyon Rd. Exlst. Survey & 65+69.00, 110.00' Lt.
- d 1 Ea.** Madera Canyon Rd. Exlst. Survey & 65+69.00, 60.00' Lt.

Exlst. Survey & P.I. 71+51.07
 $\Delta = 26^\circ 36' 06''$ Rt.
 $D = 5^\circ 18' 19''$
 $R = 1080.00'$
 $L = 501.43'$
 $T = 255.32'$
 $Ext. = 29.77'$

Exlst. Survey & P.I. 71+51.07

Exlst. R/W ASLD 16-107385

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

Exlst. R/W ASLD 72-23967

EXISTING R/W CENTERLINE COORDINATE TABLE			
No.	Northling	Eastling	Description
22	85344.1130	19904.2427	Fd. 1/2" Rebar No Tag with P.C. Reference Points
26	87264.0703	20503.7119	Calculated From P.C. Reference Points
28	87634.4315	20534.7830	Fd. 1/2" Rebar No Tag/Reference Points Not Found
32	81714.7098	20025.0655	Fd. Magnetic Nail with P.C. Reference Points
1033	85167.5776	19910.1195	Calculated
1035	85512.7188	19956.8865	Calculated
1036	87125.3508	20460.3994	Calculated
1038	87408.8857	20515.8610	Calculated
1039	87483.2714	20522.1016	Calculated

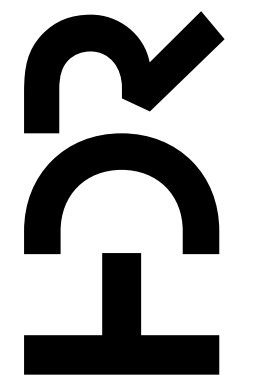
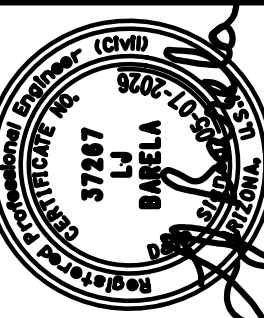
1/4 Cor.
Fd. 2-1/2" U.S.G.L.O.
Brass Disk On 1" Steel Pipe
Stamped "1/4 S11 S14 1923"

GEOMETRIC LAYOUT
EXISTING CENTERLINES & R/W
SHEET 1 OF 2

Kathryn Skinner, P.E., Director

Date	4/2026
Designed	ATS
Drawn	ATS
Checked	BAK
Proj. Engr.	LIB

Date	
Revision	Description
No.	



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

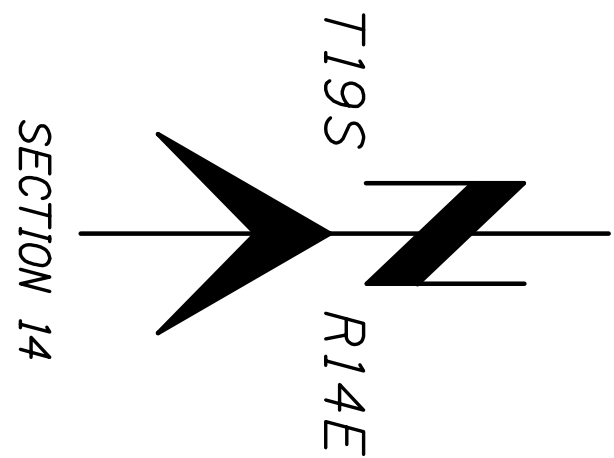
CONTROL POINTS AND CONSTRUCTION BENCHMARKS									
Pt. #	Ctrl. Name	BM#	Northing	Eastng	Elev.	Centerline	Station	Offset	Description
10	P-399 B.O.E.	---	89823.8991	21687.5356	3677.620	Exlst. R/W & Exlst. Survey &	P.O.T. 256+18.02 P.O.T. 95+03.08	247.44' Lt. 247.44' Lt.	Fd. 3-1/2" Brass Cap In 1' Concrete Cylinder
33	3663	2	88180.3644	20905.5139	3665.560	Exlst. R/W & Exlst. Survey &	P.O.T. 238+15.90 P.O.T. 77+06.10	7.76' Rt. 62.76' Rt.	Fd. USDA FS 3-1/8" Brass Cap In Bridge Headwall
34	TBM-1	4	87093.1120	20457.5623	3659.850	Exlst. R/W & Exlst. Survey &	P.O.T. 226+07.51 P.O.T. 64+63.70	6.90' Rt. 140.23' Rt.	Fd. USDA FS 3-1/8" Brass Cap In Bridge Headwall
35	3674	3	86042.3761	20132.0855	3676.765	Exlst. R/W & Exlst. Survey & Const. &	P.O.T. 215+07.52 P.O.T. 53+65.28 P.O.T. 15+07.49	9.38' Rt. 81.51' Rt. 11.49' Rt.	Fd. USDA FS 3-1/8" Brass Cap In Bridge Headwall
641	---	5	86482.4750	20303.3928	3664.970	Exlst. R/W & Exlst. Survey & Const. & Borrow Ditch Const. &	P.O.T. 219+78.68 P.O.T. 58+33.90 P.O.T. 19+78.71 P.O.T. 10+83.66	41.73' Rt. 140.02' Rt. 40.73' Rt. 77.80' Rt.	Fd. 1/2' Rebar No Tag
642	---	7	85336.0606	19963.7172	3713.795	Exlst. R/W & Exlst. Survey &	P.O.C. 207+71.77 P.O.C. 46+25.58	45.15' Rt. 54.27' Rt.	Fd. 1/2' Rebar No Tag

CONSTRUCTION CENTERLINE COORDINATE TABLE		
No.	Northing	Eastng
7000	85627.8305	19991.7803
7001	85656.4671	20000.7215
7002	86143.7039	20151.3946
7003	86311.2603	20206.2155
7004	86381.3098	20229.1343
7005	86448.1163	20249.9933

EXISTING R/W CENTERLINE COORDINATE TABLE			
No.	Northing	Eastng	Description
22	85344.1130	19904.2427	FD. 1/2" Rebar with P.C. Reference Points
26	87264.0703	20503.7119	Calculated From P.C. Reference Points
1035	85512.7188	19956.8865	Calculated
1036	87125.3508	20460.3994	Calculated

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			

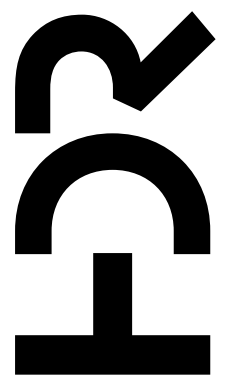
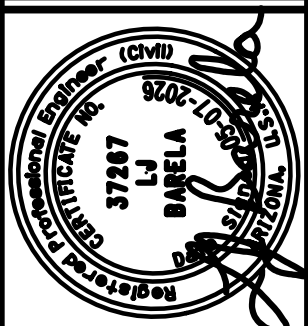
T0540 OIC



Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
4/2026	JAR	JAR	BAK	LIB

No.	Revision	Description	Engineer	Date

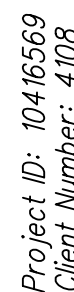
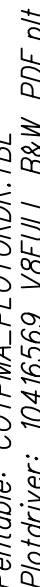


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

GEOMETRIC LAYOUT
CONSTRUCTION CENTERLINE
SHEET 2 OF 2

c:\pwworking\west01\d4025172\02C-01.dan



Project # 24041PJ

Contact Arizona 811 at least two full working days before you begin excavation.

ARIZONA811
MADE POSSIBLE.™

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M1	47	L.F.	L.F. Sawcut Pavement <i>Incidental to Bid Item 2020029</i>
a	23	L.F.	Sta. 11+00, 11.6' Lt. to Sta. 11+00, 11.4' Rt.
b	24	L.F.	Sta. 18+60, 11.1' Lt. to Sta. 18+60, 12.4' Rt.
M2	1612	S.Y.	Removal of Bituminous Pav't Bid Item 2020029
a	837.3	S.Y.	Sta. 11+00.00 to Sta. 14+71.71
b	774.5	S.Y.	Sta. 15+21.21 to Sta. 18+60.00
M3	150.0	L.F.	Removal of Guard Rail Bid Item 2020071
a	37.5	L.F.	Sta. 14+37.71, 8.6' Lt. to Sta. 14+75.29, 3.9' Lt.
b	37.5	L.F.	Sta. 14+21.44, 12.6' Rt. to Sta. 14+60.18, 11.8' Rt.
c	37.5	L.F.	Sta. 15+24.38, 3.8' Lt. to Sta. 15+62.10, 6.2' Lt.
d	37.5	L.F.	Sta. 15+09.73, 11.7' Rt. to Sta. 15+48.09, 15.0' Rt.

S1 *Survey Monument
See Geometric Layout Sheet G5*

PVC-6 *Pipe, Polyvinyl Chloride (PVC),
6 Inch (Class 200) See Detail R1*

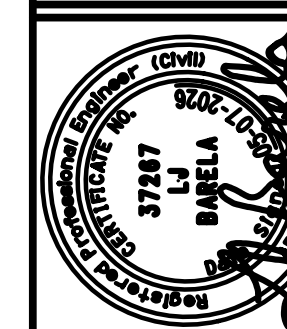
RIP-6 *Dumped Riprap ($D_{50}=6$ in)
See General Notes Sheet G2 and
Detail R1*

RIP-12 *Dumped Riprap ($D_{50}=12$ in)
See General Notes Sheet G2 and
Detail R1.*

*New Barrier
See Summary Sheet G4*

Scales	Horiz. 1" = 40'	Sheet R1 of R1
	Vert. 1" = 10'	

		Date
<i>Designed</i>	JAR	4/2026
<i>Drawn</i>	JAR	4/2026
<i>Checked</i>	BJK	4/2026
<i>Proj. Engr.</i>	LJB	4/2026

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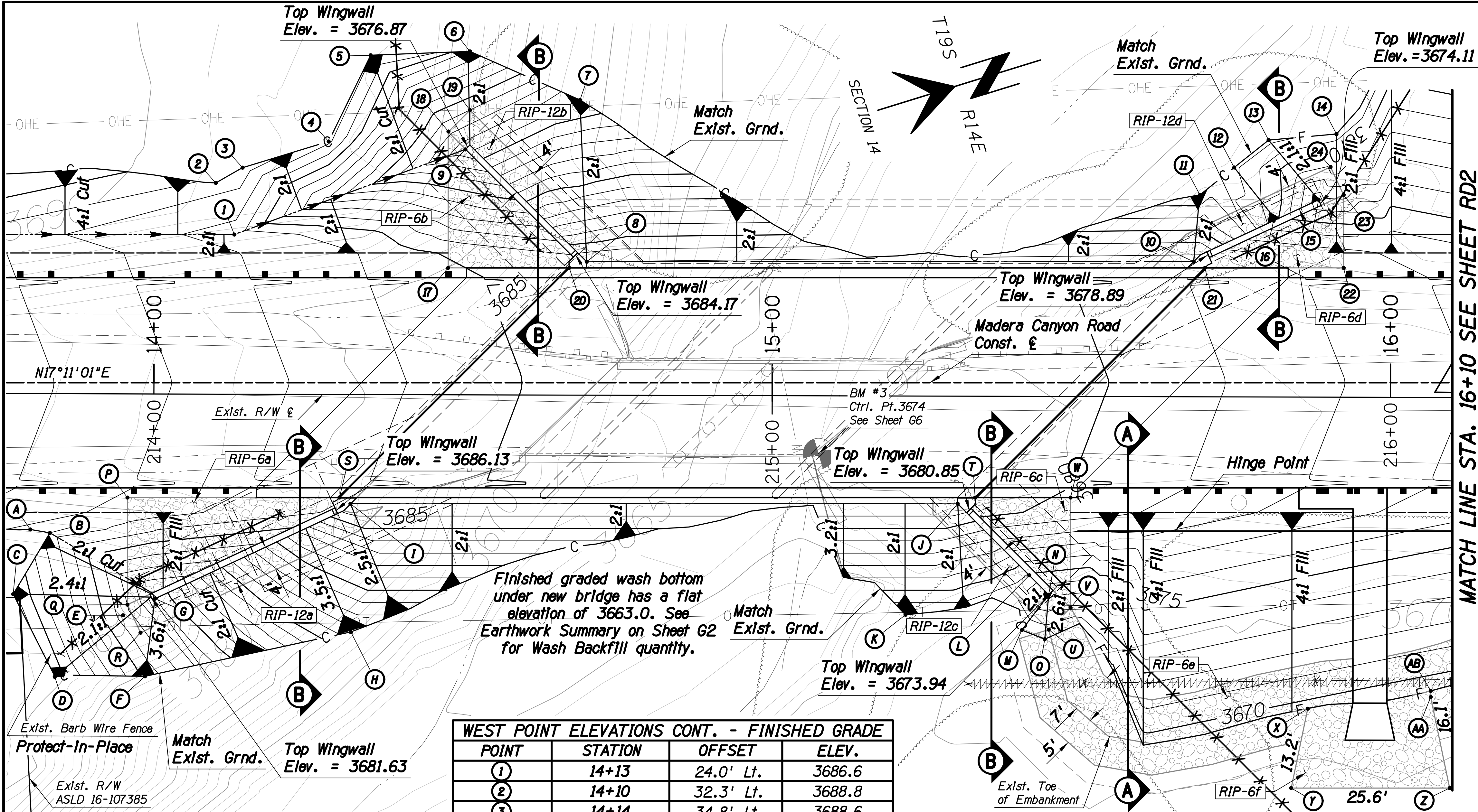
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

c:\pwworking\west01\4025172\09C-03.dgn

Pentable: COTFMA_PLOT03DPR.TBL
Plotdriver: 10416569_V8FULL_Bkx_PDF.plt

Project ID: 10416569
Client Number: 4106



EAST POINT ELEVATIONS - FINISHED GRADE			
POINT	STATION	OFFSET	ELEV.
(A)	13+80	23.8' Rt.	3687.8
(B)	13+83	24.3' Rt.	3688.0
(C)	13+77	34.2' Rt.	3690.6
(D)	13+84	47.3' Rt.	3690.7
(E)	13+95	37.6' Rt.	3683.5
(F)	13+99	47.5' Rt.	3684.7
(G)	14+00	35.0' Rt.	3681.0
(H)	14+32	40.3' Rt.	3673.4
(I)	14+32	19.6' Rt.	3663.0
(J)	15+30	19.6' Rt.	3663.0
(K)	15+22	37.5' Rt.	3672.0
(L)	15+42	31.2' Rt.	3671.4
(M)	15+40	40.0' Rt.	3670.0
(N)	15+45	34.3' Rt.	3673.4
(O)	15+44	41.5' Rt.	3670.0

WEST POINT ELEVATIONS CONT. - FINISHED GRADE			
POINT	STATION	OFFSET	ELEV.
(1)	14+13	24.0' Lt.	3686.6
(2)	14+10	32.3' Lt.	3688.8
(3)	14+14	34.8' Lt.	3688.6
(4)	14+28	39.0' Lt.	3687.2
(5)	14+35	53.0' Lt.	3687.1
(6)	14+51	53.6' Lt.	3683.8
(7)	14+69	45.8' Lt.	3676.1
(8)	14+70	19.6' Lt.	3663.0
(9)	14+50	37.6' Lt.	3676.5
(10)	15+69	20.7' Lt.	3663.0
(11)	15+69	30.4' Lt.	3668.3
(12)	15+75	34.8' Lt.	3667.3
(13)	15+80	39.3' Lt.	3667.7
(14)	15+91	40.2' Lt.	3668.4
(15)	15+88	29.6' Lt.	3673.6
(16)	15+81	26.2' Lt.	3669.6

SPILLWAY POINT ELEVATIONS - RIPRAP			
POINT	STATION	OFFSET	ELEV.
(Y)	15+86.62	52.75' Rt.	3669.7
(Y)	15+83.94	65.60' Rt.	3670.3
(Z)	16+10.65	65.60' Rt.	3670.5
(AA)	16+06.51	50.87' Rt.	3669.3
(AB)	16+06.51	49.87' Rt.	3669.3

EAST POINT ELEVATIONS - RIPRAP			
POINT	STATION	OFFSET	ELEV.
(P)	13+95.72	18.58' Rt.	3687.9
(Q)	13+95.72	35.92' Rt.	3682.9
(R)	13+97.83	40.45' Rt.	3683.3
(S)	14+30.00	18.58' Rt.	3686.1
(T)	15+32.83	18.58' Rt.	3680.7
(U)	15+44.72	39.96' Rt.	3670.2
(V)	15+48.26	36.42' Rt.	3671.1
(W)	15+48.26	18.58' Rt.	3679.8
WEST POINT ELEVATIONS - RIPRAP			
(17)	14+47.58	18.58' Lt.	3685.2
(18)	14+47.58	40.58' Lt.	3678.3
(19)	14+51.12	44.12' Lt.	3679.0
(20)	14+67.17	18.58' Lt.	3684.1
(21)	15+70.00	18.58' Lt.	3678.7
(22)	15+92.43	18.58' Lt.	3677.5
(23)	15+92.43	30.39' Lt.	3671.7
(24)	15+90.32	34.92' Lt.	3670.4

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540_OIC					
Contact Arizona Btl at least two full working days before you begin excavation Call Btl or click ArizonaBtl.com					

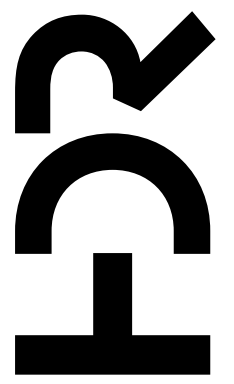
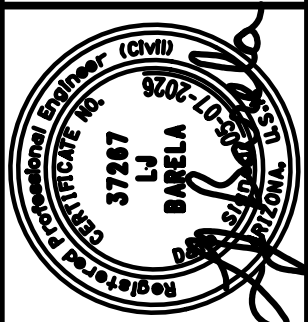
Item No.	Qty.	Unit	Description
RIP-6	86	C.Y.	Riprap (Dumped) (D50=6 Inch) Bld Item 9130015
a	12.0	C.Y.	Sta. 13+95.72 to Sta. 14+30.00
b	9.0	C.Y.	Sta. 14+47.58 to Sta. 14+67.17
c	6.0	C.Y.	Sta. 15+32.83 to Sta. 15+48.26
d	6.0	C.Y.	Sta. 15+70.00 to Sta. 15+92.43
e	37.0	C.Y.	Sta. 15+44.72 to Sta. 16+10.00
f	16.0	C.Y.	Sta. 14+37.71 to Sta. 14+75.29
RIP-12	41	C.Y.	Riprap (Dumped) (D50=12Inch) Bld Item 9130016
a	12.5	C.Y.	Sta. 13+95.72 to Sta. 14+36.96
b	10.5	C.Y.	Sta. 14+47.58 to Sta. 14+74.00
c	8.5	C.Y.	Sta. 15+26.00 to Sta. 15+48.26
d	9.5	C.Y.	Sta. 15+61.51 to Sta. 15+92.43

Notes:
Riprap color shall be Coronado Brown unless otherwise directed by Pima County.

Scales	Horiz. 1" = 10'	Sheet RD1 of RD3	Page 8 of 80
	Vert. 1" = NA		

Kathryn Skinner, P.E., Director

No.	Revision	Description	Date

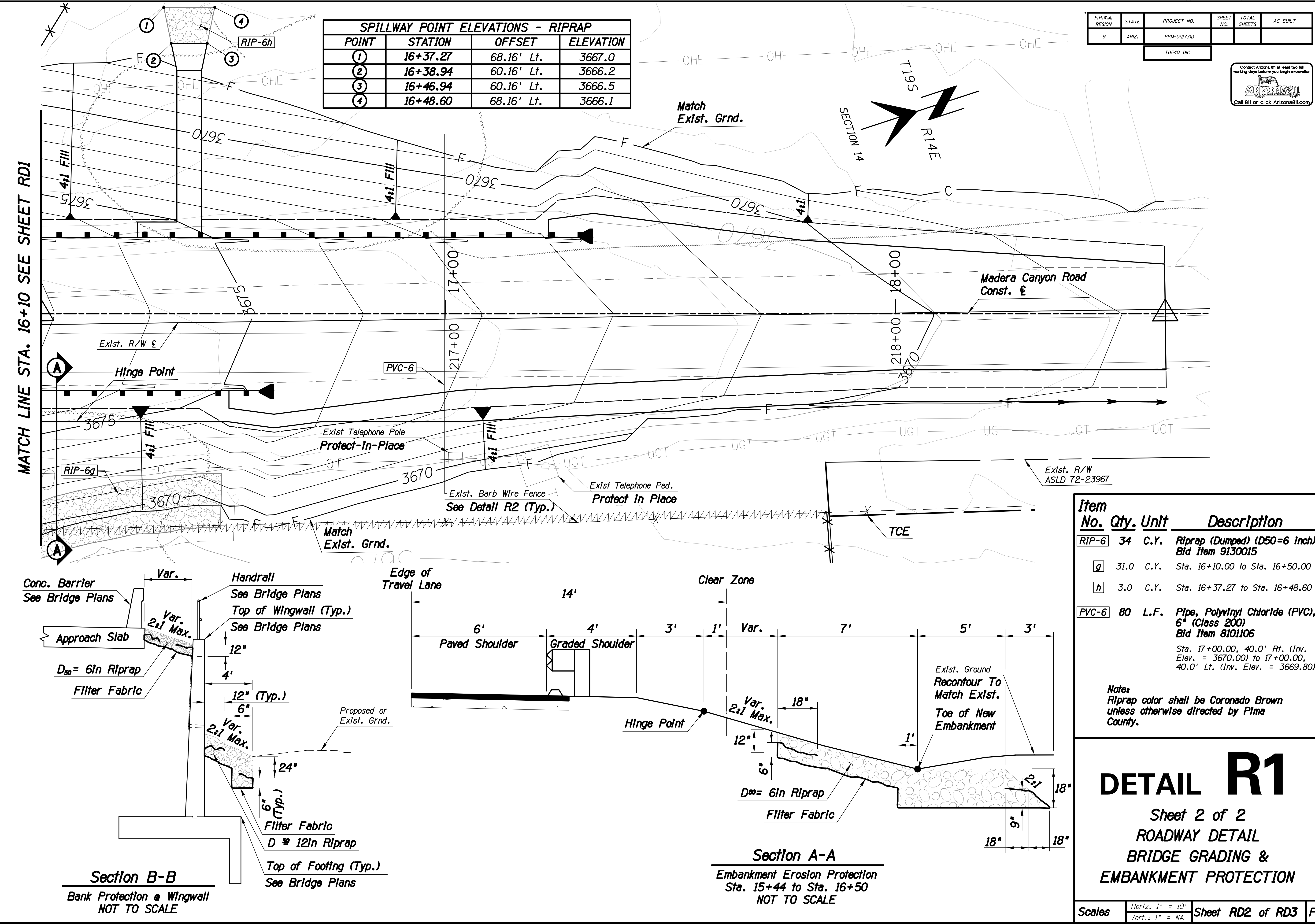


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

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Project ID: 10416569
Client Number: 4106
Pentable: COTPMA_PLOT09DR.TBL
PlotDriver: 10416569_V8FULL_B&W.plt



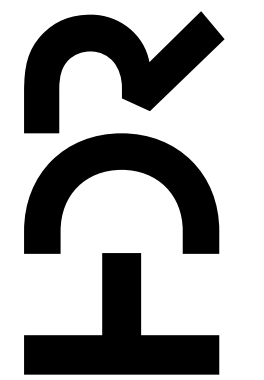
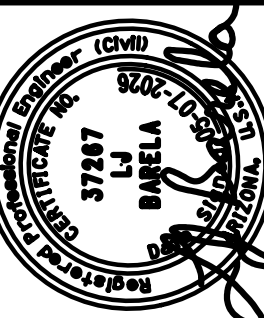
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540 OIC					



Kathryn Skinner, P.E., Director

Date	4/2026	4/2026	4/2026	4/2026
Designed	JAR	JAR	BAK	LIB
Drawn	JAR	JAR	BAK	LIB
Checked	JAR	JAR	BAK	LIB
Proj. Engr.	JAR	JAR	BAK	LIB

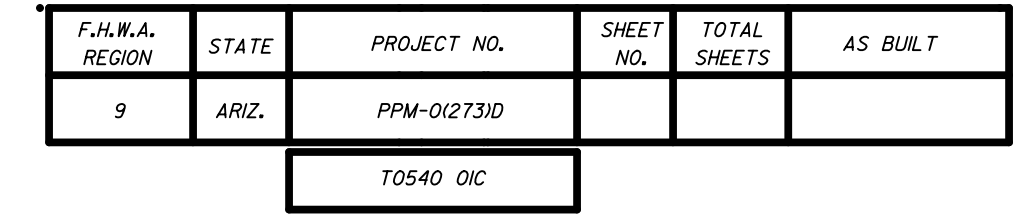
No.	Revision	Description	Engineer	Date



Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



M4	920	L.F.	Removal of Fence Bld Item 2020101
a		L.F.	See Detour Plan Sheet TC3
b	667	L.F.	Sta. 48+28.64, 21.76' Lt. to Sta. 54+88.00, 5.68' Lt.
c	253	L.F.	Sta. 53+87.48, 120.01' Rt. to Sta. 56+39.50, 131.62' Rt.
R31	1820	L.F.	Barbed Wire Game Fence Bld Item 9030303 ADOT Std. C-12.10
a	1340	L.F.	Sta. 47+61.77, 59.50' Lt. to Sta. 56+39.50, 0.00' Rt.
b	350	L.F.	Sta. 53+92.00, 91.74' Rt. to Sta. 56+39.50, 131.62' Rt.
c	85	L.F.	Sta. 54+34.00, 53.54' Rt. to Sta. 54+88.00, 5.68' Lt.
d	45	L.F.	Sta. 52+41.14, 107.34' Rt. to Sta. 52+78.00, 86.41' Rt.
R32	2	Each	Fence Gate, Type 1, Single Bld Item 9030101 12 ft, ADOT Std. C-12.10
a	1	Each	Sta. 48+50.00, 59.50' Lt.
b	1	Each	Sta. 53+00.05, 21.50' Lt.

DETAIL R2

ROADWAY DETAIL
FENCING PLAN

Scales	Horiz. 1" = 100'	Sheet RD3 of RD3	Page 10 of 80
	Vert. 1" = NA		

**MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ**

PAVEMENT MARKING GENERAL NOTES

1. All equipment /materials and construction shall meet or exceed the requirements contained in the current Pima Association of Governments (PAG) Standard Specifications and Standard Details for Public Improvements, the special provisions, the supplemental specifications and the approved plans. All pavement markings shall be installed in compliance with the latest edition of the Manual on Uniform Traffic Control Devices and the Pima County/City of Tucson (PC/COT) Signing & Pavement Marking Design Manual and applicable amendments.
2. The pavement marking contractor shall contact the Pima County pavement marking supervisor (520-724-2356) at least 3 working days in advance of any pavement marking layout and installation to schedule inspection and approval of pavement markings. Pavement marking shop hours are Monday through Thursday 6:00 am to 3:30 pm, state holidays excluded.
3. Upon approval of the pavement marking layout, the Pima County pavement marking supervisor will issue written authorization to the contractor to proceed with installing all pavement markings and associated reflective raised pavement marking.
4. The permanent pavement markings may be modified as directed and approved by the County Engineer or designee.
5. The design speed for Madera Canyon Road is 45 mph. The design vehicle is WB-62. The posted speed limit is 45 mph.
6. All lane dimensions are measured from the center of lane line, center of double lane line, edge of pavement, or curb face unless otherwise noted.
7. The pavement marking drawings are schematic only. The contractor shall follow all dimensions, applicable marking details, and specified Pima County standards when installing pavement striping, symbols, legends, and markers.
8. Painted layout striping shall be 15 mil (0.015') thick, water based paint placed on the final pavement surface with 8 pounds per gallon of AASHTO M 247-13 Type I glass beads with adhesion/moisture proof coating. Painted layout striping shall be installed within five (5) working days of the final pavement surface being completed.
9. The final longitudinal striping shall be 90 mil (0.090') thick ribbon extruded thermoplastic reflectorized striping placed over the painted layout striping with a single drop of 10 pounds per 100 square feet of AASHTO M 247-13 glass beads. The final longitudinal striping shall be placed within 21 to 30 calendar days of the final pavement surface being completed. All previously exempted longline markings shall be applied during the final longitudinal striping.
10. The contractor shall be responsible for the layout and installation of pavement markings on the final surface course following one control line per direction of travel consisting of control points that have been set to no more than 50 feet apart on curve sections and 200 feet in tangent sections where the pavement marking pattern does not change.
11. It is the contractor's responsibility to ensure that the final surface course is placed so that the construction joint is no more than one foot offset from the final striping.
12. All retroreflective raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow.
13. All retroreflective raised pavement markers shall be installed per the current edition of the PAG Standard Specifications, the PC/COT Pavement Marking Manual and applicable amendments.
14. All removal of existing pavement markings shall be accomplished in accordance with Section 701 of the PAG Standard Specifications. Painting over existing striping does not constitute approved striping obliteration.
15. Unless otherwise noted, all pavement markings shall be installed by the contractor.
16. Upon final inspection by Pima County, a written acceptance or itemized punchlist of missing or unacceptable pavement markings shall be submitted to the contractor.
17. The contractor shall be responsible for maintaining all striping until project is approved for 'Construction Acceptance' by Pima County (fully open to traffic, all punchlist items are completed, and the one year warranties begin). If the pavement marking material manufacturer offers a longer warranty, the contractor shall transfer that warranty to Pima County.
18. The PC/COT Signing & Pavement Marking Manual is available online.

PAVEMENT MARKING CODES

 WHITE SOLID 6"  YELLOW DOUBLE SOLID 4" w/ TYPE D RPM AT 40' (**)

Note:
** Spacing between double markings shall be per PCDOT/COT Signing and Marking Standards Sheet No. 3.1.1, dated December 2020. Layout RPMs per YDS series lines - yellow double solid series lines per PCDOT/COT Signing and Marking Standards Sheet No. 3.1.1a.

SIGNING GENERAL NOTES

1. All equipment / materials and construction shall meet or exceed the requirements contained in the current Pima Association of Governments (PAG) Standard Specifications and the Standard Details for Public Improvements, Pima County Supplemental Specifications and Details, the special provisions and the approved plans. All signing shall be installed in accordance with the PC/COT Signing & Pavement Marking Design Manual and applicable amendments.
2. All signs shall be in compliance with the latest edition of the Manual on Uniform Traffic Control Devices, the latest edition of the Pima County/City of Tucson Signing & Pavement Marking Design Manual, the PAG Standard Specifications, the Pima County Supplemental Specifications, any required special provisions, and these plans.
3. Signs may be modified, and locations adjusted, to fit conditions at the discretion of the County engineer.
4. The design speed for Madera Canyon Road is 45 mph. The posted speed limit is 45 mph. Sign placement shall be based on the posted speed limit.
5. Post lengths indicated on sign summary sheets are approximate. The contractor shall verify actual post lengths.
6. All perforated posts shall be installed in a concrete foundation, unless otherwise directed by the County engineer.
7. All sign station locations are approximate, the contractor shall verify actual sign locations with the County engineer prior to the installation of any sign, posts, and/or foundations.
8. The contractor shall be responsible for coordinating all work with Arizona 811 for installing all traffic signs in the field and for maintaining all signing until project is approved for "Construction Acceptance" by Pima County (fully open to traffic, all punch list items are completed, and one year warranties begin).
9. All signs shall have Type XI sheeting or an equivalent. All warning signs having yellow backgrounds shall use fluorescent yellow sheeting. All school signs shall use fluorescent yellow/green sheeting. All ground mounted signs shall have an anti-graffiti coating applied to sign face, 3M #1160 film or equivalent.
10. A 3"x2" pressure sensitive, UV resistant label indicating the sign manufacturer's name and date of manufacture shall be placed in the upper right corner of the back of all signs, except for street name signs, at the time of installation. Street name signs shall include a sign identification decal as described within Pima County Signing and Marking Standards Detail 6.1.1.
11. All new signs shall have 0.080 gauge, radius corner, aluminum backing unless otherwise noted.
12. Prior to disturbing any traffic signs, a sign condition inventory of all existing signing shall be conducted by the contractor and provided to the Pima County sign shop supervisor (520) 724-2630. Inventory shall indicate current sign location and condition, including any existing damage or deficiencies.
13. Any signs and posts being re-used on this project shall be stockpiled in a manner to avoid damage and maintain the integrity of the signs. Safe storage of stockpile and payment of damage to the stockpile shall be the responsibility of the contractor.
14. All signs and posts not being re-used on this project shall be dismantled, stacked and delivered to the owner (City, County, Federal, or town) by the contractor. The contractor is responsible for the safe storage at the construction site until delivery and the safe unloading of the salvaged material. Notification of delivery shall be made at least 2 working days prior to delivery. Pima County sign shop 1313 S. Mission Road (520) 724-2630, no Friday deliveries.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D			
T0540 OIC					

FLORIDA CANYON WASH
PAVEMENT MARKING &
SIGNING GENERAL NOTES



Date	Revised	By	Checked	By	Checked	By
05/2026		R. Solis	05/2026		J. Doria, B. Hosack	
05/2026		R. Solis	05/2026		M. Chamberlain, R. Solis	
05/2026		R. Solis	05/2026		R. Solis	

No.	Revision Description	Engineer	Date



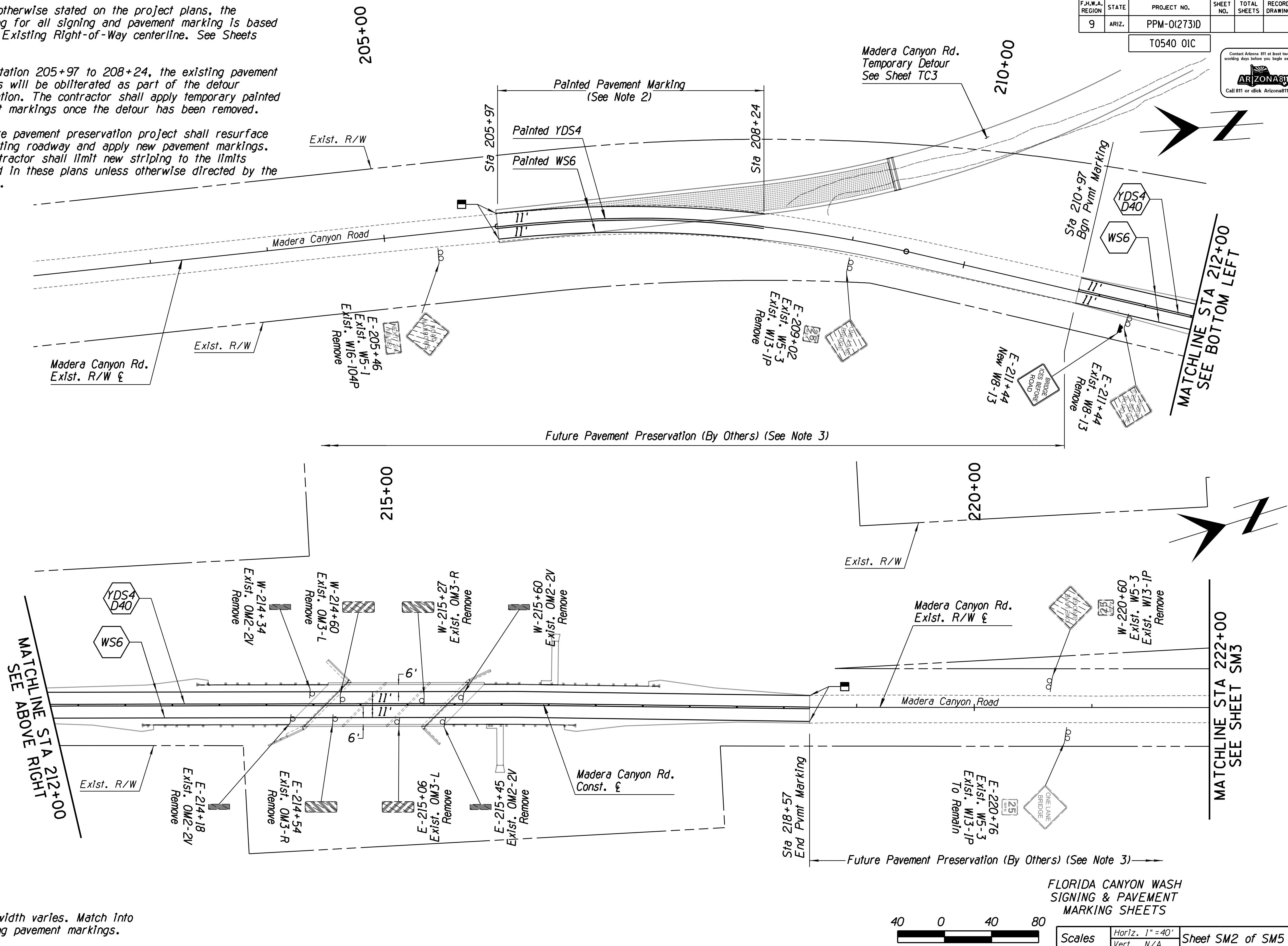
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

- NOTE:
1. Unless otherwise stated on the project plans, the stationing for all signing and pavement marking is based off the Existing Right-of-Way centerline. See Sheets G5-G6.
 2. From station 205+97 to 208+24, the existing pavement markings will be obliterated as part of the detour construction. The contractor shall apply temporary painted pavement markings once the detour has been removed.
 3. A future pavement preservation project shall resurface the existing roadway and apply new pavement markings. The contractor shall limit new striping to the limits reflected in these plans unless otherwise directed by the engineer.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D	T0540 OIC		

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811
Call 811 or click Arizona811.com

Date	Designed	Drawn	Checked	Proj. Engr.
05/2026	R. Solis	J. Dana, B. Hosack	M. Chamberlain, R. Solis	R. Solis

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

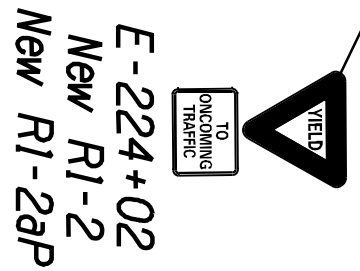
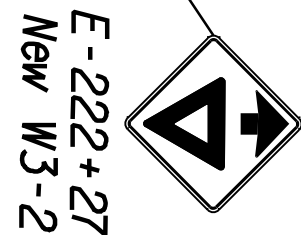
Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

■ Lane width varies. Match into existing pavement markings.

FLORIDA CANYON WASH
SIGNING & PAVEMENT
MARKING SHEETS

MATCHLINE STA 222+00
SEE SHEET SM2



E-225+15
Exist. OM2-2V
To Remain

E-225+47
Exist. OM3-R
To Remain

W-225+15
Exist. OM2-2V
To Remain

W-225+50
Exist. OM3-L
To Remain

Sta 226+09.5

See Medium Wash Bridge Replacement Project
#24043PJ for New Pavement Marking and Signing

Madera Canyon Road

Madera Canyon Rd.
Exist. R/W &

Exist. R/W

Exist. R/W

Section
Line

225+00

230+00

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D			

T0540 OIC



NOTE:
Unless otherwise stated on the project plans, the
stationing for all signing and pavement marking is based
off the Existing Right-of-Way centerline. See Sheets
G5-G6.



FLORIDA CANYON WASH
SIGNING & PAVEMENT
MARKING SHEETS

Scales	Horiz. 1" = 40'
	Vert. N/A

Sheet SM3 of SM5

Page 13 of 80

Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ



No.	Revision Description	Engineer	Date

Kathryn Skinner, P.E., Director

Date	
05/2026	
Designed	R. Solis
Drawn	J. Dana, B. Hosack
Checked	M. Chamberlain, R. Solis
Proj. Engr.	R. Solis

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

T0540 01C

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET* (FT)	MOUNTING HEIGHT	PANEL							GROUND MOUNTED					OVERHEAD		REMARKS		
			NEW	EXISTING						BACKGROUND COLOR	LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	MIN. SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		NEW SLIPBASES	STRINGER**			STRUCTURE TYPE	NUMBER OF LIGHTS
				REPLACE PANEL	RELOCATE PANEL	MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE		TOTAL LENGTH (FT)	TYPE			

[illegible]

Scales	Horiz. NA	Sheet SM4 of SM5	Page 14 of 80
	Vert. NA		

Kathryn Skinner, P.E., Director

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

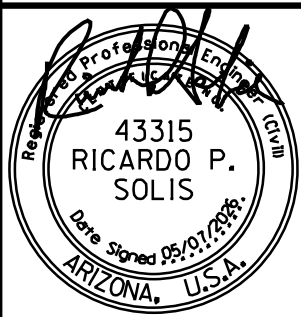
Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

T0540 01C

[illegible]

		Date
Designed	R. Solis	05/2026
Drawn	J. Dana, B. Hosack	05/2026
Checked	M. Chamberlain, R. Solis	05/2026
Proj. Engr.	R. Solis	05/2026

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

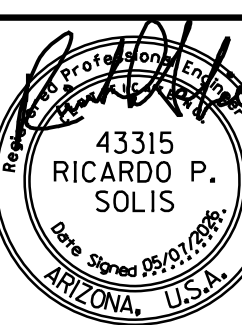
Scales	Horiz. NA	Sheet SM5 of SM5	Page 15 of 80
	Vert. NA		

1. All existing signs in conflict with the construction signs shall be removed, removed, relocated, or covered in place, as directed by the engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the engineer.
2. The retroreflective sheeting on all construction signs shall meet criteria established in section 1007 of ADOT Standard Specifications and in section 380 of the ADOT Traffic Engineering Policies, Guidelines and Procedures.
3. All signs shown on the plans shall be mounted on embedded posts. Signs installed on embedded posts shall be mounted at a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on spring stands, at the height recommended by the spring stand manufacturer.
4. The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement for all signs mounted on embedded posts.
5. Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.
6. Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.
7. Type C steady-burning yellow lights shall be mounted on every barricade.
8. Channelizing devices shall be placed 40 feet on center in tapers and 80 feet on center in tangents, or as modified by the engineer.
9. Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.
10. All construction signs shall have black letters on an orange background, except as otherwise noted.
11. Speed limit signing is preliminary and is subject to review and change by the engineer as dictated by field conditions.
12. Where no closure is necessary but where there is construction alongside a roadway under construction, the contractor shall place a 48 x 48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" sign as directed by the engineer to alert the public to the construction activities.
13. The contractor may substitute type I barricades for type II barricades as long as the reflective area on the top panel of each type I barricade is equivalent or greater than the reflective area of a type II barricade.
14. For temporary concrete barrier markers, see ADOT Standard Drawing M-32 barrier markers. Markers shall be installed at 20 foot spacing. The installed price for the markers shall be considered part of the barrier cost.
15. For sand barrel crash cushion details, see ADOT Standard Drawings C-1 and C-2.
16. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway as long as they can remain within right-of-way or a TCE. If this is not possible the devices shall be moved to a staging area with the project limits. Traffic control devices shall not be staged within the washes.
17. The contractor shall maintain two-way traffic on Madera Canyon Road outside working hours.
18. The contractor shall remove the existing pavement markers in connection with the stripe obliteration activities.
19. The contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.
20. All drawings are schematic only and not to scale.
21. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Standard Specifications. All traffic control plans are subject to the approval of the engineer before beginning construction.
22. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities or as directed by the engineer.
23. The contractor shall provide flagger and uniformed police officers (sheriff) as directed by the engineer during installation and removal of temporary concrete barrier.
24. Temporary pavement markings shall be removed by approved methods when no longer required.
25. All existing pavement markings in conflict with the traffic control plans shall be removed by approved methods, as indicated in the special provisions.
26. Temporary striping shall be Type II preformed pavement marking tape. The pavement temperature shall be at least 60 degrees F when the tape is applied to the pavement. If the temperature is below 60 degrees F, then standard reflectorized traffic paint shall be used. The contractor shall remove the Type II tape at the completion of each phase of work at the contractor's expense.



		Date
Designed	R. Solls	05/2026
Drawn	J. Dana, B. Hosack	05/2026
Checked	M. Chamberlain, R. Solls	05/2026
Proj. Engr.	R. Solls	05/2026

No.	Revision Description	Engineer	Date

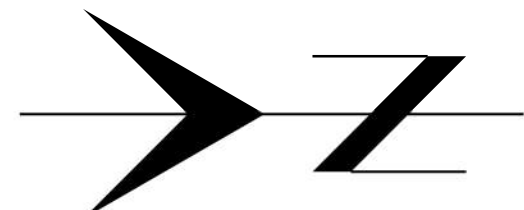


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



LEGEND

Workzone Limits for the #24041PJ and #24043PJ Projects.
* Sign location is based off the Florida Canyon-Medium Wash detour centerline. All other stationing is based off the Existing Right-of-Way centerline.

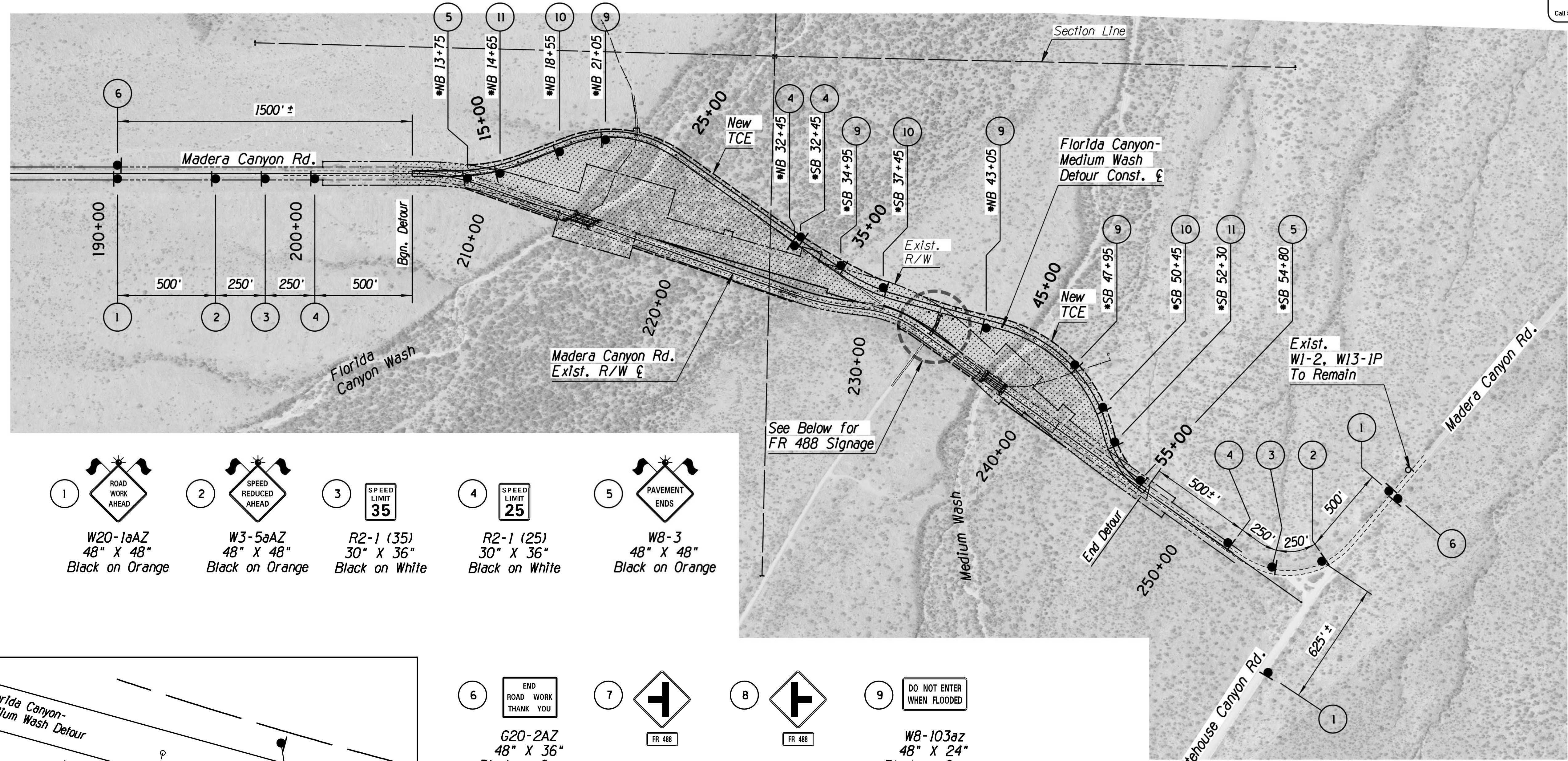
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D			

T0540 OIC

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA811

Call 811 or click Arizona811.com



- 1

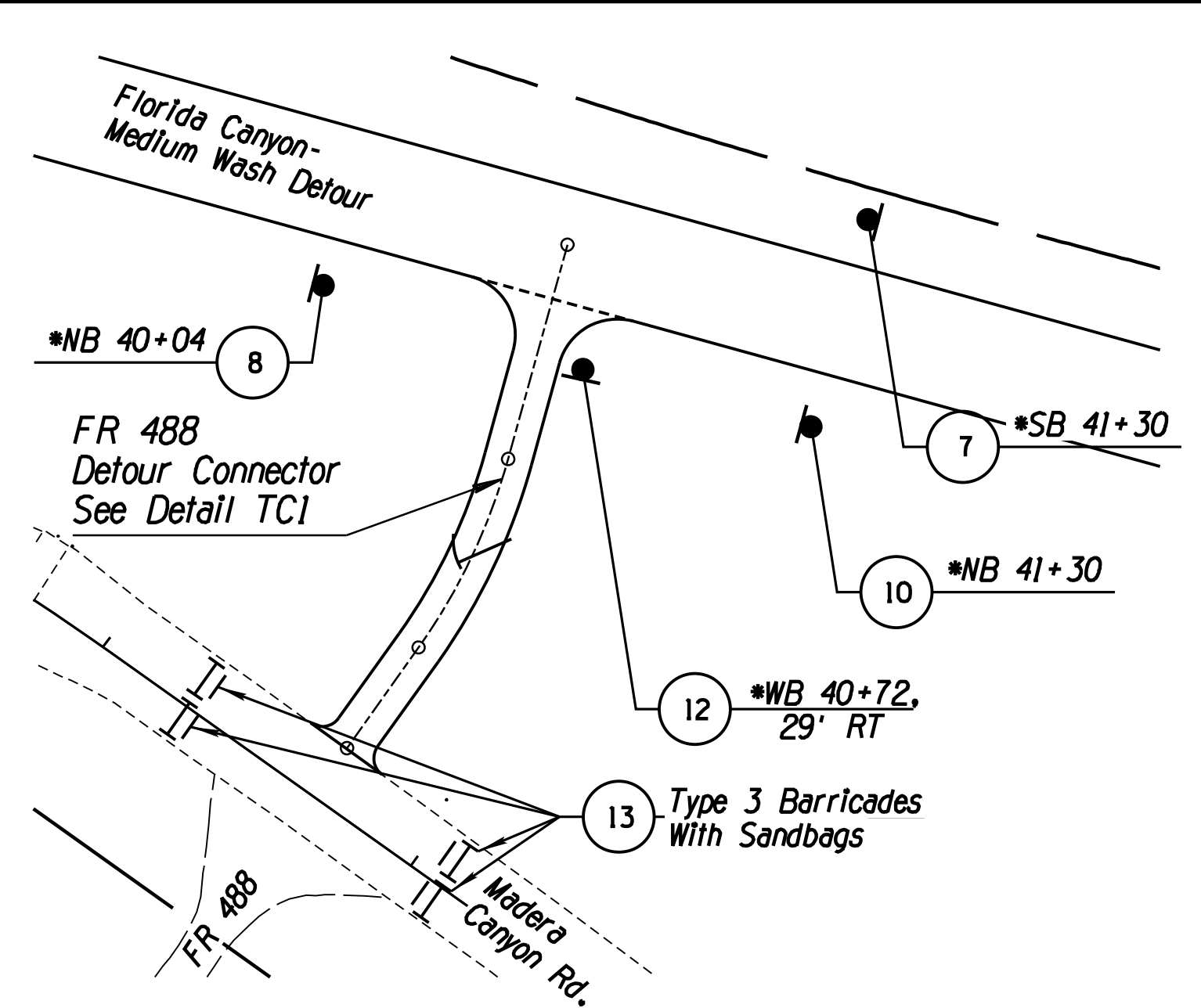
W20-1aAZ
48" X 48"
Black on Orange
- 2

W3-5aAZ
48" X 48"
Black on Orange
- 3

R2-1 (35)
30" X 36"
Black on White
- 4

R2-1 (25)
30" X 36"
Black on White
- 5

W8-3
48" X 48"
Black on Orange



FR 488 SIGNAGE DETAIL

- 6

G20-2AZ
48" X 36"
Black on Orange
- 7

W2-2L
36" X 36"
Black on Orange
12" X 18"
G20-103
Black on Orange
Specialty Sign
- 8

W2-2R
36" X 36"
Black on Orange
12" X 18"
G20-103
Black on Orange
Specialty Sign
- 9

W8-103az
48" X 24"
Black on Orange
- 10

W8-18
36" X 36"
Black on Orange
- 11

W11-4
36" X 36"
Black on Yellow
SP W11-04
18" X 24"
Black on Yellow
- 12

R1-1
30" X 30"
White on Red
- 13

R11-2
48" X 30"
Black on White

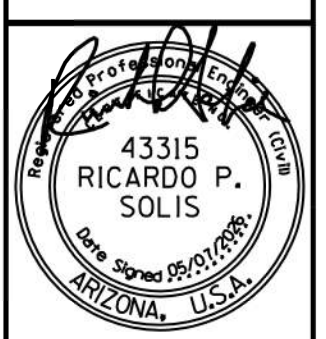
Notes:
1. The Maintenance of Traffic plan shown on this sheet assumes the #24041PJ and the #24043PJ projects will be constructed concurrently. Adjustments to this plan may be necessary if the projects are not constructed at the same time.

FLORIDA CANYON WASH-MEDIUM WASH
-TRAFFIC CONTROL
MAINTENANCE OF TRAFFIC PLAN

Kathryn Skinner, P.E., Director

Date	05/2026
Designed	R. Solis
Drawn	J. Dana, B. Hosack
Checked	M. Chamberlain, R. Solis
Proj. Engr.	R. Solis

No.	Revision	Description	Engineer	Date



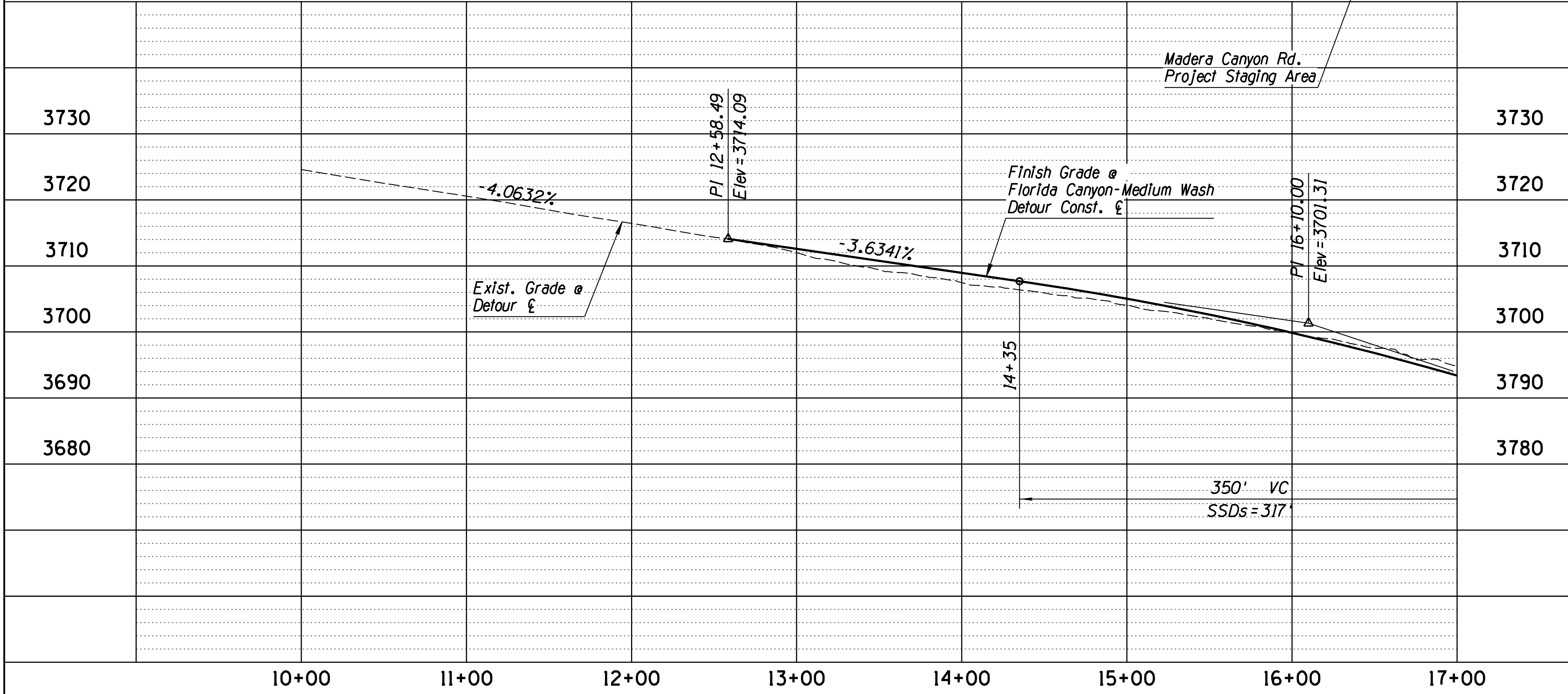
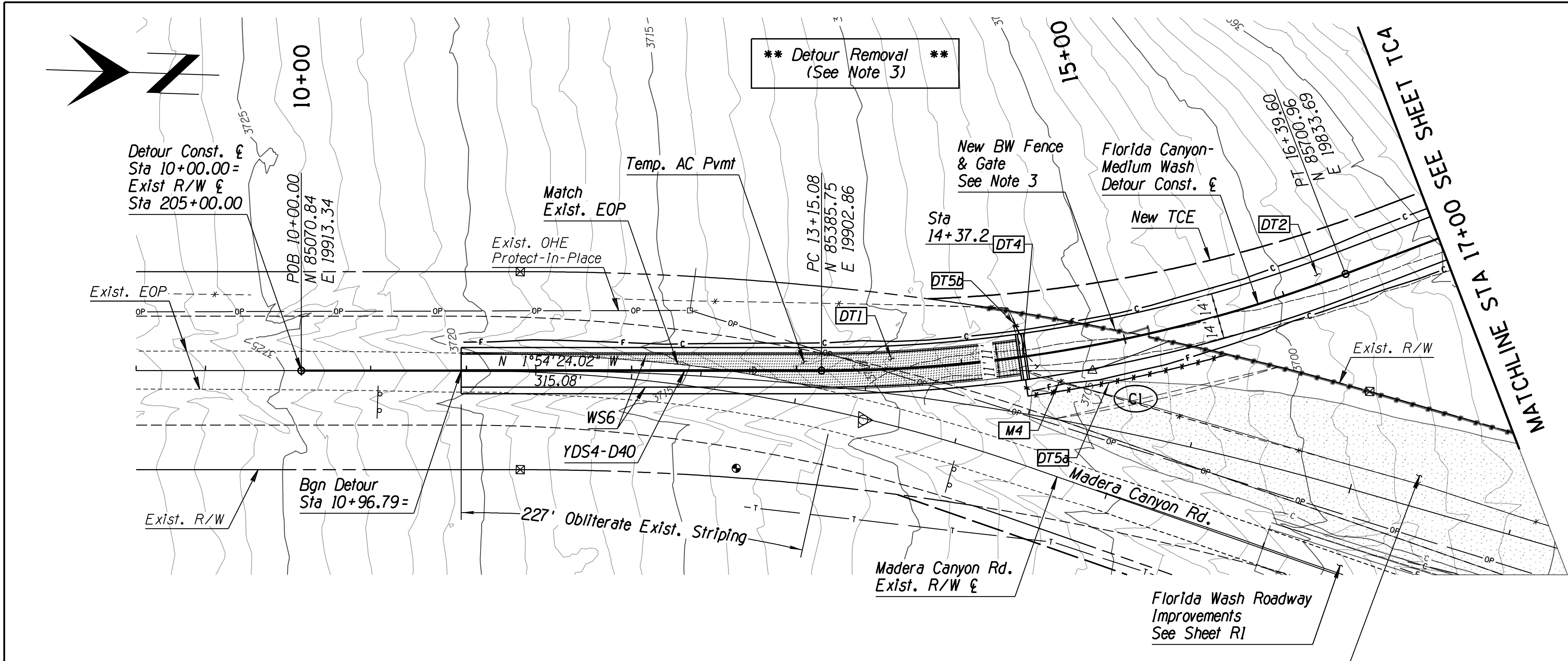
SOLIS
Engineering Co.

239 N. CHURCH AVE., TULSON, AZ 85701
PHONE: (520) 207-0742

Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D			
T0540 OIC					
Call 811 or click Arizona811.com					

Item No.	Qty.	Unit	Description
M4	34	L.F.	Remove BW Fence L.F. Sta 14+37, Lt 14' to Sta 14+68, Rt 24'
DT1	462	S.Y.	Detour Sec. No. 1 Sta 10+96.8, Lt 11' to Sta 14+37.17, Rt 0'
DT2	817	S.Y.	Detour Sec. No. 2 Sta 14+37.17 to Sta 17+00
DT4	1	Ea.	Roadway Cattle Guard ADOT C-11.10, Precast 4 Unit See Note 2
DT5	143	L.F.	Barbed Wire Fence ADOT C-12.10, Type 2 Sta 14+37, Lt 15' to Sta 14+37, Rt 24' to Sta 15+57, Rt 24'
D	133	L.F.	Sta 14+37, Lt 15' to Sta 14+37, Rt 24' to Sta 15+57, Rt 24'
D	10	L.F.	Sta 14+34, Lt 24' to Sta 14+37, Lt 15'

CI	CURVE DATA
	PI Sta 14+79.17 N = 85549.75 E = 19897.40 Main Curve D = 6°27'08.02" Δ = 20°56'18.94" Lt R = 888.00' L = 324.52' T = 164.09' Ext = 15.03'

Notes:

- Unless otherwise noted, all stationing used on the detour sheets shall be based on the Florida Canyon-Medium Wash Detour construction centerline.
- Once the detour is no longer required, the cattle guard shall be removed and salvaged back to Pima County DOT.
- See roadway plans for final location of barbed wire fence. Gate and fence shall be installed after removal of detour.
- Once the new Madera Canyon Road is permanently opened, all components of the detour shall be removed as described per Item No. 9300128. A 12-foot wide dirt road shall be salvaged from the compacted ABC detour section. See Sheet TC1 for the compacted ABC detour removal typical section.

FLORIDA CANYON WASH-MEDIUM WASH
TRAFFIC CONTROL-DETOUR PLAN/PROFILE
STA. 10+00 TO 17+00

Scales	Horizontal 1" = 40'	Vertical 1" = 10'	Sheet TC3 of TC10	Page 18 of 80
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Kathryn Skinner, P.E., Director

Date	05/2026
Designed	J. Dana, B. Hosack
Drawn	J. Dana, B. Hosack
Checked	M. Chamberlain, R. Solis
Proj. Engr.	R. Solis

No.	Revision Description	Engineer	Date

43315

RICARDO P. SOLIS

05/01/2026

ARIZONA, U.S.A.

SOLIS

Engineering Co.

239 N. CHURCH AVE., TULSON, AZ 85701

PHONE: (520) 207-0742

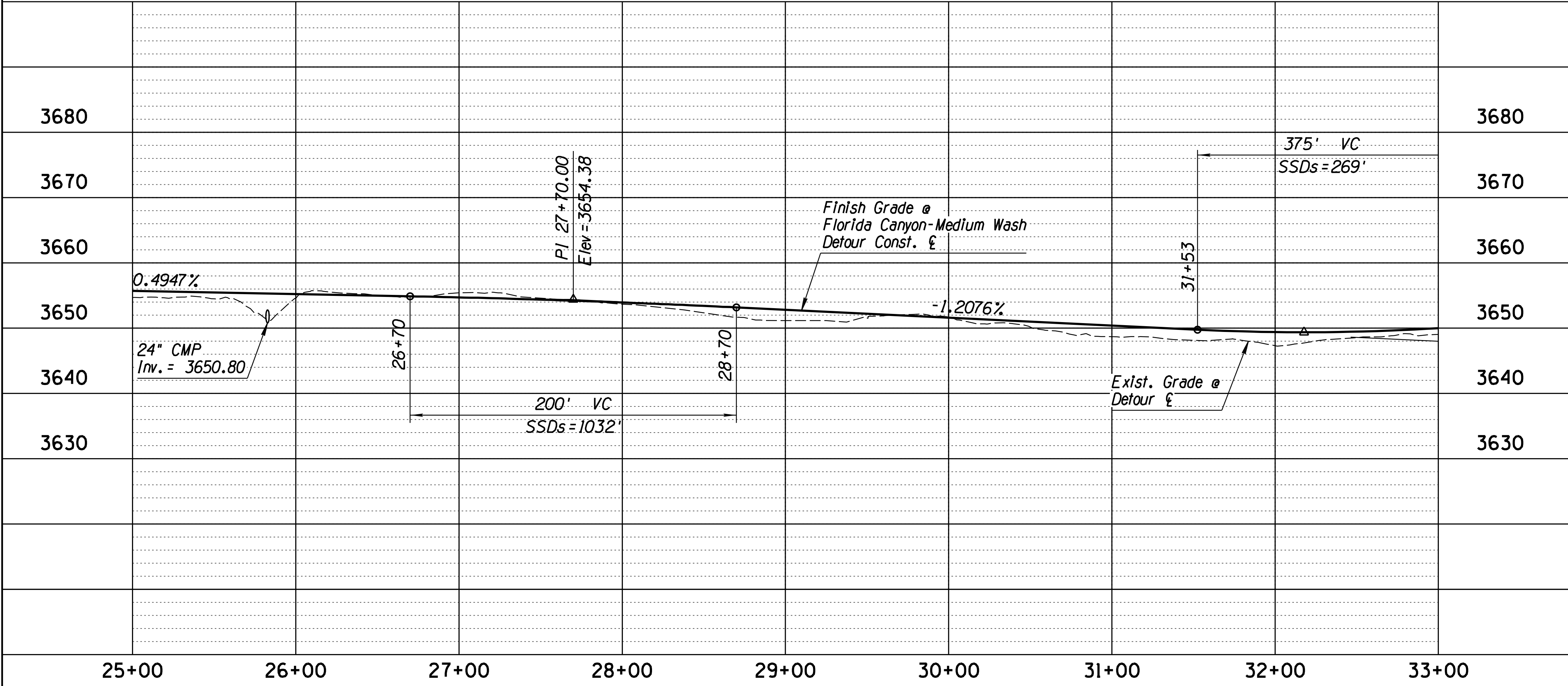
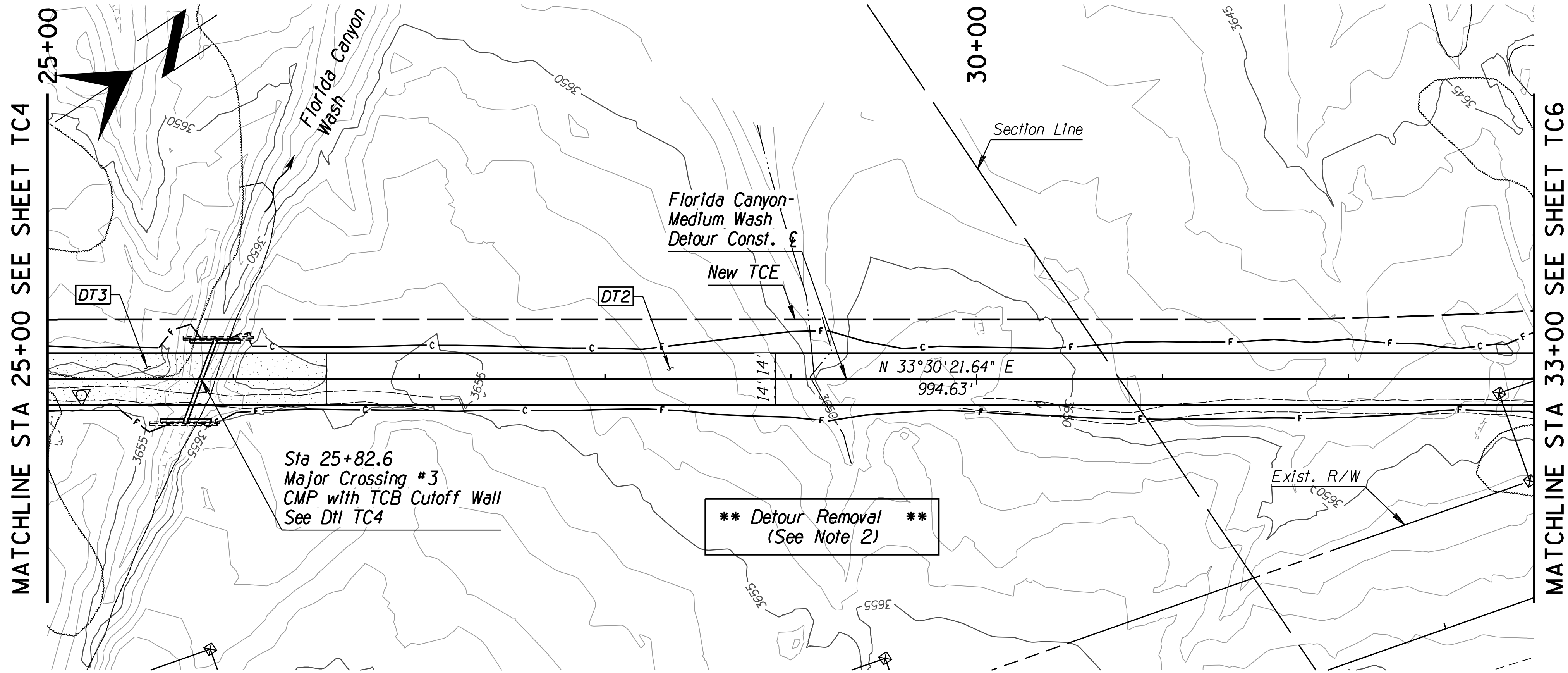
MADERA CANYON ROAD

FLORIDA CANYON WASH

BRIDGE REPLACEMENT

PROJECT NO. 24041PJ

7:23:45 AM 5/8/2026 Jeff Z:\Projects\PO27022024-MaderaCanyonBridges\CADD\Sheet files\4MADFL-DTR01.dgn



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	PPM-0(273)D			
T0540 OIC					
Contact Arizona 811 at least two full working days before you begin excavation Call 811 or click Arizona811.com					

Item No.	Qty.	Unit	Description
DT2	2022	S.Y.	Detour Sec. No. 2 Sta 26+50 to Sta 33+00
DT3	467	S.Y.	Detour Sec. No. 3 Sta 25+00 to Sta 26+50

Notes:

- Unless otherwise noted, all stationing used on the detour sheets shall be based off the Florida Canyon-Medium Wash Detour construction centerline.
- Once the new Madera Canyon Road is permanently opened, all components of the detour shall be removed as described per Item No. 9300128. A 12-foot wide dirt road shall be salvaged from the compacted ABC detour section. See Sheet TC1 for the compacted ABC detour removal typical section.

FLORIDA CANYON WASH-MEDIUM WASH
TRAFFIC CONTROL-DETOUR PLAN/PROFILE
STA. 25+00 TO 33+00

Kathryn Skinner, P.E., Director

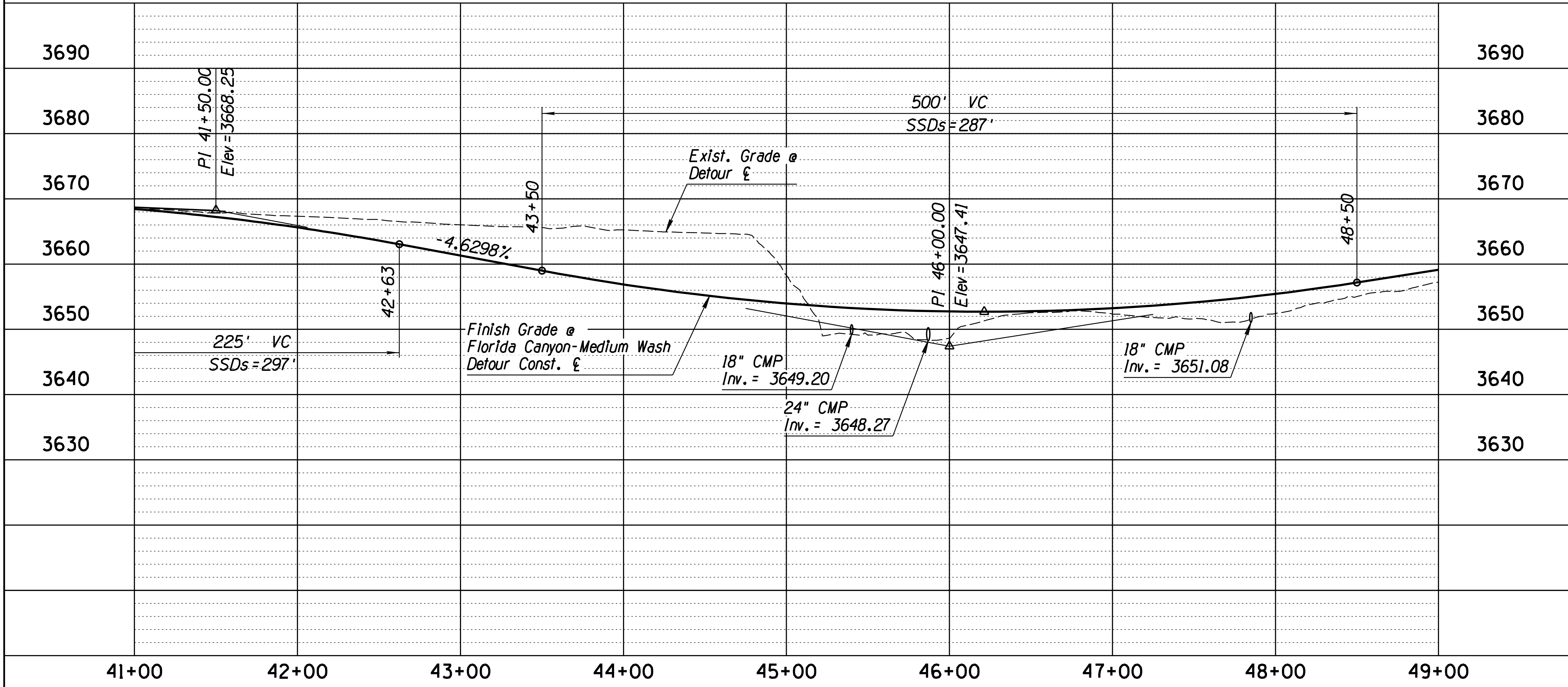
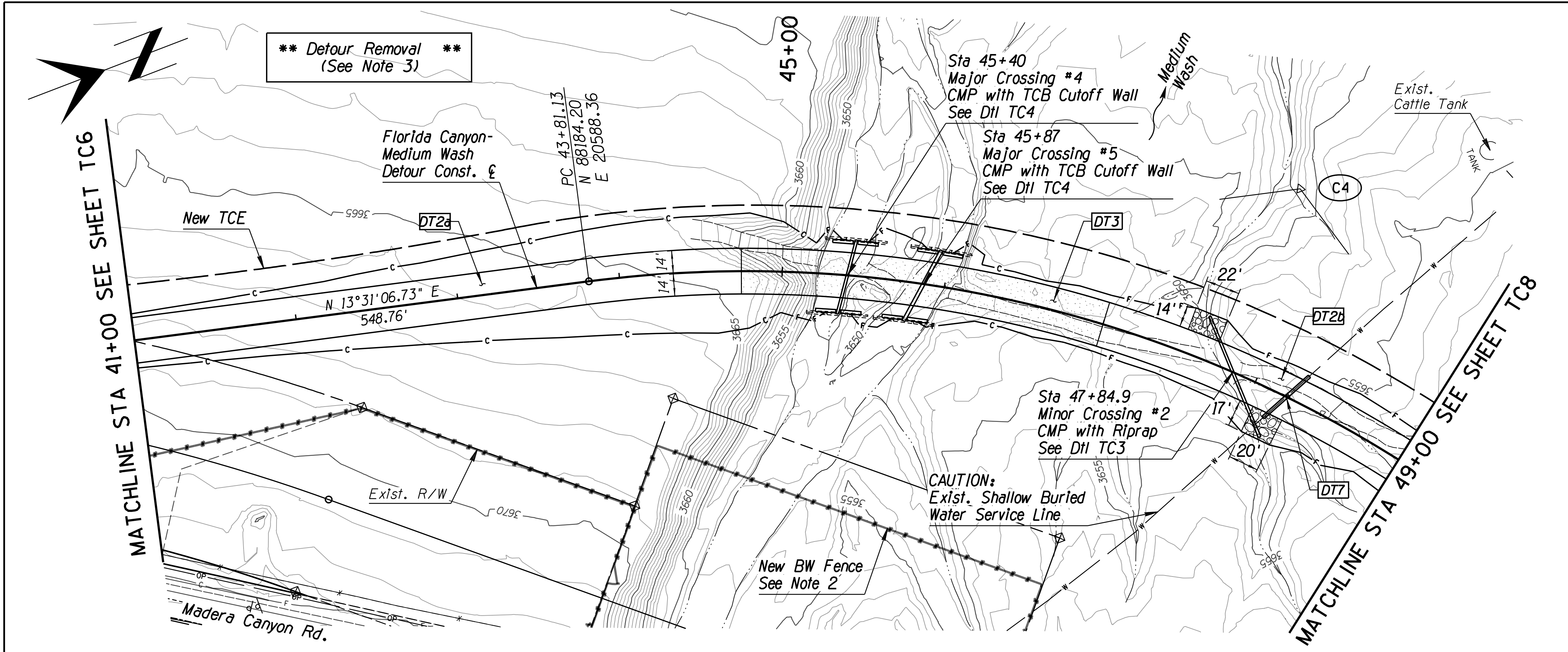
No.	Revision	Description	Engineer	Date

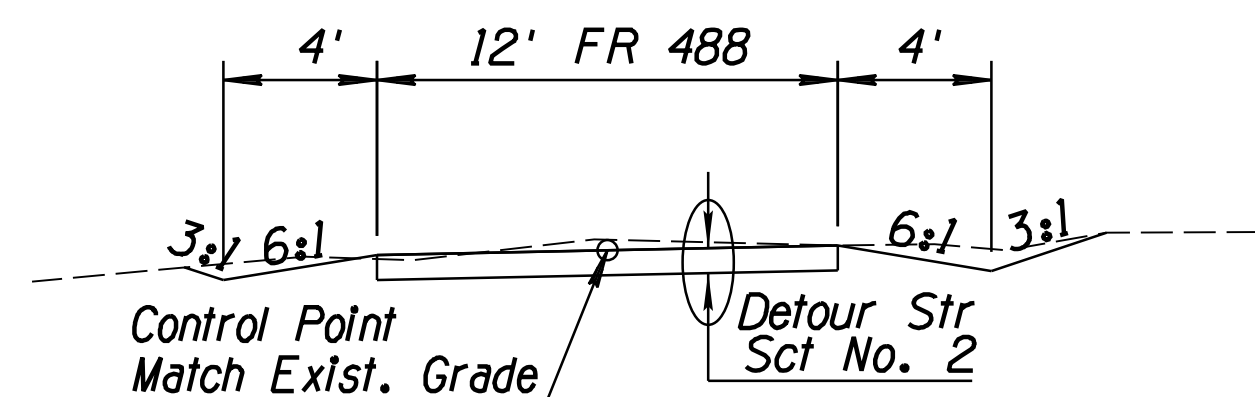
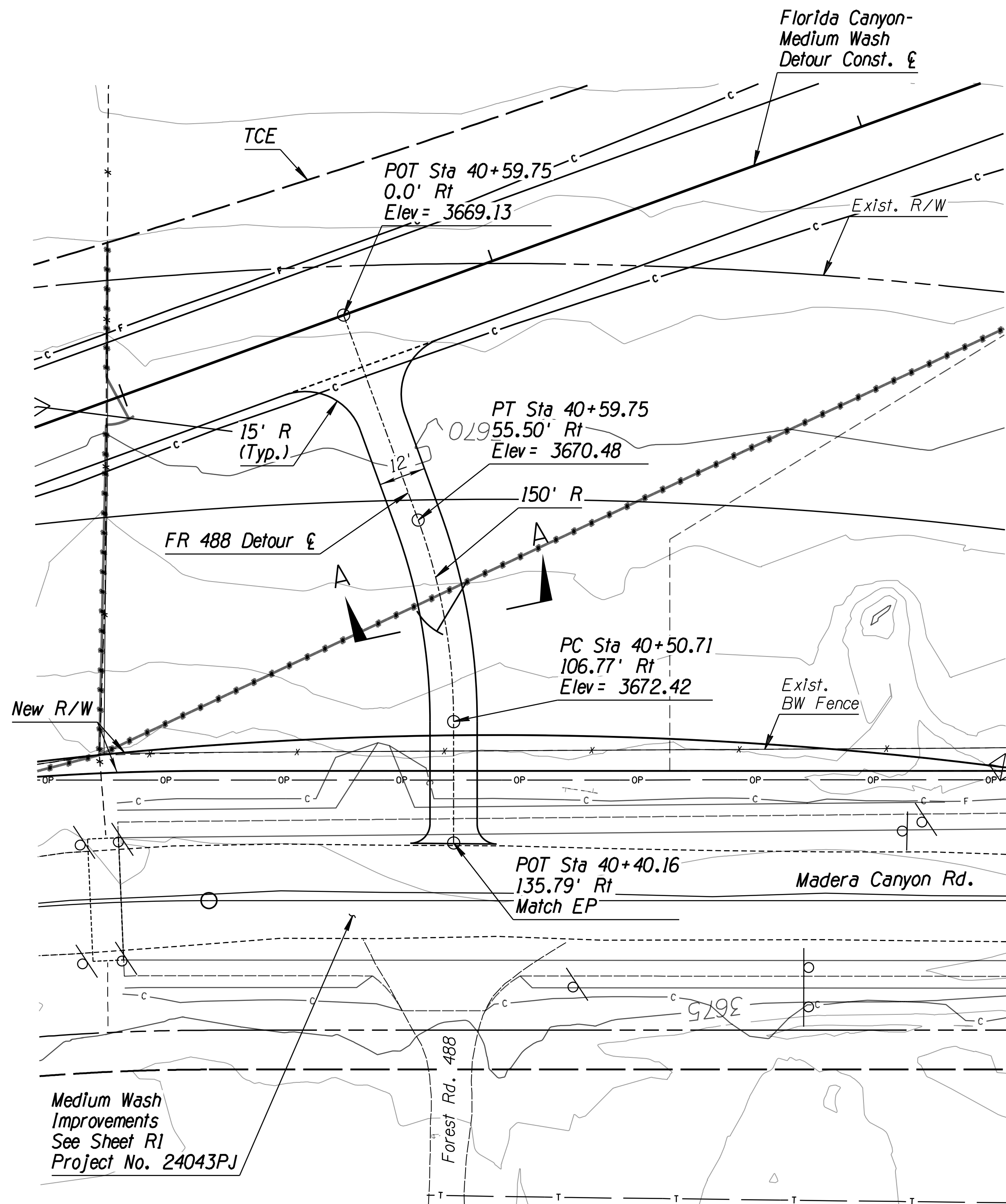
Professional Engineer
43315
RICARDO P. SOLIS
Exp. Date 06/01/2026
ARIZONA, U.S.A.

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PHONE: (520) 207-0742

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

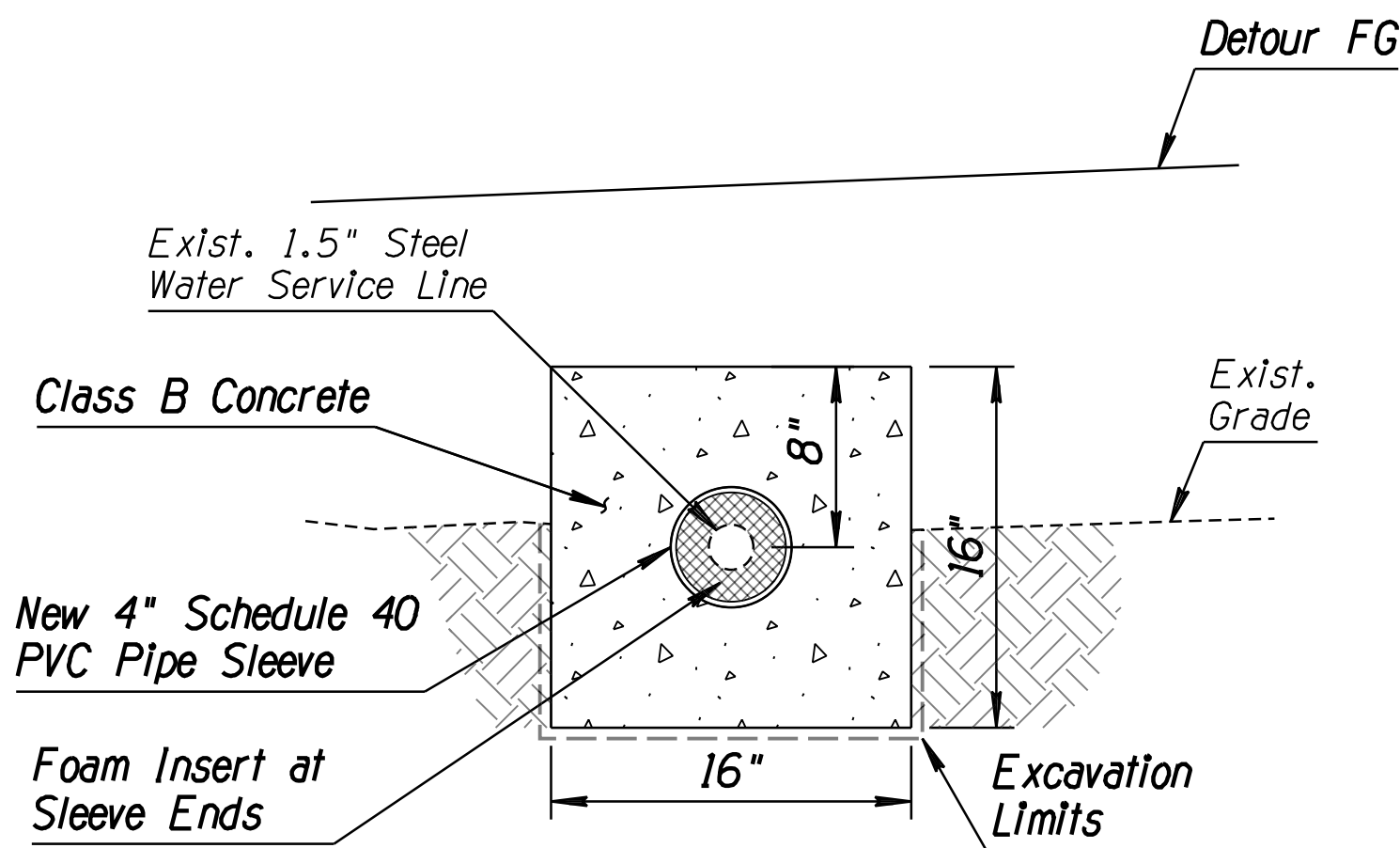
Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)





SECTION A-A
NTS

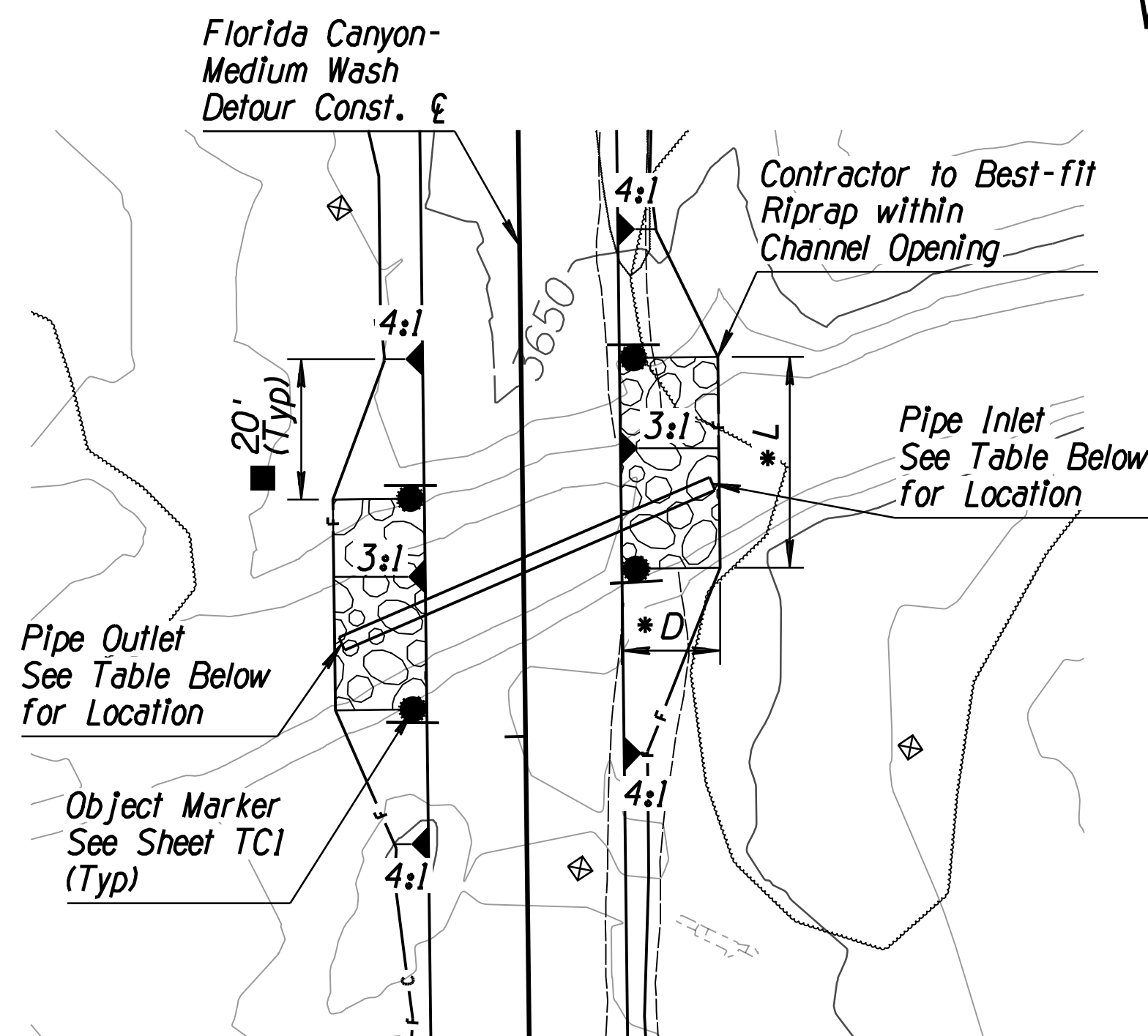
DETAIL TC1
FR 488 DETOUR CONNECTOR



NOTES:

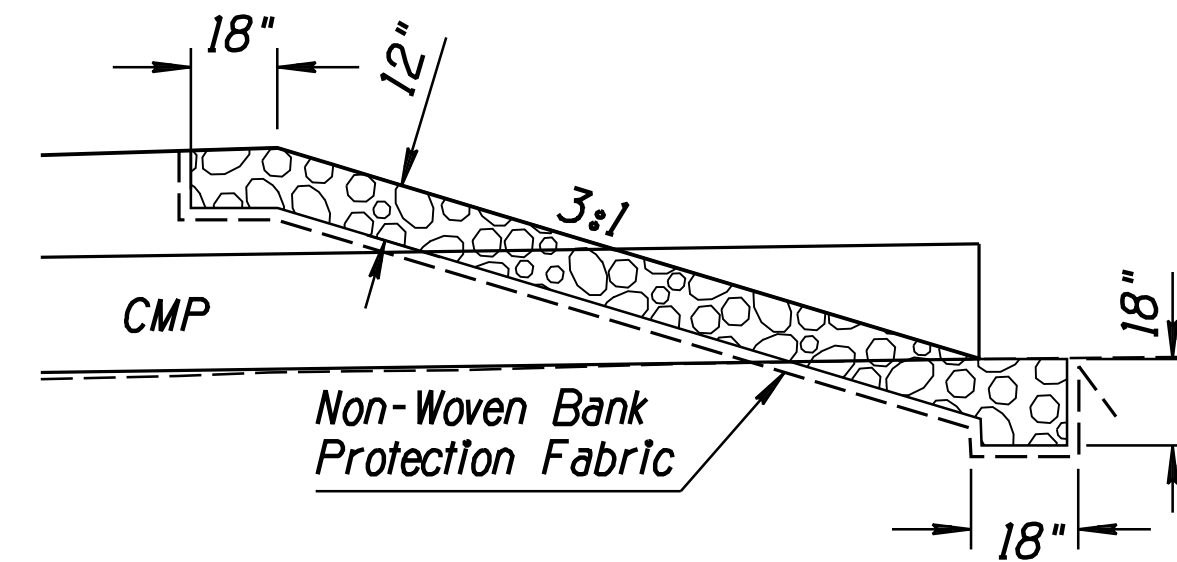
1. See project plans for limits of concrete encased water service line.
2. Water service concrete encasement shall be completed per Item 9300123.

DETAIL TC2
WATER SERVICE CONCRETE ENCASEMENT



TYPICAL MINOR CROSSING INLET/OUTLET
Scale 1"=20'

- Transition Embankment Slope from 4:1 to 3:1 (All Quadrants)
- See Detour Plans for Approximate Dimensions of Riprap Placement.



SECTION A-A
NTS

MINOR CROSSING CMP LOCATION TABLE

CROSSING NUMBER	CMP SIZE	Length	Slope	INLET LOCATION	INLET ELEV.	OUTLET LOCATION	OUTLET ELEV.	SKEW
1	24"	47.5'	1.460%	33+35.66, 27.00' RT	3647.26	33+13.52, 26.00' LT	3646.42	23° LT
2	18"	80.0'	2.987%	48+17.04, 29.29' RT	3652.36	47+59.26, 26.23' LT	3649.97	46° LT

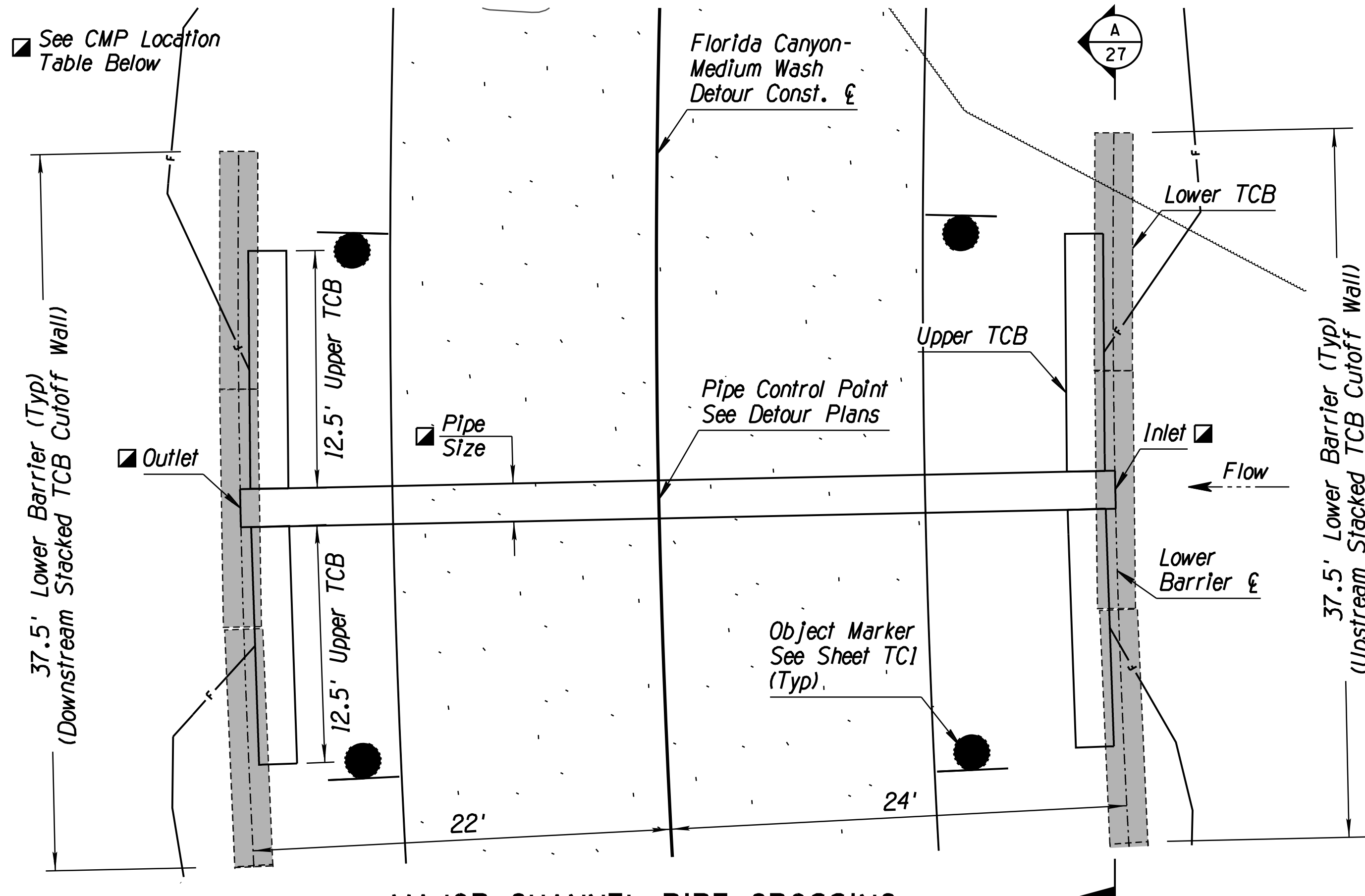
ROCK SIZE (in)	PERCENT GRADATION SMALLER THAN (%)
12"	100 - 90
9"	85 - 70
6"	50 - 30
4"	15 - 5
2"	5 - 0

Dumped Riprap
Gradation Chart (D50=6")

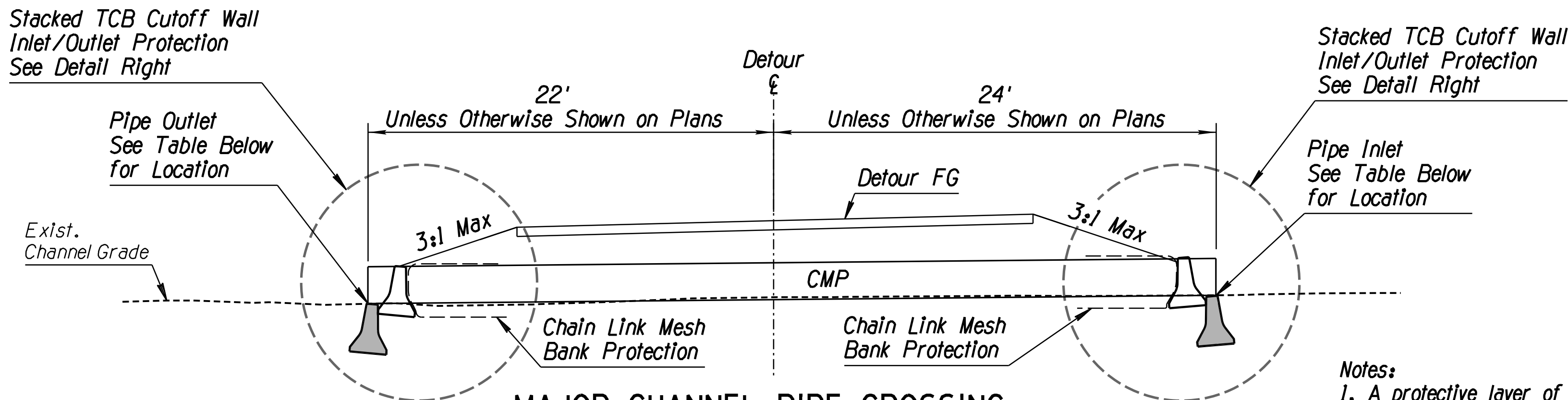
Notes:

1. Removal of CMP, riprap, and bank protection fabric shall be completed per Item 9300128.
2. Riprap color shall be Coronado Brown unless otherwise directed by Pima County.

DETAIL TC3
MINOR CHANNEL CROSSING
CMP WITH RIPRAP
SLOPE PROTECTION



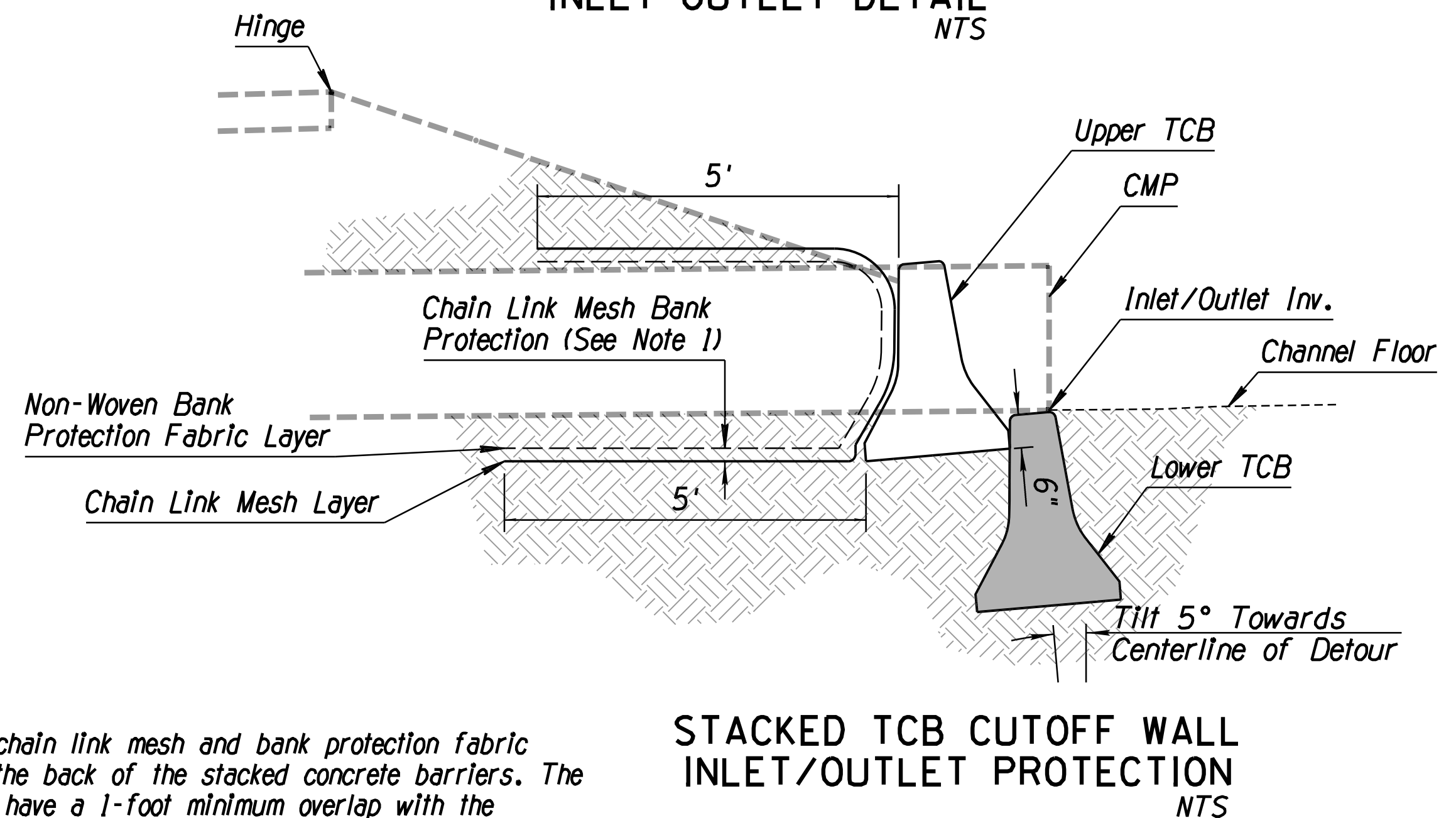
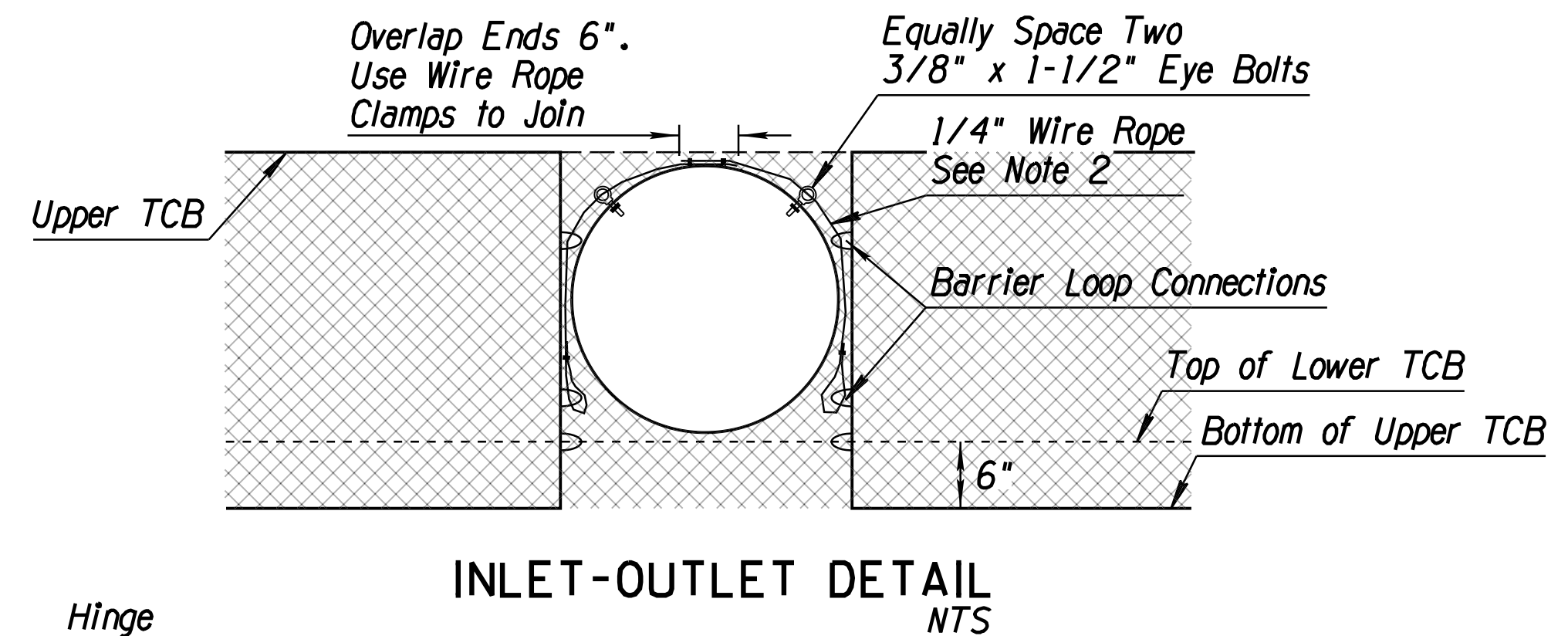
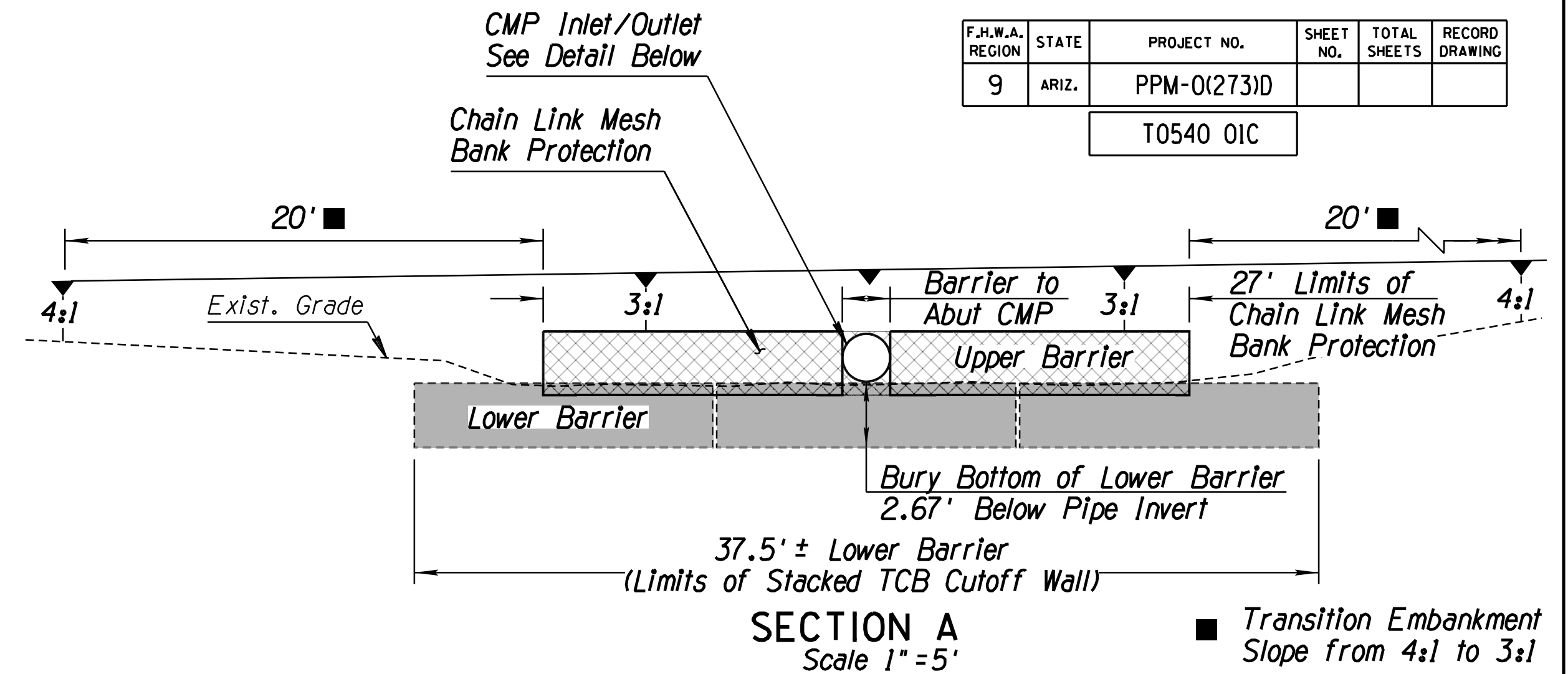
MAJOR CHANNEL PIPE CROSSING
TYPICAL PLAN VIEW
Scale 1" = 5'



MAJOR CHANNEL PIPE CROSSING
TYPICAL PROFILE VIEW

MAJOR CROSSING CMP LOCATION TABLE

CROSSING NUMBER	CMP SIZE	Length	Slope	INLET LOCATION	INLET ELEV.	OUTLET LOCATION	OUTLET ELEV.	SKEW
1	24"	46'	1.348%	23+94.80, 24.00' RT	3653.06	23+98.77, 22.00' LT	3652.44	5° RT
2	24"	46'	2.717%	24+35.00, 24.00' RT	3652.39	24+35.00, 22.00' LT	3651.14	0°
3	24"	49'	2.041%	25+73.83, 24.00' RT	3651.32	25+90.70, 22.00' LT	3650.32	20° RT
4	18"	47'	1.936%	45+35.63, 24.00' RT	3649.67	45+43.77, 22.00' LT	3648.76	10° RT
5	24"	49'	3.163%	45+77.96, 24.00' RT	3649.08	45+94.76, 22.00' LT	3647.53	20° RT



STACKED TCB CUTOFF WALL
INLET/OUTLET PROTECTION
NTS

- Notes:
1. A protective layer of chain link mesh and bank protection fabric shall be installed at the back of the stacked concrete barriers. The chain link mesh shall have a 1-foot minimum overlap with the adjacent section of chain link mesh. A tension wire shall be woven through the overlapped sections and tied with hog ring fasteners at 1.5' C-C.
 2. Anchor 1/4" wire rope to barrier loop connections and thread through eye bolts installed in pipe.
 3. Components of the TCB Cutoff Wall consists of the following items.
Item #9300117 Chain Link Mesh Bank Protection
Item #9300122 Stacked Temp. Conc. Barrier
 4. Removal of CMP and TCB Cutoff Wall shall be completed per Item 9300128.

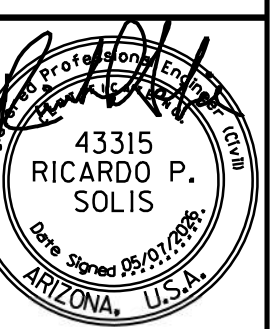
DETAIL TC4
MAJOR CHANNEL CROSSING
CMP WITH TCB CUTOFF WALL

Scales	Horiz. NA	Sheet TC10 of TC10	Page 25 of 80
	Vert. NA		

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
05/2026	R. Solis	J. Dana, B. Hosack	M. Chamberlain, R. Solis	R. Solis
05/2026				
05/2026				

No.	Revision	Description	Engineer	Date

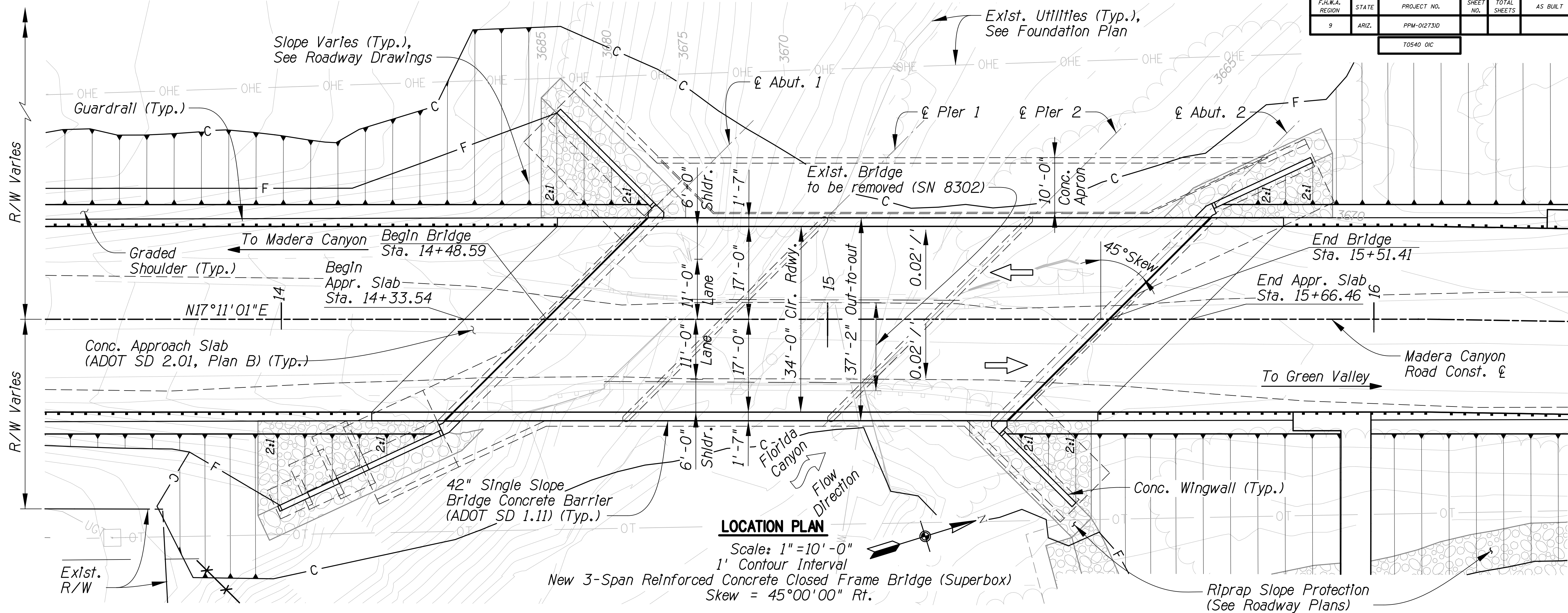


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PHONE: (520) 207-0742

Pima County Department of Transportation

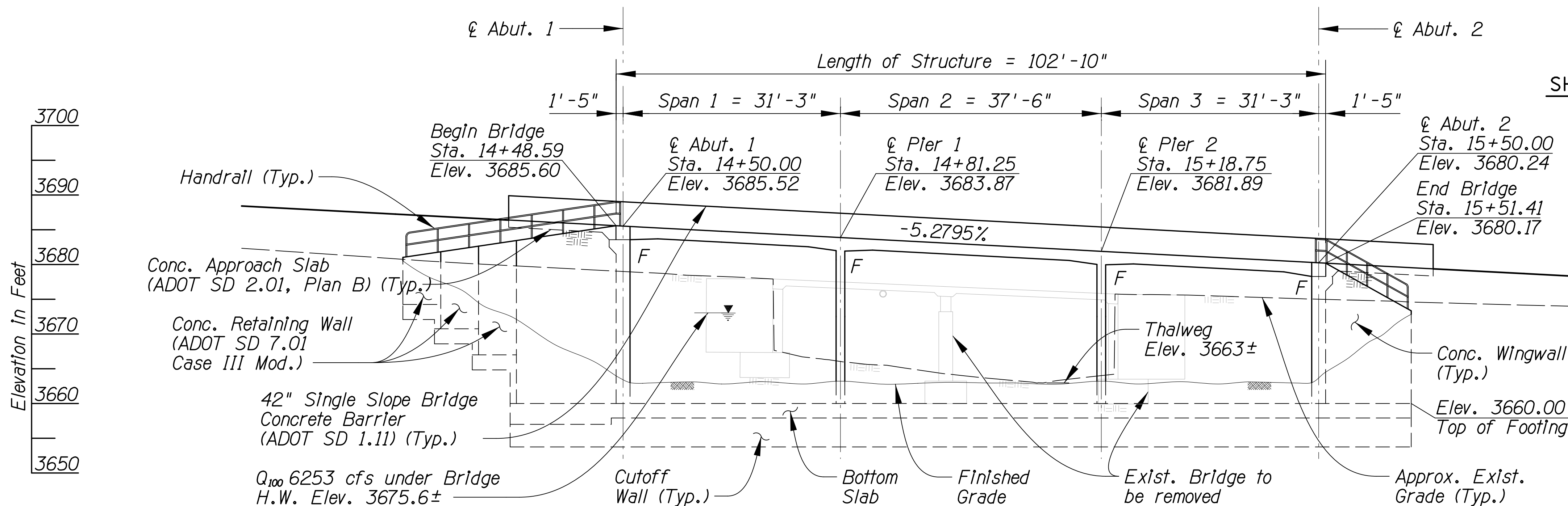
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



LOCATION PLAN

Scale: 1"=10'-0"
1' Contour Interval
New 3-Span Reinforced Concrete Closed Frame Bridge (Superbox)
Skew = 45°00'00" Rt.



ELEVATION

Scale: 1"=10'-0"

SHEET INDEX

SHEET NO.	TITLE
B1	Plan & Elevation
B2	Typical Section & Quantities
B3	General Notes
B4	Excavation & Backfill
B5	Foundation Plan & Notes
B6	Abutment Footing Details
B7	Abutment 1 Plan & Elevation
B8	Abutment 2 Plan & Elevation
B9	Abutment & Wingwall Details 1
B10	Abutment & Wingwall Details 2
B11	Abutment & Wingwall Details 3
B12	Bottom Slab Details
B13	Pier Details
B14	Deck Slab Details
B15	Camber & Screed Elevations
B16-B19	Foundation Data Sheets



PLAN & ELEVATION

GENERAL NOTES:

Design Specifications

AASHTO LRFD Bridge Design Specifications, 9th Edition 2020 except as superseded by ADOT Bridge Design Guidelines.

Construction Specifications

Pima Association of Governments (PAG) Standard Specifications for Public Improvements 2015 Edition and the Special Provisions.

Design Loadings

Dead Load - Dead Load Includes allowance of 25 pounds per square foot (psf) for future wearing surface.

Live Load - AASHTO HL-93.

Hydraulic Design Criteria

Final Drainage Report provided by HDR Engineering, Inc. for Pima County Department of Transportation Project No. 24043PJ (HDR Project No. 10416569), March 2026.

Q₁₀₀ is based on the 100-yr precipitation levels increased by 15% in accordance with Pima County Flood Control Technical Policy, TECH-010.

Q₁₀₀ = 6253 cfs, V₁₀₀ = 14.9 fps, H.W. Elevation = 3675.6
Q₅₀₀ = 6290 cfs, V₅₀₀ = 14.9 fps, H.W. Elevation = 3675.6

Concrete and Reinforcement Strengths

Superstructure except Barriers (Class X) f'c = 4500 psi
Abutments, Pier Walls, Bottom Slab, Wingwalls, f'c = 3500 psi
Concrete Apron, and Cutoff Walls (Class S)
Approach Slabs and Barriers (Class S) f'c = 4000 psi
Grade 60 Reinforcing Steel fy = 60,000 psi
Grade 60 Longitudinal Deck Reinforcing Steel fs = 28,000 psi

Reinforcing steel shall conform to ASTM A615. All reinforcing shall be furnished as Grade 60.

All Mechanical splices of reinforcing steel shall develop 125% of the yield strength of the reinforcing bar and shall conform to the requirements for mechanical connections in Section 605-3.02 of the Standard Specifications.

All bends/hooks shall meet the requirements of AASHTO LRFD, Article 5.10.2.
All bend dimensions for reinforcing steel shall be out-to-out of bars.
All placement dimensions for reinforcing steel shall be to center of bars, unless noted otherwise.

All reinforcing shall have 2 inch clear cover, unless noted otherwise.

Concrete Barriers & Parapets

Concrete barriers shall be constructed after concrete deck falsework has been removed.

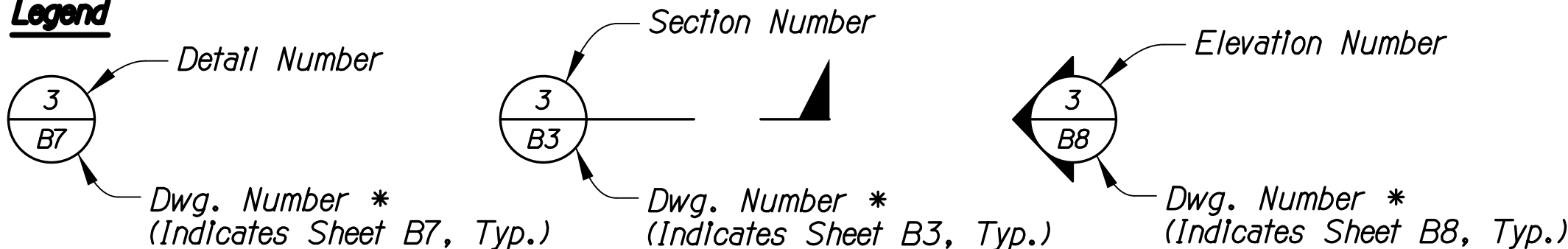
Concrete barriers shall not be slip formed.

Dimensions

Dimensions shall not be scaled from drawings. All dimensions are in feet and inches and all stations and elevations are in feet.

Vertical dimensions are measured plumb, unless noted otherwise.

Legend



* "-" Indicates Section or Detail is located on same drawing.

Construction Joints

All roughened construction joints to be roughened to 1/4" minimum amplitude.

Coordination

Contractor shall coordinate all existing conditions during construction of project. Utility information shown on the plans may not be complete or accurately depict the location of the facilities shown. The contractor shall coordinate the location of all existing, new, relocated, and abandoned utilities with the project plans and notify respective owners before commencing the work of excavation. Conflicts shall be brought to the attention of the Engineer and resolved prior to proceeding with the work.

Chamfer

All exposed corners shall be chamfered 3/4" unless noted otherwise. See Chamfer Detail this Sheet.

Standard Drawing List

ADOT Bridge Group SD Drawings - SD 1.11, SD 2.01, and SD 7.01.
PAG Standard Detail Drawings - Std. Dtl. 105.

Inventory and Operating Rating

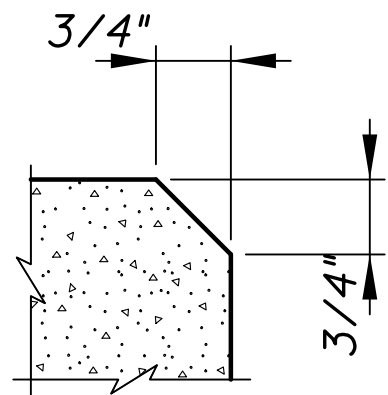
Inventory and operating ratings for HL-93 are in accordance with AASHTO Manual for Bridge Evaluation, 3rd Edition 2018 with Interim Revisions through 2019 and with the Load and Resistance Factor Rating Method.
Inventory Load Rating Factor: 1.65
Operating Load Rating Factor: 2.14

Existing Bridge Removal

The existing Madera Canyon Road Bridge at Florida Canyon Wash (Structure No. 8302) is a two-span cast-in-place slab bridge constructed in 1935. The Contractor shall remove the existing bridge. See Special Provisions.

Seismic

The bridge site is Site Class C with peak ground acceleration (PGA) = 0.069g and horizontal response spectral acceleration coefficient at 0.2 sec return period (S_s) of 0.158g, and horizontal response spectral acceleration coefficient at 1.0 sec return period (S₁) of 0.046g. The bridge site is classified as Seismic Zone 1.

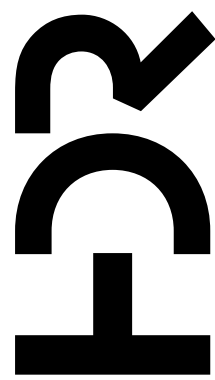
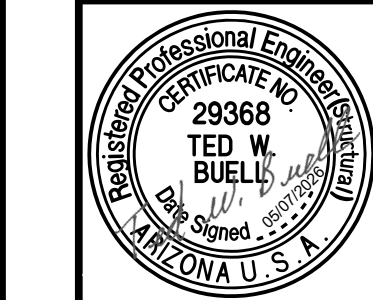


Chamfer all exposed corners thus unless otherwise noted.
This note applicable to all sheets pertaining to the structure.

CHAMFER DETAIL
No Scale



GENERAL NOTES



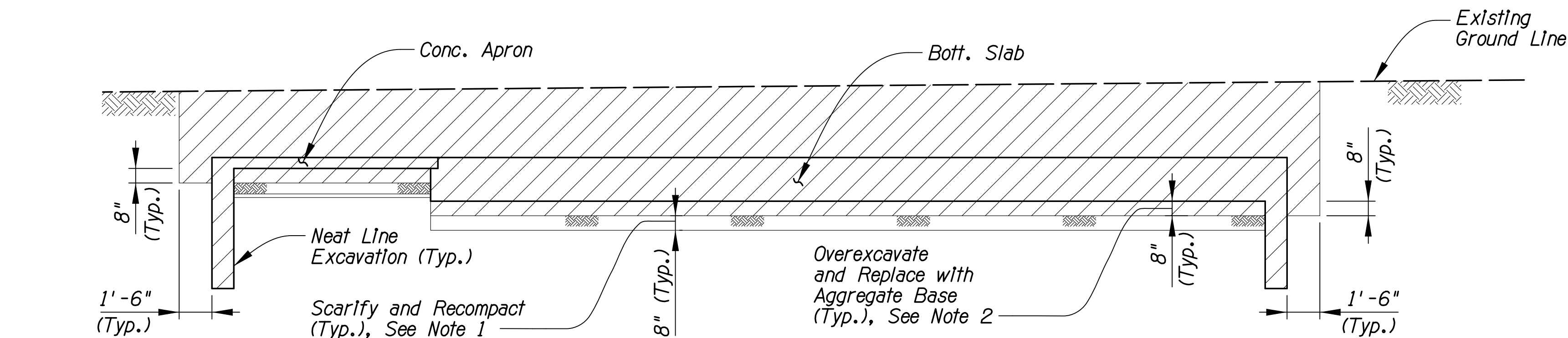
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOT000R.TBL
PlotDriver: 10416569_V8FULL-8xW-PDF.plt

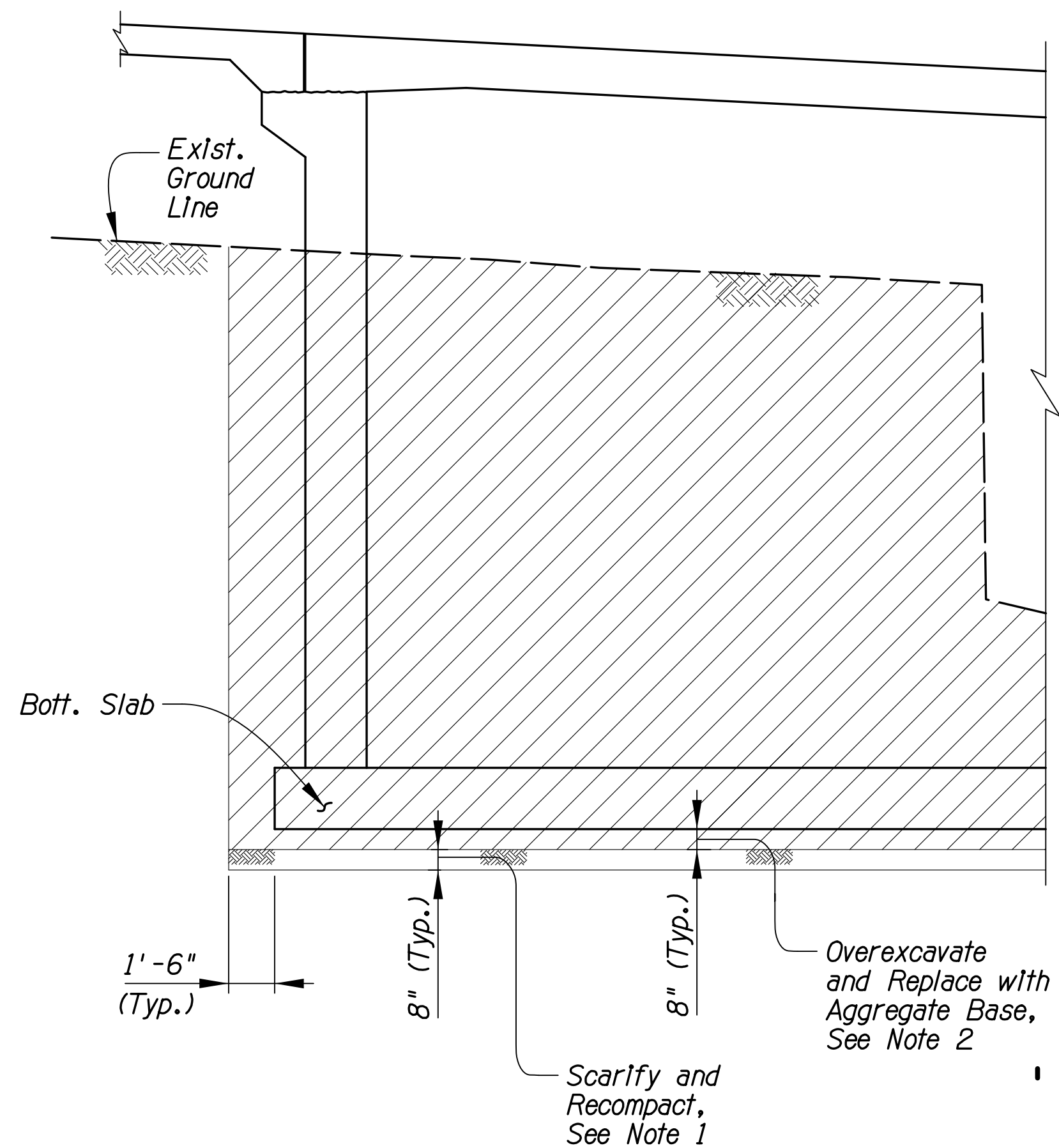


TYPICAL TRANSVERSE SECTION

STRUCTURAL EXCAVATION LIMITS

Scale: 1/4"=1'-0"

1

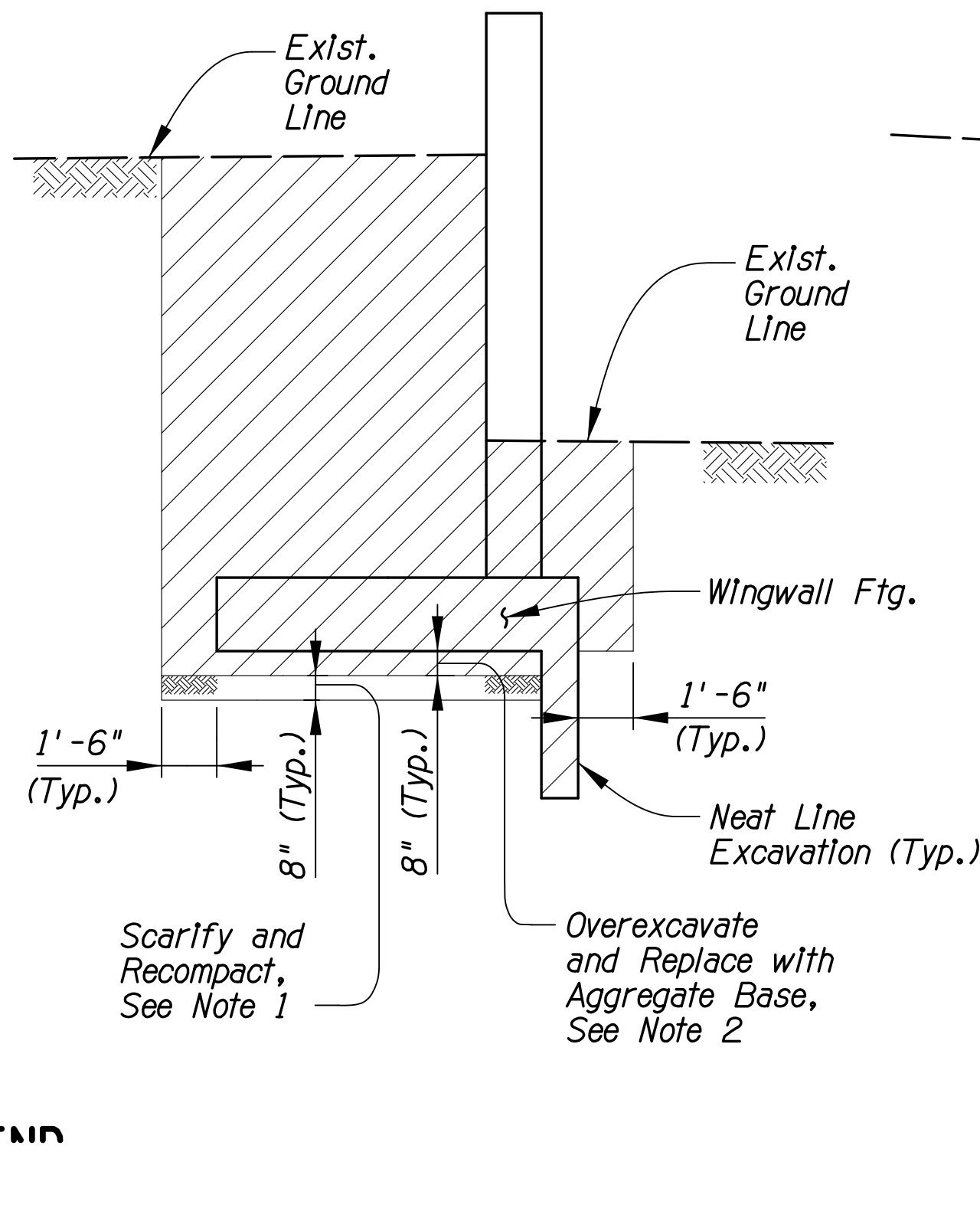


STRUCTURAL EXCAVATION - ABUTMENT

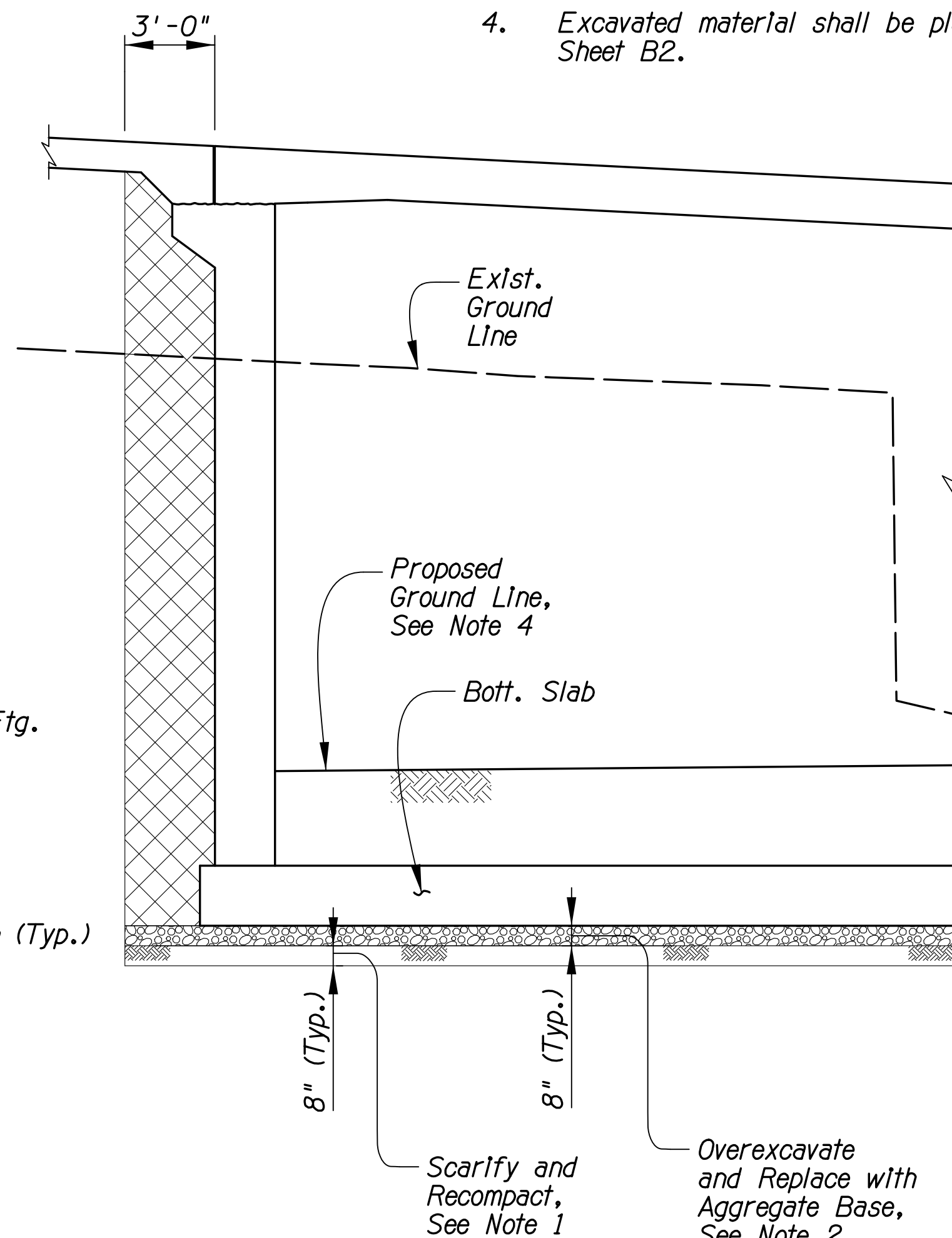
STRUCTURAL EXCAVATION LIMITS

Scale: 1/4"=1'-0"

2



STRUCTURAL EXCAVATION - WINGWALL

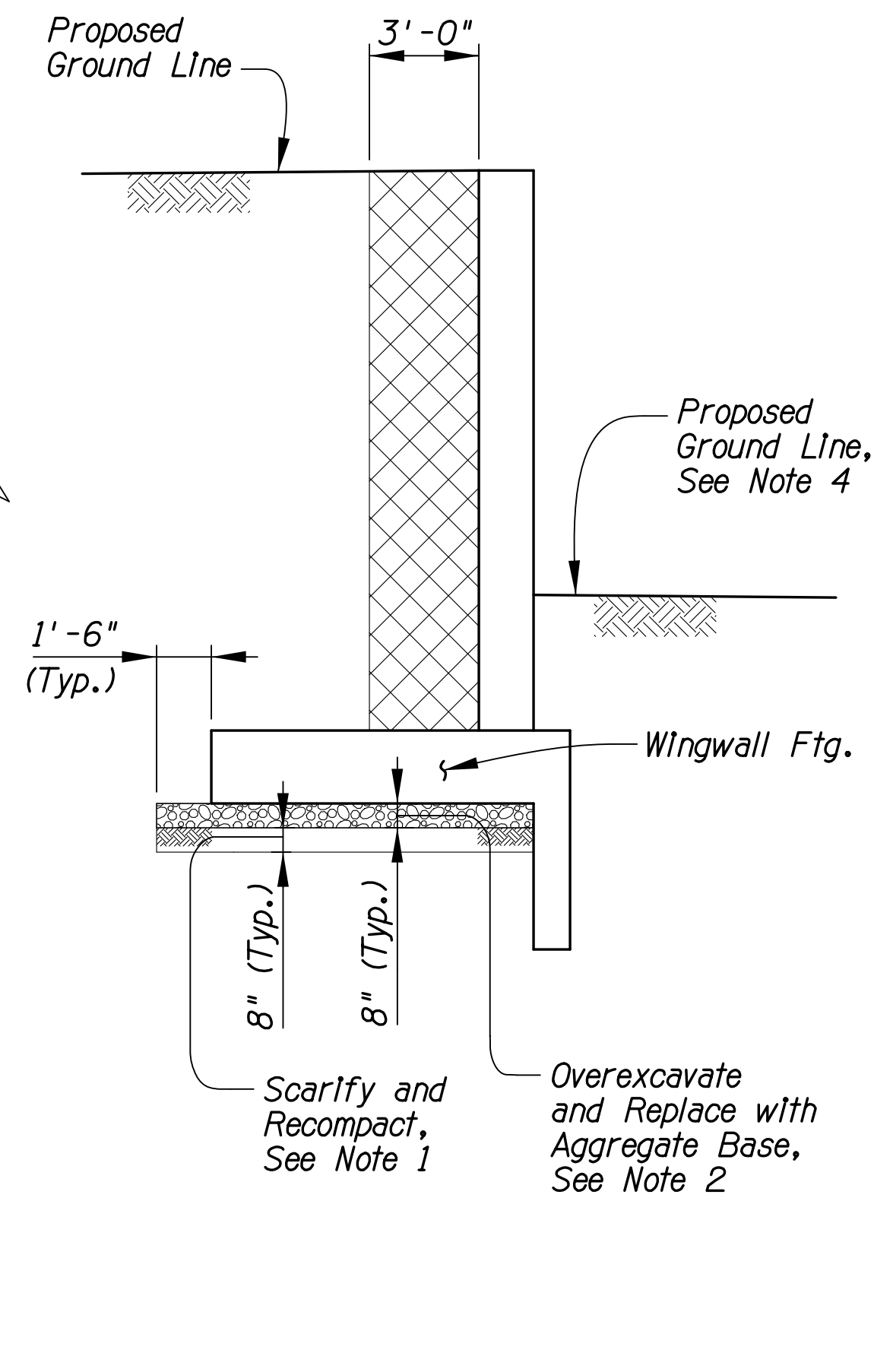


STRUCTURE BACKFILL - ABUTMENT

STRUCTURE BACKFILL LIMITS

Scale: 1/4"=1'-0"

3



STRUCTURE BACKFILL - WINGWALL

LEGEND:

Structural Excavation

Structure Backfill

Notes:

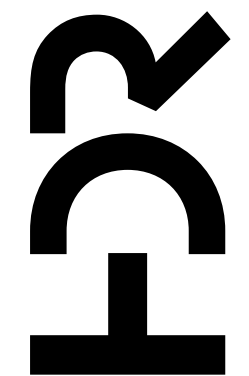
- The top 8" of the soil at the bottom of the excavation shall be moisture-conditioned and compacted to a density of not less than 100% and within $\pm 2\%$ optimum moisture content of the maximum dry density as determined in accordance with the requirements of Arizona Test Method 225.
- Aggregate Base shall conform to Section 303 of the PAG Standard Specifications and shall be compacted to a density of not less than 100% and within $\pm 2\%$ optimum moisture content of the maximum dry density as determined in accordance with the requirements of Arizona Test Method 225.
- Structural excavation, overexcavation, structure backfill, scarification, moisture conditioning, and recompaction are not direct pay items in this contract and shall be considered incidental to the bridge construction. Aggregate Base Course shall be paid for by the cubic yard under Item 3030003.
- Excavated material shall be placed back over the new bottom slab. See Note 4 on Sheet B2.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540_OIC					

Kathryn Skinner, P.E., Director

Date	Drawn	Checked	Proj. Engr.
04/2026	TRK	DL	TWB
04/2026			
04/2026			

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

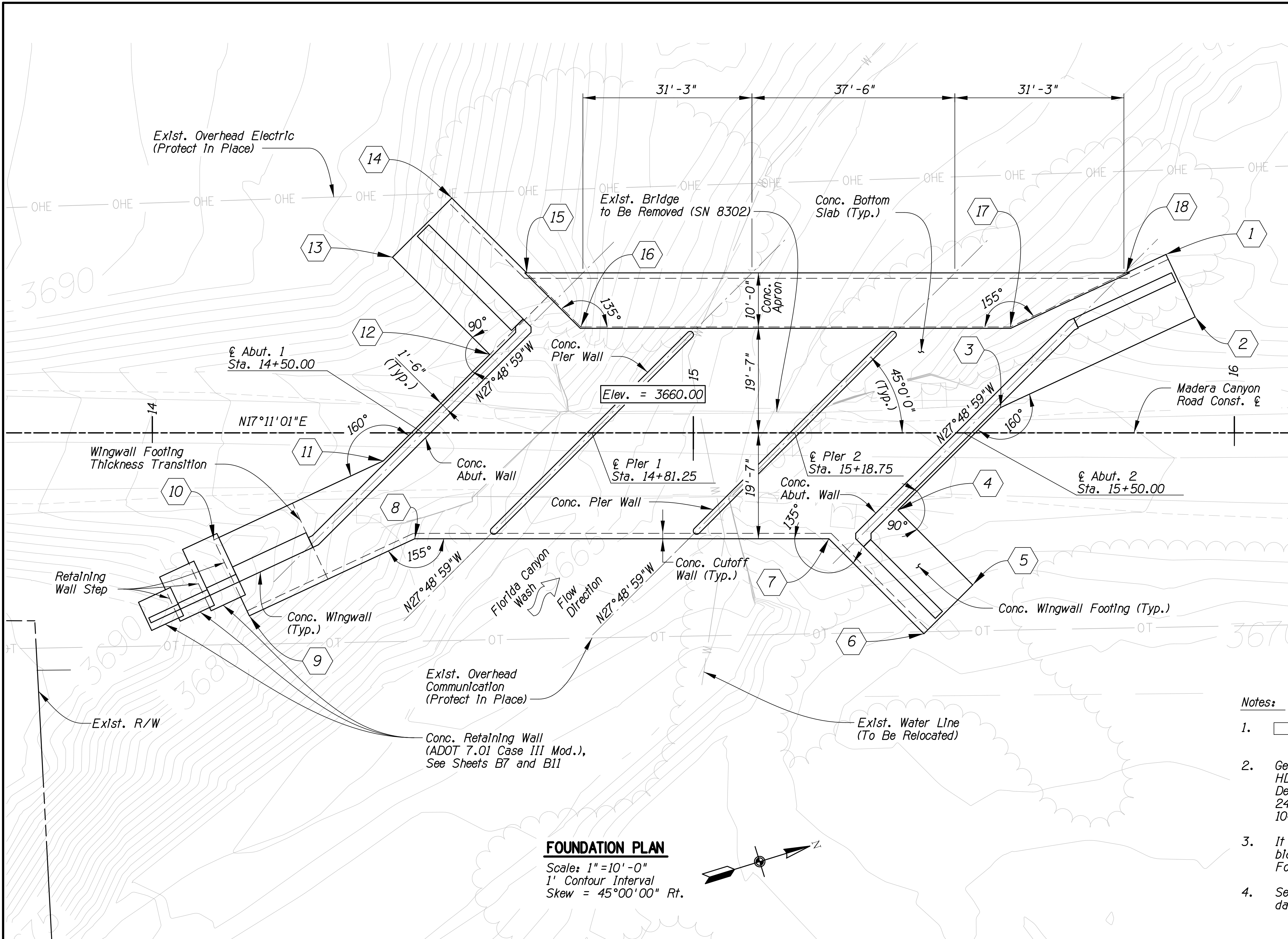
Pima County Department of Transportation



EXCAVATION & BACKFILL

Scales	Horiz.	Sheet	Page
	Vert.	B4 of B19	29 of 80

Project ID: 10416569
Client Number: 4108
Pentable: COTPMAL-PL0100RD.R.TBL
Plotdriver: 10416569_V8FULL-B&W-PDF.plt



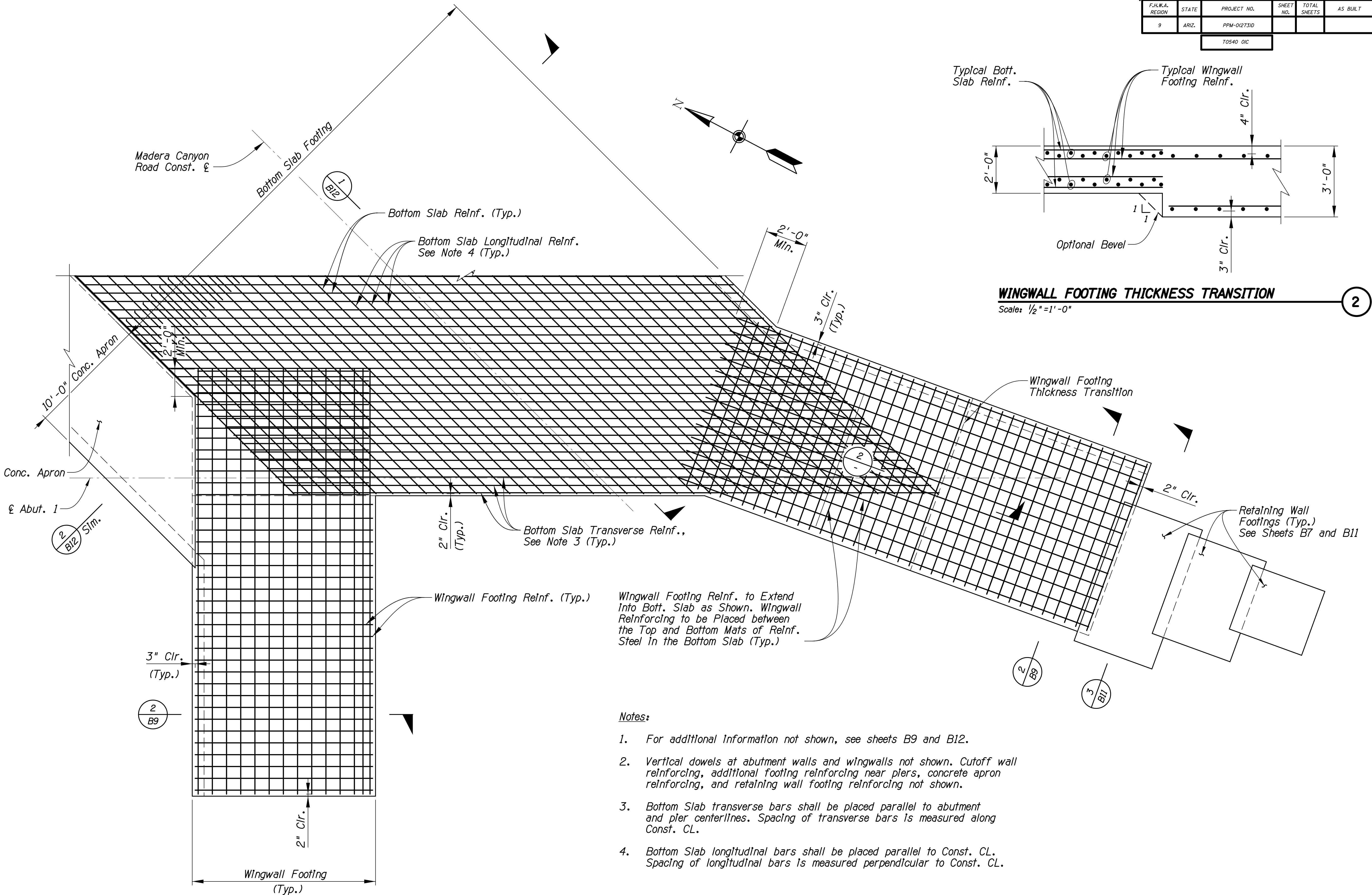
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Client Number: 4108
Pentable: COTPMALPLOT000R.TBL
Plotdriver: 10416569_V8FULL_L&W_PDF.plt

Printed By: GSAPHIR

Date: 5/7/2026

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ABUTMENT AND WINGWALL FOOTING REINFORCEMENT PLAN

(Abut. 1 shown, Abut. 2 similar)
Scale: 1/4" = 1'-0"

Notes:

- For additional information not shown, see sheets B9 and B12.
- Vertical dowels at abutment walls and wingwalls not shown. Cutoff wall reinforcing, additional footing reinforcing near piers, concrete apron reinforcing, and retaining wall footing reinforcing not shown.
- Bottom slab transverse bars shall be placed parallel to abutment and pier centerlines. Spacing of transverse bars is measured along Const. CL.
- Bottom slab longitudinal bars shall be placed parallel to Const. CL. Spacing of longitudinal bars is measured perpendicular to Const. CL.



ABUTMENT FOOTING DETAILS

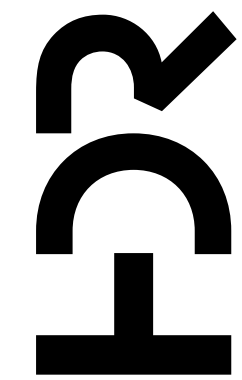
Scales Horiz. Sheet B6 of B19 Page 31 of 80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540_OIC					

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
04/2026	GWS	TRK	DL	TWB
04/2026				
04/2026				

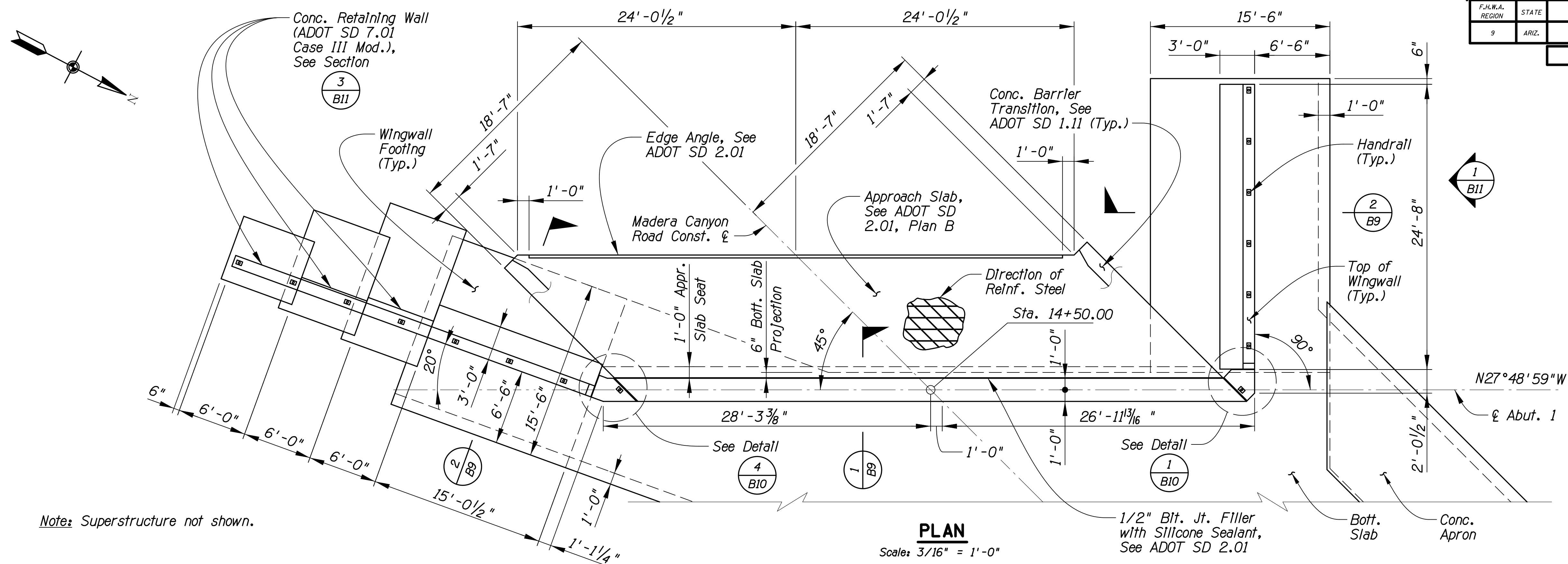
No.	Revision	Description	Engineer	Date



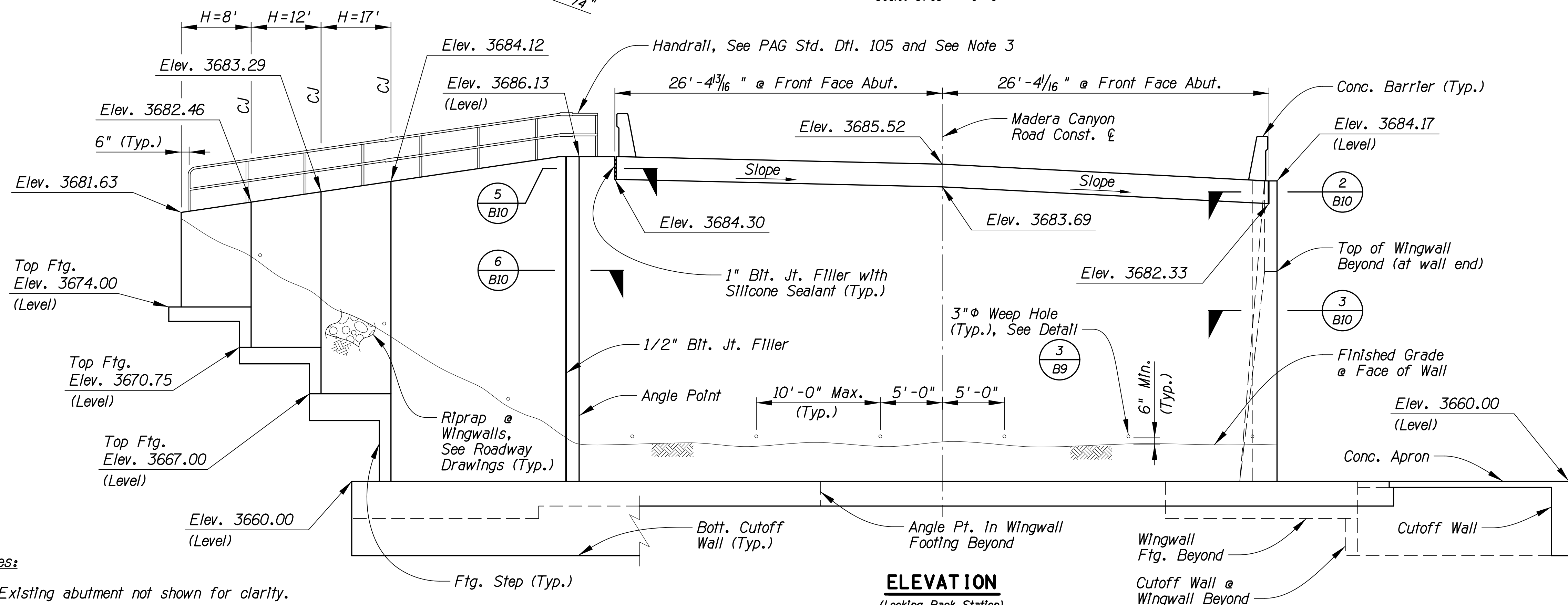
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



Note: Superstructure not shown.



Notes:

1. Existing abutment not shown for clarity.
2. Elevations are provided at abutment centerline and front face of wingwall.
3. For PAG Std. Dtl. 105, place lower rail in Alternate Location and use End Treatment A at end of wall and End Treatment B adjacent to concrete bridge barrier. Provide angle point in handrail at top of wall near joint between wingwall and abutment wall, to match into end post on abutment.
4. CJ = Construction Joint. See ADOT SD 7.01 Sheet 2 of 5 for CJ details (slm.).

ELEVATION
(Looking Back Station)
Scale: $3/16" = 1'-0"$



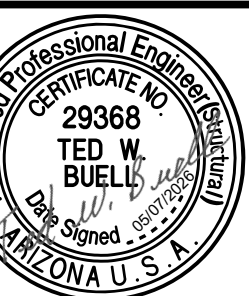
ABUTMENT 1 PLAN & ELEVATION

Scales	Horiz.	Sheet B7 of B19	Page 32 of 80
	Vert		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0(273)D			
		T0540 OIC			

Designed	GWS	04/2026
Drawn	TRK	04/2026
Checked	DL	04/2026
Proj. Engr.	TWB	04/2026

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 2404IPJ

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

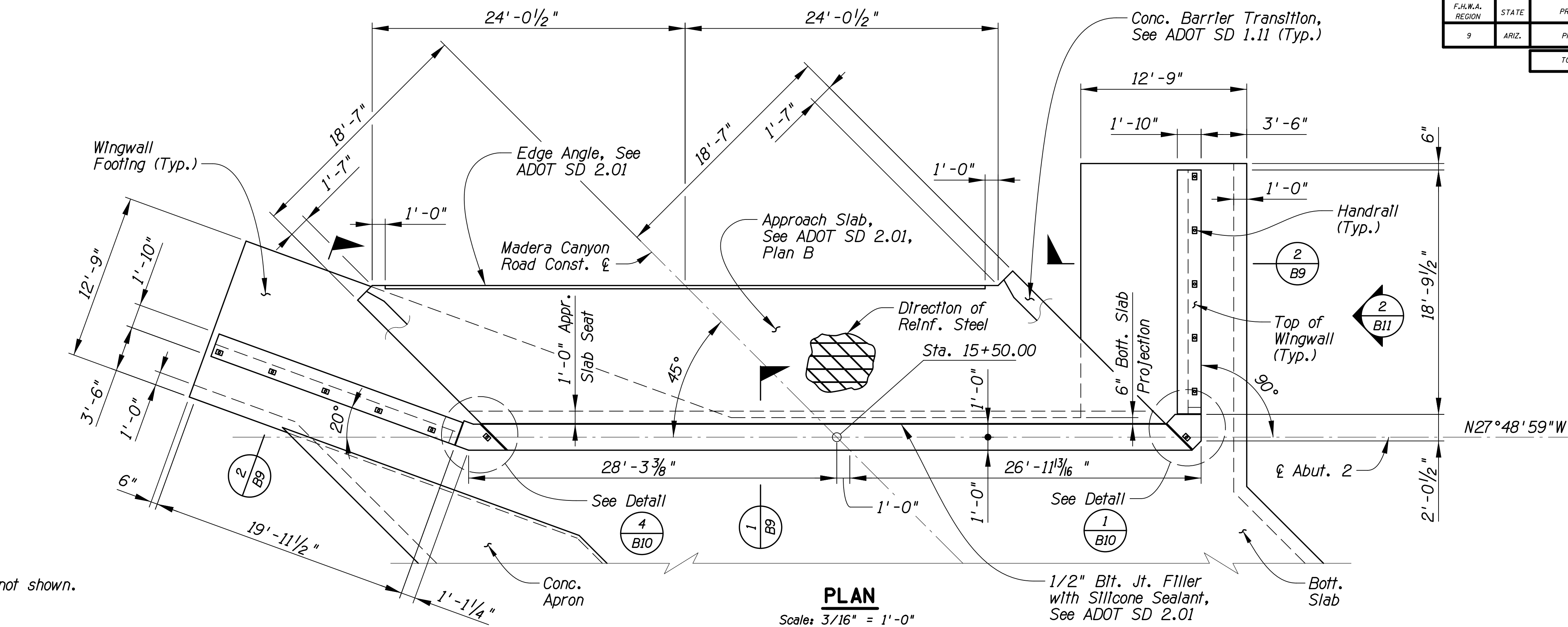
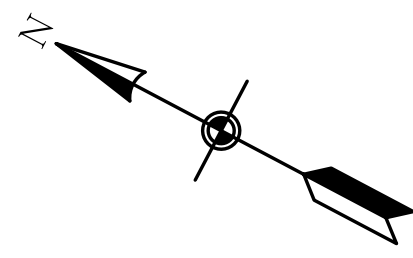
Project ID: 10416569
Client Number: 4108
Pentable: COTPA-PL010PDR.TBL
Plotdriver: 10416569_V8FULL-B&W-PDF.plt

Printed By: GSAPHIR

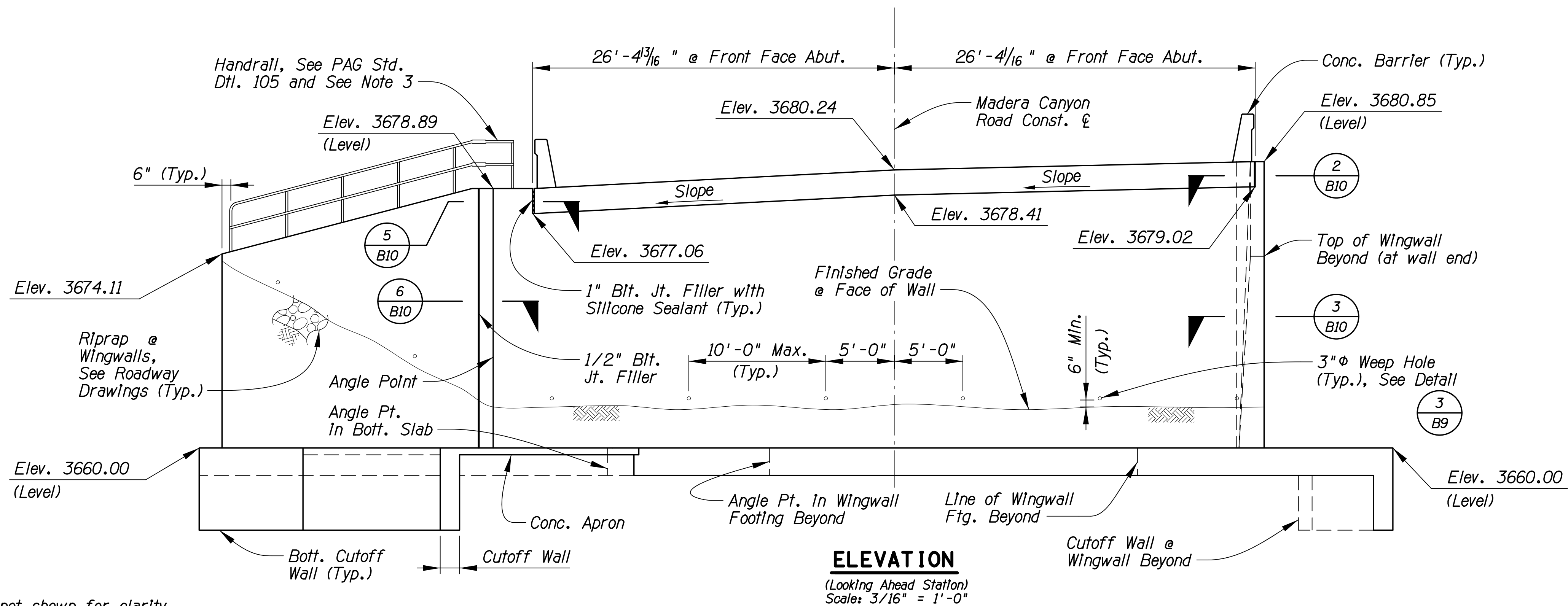
Date: 5/7/2026

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...\\Bridge\\005-ab02FL.dgn



Note: Superstructure not shown.



Notes:

- Existing abutment not shown for clarity.
- Elevations are provided at abutment centerline and front face of wingwall.
- For PAG Std. Dtl. 105, place lower rail in Alternate Location and use End Treatment A at end of wall and End Treatment B adjacent to concrete bridge barrier. Provide angle point in handrail at top of wall near joint between wingwall and abutment wall, to match into end post on abutment.



ABUTMENT 2 PLAN & ELEVATION

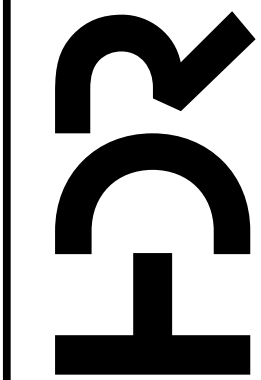
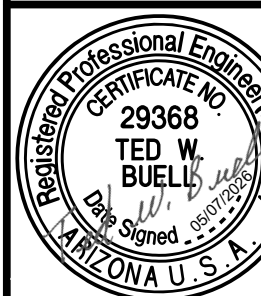
Scales Horiz. _____ Sheet B8 of B19 Page 33 of 80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540_OIC					

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
04/2026	GWS	TRK	DL	TWB
04/2026				
04/2026				

No.	Revision	Description	Engineer	Date

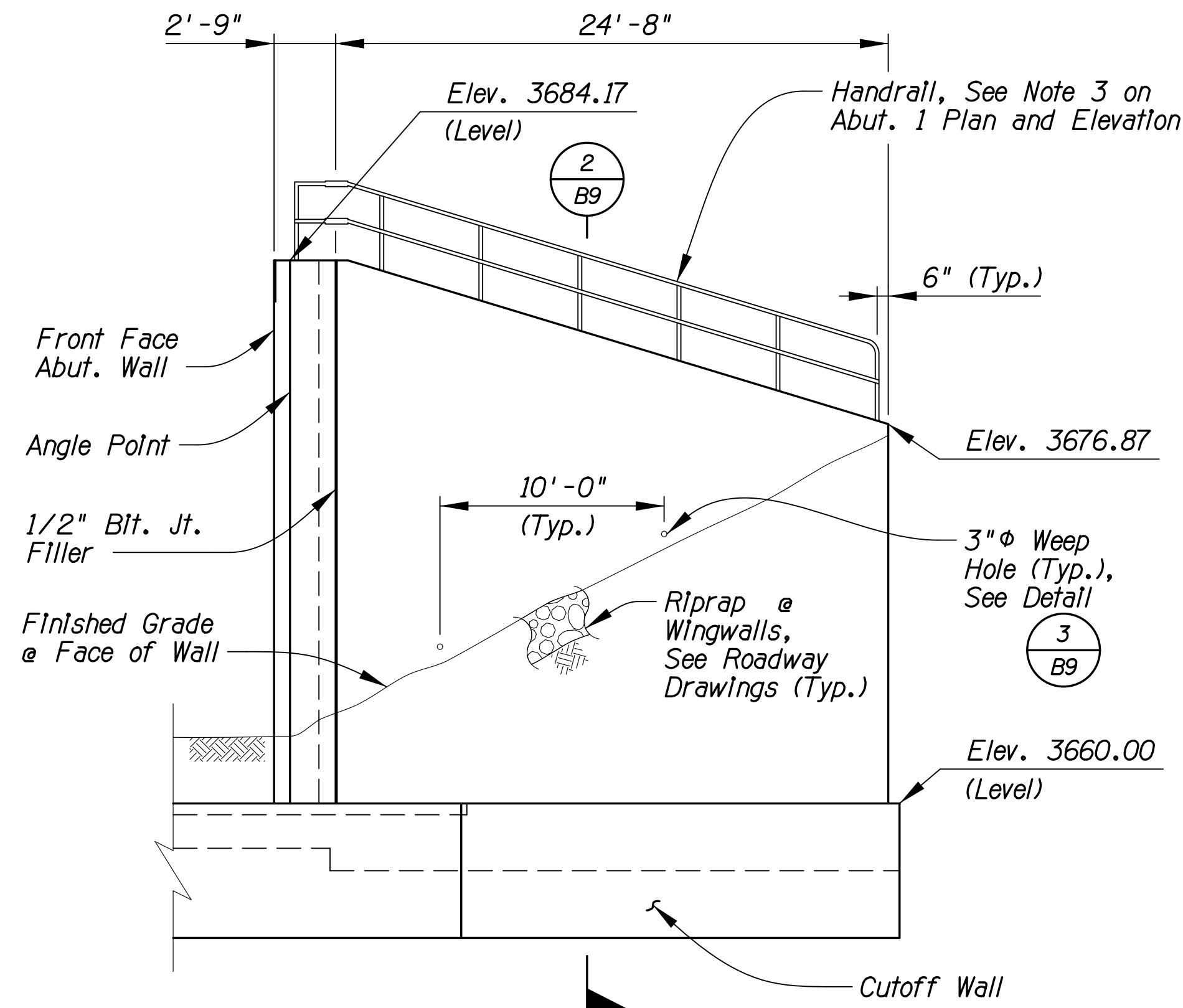


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

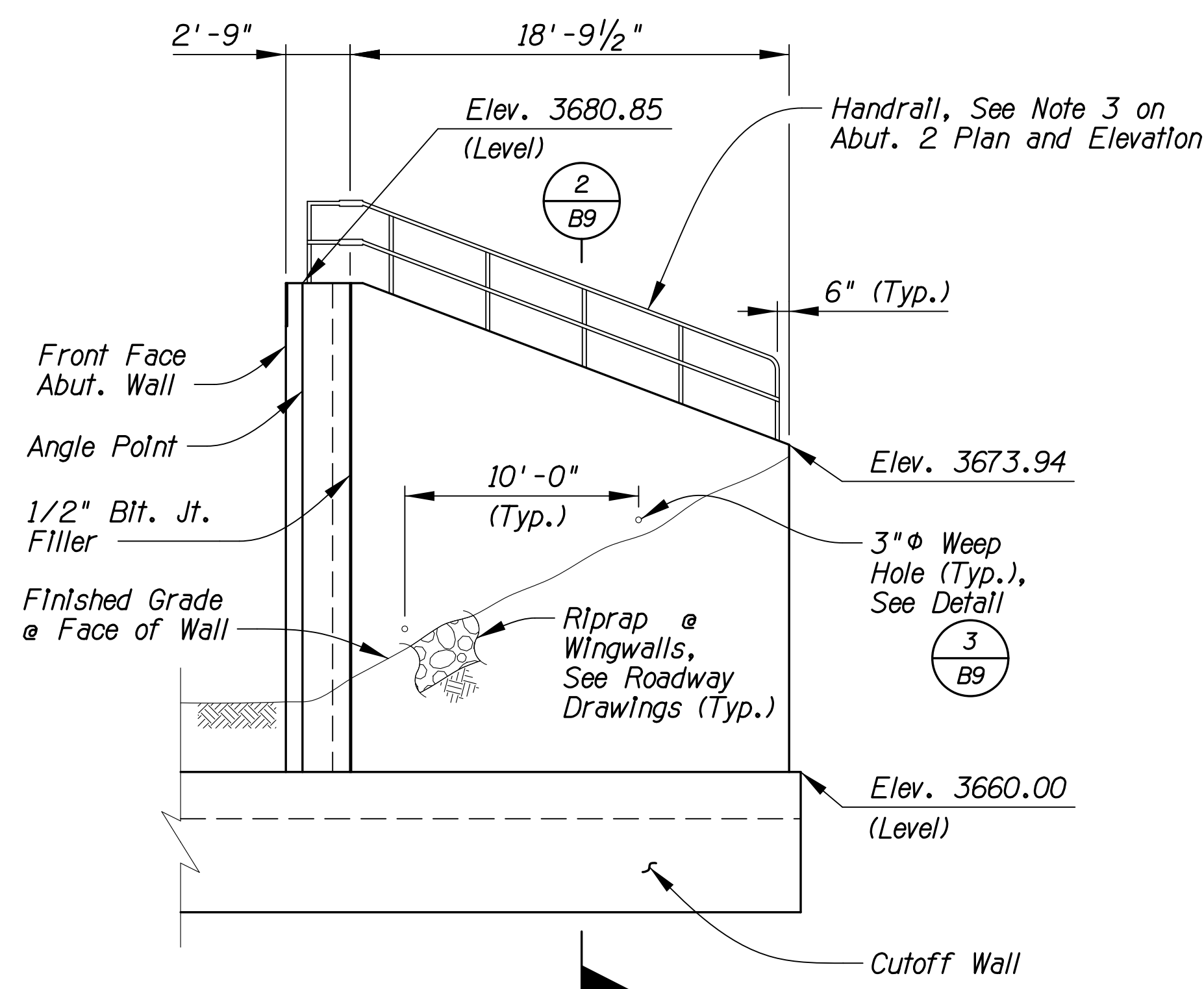
Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOT000DR.TBL
Plotdriver: 10416569_V8FULL-B&W_PDF.plt



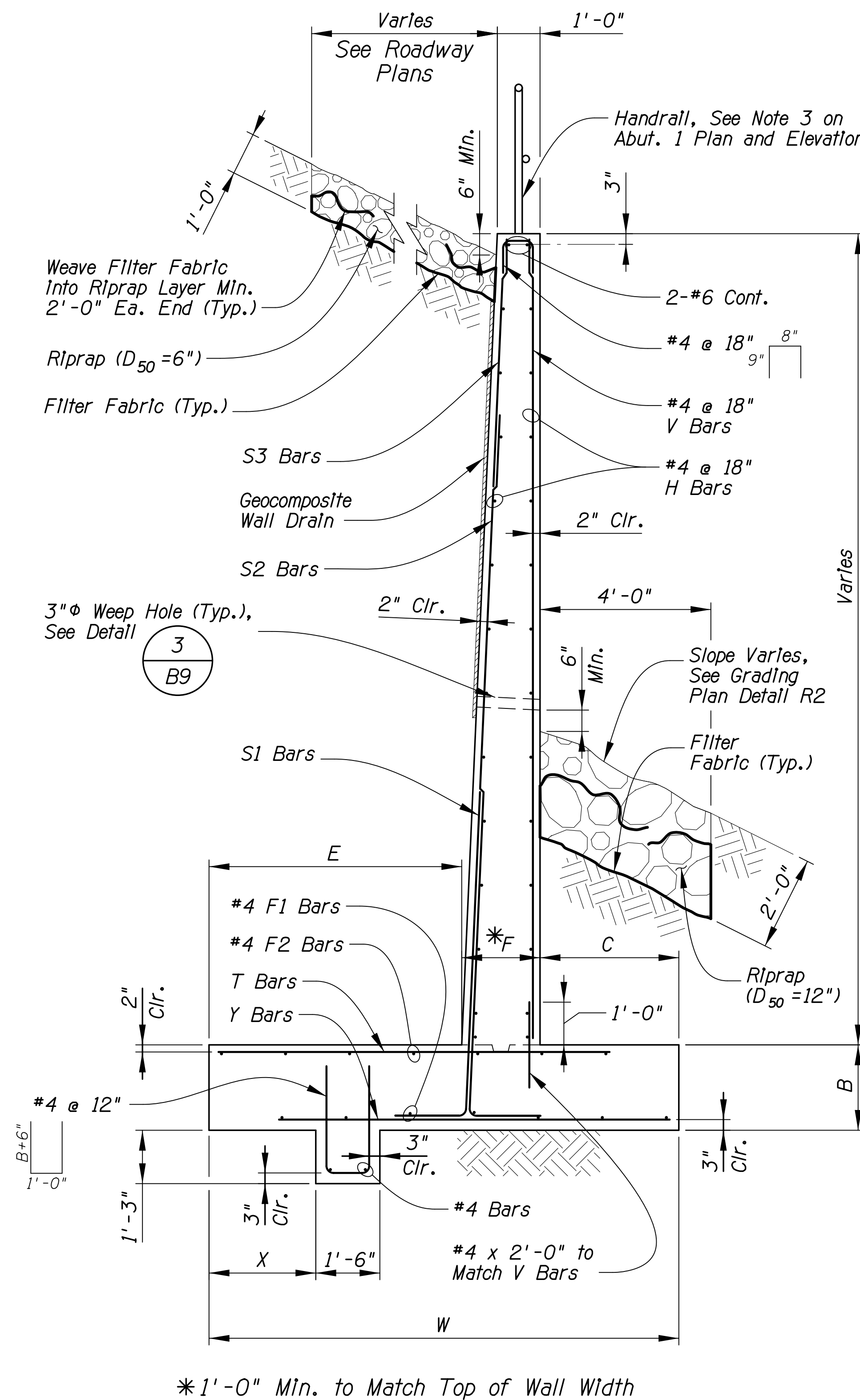
WINGWALL ELEVATION (ABUT. 1 WEST)

Scale: 3/16" = 1'-0"



WINGWALL ELEVATION (ABUT. 2 EAST)

Scale: 3/16" = 1'-0"



TYPICAL RETAINING WALL SECTION

Scale: 1/2" = 1'-0"

Notes:

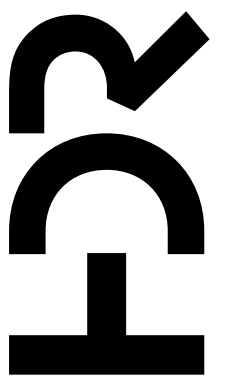
1. Conc. retaining walls, including construction joints and footing steps, to be constructed in accordance with ADOT SD 7.01 Case III - 2:1 (Max) Sloping Fill. Modify dimensions as shown in Section 3 on this sheet. Concrete shall be Class S, $f'c$ = 3000 psi @ 28 days.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540.01C					

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
04/2026	GWS	TRK	DL	TWB
04/2026				
04/2026				

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

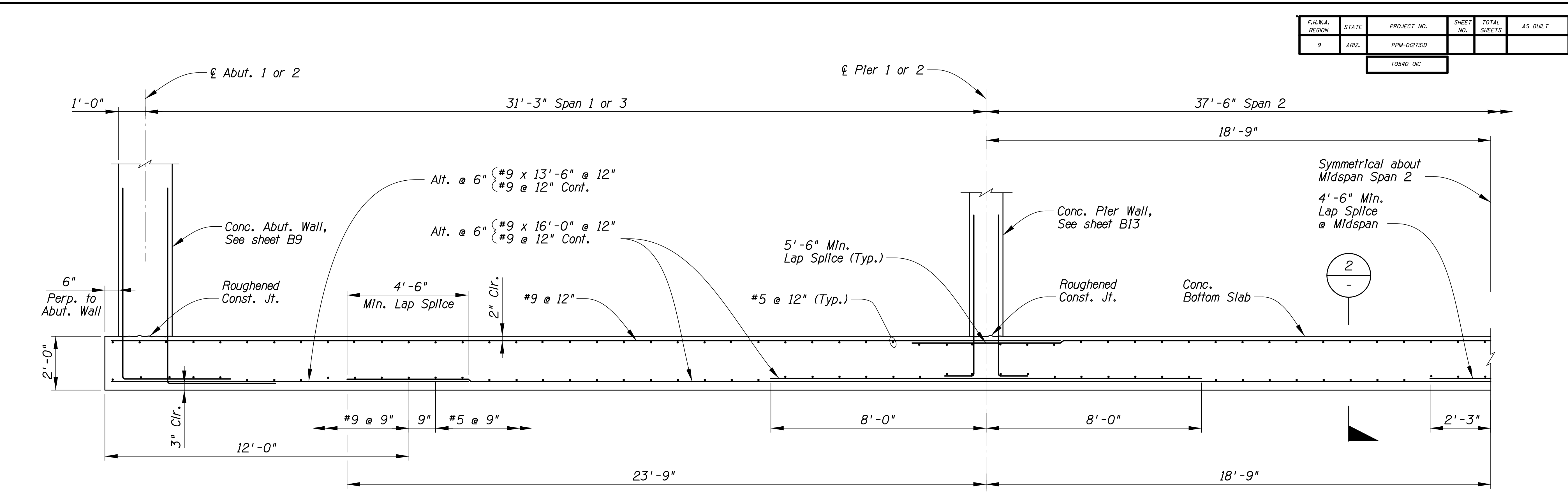
Pima County Department of Transportation



ABUTMENT & WINGWALL DETAILS 3

Scales	Horiz.	Ver.	Sheet	B11 of B19	Page	36 of 80

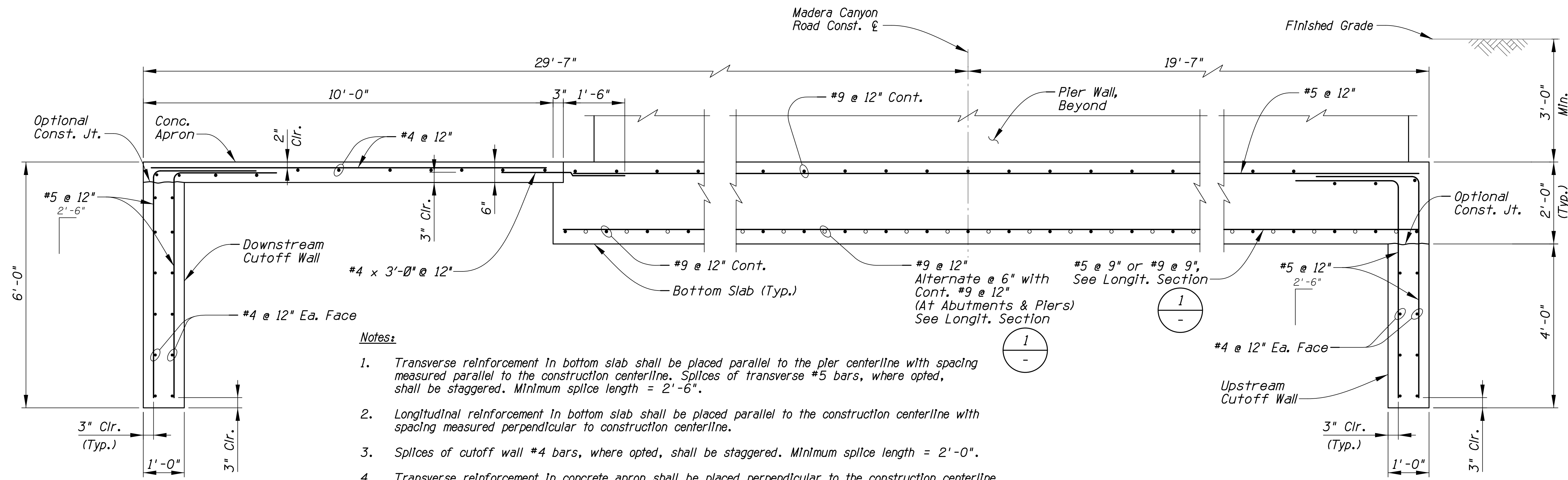
Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOT000R.TBL
PlotDriver: 10416569_V8FULL-B&W-PDF.plt



BOTTOM SLAB LONGITUDINAL SECTION

Scale: 1/2" = 1'-0"

1



Notes:

- Transverse reinforcement in bottom slab shall be placed parallel to the pier centerline with spacing measured parallel to the construction centerline. Splices of transverse #5 bars, where opted, shall be staggered. Minimum splice length = 2'-6".
- Longitudinal reinforcement in bottom slab shall be placed parallel to the construction centerline with spacing measured perpendicular to construction centerline.
- Splices of cutoff wall #4 bars, where opted, shall be staggered. Minimum splice length = 2'-0".
- Transverse reinforcement in concrete apron shall be placed perpendicular to the construction centerline.

BOTTOM SLAB SECTION

(Looking Ahead Station)

Scale: 1/2" = 1'-0"

2



BOTTOM SLAB DETAILS

Scales

Horiz.

Vert.

Sheet B12 of B19

Page 37 of 80

Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

FOR

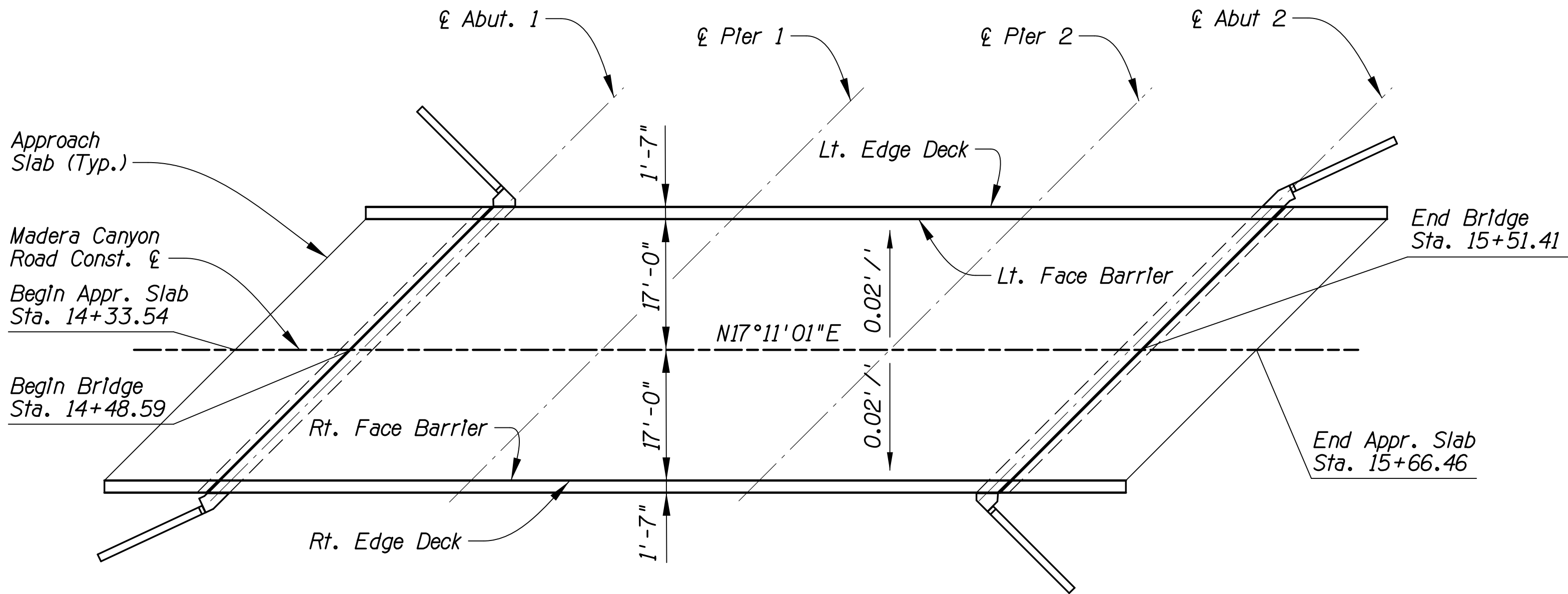


Kathryn Skinner, P.E., Director

Date	Drawn	Checked	Proj. Engr.
04/2026	TRK	DL	TWB

No.	Revision	Description	Engineer	Date

Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOT000R.TBL
Plotdriver: 10416569-V8FULL-8&W-PDF.plt



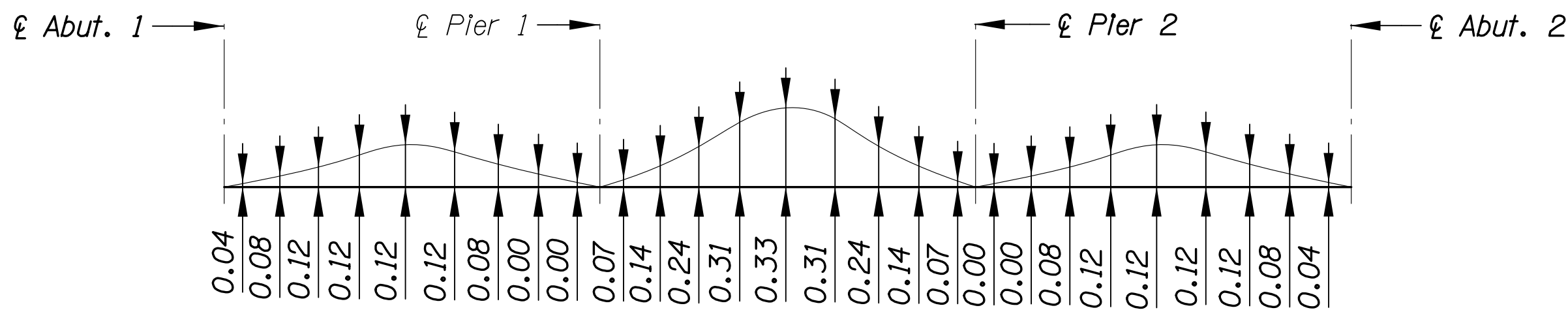
Notes:
Foundation and apron not shown.

DECK SCREED ELEVATION PLAN
No Scale

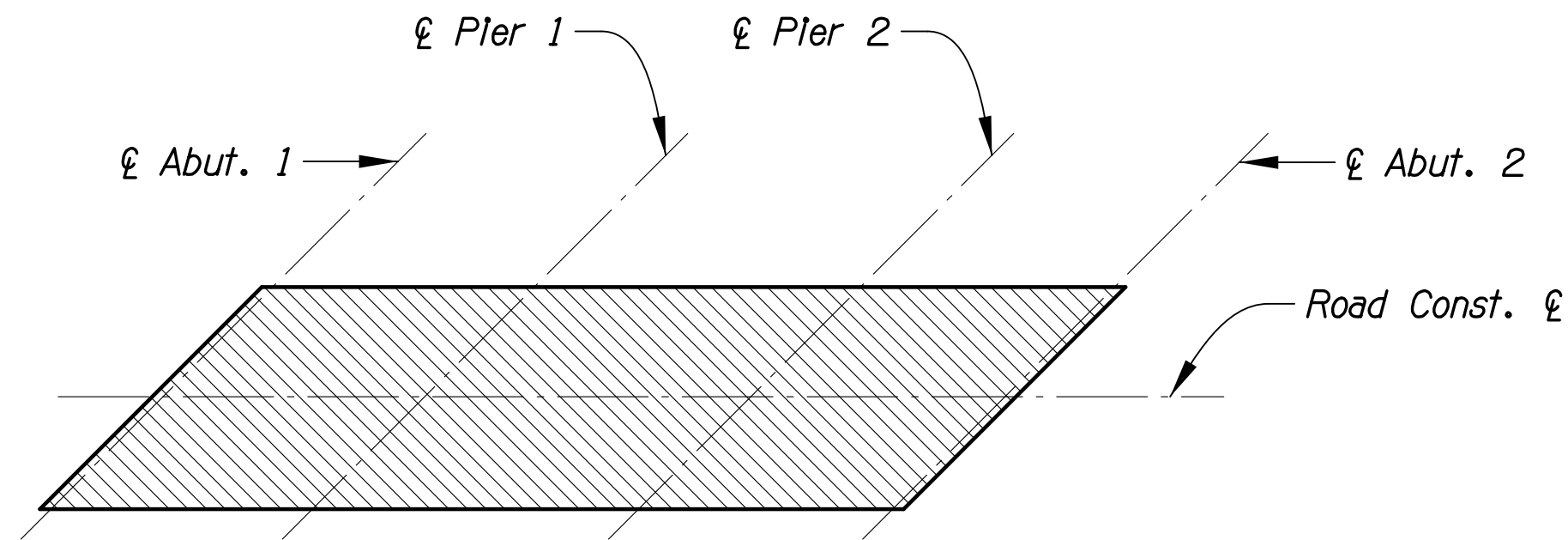
BRIDGE SCREED ELEVATIONS

Location	℄ Abut. 1	0.1 pt.	0.2 pt.	0.3 pt.	0.4 pt.	0.5 pt.	0.6 pt.	0.7 pt.	0.8 pt.	0.9 pt.	℄ Pier 1	0.1 pt.	0.2 pt.	0.3 pt.	0.4 pt.	0.5 pt.	0.6 pt.	0.7 pt.	0.8 pt.	0.9 pt.	℄ Pier 2
Lt. Edge Deck	3684.17	3684.00	3683.85	3683.68	3683.52	3683.35	3683.19	3683.02	3682.85	3682.68	3682.52	3682.33	3682.13	3681.94	3681.76	3681.56	3681.36	3681.15	3680.94	3680.75	3680.54
Lt. Face Barrier	3684.28	3684.12	3683.96	3683.80	3683.63	3683.47	3683.30	3683.14	3682.96	3682.80	3682.63	3682.45	3682.25	3682.06	3681.87	3681.67	3681.48	3681.27	3681.06	3680.86	3680.65
Const. ℄	3685.52	3685.36	3685.20	3685.04	3684.87	3684.71	3684.54	3684.38	3684.20	3684.04	3683.87	3683.68	3683.48	3683.30	3683.11	3682.91	3682.71	3682.50	3682.30	3682.10	3681.89
Rt. Face Barrier	3686.08	3685.91	3685.76	3685.59	3685.43	3685.26	3685.10	3684.93	3684.76	3684.59	3684.43	3684.24	3684.04	3683.85	3683.67	3683.47	3683.27	3683.06	3682.85	3682.66	3682.45
Rt. Edge Deck	3686.13	3685.97	3685.81	3685.65	3685.48	3685.32	3685.15	3684.99	3684.81	3684.65	3684.48	3684.29	3684.09	3683.91	3683.72	3683.52	3683.32	3683.11	3682.91	3682.71	3682.50

	℄ Pier 2	0.1 pt.	0.2 pt.	0.3 pt.	0.4 pt.	0.5 pt.	0.6 pt.	0.7 pt.	0.8 pt.	0.9 pt.	℄ Abut. 2
Lt. Edge Deck	3680.54	3680.37	3680.21	3680.05	3679.89	3679.72	3679.56	3679.39	3679.23	3679.05	3678.89
Lt. Face Barrier	3680.65	3680.49	3680.32	3680.17	3680.00	3679.84	3679.67	3679.51	3679.34	3679.17	3679.00
Const. ℄	3681.89	3681.73	3681.56	3681.41	3681.24	3681.08	3680.91	3680.75	3680.58	3680.41	3680.24
Rt. Face Barrier	3682.45	3682.28	3682.12	3681.96	3681.80	3681.63	3681.47	3681.30	3681.14	3680.96	3680.80
Rt. Edge Deck	3682.50	3682.34	3682.17	3682.02	3681.85	3681.69	3681.52	3681.36	3681.19	3681.02	3680.85



DEAD LOAD CAMBER DIAGRAM (IN)
No Scale



DECK POUR DIAGRAM
No Scale

POUR NOTES:

- Transverse and longitudinal construction joints are not allowed in the bridge deck. The entire deck shall be placed at one time.
- Alternative pouring sequences will require a no cost supplemental agreement detailing joint locations and conditions and shall be subject to approval of the Engineer.
- Contractor shall submit complete falsework drawings and structural calculations for review and approval by the Engineer prior to construction. See Standard Specifications.

APPROACH SLAB FINISH GRADE ELEVATIONS

Location	ABUTMENT 1		ABUTMENT 2	
	Begin	End	Begin	End
Lt. Edge	3685.04	3684.24	3678.81	3678.02
Const. ℄	3686.39	3685.60	3680.17	3679.37
Rt. Edge	3687.00	3686.20	3680.78	3679.98

SCREED ELEVATION NOTES:

- Bridge screed elevations are taken along lines parallel to Abutment and Pier &.
- The Screed Elevation includes an allowance for deflection due to the dead load of the concrete deck slab and shall be used in setting screeds. (DO NOT USE FINISHED GRADE ELEVATIONS FOR SETTING SCREEDS)
- Forms for new construction shall be cambered for dead load deflections, vertical profile, form deflections and falsework settlement. The dead load camber diagram is for dead load only and does not include 25 psf for future wearing surface.
- Screed elevations may have to be adjusted to accommodate as-built conditions. Adjustments to the screed elevations will require approval of the Engineer.

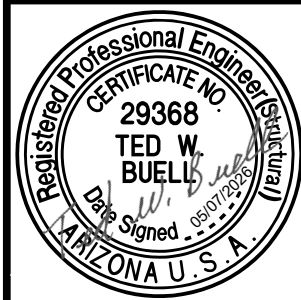


CAMBER & SCREED ELEVATIONS

Kathryn Skinner, P.E., Director

Date	04/2026
Designed	GWS
Drawn	TRK
Checked	DL
Proj. Engr.	TWB

No.	Revision	Description	Engineer	Date



FOR

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project ID: 10416569
Client Number: 4108
Pentable: COTPMAL-PL010ORDR.TBL
Plotdriver: 10416569_V8FULL_E&W_PDF.plt

Terracon
355 S. Euclid Ave, Ste. 107
Tucson, AZ

General Notes

Sampling	Water Level	Field Tests
 Auger Cuttings  Rock Core  Ring Sampler  Standard Penetration Test Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	 Water Initially Encountered  Water Level After a Specified Period of Time  Water Level After a Specified Period of Time  Cave In Encountered	N Standard Penetration Test Resistance (Blows/Ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms

Relative Density of Coarse-Grained Soils (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance			Consistency of Fine-Grained Soils (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance			Bedrock			
Relative Density	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)	Consistency	Unconfined Compressive Strength Qu (psf)	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)	Ring Sampler (Blows/Ft.)	Standard Penetration or N-Value (Blows/Ft.)	Consistency
Very Loose	0 - 3	0 - 5	Very Soft	less than 500	0 - 1	< 3	< 30	< 20	Weathered
Loose	4 - 9	6 - 14	Soft	500 to 1,000	2 - 4	3 - 6	30 - 43	20 - 29	Firm
Medium Dense	10 - 29	15 - 44	Medium Stiff	1,000 to 2,000	4 - 8	7 - 12	44 - 73	30 - 49	Medium Hard
Dense	30 - 50	45 - 75	Stiff	2,000 to 4,000	8 - 15	13 - 23	74 - 118	50 - 79	Hard
Very Dense	> 50	> 75	Very Stiff	4,000 to 8,000	15 - 30	24 - 45	> 118	>79	Very Hard
			Hard	> 8,000	> 30	> 45			

Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

Facilities | Environmental | Geotechnical | Materials

Geotechnical Data Report

Madera Canyon Road, Florida Canyon Wash and Medium Wash Bridges | Pima County, Arizona
November 18, 2025 | Terracon Project No. 63245064

Unified Soil Classification System

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests ^A				Soil Classification	
				Group Symbol	Group Name ^B
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	Gravels: More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels: Less than 5% fines ^C	Cu≥4 and 1≤Cc≤3 ^E	GW	Well-graded gravel ^F
			Cu<4 and/or [Cc<1 or Cc>3.0] ^E	GP	Poorly graded gravel ^F
		Gravels with Fines: More than 12% fines ^C	Fines classify as ML or MH	GM	Silty gravel ^{F, G, H}
	Sands: 50% or more of coarse fraction passes No. 4 sieve		Fines classify as CL or CH	GC	Clayey gravel ^{F, G, H}
		Clean Sands: Less than 5% fines ^D	Cu≥6 and 1≤Cc≤3 ^E	SW	Well-graded sand ^I
			Cu<6 and/or [Cc<1 or Cc>3.0] ^E	SP	Poorly graded sand ^I
Fine-Grained Soils: 50% or more passes the No. 200 sieve	Silts and Clays: Liquid limit less than 50	Sands with Fines: More than 12% fines ^D	Fines classify as ML or MH	SM	Silty sand ^{G, H, I}
			Fines classify as CL or CH	SC	Clayey sand ^{G, H, I}
		Inorganic:	PI > 7 and plots above “A” line ^J	CL	Lean clay ^{K, L, M}
	Silts and Clays: Liquid limit 50 or more		PI < 4 or plots below “A” line ^J	ML	Silt ^{K, L, M}
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OL	Organic clay ^{K, L, M, N} Organic silt ^{K, L, M, O}
		Inorganic:	PI plots on or above “A” line	CH	Fat clay ^{K, L, M}
Highly organic soils:	Primarily organic matter, dark in color, and organic odor	PI plots below “A” line	MH	Elastic silt ^{K, L, M}	
		$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OH	Organic clay ^{K, L, M, P} Organic silt ^{K, L, M, Q}	
			PT	Peat	

^A Based on the material passing the 3-inch (75-mm) sieve.

^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^C Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

^D Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

^E $Cu = D_{60}/D_{10}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$

^F If soil contains ≥ 15% sand, add "with sand" to group name.

^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^H If fines are organic, add "with organic fines" to group name.

^I If soil contains ≥ 15% gravel, add "with gravel" to group name.

^J If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

^K If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

^L If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

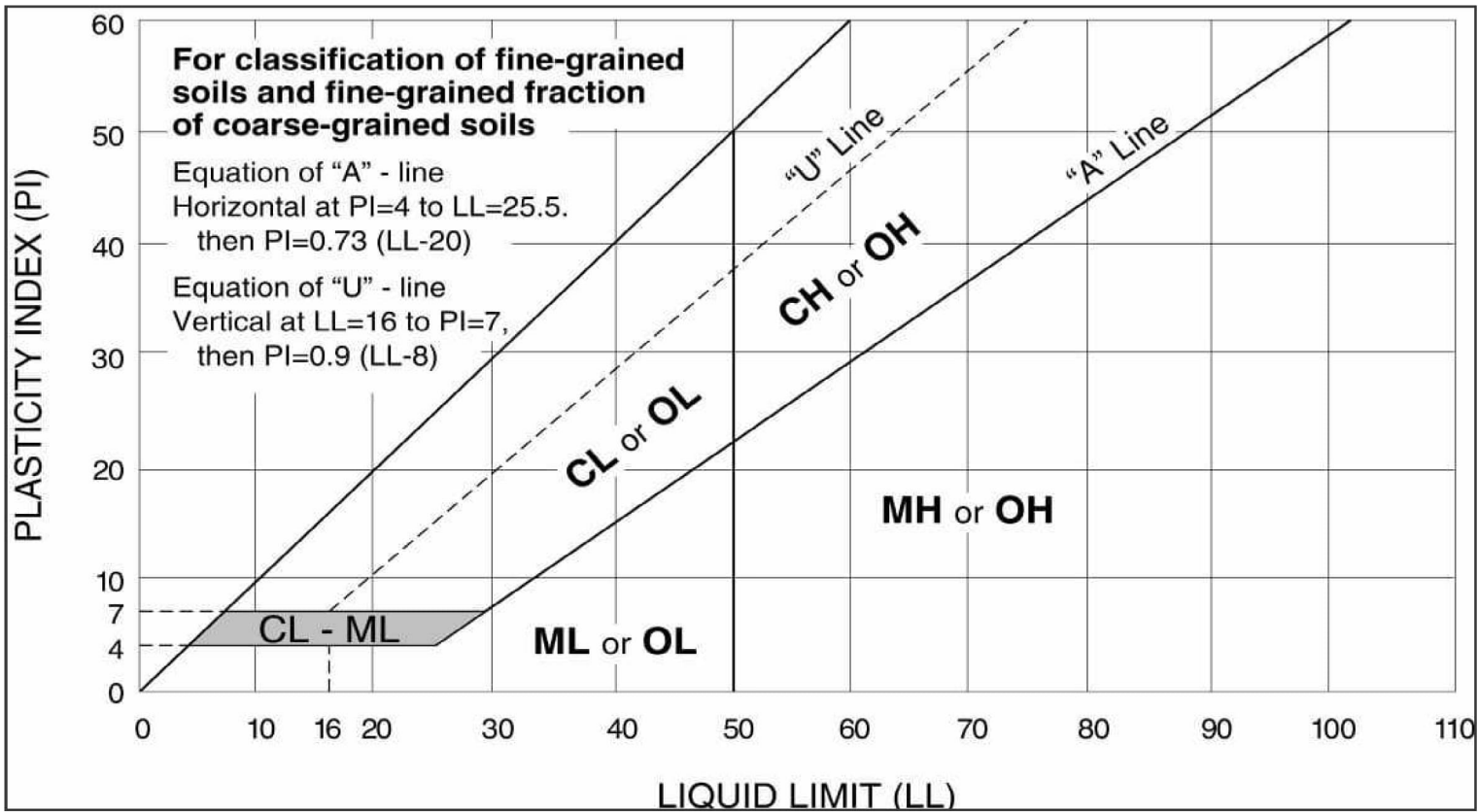
^M If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

^N PI ≥ 4 and plots on or above "A" line.

^O PI < 4 or plots below "A" line.

^P PI plots on or above "A" line.

^Q PI plots below "A" line.



Facilities | Environmental | Geotechnical | Materials



FOUNDATION DATA (SHEET 2 OF 4)

Scales	Horiz.	Sheet B17 of B19	Page 42 of 80
	Vert.		

Kathryn Skinner, P.E., Director

Date	GWS	Drawn	Checked	Proj. Engr.
04/2026	TRK	DL	04/2026	04/2026

No.	Revision	Description	Engineer	Date



FOR

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOTORDR.TBL
Plotdriver: 10416569_V8FULL_E&W_PDF.plt

Madera Canyon Bridge Project
Madera Canyon Road | Pima County, Arizona
Terracon Project No. 63245064

Terracon
355 S Euclid Ave, Ste 107
Tucson, AZ

Boring Log No. FB1

Graphic Log	Location: See Exploration Plan Latitude: 31.78198° Longitude: -110.88691°	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Fines
								LL-PL-PI	
	Depth (Ft.) Approximate Elevation: 3673 (Ft.)								
	CLAYEY SAND WITH GRAVEL (SC) , fine to coarse grained, subangular to angular, medium plasticity, brown, very dense							28-17-11	22.9
								29-18-11	30.4
	4.0 3669				9-23-28 N=51	5.2			
	SILTY CLAYEY SAND (SC-SM) , fine to medium grained, angular, low plasticity, brown, very dense lens of well graded gravel with sand	5			50/6"				3.6
								26-21-5	36.9
	8.5 3664.5				11-50/4"				
	CLAYEY SAND (SC) , fine to medium grained, low plasticity, brown, very dense	10			50/5"			24-16-8	36.3
					7-20-50/1"				
	15.0 3658				50/1"			26-23-3	22.4
	SILTY SAND (SM) , fine to medium grained, low plasticity, brown, very dense				50/5"				
	medium dense, lens of poorly graded sand with gravel	20			14-23			22-19-3	32.3
	23.0 3650								
	CLAYEY SAND (SC) , fine to medium grained, low plasticity, brown, very dense								
	very dense	25			50/5"	3.7			
	trace cobbles, gray								
		30			12-50/1"	4.3			
See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevation Reference: Elevations provided by HDR Engineering, Inc.			Water Level Observations Groundwater not encountered		Drill Rig Terra Sonic		Hammer Type Automatic		
					Driller GSI		Logged by B. Thomas		
Notes			Advancement Method 4 Inch Casing		Boring Started 09-11-2025		Boring Completed 09-11-2025		
			Abandonment Method Boring backfilled with auger cuttings upon completion.						

Facilities | Environmental | Geotechnical | Materials

Madera Canyon Bridge Project
Madera Canyon Road | Pima County, Arizona
Terracon Project No. 63245064

Terracon
355 S Euclid Ave, Ste 107
Tucson, AZ

Boring Log No. FB1

Graphic Log	Location: See Exploration Plan Latitude: 31.78198° Longitude: -110.88691°	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Fines
								LL-PL-PI	
	Depth (Ft.) Approximate Elevation: 3673 (Ft.)								
	CLAYEY SAND (SC) , fine to medium grained, low plasticity, brown, very dense (continued)								
	tan to brown	35			50/5"				
	gray to brown	40			50/0"				
		45			13-24-50/4"	8.5			
		50			25-22-50/2"				
		55			16-14-17 N=31	8.4			
	60.5 very dense, lens of silty sand	60			50/5"				
	Boring Terminated at 60.5 Feet								
See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevation Reference: Elevations provided by HDR Engineering, Inc.			Water Level Observations Groundwater not encountered		Drill Rig Terra Sonic		Hammer Type Automatic		
					Driller GSI		Logged by B. Thomas		
Notes			Advancement Method 4 Inch Casing		Boring Started 09-11-2025		Boring Completed 09-11-2025		
			Abandonment Method Boring backfilled with auger cuttings upon completion.						

Facilities | Environmental | Geotechnical | Materials



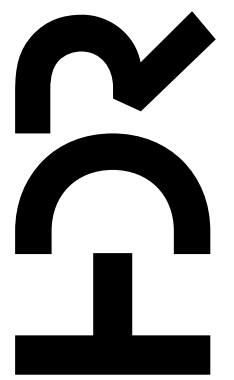
FOUNDATION DATA (SHEET 3 OF 4)

Scales Horiz. Sheet B18 of B19 Page 43 of 80
Vert.

Kathryn Skinner, P.E., Director

Date	GWS	TRK	DL	TWB
04/2026				
04/2026				
04/2026				
04/2026				

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Bridge Project
Madera Canyon Road | Pima County, Arizona
Terracon Project No. 63245064

Terracon
355 S Euclid Ave, Ste 107
Tucson, AZ

Boring Log No. FB2

Graphic Log	Location: See Exploration Plan Latitude: 31.78211° Longitude: -110.88686°	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Fines
								LL-PL-PI	
	Depth (Ft.) Approximate Elevation: 3666 (Ft.)	2.0						27-19-8	26.4
	CLAYEY SAND WITH GRAVEL (SC) , trace gravel, fine grained, angular, low plasticity, brown lens of lean clay with sand								
	SILTY SAND (SM) , fine to coarse grained, angular, nonplastic, dark brown, dense	5			17-50/3"			NP	27.7
	light brown, lens of clayey sand								
		9.0			9-21-26 N=47	3.8			
	SILTY CLAYEY SAND WITH GRAVEL (SC-SM) , fine to medium grained, angular, low plasticity, light brown to brown, very dense	10			18-50/3"				
	dense	15			50/3"			23-17-6	31.6
	very dense	17.0			14-50/1"				
	SILTY CLAYEY SAND (SC-SM) , fine to medium grained, low plasticity, light brown, very dense	20			25-50/2"	5.1			
		25			50/0"			26-20-6	30.1
		29.0			50/3"				
	SILTY CLAYEY SAND WITH GRAVEL (SC-SM) , fine to medium grained, angular, low plasticity, light brown, very dense	30			17-50/1"	6.1			
								25-18-7	23.1

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations provided by HDR Engineering, Inc.

Notes

Water Level Observations
Groundwater not encountered

Drill Rig
Terra Sonic

Hammer Type
Automatic

Driller
GSI

Logged by
B. Thomas

Boring Started
09-10-2025

Boring Completed
09-11-2025

Advancement Method
4 Inch Casing

Abandonment Method
Boring backfilled with auger cuttings upon completion.

Facilities | Environmental | Geotechnical | Materials

Madera Canyon Bridge Project
Madera Canyon Road | Pima County, Arizona
Terracon Project No. 63245064

Terracon
355 S Euclid Ave, Ste 107
Tucson, AZ

Boring Log No. FB2

Graphic Log	Location: See Exploration Plan Latitude: 31.78211° Longitude: -110.88686°	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits	Percent Fines
								LL-PL-PI	
	Depth (Ft.) Approximate Elevation: 3666 (Ft.)	34.0							
	CLAYEY SAND (SC) , fine to coarse grained, low plasticity, light brown to brown, very dense								
		35			50/0"				
		40			50/3"				
		45			25-50/6"				
	dense	50			15-21-21 N=42	8.4			
	medium dense	55			9-14-13 N=27	10.1			
	SILTY SAND (SM) , trace clay, fine to coarse grained, nonplastic, tan, very dense	58.0							
		60.5			50/2"				
	Boring Terminated at 60.5 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations provided by HDR Engineering, Inc.

Notes

Water Level Observations
Groundwater not encountered

Drill Rig
Terra Sonic

Hammer Type
Automatic

Driller
GSI

Logged by
B. Thomas

Boring Started
09-10-2025

Boring Completed
09-11-2025

Advancement Method
4 Inch Casing

Abandonment Method
Boring backfilled with auger cuttings upon completion.

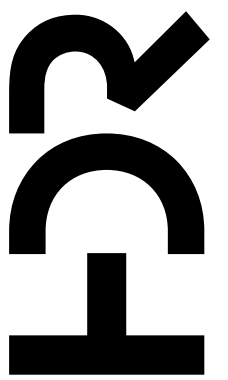
Facilities | Environmental | Geotechnical | Materials

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540_OIC					

Kathryn Skinner, P.E., Director

Date	GWS	TRK	DL	TWB
04/2026				
04/2026				
04/2026				

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

FOUNDATION DATA (SHEET 4 OF 4)

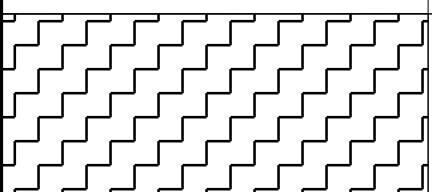
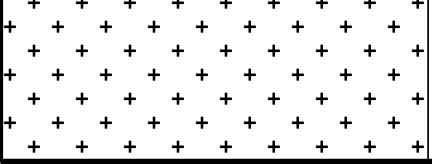
Scales	Horiz.	Sheet B19 of B19	Page 44 of 80
	Vert.		



Project ID: 10416569
Client Number: 4108
Pentable: COTPMALPLOTORDR.TBL
Plotdriver: 10416569_V8FULL_E8W_PDF.plt

Project: 24041PJ
Client: MCDERMOTT
Pentabid2_FULL.tbl
Plot: 1/14/24-pd1.plt c:fg

EROSION AND POLLUTION CONTROL BMP
SUMMARY OF QUANTITIES

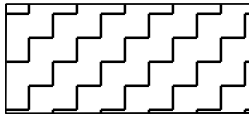
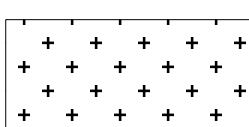
SYMBOL	BMP	UNIT	QTY.	REFERENCE	BID ITEM NO.	NOTES
	9" Dia. Sediment Wattle	L.F.	14,983	Detail ES1	8100001	
	20" Dia. Sediment Wattle	L.F.	624	Detail ES1	8100001	
	20" Dia. Sediment Log in Ditch/Channel	L.F.	80	Detail ES2	8100001	
Not Shown On Plans	Stabilized Construction Entrance/Exit Gravel Pad	S.Y.	170	Detail ES4	8100001	One Stabilized Construction Pad requires 170 S.Y. of Gradation C Rock Mulch. Not shown on plans.
	Seeding (Class II) Desert Scrub (Low Growing)	AC	4.2	N/A	8050004	Staging area to receive Seed Mix after construction is complete.
	Seeding (Class II) Xeroriparian	AC	.90	N/A	8050004	Staging area to receive Seed Mix after construction is complete.

GENERAL NOTES:

- Areas outside of the Project Disturbance Limits or Right of Way shall remain undisturbed. Should additional area require disturbance, the Engineer, Owner and appropriate parties must be notified.
- No existing storm drain inlets or drywells existing within 1/4 mile of the project limits.
- All disturbed soils shall be stabilized. Apply seed mix and/or granite mulch to disturbed soils, including all Temporary Construction Easements and Staging Area.
- Seeding limits shown on plans are estimated on anticipated limits of soil disturbance. Seeding shall be field adjusted to match limits of soil disturbance. Seeding limits shall extend to existing Right of Way unless otherwise shown on Project Plans.
- No erosion control measures shall be installed inside the preservation fencing areas for existing preserve in place plant material.
- Refer to Drainage Plans and Details for permanent erosion control structures.
- All Erosion Control Measures shall be installed within 14 days of establishing rough grade. Disturbed areas where construction is delayed for more than 14 days require Temporary Erosion Control Measures.
- Contractor shall determine final location of Stabilized Construction Entrance/Exit Gravel Pad according to site conditions and/or construction sequencing, with approval from the Engineer. All Ingress/egress and laydown yards shall be approved by the Engineer.
- Sweeping and/or vacuuming may be required as a secondary measure if trackout is visible.
- Containment Areas shall be identified on Contractor's Stormwater Pollution Prevention Plan.
- Spill response equipment shall be accessible in case of a spill, and located within/near the Containment Area.
- Quantities shown in Summary of Quantities are for Contractor convenience. Contractor to verify all quantities.
- All work and materials relating to the BMPs detailed within these Plans (including all materials used for BMPs, all ground preparation, furnishing, installing, maintenance, final removal, and disposal of temporary BMPs, as well as returning the area to an acceptable condition as approved by the Engineer) shall be paid for under Bid Item Number 8100001.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540_OIC					
Contact Arizona 811 at least two full working days before you begin excavation  Call 811 or click Arizona811.com					

SEED MIX SCHEDULE

SYM./KEY	BOTANICAL NAME	COMMON NAME	PLS RATE	QTY
SEED MIX (CLASS II)				
	Ambrosia deltoidea	Triangle Leaf Bursage	3.0 lbs./ac.	4.2 AC
	Aristida purpurea	Purple Threeawn	1.5 lbs./ac.	
	Bailey multiradiata	Desert Marigold	2.0 lbs./ac.	
	Bouteloua aristidolodes	Needle Grama	1.0 lbs./ac.	
	Bouteloua curtipendula	Sideoats Grama	1.0 lbs./ac.	
	Bouteloua rothrockii	Rothrock Grama	2.0 lbs./ac.	
	Dyssodia pentachaeta	Golden Dyssodia	1.0 lbs./ac.	
	Encelia farinosa	Brittlebush	2.0 lbs./ac.	
	Escholtzia mexicana	Desert Poppy	2.0 lbs./ac.	
	Isocoma tenuisecta	Burrowweed	1.0 lbs./ac.	
	Lesquerella gordonii	Bladderpod	1.0 lbs./ac.	
	Lupinus sparsiflorus	Lupine	1.0 lbs./ac.	
	Plantago insularis	Desert Indian Wheat	3.0 lbs./ac.	
	Senna covesii	Desert Senna	2.0 lbs./ac.	
	Sphaeralcea ambigua	Desert Globemallow	1.0 lbs./ac.	
	Zinnia acerosa	Desert Zinnia	0.5 lbs./ac.	
	TOTAL PLS RATE:			
	Acacia constricta	Whitethorn Acacia	1.5 lbs./ac.	0.90 AC
	Acacia greggii	Catclaw Acacia	1.5 lbs./ac.	
	Aristida purpurea	Purple Threeawn	0.5 lbs./ac.	
	Atriplex polycarpa	Cattle Saltbush	0.5 lbs./ac.	
	Bailey multiradiata	Desert Marigold	1.0 lbs./ac.	
	Bouteloua aristidolodes	Needle Grama	1.0 lbs./ac.	
	Bouteloua curtipendula	Sideoats Grama	1.5 lbs./ac.	
	Bouteloua rothrockii	Rothrock Grama	1.0 lbs./ac.	
	Calliandra eriophylla	Fairy Duster	1.0 lbs./ac.	
	Digitaria californica	Arizona Cottontop	1.0 lbs./ac.	
	Escholtzia mexicana	Desert Poppy	1.0 lbs./ac.	
	Isocoma tenuisecta	Burrowweed	1.0 lbs./ac.	
	Larrea tridentata	Creosote	2.0 lbs./ac.	
	Lesquerella gordonii	Bladderpod	1.0 lbs./ac.	
	Lupinus sparsiflorus	Lupine	1.0 lbs./ac.	
	Celtis pallida	Desert Hackberry	2.0 lbs./ac.	
	Celtis reticulata	Netleaf Hackberry	1.5 lbs./ac.	
	Prosopis velutina	Velvet Mesquite	1.0 lbs./ac.	
	Psilostrophe cooperi	Paperflower	1.0 lbs./ac.	
	Senna covesii	Desert Senna	1.0 lbs./ac.	
	Sphaeralcea ambigua	Desert Globemallow	0.5 lbs./ac.	
	Sporobolus cryptandrus	Sand Dropseed	1.0 lbs./ac.	
	Zinnia acerosa	Desert Zinnia	0.5 lbs./ac.	
	TOTAL PLS RATE:			

Note: Seeding information for reference only. See Landscape Plans.

EROSION CONTROL NOTES

Scales		Sheet ECN1 of ECN1	Page 45 of 80
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Kathryn Skinner, P.E., Director

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

No.	Revision	Description	Engineer	Date

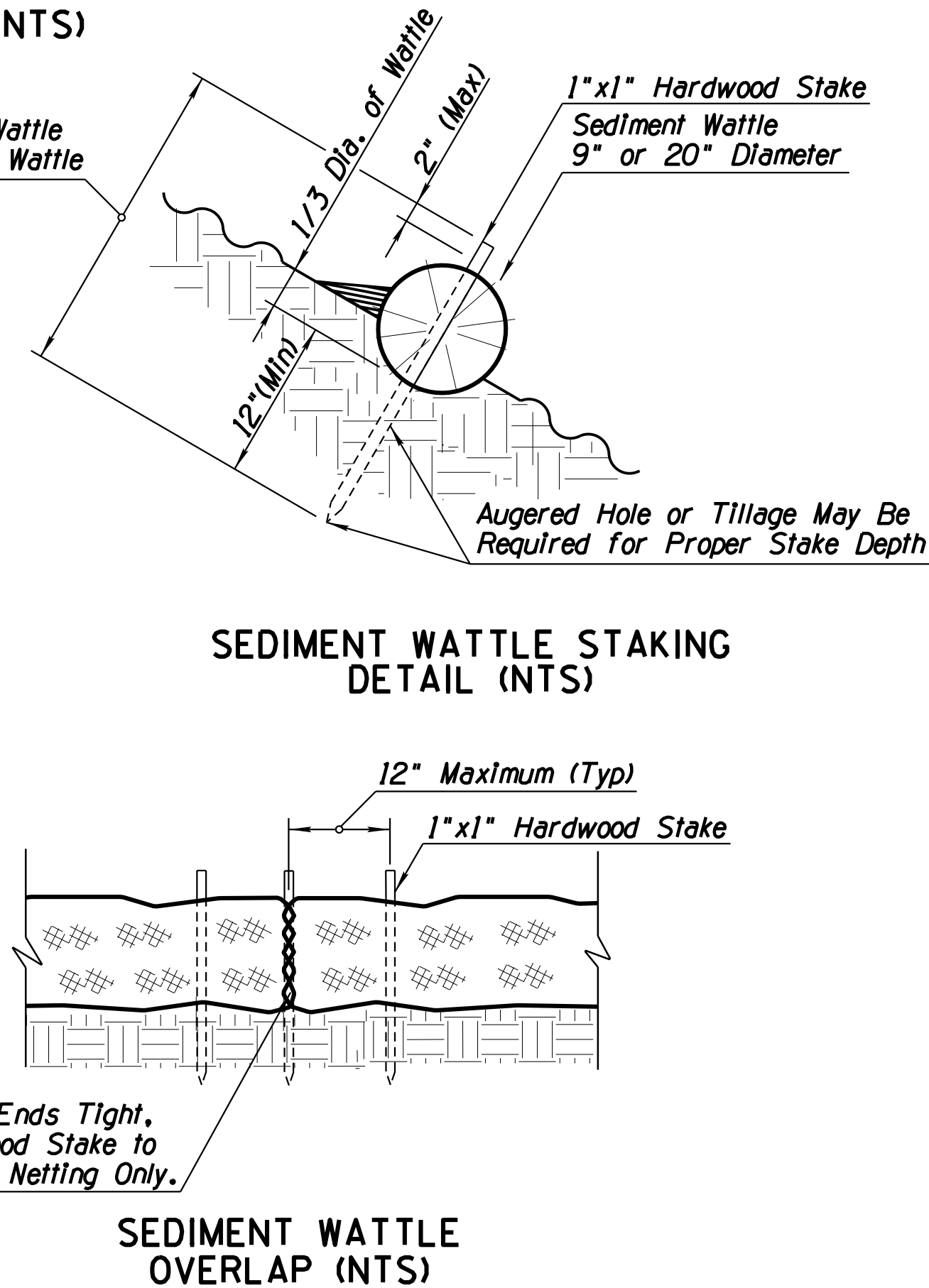
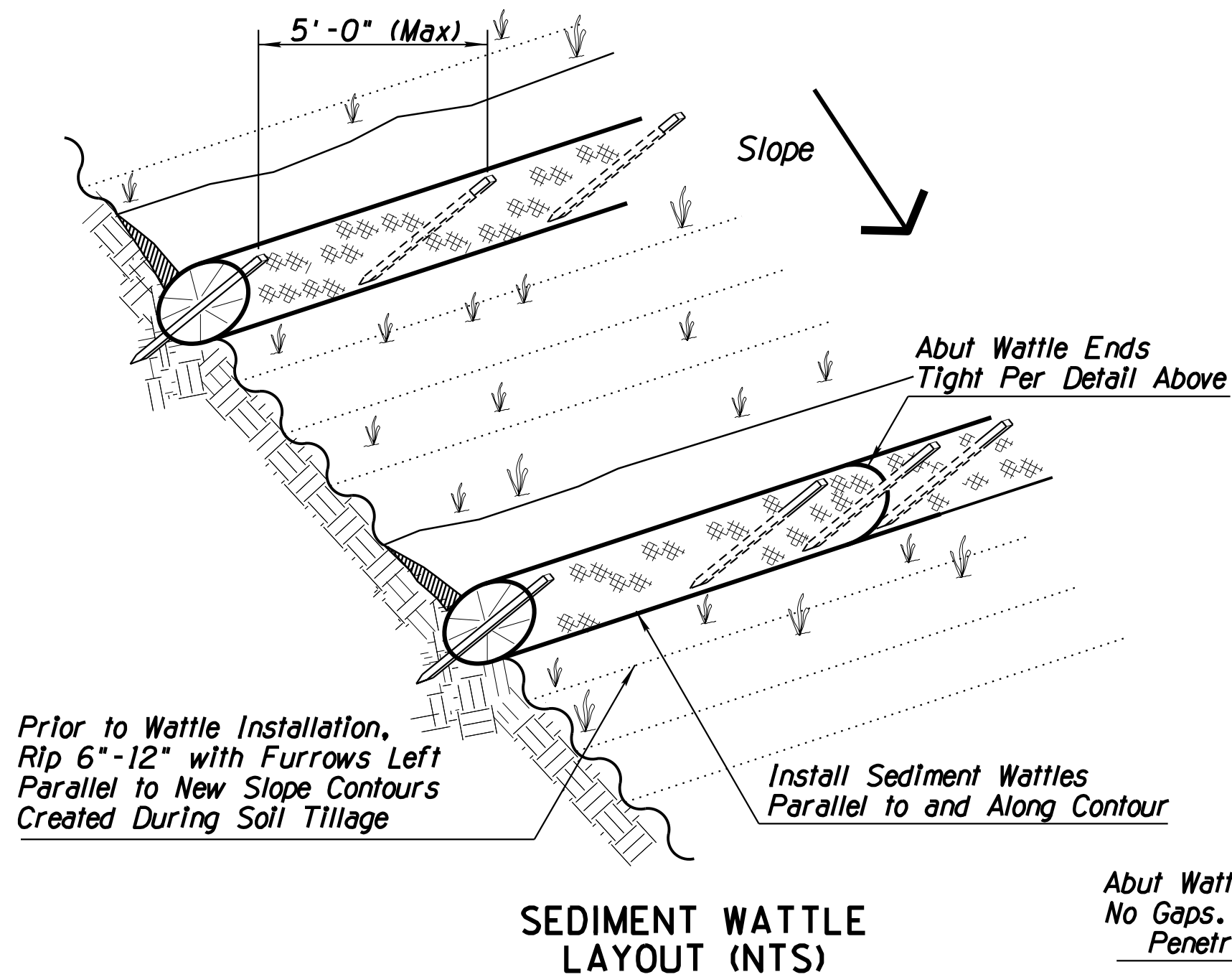
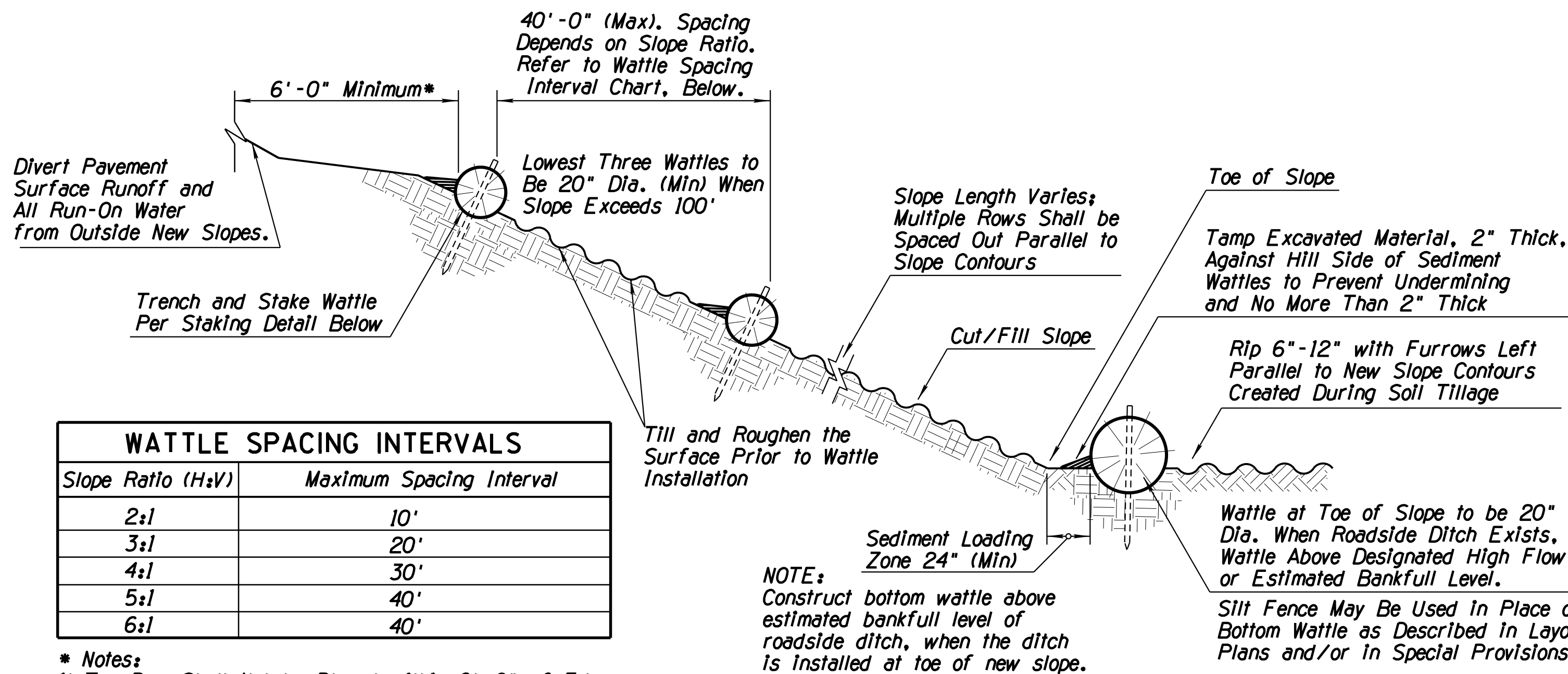


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
Pentable2_FULL.tbl
Plot: 24041PJ.dwg

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-012731D			
T0540 OIC					



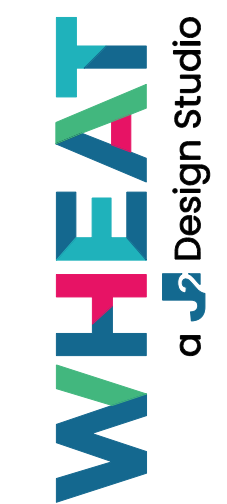
- NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)**
- NOTES:**
1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor where cable barrier systems are employed.
 2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.
 3. Butt adjoining wattles tightly against each other. Drive the first end stake of the second wattle at an angle toward the first wattle to help abut them tightly.
 4. Repair any rills or gullies promptly. Make field adjustments and corrections of Wattle BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
 5. Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching BMP Detail.
 6. Loosening surface soil is not required where Minibenching is used. For seeded areas, tillage shall be performed to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Specifications.
 7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to divert run-on water.
 8. Installation and maintenance of Sediment Wattle BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
 9. Install and maintain Sediment Wattle BMPs to carry the stormwater of at least 2-year, 24-hour events.
 10. Refer to Subsection 810-2.04(C) of the PAG Standard Specifications for Sediment Wattle material specifications.
 11. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES1
SEDIMENT WATTLE

Kathryn Skinner, P.E., Director

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	03/2026

No.	Revision	Description	Engineer	Date

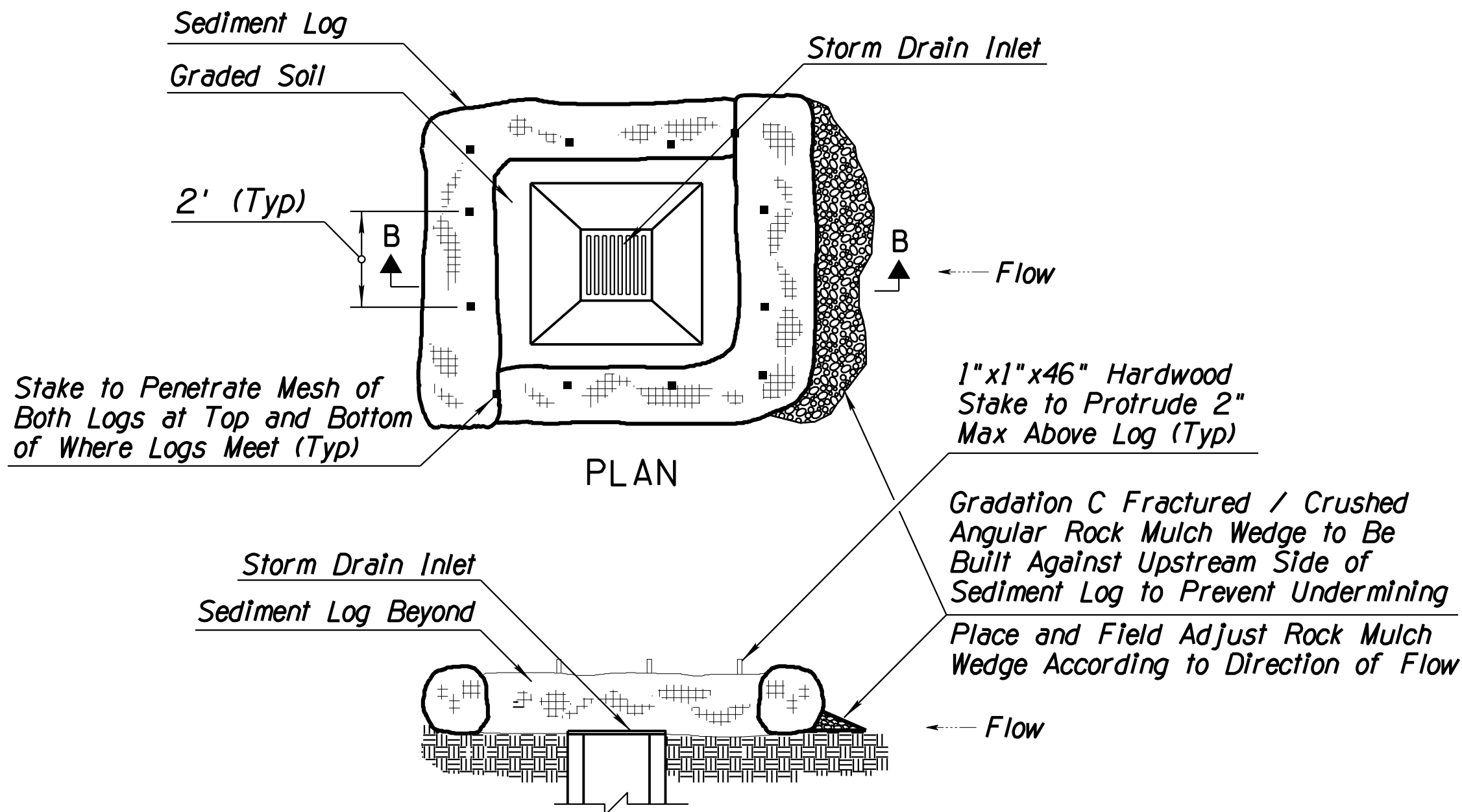


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

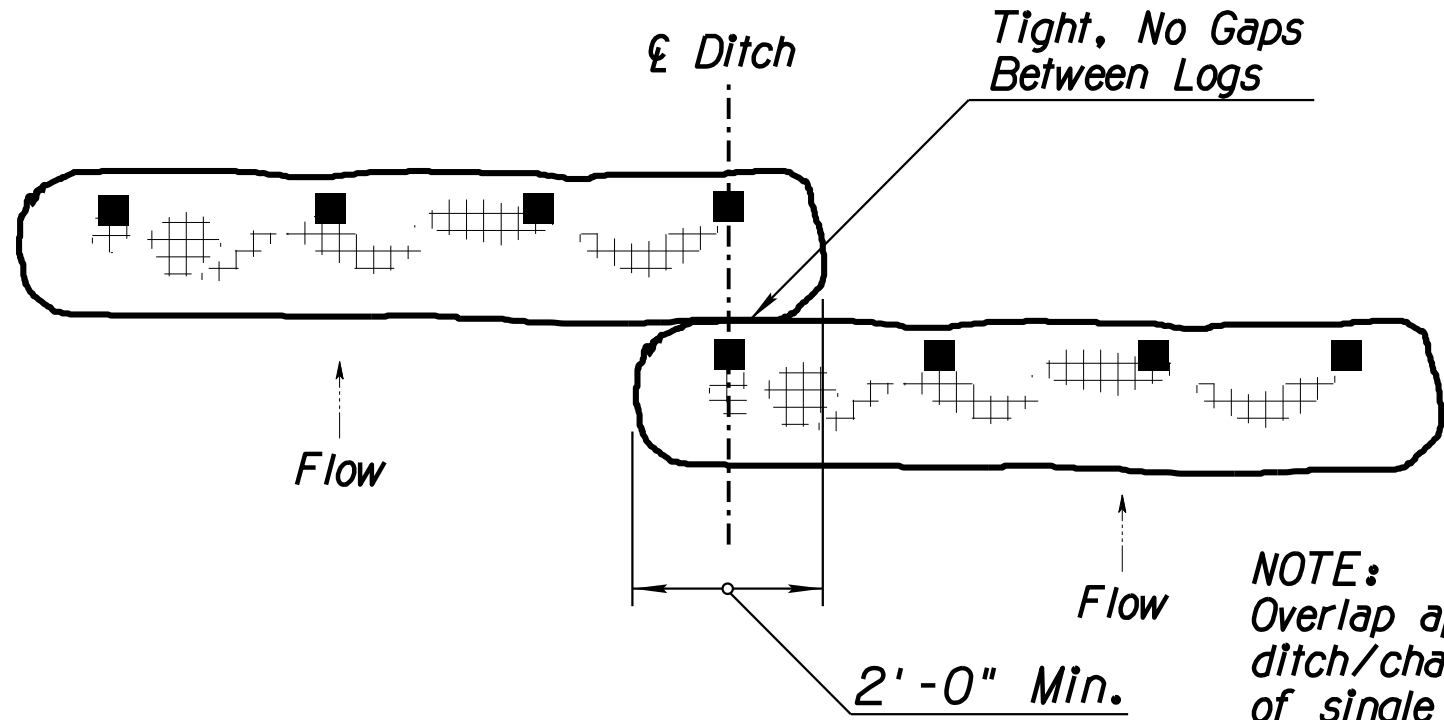
Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: MCDOT
Pentable: FULL.tbl
Plot: nvd2-pdf.plt

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

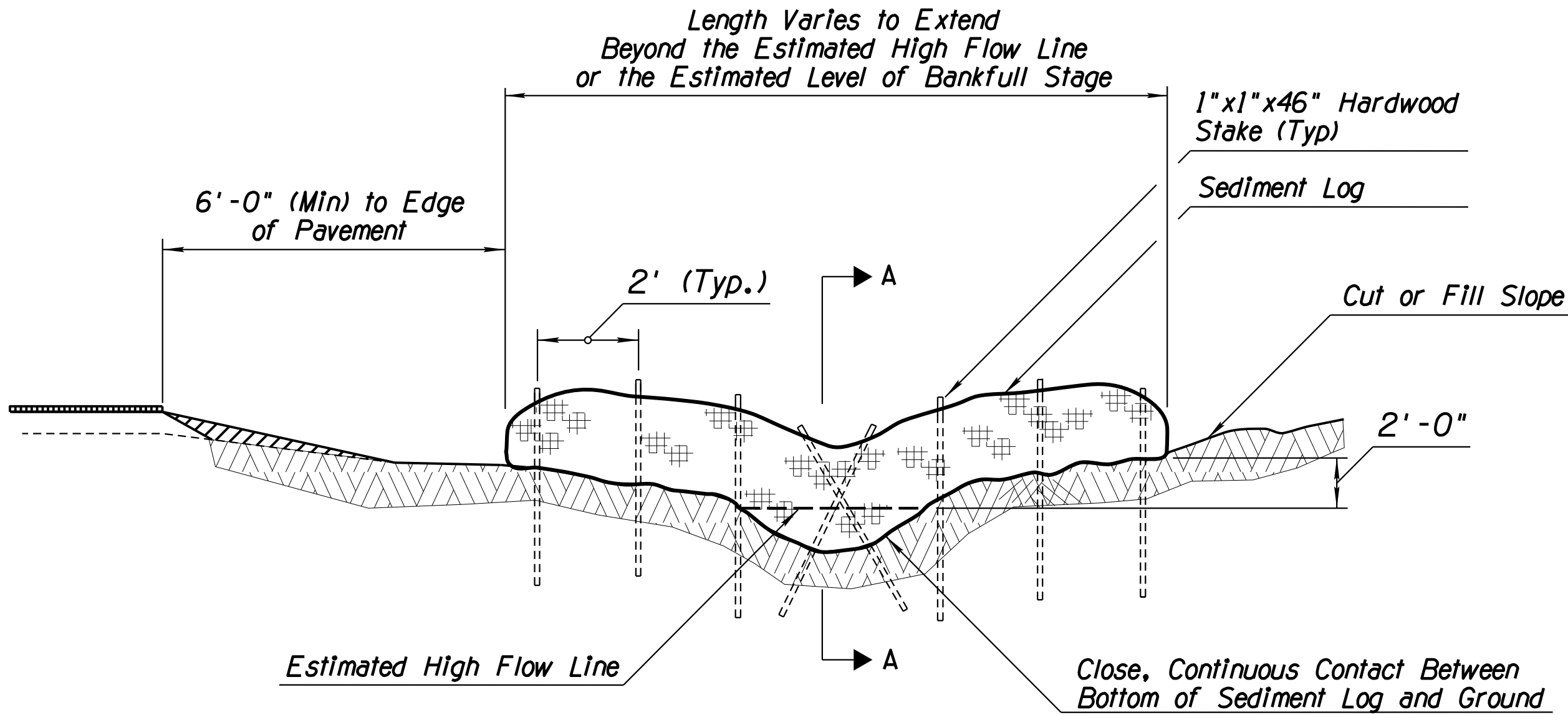


SEDIMENT LOG AT STORM DRAIN
SECTION B-B (NTS)

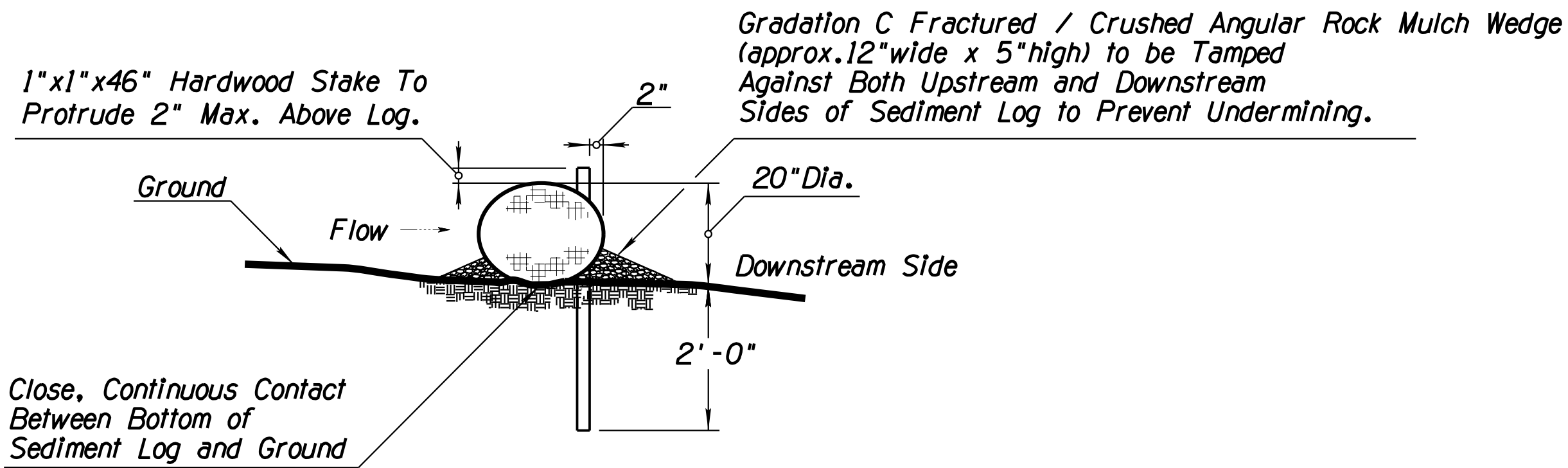


TYPICAL OVERLAP
PLAN (NTS)

- NOTES:
1. Sediment Logs shall not be installed in the urban freeway medians, nor where cable barrier systems are employed.
 2. Locate Sediment Logs as indicated in plans, SWPPP or as directed by the Engineer.
 3. Select, install and maintain Logs per manufacturers' specifications and good engineering practices.
 4. Lay Sediment Log across prepared roadside ditch or channel. Trenching or burial of Sediment Logs is not required. The close, continuous contact between the bottom of the Log and the ground is mandatory. The Logs shall be installed in the roadside ditch, swale or channel bottom perpendicular to the flow of water as shown on detail this sheet.
 5. Stake Log as shown. Stakes shall be placed through downstream side only as shown.
 6. DO NOT drive stakes through center of the Log. Stakes must be driven into the ground as shown.
 7. Ensure that no gaps exist between soil and bottom of Sediment Log. Repair any rills or undercuts promptly.
 8. Placement of Sediment Logs shall be evaluated by the Engineer in rocky soil conditions.
 9. Remove Sediment Log BMPs within the ditches/channels and around the storm drain inlets as per the direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
 10. Dispose of Sediment Logs and trapped sediment material and fill trench created by Sediment Log.
 11. The installation and maintenance of Sediment Log BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Sediment Logs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
 12. Make field adjustments and corrections of Sediment Log BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
 13. Rock mulch/riprap may be required for channel/ditch lining or rock check dams for longitudinal ditch slopes that exceed 5% and/or for soil conditions not suitable for Log installation.
 14. The Sediment Log BMP's pay/bld item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal, as well as returning the area to an acceptable condition as approved by the Engineer.
 15. Refer to Standard PAG Standard Specification Section 810-2.04(B) for Sediment Log material specifications.
 16. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.
 17. Construct Rock Wedge with angular-shaped Gradation C Rock Mulch. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.



SEDIMENT LOG IN DITCH/CHANNEL
SECTIONAL ELEVATION (NTS)



SECTION A-A (NTS)

DETAIL ES2
SEDIMENT LOG

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	LM	
03/2026				
03/2026				

No.	Revision	Description	Engineer	Date



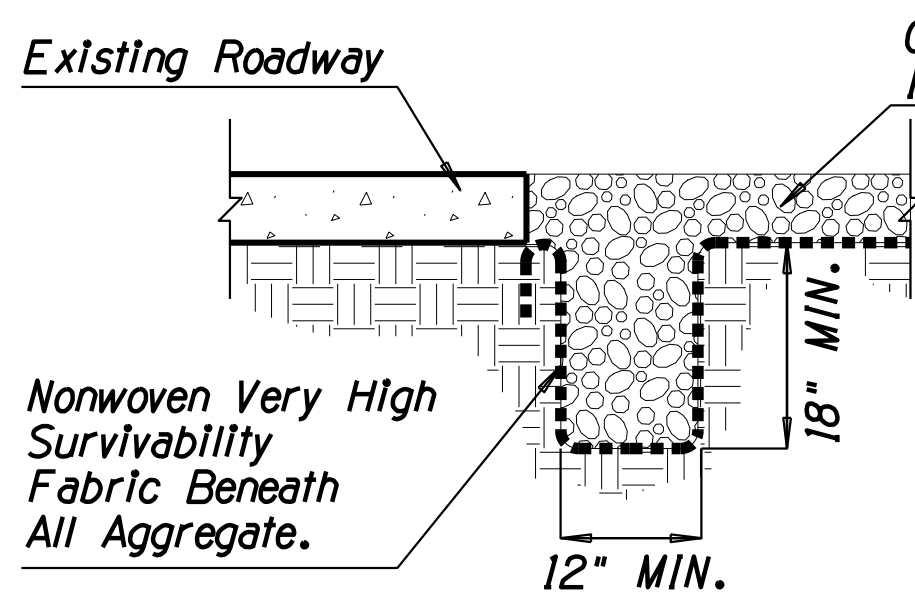
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: Madera Canyon Road
Client: Madera Canyon Road
File: P:\24041PJ\24041PJ-01\24041PJ-01.dwg
Pentable: FULL.tbl
Plot: Nevada-plot.ctb

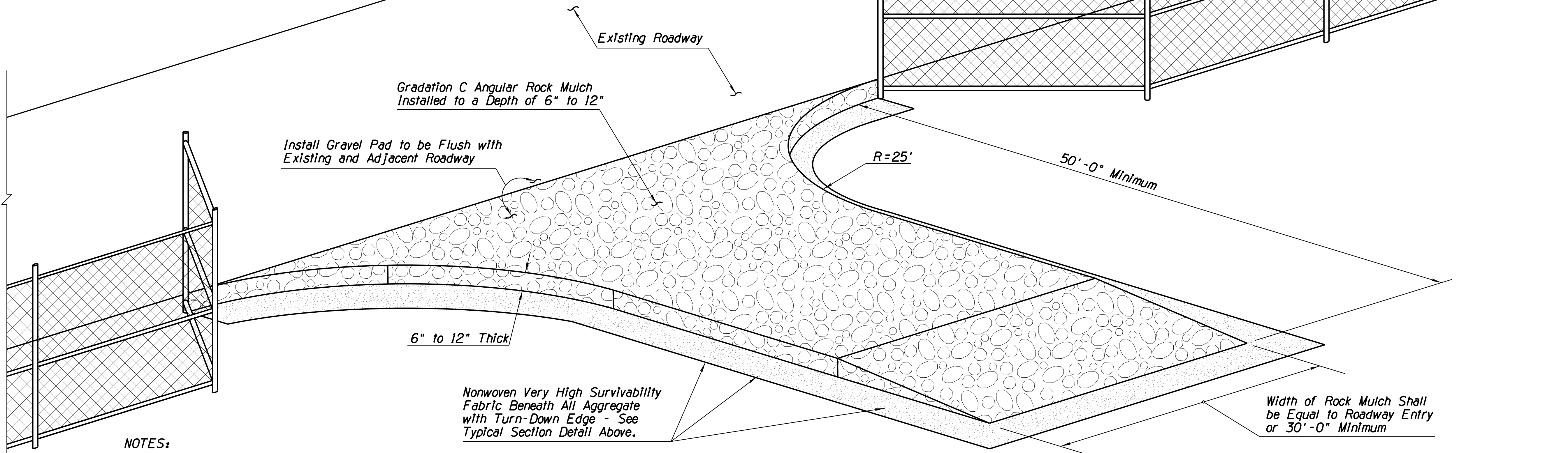
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					



EDGE TREATMENT TRENCHING
TYPICAL SECTION (NTS)

NOTES II:

1. Install nonwoven fabric when water is applied for construction vehicle/equipment cleaning on Gravel Pad.
2. Edge treatment trenching and nonwoven fabric shall not be required if NO wash water is used for vehicle/equipment cleaning.
3. The depth of Gravel Pad varies from 6" to 12" based on the necessities of construction vehicle/equipment as per the approval of the Engineer.



BIRD'S EYE VIEW (NTS)

NOTES:

1. Install Stabilized Construction Entrance/Exit Gravel Pad BMP for traffic entering or exiting a construction site where sedimentation, clay, silt or other pollutants can be tracked onto public roads and/or adjacent water bodies, as approved by the Engineer. It may also be applied for construction entrance/exit wind erosion/dust control, as approved by the Engineer.
2. Locate new Construction Entrance(s)/Exit(s) at appropriate project entrance/exit points as determined in field with the approval of the Engineer. Relocate Stabilized Construction Entrance/Exit Gravel Pad BMP as needed as project progresses. Replace Rock Mulch materials in drive paths when dirt or mud accumulates.
3. Nonwoven Very High Survivability Fabric shall conform to the standards of the PAG Standard Specifications.
4. Rock Mulch materials shall be fractured/crushed rocks in angular shape. Natural river-run materials, especially rounded natural river rocks are not acceptable.
5. Make field adjustments and corrections of Construction Entrance/Exit Gravel Pad BMP immediately if it is causing flooding and/or affecting roadway safety.
6. When paid separately, the Stabilized Construction Entrance/Exit Gravel Pad BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
7. * Fence/barricade pay/bid item shall not be included as a component of the Stabilized Construction Entrance/Exit Gravel Pad BMP pay/bid item.
8. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES4
STABILIZED CONSTRUCTION
ENTRANCE/EXIT GRAVEL PAD

Kathryn Skinner, P.E., Director

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road Wash Bridge Replacement

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Florida2-pdt.pho fg

Client: Madera Canyon Road Wash Bridge Replacement

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

T0540 OIC

Contact Arizona 811 at least two full working days before you begin excavation

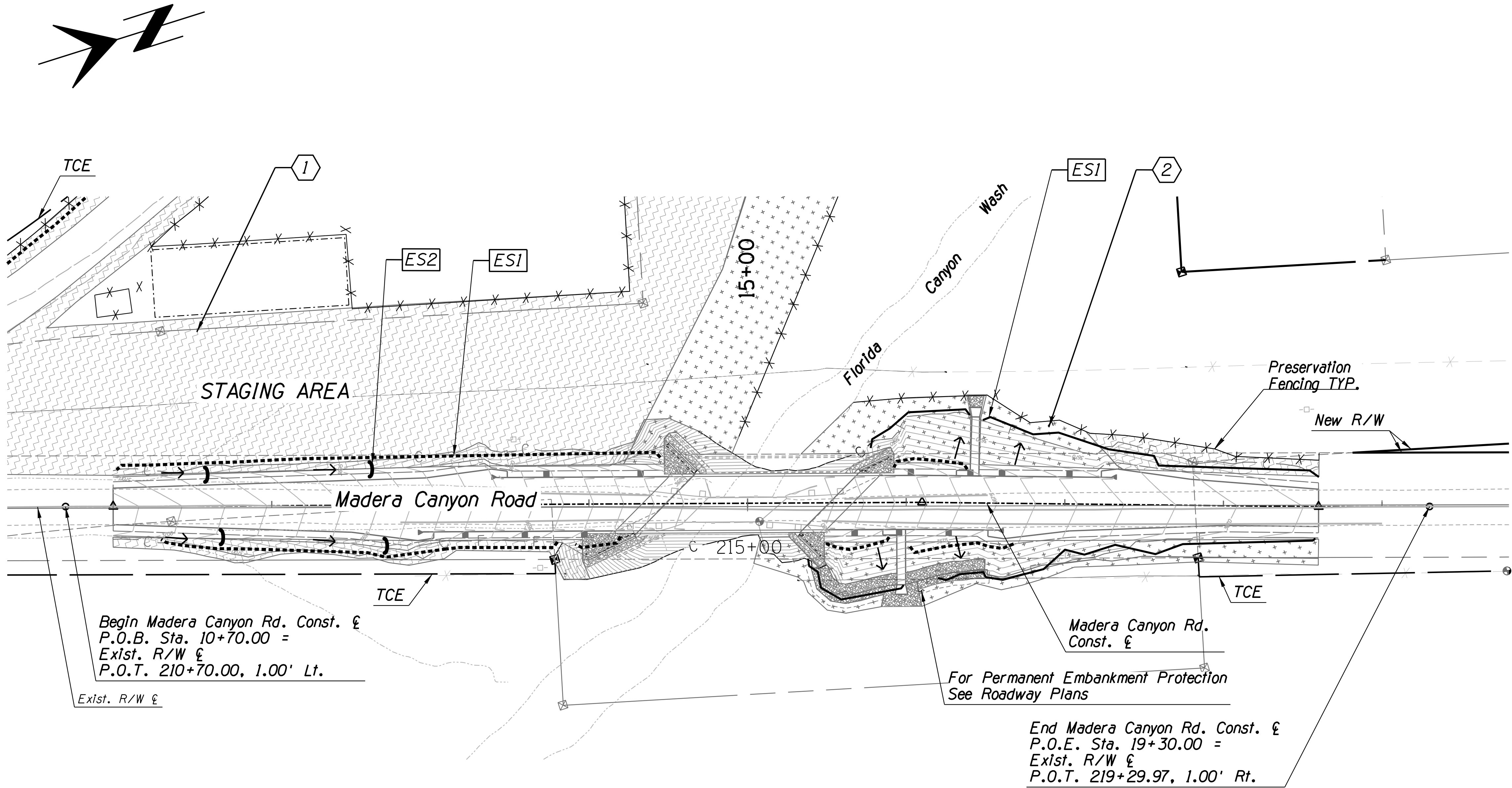
ARIZONA
811

Call 811 or click Arizona811.com

EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ESI	9" Dia. Sediment Wattle	
ESI	20" Dia. Sediment Wattle	
ES2	20" Dia. Sediment Log	
1	Seeding (Class II) Desert Scrub	
2	Seeding (Class II) Xeroriparian	
	Flow Arrow	

- NOTES:
- Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 - Refer to Project Specifications for additional information.
 - Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.



EROSION CONTROL PLAN
STA. 11+00 TO 18+60

Kathryn Skinner, P.E., Director

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

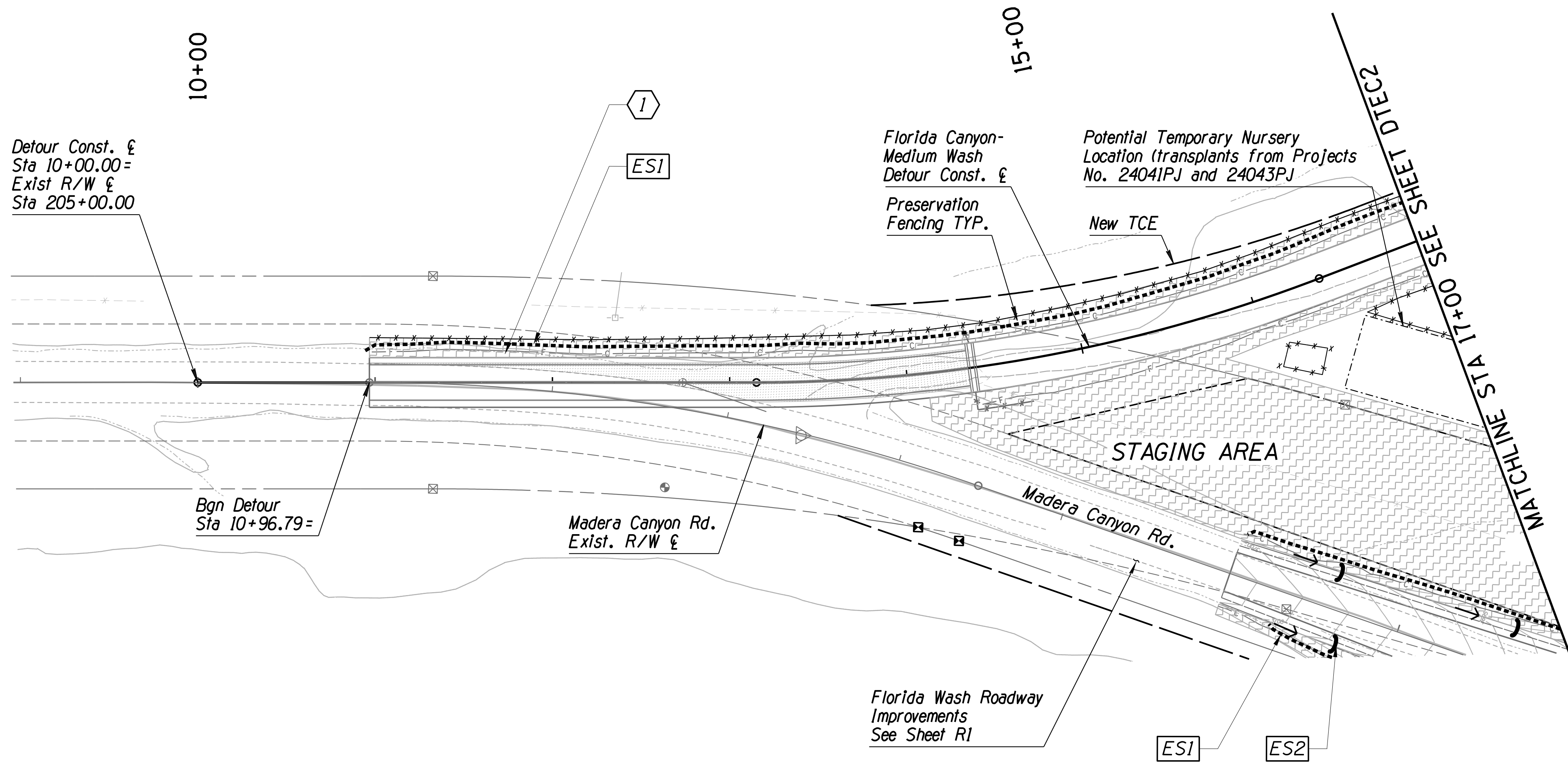
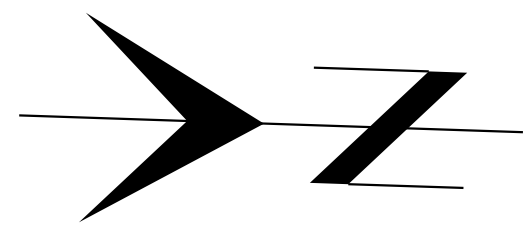
No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
File: 24041PJ-FULL.tbl
Printed: 5/7/2026 3:46:07 PM
Printed By: JMoscatto



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

Contact Arizona 811 at least two full working days before you begin excavation

ARIZONA 811

Call 811 or click Arizona811.com

EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ES1	9" Dia. Sediment Wattle	
ES1	20" Dia. Sediment Wattle	
ES2	20" Dia. Sediment Log	
1	Seeding (Class II) Desert Scrub	
2	Seeding (Class II) Xeroriparian	
	Flow Arrow	

- NOTES:
1. Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 2. Refer to Project Specifications for additional information.
 3. Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.

DETOUR EROSION CONTROL PLAN
STA. 10+00 TO 17+00

Kathryn Skinner, P.E., Director

No.	Revision	Description	Engineer	Date

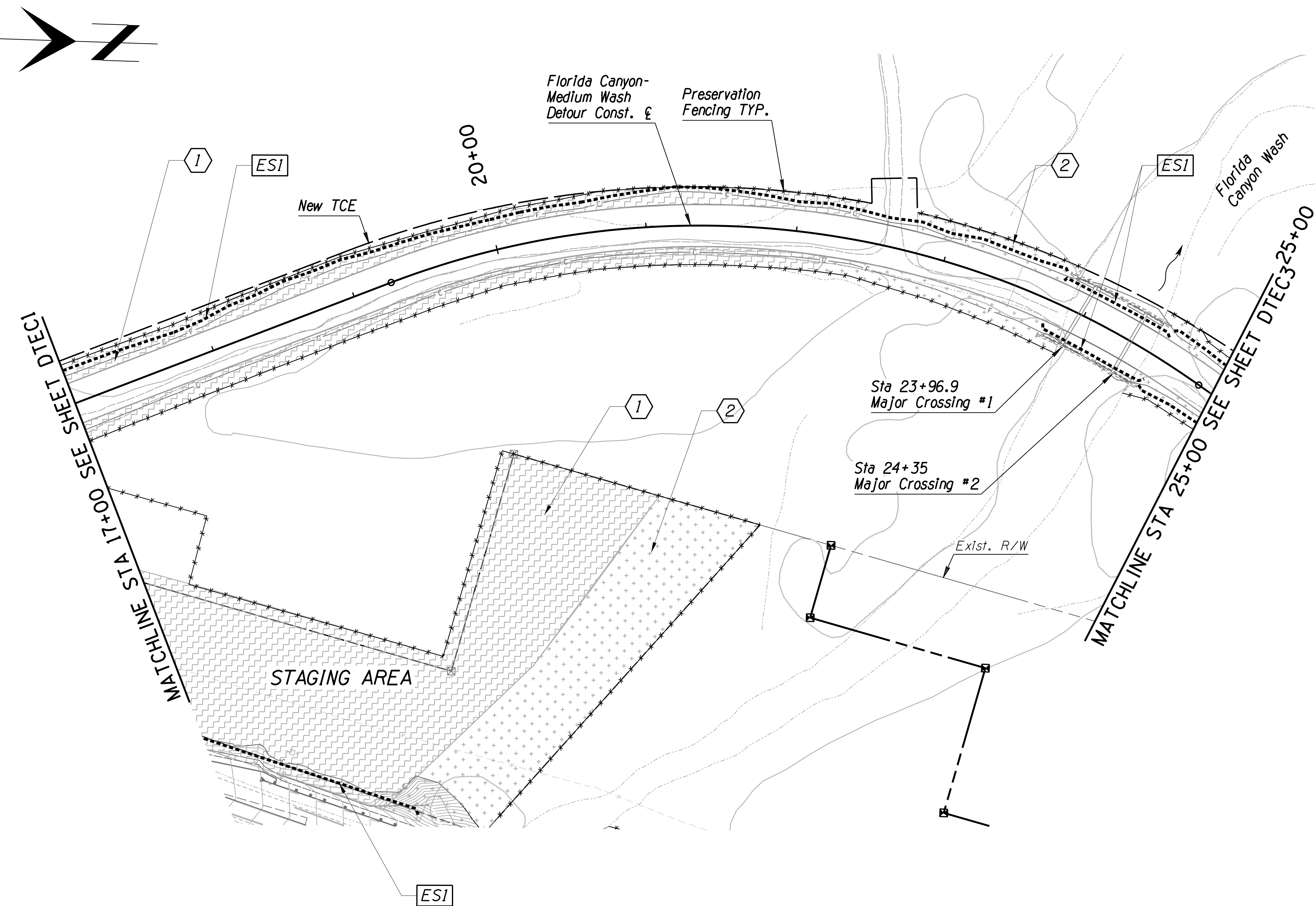
Date	Checked	Drawn	Designed
03/2026	JM	JM	JM
03/2026	JM	JM	JM
03/2026	JM	JM	JM



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
File: 24041PJ-DTEC2-PLAN.dwg
Pentable: 24041PJ-DTEC2-PLAN.dwg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

Contact Arizona 811 at least two full working days before you begin excavation
Call 811 or click Arizona811.com

EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ESI	9" Dia. Sediment Wattle	
ESI	20" Dia. Sediment Wattle	
ES2	20" Dia. Sediment Log	
1	Seeding (Class II) Desert Scrub	
2	Seeding (Class II) Xeroriparian	
	Flow Arrow	

- NOTES:
1. Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 2. Refer to Project Specifications for additional information.
 3. Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.

Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

WHEAT
a J Design Studio

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
46501
LAURA MIELCAREK
ARIZONA U.S.A.
05/07/2025

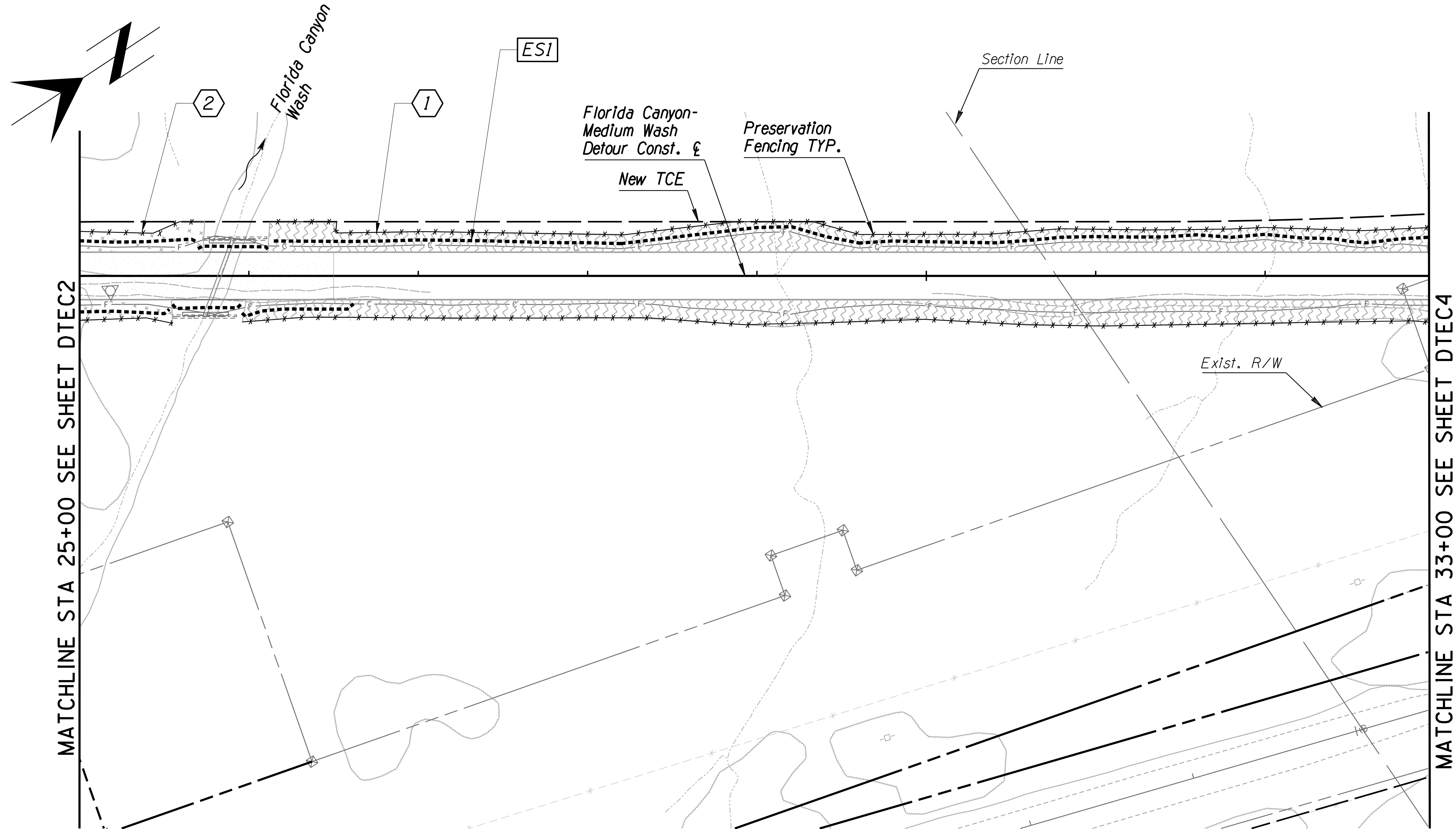
Kathryn Skinner, P.E., Director

No.	Revision	Description	Engineer	Date

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	JM	
03/2026				
03/2026				

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Wash Bridge Replacement
File Path: Pentabld2_FULL.tbl
File Path: Floridnva2-pdf.plt,plc,fg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

T0540 OIC



EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ES1	9" Dia. Sediment Wattle	---
ES1	20" Dia. Sediment Wattle	U
ES2	20" Dia. Sediment Log	C
1	Seeding (Class II) Desert Scrub	Wavy lines
2	Seeding (Class II) Xeroriparian	Star pattern
	Flow Arrow	→

- NOTES:
1. Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 2. Refer to Project Specifications for additional information.
 3. Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.

DETOUR EROSION CONTROL PLAN
STA. 25+00 TO 33+00

Pima County Department of Transportation

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ



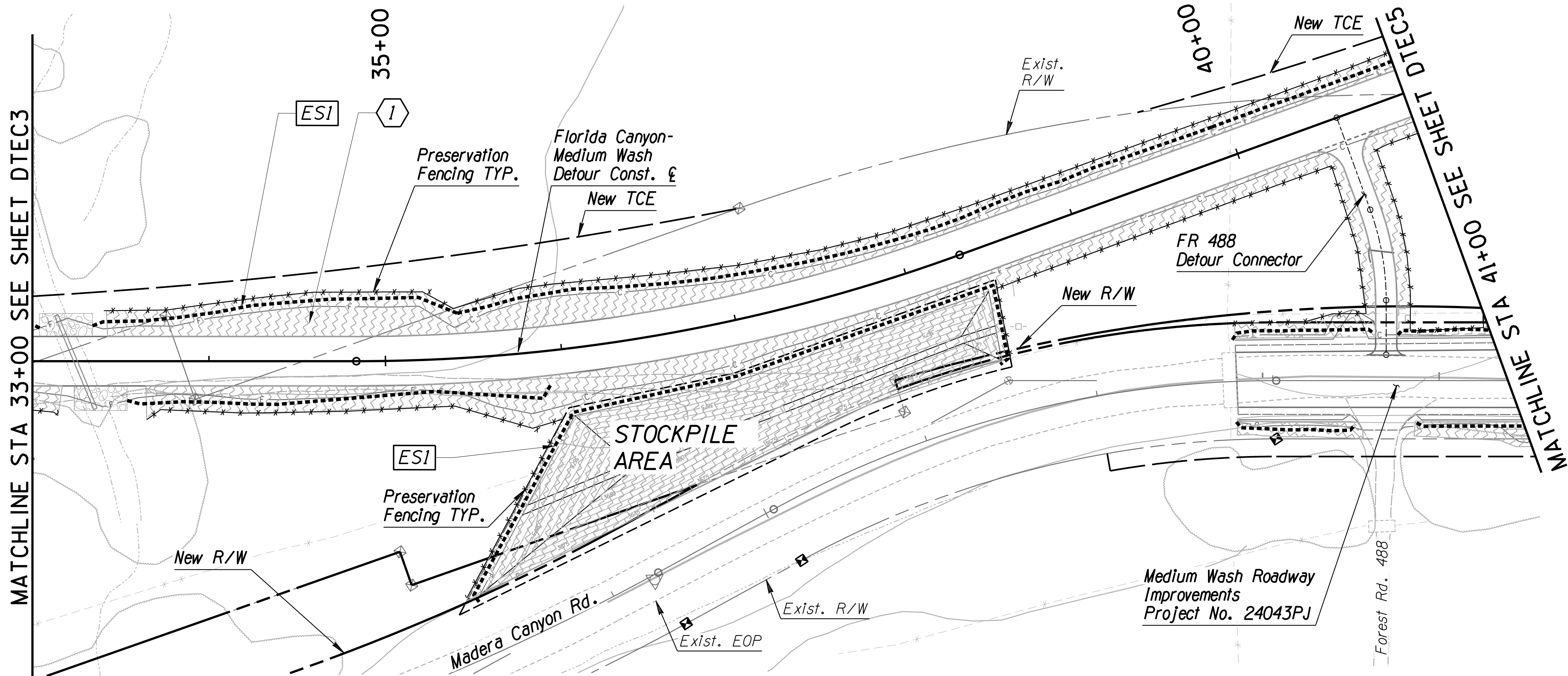
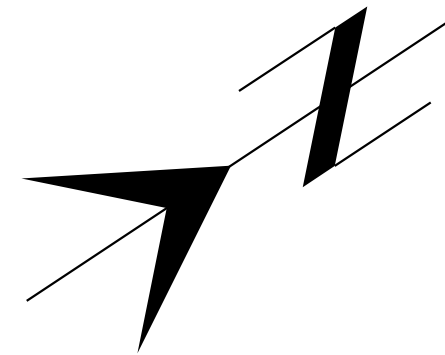
No.	Revision	Description	Engineer	Date

Date	JM	JM	JM	JM
03/2026	Designed	Drawn	Checked	Proj. Engr.
03/2026				
03/2026				

Kathryn Skinner, P.E., Director

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
File: 24041PJ-DTEC4.dwg
Pentable: FULL.tbl
Plot: 24041PJ.dwg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					



EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ES1	9" Dia. Sediment Wattle	---
ES1	20" Dia. Sediment Wattle	---
ES2	20" Dia. Sediment Log	---
1	Seeding (Class II) Desert Scrub	---
2	Seeding (Class II) Xeroriparian	---
	Flow Arrow	→

- NOTES:
1. Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 2. Refer to Project Specifications for additional information.
 3. Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.

Pima County Department of Transportation

Kathryn Skinner, P.E., Director

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

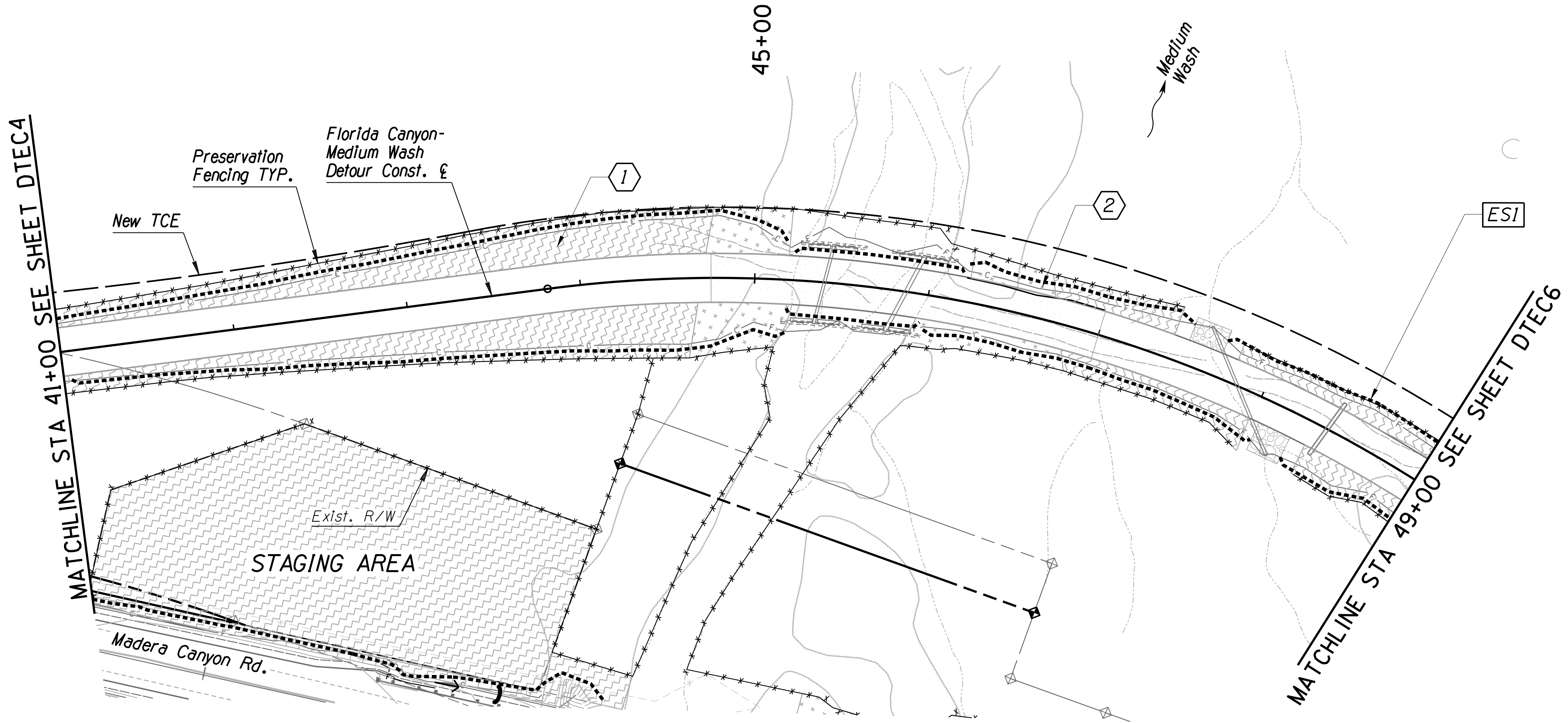
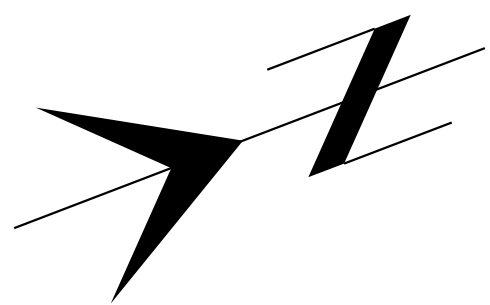


No.	Revision	Description	Engineer	Date

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	JM	
03/2026				
03/2026				

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
File: 24041PJ-FULL.tbl
Plot: 24041PJ-FULL.pdf



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

Contact Arizona 811 at least two full working days before you begin excavation
Call 811 or click Arizona811.com

EROSION AND POLLUTION CONTROL BMP SCHEDULE

KEYNOTE	BMP	SYMBOL
ES1	9" Dia. Sediment Wattle	
ES1	20" Dia. Sediment Wattle	
ES2	20" Dia. Sediment Log	
1	Seeding (Class II) Desert Scrub	
2	Seeding (Class II) Xeroriparian	
	Flow Arrow	

- NOTES:
1. Refer to Summary of Quantities & Notes Sheet, ECN1, for quantities and General Notes.
 2. Refer to Project Specifications for additional information.
 3. Refer to Drainage Plans and Details for Riprap locations and permanent erosion control structures.

Pima County Department of Transportation

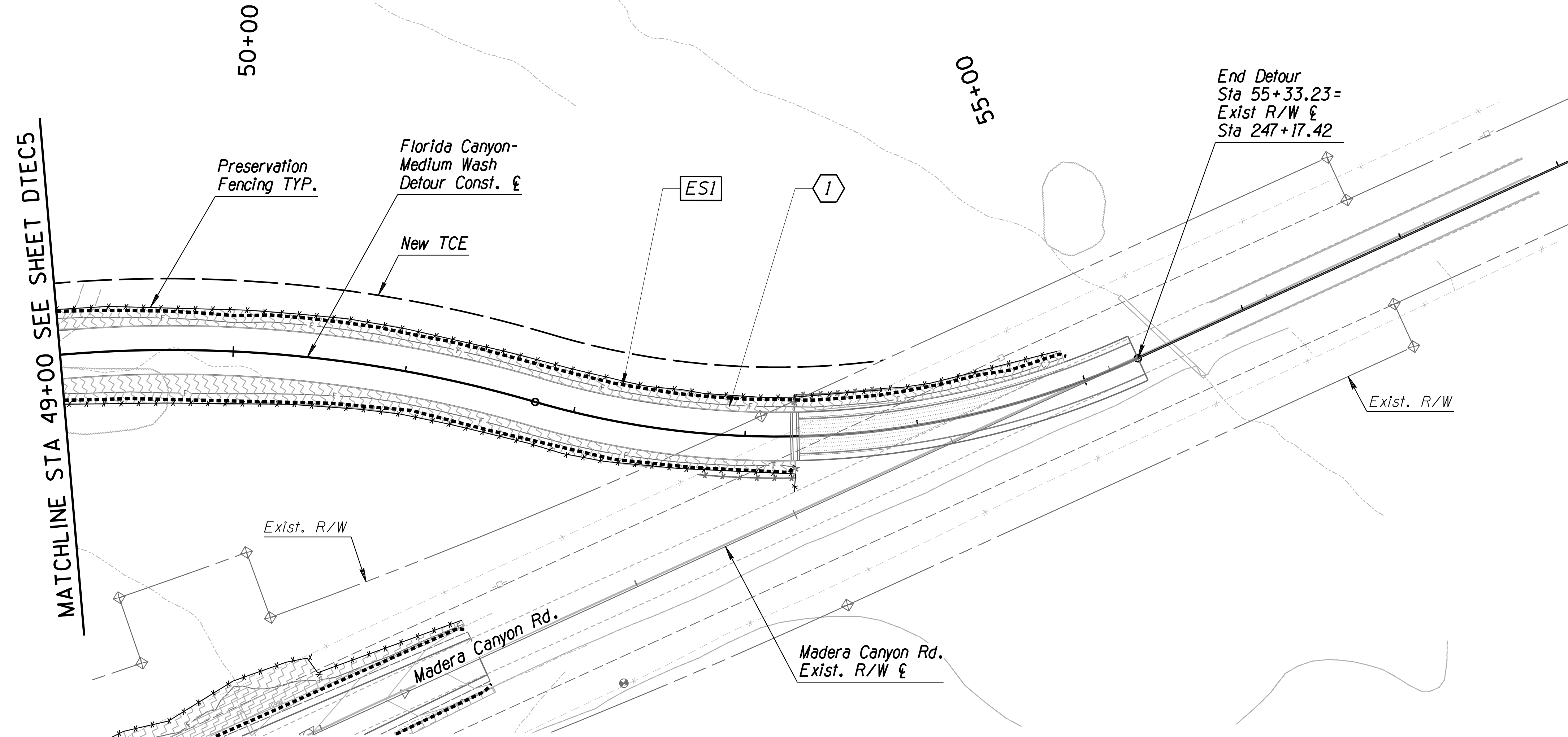
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	JM	
03/2026				
03/2026				

No.	Revision	Description	Engineer	Date

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



Contact Arizona 811 at least two full working days before you begin excavation



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KEYNOTE	BMP	SYMBOL
	9" Dia. Sediment Wattle	
	20" Dia. Sediment Wattle	
	20" Dia. Sediment Log	
	Seeding (Class II) Desert Scrub	
	Seeding (Class II) Xeroriparian	
	Flow Arrow	

- | | | Date |
|--------------------|----|-----------|
| <i>Designed</i> | JM | 03/ /2026 |
| <i>Drawn</i> | JM | 03/ /2026 |
| <i>Checked</i> | LM | 03/ /2026 |
| <i>Proj. Engr.</i> | | 03/ /2026 |

No.	Revision Description	Engineer	Date



Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Pima County Department of Transportation

<i>Scales</i>	<i>Horiz. 1" = 40'</i>	<i>Sheet DTEC6 of DTEC6</i>	<i>Page 55 of 80</i>
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Project: 24041PJ
Client: MCDERMOTT
Pentabridge.FULL.tbl
Floridawash-pd1.pdf

PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME	UNIT	QTY.	REFERENCE	BID ITEM NO.
TRANSPLANTED					
	Transplanted Ocotillo	E.A.	49	Detail 1, Sheet LPD1	8090049
	Transplanted Cactus	E.A.	3	Detail 2, Sheet LPD1	8090046
EXISTING					
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations				

MATERIALS SCHEDULE

SYMBOL	NAME	UNIT	QTY.	REFERENCE	BID ITEM NO.
	Preservation Fencing	L.F.	9,460	Detail 3, Sheet LPD1	2010004

LANDSCAPE APPROACH:

Before construction begins, Contractor to salvage specified plants on the NPI plans (49 Ocotillo and 3 Cacti (2 Agave spp. and 1 Barrel Cacti). Salvaged plants will be placed in a Temporary Nursery located on the Landscape Plans, Bid Item No. 8090001. Prior to the start of construction, Contractor to install Preservation Fencing (Type A), Bid Item No. 2010004, as shown on the Landscape Plans. Preservation Fencing is used to protect natural areas on both sides of the Detour and protect existing vegetation in the project area.

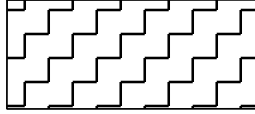
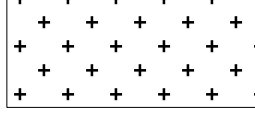
After roadway construction is complete, salvaged plants will be transplanted to their designated locations shown on the Landscape Plans. Preservation Fencing will be removed and seeding operations will be performed.

There will be a 1-year Landscape Establishment Period which includes hand-watering of salvaged plant material.

LANDSCAPE GENERAL NOTES:

- This Landscape Plan is in conformance with the Pima County Roadway Design Manual and Environmentally Sensitive Roadways (ESR) Design Guidelines.
- The Contractor shall be responsible for locating and protecting all underground utilities, pipes and structures prior to starting work. Contractor shall take sole responsibility for any cost incurred due to damage of these utilities during the installation of plants or water harvesting basins.
- Refer to Special Provisions for additional information.
- All disturbed areas to receive seed mix. Seed mix shall be installed to 10' from cut/fill line, Right-of-Way line, or limits of disturbance, whichever is greater.
- Tillage shall be performed in seeded areas to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Project Specifications.

SEED MIX SCHEDULE

SYM./KEY	BOTANICAL NAME	COMMON NAME	PLS RATE	QTY
SEED MIX (CLASS II)				
	Ambrosia deltoidea	Triangle Leaf Bursage	3.0 lbs./ac.	4.2 AC
	Aristida purpurea	Purple Threeawn	1.5 lbs./ac.	
	Bailey multiradiata	Desert Marigold	2.0 lbs./ac.	
	Bouteloua aristidoides	Needle Grama	1.0 lbs./ac.	
	Bouteloua curtipendula	Sideoats Grama	1.0 lbs./ac.	
	Bouteloua rothrockii	Rothrock Grama	2.0 lbs./ac.	
	Dyssodia pentachaeta	Golden Dyssodia	1.0 lbs./ac.	
	Encella farinosa	Brittlebush	2.0 lbs./ac.	
	Escholtzia mexicana	Desert Poppy	2.0 lbs./ac.	
	Isocoma tenuisecta	Burrowweed	1.0 lbs./ac.	
	Lesquerella gordonii	Bladderpod	1.0 lbs./ac.	
	Lupinus sparsiflorus	Lupine	1.0 lbs./ac.	
	Plantago insularis	Desert Indian Wheat	3.0 lbs./ac.	
	Senna covesii	Desert Senna	2.0 lbs./ac.	
	Sphaeralcea ambigua	Desert Globemallow	1.0 lbs./ac.	
	Zinnia acerosa	Desert Zinnia	0.5 lbs./ac.	
	TOTAL PLS RATE:		25 PLS/ACRE	
	Acacia constricta	Whitethorn Acacia	1.5 lbs./ac.	.9 AC
	Acacia greggii	Catclaw Acacia	1.5 lbs./ac.	
	Aristida purpurea	Purple Threeawn	0.5 lbs./ac.	
	Atriplex polycarpa	Cattle Saltbush	0.5 lbs./ac.	
	Bailey multiradiata	Desert Marigold	1.0 lbs./ac.	
	Bouteloua aristidoides	Needle Grama	1.0 lbs./ac.	
	Bouteloua curtipendula	Sideoats Grama	1.5 lbs./ac.	
	Bouteloua rothrockii	Rothrock Grama	1.0 lbs./ac.	
	Calliandra eriophylla	Fairy Duster	1.0 lbs./ac.	
	Diglitaria californica	Arizona Cottontop	1.0 lbs./ac.	
	Escholtzia mexicana	Desert Poppy	1.0 lbs./ac.	
	Isocoma tenuisecta	Burrowweed	1.0 lbs./ac.	
	Larrea tridentata	Creosote	2.0 lbs./ac.	
	Lesquerella gordonii	Bladderpod	1.0 lbs./ac.	
	Lupinus sparsiflorus	Lupine	1.0 lbs./ac.	
	Celtis pallida	Desert Hackberry	2.0 lbs./ac.	
	Celtis reticulata	Netleaf Hackberry	1.5 lbs./ac.	
	Prosopis velutina	Velvet Mesquite	1.0 lbs./ac.	
	Psilostrophe cooperi	Paperflower	1.0 lbs./ac.	
	Senna covesii	Desert Senna	1.0 lbs./ac.	
	Sphaeralcea ambigua	Desert Globemallow	0.5 lbs./ac.	
	Sporobolus cryptandrus	Sand Dropseed	1.0 lbs./ac.	
	Zinnia acerosa	Desert Zinnia	0.5 lbs./ac.	
	TOTAL PLS RATE:		25 PLS/ACRE	

F.H.W.A. REGION

9

STATE

ARIZ.

PROJECT NO.

PPM-0127310

SHEET NO.

TOTAL SHEETS

AS BUILT

T0540 OIC

Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

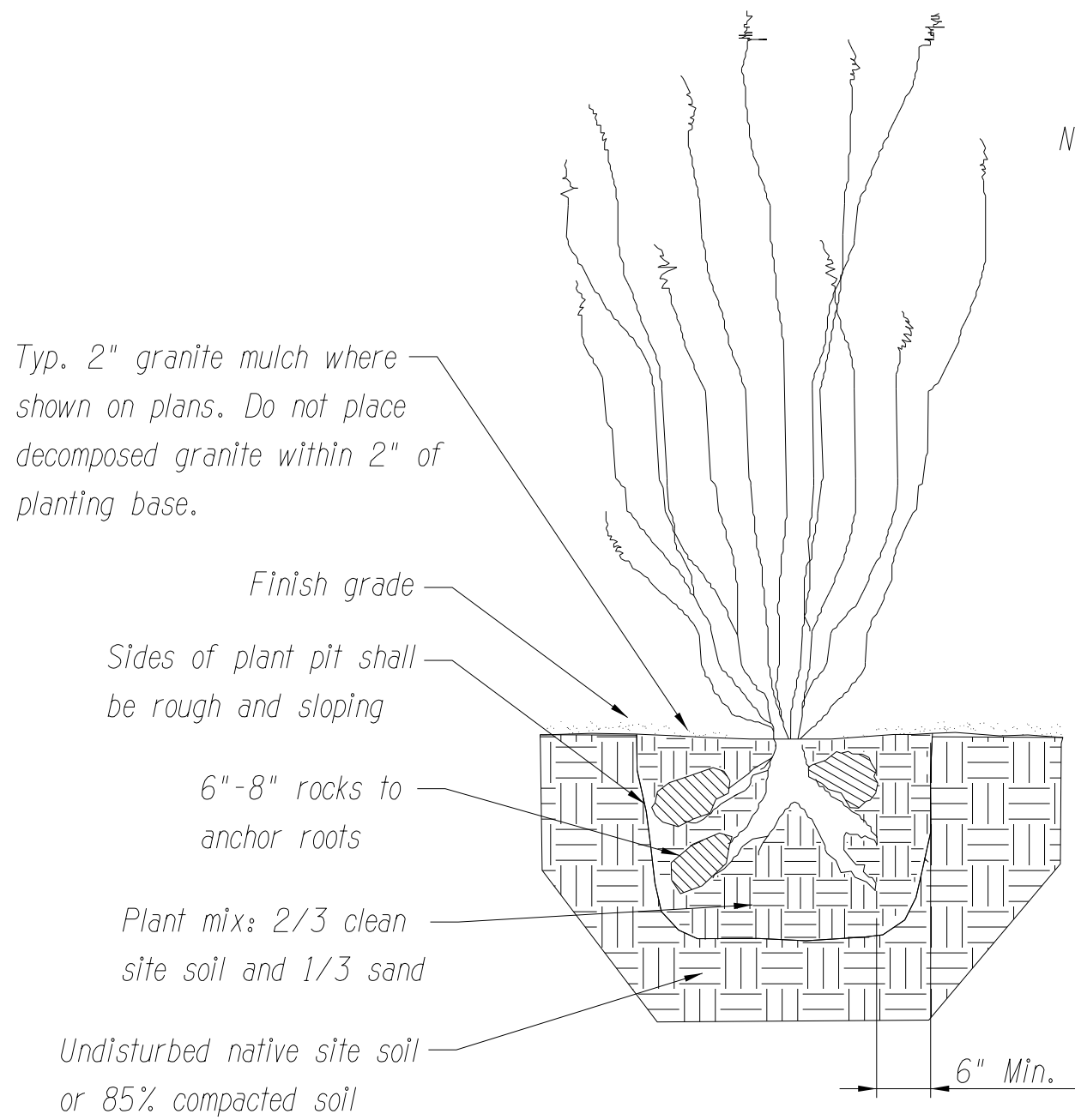
Kathryn Skinner, P.E., Director

Pima County Department of Transportation

LANDSCAPE MITIGATION NOTES

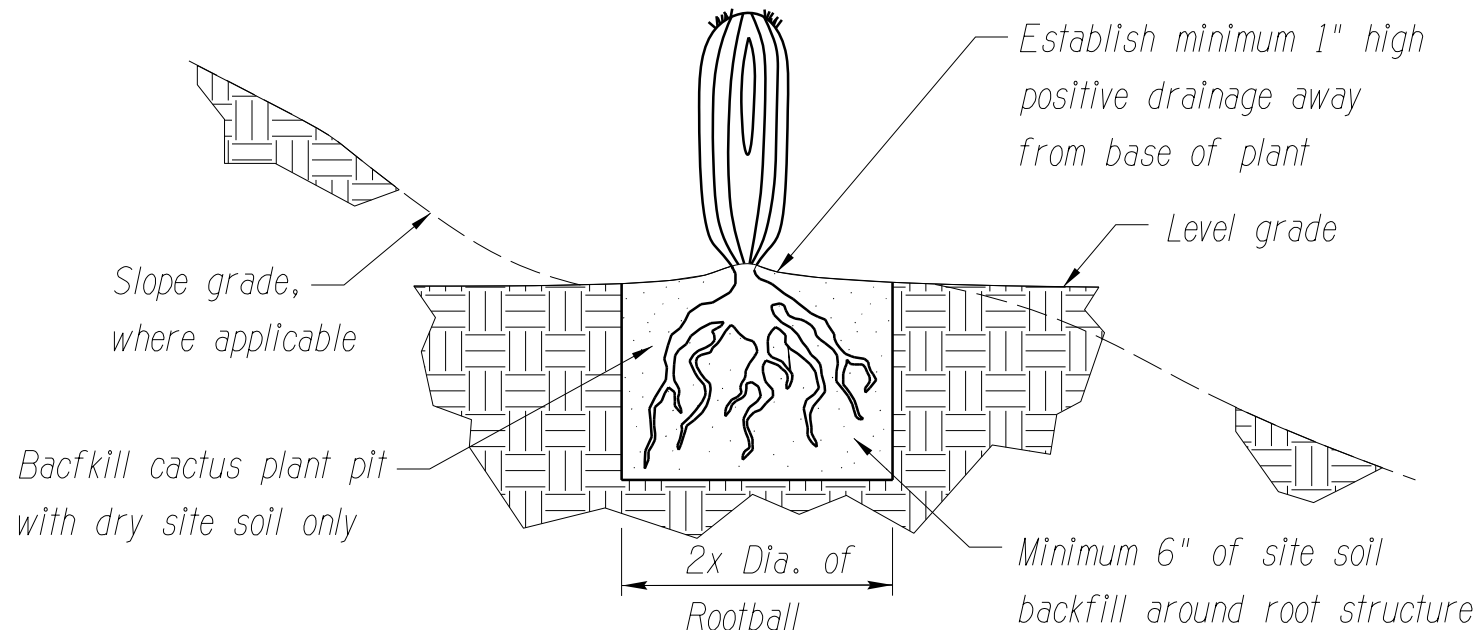
Project: 24041PJ
Client: Pima County Department of Transportation

Planting Details
P:\24041PJ\24041PJ-Planting Details



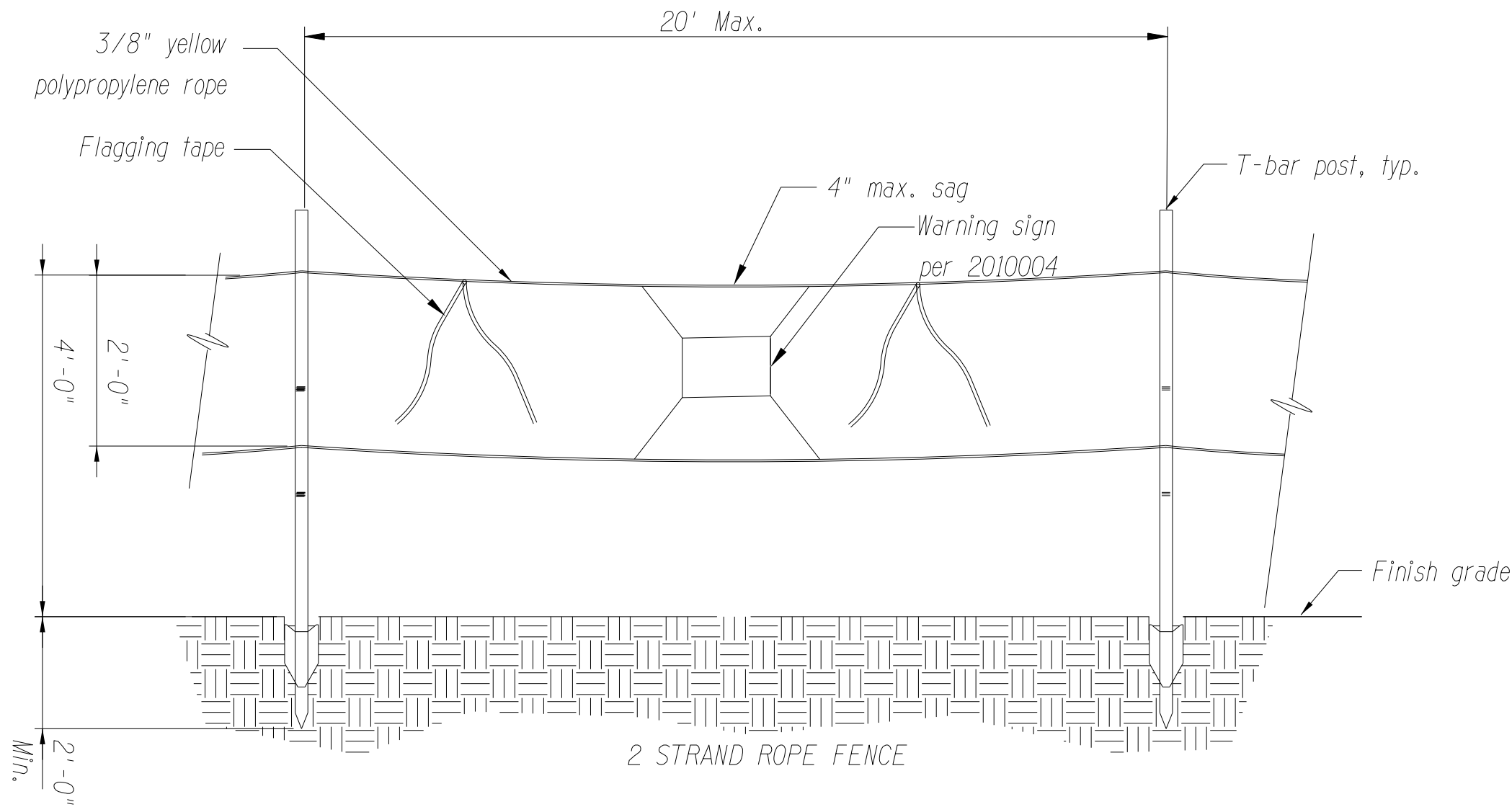
- NOTES:
1. Root prune all shredded or damaged roots. Ensure all wounds to the root system are clean cut before planting. Apply dusting sulphur to all areas below grade.
 2. Water weekly through summer as required.
 3. Bare roots shall not be out of the ground for more than five days before planting.
 4. Planting depth to be that at which plant was grown.
 5. Plant roots shall not be allowed to desiccate before planting.

1 OCOTILLO (SALVAGE) PLANTING DETAIL
N.T.S.



- NOTES:
1. Plant barrel cactus and agave in same orientation as grown.
 2. Root prune all shredded or damaged roots.
 3. Spray with antibiotic, dust all wounds and roots with wettable dusting sulfur.
 4. Bare root barrel cacti and agave shall not be stored outside of ground longer than five days.
 5. Planting depth shall be that at which plant was grown.
 6. Roughen bottom and sides of plant pit prior to setting.
 7. Backfill shall be free of injurious rocks and debris.

2 BARE ROOT CACTUS (SALVAGE) PLANTING DETAIL
N.T.S.



- NOTES:
1. Posts to be either hardwood stakes or metal t-posts six feet (6') long minimum with a minimum embedment of two feet (2') into the ground.
 2. Rope to be attached to fence posts using plastic or wire ties.
 3. Warning signs shall be made of durable, weatherproof material. Lettering to be times new roman or aerial font, red in color, minimum 1 inch in height, securely attached in the upper half of the fence and placed at 50-foot maximum intervals.
 4. Flagging tape shall be 1-3/16 inch, 4-mil thickness, no adhesive vinyl, flourescent solid color and attached to the top rope on both sides of the warning sign.
 5. Preservation fence (Type B) maybe be used in lieu of preservation fencing when directed by the engineer or specified on the project plans.

3 PRESERVATION FENCING TYPE A
N.T.S.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

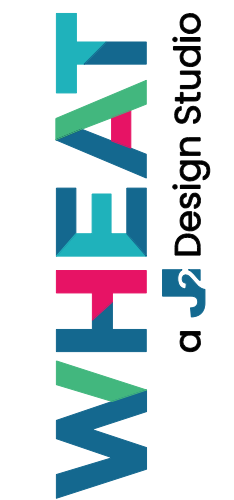
T0540 OIC



Kathryn Skinner, P.E., Director

Date	03/2026	03/2026	03/2026	03/2026
Designed	JM	JM	LM	
Drawn				
Checked				
Proj. Engr.				

No.	Revision	Description	Engineer	Date



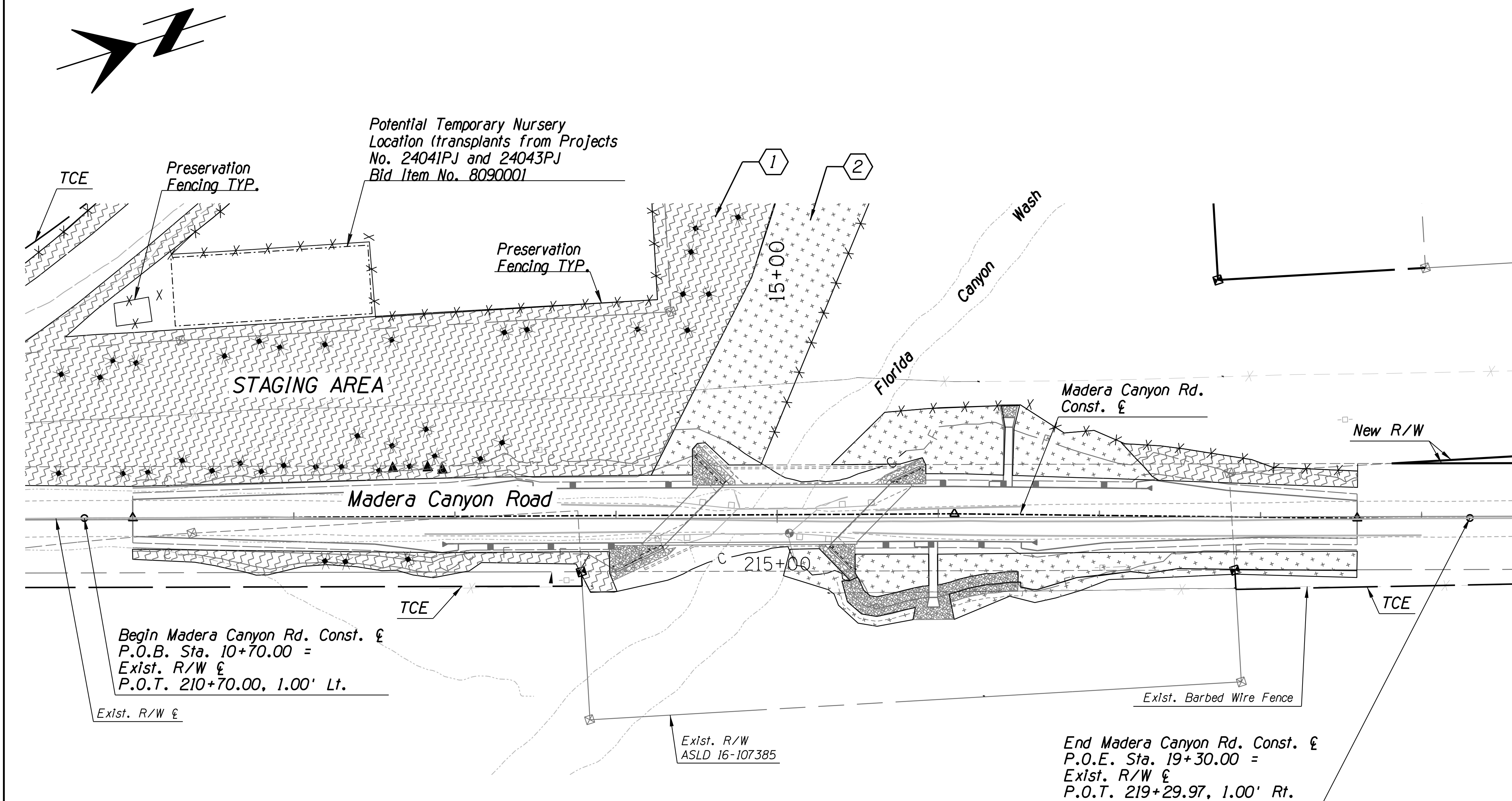
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

LANDSCAPE MITIGATION DETAILS

Scales		Sheet LPDI of LPDI	Page 57 of 80
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Project: 24041PJ
Client: Pima County Department of Transportation
File Path: Pentabld2-FULL.tbl
Florida2-pdt.plt



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

Call 811 or click Arizona811.com

PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME
TRANSPLANTED	
	Transplanted Ocotillo
	Transplanted Cactus
EXISTING	
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations

SEED MIX CLASS II

SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE

SYMBOL	NAME
	Preservation Fencing

LANDSCAPE MITIGATION PLAN
STA. 11+00 TO 18+00

Kathryn Skinner, P.E., Director

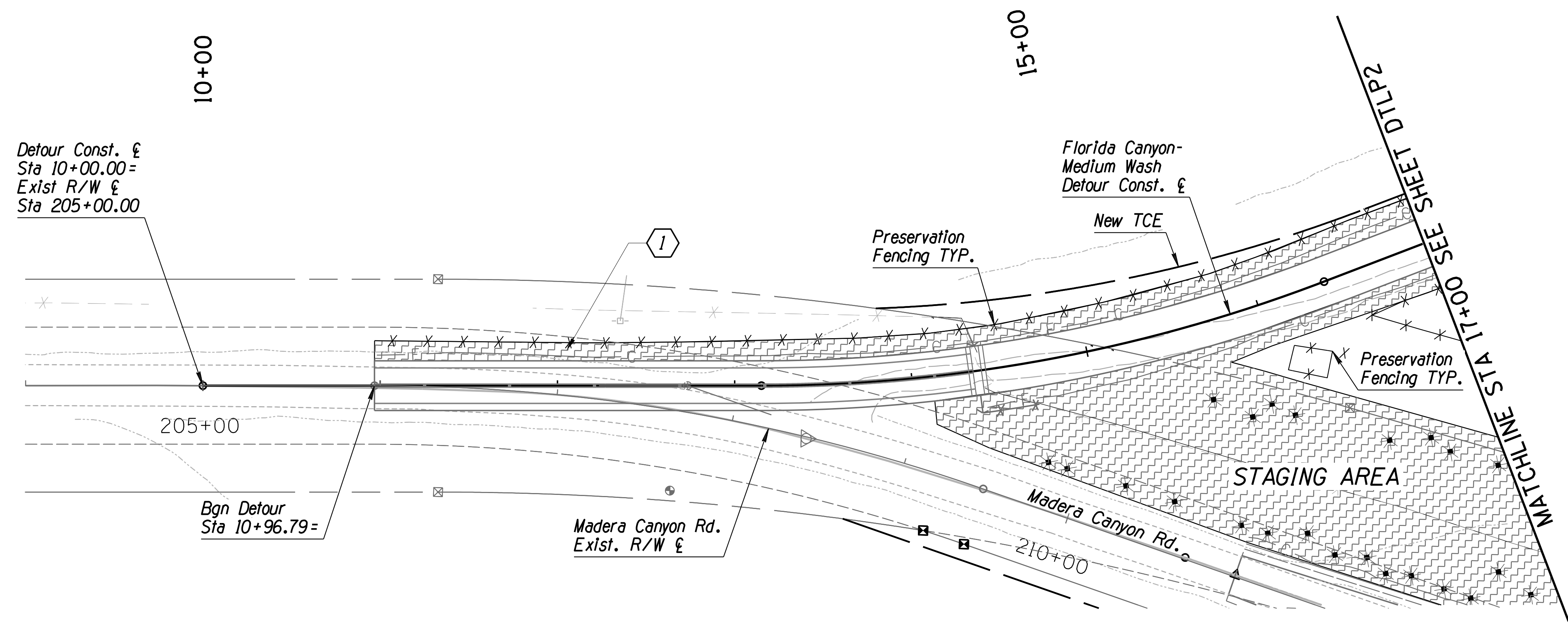
Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



Contact Arizona 811 at least two full working days before you begin excavation



Call 811 or click Arizona811.com

MATERIALS SCHEDULE	
SYMBOL	NAME
	Preservation Fencing

No.	Revision Description	Engineer	Date

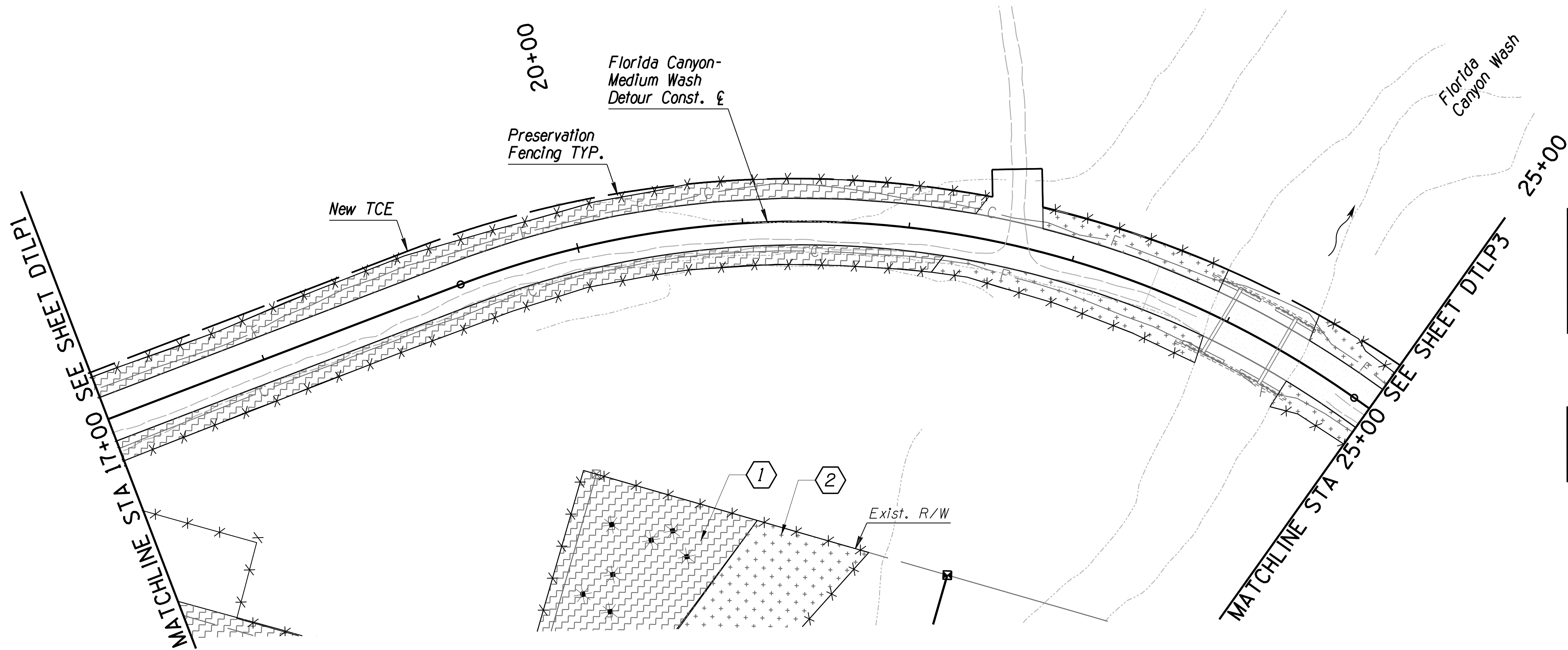
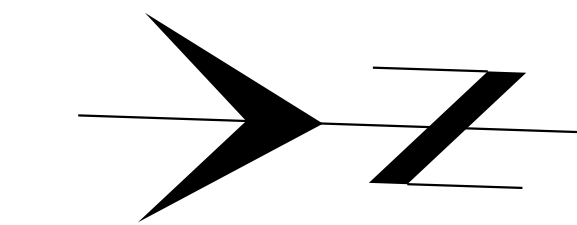


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 2404IPJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Road
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Florida2-pdt.phc fg



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

T0540 OIC



PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME
TRANSPLANTED	
	Transplanted Ocotillo
	Transplanted Cactus
EXISTING	
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations

SEED MIX CLASS II

SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE

SYMBOL	NAME
	Preservation Fencing

FLORIDA CANYON WASH-MEDIUM WASH
DETOUR LANDSCAPE MITIGATION PLAN
STA. 17+00 TO 25+00

Pima County Department of Transportation



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

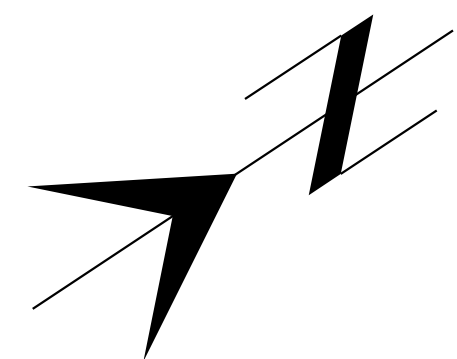


No.	Revision	Description	Engineer	Date

Date	JM	JM	LM	LM
03/2026				
03/2026				
03/2026				

Kathryn Skinner, P.E., Director

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)



MATCHLINE STA 25+00 SEE SHEET DTLP2 25+00

25+00

Florida Canyon Wash

*Preservation
Fencing TYP.*



1

Florida Canyon-
Medium Wash
Detour Const. £

New TCE

30+00

Section Line

Exist. R/W

MATCHLINE STA 33+00 SEE SHEET DTL P4

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0(273)D			

T0540 OIC



PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME
TRANSPLANTED	
	<i>Transplanted Ocotillo</i>
	<i>Transplanted Cactus</i>
EXISTING	
	<i>Preserve-in-Place Vegetation, Refer to NPI Sheets for locations</i>

SEED MIX CLASS II

SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE

<i>SYMBOL</i>	<i>NAME</i>
	<i>Preservation Fencing</i>

FLORIDA CANYON WASH-MEDIUM WASH
DETOUR LANDSCAPE MITIGATION PLAN
STA. 25+00 TO 33+00

Scales

Horiz. 1" = 40

Sheet DTLP3 of DTLP6

Page 61 of 80

Pima County Department of Transportation



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

		Date
Designed	JM	03/2026
Drawn	JM	03/2026
Checked	LM	03/2026
Proj. Engr.		03/2026

No.	Revision Description	Engineer	Date



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Client Number: CLIENT/4
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Project ID: PROJECTID%#
Client Number: CLIENT%#

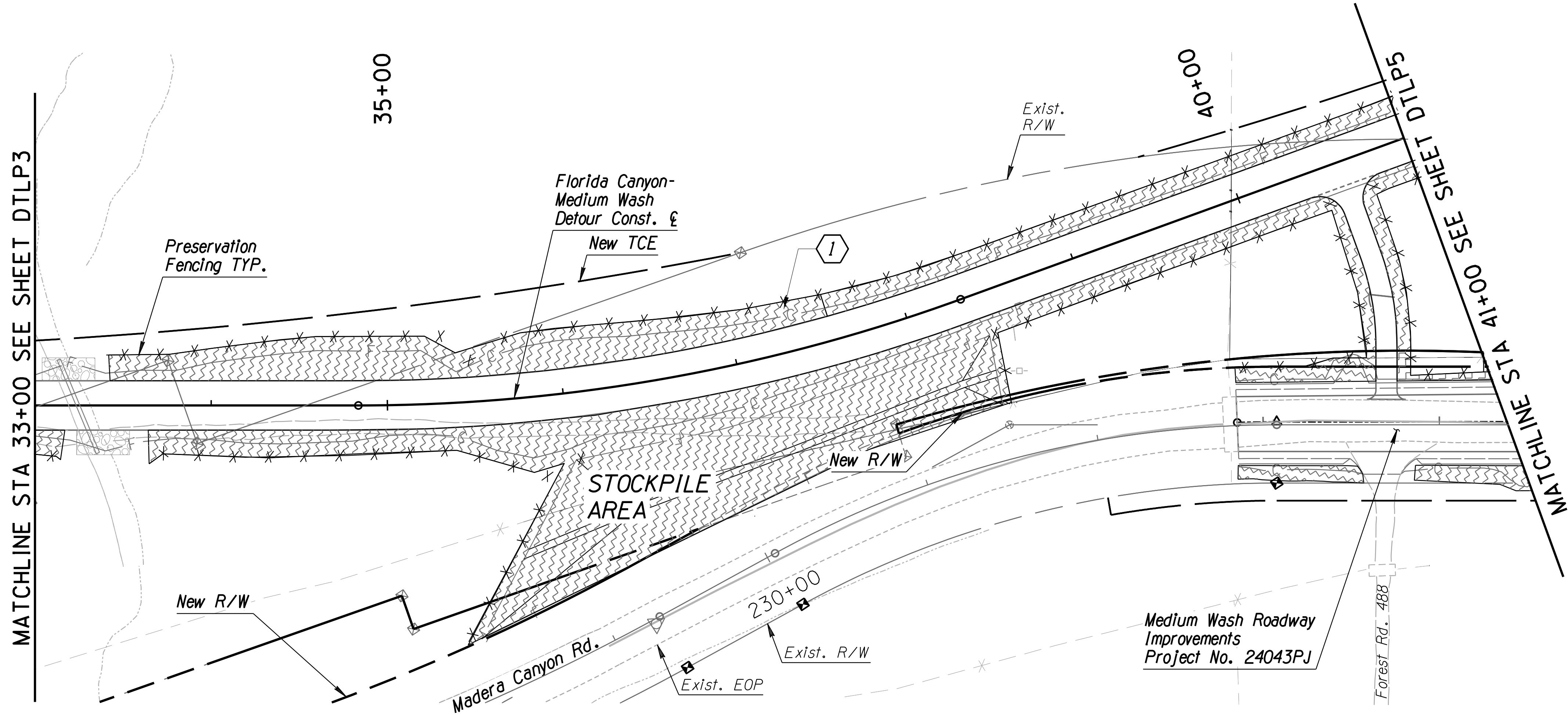
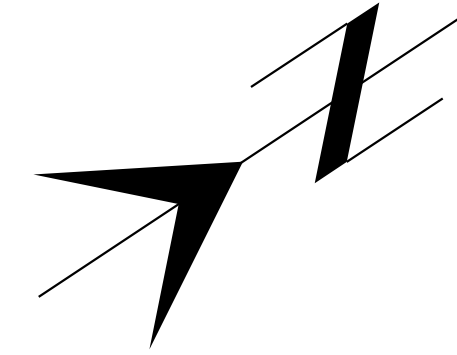
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Project # 24041PJ

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Client: MCDOT

Project: 24041PJ
Client: MCDOT

Project: 24041PJ
Client: MCDOT



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					



PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME
TRANSPLANTED	
	Transplanted Ocotillo
	Transplanted Cactus
EXISTING	
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations

SEED MIX CLASS II

SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE

SYMBOL	NAME
	Preservation Fencing

FLORIDA CANYON WASH-MEDIUM WASH
DETOUR LANDSCAPE MITIGATION PLAN
STA. 33+00 TO 41+00

Pima County Department of Transportation



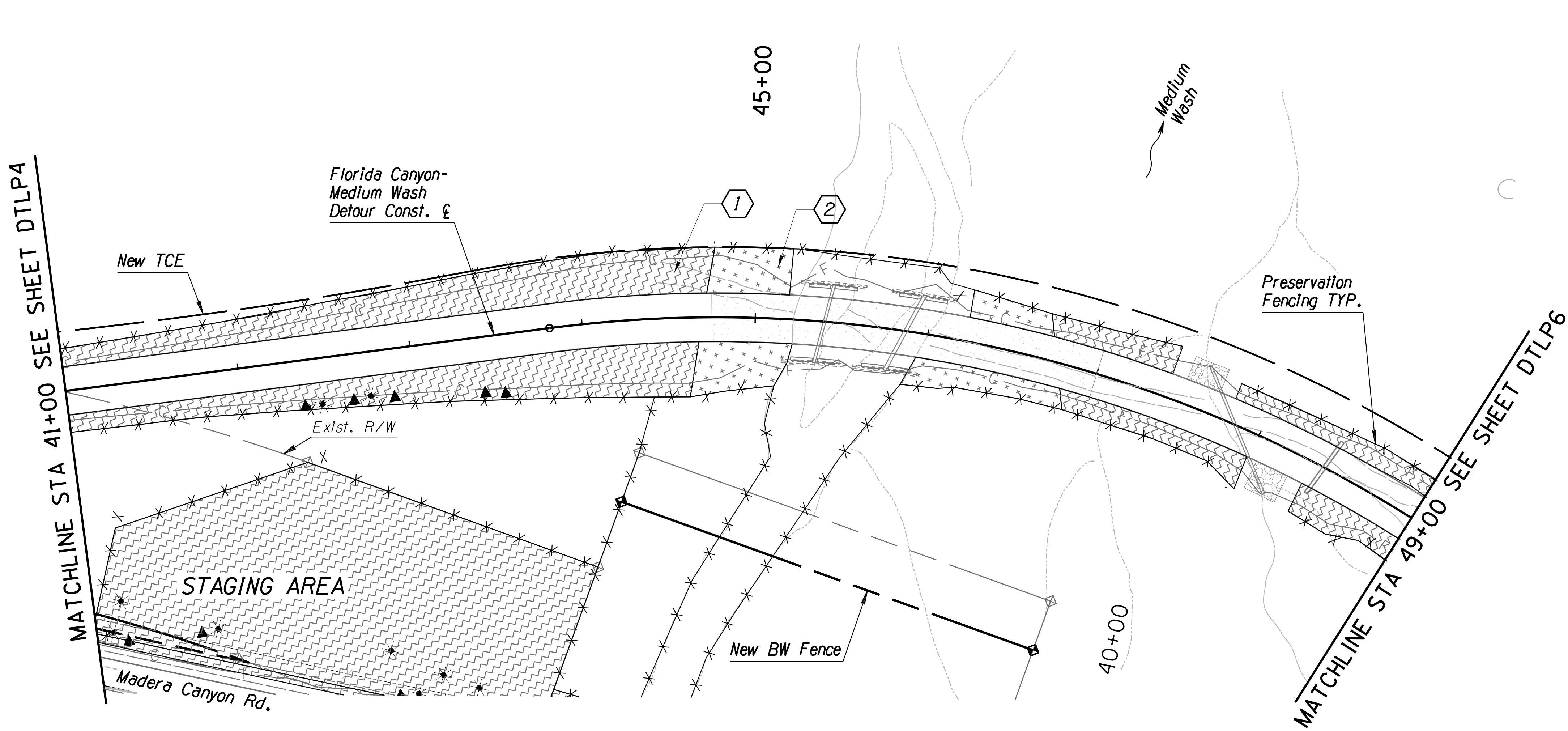
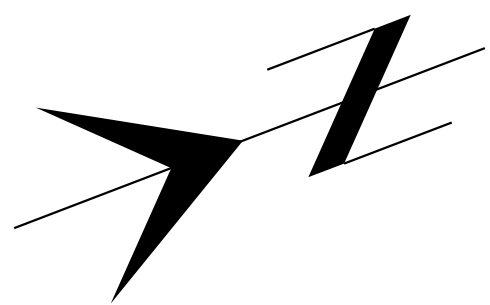
MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Kathryn Skinner, P.E., Director

No.	Revision	Description	Engineer	Date



Project: \\P\PROJECTS\24041PJ\Florida Canyon Wash Bridge Replacement\Drawings\DTLP5.dwg
Client: Pima County Department of Transportation



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					



PLANT MATERIALS SCHEDULE	
SYMBOL	COMMON NAME
TRANSPLANTED	
	Transplanted Ocotillo
	Transplanted Cactus
EXISTING	
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations

SEED MIX CLASS II		
SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE	
SYMBOL	NAME
	Preservation Fencing

FLORIDA CANYON WASH-MEDIUM WASH
DETOUR LANDSCAPE MITIGATION PLAN
STA. 41+00 TO 49+00

Pima County Department of Transportation

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	LM	
03/2026				
03/2026				

No.	Revision	Description	Engineer	Date

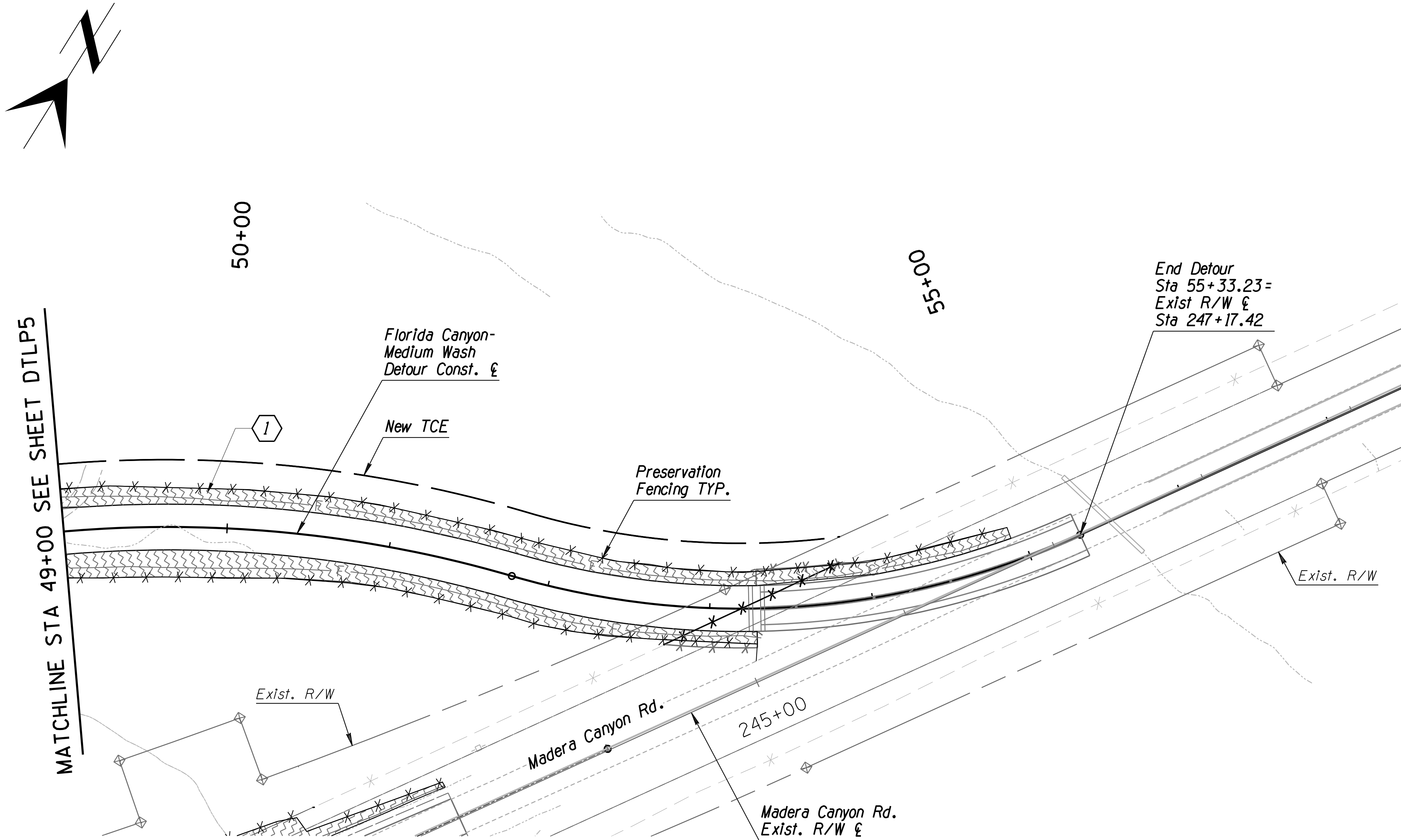


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Wash Bridge Replacement

Penetration: FULL.tbl
Florida: 24041PJ



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION
ARIZONA 811
Call 811 or click Arizona811.com

PLANT MATERIALS SCHEDULE

SYMBOL	COMMON NAME
TRANSPLANTED	
	Transplanted Ocotillo
	Transplanted Cactus
EXISTING	
	Preserve-in-Place Vegetation, Refer to NPI Sheets for locations

SEED MIX CLASS II

SYMBOL	HATCH	NAME
		Seeding (Class II) Desert Scrub
		Seeding (Class II) Xeroriparian

MATERIALS SCHEDULE

SYMBOL	NAME
	Preservation Fencing

FLORIDA CANYON WASH-MEDIUM WASH
LANDSCAPE MITIGATION DETOUR PLAN
STA. 49+00 TO 55+33.23

Pima County Department of Transportation



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ



No.	Revision	Description	Engineer	Date

Date	JM	JM	LM	Proj. Engr.
03/2026				
03/2026				
03/2026				

Kathryn Skinner, P.E., Director

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: \\P\PROJECT\ID\h
Client: Number\CLIENT\h
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NATIVE PLANT INVENTORY NOTES:

1. The Native Plant Inventory was conducted in conformance with the PCDOT Memorandum of July 2015 Update to Appendix 4D of the Environmentally Sensitive Roadway Design Guidelines, Pima County DOT Roadway Design Manual and Arizona State Land Department Native Plant Protocol Amended August 2020.
2. All protected native plants listed in the Update to Appendix 4D of the Environmentally Sensitive Roadway Design Guidelines (Pima County DOT Roadway Design Manual) and the Arizona State Land Department Native Plant Protocol Amended August 2020 within the project area (Right-of-Way to Right-of-Way and all easements) have been inventoried. All protected trees with a minimum caliper of three (3) inches (Acacias - eight (8) inches), or protected multiple trunk plants with a three (3) inch combined caliper measurement of the three (3) largest trunks were included in the native plant inventory. All caliper measurements were taken twenty-four (24) inches from ground level.
3. All inventoried plants were assigned a number, located and caliper/height documented. These plant numbers correspond to the numbers listed in the Native Plant Inventory provided to the Pima County Project Manager.
4. Proposed mitigation numbers of protected native plants is consistent with the standards and tables in the July 2015 Update to Appendix 4D of the Environmentally Sensitive Roadway Design Guidelines, Pima County DOT Roadway Design Manual.
5. In no case may native understory plants be removed, destroyed, or relocated from an existing stand of native plants which is to be preserved in place. The perimeter of the area preserved in place shall be designated in accordance with standards set forth in the Pima County Environmentally Sensitive Roadway Design Guidelines Native Plant Preservation, Salvage, and Mitigation, subsection B.7.c.11.
6. Protected native plants shall not be destroyed, mutilated, removed from the premises or relocated on the premises except in accordance with an approved Native Plant Preservation, Salvage and Mitigation plan and all Arizona Department of Agriculture and Horticulture requirements.

LANDSCAPE DEMOLITION NOTES:

1. Site shall be treated for buffelgrass and other invasive species prior to initiation of work. See Special Provisions 201-3.04, Bid Item 2010010.
2. Contractor is responsible for the preservation of existing plant materials according to Special Provisions Section 201-3.02. Overhanging branches within the right-of-way that may impact construction shall be pruned in accordance with Special Provisions Section 201-3.05.
3. Existing trees on adjacent property may have overhanging branches that will require pruning. See Special Provisions 201-3.05. No pruning shall be performed without the notification of Pima County Community Relations.
4. Where construction impacts existing landscape or irrigation encroachments within right-of-way, contractor shall coordinate required adjustments with Project Engineer and adjacent property owners. See also Special Provisions.
5. Contractor is to install Preservation Fencing as directed by Project Engineer prior to clearing. Locations shown on plans shall be adjusted in the field as required. Preservation Fencing is to remain during duration of project. See Item #2010004.
6. Removal of all cacti and native plants shall be in accordance with the provisions of the "Arizona Native Plant Law", A.R.S. Chapter 7. Cacti under the protection of native plant laws will have been removed prior to construction. If, during construction, additional saguaro or barrel cacti will be impacted, contractor is to contact PCDOT Project Manager or Pima County Plant Nursery Manager (520)-488-8022.

Plant Inventory Quantity Summary

BOTANICAL NAME	QTY	TR	RFS	PIP
Agave species	2	2	0	0
Acacia greggii Catclaw Acacia	119	0	38	81
Celtis reticulata Desert Hackberry	50	0	14	36
Ferocactus wislizeni Fishhook Barrel	13	1	0	12
Fouquieria splendens Ocotillo	172	49	0	107
Parkinsonia florida Blue Palo Verde	16	0	7	9
Prosopis velutina Velvet Mesquite	878	0	270	607

TR = Transplant
RFS = Remove from Site
PIP = Preserve in Place

NPI Symbols

Symbol	Description
⊗	RFS
⊕	PIP
⊕	TR

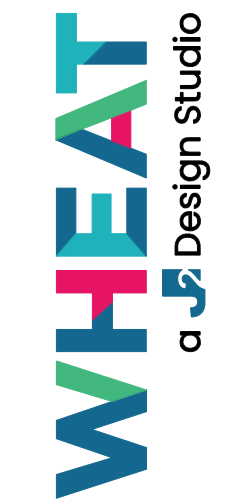
Symbol	Description
☁	Preserve-in-Place Vegetation

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					
Contact Arizona 811 at least two full working days before you begin excavation ARIZONA 811 Call 811 or click Arizona811.com					

Kathryn Skinner, P.E., Director

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	

No.	Revision	Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

NATIVE PLANT INVENTORY SUMMARY

Project: \\P\PROJECT\ID\h
Client: Number\CLIENT\h
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Plot\Draw\02-pdf.ctb

ENVIRONMENTALLY SENSITIVE ROADWAY CALCULATIONS

Native Plant Mitigation Calculations								
Calculations are in conformance with the PCDOT Memorandum of July 2015 - Update to Appendix 4D of the Environmentally Sensitive Roadway Design Guidelines, Pima County DOT Roadway Design Manual.								
Disturbed Area (acres)	5.1							
Plantable Area (acres)	4.04							
ESR Multiplier (Plantable Area/Disturbed Area)	79.2%							
Replacement Diameter: (total diameter) * 125% * ESR Multiplier								
	Total Diameter	Replacement Diameter						
Whitethorn Acacia	0	0.0						
<i>Acacia constricta</i>		(0 * 125% * 79.2%)						
Catclaw Acacia	1138	1126.8						
<i>Acacia greggii</i>		(1138 * 125% * 79.2%)						
Desert Hackberry	341	337.7						
<i>Celtis reticulata</i>		(341 * 125% * 79.2%)						
Chilopsis linearis	0	0.0						
<i>Desert Willow</i>		(0 * 125% * 79.2%)						
Ironwood	0	0.0						
<i>Olneya tesota</i>		(0 * 125% * 79.2%)						
Blue Palo Verde	114	112.9						
<i>Parkinsonia floridum</i>		(114 * 125% * 79.2%)						
Foothills Palo Verde	0	0.0						
<i>Parkinsonia microphyllum</i>		(0 * 125% * 79.2%)						
Velvet Mesquite	8316	8234.5						
<i>Prosopis velutina</i>		(8316 * 125% * 79.2%)						
TOTAL	9909	9474.2						
Distribution of Tree Sizes								
Scientific Name	Size Range (inches)	No. of Trees	Percentage as Total No. of Trees	Replacement Diameter per Size Range (inches)	Replacement Container Size	Diameter per Container (inches)	Diameter per Container (inches)	No. of Trees per Container*
<i>Acacia greggii</i>	>12	22	# trees / # trees = 18.49%	208.3	48 inch box	6	0.9/6 = 34.7	35
	8-11.9	95	# trees / # trees = 79.83%	899.6	36 inch box	4	6.8/4 = 224.9	225
	6-7.9	2	# trees / # trees = 1.68%	18.9	24 inch box	2.5	0.9/2.5 = 7.6	8
	<6	0	# trees / # trees = 0.00%	0.0	15 gallon container	1	0.0/1 = 0.0	0
<i>Celtis reticulata</i>	>12	6	# trees / # trees = 12.00%	40.5	48 inch box	6	1.5/6 = 6.8	7
	8-11.9	10	# trees / # trees = 20.00%	67.5	36 inch box	4	0.0/4 = 16.9	17
	6-7.9	11	# trees / # trees = 22.00%	74.3	24 inch box	2.5	0.0/2.5 = 29.7	30
	<6	23	# trees / # trees = 46.00%	155.3	15 gallon container	1	0.0/1 = 155.3	155
<i>Parkinsonia floridum</i>	>12	2	# trees / # trees = 12.50%	14.1	48 inch box	6	12.2/6 = 2.4	2
	8-11.9	4	# trees / # trees = 25.00%	28.2	36 inch box	4	5.6/4 = 7.1	7
	6-7.9	5	# trees / # trees = 31.25%	35.3	24 inch box	2.5	2.2/2.5 = 14.1	14
	<6	5	# trees / # trees = 31.25%	35.3	15 gallon container	1	7.8/1 = 35.3	35
<i>Prosopis velutina</i>	>12	234	# trees / # trees = 26.29%	2165.0	48 inch box	6	6.7/6 = 360.8	361
	8-11.9	245	# trees / # trees = 27.53%	2266.8	36 inch box	4	10.4/4 = 566.7	567
	6-7.9	69	# trees / # trees = 7.75%	638.4	24 inch box	2.5	7.4/2.5 = 255.4	255
	<6	342	# trees / # trees = 38.43%	3164.3	15 gallon container	1	20.8/1 = 3164.3	3164

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
711	Parkinsonia florida	7	10	PF	TREE_PIP
712	Prosopis velutina	10	15	PV	TREE_PIP
713	Prosopis velutina	4	10	PV	TREE_PIP
714	Prosopis velutina	5	8	PV	TREE_RFS
715	ZZ Non Native	0	0	CY	CACT_RFS
716	ZZ Non Native	0	0	CY	CACT_PIP
717	ZZ Non Native	0	0	CY	CACT_PIP
718	Prosopis velutina	5	8	PV	TREE_PIP
719	Prosopis velutina	5	8	PV	TREE_PIP
720	Ferocactus wislizeni	0	1	FW	CACT_PIP
721	ZZ Non Native	0	0	CY	CACT_PIP
722	Prosopis velutina	7	9	PV	TREE_PIP
723	Ferocactus wislizeni	0	3	FW	CACT_PIP
724	Prosopis velutina	4	6	PV	TREE_RFS
725	Prosopis velutina	6	10	PV	TREE_RFS
726	Prosopis velutina	5	8	PV	TREE_PIP
727	Prosopis velutina	3	7	PV	TREE_PIP
728	ZZ Non Native	0	0	CY	CACT_PIP
729	Ferocactus wislizeni	0	1	FW	CACT_PIP
730	Prosopis velutina	6	8	PV	TREE_PIP
731	Prosopis velutina	4	7	PV	TREE_PIP
732	Prosopis velutina	3	6	PV	TREE_RFS
733	Prosopis velutina	5	8	PV	TREE_RFS
734	Prosopis velutina	3	6	PV	TREE_RFS
735	Prosopis velutina	4	7	PV	TREE_PIP
736	ZZ Non Native	0	0	CY	CACT_PIP
737	Prosopis velutina	3	5	PV	TREE_PIP
738	Prosopis velutina	4	6	PV	TREE_RFS
739	Prosopis velutina	3	6	PV	TREE_PIP
740	ZZ Non Native	0	0	CY	CACT_PIP
741	Prosopis velutina	5	8	PV	TREE_RFS
742	Prosopis velutina	12	12	PV	TREE_RFS
743	ZZ Non Native	0	0	CY	CACT_RFS
744	ZZ Non Native	0	0	CY	CACT_PIP
745	ZZ Non Native	0	0	CY	CACT_PIP
746	Prosopis velutina	4	7	PV	TREE_PIP
747	ZZ Non Native	0	0	CY	CACT_PIP
748	Prosopis velutina	4	6	PV	TREE_PIP
749	Fouquieria splendens	0	5	FS	CACT_PIP
750	Fouquieria splendens	0	7	FS	CACT_SAL
751	Fouquieria splendens	0	7	FS	CACT_SAL
752	Fouquieria splendens	0	6	FS	CACT_SAL
753	ZZ Non Native	0	0	CY	CACT_RFS
754	ZZ Non Native	0	0	CY	CACT_RFS
755	Fouquieria splendens	0	1	FS	CACT_SAL
756	Fouquieria splendens	0	1	FS	CACT_SAL
757	ZZ Non Native	0	0	CY	CACT_RFS
758	Fouquieria splendens	0	20	FS	CACT_SAL
759	ZZ Non Native	0	0	CY	CACT_RFS
760	ZZ Non Native	0	0	CY	CACT_RFS
761	ZZ Non Native	0	0	CY	CACT_PIP
762	Fouquieria splendens	0	10	FS	CACT_SAL
763	Fouquieria splendens	0	10	FS	CACT_SAL
764	Fouquieria splendens	0	8	FS	CACT_SAL
765	Prosopis velutina	3	7	PV	TREE_PIP
766	Prosopis velutina	3	7	PV	TREE_PIP
767	Prosopis velutina	4	6	PV	TREE_RFS
768	Prosopis velutina	4	7	PV	TREE_RFS
769	Prosopis velutina	8	12	PV	TREE_RFS
770	Prosopis velutina	6	7	PV	TREE_RFS
771	ZZ Non Native	0	0	CY	CACT_RFS
772	Prosopis velutina	11	9	PV	TREE_PIP
773	Prosopis velutina	4	7	PV	TREE_PIP
774	ZZ Non Native	0	0	CY	CACT_PIP
775	Parkinsonia florida	7	8	PF	TREE_RFS
776	Prosopis velutina	10	12	PV	TREE_RFS
777	Prosopis velutina	5	10	PV	TREE_RFS
778	ZZ Non Native	0	0	CY	CACT_RFS
779	Prosopis velutina	15	9	PV	TREE_RFS
780	Parkinsonia florida	3	7	PF	TREE_PIP
781	Parkinsonia florida	3	7	PF	TREE_PIP
782	Prosopis velutina	10	15	PV	TREE_PIP
783	Prosopis velutina	6	8	PV	TREE_PIP
784	Prosopis velutina	6	8	PV	TREE_RFS
785	Prosopis velutina	10	12	PV	TREE_PIP
786	Prosopis velutina	3	6	PV	TREE_PIP
787	Parkinsonia florida	7	11	PF	TREE_PIP
788	Prosopis velutina	3	10	PV	TREE_RFS
789	Prosopis velutina	10	10	PV	TREE_RFS
790	Prosopis velutina	8	12	PV	TREE_RFS
791	Parkinsonia florida	3	6	PF	TREE_RFS
792	Prosopis velutina	12	15	PV	TREE_RFS
793	Prosopis velutina	10	12	PV	TREE_RFS
794	Prosopis velutina	5	7	PV	TREE_PIP
795	Prosopis velutina	6	8	PV	TREE_PIP
796	ZZ Non Native	0	0	CY	CACT_RFS
797	Parkinsonia florida	6	11	PF	TREE_RFS
798	Prosopis velutina	7	12	PV	TREE_PIP
799	Prosopis velutina	9	11	PV	TREE_RFS

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
800	Prosopis velutina	4	10	PV	TREE_PIP
801	Prosopis velutina	7	12	PV	TREE_PIP
802	Prosopis velutina	25	30	PV	TREE_PIP
803	Prosopis velutina	8	10	PV	TREE_PIP
804	Prosopis velutina	9	11	PV	TREE_PIP
805	Prosopis velutina	8	13	PV	TREE_PIP
806	Prosopis velutina	9	15	PV	TREE_PIP
807	Prosopis velutina	10	14	PV	TREE_PIP
808	Prosopis velutina	15	18	PV	TREE_PIP
809	Prosopis velutina	8	14	PV	TREE_PIP
810	ZZ Non Native	0	0	CY	CACT_PIP
811	ZZ Non Native	0	0	CY	CACT_PIP
812	Prosopis velutina	10	12	PV	TREE_PIP
813	Prosopis velutina	8	10	PV	TREE_PIP
814	ZZ Non Native	0	0	CY	CACT_PIP
815	Prosopis velutina	11	14	PV	TREE_PIP
816	ZZ Non Native	0	0	CY	CACT_PIP
817	Prosopis velutina	10	16	PV	TREE_RFS
818	Prosopis velutina	9	15	PV	TREE_RFS
819	Parkinsonia florida	11	12	PF	TREE_RFS
820	Prosopis velutina	8	10	PV	TREE_RFS
821	ZZ Non Native	0	0	CY	CACT_RFS
822	Prosopis velutina	5	9	PV	TREE_RFS
823	Fouquieria splendens	0	6	FS	CACT_PIP
824	Parkinsonia florida	5	7	PF	TREE_PIP
825	Prosopis velutina	5	8	PV	TREE_PIP
826	Prosopis velutina	6	8	PV	TREE_RFS
827	Prosopis velutina	4	9	PV	TREE_RFS
828	Prosopis velutina	5	6	PV	TREE_PIP
829	Prosopis velutina	4	6	PV	TREE_PIP
830	Prosopis velutina	4	7	PV	TREE_PIP
831	Ferocactus wislizeni	0	2	FW	CACT_PIP
832	Ferocactus wislizeni	0	1	FW	CACT_PIP
833	ZZ Non Native	0	0	CY	CACT_RFS
834	ZZ Non Native	0	0	CY	CACT_RFS
835	ZZ Non Native	0	0	CY	CACT_RFS
836	Prosopis velutina	3	6	PV	TREE_RFS
837	Prosopis velutina	12	6	PV	TREE_RFS
838	Prosopis velutina	9	15	PV	TREE_RFS
839	Prosopis velutina	11	15	PV	TREE_RFS
840	Prosopis velutina	6	8	PV	TREE_RFS
841	Prosopis velutina	6	7	PV	TREE_RFS
842	Prosopis velutina	3	6	PV	TREE_RFS
843	Prosopis velutina	5	9	PV	TREE_RFS
844	Prosopis velutina	8	12	PV	TREE_RFS
845	Fouquieria splendens	0	9	FS	CACT_RFS
846	Prosopis velutina	8	10	PV	TREE_PIP
847	Prosopis velutina	5	9	PV	TREE_PIP
848	ZZ Non Native	0	0	CY	CACT_PIP
849	ZZ Non Native	0	0	CY	CACT_PIP
850	ZZ Non Native	0	0	CY	CACT_PIP
851	ZZ Non Native	0	0	CY	CACT_PIP
852	ZZ Non Native	0	0	CY	CACT_PIP
853	Fouquieria splendens	0	3	FS	CACT_RFS
854	Prosopis velutina	10	12	PV	TREE_PIP
855	Prosopis velutina	12	20	PV	TREE_PIP
856	Prosopis velutina	3	6	PV	TREE_PIP
857	Prosopis velutina	5	7	PV	TREE_PIP
858	Prosopis velutina	6	9	PV	TREE_PIP
859	Prosopis velutina	3	6	PV	TREE_PIP
860	Prosopis velutina	3	6	PV	TREE_PIP
861	Prosopis velutina	3	6	PV	TREE_PIP
862	Prosopis velutina	3	6	PV	TREE_PIP
863	Prosopis velutina	5	8	PV	TREE_PIP
864	Prosopis velutina	4	7	PV	TREE_PIP
865	Prosopis velutina	7	8	PV	TREE_PIP
866	Prosopis velutina	5	7	PV	TREE_PIP
867	Prosopis velutina	5	8	PV	TREE_PIP
868	Prosopis velutina	3	6	PV	TREE_PIP
869	Prosopis velutina	3	6	PV	TREE_PIP
870	Prosopis velutina	3	6	PV	TREE_PIP
871	Prosopis velutina	7	12	PV	TREE_PIP
872	Prosopis velutina	14	25	PV	TREE_PIP
873	Prosopis velutina	6	10	PV	TREE_PIP
874	Prosopis velutina	18	25	PV	TREE_PIP
875	Prosopis velutina	4	10	PV	TREE_PIP
876	Prosopis velutina	6	12	PV	TREE_PIP
877	Prosopis velutina	8	16	PV	TREE_PIP
878	Prosopis velutina	10	15	PV	TREE_PIP
879	Prosopis velutina	3	7	PV	TREE_PIP
880	Prosopis velutina	4	10	PV	TREE_PIP
881	Prosopis velutina	4	7	PV	TREE_PIP
882	Prosopis velutina	3	7	PV	TREE_PIP
883	Prosopis velutina	3	7	PV	TREE_PIP
884	Prosopis velutina	3	6	PV	TREE_PIP
885	Prosopis velutina	9	12	PV	TREE_PIP
886	ZZ Non Native	0	0	CY	CACT_PIP
887	Prosopis velutina	21	22	PV	TREE_PIP
888	Prosopis velutina	9	12	PV	TREE_PIP
889	Prosopis velutina	10	14	PV	TREE_PIP
890	Prosopis velutina	4	8	PV	TREE_PIP
891	Prosopis velutina	4	8	PV	TREE_PIP
892	Prosopis velutina	7	12	PV	TREE_PIP
893	Prosopis velutina	10	25	PV	TREE_PIP
894	Prosopis velutina	4	6	PV	TREE_PIP
895	Prosopis velutina	36	30	PV	TREE_PIP
896	Prosopis velutina	18	7	PV	TREE_PIP
897	Prosopis velutina	15	20	PV	TREE_PIP
898	Prosopis velutina	10	18	PV	TREE_PIP
899	Prosopis velutina	8	7	PV	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
900	Prosopis velutina	12	15	PV	TREE_PIP
901	Prosopis velutina	18	15	PV	TREE_PIP
902	Prosopis velutina	6	7	PV	TREE_PIP
903	Prosopis velutina	6	8	PV	TREE_PIP
904	Prosopis velutina	5	7	PV	TREE_PIP
905	Prosopis velutina	3	8	PV	TREE_PIP
906	Prosopis velutina	4	8	PV	TREE_PIP
907	Prosopis velutina	3	8	PV	TREE_PIP
908	Prosopis velutina	22	25	PV	TREE_PIP
909	Celtis reticulata	7	18	CR	TREE_PIP
910	Prosopis velutina	7	18	PV	TREE_PIP
911	Prosopis velutina	7	12	PV	TREE_PIP
912	Acacia greggii	14	15	AG	TREE_PIP
913	Prosopis velutina	3	12	PV	TREE_PIP
914	Prosopis velutina	7	10	PV	TREE_PIP
915	Prosopis velutina	3	8	PV	TREE_PIP
916	Prosopis velutina	12	18	PV	TREE_PIP
917	Prosopis velutina	10	15	PV	TREE_PIP
918	Prosopis velutina	4	12	PV	TREE_PIP
919	Prosopis velutina	13	18	PV	TREE_PIP
920	Prosopis velutina	4	10	PV	TREE_PIP
921	Prosopis velutina	9	10	PV	TREE_PIP
922	Prosopis velutina	7	10	PV	TREE_PIP
923	ZZ Non Native	0	0	CY	CACT_PIP
924	Parkinsonia florida	9	10	PF	TREE_PIP
925	Prosopis velutina	9	15	PV	TREE_RFS
926	Prosopis velutina	9	13	PV	TREE_RFS
927	Prosopis velutina	18	15	PV	TREE_RFS
928	Prosopis velutina	18	15	PV	TREE_PIP
929	Parkinsonia florida	10	10	PF	TREE_RFS
930	Prosopis velutina	14	15	PV	TREE_PIP
931	Parkinsonia florida	8	15	PF	TREE_PIP
932	Parkinsonia florida	8	13	PF	TREE_PIP
933	Prosopis velutina	9	11	PV	TREE_PIP
934	Prosopis velutina	8	11	PV	TREE_PIP
935	Prosopis velutina	12	10	PV	TREE_PIP
936	ZZ Non Native	0	0	CY	CACT_PIP
937	Prosopis velutina	3	7	PV	TREE_PIP
938	ZZ Non Native	0	0	CY	CACT_PIP
939	Prosopis velutina	3	9	PV	TREE_PIP
940	Prosopis velutina	4	8	PV	TREE_PIP
941	Prosopis velutina	3	7	PV	TREE_PIP
942	Prosopis velutina	10	14	PV	TREE_PIP
943	Parkinsonia florida	5	6	PF	TREE_PIP
944	Prosopis velutina	14	18	PV	TREE_PIP
945	ZZ Non Native	0	0	CY	CACT_PIP
946	ZZ Non Native	0	0	CY	CACT_PIP
947	Prosopis velutina	5	7	PV	TREE_RFS
948	ZZ Non Native	0	0	CY	CACT_RFS
949	Prosopis velutina	9	13	PV	TREE_RFS
950	Parkinsonia florida	15	10	PF	TREE_RFS
951	Prosopis velutina	12	18	PV	TREE_PIP
952	Prosopis velutina	10	14	PV	TREE_RFS
953	Prosopis velutina	9	12	PV	TREE_PIP
954	Prosopis velutina	14	10	PV	T

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1100	Prosopis velutina	9	10	PV	TREE_RFS
1101	Prosopis velutina	9	12	PV	TREE_RFS
1102	Prosopis velutina	8	10	PV	TREE_RFS
1103	Prosopis velutina	18	20	PV	TREE_RFS
1104	Prosopis velutina	14	25	PV	TREE_RFS
1105	Prosopis velutina	24	20	PV	TREE_RFS
1106	Prosopis velutina	5	10	PV	TREE_PIP
1107	Prosopis velutina	6	10	PV	TREE_RFS
1108	Prosopis velutina	6	10	PV	TREE_RFS
1109	Prosopis velutina	22	25	PV	TREE_RFS
1110	Prosopis velutina	20	22	PV	TREE_RFS
1111	Prosopis velutina	6	6	PV	TREE_RFS
1112	Prosopis velutina	12	18	PV	TREE_RFS
1113	Prosopis velutina	25	25	PV	TREE_RFS
1114	Prosopis velutina	4	10	PV	TREE_RFS
1115	Prosopis velutina	9	12	PV	TREE_RFS
1116	Prosopis velutina	26	30	PV	TREE_RFS
1117	Acacia greggii	9	10	AG	TREE_RFS
1118	Prosopis velutina	28	25	PV	TREE_PIP
1119	Prosopis velutina	16	20	PV	TREE_PIP
1120	Prosopis velutina	6	10	PV	TREE_PIP
1121	Prosopis velutina	11	15	PV	TREE_PIP
1122	Prosopis velutina	20	18	PV	TREE_PIP
1123	Prosopis velutina	22	20	PV	TREE_PIP
1124	Prosopis velutina	8	12	PV	TREE_PIP
1125	Acacia greggii	9	14	AG	TREE_PIP
1126	Prosopis velutina	12	15	PV	TREE_PIP
1127	Prosopis velutina	10	18	PV	TREE_PIP
1128	Prosopis velutina	26	22	PV	TREE_PIP
1129	Prosopis velutina	28	22	PV	TREE_PIP
1130	Prosopis velutina	9	15	PV	TREE_PIP
1131	Prosopis velutina	7	12	PV	TREE_PIP
1132	Prosopis velutina	5	12	PV	TREE_PIP
1133	Acacia greggii	8	8	AG	TREE_PIP
1134	Prosopis velutina	5	88	PV	TREE_PIP
1135	Prosopis velutina	16	25	PV	TREE_PIP
1136	Prosopis velutina	14	25	PV	TREE_PIP
1137	Acacia greggii	10	15	AG	TREE_PIP
1138	Acacia greggii	8	10	AG	TREE_PIP
1139	Prosopis velutina	7	12	PV	TREE_PIP
1140	Prosopis velutina	5	12	PV	TREE_PIP
1141	Prosopis velutina	7	12	PV	TREE_PIP
1142	Prosopis velutina	20	20	PV	TREE_PIP
1143	Prosopis velutina	12	15	PV	TREE_PIP
1144	Prosopis velutina	6	8	PV	TREE_PIP
1145	Prosopis velutina	4	8	PV	TREE_PIP
1146	Prosopis velutina	16	20	PV	TREE_PIP
1147	Prosopis velutina	6	10	PV	TREE_PIP
1148	Prosopis velutina	16	20	PV	TREE_PIP
1149	Prosopis velutina	7	8	PV	TREE_PIP
1150	Prosopis velutina	10	20	PV	TREE_PIP
1151	Prosopis velutina	18	25	PV	TREE_PIP
1152	Prosopis velutina	10	15	PV	TREE_PIP
1153	Acacia greggii	8	8	AG	TREE_PIP
1154	Prosopis velutina	9	12	PV	TREE_PIP
1155	Prosopis velutina	7	15	PV	TREE_PIP
1156	Prosopis velutina	6	8	PV	TREE_PIP
1157	Acacia greggii	8	10	AG	TREE_PIP
1158	Prosopis velutina	7	10	PV	TREE_PIP
1159	Acacia greggii	8	12	AG	TREE_PIP
1160	Acacia greggii	10	10	AG	TREE_PIP
1161	Prosopis velutina	9	12	PV	TREE_PIP
1162	Prosopis velutina	20	25	PV	TREE_PIP
1163	Prosopis velutina	9	15	PV	TREE_PIP
1164	Acacia greggii	8	10	AG	TREE_PIP
1165	Prosopis velutina	9	15	PV	TREE_PIP
1166	Prosopis velutina	4	10	PV	TREE_PIP
1167	Prosopis velutina	5	12	PV	TREE_PIP
1168	Prosopis velutina	8	12	PV	TREE_PIP
1169	Prosopis velutina	15	18	PV	TREE_PIP
1170	Prosopis velutina	6	10	PV	TREE_PIP
1171	Prosopis velutina	14	20	PV	TREE_PIP
1172	Prosopis velutina	3	8	PV	TREE_PIP
1173	Prosopis velutina	8	15	PV	TREE_PIP
1174	Prosopis velutina	4	12	PV	TREE_PIP
1175	Prosopis velutina	3	6	PV	TREE_PIP
1176	Prosopis velutina	6	15	PV	TREE_PIP
1177	Prosopis velutina	5	14	PV	TREE_PIP
1178	Prosopis velutina	18	22	PV	TREE_PIP
1179	Prosopis velutina	14	20	PV	TREE_RFS
1180	Prosopis velutina	14	20	PV	TREE_PIP
1181	Prosopis velutina	12	15	PV	TREE_PIP
1182	Prosopis velutina	3	8	PV	TREE_RFS
1183	Prosopis velutina	11	20	PV	TREE_RFS
1184	Prosopis velutina	12	15	PV	TREE_PIP
1185	Prosopis velutina	10	15	PV	TREE_PIP
1186	Prosopis velutina	9	20	PV	TREE_PIP
1187	Prosopis velutina	6	12	PV	TREE_PIP
1188	Prosopis velutina	6	10	PV	TREE_PIP
1189	Prosopis velutina	4	8	PV	TREE_PIP
1190	Prosopis velutina	7	10	PV	TREE_PIP
1191	Prosopis velutina	12	16	PV	TREE_PIP
1192	Prosopis velutina	6	8	PV	TREE_PIP
1193	Acacia greggii	8	9	AG	TREE_PIP
1194	Prosopis velutina	4	10	PV	TREE_PIP
1195	Acacia greggii	9	10	AG	TREE_PIP
1196	Prosopis velutina	12	15	PV	TREE_PIP
1197	Prosopis velutina	9	12	PV	TREE_RFS
1198	Prosopis velutina	10	12	PV	TREE_PIP
1199	Acacia greggii	8	10	AG	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1200	Celtis reticulata	5	15	CR	TREE_RFS
1201	Prosopis velutina	8	12	PV	TREE_RFS
1202	Acacia greggii	10	14	AG	TREE_RFS
1203	Prosopis velutina	7	12	PV	TREE_RFS
1204	Acacia greggii	8	10	AG	TREE_RFS
1205	Acacia greggii	10	12	AG	TREE_RFS
1206	Prosopis velutina	12	20	PV	TREE_RFS
1207	Prosopis velutina	18	25	PV	TREE_RFS
1208	Prosopis velutina	18	15	PV	TREE_RFS
1209	Acacia greggii	8	15	AG	TREE_RFS
1210	Prosopis velutina	5	12	PV	TREE_RFS
1211	Prosopis velutina	24	25	PV	TREE_RFS
1212	Prosopis velutina	20	20	PV	TREE_RFS
1213	Prosopis velutina	18	22	PV	TREE_RFS
1214	Prosopis velutina	18	22	PV	TREE_RFS
1215	Prosopis velutina	26	20	PV	TREE_RFS
1216	Prosopis velutina	26	16	PV	TREE_PIP
1217	Prosopis velutina	24	18	PV	TREE_PIP
1218	Prosopis velutina	12	15	PV	TREE_PIP
1219	Prosopis velutina	7	11	PV	TREE_PIP
1220	Prosopis velutina	10	18	PV	TREE_PIP
1221	Prosopis velutina	3	8	PV	TREE_PIP
1222	Prosopis velutina	7	9	PV	TREE_PIP
1223	Prosopis velutina	28	22	PV	TREE_PIP
1224	Prosopis velutina	5	10	PV	TREE_PIP
1225	ZZ Non Native	0	0	CY	CACT_PIP
1226	Acacia greggii	20	10	AG	TREE_PIP
1227	Prosopis velutina	11	14	PV	TREE_PIP
1228	Prosopis velutina	20	15	PV	TREE_PIP
1229	Prosopis velutina	16	15	PV	TREE_PIP
1230	Acacia greggii	8	12	AG	TREE_PIP
1231	Prosopis velutina	22	17	PV	TREE_PIP
1232	Prosopis velutina	12	12	PV	TREE_PIP
1233	Acacia greggii	14	9	AG	TREE_PIP
1234	ZZ Non Native	0	0	CY	CACT_PIP
1235	Prosopis velutina	7	14	PV	TREE_PIP
1236	Acacia greggii	9	9	AG	TREE_PIP
1237	Prosopis velutina	18	16	PV	TREE_PIP
1238	ZZ Non Native	0	0	CY	CACT_PIP
1239	ZZ Non Native	0	0	CY	CACT_PIP
1240	Prosopis velutina	7	12	PV	TREE_PIP
1241	Prosopis velutina	4	7	PV	TREE_PIP
1242	Prosopis velutina	11	18	PV	TREE_RFS
1243	Prosopis velutina	3	7	PV	TREE_PIP
1244	Prosopis velutina	15	15	PV	TREE_PIP
1245	ZZ Non Native	0	0	CY	CACT_PIP
1246	Acacia greggii	8	8	AG	TREE_PIP
1247	Prosopis velutina	16	22	PV	TREE_PIP
1248	Prosopis velutina	8	12	PV	TREE_PIP
1249	ZZ Non Native	0	0	CY	CACT_PIP
1250	ZZ Non Native	0	0	CY	CACT_PIP
1251	Celtis reticulata	6	14	CR	TREE_RFS
1252	Acacia greggii	13	14	AG	TREE_PIP
1253	Celtis reticulata	4	9	CR	TREE_PIP
1254	Prosopis velutina	5	17	PV	TREE_RFS
1255	Prosopis velutina	9	16	PV	TREE_RFS
1256	Prosopis velutina	8	14	PV	TREE_PIP
1257	Prosopis velutina	22	22	PV	TREE_PIP
1258	Prosopis velutina	28	20	PV	TREE_PIP
1259	Prosopis velutina	6	8	PV	TREE_PIP
1260	ZZ Non Native	0	0	CY	CACT_RFS
1261	Prosopis velutina	7	11	PV	TREE_RFS
1262	Prosopis velutina	6	8	PV	TREE_RFS
1263	Prosopis velutina	13	20	PV	TREE_RFS
1264	Prosopis velutina	5	10	PV	TREE_RFS
1265	Prosopis velutina	5	9	PV	TREE_RFS
1266	Prosopis velutina	5	8	PV	TREE_RFS
1267	Prosopis velutina	6	9	PV	TREE_RFS
1268	Prosopis velutina	6	9	PV	TREE_RFS
1269	Prosopis velutina	8	14	PV	TREE_RFS
1270	Prosopis velutina	7	12	PV	TREE_RFS
1271	Prosopis velutina	6	9	PV	TREE_RFS
1272	ZZ Non Native	0	0	CY	CACT_RFS
1273	Acacia greggii	8	9	AG	TREE_RFS
1274	Acacia greggii	8	8	AG	TREE_RFS
1275	Acacia greggii	8	9	AG	TREE_RFS
1276	Prosopis velutina	3	7	PV	TREE_RFS
1277	Prosopis velutina	3	8	PV	TREE_RFS
1278	Prosopis velutina	3	8	PV	TREE_RFS
1279	Prosopis velutina	10	9	PV	TREE_RFS
1280	Prosopis velutina	7	8	PV	TREE_RFS
1281	Prosopis velutina	7	8	PV	TREE_RFS
1282	Prosopis velutina	13	9	PV	TREE_PIP
1283	Prosopis velutina	9	11	PV	TREE_PIP
1284	Prosopis velutina	9	9	PV	TREE_PIP
1285	Prosopis velutina	11	12	PV	TREE_PIP
1286	Prosopis velutina	9	12	PV	TREE_PIP
1287	Prosopis velutina	9	10	PV	TREE_PIP
1288	Prosopis velutina	10	13	PV	TREE_PIP
1289	Prosopis velutina	11	9	PV	TREE_PIP
1290	Prosopis velutina	16	12	PV	TREE_PIP
1291	Prosopis velutina	9	10	PV	TREE_PIP
1292	Prosopis velutina	6	9	PV	TREE_PIP
1293	Acacia greggii	8	8	AG	TREE_PIP
1294	Prosopis velutina	5	7	PV	TREE_PIP
1295	Prosopis velutina	9	9	PV	TREE_PIP
1296	Prosopis velutina	12	11	PV	TREE_PIP
1297	ZZ Non Native	0	0	CY	CACT_RFS
1298	Acacia greggii	12	14	AG	TREE_PIP
1299	ZZ Non Native	0	0	CY	CACT_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1300	Prosopis velutina	12	16	PV	TREE_PIP
1301	Prosopis velutina	11	13	PV	TREE_PIP
1302	Prosopis velutina	15	11	PV	TREE_PIP
1303	Prosopis velutina	3	8	PV	TREE_PIP
1304	Prosopis velutina	12	12	PV	TREE_PIP
1305	Prosopis velutina	4	7	PV	TREE_PIP
1306	Prosopis velutina	12	11	PV	TREE_PIP
1307	Prosopis velutina	12	14	PV	TREE_PIP
1308	Ferocactus wislizeni	0	5	FW	CACT_PIP
1309	Prosopis velutina	3	10	PV	TREE_PIP
1310	Prosopis velutina	12	14	PV	TREE_PIP
1311	Prosopis velutina	12	14	PV	TREE_PIP
1312	Prosopis velutina	12	11	PV	TREE_PIP
1313	Prosopis velutina	7	9	PV	TREE_PIP
1314	Prosopis velutina	10	10	PV	TREE_PIP
1315	Prosopis velutina	9	10	PV	TREE_PIP
1316	Prosopis velutina	8	10	PV	TREE_PIP
1317	Acacia greggii	13	9	AG	TREE_PIP
1318	Prosopis velutina	9	9	PV	TREE_PIP
1319	Ferocactus wislizeni	0	2	FW	CACT_PIP
1320	Prosopis velutina	5	9	PV	TREE_PIP
1321	Prosopis velutina	3	8	PV	TREE_PIP
1322	Prosopis velutina	7	10	PV	TREE_PIP
1323	Prosopis velutina	7	9	PV	TREE_PIP
1324	Prosopis velutina	10	12	PV	TREE_PIP
1325	Prosopis velutina	6	9	PV	TREE_PIP
1326	Prosopis velutina	5	9	PV	TREE_PIP
1327	Prosopis velutina	4	9	PV	TREE_PIP
1328	Prosopis velutina	7	9	PV	TREE_PIP
1329	Prosopis velutina	3	10	PV	TREE_PIP
1330	ZZ Non Native	0	0	CY	CACT_PIP
1331	Prosopis velutina	18	15	PV	TREE_PIP
1332	ZZ Non Native	0	0	CY	CACT_PIP
1333	Prosopis velutina	5	8	PV	TREE_PIP
1334	Prosopis velutina	5	7	PV	TREE_PIP
1335	Prosopis velutina	6	9	PV	TREE_PIP
1336	Acacia greggii	12	10	AG	TREE_PIP
1337	ZZ Non Native	0	0	CY	CACT_PIP
1338	Prosopis velutina	20	14	PV	TREE_PIP
1339	Prosopis velutina	3	8	PV	TREE_PIP
1340	ZZ Non Native	0	0	CY	CACT_PIP
1341	Prosopis velutina	6	8	PV	TREE_PIP
1342	Prosopis velutina	13	12	PV	TREE_PIP
1343	Prosopis velutina	3	9	PV	TREE_PIP
1344	Prosopis velutina	10	13	PV	TREE_PIP
1345	ZZ Non Native	0	0	CY	CACT_PIP
1346	Prosopis velutina	4	8	PV	TREE_PIP
1347	Prosopis velutina	9	10	PV	TREE_PIP
1348	Prosopis velutina	5	8	PV	TREE_PIP
1349	Prosopis velutina	5	10	PV	TREE_RFS
1350	Prosopis velutina	10	14	PV	TREE_PIP
1351	Acacia greggii	12	13	AG	TREE_PIP
1352	Prosopis velutina	6	10	PV	TREE_PIP
1353	Prosopis velutina	12	12	PV	TREE_PIP
1354	ZZ Non Native	0	0	CY	CACT_PIP
1355	Prosopis velutina	8	11	PV	TREE_PIP
1356	Prosopis velutina	12	14	PV	TREE_PIP
1357	Prosopis velutina	7	11	PV	TREE_PIP
1358	Prosopis velutina	11	14	PV	TREE_PIP
1359	Prosopis velutina	12	16	PV	TREE_RFS
1360	ZZ Non Native	0	0	CY	CACT_RFS
1361	Prosopis velutina	13	12	PV	TREE_RFS
1362	Prosopis velutina	5	8	PV	TREE_PIP
1363	Prosopis velutina	3	5	PV	TREE_PIP
1364	Acacia greggii	8	7	AG	TREE_PIP
1365	Prosopis velutina	3	8	PV	TREE_PIP
1366	Prosopis velutina	6	9	PV	TREE_PIP
1367	Prosopis velutina	5	9	PV	TREE_PIP
1368	Prosopis velutina	4	9	PV	TREE_PIP
1369	Prosopis velutina	10	18	PV	TREE_PIP
1370	Prosopis velutina	6	14	PV	TREE_PIP
1371	Acacia greggii	11	10	AG	TREE_PIP
1372	Prosopis velutina	8	10	PV	TREE_PIP
1373	Prosopis velutina	11	16	PV	TREE_PIP
1374	Prosopis velutina	12	12	PV	TREE_PIP
1375	ZZ Non Native	0	0	CY	CACT_PIP
1376	Prosopis velutina	4	7	PV	TREE_PIP
1377	Prosopis velutina	12	15	PV	TREE_PIP
1378	Prosopis velutina	13	20	PV	TREE_PIP
1379	Prosopis velutina	14	20	PV	TREE_PIP
1380	Prosopis velutina	12	15	PV	TREE_PIP
1381	Prosopis velutina	3	8	PV	TREE_PIP
1382	Prosopis velutina	3	8	PV	TREE_PIP
1383	Prosopis velutina	4	7	PV	TREE_PIP
1384	Prosopis velutina	10	9	PV	TREE_PIP
1385	Prosopis velutina	5	8	PV	TREE_PIP
1386	Prosopis velutina	8	12	PV	TREE_PIP
1387	Prosopis velutina	6	10	PV	TREE_PIP
1388	Prosopis velutina	3	9	PV	TREE_PIP
1389	Prosopis velutina	5	10	PV	TREE_PIP
1390	Prosopis velutina	10	14	PV	TREE_PIP
1391	Prosopis velutina	6	9	PV	TREE_PIP
1392	Prosopis velutina	7	8	PV	TREE_PIP
1393	Prosopis velutina	18	14	PV	TREE_PIP
1394	Acacia greggii	12	10	AG	TREE_RFS
1395	Acacia greggii	10	12	AG	TREE_RFS
1396	Prosopis velutina	8	10	PV	TREE_RFS
1397	Prosopis velutina	3	8	PV	TREE_RFS
1398	Acacia greggii	12	11	AG	TREE_RFS
1399	Prosopis velutina	9	14	PV	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1500	Prosopis velutina	10	12	PV	TREE_PIP
1501	Prosopis velutina	9	12	PV	TREE_PIP
1502	Prosopis velutina	11	15	PV	TREE_PIP
1503	Prosopis velutina	8	10	PV	TREE_PIP
1504	Prosopis velutina	10	12	PV	TREE_PIP
1505	ZZ Non Native	0	0	CY	CACT_PIP
1506	Prosopis velutina	6	12	PV	TREE_PIP
1507	Prosopis velutina	7	15	PV	TREE_PIP
1508	Prosopis velutina	8	10	PV	TREE_PIP
1509	Prosopis velutina	13	15	PV	TREE_PIP
1510	ZZ Non Native	0	0	CY	CACT_PIP
1511	Prosopis velutina	7	15	PV	TREE_PIP
1512	Prosopis velutina	7	10	PV	TREE_PIP
1513	Prosopis velutina	4	10	PV	TREE_PIP
1514	Prosopis velutina	18	25	PV	TREE_PIP
1515	ZZ Non Native	0	0	CY	CACT_PIP
1516	Prosopis velutina	18	20	PV	TREE_PIP
1517	Acacia greggii	8	10	AG	TREE_PIP
1518	Prosopis velutina	6	10	PV	TREE_PIP
1519	Prosopis velutina	10	15	PV	TREE_PIP
1520	Prosopis velutina	7	8	PV	TREE_PIP
1521	Prosopis velutina	12	15	PV	TREE_PIP
1522	Acacia greggii	13	15	AG	TREE_PIP
1523	Prosopis velutina	9	15	PV	TREE_PIP
1524	Prosopis velutina	9	15	PV	TREE_PIP
1525	Prosopis velutina	4	12	PV	TREE_PIP
1526	Prosopis velutina	4	12	PV	TREE_PIP
1527	Prosopis velutina	9	15	PV	TREE_PIP
1528	Prosopis velutina	3	10	PV	TREE_PIP
1529	Prosopis velutina	7	10	PV	TREE_PIP
1530	Prosopis velutina	9	15	PV	TREE_PIP
1531	Prosopis velutina	10	15	PV	TREE_PIP
1532	Prosopis velutina	5	10	PV	TREE_PIP
1533	Prosopis velutina	20	18	PV	TREE_PIP
1534	Prosopis velutina	6	8	PV	TREE_PIP
1535	Prosopis velutina	4	5	PV	TREE_PIP
1536	Prosopis velutina	4	5	PV	TREE_PIP
1537	Prosopis velutina	5	8	PV	TREE_PIP
1538	Prosopis velutina	4	8	PV	TREE_PIP
1539	Acacia greggii	8	6	AG	TREE_PIP
1540	Prosopis velutina	14	15	PV	TREE_PIP
1541	Prosopis velutina	12	15	PV	TREE_PIP
1542	Prosopis velutina	4	6	PV	TREE_PIP
1543	Prosopis velutina	6	12	PV	TREE_PIP
1544	Prosopis velutina	3	8	PV	TREE_PIP
1545	Prosopis velutina	4	8	PV	TREE_PIP
1546	Prosopis velutina	30	20	PV	TREE_PIP
1547	Prosopis velutina	3	6	PV	TREE_PIP
1548	Acacia greggii	8	8	AG	TREE_PIP
1549	ZZ Non Native	0	0	CY	CACT_PIP
1550	Acacia greggii	8	10	AG	TREE_PIP
1551	Prosopis velutina	30	25	PV	TREE_PIP
1552	Acacia greggii	8	10	AG	TREE_PIP
1553	ZZ Non Native	0	0	CY	CACT_PIP
1554	Acacia greggii	9	10	AG	TREE_PIP
1555	Acacia greggii	12	15	AG	TREE_PIP
1556	Prosopis velutina	25	25	PV	TREE_PIP
1557	Prosopis velutina	6	12	PV	TREE_PIP
1558	Prosopis velutina	24	20	PV	TREE_PIP
1559	Prosopis velutina	9	15	PV	TREE_PIP
1560	Prosopis velutina	8	12	PV	TREE_PIP
1561	Acacia greggii	8	8	AG	TREE_PIP
1562	Prosopis velutina	3	6	PV	TREE_PIP
1563	Prosopis velutina	4	10	PV	TREE_PIP
1564	Prosopis velutina	3	8	PV	TREE_PIP
1565	Acacia greggii	8	8	AG	TREE_PIP
1566	Prosopis velutina	12	15	PV	TREE_PIP
1567	Prosopis velutina	5	15	PV	TREE_PIP
1568	Prosopis velutina	12	20	PV	TREE_PIP
1569	Prosopis velutina	25	20	PV	TREE_PIP
1570	Prosopis velutina	16	20	PV	TREE_PIP
1571	Prosopis velutina	8	8	PV	TREE_PIP
1572	Prosopis velutina	10	10	PV	TREE_PIP
1573	Prosopis velutina	10	15	PV	TREE_PIP
1574	Prosopis velutina	6	8	PV	TREE_PIP
1575	Prosopis velutina	10	15	PV	TREE_PIP
1576	Prosopis velutina	3	6	PV	TREE_PIP
1577	Prosopis velutina	4	10	PV	TREE_PIP
1578	Prosopis velutina	7	12	PV	TREE_PIP
1579	Prosopis velutina	3	8	PV	TREE_PIP
1580	Prosopis velutina	4	10	PV	TREE_PIP
1581	Prosopis velutina	6	12	PV	TREE_PIP
1582	Prosopis velutina	3	8	PV	TREE_PIP
1583	Prosopis velutina	3	10	PV	TREE_PIP
1584	Prosopis velutina	8	15	PV	TREE_PIP
1585	Prosopis velutina	3	8	PV	TREE_PIP
1586	Prosopis velutina	3	8	PV	TREE_PIP
1587	Prosopis velutina	3	10	PV	TREE_PIP
1588	Prosopis velutina	3	8	PV	TREE_PIP
1589	Prosopis velutina	3	8	PV	TREE_PIP
1590	Prosopis velutina	4	8	PV	TREE_PIP
1591	Prosopis velutina	6	12	PV	TREE_PIP
1592	Prosopis velutina	7	10	PV	TREE_PIP
1593	Prosopis velutina	12	20	PV	TREE_PIP
1594	Prosopis velutina	3	6	PV	TREE_PIP
1595	Prosopis velutina	6	10	PV	TREE_PIP
1596	Prosopis velutina	5	10	PV	TREE_PIP
1597	Prosopis velutina	3	10	PV	TREE_PIP
1598	Acacia greggii	8	10	AG	TREE_PIP
1599	Acacia greggii	8	10	AG	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1600	Prosopis velutina	6	10	PV	TREE_PIP
1601	ZZ Non Native	0	0	CY	CACT_PIP
1602	Acacia greggii	10	10	AG	TREE_PIP
1603	Prosopis velutina	9	15	PV	TREE_PIP
1604	Prosopis velutina	6	10	PV	TREE_PIP
1605	Prosopis velutina	6	10	PV	TREE_PIP
1606	Prosopis velutina	24	20	PV	TREE_PIP
1607	ZZ Non Native	0	0	CY	CACT_PIP
1608	Prosopis velutina	12	15	PV	TREE_PIP
1609	ZZ Non Native	0	0	CY	CACT_PIP
1610	Prosopis velutina	12	15	PV	TREE_PIP
1611	Prosopis velutina	40	20	PV	TREE_PIP
1612	Prosopis velutina	15	20	PV	TREE_PIP
1613	Prosopis velutina	10	15	PV	TREE_PIP
1614	Acacia greggii	8	8	AG	TREE_PIP
1615	Prosopis velutina	15	15	PV	TREE_PIP
1616	Prosopis velutina	18	20	PV	TREE_PIP
1617	Prosopis velutina	4	8	PV	TREE_PIP
1618	Prosopis velutina	12	15	PV	TREE_PIP
1619	Prosopis velutina	30	25	PV	TREE_PIP
1620	Prosopis velutina	12	15	PV	TREE_PIP
1621	Prosopis velutina	9	10	PV	TREE_PIP
1622	Prosopis velutina	8	12	PV	TREE_PIP
1623	Prosopis velutina	8	12	PV	TREE_PIP
1624	ZZ Non Native	0	0	CY	CACT_PIP
1625	Prosopis velutina	10	10	PV	TREE_PIP
1626	Prosopis velutina	12	15	PV	TREE_PIP
1627	Prosopis velutina	10	10	PV	TREE_PIP
1628	Prosopis velutina	16	12	PV	TREE_PIP
1629	Prosopis velutina	8	10	PV	TREE_PIP
1630	Prosopis velutina	5	9	PV	TREE_PIP
1631	Acacia greggii	8	8	AG	TREE_PIP
1632	Acacia greggii	8	12	AG	TREE_PIP
1633	Acacia greggii	8	10	AG	TREE_PIP
1634	Prosopis velutina	10	15	PV	TREE_PIP
1635	Prosopis velutina	4	10	PV	TREE_PIP
1636	Acacia greggii	8	12	AG	TREE_PIP
1637	Acacia greggii	8	8	AG	TREE_PIP
1638	Prosopis velutina	6	8	PV	TREE_PIP
1639	ZZ Non Native	0	0	CY	CACT_PIP
1640	Prosopis velutina	24	25	PV	TREE_PIP
1641	Acacia greggii	8	10	AG	TREE_PIP
1642	Prosopis velutina	30	25	PV	TREE_PIP
1643	Prosopis velutina	30	25	PV	TREE_PIP
1644	Prosopis velutina	8	15	PV	TREE_PIP
1645	Prosopis velutina	18	20	PV	TREE_PIP
1646	Acacia greggii	8	12	AG	TREE_PIP
1647	Prosopis velutina	22	15	PV	TREE_PIP
1648	Acacia greggii	8	8	AG	TREE_PIP
1649	Prosopis velutina	12	12	PV	TREE_PIP
1650	Prosopis velutina	8	15	PV	TREE_PIP
1651	Prosopis velutina	6	10	PV	TREE_PIP
1652	Prosopis velutina	4	8	PV	TREE_PIP
1653	Prosopis velutina	9	10	PV	TREE_PIP
1654	Prosopis velutina	18	15	PV	TREE_PIP
1655	Prosopis velutina	8	20	PV	TREE_PIP
1656	Prosopis velutina	18	20	PV	TREE_PIP
1657	Celtis reticulata	25	20	CR	TREE_PIP
1658	Celtis reticulata	20	20	CR	TREE_PIP
1659	Celtis reticulata	8	10	CR	TREE_PIP
1660	Celtis reticulata	8	12	CR	TREE_PIP
1661	Celtis reticulata	12	15	CR	TREE_PIP
1662	Acacia greggii	8	15	AG	TREE_PIP
1663	Prosopis velutina	12	15	PV	TREE_PIP
1664	Celtis reticulata	3	12	CR	TREE_PIP
1665	Celtis reticulata	3	10	CR	TREE_PIP
1666	Prosopis velutina	3	8	PV	TREE_PIP
1667	Prosopis velutina	30	20	PV	TREE_PIP
1668	Celtis reticulata	4	8	CR	TREE_PIP
1669	Acacia greggii	8	8	AG	TREE_PIP
1670	Prosopis velutina	10	18	PV	TREE_PIP
1671	Prosopis velutina	10	15	PV	TREE_PIP
1672	Prosopis velutina	8	12	PV	TREE_PIP
1673	Prosopis velutina	20	15	PV	TREE_PIP
1674	Prosopis velutina	18	15	PV	TREE_PIP
1675	Prosopis velutina	10	15	PV	TREE_PIP
1676	Prosopis velutina	10	12	PV	TREE_PIP
1677	Celtis reticulata	12	15	CR	TREE_PIP
1678	Celtis reticulata	9	15	CR	TREE_PIP
1679	Acacia greggii	8	10	AG	TREE_PIP
1680	Celtis reticulata	14	15	CR	TREE_PIP
1681	Celtis reticulata	3	8	CR	TREE_PIP
1682	Prosopis velutina	12	15	PV	TREE_PIP
1683	Prosopis velutina	24	20	PV	TREE_PIP
1684	Acacia greggii	8	8	AG	TREE_PIP
1685	Prosopis velutina	30	25	PV	TREE_PIP
1686	Acacia greggii	10	10	AG	TREE_PIP
1687	Prosopis velutina	18	18	PV	TREE_PIP
1688	Acacia greggii	9	9	AG	TREE_PIP
1689	Prosopis velutina	32	25	PV	TREE_PIP
1690	Acacia greggii	8	10	AG	TREE_PIP
1691	Prosopis velutina	12	15	PV	TREE_PIP
1692	Acacia greggii	10	8	AG	TREE_PIP
1693	Celtis reticulata	8	10	CR	TREE_PIP
1694	Prosopis velutina	18	15	PV	TREE_PIP
1695	Prosopis velutina	24	20	PV	TREE_PIP
1696	Prosopis velutina	8	12	PV	TREE_PIP
1697	Prosopis velutina	6	10	PV	TREE_PIP
1698	Celtis reticulata	3	8	CR	TREE_PIP
1699	Celtis reticulata	6	12	CR	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1700	Celtis reticulata	4	8	CR	TREE_PIP
1701	Celtis reticulata	3	8	CR	TREE_PIP
1702	Celtis reticulata	3	8	CR	TREE_PIP
1703	Acacia greggii	8	5	AG	TREE_PIP
1704	Acacia greggii	8	5	AG	TREE_PIP
1705	Prosopis velutina	20	15	PV	TREE_PIP
1706	Celtis reticulata	6	8	CR	TREE_PIP
1707	Acacia greggii	9	6	AG	TREE_PIP
1708	Celtis reticulata	6	8	CR	TREE_PIP
1709	Celtis reticulata	6	8	CR	TREE_PIP
1710	Celtis reticulata	6	10	CR	TREE_PIP
1711	Acacia greggii	8	12	AG	TREE_PIP
1712	Acacia greggii	8	10	AG	TREE_PIP
1713	Prosopis velutina	32	25	PV	TREE_PIP
1714	Acacia greggii	9	10	AG	TREE_PIP
1715	Celtis reticulata	4	10	CR	TREE_PIP
1716	Prosopis velutina	6	10	PV	TREE_RFS
1717	Prosopis velutina	6	12	PV	TREE_RFS
1718	Prosopis velutina	10	15	PV	TREE_RFS
1719	Prosopis velutina	10	15	PV	TREE_RFS
1720	Prosopis velutina	4	10	PV	TREE_RFS
1721	Prosopis velutina	8	15	PV	TREE_RFS
1722	Prosopis velutina	6	12	PV	TREE_RFS
1723	Acacia greggii	8	6	AG	TREE_RFS
1724	Prosopis velutina	30	25	PV	TREE_RFS
1725	ZZ Non Native	0	0	CY	CACT_RFS
1726	Prosopis velutina	10	18	PV	TREE_RFS
1727	Prosopis velutina	6	12	PV	TREE_RFS
1728	ZZ Non Native	0	0	CY	CACT_RFS
1729	Prosopis velutina	30	30	PV	TREE_RFS
1730	Prosopis velutina	8	12	PV	TREE_RFS
1731	Prosopis velutina	18	20	PV	TREE_PIP
1732	Celtis reticulata	4	12	CR	TREE_PIP
1733	Prosopis velutina	4	10	PV	TREE_PIP
1734	Fouquieria splendens	0	20	FS	CACT_PIP
1735	Fouquieria splendens	0	20	FS	CACT_PIP
1736	Prosopis velutina	28	25	PV	TREE_PIP
1737	Prosopis velutina	5	12	PV	TREE_PIP
1738	Prosopis velutina	10	20	PV	TREE_PIP
1739	Prosopis velutina	10	20	PV	TREE_PIP
1740	Prosopis velutina	24	25	PV	TREE_PIP
1741	Prosopis velutina	6	15	PV	TREE_PIP
1742	Prosopis velutina	14	15	PV	TREE_PIP
1743	Prosopis velutina	8	15	PV	TREE_PIP
1744	Prosopis velutina	10	15	PV	TREE_PIP
1745	Prosopis velutina	16	15	PV	TREE_PIP
1746	Prosopis velutina	15	20	PV	TREE_PIP
1747	ZZ Non Native	0	0	CY	CACT_PIP
1748	Prosopis velutina	22	25	PV	TREE_PIP
1749	Prosopis velutina	12	20	PV	TREE_PIP
1750	Acacia greggii	8	12	AG	TREE_PIP
1751	Prosopis velutina	12	20	PV	TREE_PIP
1752	Prosopis velutina	6	12	PV	TREE_RFS
1753	Prosopis velutina	10	15	PV	TREE_PIP
1754	Prosopis velutina	10	12	PV	TREE_PIP
1755	Prosopis velutina	8	15	PV	TREE_RFS
1756	Prosopis velutina	7	10	PV	TREE_RFS
1757	Prosopis velutina	5	8	PV	TREE_RFS
1758	Prosopis velutina	5	10	PV	TREE_RFS
1759	Acacia greggii	12	0	AG	TREE_RFS
1760	Celtis reticulata	11	15	CR	TREE_RFS
1761	Prosopis velutina	26	25	PV	TREE_RFS
1762	Celtis reticulata	6	10	CR	TREE_PIP
1763	Prosopis velutina	9	15	PV	TREE_RFS
1764	Prosopis velutina	15	15	PV	TREE_RFS
1765	ZZ Non Native	0	0	AP	CACT_SAL
1766	ZZ Non Native	0	0	AP	CACT_SAL
1767	Prosopis velutina	8	12	PV	TREE_RFS
1768	Prosopis velutina	10	12	PV	TREE_RFS
1769	Fouquieria splendens	0	7	FS	CACT_SAL
1770	Acacia greggii	8	11	AG	TREE_RFS
1771	Fouquieria splendens	0	1	FS	CACT_SAL
1772	Fouquieria splendens	0	1	FS	CACT_SAL
1773	Fouquieria splendens	0	6	FS	CACT_SAL
1774	Prosopis velutina	6	8	PV	TREE_RFS
1775	Prosopis velutina	4	8	PV	TREE_RFS
1776	Prosopis velutina	16	18	PV	TREE_RFS
1777	Fouquieria splendens	0	7	FS	CACT_SAL
1778	Fouquieria splendens	0	9	FS	CACT_SAL
1779	Fouquieria splendens	0	3	FS	CACT_SAL
1780	Fouquieria splendens	0	4	FS	CACT_SAL
1781	Fouquieria splendens	0	4	FS	CACT_SAL
1782	Fouquieria splendens	0	15	FS	CACT_SAL
1783	Fouquieria splendens	0	2	FS	CACT_SAL
1784	Prosopis velutina	12	18	PV	TREE_RFS
1785	ZZ Non Native	0	0	CY	CACT_RFS
1786	Prosopis velutina	6	10	PV	TREE_RFS
1787	Prosopis velutina	6	10	PV	TREE_RFS
1788	ZZ Non Native	0	0	CY	CACT_RFS
1789	Prosopis velutina	7	10	PV	TREE_RFS
1790	ZZ Non Native	0	0	CY	CACT_RFS
1791	Fouquieria splendens	0	2	FS	CACT_SAL
1792	Fouquieria splendens	0	10	FS	CACT_SAL
1793	ZZ Non Native	0	0	CY	CACT_RFS
1794	Fouquieria splendens	0	7	FS	CACT_SAL
1795	ZZ Non Native	0	0	CY	CACT_RFS
1796	ZZ Non Native	0	0	CY	CACT_RFS
1797	Prosopis velutina	3	10	PV	TREE_RFS
1798	Fouquieria splendens	0	3	FS	CACT_SAL
1799	ZZ Non Native	0	0	CY	CACT_RFS

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
1900	Fouquieria splendens	0	1	FS	CACT_PIP
1901	Fouquieria splendens	0	1	FS	CACT_PIP
1902	Fouquieria splendens	0	1	FS	CACT_PIP
1903	Fouquieria splendens	0	1	FS	CACT_PIP
1904	ZZ Non Native	0	0	CY	CACT_PIP
1905	ZZ Non Native	0	0	CY	CACT_PIP
1906	Fouquieria splendens	0	2	FS	CACT_PIP
1907	ZZ Non Native	0	0	CY	CACT_PIP
1908	Fouquieria splendens	0	6	FS	CACT_PIP
1909	Fouquieria splendens	0	5	FS	CACT_PIP
1910	ZZ Non Native	0	0	CY	CACT_PIP
1911	Fouquieria splendens	0	5	FS	CACT_PIP
1912	Fouquieria splendens	0	2	FS	CACT_PIP
1913	Fouquieria splendens	0	2	FS	CACT_PIP
1914	Prosopis velutina	5	8	PV	TREE_PIP
1915	Fouquieria splendens	0	22	FS	CACT_PIP
1916	Prosopis velutina	11	8	PV	TREE_PIP
1917	Fouquieria splendens	0	3	FS	CACT_PIP
1918	Fouquieria splendens	0	4	FS	CACT_PIP
1919	Fouquieria splendens	0	1	FS	CACT_PIP
1920	Fouquieria splendens	0	3	FS	CACT_PIP
1921	Fouquieria splendens	0	1	FS	CACT_PIP
1922	Fouquieria splendens	0	6	FS	CACT_PIP
1923	Fouquieria splendens	0	8	FS	CACT_PIP
1924	ZZ Non Native	0	0	CY	CACT_PIP
1925	Fouquieria splendens	0	1	FS	CACT_PIP
1926	Fouquieria splendens	0	2	FS	CACT_PIP
1927	Fouquieria splendens	0	15	FS	CACT_PIP
1928	Fouquieria splendens	0	15	FS	CACT_PIP
1929	ZZ Non Native	0	0	CY	CACT_PIP
1930	Fouquieria splendens	0	1	FS	CACT_PIP
1931	Fouquieria splendens	0	0.5	FS	CACT_PIP
1932	Fouquieria splendens	0	1	FS	CACT_PIP
1933	Fouquieria splendens	0	2	FS	CACT_PIP
1934	Fouquieria splendens	0	2	FS	CACT_PIP
1935	Fouquieria splendens	0	6	FS	CACT_PIP
1936	Fouquieria splendens	0	3	FS	CACT_PIP
1937	Fouquieria splendens	0	0.5	FS	CACT_PIP
1938	Fouquieria splendens	0	2	FS	CACT_PIP
1939	Fouquieria splendens	0	3	FS	CACT_PIP
1940	Fouquieria splendens	0	4	FS	CACT_PIP
1941	ZZ Non Native	0	0	CY	CACT_PIP
1942	Fouquieria splendens	0	0.5	FS	CACT_PIP
1943	Fouquieria splendens	0	6	FS	CACT_PIP
1944	ZZ Non Native	0	0	CY	CACT_PIP
1945	ZZ Non Native	0	0	CY	CACT_PIP
1946	ZZ Non Native	0	0	CY	CACT_RFS
1947	Fouquieria splendens	0	3	FS	CACT_SAL
1948	Fouquieria splendens	0	1	FS	CACT_SAL
1949	ZZ Non Native	0	0	CY	CACT_RFS
1950	ZZ Non Native	0	0	CY	CACT_RFS
1951	ZZ Non Native	0	0	CY	CACT_RFS
1952	Fouquieria splendens	0	1	FS	CACT_SAL
1953	Fouquieria splendens	0	3	FS	CACT_SAL
1954	Fouquieria splendens	0	2	FS	CACT_SAL
1955	Fouquieria splendens	0	1	FS	CACT_SAL
1956	Fouquieria splendens	0	9	FS	CACT_RFS
1957	Fouquieria splendens	0	20	FS	CACT_PIP
1958	Fouquieria splendens	0	6	FS	CACT_PIP
1959	Fouquieria splendens	0	5	FS	CACT_PIP
1960	Fouquieria splendens	0	3	FS	CACT_PIP
1961	Fouquieria splendens	0	2	FS	CACT_PIP
1962	Fouquieria splendens	0	7	FS	CACT_PIP
1963	Fouquieria splendens	0	7	FS	CACT_PIP
1964	ZZ Non Native	0	0	CY	CACT_PIP
1965	Fouquieria splendens	0	4	FS	CACT_PIP
1966	Fouquieria splendens	0	2	FS	CACT_PIP
1967	Fouquieria splendens	0	4	FS	CACT_PIP
1968	Fouquieria splendens	0	2	FS	CACT_PIP
1969	Fouquieria splendens	0	5	FS	CACT_PIP
1970	Fouquieria splendens	0	2	FS	CACT_PIP
1971	Fouquieria splendens	0	2	FS	CACT_PIP
1972	ZZ Non Native	0	0	CY	CACT_PIP
1973	Fouquieria splendens	0	1	FS	CACT_PIP
1974	ZZ Non Native	0	0	CY	CACT_PIP
1975	ZZ Non Native	0	0	CY	CACT_PIP
1976	Ferocactus wislizeni	0	1	FW	CACT_PIP
1977	Fouquieria splendens	0	1	FS	CACT_PIP
1978	Fouquieria splendens	0	5	FS	CACT_PIP
1979	Fouquieria splendens	0	2	FS	CACT_PIP
1980	Fouquieria splendens	0	1	FS	CACT_PIP
1981	Fouquieria splendens	0	8	FS	CACT_PIP
1982	Fouquieria splendens	0	3	FS	CACT_PIP
1983	ZZ Non Native	0	0	CY	CACT_PIP
1984	Fouquieria splendens	0	15	FS	CACT_PIP
1985	Fouquieria splendens	0	2	FS	CACT_SAL
1986	Fouquieria splendens	0	3	FS	CACT_SAL
1987	Fouquieria splendens	0	3	FS	CACT_SAL
1988	Fouquieria splendens	0	2	FS	CACT_SAL
1989	Fouquieria splendens	0	1	FS	CACT_SAL
1990	Fouquieria splendens	0	3	FS	CACT_SAL
1991	Fouquieria splendens	0	6	FS	CACT_SAL
1992	Prosopis velutina	4	8	PV	TREE_RFS
1993	Prosopis velutina	8	8	PV	TREE_RFS
1994	Prosopis velutina	6	7	PV	TREE_RFS
1995	Prosopis velutina	5	7	PV	TREE_RFS
1996	Fouquieria splendens	0	2	FS	CACT_SAL
1997	ZZ Non Native	0	0	CY	CACT_RFS
1998	Fouquieria splendens	0	5	FS	CACT_SAL
1999	ZZ Non Native	0	0	CY	CACT_RFS

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
2000	Fouquieria splendens	0	2	FS	CACT_SAL
2001	Fouquieria splendens	0	2	FS	TREE_PIP
2002	Fouquieria splendens	0	5	FS	TREE_PIP
2003	Fouquieria splendens	0	1	FS	CACT_SAL
2004	ZZ Non Native	0	0	CY	CACT_RFS
2005	Fouquieria splendens	0	2	FS	CACT_SAL
2006	Fouquieria splendens	0	20	FS	TREE_PIP
2007	Fouquieria splendens	0	8	FS	TREE_PIP
2008	Fouquieria splendens	0	4	FS	TREE_PIP
2009	Fouquieria splendens	0	20	FS	TREE_PIP
2010	ZZ Non Native	0	0	CY	CACT_PIP
2011	Fouquieria splendens	0	3	FS	TREE_PIP
2012	Fouquieria splendens	0	4	FS	TREE_PIP
2013	Fouquieria splendens	0	2	FS	TREE_PIP
2014	Fouquieria splendens	0	8	FS	TREE_PIP
2015	Fouquieria splendens	0	5	FS	TREE_PIP
2016	Fouquieria splendens	0	5	FS	TREE_PIP
2017	Fouquieria splendens	0	12	FS	TREE_PIP
2018	Fouquieria splendens	0	15	FS	TREE_PIP
2019	Fouquieria splendens	0	20	FS	TREE_PIP
2020	ZZ Non Native	0	0	CY	CACT_PIP
2021	Fouquieria splendens	0	3	FS	CACT_SAL
2022	Fouquieria splendens	0	9	FS	CACT_SAL
2023	ZZ Non Native	0	0	CY	CACT_RFS
2024	ZZ Non Native	0	0	CY	CACT_RFS
2025	Prosopis velutina	10	10	PV	TREE_RFS
2026	Prosopis velutina	5	8	PV	TREE_RFS
2027	Prosopis velutina	6	8	PV	TREE_RFS
2028	Ferocactus wislizeni	0	3	FW	CACT_PIP
2029	Prosopis velutina	5	6	PV	TREE_PIP
2030	ZZ Non Native	0	0	CY	CACT_PIP
2031	Fouquieria splendens	0	1	FS	CACT_PIP
2032	Fouquieria splendens	0	20	FS	CACT_PIP
2033	Fouquieria splendens	0	0.5	FS	CACT_PIP
2034	Fouquieria splendens	0	1	FS	CACT_PIP
2035	Fouquieria splendens	0	2	FS	CACT_PIP
2036	Fouquieria splendens	0	7	FS	CACT_PIP
2037	ZZ Non Native	0	0	CY	CACT_PIP
2038	Fouquieria splendens	0	3	FS	CACT_PIP
2039	Fouquieria splendens	0	2	FS	CACT_PIP
2040	Fouquieria splendens	0	3	FS	CACT_PIP
2041	Ferocactus wislizeni	0	1	FW	CACT_PIP
2042	Fouquieria splendens	0	4	FS	CACT_PIP
2043	Fouquieria splendens	0	5	FS	CACT_PIP
2044	Fouquieria splendens	0	1	FS	CACT_PIP
2045	Fouquieria splendens	0	2	FS	CACT_PIP
2046	Fouquieria splendens	0	1	FS	CACT_PIP
2047	Fouquieria splendens	0	3	FS	CACT_PIP
2048	Fouquieria splendens	0	1	FS	CACT_PIP
2049	Fouquieria splendens	0	8	FS	CACT_PIP
2050	Fouquieria splendens	0	1	FS	CACT_PIP
2051	Fouquieria splendens	0	1	FS	CACT_PIP
2052	Fouquieria splendens	0	1	FS	CACT_PIP
2053	Fouquieria splendens	0	5	FS	CACT_PIP
2054	Fouquieria splendens	0	4	FS	CACT_PIP
2055	ZZ Non Native	0	0	CY	CACT_PIP
2056	Fouquieria splendens	0	2	FS	CACT_PIP
2057	Fouquieria splendens	0	1	FS	CACT_PIP
2058	Fouquieria splendens	0	4	FS	CACT_PIP
2059	Fouquieria splendens	0	8	FS	CACT_PIP
2060	Fouquieria splendens	0	0.5	FS	CACT_PIP
2061	Fouquieria splendens	0	16	FS	CACT_PIP
2062	Fouquieria splendens	0	15	FS	CACT_PIP
2063	Fouquieria splendens	0	16	FS	CACT_PIP
2064	ZZ Non Native	0	0	CY	CACT_PIP
2065	ZZ Non Native	0	0	CY	CACT_PIP
2066	ZZ Non Native	0	0	CY	CACT_PIP
2067	Fouquieria splendens	0	4	FS	CACT_PIP
2068	Fouquieria splendens	0	20	FS	CACT_PIP
2069	ZZ Non Native	0	0	CY	CACT_PIP
2070	Fouquieria splendens	0	18	FS	CACT_PIP
2071	ZZ Non Native	0	0	CY	CACT_PIP
2072	ZZ Non Native	0	0	CY	CACT_PIP
2073	ZZ Non Native	0	0	CY	CACT_RFS
2074	Prosopis velutina	4	5	PV	TREE_PIP
2075	Fouquieria splendens	0	6	FS	CACT_PIP
2076	Prosopis velutina	3	6	PV	TREE_PIP
2077	Fouquieria splendens	0	6	FS	CACT_PIP
2078	ZZ Non Native	0	0	CY	CACT_PIP
2079	ZZ Non Native	0	0	CY	CACT_RFS
2080	Fouquieria splendens	0	4	FS	CACT_PIP
2081	ZZ Non Native	0	0	CY	CACT_RFS
2082	Ferocactus wislizeni	0	1	FW	CACT_SAL
2083	Prosopis velutina	4	6	PV	TREE_RFS
2084	ZZ Non Native	0	0	CY	CACT_RFS
2085	Prosopis velutina	3	6	PV	TREE_RFS
2086	Prosopis velutina	4	7	PV	TREE_RFS
2087	Prosopis velutina	9	8	PV	TREE_RFS
2088	Prosopis velutina	10	8	PV	TREE_RFS
2089	Prosopis velutina	14	10	PV	TREE_RFS
2090	Prosopis velutina	12	10	PV	TREE_RFS
2091	Prosopis velutina	3	10	PV	TREE_PIP
2092	Prosopis velutina	10	12	PV	TREE_RFS
2093	Prosopis velutina	9	12	PV	TREE_RFS
2094	Prosopis velutina	3	7	PV	TREE_PIP
2095	Prosopis velutina	13	15	PV	TREE_RFS
2096	Prosopis velutina	9	10	PV	TREE_PIP
2097	Prosopis velutina	3	7	PV	TREE_PIP
2098	Prosopis velutina	18	15	PV	TREE_PIP
2099	Prosopis velutina	9	12	PV	TREE_PIP

NUMBER	BOTANICAL NAME	CALIPER	HEIGHT	ABBREVIATION	DISPOSITION
2100	Prosopis velutina	9	12	PV	TREE_PIP
2101	Prosopis velutina	7	12	PV	TREE_PIP
2102	Prosopis velutina	8	12	PV	TREE_PIP
2103	Prosopis velutina	10	12	PV	TREE_PIP
2104	Prosopis velutina	3	8	PV	TREE_PIP
2105	Prosopis velutina	22	16	PV	TREE_PIP
2106	Acacia greggii	10	12	AG	TREE_RFS
2107	Prosopis velutina	10	12	PV	TREE_RFS
2108	Prosopis velutina	6	8	PV	TREE_PIP
2109	Prosopis velutina	10	12	PV	TREE_RFS
2110	Prosopis velutina	8	12	PV	TREE_RFS
2111	Prosopis velutina	14	15	PV	TREE_RFS
2112	Fouquieria splendens	0	10	FS	CACT_SAL
2113	Prosopis velutina	7	12	PV	TREE_RFS
2114	Acacia greggii	8	10	AG	TREE_RFS

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					
Contact Arizona 811 at least two full working days before you begin excavation ARIZONA 811 Call 811 or click Arizona811.com					

NATIVE PLANT INVENTORY SUMMARY

Kathryn Skinner, P.E., Director

Pima County Department of Transportation

Date	03/2026	03/2026	03/2026	03/2026
Designed	JM	JM	LM	
Drawn				
Checked				
Proj. Engr.				

No.	Revision	Description	Engineer	Date

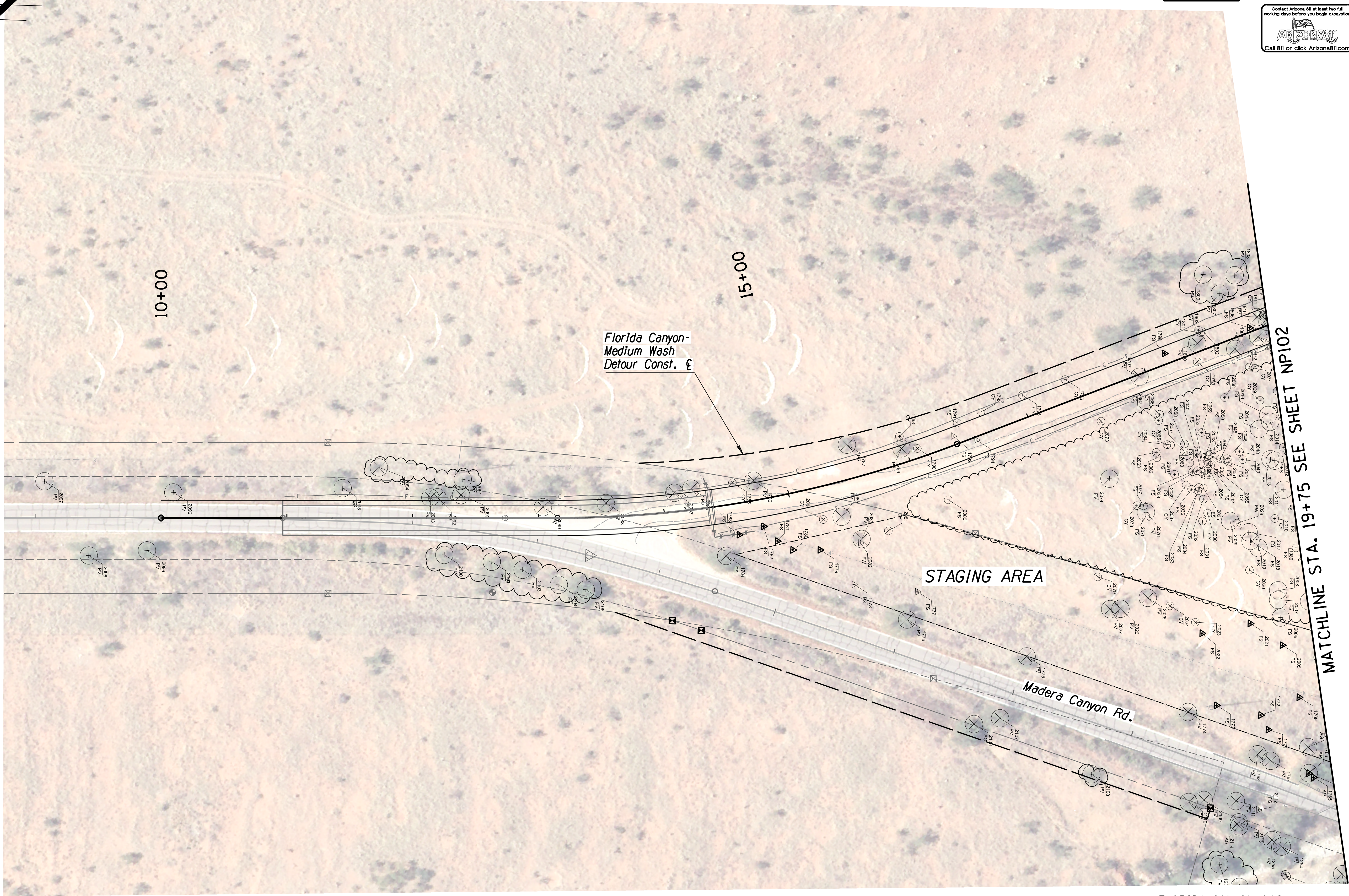
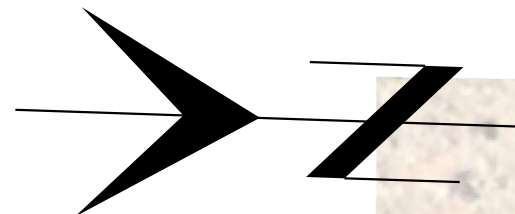


MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Pima County Department of Transportation

Penetabid2-FULL.tbl
Florida2-pdt.pho



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

T0540 OIC



Kathryn Skinner, P.E., Director

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	LM	

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

Pima County Department of Transportation

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Wash Bridge Replacement

Penetration: FULL.tbl
Plot: 24041PJ-plot1.ctb

MATCHLINE STA. 19+75 SEE SHEET NPI01



FLORIDA CANYON WASH
NATIVE PLANT INVENTORY
STA. 19+75 TO 30+00

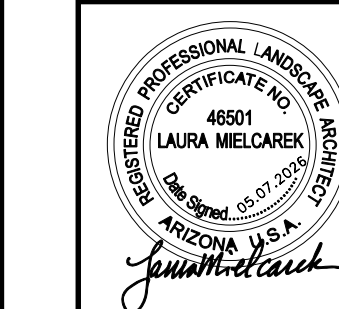
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			
T0540 OIC					

Call 811 or click Arizona811.com

No.	Revision Description	Engineer	Date

Date	03/2026
Designed	JM
Drawn	JM
Checked	LM
Proj. Engr.	03/2026

No.	Revision Description	Engineer	Date



MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ

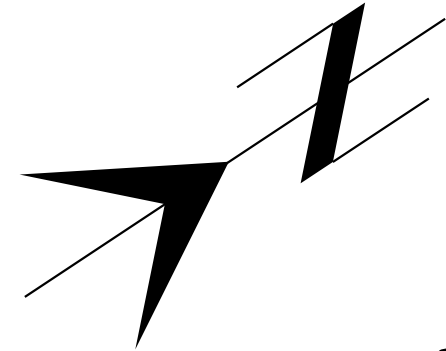
Pima County Department of Transportation

Kathryn Skinner, P.E., Director

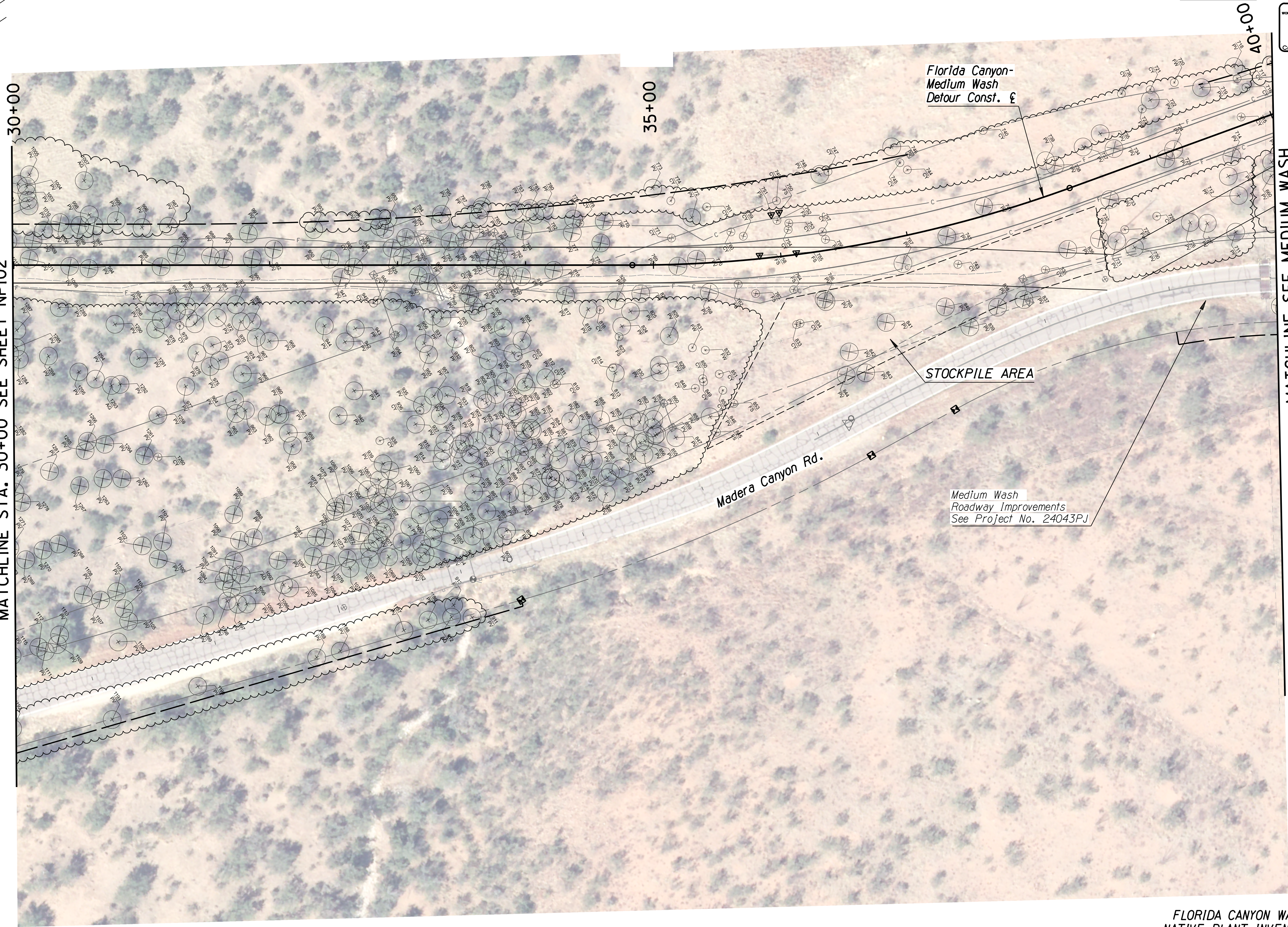
Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

Project: 24041PJ
Client: Madera Canyon Wash Bridge Replacement

Penetration: FULL.tbl
Plot: 24041PJ-plot.pdf



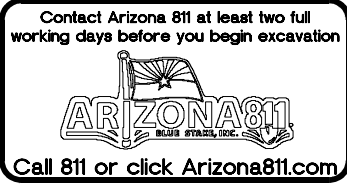
MATCHLINE STA. 30+00 SEE SHEET NPI02



FLORIDA CANYON WASH
NATIVE PLANT INVENTORY
STA. 30+00 TO 40+00

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	PPM-0127310			

T0540 OIC



MATCHLINE SEE MEDIUM WASH
BRIDGE REPLACEMENT
PROJECT No. 24043PJ

Pima County Department of Transportation

Kathryn Skinner, P.E., Director

MADERA CANYON ROAD
FLORIDA CANYON WASH
BRIDGE REPLACEMENT
PROJECT NO. 24041PJ



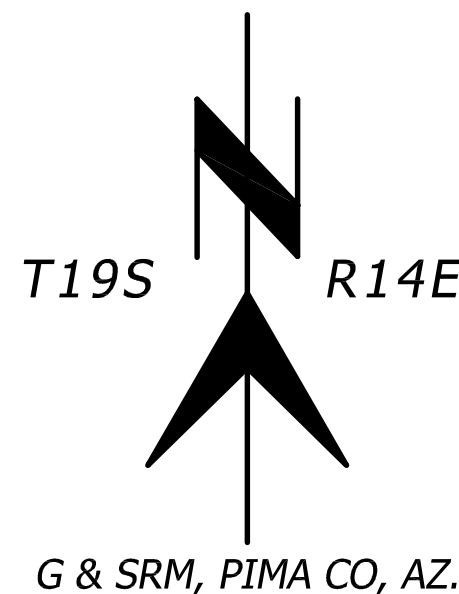
No.	Revision	Description	Engineer	Date

Date	Designed	Drawn	Checked	Proj. Engr.
03/2026	JM	JM	LM	
03/2026				
03/2026				

Madera Canyon Road, Florida Canyon Wash Bridge Replacement (24041PJ)

MADERA CANYON ROAD
RECORD OF SURVEY & RIGHT OF WAY ACQUISITION

A.D.O.T. PROJECT NO. T0540 & T0541
PIMA COUNTY PROJECT NO. 24041PJ & 24043PJ
FEDERAL PROJECT NO. PPM-0(273)D & PPM-0(274)D

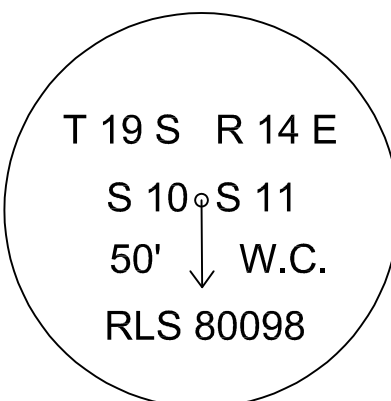
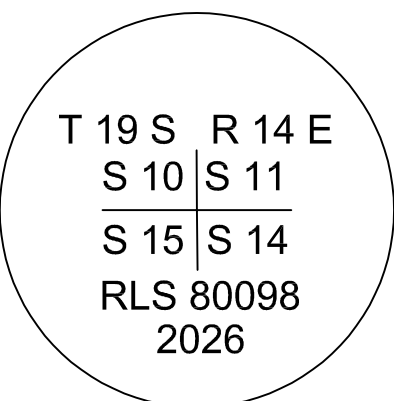


GENERAL NOTES

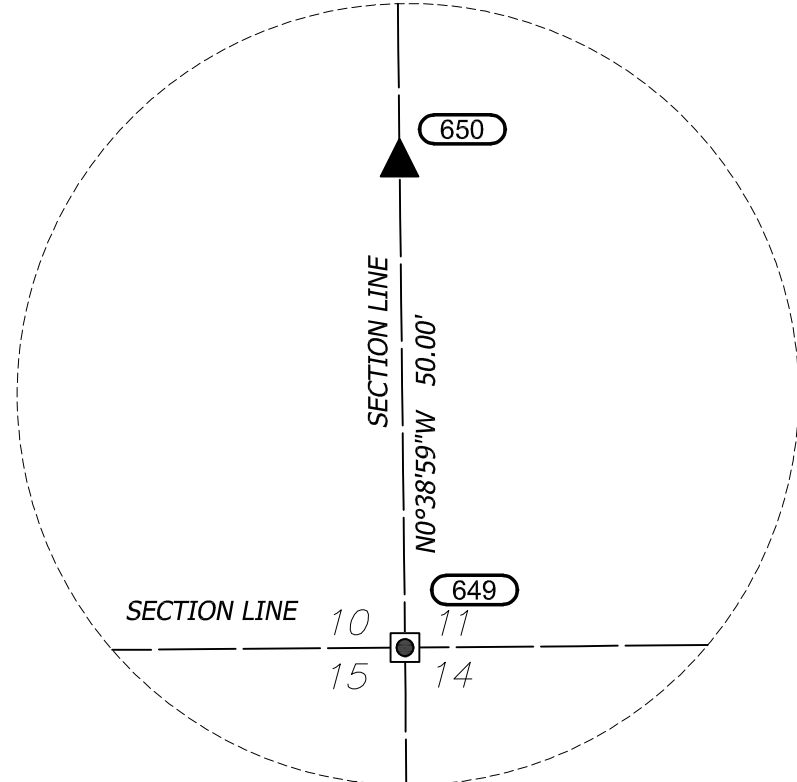
1. The Basis of Bearing for this project is the Arizona Coordinate System, North American Datum (NAD) 1983 (1992), Central Zone 0202, in International Feet, and observed locally between Pima County Control Pt. #3663 (BM #2, a found 3-1/8" brass disk in concrete headwall at the northeast corner of the bridge over Medium Wash) to Pima County Control Pt. #3674 (BM #3, a found 3-1/8" brass disk in concrete headwall at the northeast corner of the bridge over Florida Canyon Wash). Said bearing being North 19°53'16.3" East. Said bearing established on P.C.H.D. Projects 4MCAMW and 4MCAFW and recorded as Survey Book 26 Page 10 (Seq. 20021010193) at the Pima County Recorder's Office.
2. The project surface coordinates are derived from state plane grid values by using the following formulas. A combined scale factor 0.999846886 was used to convert grid coordinates to project surface coordinates. Surface Northing and Easting coordinates are derived by dividing the grid coordinates by 0.999846886 and subtract 200,000 feet from project northings and subtract 1,000,000 feet from project eastings.

		Northing	Easting
"3663"	Grid	288,136.2340	1,020,749.1990
Pt. 33	Surface	88,180.3644	20,905.5139
"3674"	Grid	285,998.5790	1,019,975.8890
Pt. 35	Surface	86,042.3761	20,132.0855

3. Monuments shown as "Set" were set on May 5th, 2026.
4. At the Corner of Sections 10, 11, 14, and 15 (Point 649), found the remains of a mound of stone described as a "rock cairn" in the position shown on Record of Survey Book 26 Page 10 (Seq. 20021010193) lying within the Florida Canyon Wash. Although bearings and distances to quarter corners S10/S15, S10/S11, S15/S14 were not shown on said Record of Survey, the field notes and the results of that survey dated January 2002 were provided by HDR showing the descriptions and locations of those quarter corners. Those monument descriptions and locations were verified on this survey, and therefore the position of the remains of the mound of stone was accepted hereon. This corner was reset by Alta E&I in the same location, monumented as described: Set an iron post 3 feet long, 2 inches in diameter, 20 inches in the ground, with a brass cap marked as shown. A witness corner was also set on line 50' north of the section corner, monumented as described: Set a 1/2" rebar with a 3 1/4" aluminum cap marked as shown.



SECTION CORNER (PT 649) WITNESS CORNER (PT 650)

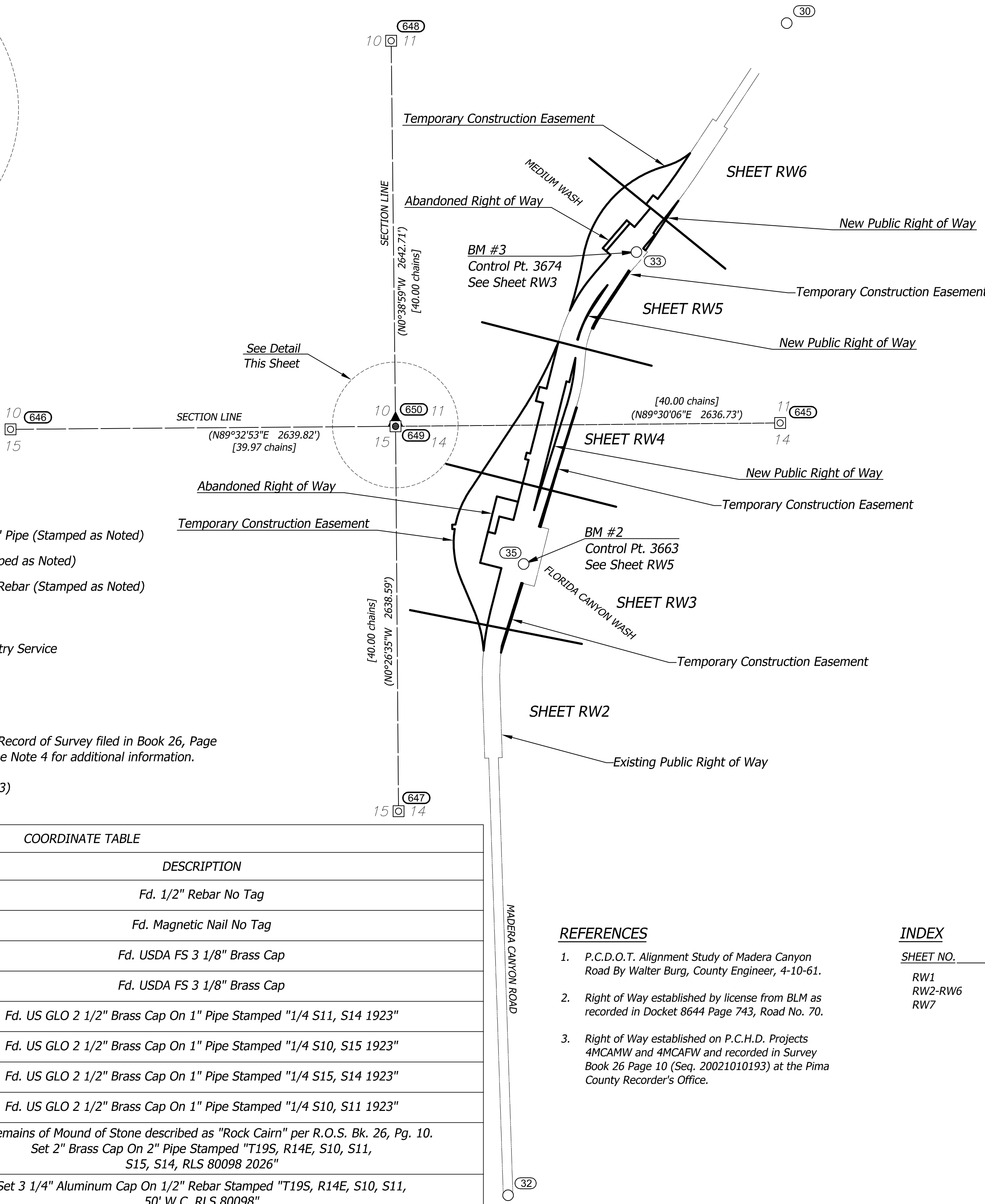


Detail
N.T.S.

LEGEND

- Fd. Monument as Noted
- Set Monument as Noted
- Fd. US GLO 2 1/2" Brass Cap On 1" Pipe (Stamped as Noted)
- Set 2" Brass Cap On 2" Pipe (Stamped as Noted)
- ▲ Set 3 1/4" Aluminum Cap On 1/2" Rebar (Stamped as Noted)
- US GLO US General Land Office
- USDA FS US Department of Agriculture Forestry Service
- ASLD Arizona State Land Department
- (Rad) Radial bearing from radius point
- (XXX.XX) Measured and record data per HDR Record of Survey filed in Book 26, Page 10, Sequence No. 2002-1010193. See Note 4 for additional information.
- [XXX.XX] Record per US GLO Field Notes (1923)

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
30	89749.8471	21935.2654	Fd. 1/2" Rebar No Tag
32	81714.7098	20025.0655	Fd. Magnetic Nail No Tag
33	88180.3644	20905.5139	Fd. USDA FS 3 1/8" Brass Cap
35	86042.3761	20132.0855	Fd. USDA FS 3 1/8" Brass Cap
645	87008.9486	21890.3395	Fd. US GLO 2 1/2" Brass Cap On 1" Pipe Stamped "1/4 S11, S14 1923"
646	86965.1912	16613.9768	Fd. US GLO 2 1/2" Brass Cap On 1" Pipe Stamped "1/4 S10, S15 1923"
647	84347.5073	19274.1131	Fd. US GLO 2 1/2" Brass Cap On 1" Pipe Stamped "1/4 S15, S14 1923"
648	89628.5536	19223.7459	Fd. US GLO 2 1/2" Brass Cap On 1" Pipe Stamped "1/4 S10, S11 1923"
649	86986.0180	19253.7137	Fd. remains of Mound of Stone described as "Rock Cairn" per R.O.S. Bk. 26, Pg. 10. Set 2" Brass Cap On 2" Pipe Stamped "T19S, R14E, S10, S11, S15, S14, RLS 80098 2026"
650	87036.0250	19253.1740	Set 3 1/4" Aluminum Cap On 1/2" Rebar Stamped "T19S, R14E, S10, S11, 50' W.C. RLS 80098"



REFERENCES

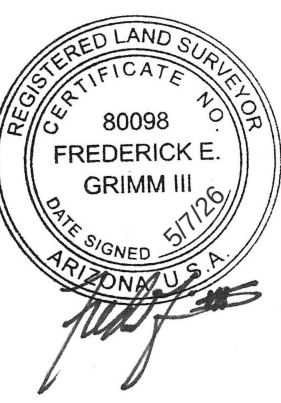
1. P.C.D.O.T. Alignment Study of Madera Canyon Road By Walter Burg, County Engineer, 4-10-61.
2. Right of Way established by license from BLM as recorded in Docket 8644 Page 743, Road No. 70.
3. Right of Way established on P.C.H.D. Projects 4MCAMW and 4MCAFW and recorded in Survey Book 26 Page 10 (Seq. 20021010193) at the Pima County Recorder's Office.

INDEX

SHEET NO.	CONTENTS
RW1	Cover Sheet
RW2-RW6	Plan Sheets
RW7	Calculated Point Table

CERTIFICATION:

I HEREBY CERTIFY THIS PLAT REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY MONUMENTS EXIST AS SHOWN HEREON.



FREDERICK E. GRIMM III AZ RLS. # 80098

PROJECT NO:	241122	Date	Revision	Date
Survey By:	AT/CT	2/2026		
Drawn By:	MCS	5/2026		
Checked By:	EEG	5/2026		

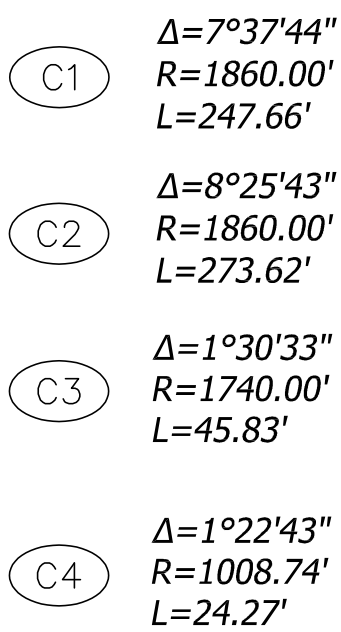
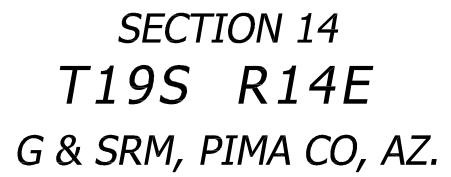


ALTA ENVIRONMENTAL & INFRASTRUCTURE
2025 W. RUTHRAUFF RD., #125
TUCSON, ARIZONA 85705
(520) 398-6651

Pima County Department of Transportation

LOCATED WITHIN SECTIONS 11 & 14, TOWNSHIP 19 SOUTH,
RANGE 14 EAST, G.&S.R.M., PIMA COUNTY, ARIZONA
PROJECT NO. 24041PJ & 24043PJ

	Temporary Construction Easement		Fd. Monument as Noted
	New R/W Area		Set Monument as Noted
	Future R/W Abandon Area		Calculated Point Shown on Sheet RW7
		US GLO	US General Land Office
		USDA FS	US Department of Agriculture Forestry Service
		ASLD	Arizona State Land Department
		(Rad)	Radial bearing from radius point



A.P.N. 304-45-011B
State of Arizona
No Situs Address
Dkt. 9305 Pg 911

PROJECT NO:	241122	Date	Revision	Date
Survey By:	AY/CT	2/2026		
Drawn By:	MCS	5/2026		
Checked By:	FEG	5/2026		



LOCATED WITHIN SECTIONS 11 & 14, TOWNSHIP 19 SOUTH,
RANGE 14 EAST, G.&S.R.M., PIMA COUNTY, ARIZONA
PROJECT NO. 24041PJ & 24043PJ

Pima County Department of Transportation

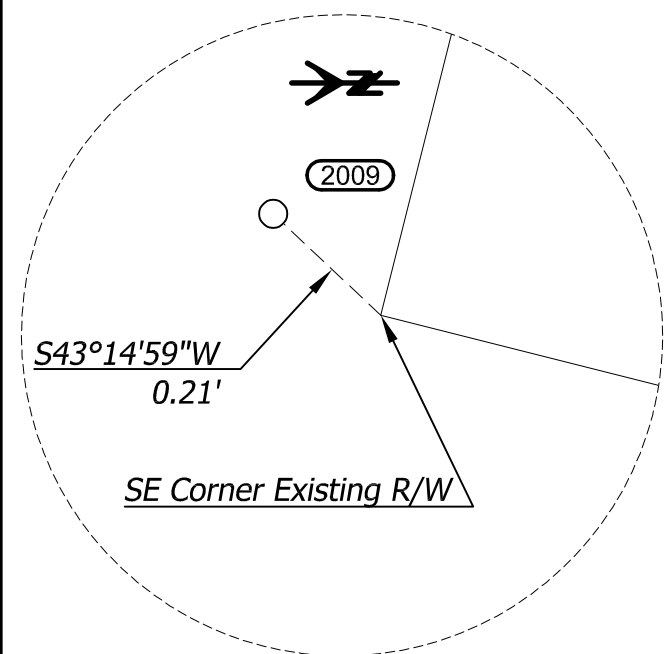
- Temporary Construction Easement
- New R/W Area
- Future R/W Abandon Area

LEGEND

- Fd. Monument as Noted
- Set Monument as Noted
- △ Calculated Point Shown on Sheet RW7
- US GLO US General Land Office
- USDA FS US Department of Agriculture Forestry Service
- ASLD Arizona State Land Department
- (Rad) Radial bearing from radius point

CURVE DATA

C2
 $\Delta=8^{\circ}25'43''$
 $R=1860.00'$
 $L=273.62'$

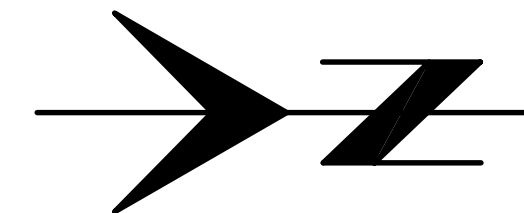


Detail A
N.T.S.

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
35	86042.3761	20132.0855	Fd. USDA FS 3 1/8" Brass Cap
641	86482.4750	20303.3928	Fd. 1/2" Rebar Tagged RLS 16555 "B.M. #5"
2006	85718.0145	19904.3713	Fd. 1/2" Rebar Tagged RLS 16555
2007	85688.6774	20020.7299	Fd. 1/2" Rebar Tagged RLS 16555
2009	85889.3783	20205.2958	Fd. 1/2" Rebar Tagged RLS 16555 Bent SW
2010	86013.6764	19978.9154	Fd. 1/2" Rebar Tagged RLS 16555
2011	86050.3477	19833.4671	Fd. 1/2" Rebar Tagged RLS 16555
2012	86282.2403	20304.4510	Fd. 1/2" Rebar Tagged RLS 16555
2013	86314.0221	20178.3958	Fd. 1/2" Rebar Tagged RLS 16555
2014	86468.4448	20093.5745	Fd. 1/2" Rebar Tagged RLS 16555
2015	86505.1161	19948.1262	Fd. 1/2" Rebar Tagged RLS 16555

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
7030	86299.2382	20237.0330	Set 1/2" Rebar Tagged RLS 80098
7031	85912.0445	20116.1393	Set 1/2" Rebar Tagged RLS 80098
7035	86262.7023	19887.0073	Set 1/2" Rebar Tagged RLS 80098
7036	86250.4785	19935.4901	Set 1/2" Rebar Tagged RLS 80098
7037	86367.8068	19965.0716	Set 1/2" Rebar Tagged RLS 80098
7038	86343.3592	20062.0372	Set 1/2" Rebar Tagged RLS 80098

PARCEL NO.	AREA	TYPE
2-A	349,523 Sq. Ft.	Temporary Construction Easement
2-B	4,277 Sq. Ft.	Temporary Construction Easement
3-A	25,400 Sq. Ft.	Future R/W Abandon Area
3-B	24,689 Sq. Ft.	New R/W Area
3-C	5,730 Sq. Ft.	Temporary Construction Easement



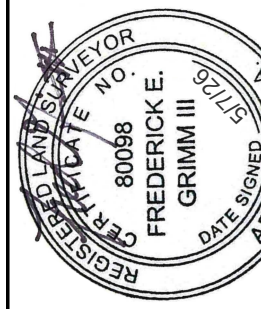
SECTION 14
T19S R14E
G & SRM, PIMA CO, AZ.

ALTA
ENVIRONMENTAL &
INFRASTRUCTURE

LOCATED WITHIN SECTIONS 11 & 14, TOWNSHIP 19 SOUTH,
RANGE 14 EAST, G.&S.R.M., PIMA COUNTY, ARIZONA
PROJECT NO. 24041PJ & 24043PJ

Pima County Department of Transportation

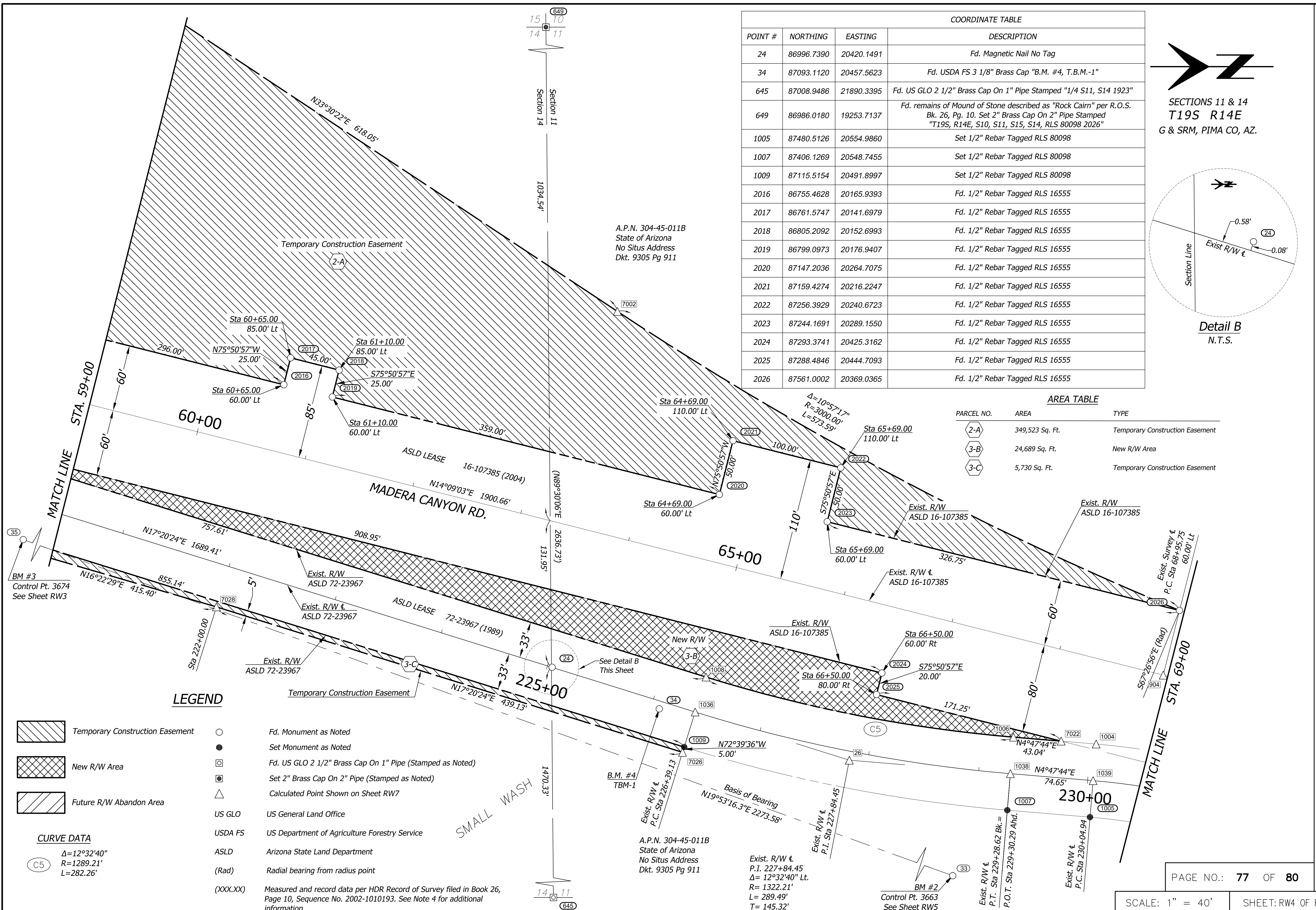
PROJECT NO.	DATE	REVISION	DATE
241122	2/2026		
Survey By: AY/CT	5/2026		
Drawn By: MCS	5/2026		
Checked By: FEG	5/2026		



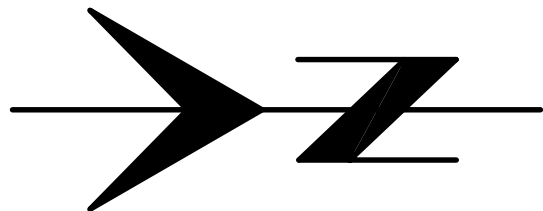
PAGE NO.: 76 OF 80

SCALE: 1" = 40'

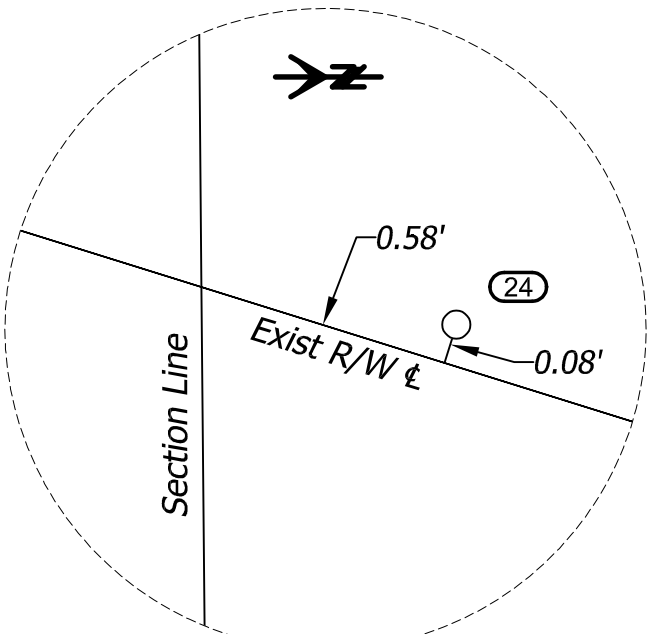
SHEET: RW3 OF RW7



COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
24	86996.7390	20420.1491	Fd. Magnetic Nail No Tag
34	87093.1120	20457.5623	Fd. USDA FS 3 1/8" Brass Cap "B.M. #4, T.B.M.-1"
645	87008.9486	21890.3395	Fd. US GLO 2 1/2" Brass Cap On 1" Pipe Stamped "1/4 S11, S14 1923"
649	86986.0180	19253.7137	Fd. remains of Mound of Stone described as "Rock Cairn" per R.O.S. Bk. 26, Pg. 10. Set 2" Brass Cap On 2" Pipe Stamped "T19S, R14E, S10, S11, S15, S14, RLS 80098 2026"
1005	87480.5126	20554.9860	Set 1/2" Rebar Tagged RLS 80098
1007	87406.1269	20548.7455	Set 1/2" Rebar Tagged RLS 80098
1009	87115.5154	20491.8997	Set 1/2" Rebar Tagged RLS 80098
2016	86755.4628	20165.9393	Fd. 1/2" Rebar Tagged RLS 16555
2017	86761.5747	20141.6979	Fd. 1/2" Rebar Tagged RLS 16555
2018	86805.2092	20152.6993	Fd. 1/2" Rebar Tagged RLS 16555
2019	86799.0973	20176.9407	Fd. 1/2" Rebar Tagged RLS 16555
2020	87147.2036	20264.7075	Fd. 1/2" Rebar Tagged RLS 16555
2021	87159.4274	20216.2247	Fd. 1/2" Rebar Tagged RLS 16555
2022	87256.3929	20240.6723	Fd. 1/2" Rebar Tagged RLS 16555
2023	87244.1691	20289.1550	Fd. 1/2" Rebar Tagged RLS 16555
2024	87293.3741	20425.3162	Fd. 1/2" Rebar Tagged RLS 16555
2025	87288.4846	20444.7093	Fd. 1/2" Rebar Tagged RLS 16555
2026	87561.0002	20369.0365	Fd. 1/2" Rebar Tagged RLS 16555



SECTIONS 11 & 14
T19S R14E
G & SRM, PIMA CO, AZ.



Detail B
N.T.S.

AREA TABLE		
PARCEL NO.	AREA	TYPE
2-A	349,523 Sq. Ft.	Temporary Construction Easement
3-B	24,689 Sq. Ft.	New R/W Area
3-C	5,730 Sq. Ft.	Temporary Construction Easement

LEGEND

- Temporary Construction Easement

New R/W Area

Future R/W Abandon Area
- Fd. Monument as Noted

Set Monument as Noted

Fd. US GLO 2 1/2" Brass Cap On 1" Pipe (Stamped as Noted)

Set 2" Brass Cap On 2" Pipe (Stamped as Noted)

Calculated Point Shown on Sheet RW7

US GLO

US General Land Office

USDA FS

US Department of Agriculture Forestry Service

ASLD

Arizona State Land Department

(Rad)

Radial bearing from radius point

(XXX.XX)

Measured and record data per HDR Record of Survey filed in Book 26, Page 10, Sequence No. 2002-1010193. See Note 4 for additional information.

Pima County Department of Transportation

ALTA

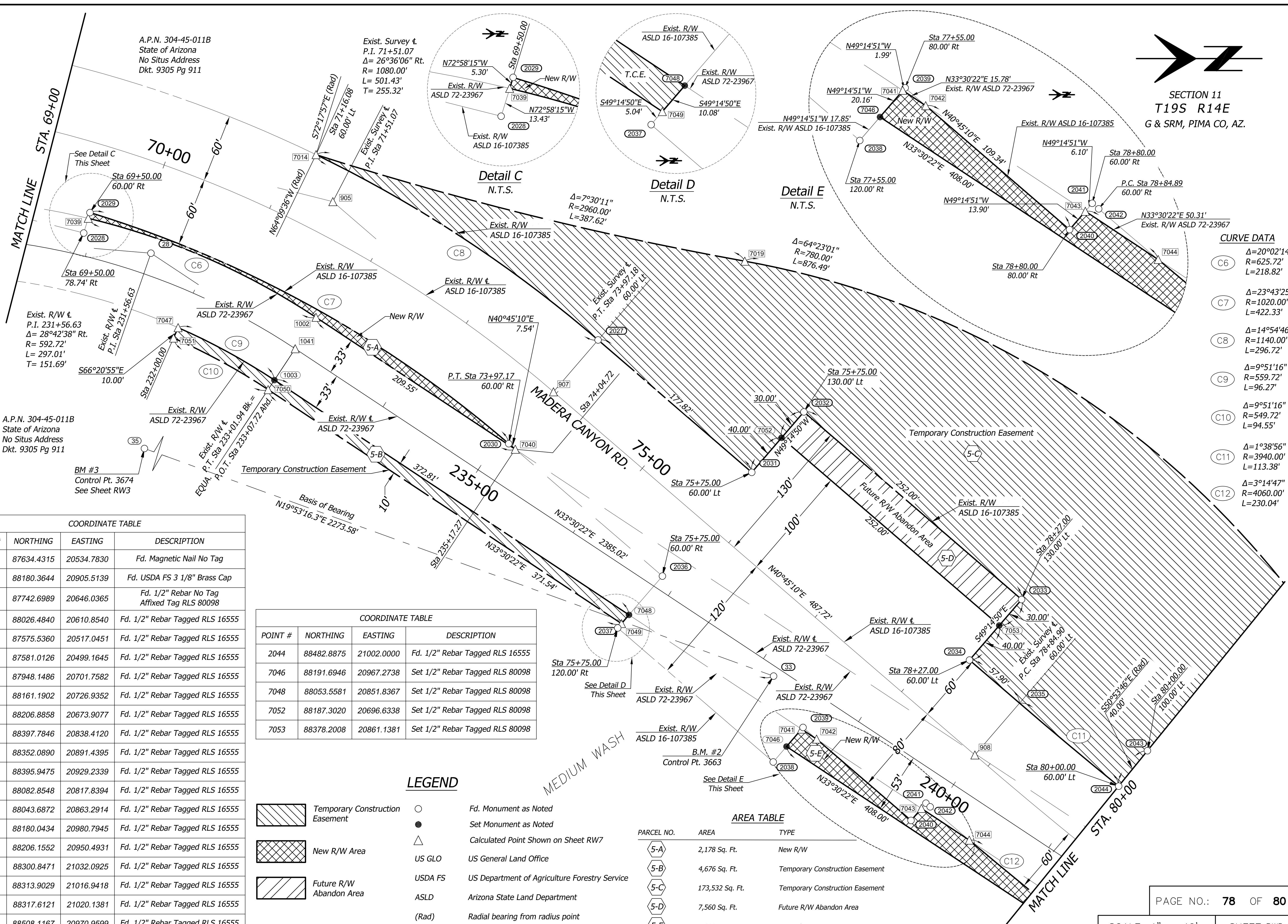
ENVIRONMENTAL & INFRASTRUCTURE

2025 W. RUTHRAUFF RD., #125
TUCSON, ARIZONA 85705
(520) 398-6651



PROJECT NO.	DATE	REVISION	DATE
NO.	241122		
Survey By: AY/CT	2/2026		
Drawn By: MCS	5/2026		
Checked By: FEG	5/2026		

LOCATED WITHIN SECTIONS 11 & 14, TOWNSHIP 19 SOUTH,
RANGE 14 EAST, G.&S.R.M., PIMA COUNTY, ARIZONA
PROJECT NO. 24041PJ & 24043PJ



SECTION 11
T19S R14E
G & SRM, PIMA CO, AZ.

CURVE DATA			
C6	$\Delta=20^{\circ}02'14''$ $R=625.72'$ $L=218.82'$		
C7	$\Delta=23^{\circ}43'25''$ $R=1020.00'$ $L=422.33'$		
C8	$\Delta=14^{\circ}54'46''$ $R=1140.00'$ $L=296.72'$		
C9	$\Delta=9^{\circ}51'16''$ $R=559.72'$ $L=96.27'$		
C10	$\Delta=9^{\circ}51'16''$ $R=549.72'$ $L=94.55'$		
C11	$\Delta=1^{\circ}38'56''$ $R=3940.00'$ $L=113.38'$		
C12	$\Delta=3^{\circ}14'47''$ $R=4060.00'$ $L=230.04'$		

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
28	87634.4315	20534.7830	Fd. Magnetic Nail No Tag
33	88180.3644	20905.5139	Fd. USDA FS 3 1/8" Brass Cap
1003	87742.6989	20646.0365	Fd. 1/2" Rebar No Tag Affixed Tag RLS 80098
2027	88026.4840	20610.8540	Fd. 1/2" Rebar Tagged RLS 16555
2028	87575.5360	20517.0451	Fd. 1/2" Rebar Tagged RLS 16555
2029	87581.0126	20499.1645	Fd. 1/2" Rebar Tagged RLS 16555
2030	87948.1486	20701.7582	Fd. 1/2" Rebar Tagged RLS 16555
2031	88161.1902	20726.9352	Fd. 1/2" Rebar Tagged RLS 16555
2032	88206.8858	20673.9077	Fd. 1/2" Rebar Tagged RLS 16555
2033	88397.7846	20838.4120	Fd. 1/2" Rebar Tagged RLS 16555
2034	88352.0890	20891.4395	Fd. 1/2" Rebar Tagged RLS 16555
2035	88395.9475	20929.2339	Fd. 1/2" Rebar Tagged RLS 16555
2036	88082.8548	20817.8394	Fd. 1/2" Rebar Tagged RLS 16555
2037	88043.6872	20863.2914	Fd. 1/2" Rebar Tagged RLS 16555
2038	88180.0434	20980.7945	Fd. 1/2" Rebar Tagged RLS 16555
2039	88206.1552	20950.4931	Fd. 1/2" Rebar Tagged RLS 16555
2040	88300.8471	21032.0925	Fd. 1/2" Rebar Tagged RLS 16555
2041	88313.9029	21016.9418	Fd. 1/2" Rebar Tagged RLS 16555
2042	88317.6121	21020.1381	Fd. 1/2" Rebar Tagged RLS 16555
2043	88508.1167	20970.9599	Fd. 1/2" Rebar Tagged RLS 16555

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
2044	88482.8875	21002.0000	Fd. 1/2" Rebar Tagged RLS 16555
7046	88191.6946	20967.2738	Set 1/2" Rebar Tagged RLS 80098
7048	88053.5581	20851.8367	Set 1/2" Rebar Tagged RLS 80098
7052	88187.3020	20696.6338	Set 1/2" Rebar Tagged RLS 80098
7053	88378.2008	20861.1381	Set 1/2" Rebar Tagged RLS 80098

Temporary Construction Easement

New R/W Area

Future R/W Abandon Area

Fd. Monument as Noted

Set Monument as Noted

Calculated Point Shown on Sheet RW7

US GLO

US General Land Office

USDA FS

US Department of Agriculture Forestry Service

ASLD

Arizona State Land Department

(Rad)

Radial bearing from radius point

AREA TABLE		
PARCEL NO.	AREA	TYPE
5-A	2,178 Sq. Ft.	New R/W
5-B	4,676 Sq. Ft.	Temporary Construction Easement
5-C	173,532 Sq. Ft.	Temporary Construction Easement
5-D	7,560 Sq. Ft.	Future R/W Abandon Area
5-E	4,833 Sq. Ft.	New R/W Area

Pima County Department of Transportation

PROJECT NO:	241122	Date	Revision	Date
Survey By:	AY/CT	2/2026		
Drawn By:	MCS	5/2026		
Checked By:	FEG	5/2026		



ALTA ENVIRONMENTAL & INFRASTRUCTURE
2025 W. RUTHRAUFF RD., #125
TUCSON, ARIZONA 85705
(520) 398-6651

LOCATED WITHIN SECTIONS 11 & 14, TOWNSHIP 19 SOUTH,
RANGE 14 EAST, G.&S.R.M., PIMA COUNTY, ARIZONA
PROJECT NO. 24041PJ & 24043PJ

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
26	87264.0704	20503.7119	Calculated Existing Centerline PI (ASLD 72-23967)
900	85203.4010	19908.9270	Calculated Existing Centerline PC (ASLD 16-107385)
901	85457.1554	19900.4795	Calculated Existing Centerline PI (ASLD 16-107385)
903	85703.3460	19962.5506	Calculated Existing Centerline PT (ASLD 16-107385)
904	87546.3316	20427.2158	Calculated Existing Centerline PC (ASLD 16-107385)
905	87793.9032	20489.6351	Calculated Existing Centerline PI (ASLD 16-107385)
907	87987.3163	20656.3061	Calculated Existing Centerline PT (ASLD 16-107385)
908	88356.7798	20974.6860	Calculated Existing Centerline PC (ASLD 16-107385)
909	88548.6582	21140.0344	Calculated Existing Centerline PI (ASLD 16-107385)
911	88759.8610	21279.8584	Calculated Existing Centerline PT (ASLD 16-107385)
1002	87779.1325	20591.0039	Calculated Existing R/W (ASLD 72-23967)
1004	87486.0302	20489.2171	Calculated Existing R/W (ASLD 72-23967)
1006	87411.6445	20482.9766	Calculated Existing R/W (ASLD 72-23967)
1008	87135.1861	20428.8992	Calculated Existing R/W (ASLD 72-23967)
1010	85522.5541	19925.3863	Calculated Existing R/W (ASLD 72-23967)
1012	85166.4797	19877.1378	Calculated Existing R/W (ASLD 72-23967)
1013	85168.6756	19943.1013	Calculated Existing R/W (ASLD 72-23967)
1033	85167.5776	19910.1195	Calculated Existing Centerline PC (ASLD 72-23967)
1035	85512.7188	19956.8865	Calculated Existing Centerline PT (ASLD 72-23967)
1036	87125.3508	20460.3994	Calculated Existing Centerline PC (ASLD 72-23967)
1038	87408.8857	20515.8610	Calculated Existing Centerline PT (ASLD 72-23967)
1039	87483.2714	20522.1016	Calculated Existing Centerline PC (ASLD 72-23967)
1041	87760.9157	20618.5202	Calculated Existing Centerline PT (ASLD 72-23967)
2008	85921.3117	20079.3832	Calculated Existing R/W (ASLD 16-107385)
7002	87055.4519	20099.9080	Calculated T.C.E.
7004	86540.1086	19758.7320	Calculated T.C.E.
7006	86312.6547	19664.6506	Calculated T.C.E.
7007	86311.4254	19641.3520	Calculated T.C.E.
7008	86281.4671	19642.9327	Calculated T.C.E.
7009	86282.3290	19659.2682	Calculated T.C.E.

COORDINATE TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
7010	85935.5161	19702.3224	Calculated T.C.E.
7011	85722.6703	19791.9924	Calculated T.C.E.
7013	85448.7434	19857.1989	Calculated T.C.E.
7014	87779.1760	20448.4260	Calculated T.C.E.
7015	88857.6137	21272.6170	Calculated T.C.E.
7017	88768.9306	21102.0966	Calculated T.C.E.
7019	88155.0988	20541.7999	Calculated T.C.E.
7022	87454.5340	20486.5747	Calculated New R/W
7024	86412.0034	20203.0995	Calculated New R/W
7026	87114.0252	20496.6724	Calculated T.C.E.
7028	86694.8520	20365.7938	Calculated T.C.E.
7029	86296.3003	20248.6854	Calculated T.C.E.
7033	85434.0796	19976.3326	Calculated T.C.E.
7034	85909.8408	20124.8798	Calculated T.C.E.
7039	87579.4594	20504.2358	Calculated New R/W
7040	87953.8598	20706.6797	Calculated New R/W
7041	88204.8557	20952.0011	Calculated Existing R/W Intersection
7042	88218.0148	20960.7130	Calculated Existing R/W Intersection
7043	88309.9234	21021.5598	Calculated Existing R/W Intersection
7044	88351.8700	21049.3300	Calculated Existing R/W Intersection
7047	87658.2638	20600.0417	Calculated T.C.E.
7049	88046.9776	20859.4730	Calculated T.C.E.
7050	87737.1786	20654.3748	Calculated T.C.E.
7051	87654.2521	20609.2017	Calculated T.C.E.

PROJECT NO:	241122	Date	Revision	Date
Survey By:	AY/CT	2/2026		
Drawn By:	MCS	5/2026		
Checked By:	EEG	5/2026		