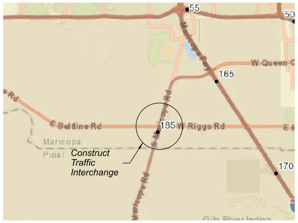
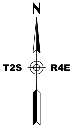
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

SCHEMATIC PLAN

STATE HIGHWAY
MARICOPA ROAD
SR 347


55
50
W Queen C
165
E Beltine Rd
185
W Riggs Rd
Maricopa
Pinal
Construct
Traffic
Interchange
170
Maricopa Rd
Gila River Indian

KEY MAP
NOT TO SCALE



RIGGS ROAD TI AT SR 347
PROJECT NO. 347 MA 184 F0476 01L

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=678,100
Y=807,400

DESIGN DATA

2022 AADT = 53,343
2050 AADT = 77,163

Design Speed

SR 347 = 70 MPH
Riggs Rd:
- *Outside Project Limits = 55 MPH*
- *Within Project Limits = 45 MPH*

Ramps:
- *Body = 50 MPH*
- *Entrance at Gore = 60 MPH*
- *Exit at Gore = 65 MPH*
- *Crossroad Terminal = 35 MPH*

LENGTH OF PROJECT

SR 347 Cst CL

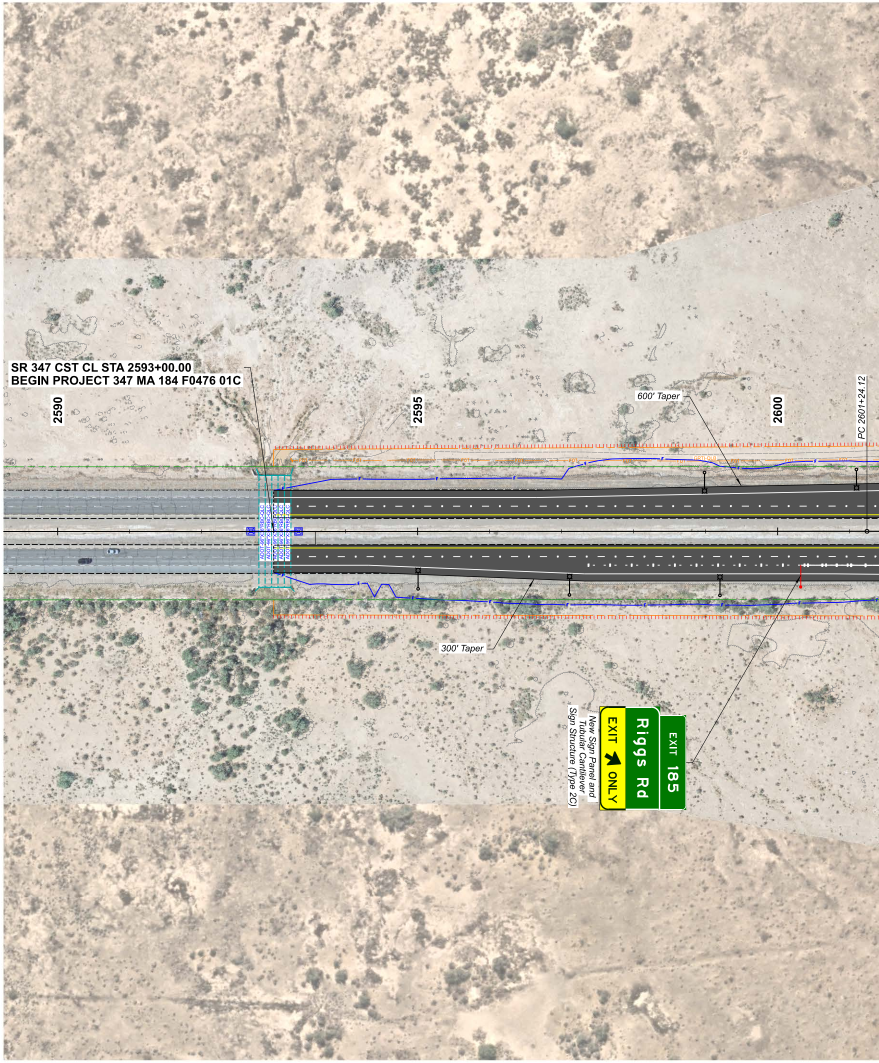
Sta 2593+00.00	*to Sta 2627+91.23*	*= 3,491.23'*	
Sta 2627+91.23	*to Sta 2630+39.43*	*= 248.20'*	*(Bridge Exception)*
Sta 2630+39.43	*to Sta 2656+51.59 Bk*	*= 2,612.16'*	
Sta 2656+44.75 Ahd	*to Sta 2670+88.86*	*= 1,444.11'*	
	Gross Length	*= 7,795.70' - 1.48 Miles*	
	Net Length	*= 7,547.50' - 1.43 Miles*	
	Mile Post 184.60 to 186.08		

Riggs Rd Cst CL

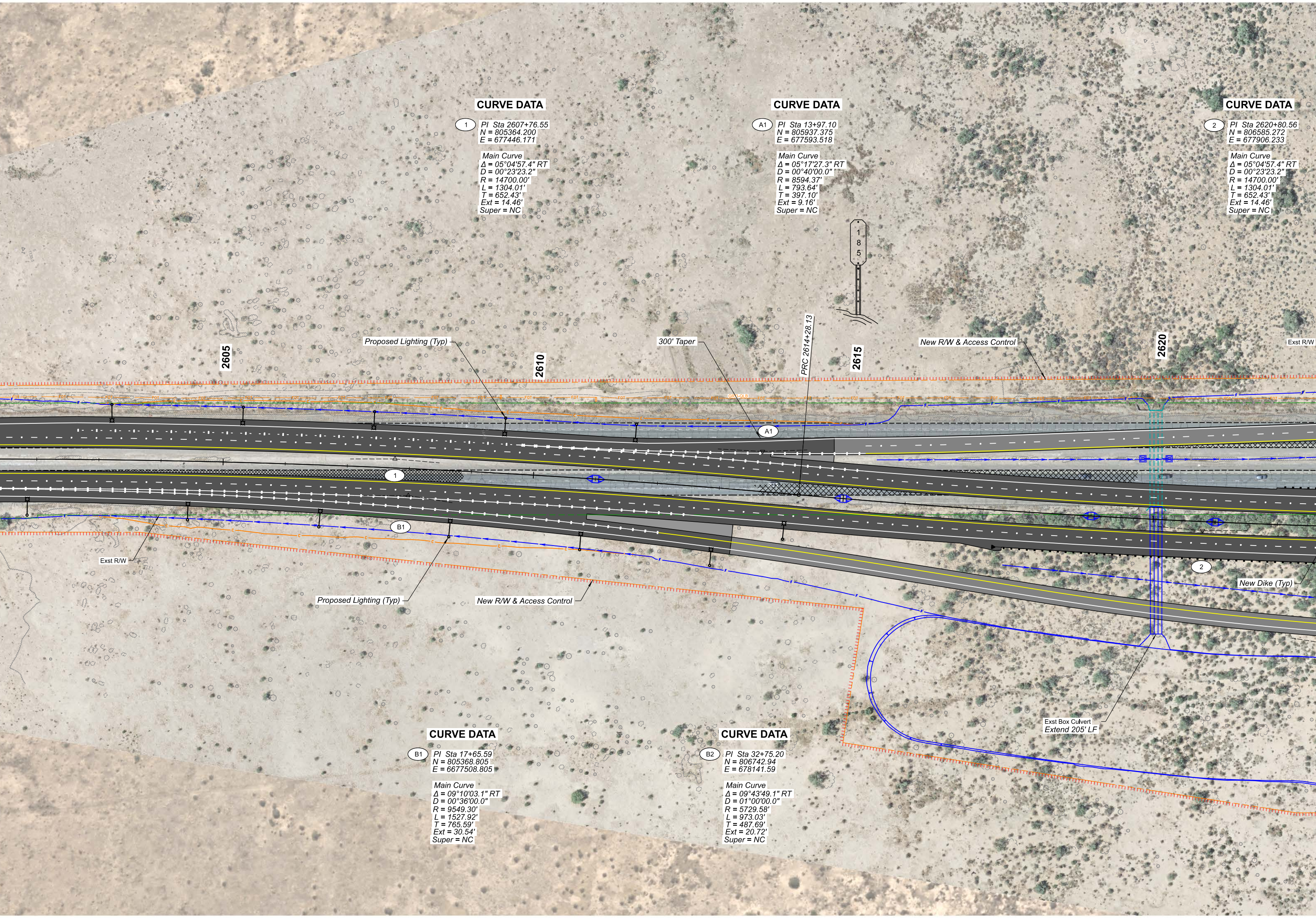
Sta 33+99.34	*to Sta 66+00.40*	*= 3,201.06'*
	Gross & Net Length	*= 3,201.06' - 0.61 Miles*

LEGEND

▨	*PCCP Pavement*	— — –	*Existing Right-of-Way*
▨	*AC Pavement*	— — –	*New Right-of-Way*
▨	*Concrete Sidewalk*	┆┆┆┆┆	*New Access Control*
▨	*Concrete Slope Paving*	~~~	*Proposed Retaining Wall*
🟦	*Proposed Bridge*	—f—f—	*Fill Limits*
🟩	*Raised Median*	—c—c—	*Cut Limits*
🟥	*GRICUA Substation*	- - - - -	*TCE*
▨	*Remove Existing Pavement*		


SR 347 CST CL STA 2593+00.00
BEGIN PROJECT 347 MA 184 F0476 01C
2590
2595
600' Taper
2600
PC 2601+24.12
300' Taper
New Sign Panel and
Tubular Cantilever
Sign Structure (Type 2C)
EXIT 185
Riggs Rd
EXIT ONLY

FINAL
DCR
Review
NOT FOR
CONSTRUCTION
OR RECORDING



2605
2610
2615
2620
PRC 2614+28.13
Proposed Lighting (Typ)
300' Taper
New R/W & Access Control
Exst R/W
1
8
5
A1
1
B1
2
Exst R/W
Proposed Lighting (Typ)
New R/W & Access Control
New Dike (Typ)
Exst Box Culvert
Extend 205' LF

CURVE DATA

① PI Sta 2607+76.55
N = 805364.200
E = 677446.171

Main Curve
Δ = 05°04'57.4" RT
D = 00°23'23.2"
R = 14700.00'
L = 1304.01'
T = 652.43'
Ext = 14.46'
Super = NC

CURVE DATA

(A1) PI Sta 13+97.10
N = 805937.375
E = 677593.518

Main Curve
Δ = 05°17'27.3" RT
D = 00°40'00.0"
R = 8594.37'
L = 793.64'
T = 397.10'
Ext = 9.16'
Super = NC

CURVE DATA

② PI Sta 2620+80.56
N = 806585.272
E = 677906.233

Main Curve
Δ = 05°04'57.4" RT
D = 00°23'23.2"
R = 14700.00'
L = 1304.01'
T = 652.43'
Ext = 14.46'
Super = NC

CURVE DATA

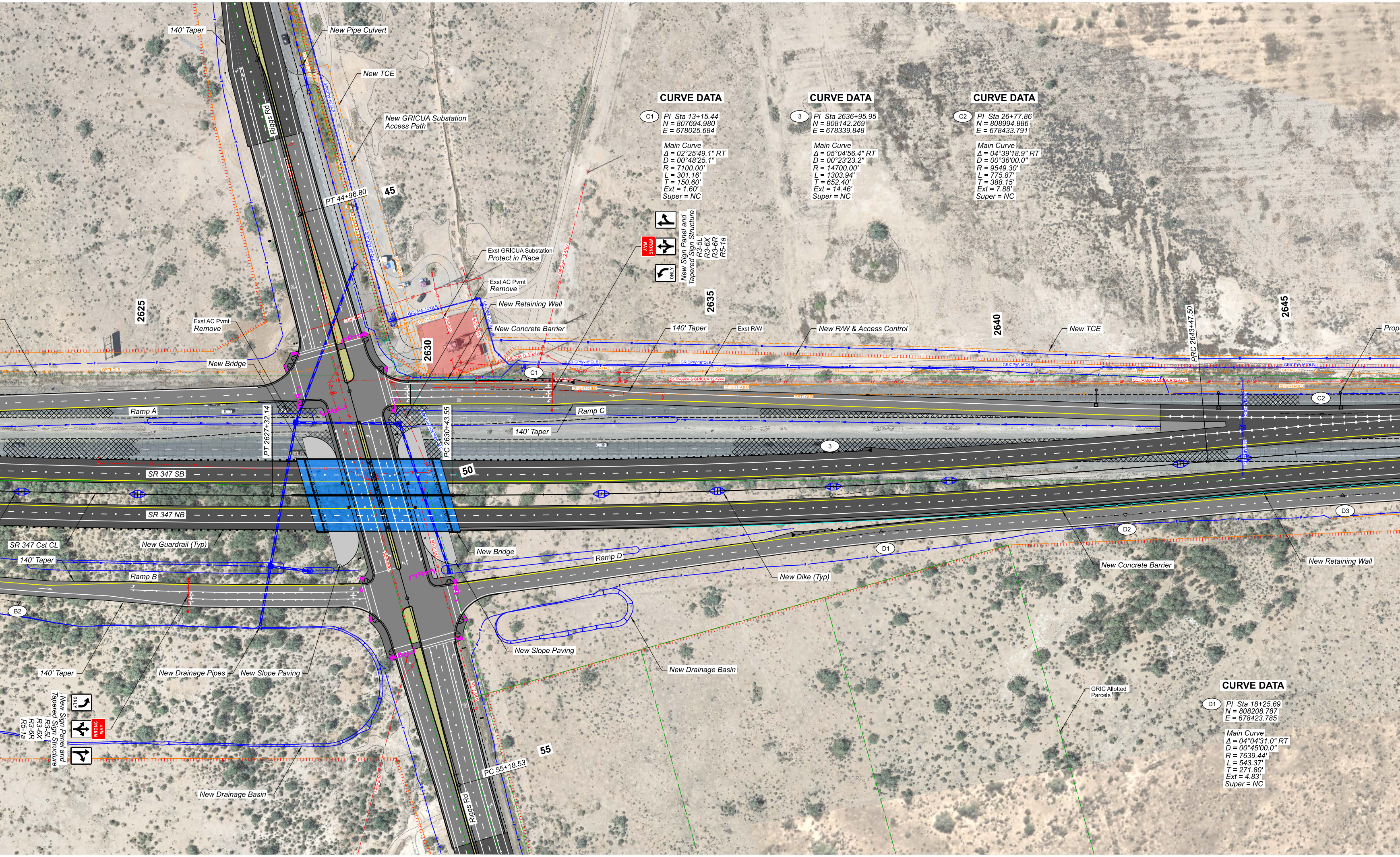
(B1) PI Sta 17+65.59
N = 805368.805
E = 6677508.805

Main Curve
Δ = 09°10'03.1" RT
D = 00°36'00.0"
R = 9549.30'
L = 1527.92'
T = 765.59'
Ext = 30.54'
Super = NC

CURVE DATA

(B2) PI Sta 32+75.20
N = 806742.94
E = 678141.59

Main Curve
Δ = 09°43'49.1" RT
D = 01°00'00.0"
R = 5729.58'
L = 973.03'
T = 487.69'
Ext = 20.72'
Super = NC


140' Taper
New Pipe Culvert
New TCE
Riggs Rd
New GRICUA Substation
Access Path
PT 44+96.80
45
Exst GRICUA Substation
Protect in Place
Exst AC Pvmt
Remove
New Retaining Wall
New Concrete Barrier
New Sign Panel and
Tapered Sign Structure
R3-5L
R3-6X
R3-6R
R5-1a
WRONG WAY
ONLY
2625
2630
2635
2640
2645
Exst AC Pvmt
Remove
New Bridge
140' Taper
Exst R/W
New R/W & Access Control
New TCE
PRC 2643+47.50
Prope
C1
C2
Ramp A
Ramp C
140' Taper
PT 2627+32.14
PC 2630+43.55
3
SR 347 SB
50
SR 347 NB
D3
D2
D1
SR 347 Cst CL
New Guardrail (Typ)
New Bridge
Ramp D
New Concrete Barrier
New Retaining Wall
140' Taper
Ramp B
New Dike (Typ)
B2
New Slope Paving
New Drainage Basin
140' Taper
New Drainage Pipes
New Slope Paving
GRIC Allotted
Parcels
New Sign Panel and
Tapered Sign Structure
R3-5L
R3-6X
R3-6R
R5-1a
WRONG WAY
ONLY
55
PC 55+18.53
Riggs Rd
New Drainage Basin

CURVE DATA

C1 PI Sta 13+15.44
N = 807694.980
E = 678025.684

Main Curve
Δ = 02°25'49.1" RT
D = 00°48'25.1"
R = 7100.00'
L = 301.16'
T = 150.60'
Ext = 1.60'
Super = NC

CURVE DATA

3 PI Sta 2636+95.95
N = 808142.269
E = 678339.848

Main Curve
Δ = 05°04'56.4" RT
D = 00°23'23.2"
R = 14700.00'
L = 1303.94'
T = 652.40'
Ext = 14.46'
Super = NC

CURVE DATA

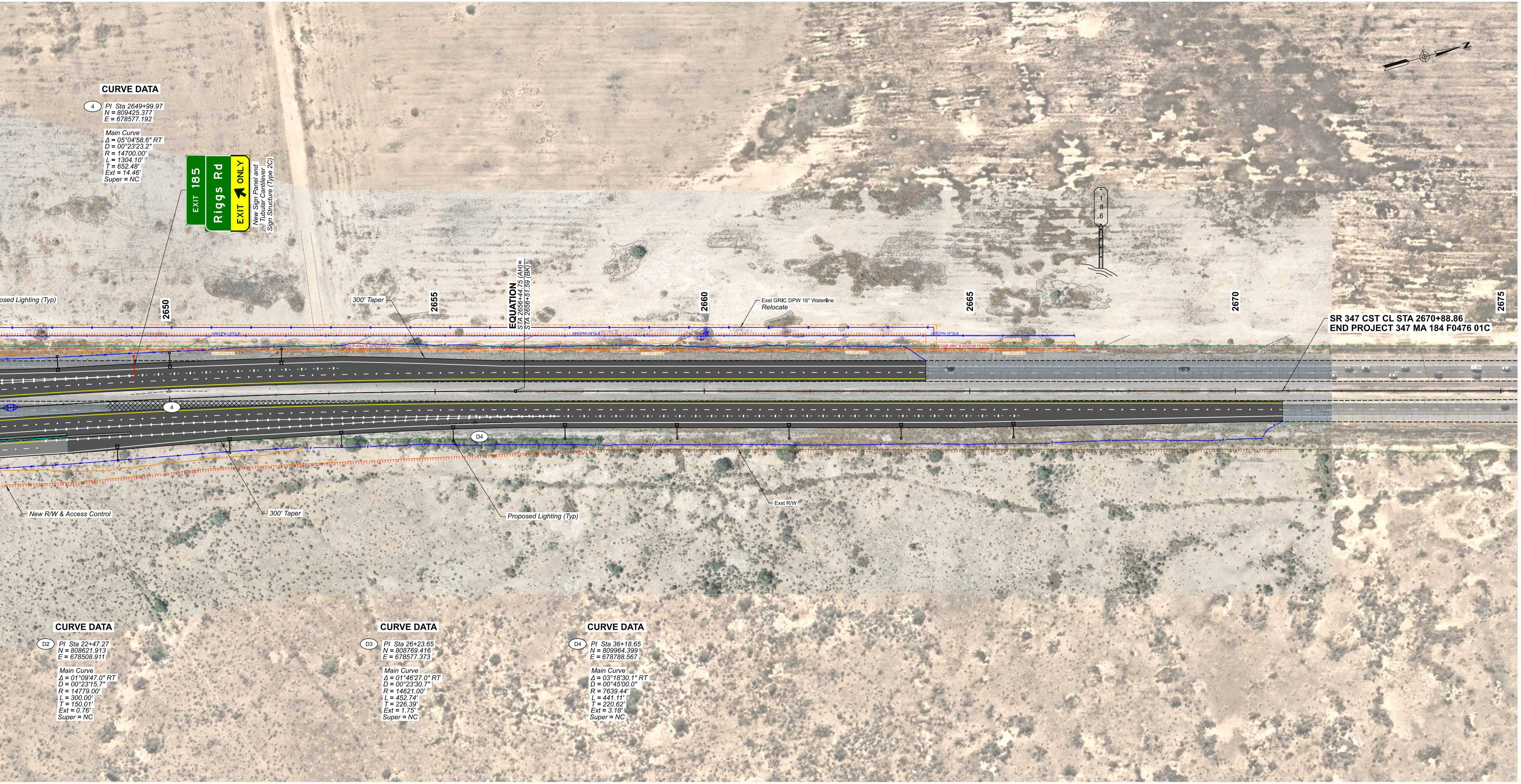
C2 PI Sta 26+77.86
N = 808994.886
E = 678433.791

Main Curve
Δ = 04°39'18.9" RT
D = 00°36'00.0"
R = 9549.30'
L = 775.87'
T = 388.15'
Ext = 7.88'
Super = NC

CURVE DATA

D1 PI Sta 18+25.69
N = 808208.787
E = 678423.785

Main Curve
Δ = 04°04'31.0" RT
D = 00°45'00.0"
R = 7639.44'
L = 543.37'
T = 271.80'
Ext = 4.83'
Super = NC


EXIT 185
Riggs Rd
EXIT ONLY
New Sign Panel and Tubular Cantilever Sign Structure (Type 2C)
osed Lighting (Typ)
2650
300' Taper
2655
EQUATION
STA 2656+44.75 (AH)=
STA 2656+51.59 (BK)
2660
Exst GRIC DPW 16" Waterline
Relocate
2665
2670
2675
SR 347 CST CL STA 2670+88.86
END PROJECT 347 MA 184 F0476 01C
186
GRICPW-16"QLB
GRTI-QLB
(2) GRTI-QLB
SCIP 69kV & GRICUA 12.47kV
FOT
OP
4
D4
New R/W & Access Control
300' Taper
Proposed Lighting (Typ)
Exst R/W
N

CURVE DATA

④ PI Sta 2649+99.97
N = 809425.377
E = 678577.192

Main Curve
Δ = 05°04'58.6" RT
D = 00°23'23.2"
R = 14700.00'
L = 1304.10'
T = 652.48'
Ext = 14.46'
Super = NC

CURVE DATA

D2 PI Sta 22+47.27
N = 808621.913
E = 678508.911

Main Curve
Δ = 01°09'47.0" RT
D = 00°23'15.7"
R = 14779.00'
L = 300.00'
T = 150.01'
Ext = 0.76'
Super = NC

CURVE DATA

D3 PI Sta 26+23.65
N = 808769.416
E = 678577.373

Main Curve
Δ = 01°46'27.0" RT
D = 00°23'30.7"
R = 14621.00'
L = 452.74'
T = 226.39'
Ext = 1.75'
Super = NC

CURVE DATA

D4 PI Sta 36+18.65
N = 809964.399
E = 678788.567

Main Curve
Δ = 03°18'30.1" RT
D = 00°45'00.0"
R = 7639.44'
L = 441.11'
T = 220.62'
Ext = 3.18'
Super = NC

FINAL
DCR
Review
NOT FOR
CONSTRUCTION
OR RECORDING

	NAME	DATE
DESIGN	ARH	09/24
DRAWN	TNS	09/24
CHECKED	RSC	09/24

Kimley»Horn
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

APPENDIX E
RECOMMENDED ALTERNATIVE
SR 347 PLAN

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	347 MA 184	NFA	1	3	

LOCATION RIGGS ROAD TI AT SR 347

TRACS NO. F0476 01L

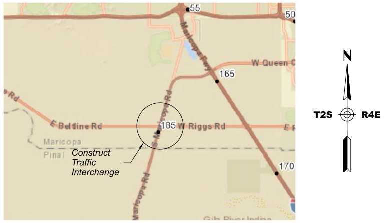
ADOT

SHEET OF
____ OF____

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

SCHEMATIC PLAN

STATE HIGHWAY
MARICOPA ROAD
SR 347


55
50
165
W Queen C
E Beltline Rd
185
W Riggs Rd
Maricopa
Pinal
Maricopa Rd
170
N
T2S
R4E
Construct Traffic Interchange

KEY MAP
NOT TO SCALE

RIGGS ROAD TI AT SR 347
PROJECT NO. 347 MA 184 F0476 01L

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=678,100
Y=807,400

DESIGN DATA

2022 AADT = 53,343
2050 AADT = 77,163

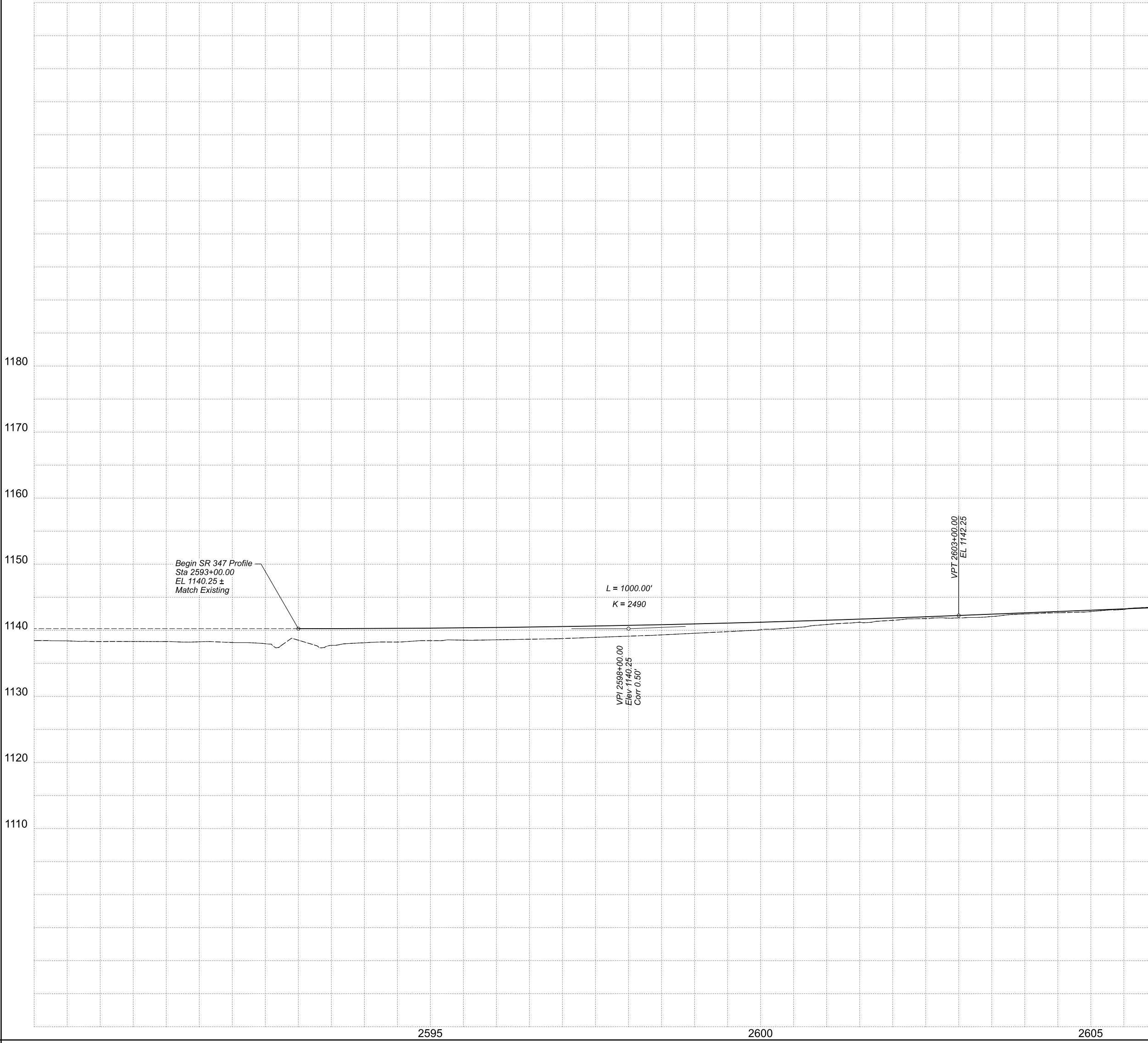
Design Speed

SR 347 = 70 MPH
Riggs Rd:
  Outside Project Limits = 55 MPH
  Within Project Limits = 45 MPH
Ramps:
  Body = 50 MPH
  Entrance at Gore = 60 MPH
  Exit at Gore = 65 MPH
  Crossroad Terminal = 35 MPH

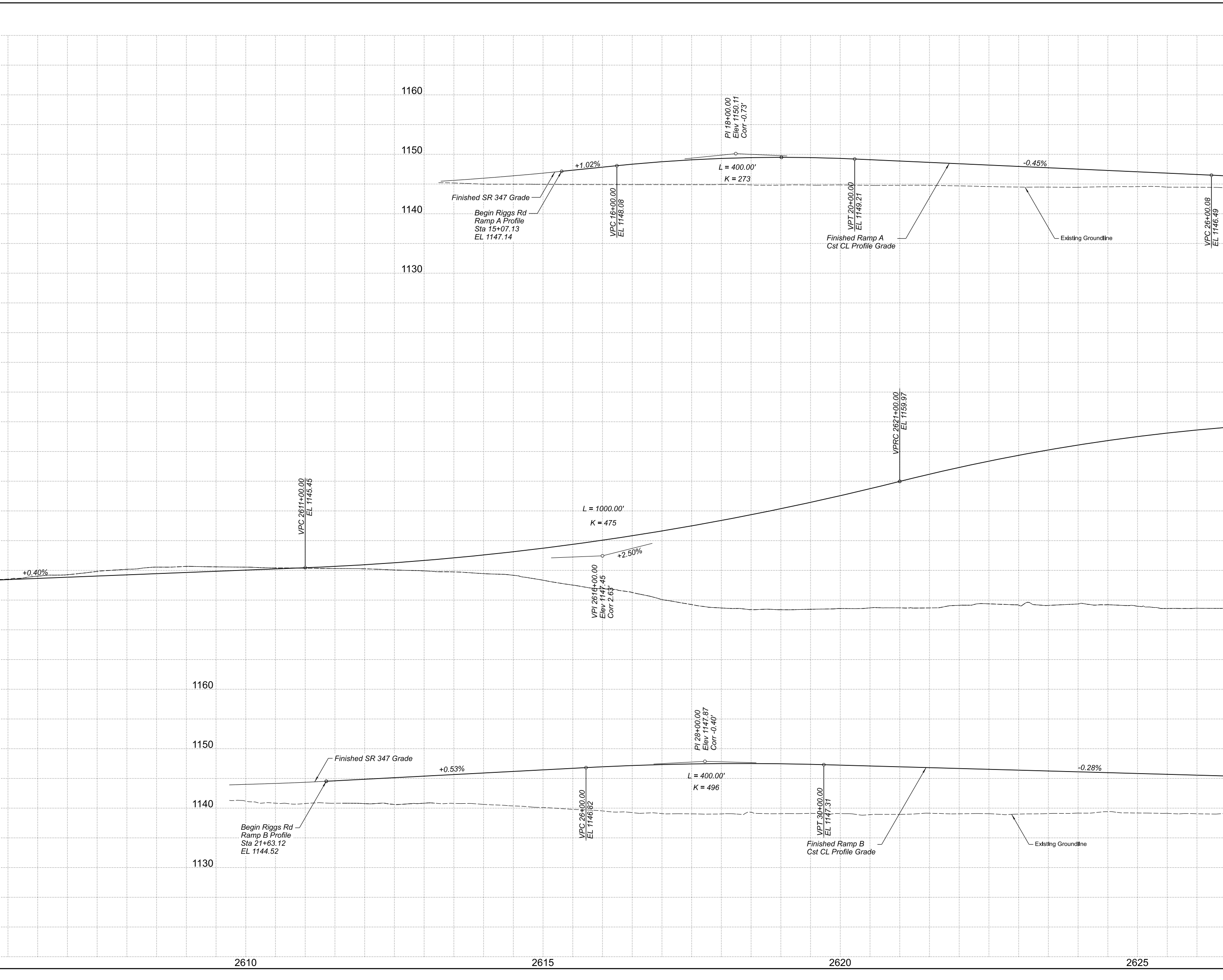
LENGTH OF PROJECT

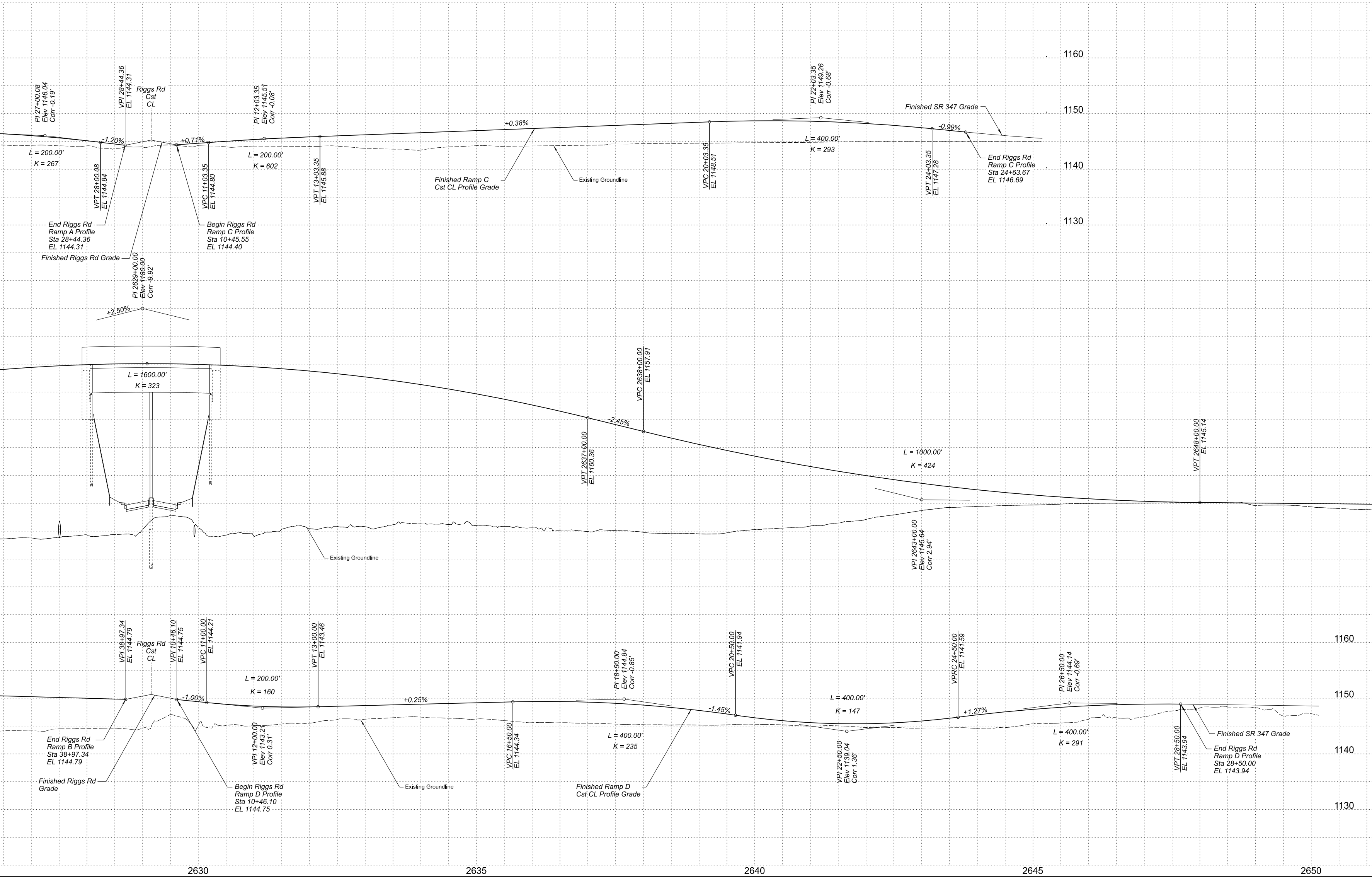
SR 347 Cst CL
Sta 2593+00.00 to Sta 2627+91.23 = 3,491.23'
Sta 2627+91.23 to Sta 2630+39.43 = 248.20' (Bridge Exception)
Sta 2630+39.43 to Sta 2656+51.59 Bk = 2,612.16'
Sta 2656+44.75 Ahd to Sta 2670+88.86 = 1,444.11'
  Gross Length = 7,795.70' - 1.48 Miles
  Net Length = 7,547.50' - 1.43 Miles
  Mile Post 184.60 to 186.08

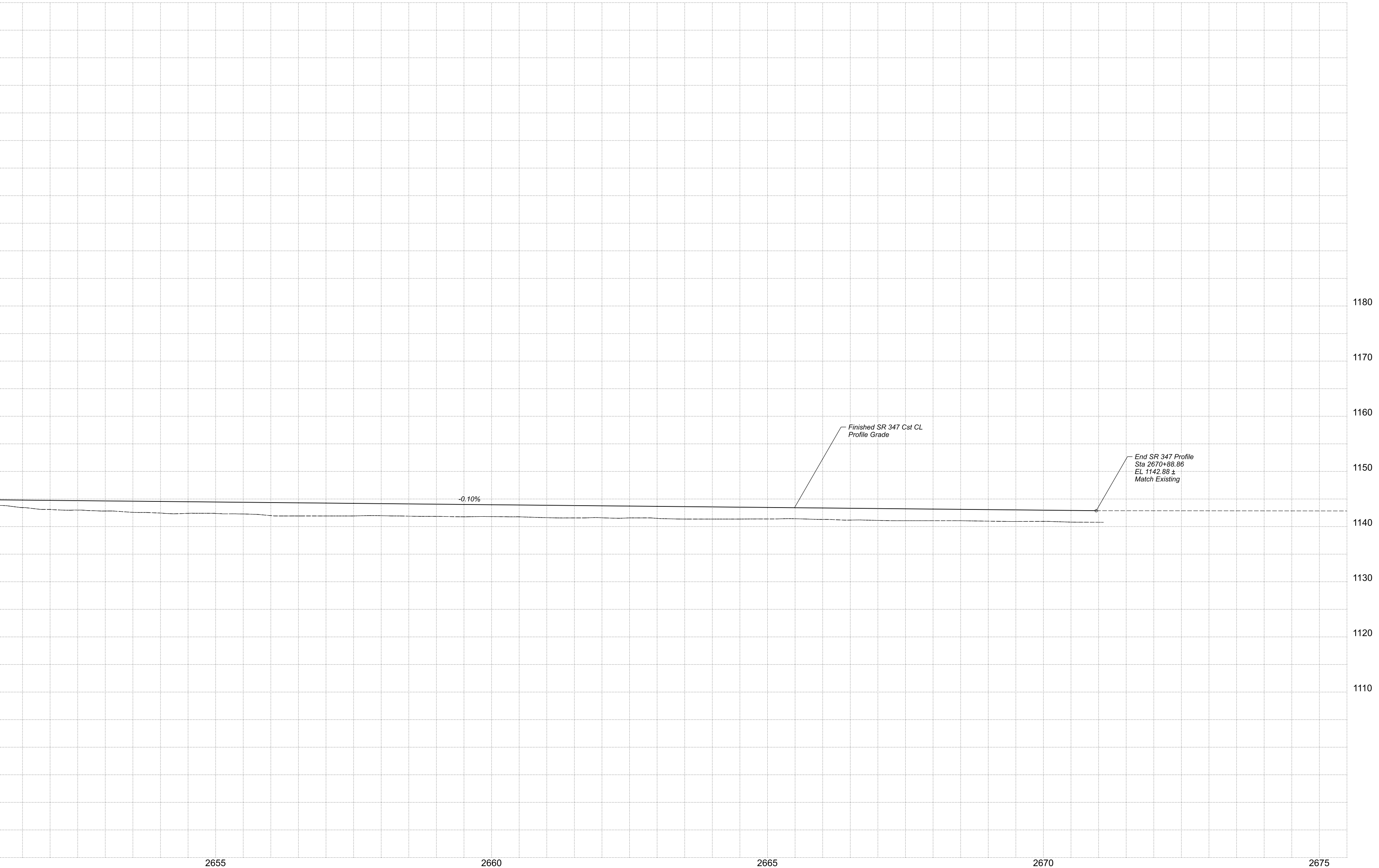
Riggs Rd Cst CL
Sta 33+99.34 to Sta 66+00.40 = 3,201.06'
  Gross & Net Length = 3,201.06' - 0.61 Miles



FINAL
DCR
Review
NOT FOR
CONSTRUCTION
OR RECORDING


1160
1150
1140
1130
PI 18+00.00
Elev 1150.11
Corr -0.73'
+1.02%
L = 400.00'
K = 273
-0.45%
Finished SR 347 Grade
Begin Riggs Rd
Ramp A Profile
Sta 15+07.13
EL 1147.14
VPC 16+00.00
EL 1148.08
VPT 20+00.00
EL 1149.21
Finished Ramp A
Cst CL Profile Grade
Existing Groundline
VPC 26+00.08
EL 1146.49
VPRC 2621+00.00
EL 1159.97
VPC 2611+00.00
EL 1145.45
L = 1000.00'
K = 475
+0.40%
+2.50%
VPI 2616+00.00
Elev 1147.45
Corr 2.63'
1160
1150
1140
1130
PI 28+00.00
Elev 1147.87
Corr -0.40'
Finished SR 347 Grade
+0.53%
L = 400.00'
K = 496
-0.28%
Begin Riggs Rd
Ramp B Profile
Sta 21+63.12
EL 1144.52
VPC 26+00.00
EL 1146.82
VPT 30+00.00
EL 1147.31
Finished Ramp B
Cst CL Profile Grade
Existing Groundline
2610
2615
2620
2625


PI 27+00.08
Elev 1146.04
Corr -0.19'
VPI 28+44.36
EL 1144.31
Riggs Rd
Cst
CL
-1.20%
+0.71%
L = 200.00'
K = 267
VPT 28+00.08
EL 1144.84
VPC 11+03.35
EL 1144.80
PI 12+03.35
Elev 1145.51
Corr -0.08'
L = 200.00'
K = 602
VPT 13+03.35
EL 1145.88
+0.38%
Finished Ramp C
Cst CL Profile Grade
Existing Groundline
VPC 20+03.35
EL 1148.51
PI 22+03.35
Elev 1149.26
Corr -0.68'
L = 400.00'
K = 293
-0.99%
Finished SR 347 Grade
VPT 24+03.35
EL 1147.28
End Riggs Rd
Ramp C Profile
Sta 24+63.67
EL 1146.69
1160
1150
1140
1130
End Riggs Rd
Ramp A Profile
Sta 28+44.36
EL 1144.31
Begin Riggs Rd
Ramp C Profile
Sta 10+45.55
EL 1144.40
Finished Riggs Rd Grade
PI 2629+00.00
Elev 1180.00
Corr -9.92'
+2.50%
L = 1600.00'
K = 323
VPC 2638+00.00
EL 1157.91
-2.45%
VPT 2637+00.00
EL 1160.36
L = 1000.00'
K = 424
VPT 2648+00.00
EL 1145.14
VPI 2643+00.00
Elev 1145.64
Corr 2.94'
Existing Groundline
VPI 38+97.34
EL 1144.79
Riggs Rd
Cst
CL
VPI 10+46.10
EL 1144.75
VPC 11+00.00
EL 1144.21
-1.00%
L = 200.00'
K = 160
VPT 13+00.00
EL 1143.46
+0.25%
PI 18+50.00
Elev 1144.84
Corr -0.85'
VPC 20+50.00
EL 1141.94
-1.45%
L = 400.00'
K = 147
VPRC 24+50.00
EL 1141.59
+1.27%
PI 26+50.00
Elev 1144.14
Corr -0.69'
1160
1150
1140
1130
End Riggs Rd
Ramp B Profile
Sta 38+97.34
EL 1144.79
Finished Riggs Rd
Grade
VPI 12+00.00
Elev 1143.21
Corr 0.31'
Begin Riggs Rd
Ramp D Profile
Sta 10+46.10
EL 1144.75
Existing Groundline
VPC 16+50.00
EL 1144.34
L = 400.00'
K = 235
Finished Ramp D
Cst CL Profile Grade
VPI 22+50.00
Elev 1139.04
Corr 1.36'
L = 400.00'
K = 291
VPT 28+50.00
EL 1143.94
Finished SR 347 Grade
End Riggs Rd
Ramp D Profile
Sta 28+50.00
EL 1143.94
2630
2635
2640
2645
2650



FINAL
DCR
Review
NOT FOR
CONSTRUCTION
OR RECORDING

	NAME	DATE
DESIGN	ARH	09/24
DRAWN	TNS	09/24
CHECKED	RSC	09/24

Kimley»Horn
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP
APPENDIX E
RECOMMENDED ALTERNATIVE
SR 347 & RAMPS
PROFILES

ROUTE
MILEPOST
STRUCTURE NO.

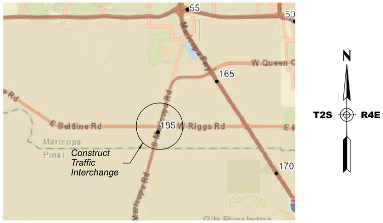
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	347 MA 184	NFA	2	3	

LOCATION RIGGS ROAD TI AT SR 347
SHEET OF
TRACS NO. F0476 01L
ADOT
____ OF____

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

SCHEMATIC PLAN

STATE HIGHWAY
MARICOPA ROAD
SR 347


55
50
W Queen C
165
Beltline Rd
185
W Riggs Rd
Maricopa
Pinal
Construct
Traffic
Interchange
170
Maricopa Rd
Gila River Indian
N
T2S
R4E

KEY MAP
NOT TO SCALE

RIGGS ROAD TI AT SR 347
PROJECT NO. 347 MA 184 F0476 01L

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=678,100
Y=807,400

DESIGN DATA

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2050 AADT = 77,163

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SR 347 = 70 MPH
Riggs Rd:
- *Outside Project Limits = 55 MPH*
- *Within Project Limits = 45 MPH*

Ramps:
- *Body = 50 MPH*
- *Entrance at Gore = 60 MPH*
- *Exit at Gore = 65 MPH*
- *Crossroad Terminal = 35 MPH*

LENGTH OF PROJECT

SR 347 Cst CL
Sta 2593+00.00 to Sta 2627+91.23 = 3,491.23'
Sta 2627+91.23 to Sta 2630+39.43 = 248.20' (Bridge Exception)
Sta 2630+39.43 to Sta 2656+51.59 Bk = 2,612.16'
Sta 2656+44.75 Ahd to Sta 2670+88.86 = 1,444.11'
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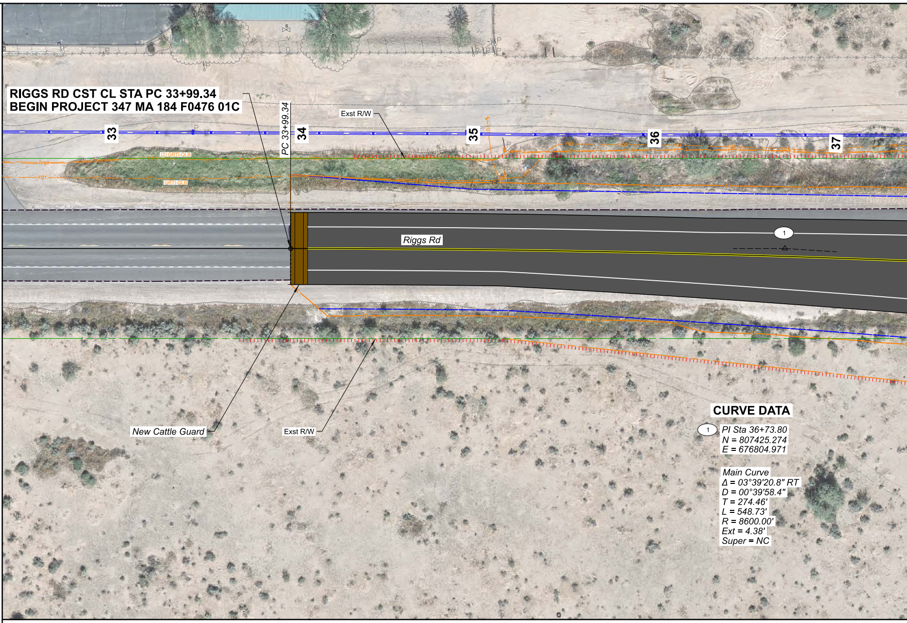
Net Length = 7,547.50' - 1.43 Miles
Mile Post 184.60 to 186.08

Riggs Rd Cst CL
Sta 33+99.34 to Sta 66+00.40 = 3,201.06'
Gross & Net Length = 3,201.06' - 0.61 Miles

LEGEND

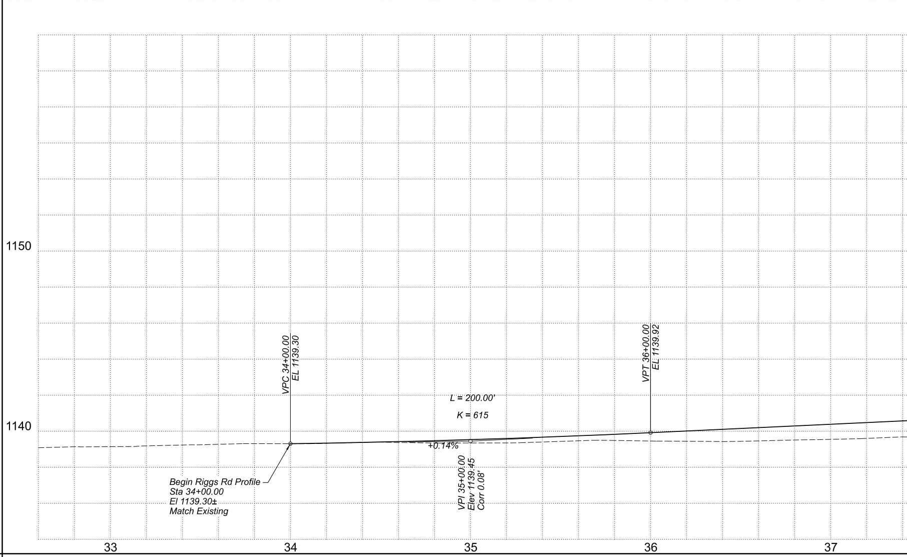
▨	*PCCP Pavement*	——— – – –	*Existing Right-of-Way*
■	*AC Pavement*	——— – – –	*New Right-of-Way*
▨	*Concrete Sidewalk*	⁞⁞⁞⁞⁞⁞⁞⁞⁞⁞	*New Access Control*
☐	*Concrete Slope Paving*	〰	*Proposed Retaining Wall*
🟦	*Proposed Bridge*	—F—F—	*Fill Limits*
🟨	*Raised Median*	—C—C—	*Cut Limits*
🟥	*GRICUA Substation*	– – – – –	*TCE*
▩	*Remove Existing Pavement*		


RIGGS RD CST CL STA PC 33+99.34
BEGIN PROJECT 347 MA 184 F0476 01C
PC 33+99.34
33
34
35
36
37
Exst R/W
Riggs Rd
1
New Cattle Guard
Exst R/W

CURVE DATA

1 *PI Sta 36+73.80*
N = 807425.274
E = 676804.971

Main Curve
Δ = 03°39'20.8" RT
D = 00°39'58.4"
T = 274.46'
L = 548.73'
R = 8600.00'
Ext = 4.38'
Super = NC



FINAL
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Review
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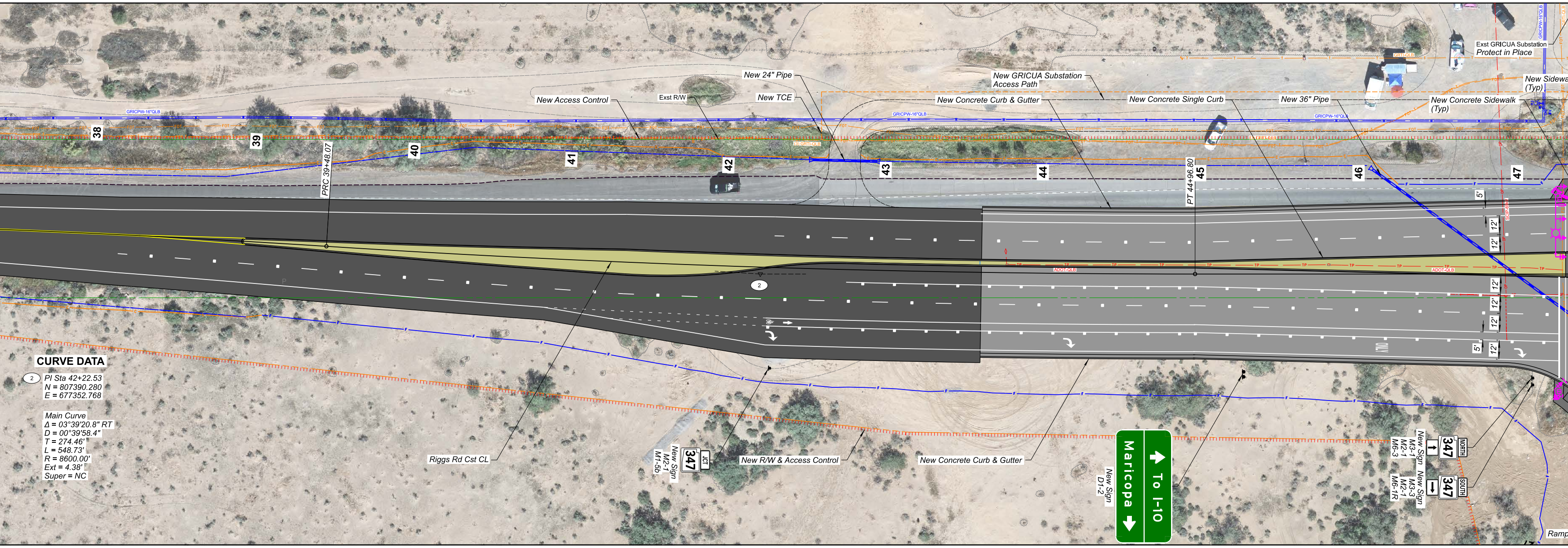
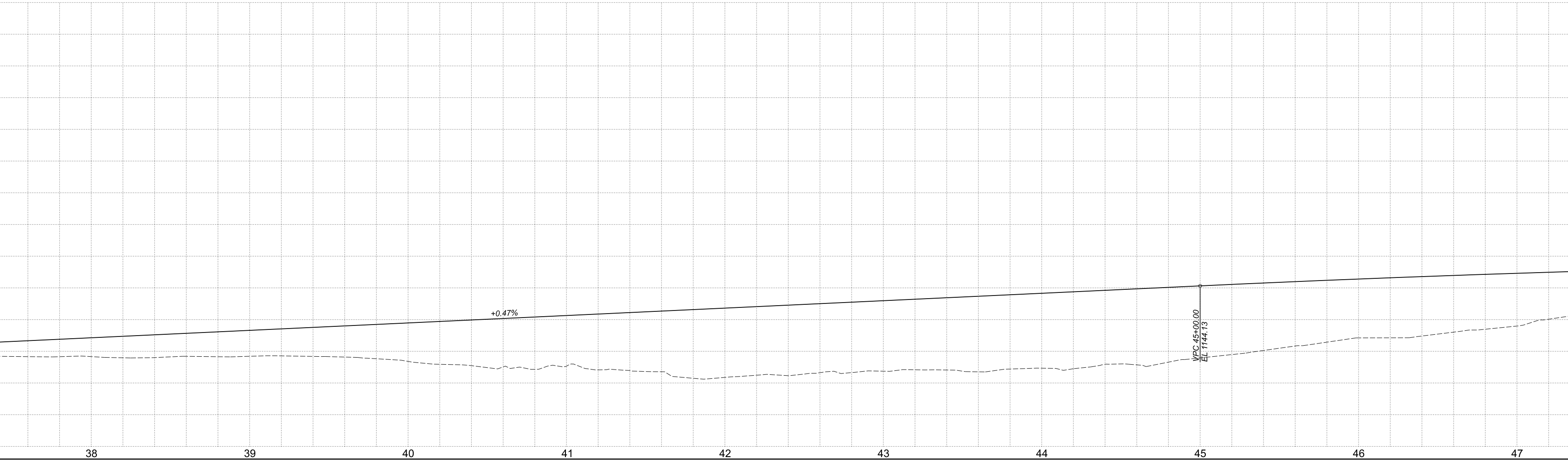
OR RECORDING

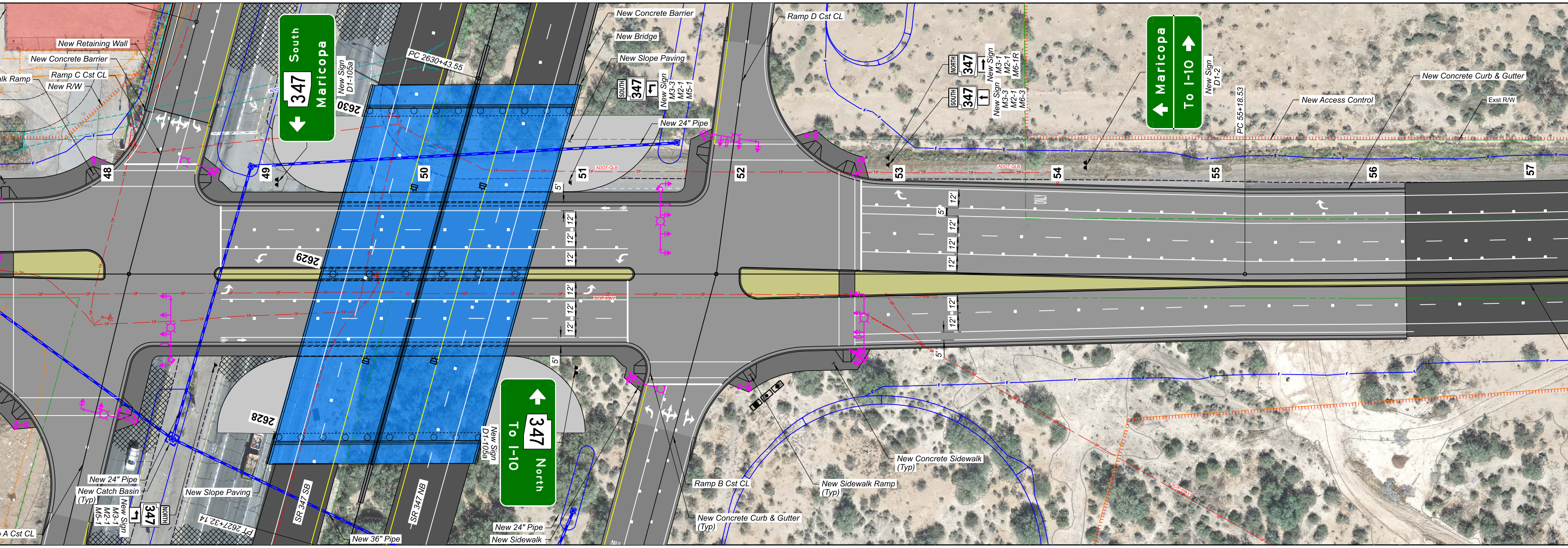

New 24" Pipe
New GRICUA Substation Access Path
Exst GRICUA Substation Protect in Place
New Sidewa
(Typ)
New Access Control
Exst R/W
New TCE
New Concrete Curb & Gutter
New Concrete Single Curb
New 36" Pipe
New Concrete Sidewalk (Typ)
GRICPW-16"QLB
GRTI-QLB
38
39
40
41
42
43
44
45
46
47
PRC 39+48.07
PT 44+96.80
2
5'
12'
12'
12'
12'
12'
12'
5'
ONLY
Riggs Rd Cst CL
New Sign M2-1 M1-5b
JCT 347
New R/W & Access Control
New Concrete Curb & Gutter
New Sign D1-2
To I-10
Maricopa
New Sign M3-1 M2-1 M6-3
NORTH 347
New Sign M3-3 M2-1 M6-1R
SOUTH 347
Ramp

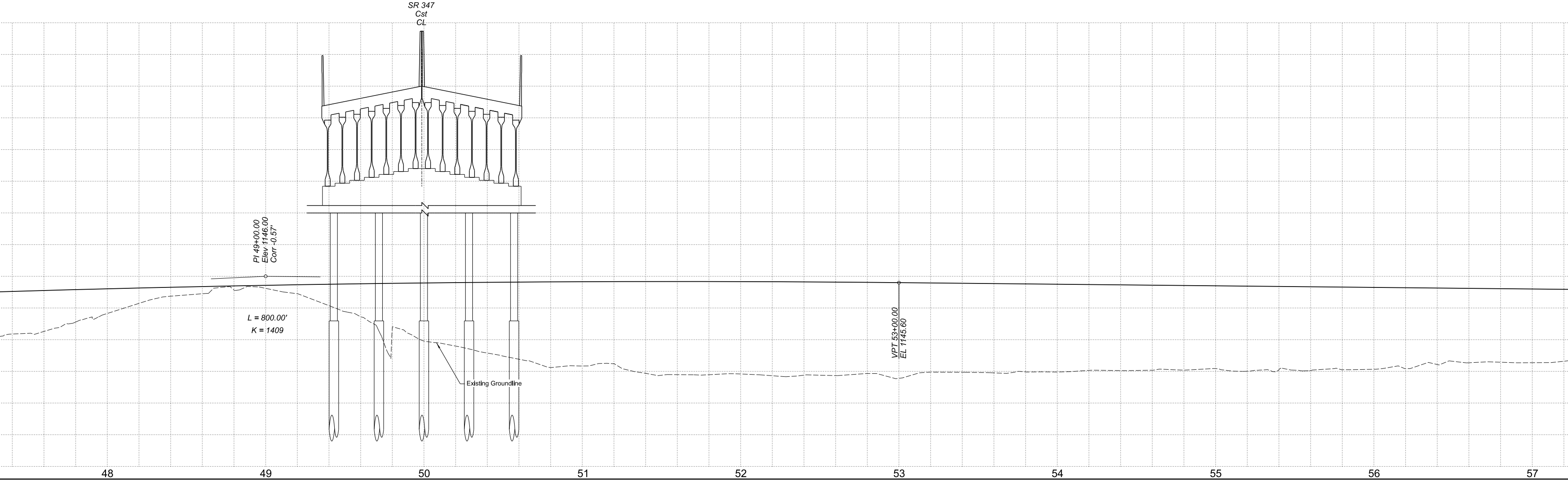
CURVE DATA

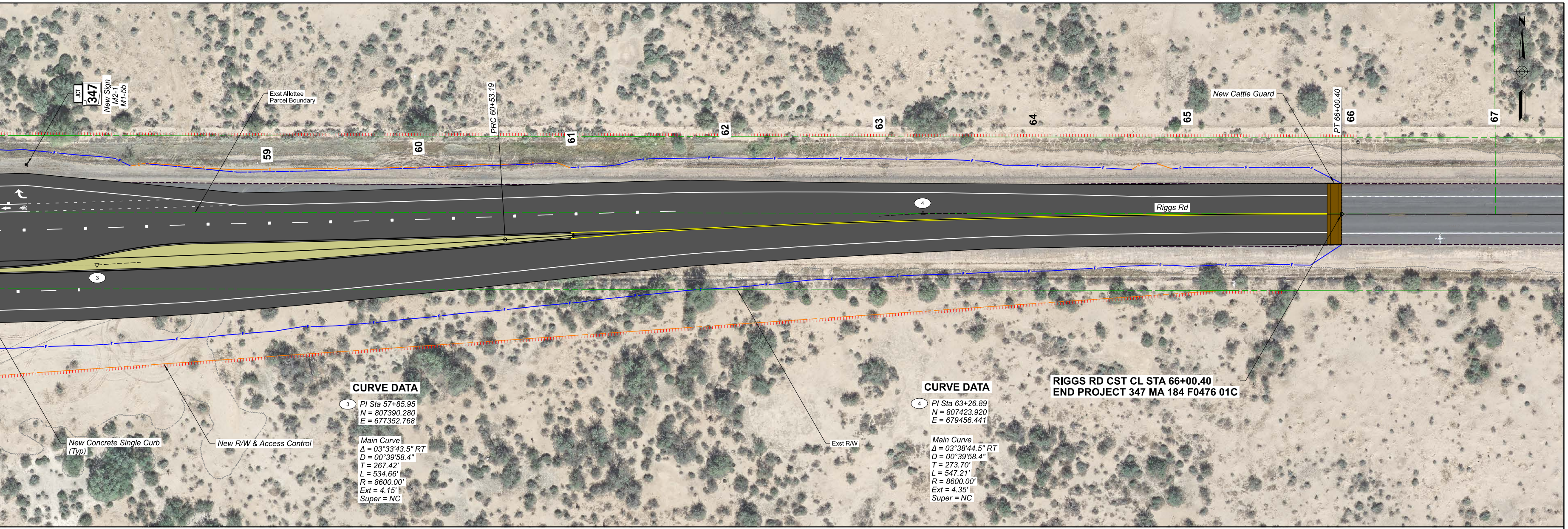
② PI Sta 42+22.53
N = 807390.280
E = 677352.768

Main Curve
Δ = 03°39'20.8" RT
D = 00°39'58.4"
T = 274.46'
L = 548.73'
R = 8600.00'
Ext = 4.38'
Super = NC




New Retaining Wall
New Concrete Barrier
Ramp C Cst CL
alk Ramp
New R/W
South
347
Maricopa
New Sign
D1-105a
2630
PC 2630+43.55
New Concrete Barrier
New Bridge
New Slope Paving
SOUTH
347
New Sign
M3-3
M2-1
M5-1
New 24" Pipe
Ramp D Cst CL
NORTH
347
New Sign
M3-1
M2-1
M6-1R
SOUTH
347
New Sign
M3-3
M2-1
M6-3
Maricopa
To I-10
New Sign
D1-2
PC 55+18.53
New Access Control
New Concrete Curb & Gutter
Exst R/W
48
49
50
51
52
53
54
55
56
57
ADOT-QLB
5'
12'
ONLY
2629
2628
347
To I-10
North
New Sign
D1-105a
New 24" Pipe
New Catch Basin
(Typ)
New Sign
M3-1
M2-1
M5-1
NORTH
347
A Cst CL
New Slope Paving
PT 2627+32.14
SR 347 SB
SR 347 NB
New 36" Pipe
New 24" Pipe
New Sidewalk
Ramp B Cst CL
New Concrete Curb & Gutter
(Typ)
New Sidewalk Ramp
(Typ)
New Concrete Sidewalk
(Typ)


SR 347
Cst
CL
PI 49+00.00
Elev 1146.00
Corr -0.57'
L = 800.00'
K = 1409
Existing Groundline
VPT 53+00.00
EL 1145.60
48
49
50
51
52
53
54
55
56
57


JCT
347
New Sign
M2-1
M1-5b
Exst Allottee
Parcel Boundary
PRC 60+53.19
New Cattle Guard
PT 66+00.40
59
60
61
62
63
64
65
66
67
4
3
Riggs Rd
New Concrete Single Curb
(Typ)
New R/W & Access Control
Exst R/W

CURVE DATA

③ PI Sta 57+85.95
N = 807390.280
E = 677352.768

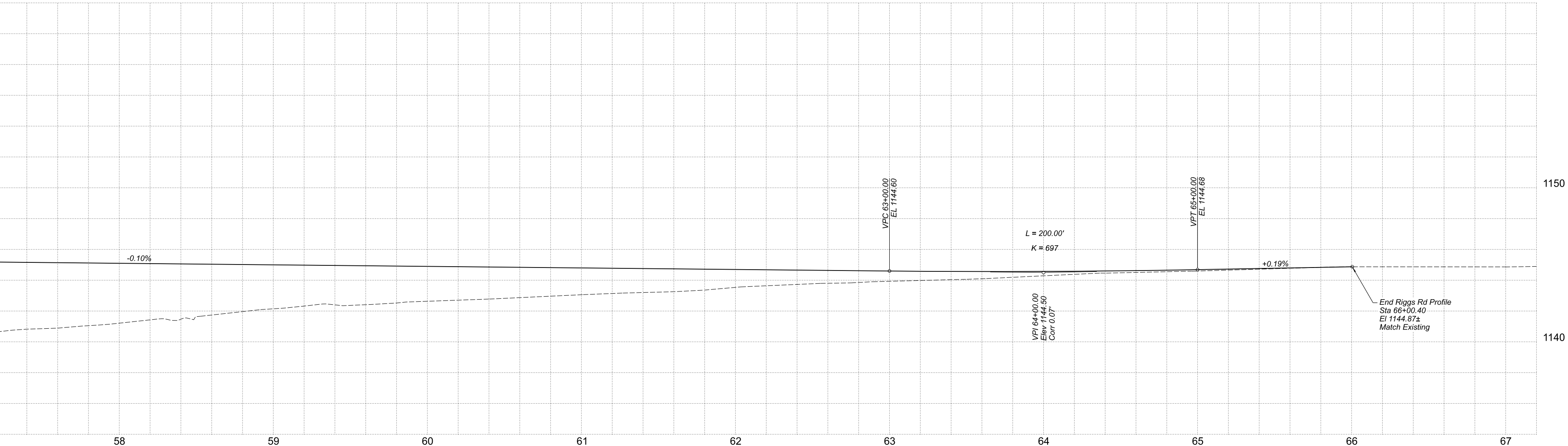
Main Curve
Δ = 03°33'43.5" RT
D = 00°39'58.4"
T = 267.42'
L = 534.66'
R = 8600.00'
Ext = 4.15'
Super = NC

CURVE DATA

④ PI Sta 63+26.89
N = 807423.920
E = 679456.441

Main Curve
Δ = 03°38'44.5" RT
D = 00°39'58.4"
T = 273.70'
L = 547.21'
R = 8600.00'
Ext = 4.35'
Super = NC

RIGGS RD CST CL STA 66+00.40
END PROJECT 347 MA 184 F0476 01C



End Riggs Rd Profile
Sta 66+00.40
El 1144.87±
Match Existing

FINAL
DCR
Review
NOT FOR
CONSTRUCTION
OR RECORDING

	NAME	DATE
DESIGN	ARH	09/24
DRAWN	TNS	09/24
CHECKED	RSC	09/24

Kimley»Horn
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
PROJECT MANAGEMENT GROUP

APPENDIX E
SHIFTED DIAMOND INTERCHANGE
RIGGS RD PLAN AND PROFILE

ROUTE
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	347 MA 184	NFA	3	3	

LOCATION RIGGS ROAD TI AT SR 347

TRACS NO. F0476 01L

ADOT

SHEET OF
___ OF___