



**APPENDIX M
SYSTEM ALTERNATIVE IV GEOMETRICS**

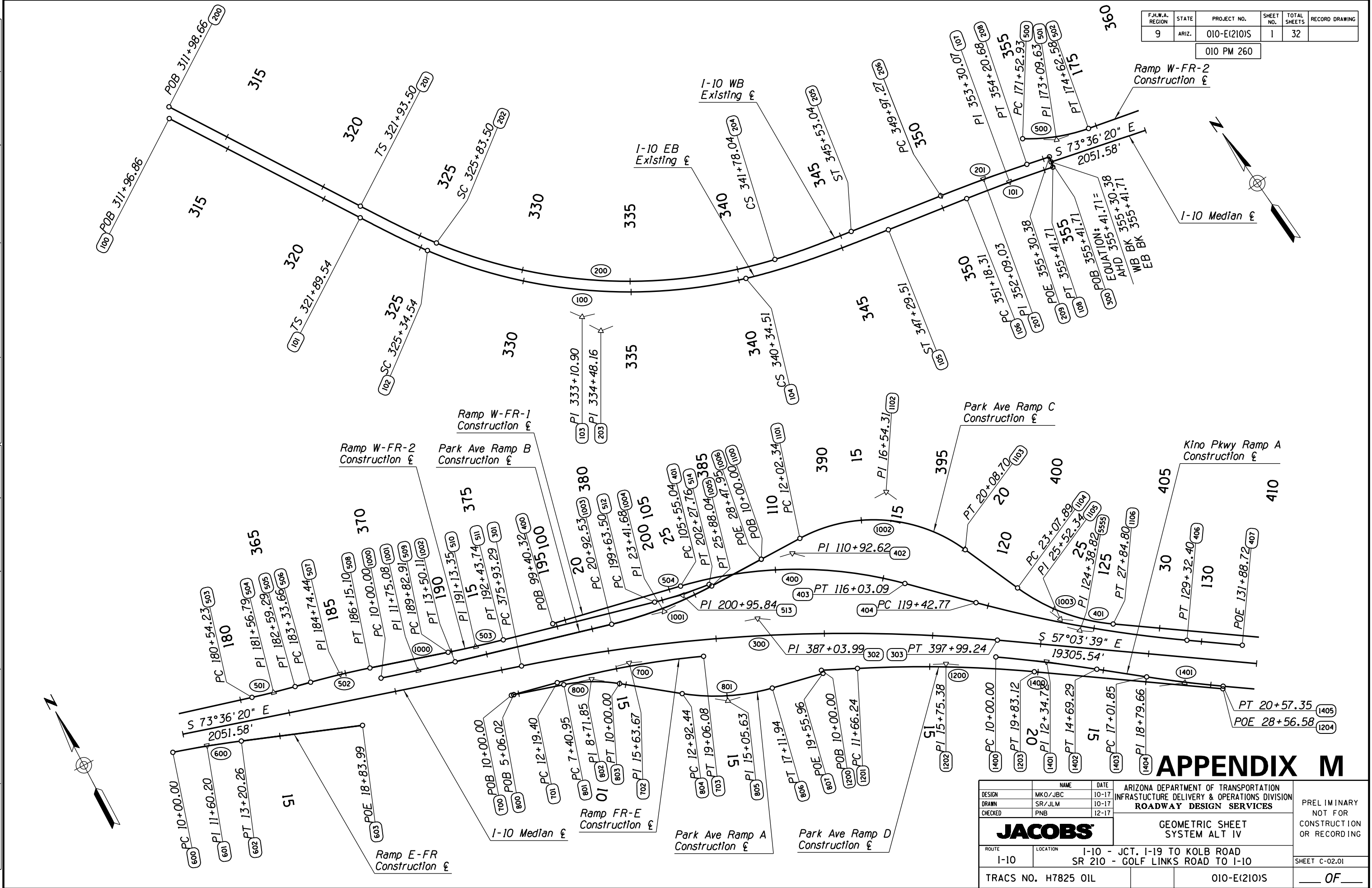


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SURVEY NO. FINISHED PLANS. DATE- REVISIONS- FINISHED PLANS. DATE- SURVEY NO. FINISHED PLANS. DATE- REVISIONS- FINISHED PLANS. DATE-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	1	32	

010 PM 260

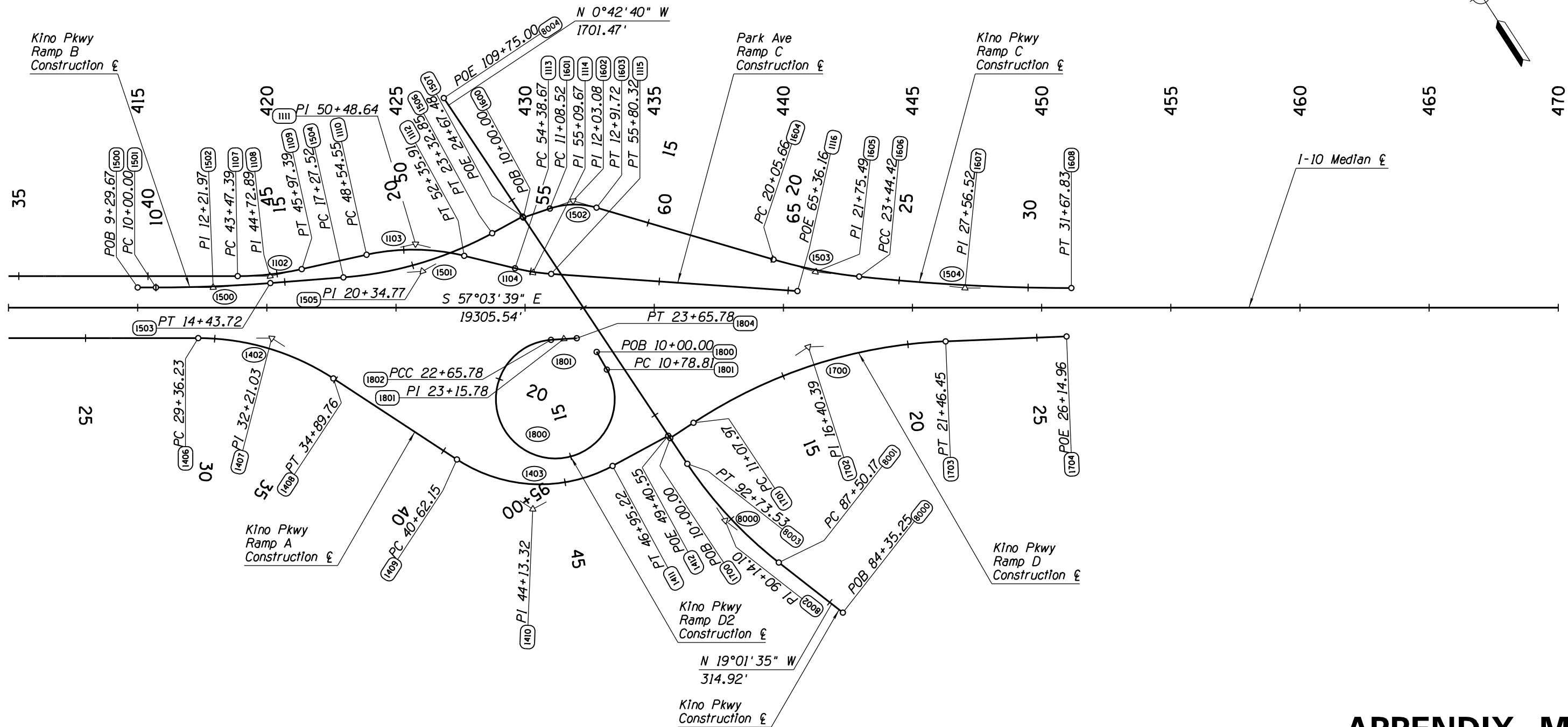
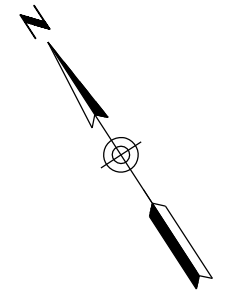


APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS		GEOMETRIC SHEET SYSTEM ALT IV			
ROUTE	I-10	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10	SHEET C-02.01	
TRACS NO.	H7825 OIL	010-E(210)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	2	32	

010 PM 260



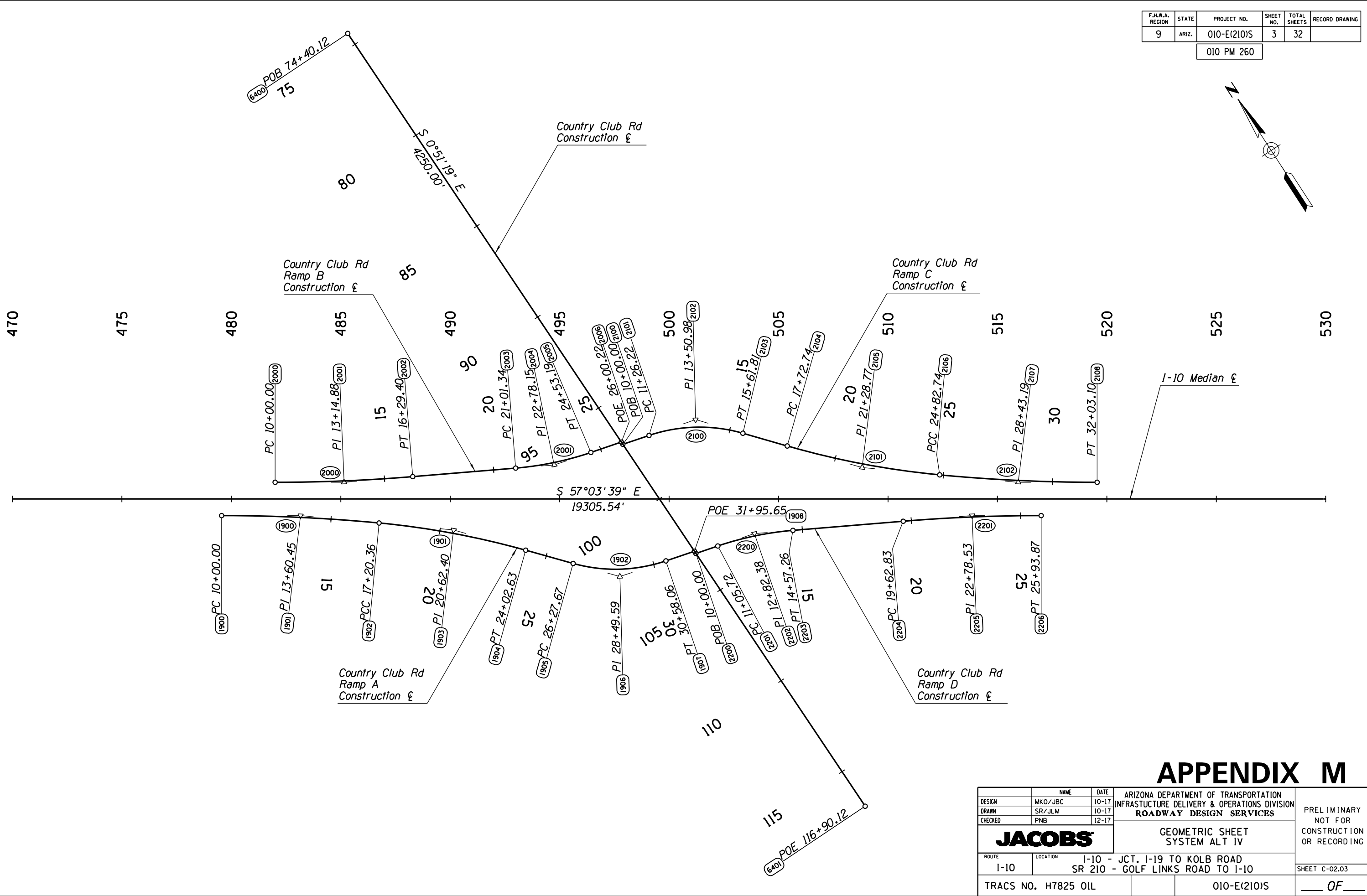
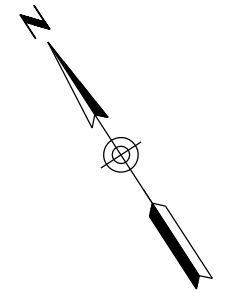
APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	I-10 - JCT. I-19 TO KOLB ROAD			SHEET C-02.02
LOCATION	SR 210 - GOLF LINKS ROAD TO I-10			
TRACS NO. H7825 OIL			010-E(210)S	OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	3	32	

010 PM 260



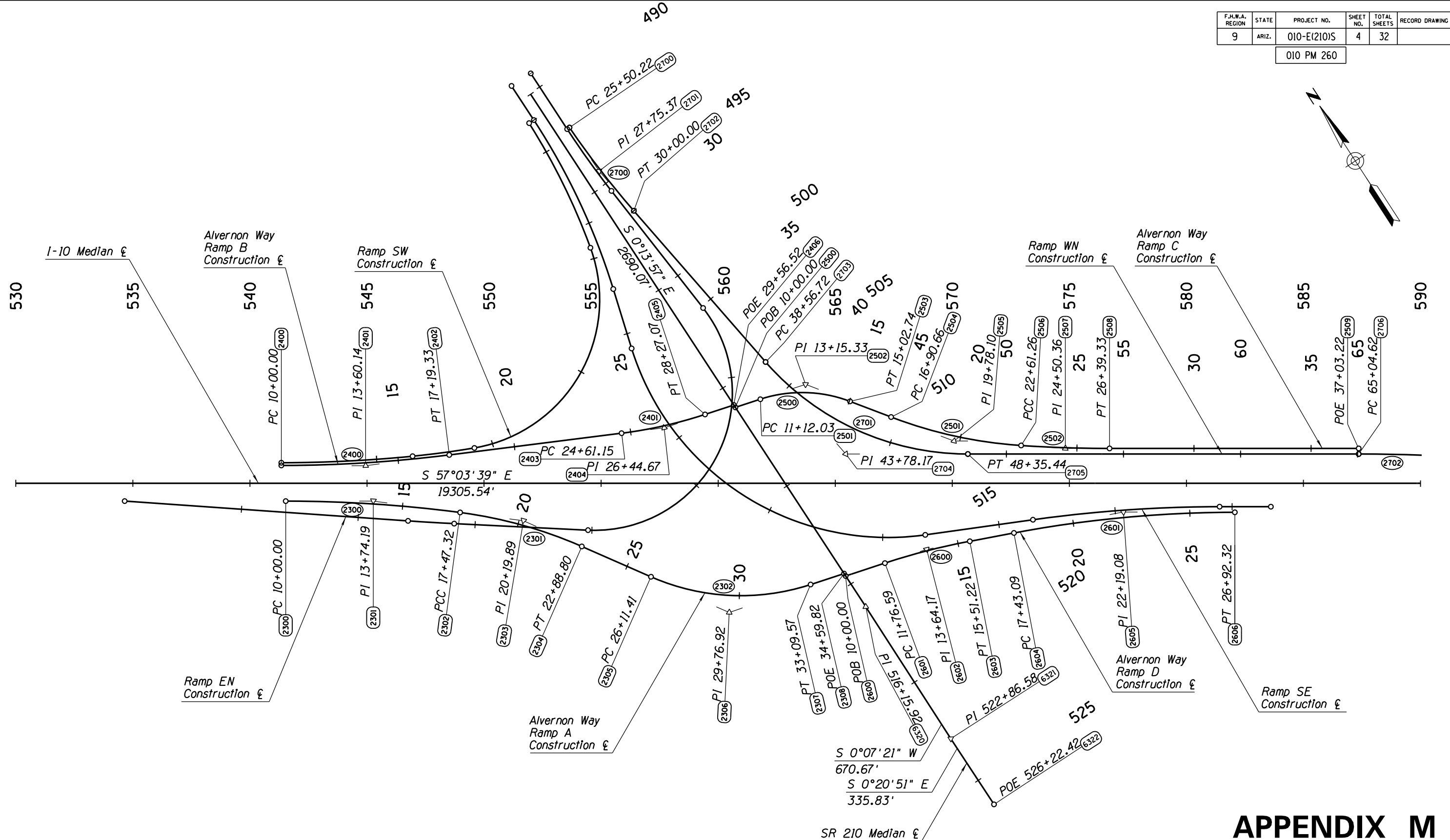
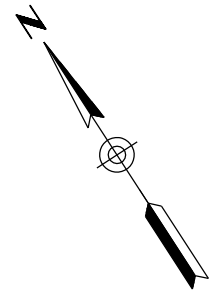
APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS		GEOMETRIC SHEET SYSTEM ALT IV			
ROUTE	I-10	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.03
TRACS NO.	H7825 OIL	PROJECT NO.	010-E(210)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	4	32	

010 PM 260



SR 210 Median €

S 0°07'21" W
670.67'
S 0°20'51" E
335.83'

POE 526+22.42 (6322)

NOTE:
See following sheet for additional alignment data.

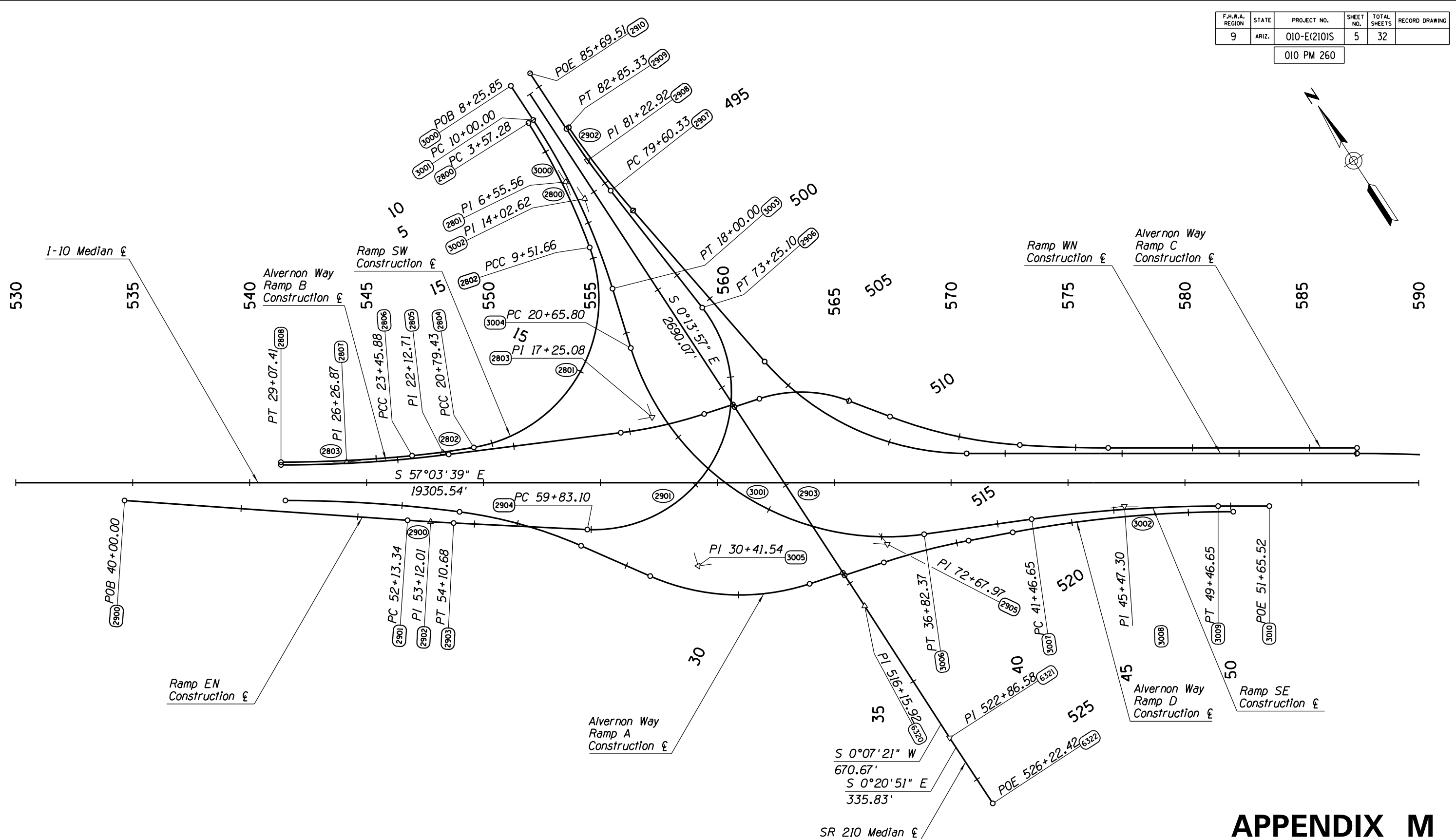
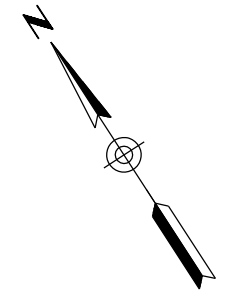
APPENDIX M

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION		PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DESIGN	MKO/JBC	10-17	ROADWAY DESIGN SERVICES		
DRAWN	SR/JLM	10-17			
CHECKED	PNB	12-17	GEOMETRIC SHEET SYSTEM ALT IV		
ROUTE		LOCATION		SHEET	
I-10		I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		C-02.04	
TRACS NO. H7825 OIL			010-E(210)S		
			OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	5	32	

010 PM 260



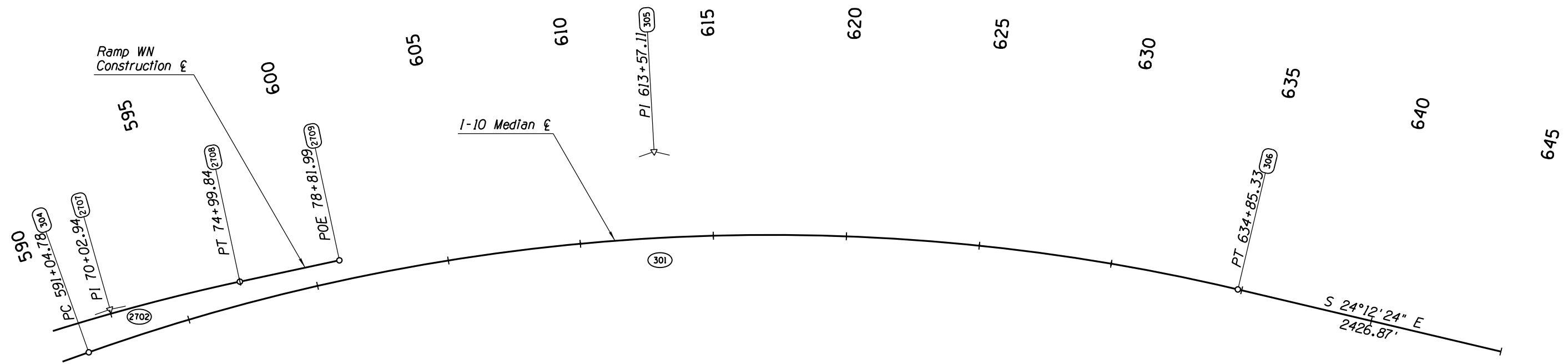
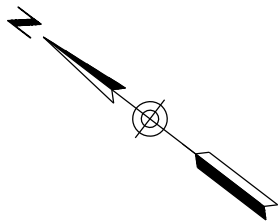
APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.05
TRACS NO.	H7825 OIL	010-E(210)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	6	32	

010 PM 260



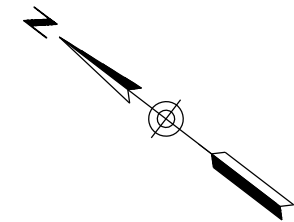
APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.06
TRACS NO. H7825 01L		010-E(210)S		___ OF ___

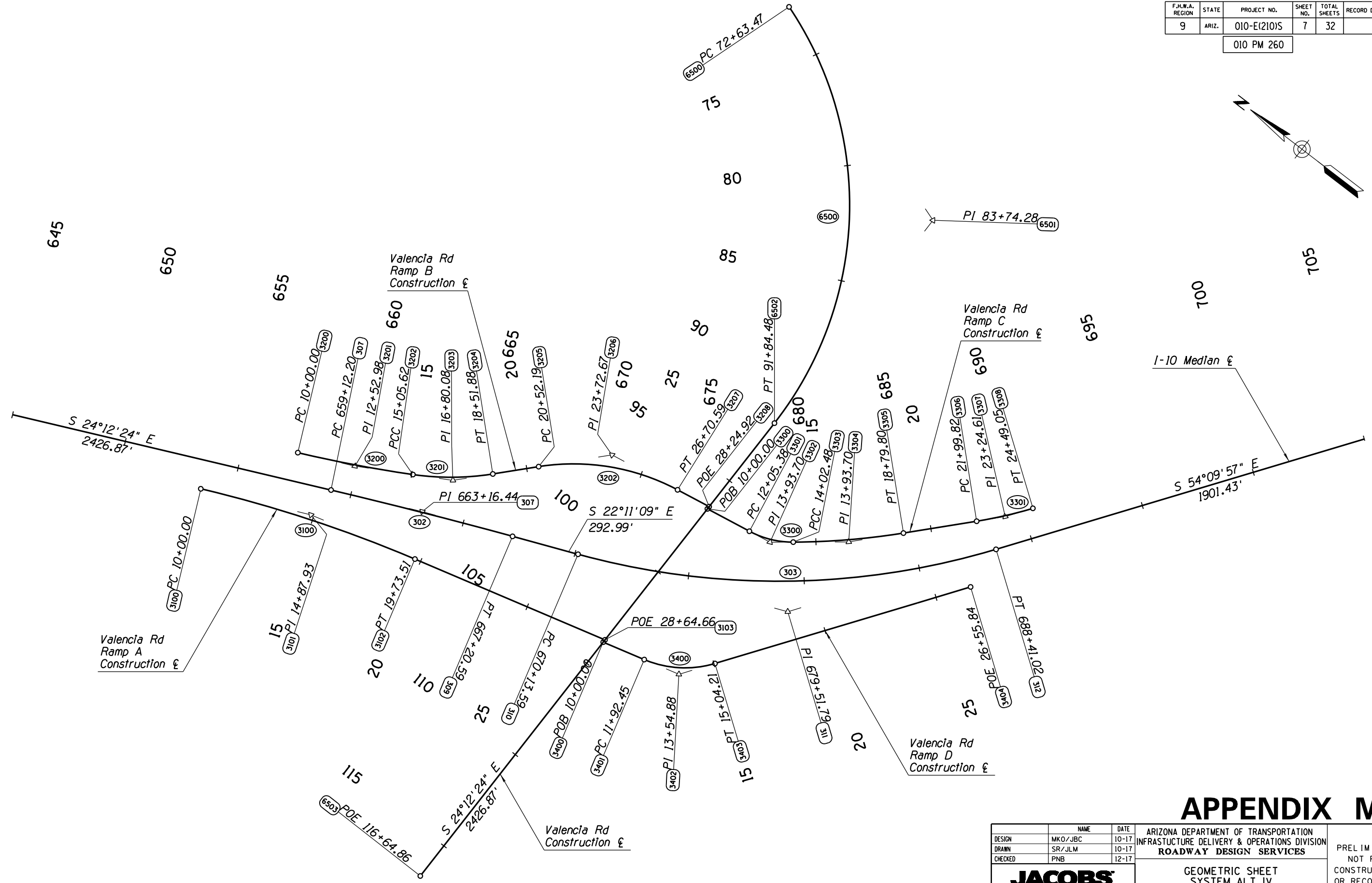
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	7	32	

010 PM 260



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

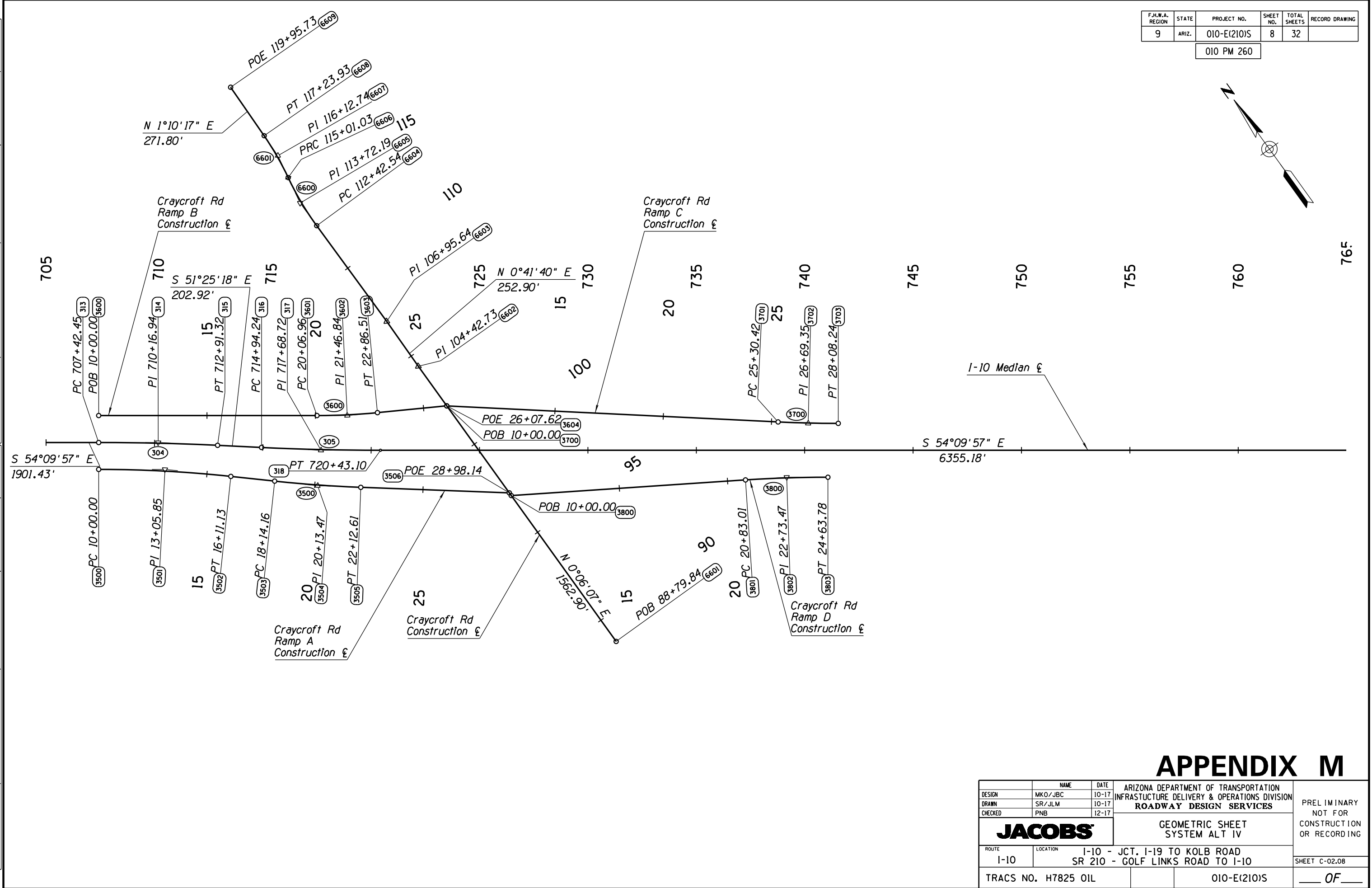
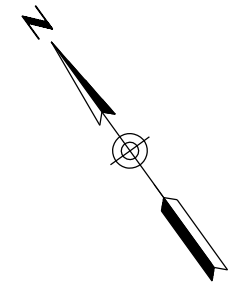


APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS		GEOMETRIC SHEET SYSTEM ALT IV			
ROUTE	I-10	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.07
TRACS NO.	H7825 OIL	PROJECT NO.	010-E(210)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	8	32	

010 PM 260



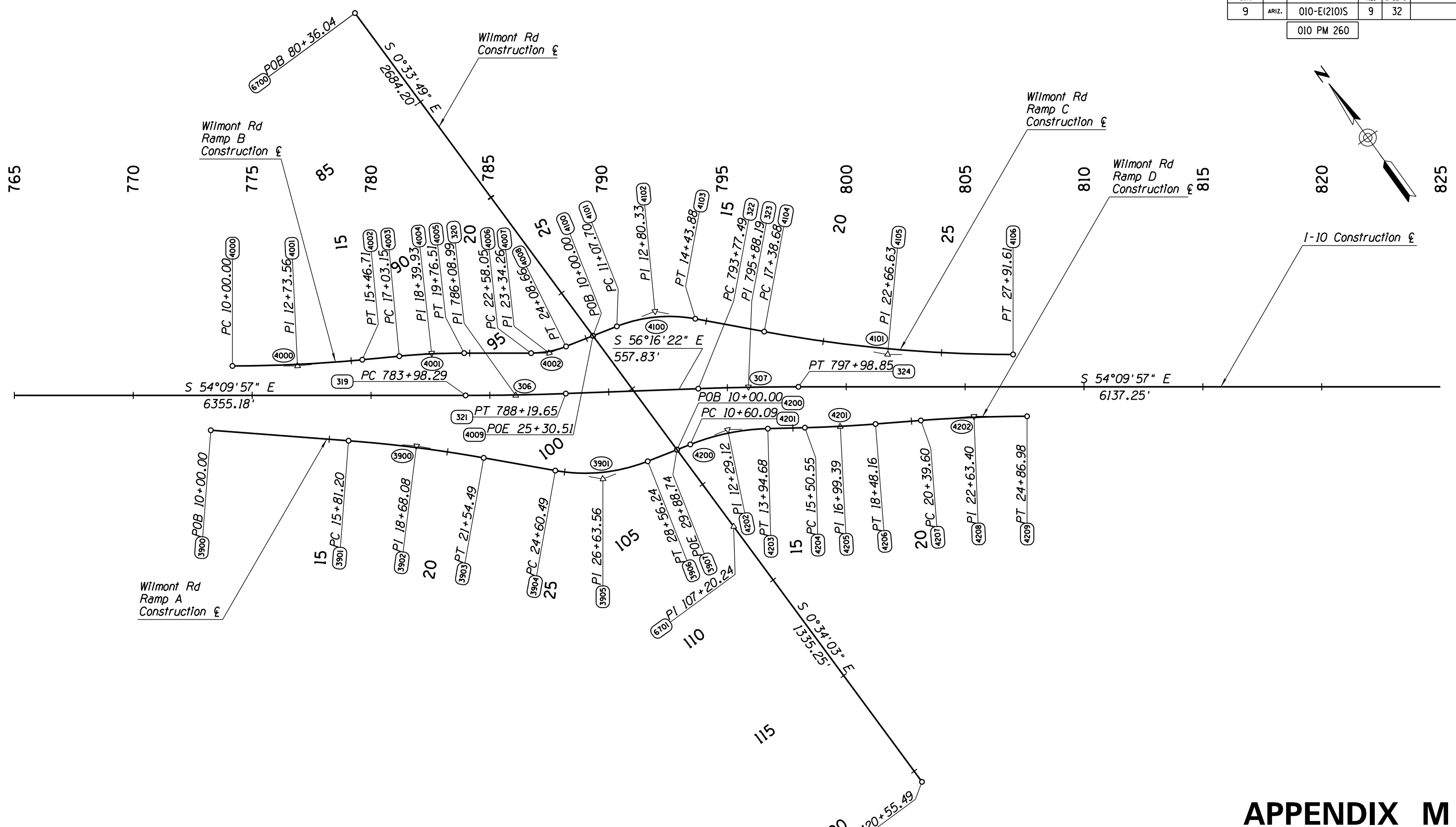
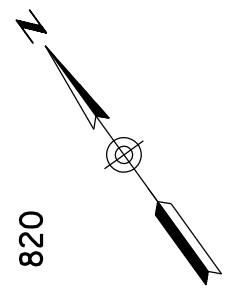
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE SURVEY NO. FINISHED PLANS DATE

APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.08
TRACS NO.	H7825 OIL	010-E(210)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	9	32	

010 PM 260



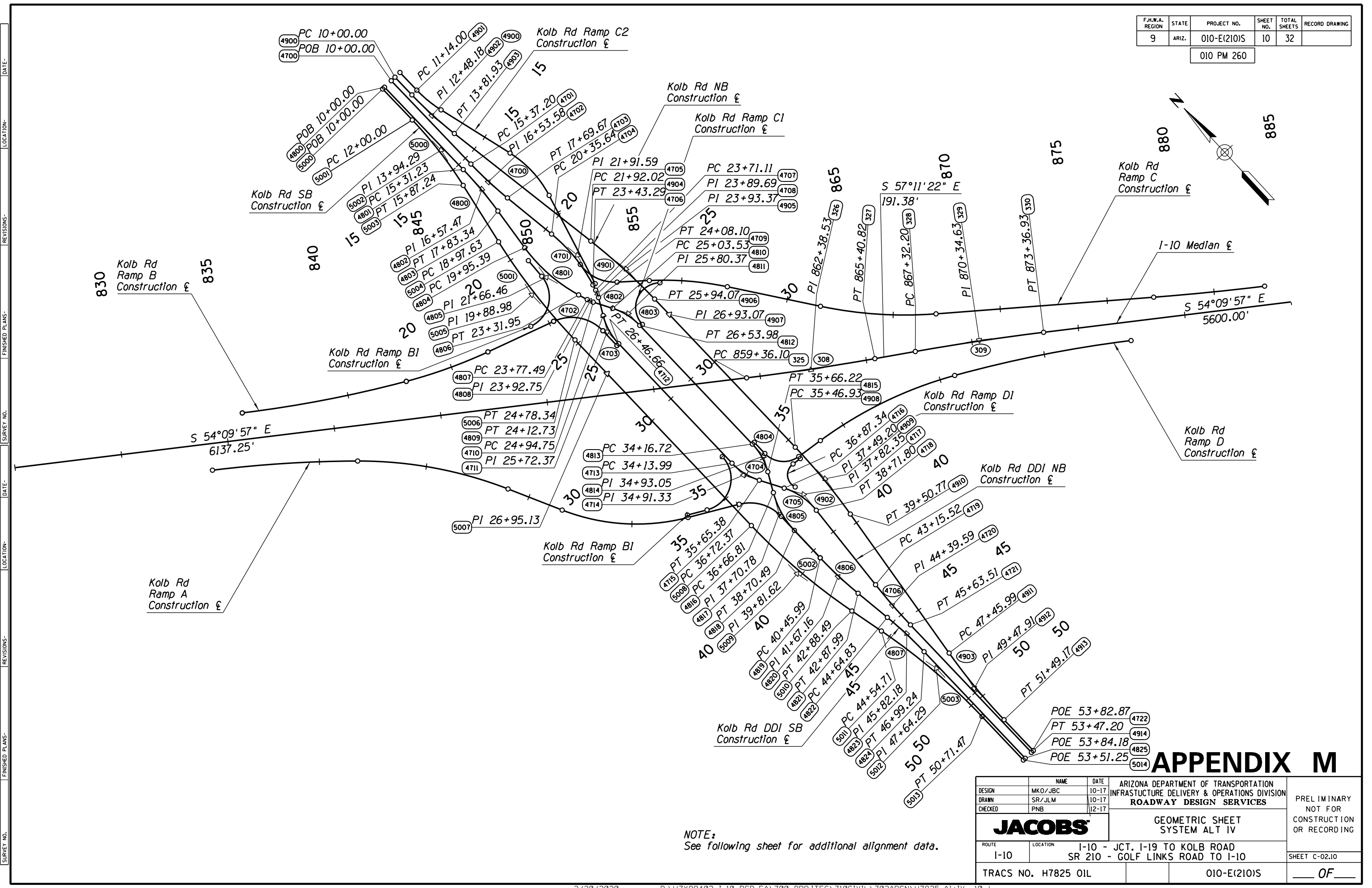
APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS				GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10			SHEET C-02.09
TRACS NO. H7825 OIL			010-E(210)S		
			OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	10	32	

010 PM 260



NOTE:
See following sheet for additional alignment data.

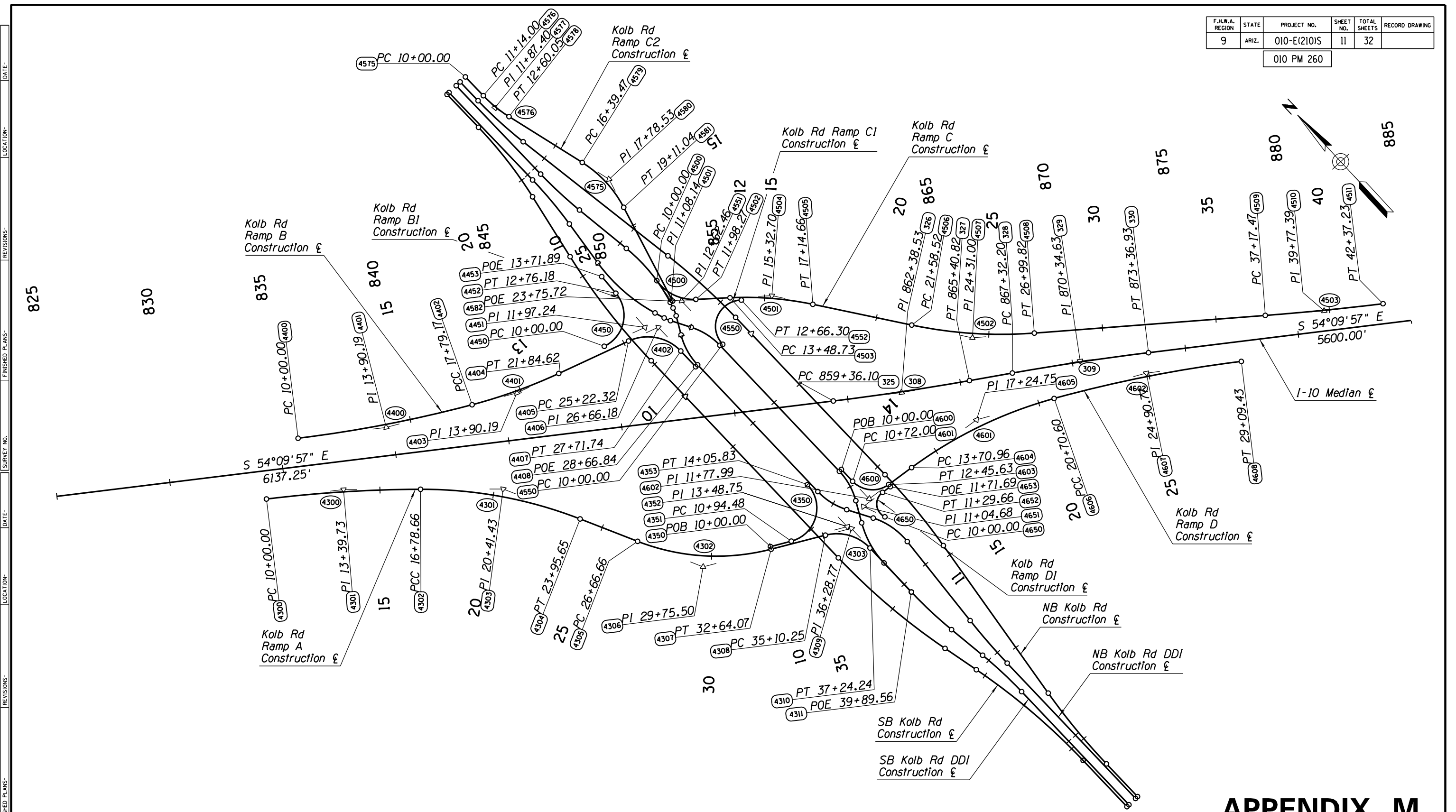
APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS				GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10			SHEET C-02.10
TRACS NO. H7825 OIL			010-E(210)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	11	32	

010 PM 260



NOTE:
See following sheet for additional alignment data.

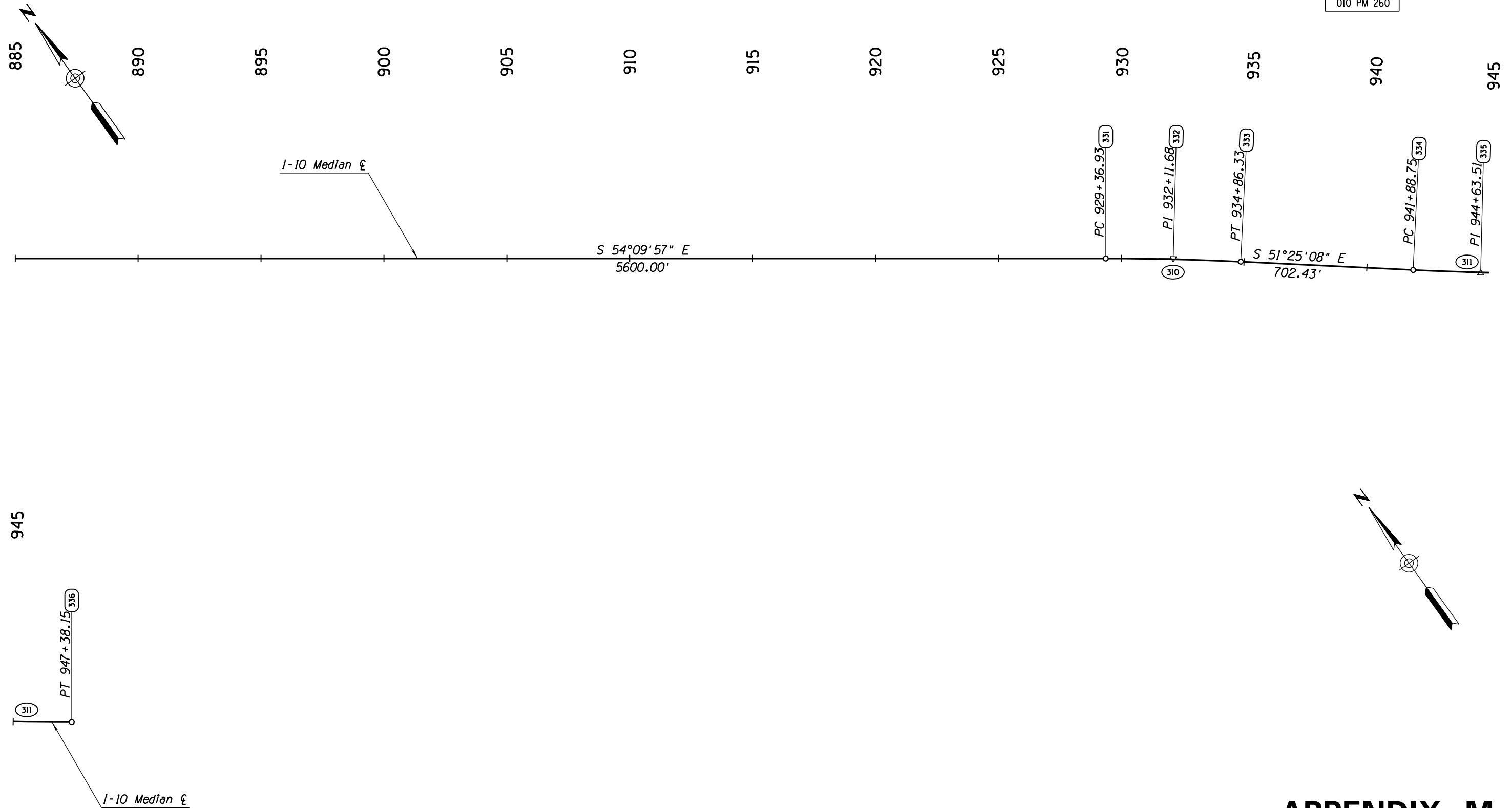
APPENDIX M

DESIGN	MKO/JBC	DATE	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	DATE	10-17		
CHECKED	PNB	DATE	12-17		
JACOBS				GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10			SHEET C-02.11
TRACS NO. H7825 OIL		010-E(210)S			OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	12	32	

010 PM 260



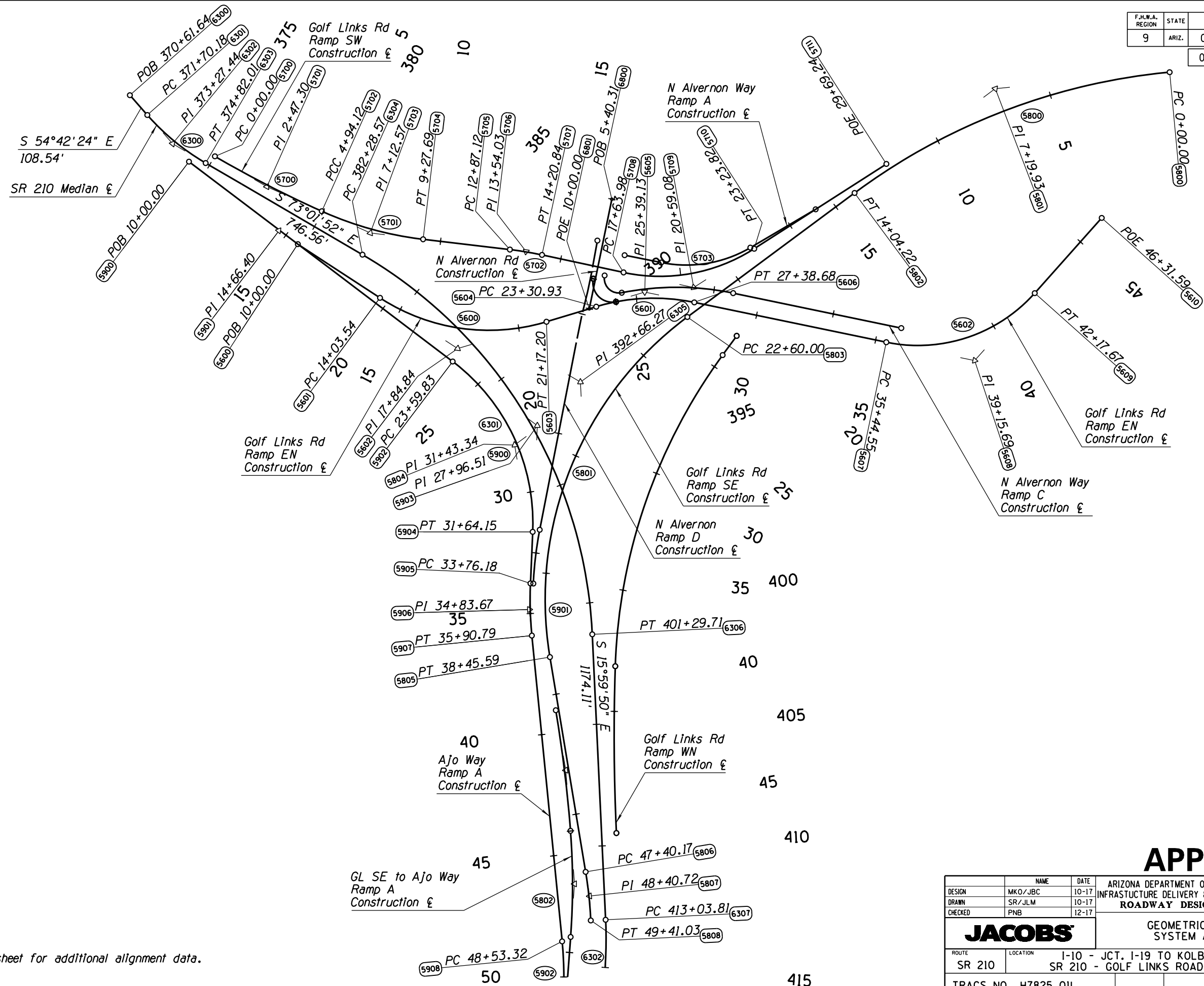
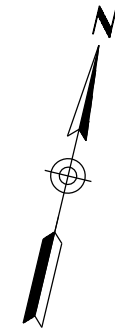
APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION		SHEET C-02.12	
I-10	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10			
TRACS NO. H7825 01L		010-E(210)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	13	32	

010 PM 260



NOTE:
See following sheet for additional alignment data.

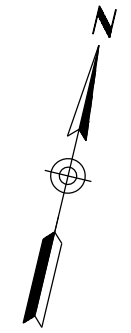
APPENDIX M

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES		PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17	JACOBS GEOMETRIC SHEET SYSTEM ALT IV		
CHECKED	PNB	12-17			
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD		SHEET C-02.13	
SR 210		SR 210 - GOLF LINKS ROAD TO I-10			
TRACS NO. H7825 OIL			010-E(210)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	14	32	

010 PM 260



S 54°42'24" E
108.54'

Golf Links Rd
Ramp SW
Construction £

N Alvernon
Ramp A
Construction £

Golf Links Rd
Ramp EN
Construction £

N Alvernon
Ramp C
Construction £

Golf Links Rd
Ramp EN
Construction £

N Alvernon
Ramp B
Construction £

Golf Links Rd
Ramp SE
Construction £

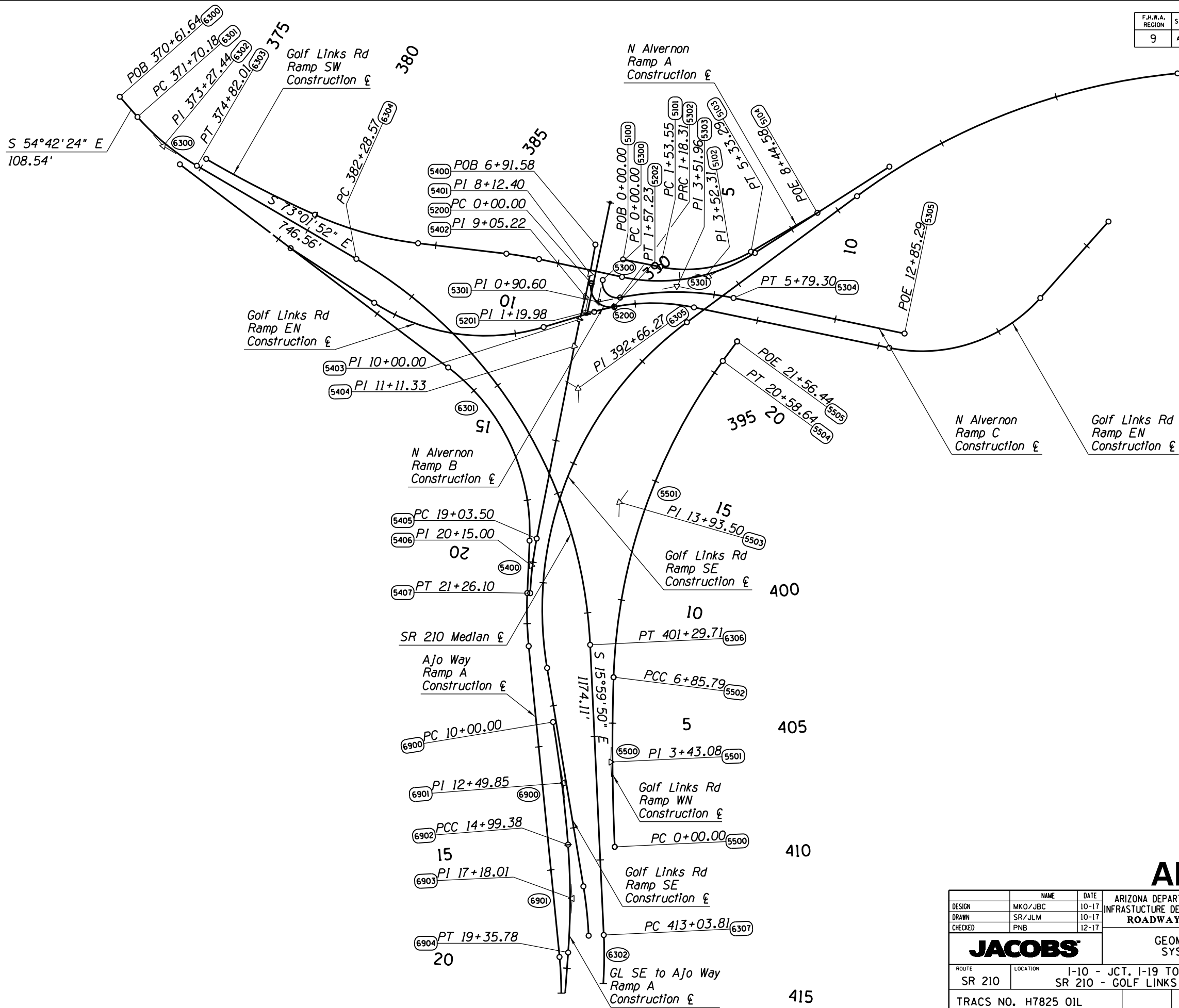
Ajo Way
Ramp A
Construction £

Golf Links Rd
Ramp WN
Construction £

Golf Links Rd
Ramp SE
Construction £

GL SE to Ajo Way
Ramp A
Construction £

DATE - LOCATION - REVISIONS - FINISHED PLANS - SURVEY NO. DATE - LOCATION - REVISIONS - FINISHED PLANS - SURVEY NO.

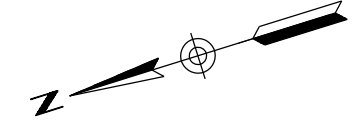
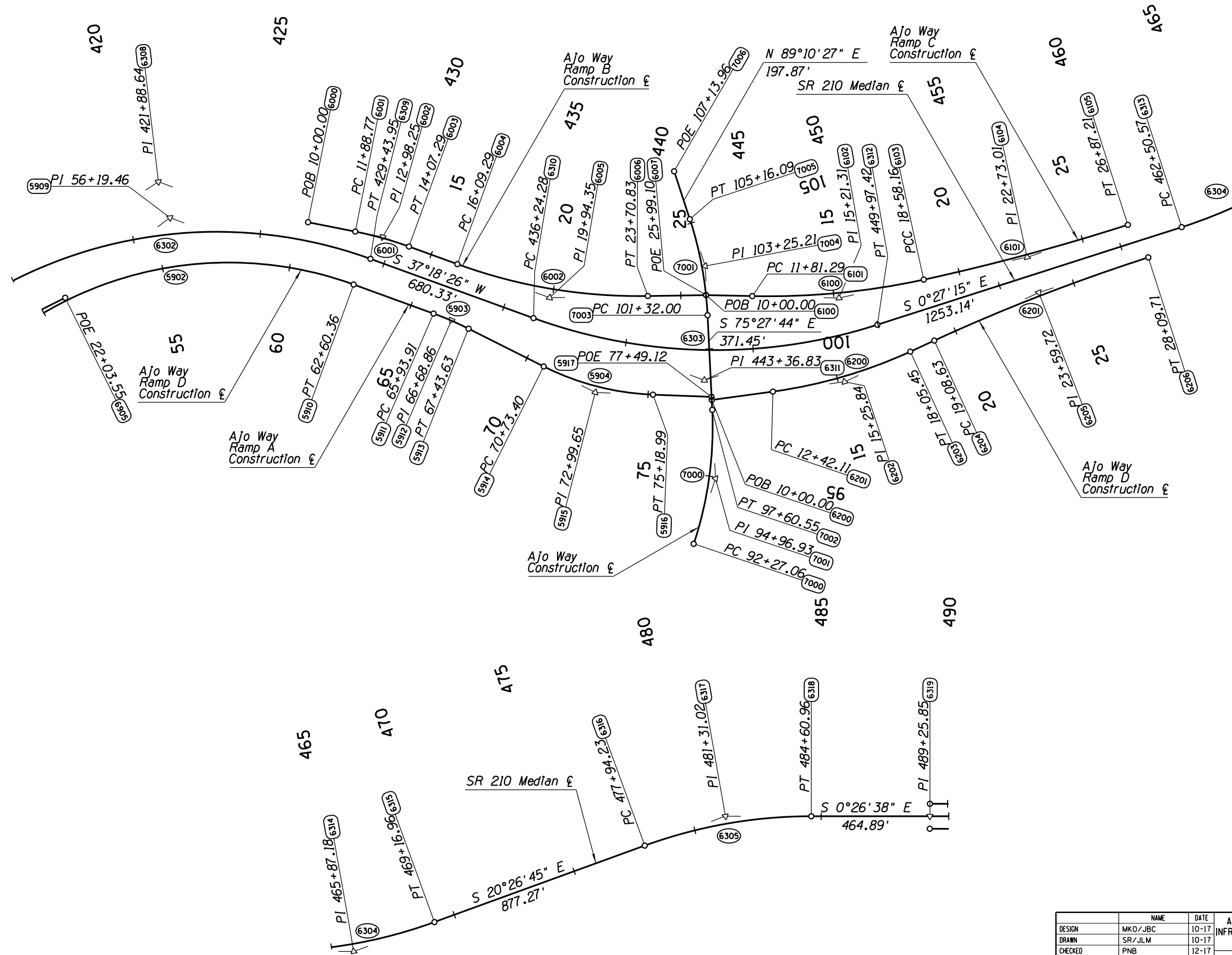


APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - SR 210 - GOLF LINKS ROAD TO I-10		SHEET C-02.14
TRACS NO. H7825 OIL		010-E(210)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-E(210)S	15	32	

010 PM 260



APPENDIX M

DESIGN	MKO/JBC	10-17	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING
DRAWN	SR/JLM	10-17		
CHECKED	PNB	12-17		
JACOBS			GEOMETRIC SHEET SYSTEM ALT IV	
ROUTE	SR 210	LOCATION	I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10	SHEET C-02.15
TRACS NO.	H7825 OIL		010-E(210)S	OF

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

Centerline Geometric Data Sheet

Table with 5 columns: F.H.W.A. REGION, STATE, PROJECT NO., SHEET NO., TOTAL SHEETS. Values: 9, ARIZ., 010-E(210)S, 25, 30.

010 PM 260

Main data table with 16 columns: PLAN REF NO., ALIGNMENT, Point Type, STATION, BEARING, COORDINATES (Northing, Easting), CURVE REF NO., Type, Delta, DOC, Radius, L, T, Ext, Super. Contains multiple rows of geometric data for various road alignments.

APPENDIX M

All Coordinates Are Ground Coordinates And All Bearings Are Grid Bearings
All bearings and angles have been rounded to the nearest second.
Use the control points provided and their respective state plane coordinates to re-establish the centerline of each roadway.

G.A.F. = 1.00016

Form with design details including: NAME, DATE, DESIGN, DRAWN, CHECKED, ROUTE, LOCATION, and TRACS NO. Includes the JACOBS logo and project title: GEOMETRIC DATA SHEET SYSTEM ALT IV.

Centerline Geometric Data Sheet

F.H.W.A. REGION 9 STATE ARIZ. PROJECT NO. 010-E(210)S SHEET NO. 28 TOTAL SHEETS 30 RECORD DRAWING

010 PM 260

Main data table with columns: PLAN REF NO., ALIGNMENT, Point Type, STATION, BEARING, COORDINATES (Northing, Easting), CURVE REF NO., Type, Delta, DOC, Radius, L, T, Ext, Super. Rows include segments 5600-5610, 5700-5711, 5800-5808, and 5900-5912.

APPENDIX M

All Coordinates Are Ground Coordinates And All Bearings Are Grid Bearings G.A.F. = 1.00016 All bearings and angles have been rounded to the nearest second. Use the control points provided and their respective state plane coordinates to re-establish the centerline of each roadway.

Metadata table including DESIGN, DRAWN, CHECKED, NAME, DATE, ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION ROADWAY DESIGN SERVICES, JACOBS, GEOMETRIC DATA SHEET SYSTEM ALT IV, ROUTE, LOCATION, TRACS NO. H7825 OIL, 010-E(210)S, PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING, SHEET C-02.28, OF

Centerline Geometric Data Sheet

F.H.W.A. REGION: 9, STATE: ARIZ., PROJECT NO.: 010-E(210)S, SHEET NO.: 29, TOTAL SHEETS: 30, RECORD DRAWING: 010 PM 260

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

Main data table with columns: PLAN REF NO., ALIGNMENT, Point Type, STATION, BEARING, COORDINATES (Northing, Easting), CURVE REF NO., Type, Delta, DOC, Radius, L, T, Ext, Super. Rows include stations 5913-5917, 6000-6007, 6100-6105, 6200-6206, 6300-6318.

All Coordinates Are Ground Coordinates And All Bearings Are Grid Bearings G.A.F. = 1.00016 All bearings and angles have been rounded to the nearest second. Use the control points provided and their respective state plane coordinates to re-establish the centerline of each roadway.

APPENDIX M

Project information block including: ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY & OPERATIONS DIVISION, ROADWAY DESIGN SERVICES, JACOBS logo, GEOMETRIC DATA SHEET SYSTEM ALT IV, PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING, ROUTE: SR 210, LOCATION: I-10 - JCT. I-19 TO KOLB ROAD SR 210 - GOLF LINKS ROAD TO I-10, SHEET C-02.29, TRACS NO. H7825 OIL, PROJECT: 010-E(210)S, OF

