

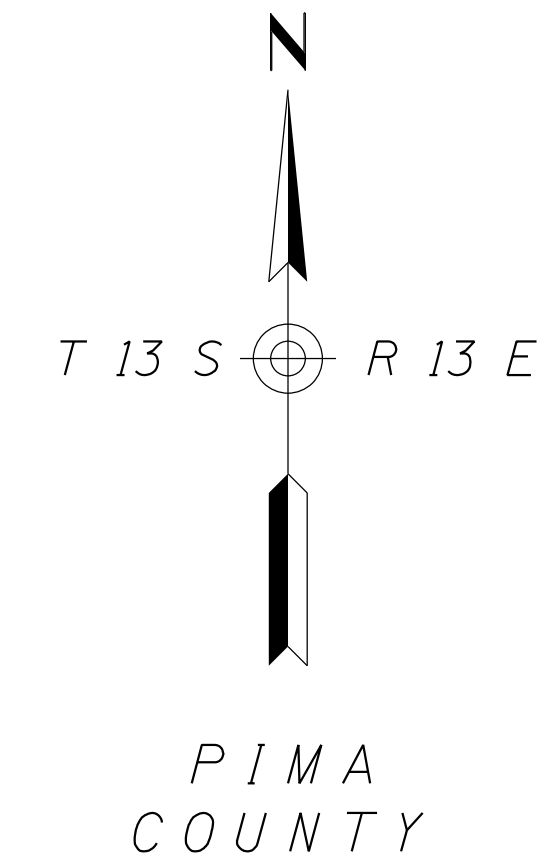
STATE OF ARIZONA  
 DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION



PROJECT PLANS

STATE HIGHWAY  
 CASA GRANDE – TUCSON HIGHWAY  
 INTERSTATE 10

RECONSTRUCT T.I. & MAINLINE  
 MP 251.80 - MP 252.90



*Constructed by:*

Construction Company \_\_\_\_\_

Completion Date \_\_\_\_\_

*Red-Lines by:*

Construction Administrator Name & Company \_\_\_\_\_

Completion Date \_\_\_\_\_

*Record Drawings by:*

Record Drawings Designer Name & Company \_\_\_\_\_

Completion Date \_\_\_\_\_

**RUTHRAUFF ROAD TI**  
**PROJECT NO. 010 PM 252 H8480 01 C**  
**FEDERAL AID NO. NHPP-010-D(213)S**

ARIZONA DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
 DALLAS HAMMIT, P.E., STATE ENGINEER

REC. DWGS. DATA	REC. DWG. DATE	_____ OF _____
--------------------	----------------	----------------

ADOT STANDARD DRAWINGS  
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT CONSTRUCTION
05/12	C-01.10 SH 1	SYMBOL LEGEND
05/12	C-01.10 SH 2	SYMBOL LEGEND
05/12	C-01.10 SH 3	SYMBOL LEGEND
05/12	C-01.10 SH 4	SYMBOL LEGEND
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS
05/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
05/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
05/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
05/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
05/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
05/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
05/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
05/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
05/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
05/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
12/17	C-04.30	SPILLWAY LENGTH TABLE
12/17	C-04.40	DOWNDRAIN LENGTH TABLE
05/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
05/12	C-05.10	CURB & GUTTER, CURB, GUTTER
05/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
05/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
05/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
05/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
05/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
05/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
05/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
05/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
05/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
05/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
05/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
05/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
05/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
05/12	C-05.50	CONCRETE BUS BAY
05/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
05/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
05/12	C-07.01 SH 1	PCCP JOINTS
05/12	C-07.01 SH 2	PCCP JOINTS
05/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
05/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
05/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
05/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
05/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
05/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
05/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
05/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
05/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
05/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE
05/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE
05/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP
05/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP
05/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
05/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
05/12	C-08.20	PAVED GORE AREA
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS
12/17	C-10.01	GUARDRAIL INSTALLATION
12/17	C-10.03	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT STEEL POST
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION
04/19	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
04/19	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
04/19	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
04/19	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
04/19	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
04/19	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=0" TO 26"
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=0" TO 26"
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=26" TO 60"
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=26" TO 60"
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT CONSTRUCTION
12/17	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
12/17	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 1
12/17	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 2
12/17	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
04/19	C-10.77	CONCRETE BARRIER TRANSITION TO GUARDRAIL END TERMINAL LAYOUT WITH CURB
12/17	C-10.78	CONCRETE HALF-BARRIER TRANSITION, 32" TYPE 'F' LOW SPEED APPROACH
12/17	C-10.79	CONCRETE HALF-BARRIER TRANSITION, 42" TYPE 'F' TANGENT DEPARTURE
05/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
05/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
05/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
05/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
05/12	C-11.20	CATTLE GUARD, DRAINAGE
05/12	C-12.10 SH 1	FENCE, WOVEN WIRE
05/12	C-12.10 SH 2	FENCE, BARBED WIRE
05/12	C-12.10 SH 3	FENCE, TYPE 1 AND 2 GATES, FLOOD GATE
05/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
05/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
05/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
05/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
05/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
05/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
05/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
05/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
05/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
05/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
05/12	C-13.15	TYPICAL PIPE INSTALLATION
05/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
05/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
05/12	C-13.60	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
05/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
05/12	C-13.60	SLOTTED DRAIN DETAILS
05/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
05/12	C-13.70	STORM DRAIN CONNECTION DETAILS
05/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
05/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
05/12	C-13.80	PIPE COLLAR DETAILS
05/12	C-15.10	CATCH BASIN, TYPE 1
05/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
05/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
05/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
05/12	C-15.30	CATCH BASIN, TYPE 4
05/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
05/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
05/12	C-15.50	CATCH BASIN, FRAME AND GRATE
05/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
05/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
05/12	C-15.75	CATCH BASIN, DROP INLET
05/12	C-15.80	CATCH BASIN, FLUSH
05/12	C-15.81	CATCH BASIN, SIDE SLOPE
05/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
05/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
05/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
05/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
05/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
05/12	C-16.40	IRRIGATION SLEEVES
05/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
05/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
05/12	C-17.20	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
05/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
05/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
05/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
05/12	C-19.10 SH 1	FORD, CONCRETE WALLS
05/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
05/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
05/12	C-21.20	SURVEY MARKER

REV.: 04/19

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
CONSTRUCTION Standards	NAME	DATE
	ISABEL QUINTERO	5-31-19
PROJECT NO.	010 PM 252 H8480 01C	1A of 849
RECORD DRAWING	FEDERAL AID NO.	REC. DWG. DATE
DATA	010-D(213)S	of

**ADOT STANDARD DRAWINGS**  
 TRAFFIC SIGNING & MARKING STANDARDS  
 (SHEET 1 OF 2)  
 EFFECTIVE APRIL 2019

MADE BY: A. ALZUBI DATE: 4/19  
 MADE BY: L. LOPEZ DATE: 2/19  
 NO.1 DESCRIPTION OF REVISION REVISED S-1, S-III, S-16.  
 NO.2 DESCRIPTION OF REVISION REVISED S-1, S-III, S-16.  
 NO.3 DESCRIPTION OF REVISION REVISED M-13.

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
6/14	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE & REVERSE CURVE DETAILS
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
6/14	M-4	PASSING LANE STRIPING DETAILS
6/14	M-5	RAILROAD PAVEMENT MARKINGS
6/14	M-6	WORD MARKINGS
6/14	M-7	PAVEMENT LETTERS
6/14	M-8	PAVEMENT LETTERS
6/14	M-9	PAVEMENT NUMBERS
6/14	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
6/14	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
6/14	M-11	TURN LANE PAVEMENT MARKINGS
6/14	M-12	WRONG-WAY ARROWS
1/19	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
6/14	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
6/14	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
6/14	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - ACCELERATION LANE
6/14	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
6/14	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
5/15	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
6/14	M-18	RECESSED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 7	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING
5/15	M-19 SHT 8	LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING
6/14	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
6/14	M-20 SHT 1	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-20 SHT 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-21	TRANSVERSE RUMBLE STRIP DETAILS
6/14	M-22 SHT 1	LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
6/14	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
6/14	M-22 SHT 3	CENTERLINE RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
6/14	M-23	OBJECT MARKER DETAILS
6/14	M-24	OBJECT MARKER PLACEMENT DETAILS
6/14	M-26 SHT 1	DELINEATOR PLACEMENT AND SPACING
6/14	M-26 SHT 2	DELINEATOR PLACEMENT AND SPACING
6/14	M-26 SHT 3	FLEXIBLE DELINEATOR ASSEMBLIES
6/14	M-26 SHT 4	SQUARE STEEL POST DELINEATOR
6/14	M-26 SHT 5	DELINEATOR FOUNDATION DETAILS
6/14	M-27	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
6/14	M-29	OFF-MAINLINE REFERENCE MARKER LOCATION DETAIL
6/14	M-30	OFF-MAINLINE REFERENCE MARKER DETAILS
6/14	M-32	BRIDGE AND BARRIER MARKER DETAILS
6/14	M-33	BRIDGE & BARRIER MARKER PLACEMENT AND INSTALLATION DETAILS
6/14	M-34	GUARDRAIL END TERMINAL DELINEATION DETAILS
6/14	M-35	OBJECT MARKER FOR SAND BARREL CRASH CUSHION

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS	NAME	DATE	
	JOE VASKOVIC	5-31-19	
PROJECT NO.	010 PM 252 H8480 01C	IB-1	OF 849
RECORD DRAWING DATA	FEDERAL AID NO. 010-D(213)S	REC. DWG. DATE	OF

**ADOT STANDARD DRAWINGS**  
 TRAFFIC SIGNING & MARKING STANDARDS  
 (SHEET 2 OF 2)  
 EFFECTIVE APRIL 2019

MADE BY: A. ALZUBI DATE: 4/19  
 NO.2 DESCRIPTION OF REVISION REVISED S-1, S-11, S-16, DATE: 2/19  
 MADE BY: L. LOPEZ DATE: 2/19  
 NO.1 DESCRIPTION OF REVISION REVISED M-13, DATE: 4/19

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
4/19	S-1 SHT 1	GENERAL SIGNING NOTES
6/14	S-2 SHT 1	S & W BREAKAWAY POST SELECTION CHART
6/14	S-2 SHT 2	S & W BREAKAWAY POST INSTALLATION DETAILS
6/14	S-3 SHT 1	FLAT SHEET SIGNS SQUARE TUBE POST GENERAL NOTES
6/14	S-3 SHT 2	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 12, 18 AND 24 INCH WIDTHS
6/14	S-3 SHT 3	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 30, 36, 42 AND 54 INCH WIDTHS
6/14	S-3 SHT 4	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 36, 42 AND 48 INCH WIDTHS
6/14	S-3 SHT 5	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 54, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 6	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 7	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 48, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 8	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 9	WARNING SIGN ASSEMBLY - SINGLE POST
6/14	S-3 SHT 10	WARNING SIGN ASSEMBLY - TWO POST
6/14	S-3 SHT 11	WARNING SIGN ASSEMBLY - THREE POST
6/14	S-3 SHT 12	MULTIPLE ROUTE MARKER ASSEMBLIES
6/14	S-3 SHT 13	SPECIAL SIGN ASSEMBLIES
6/14	S-3 SHT 14	STRINGER DETAILS FOR SQUARE TUBE POSTS
6/14	S-3 SHT 15	SQUARE TUBE SIGN POST FOUNDATION
6/14	S-3 SHT 16	SQUARE TUBE POST SLIP BASE DETAILS
6/14	S-4	W SHAPE BREAKAWAY POST FUSE PLATE AND HINGE DETAILS
6/14	S-5	W SHAPE BREAKAWAY POST DETAILS
6/14	S-6	S4x7.7 BREAKAWAY POST DETAILS
6/14	S-7 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
6/14	S-7 SHT 2	ALUMINUM EXTRUSION AUXILIARY SIGN INSTALLATION DETAILS
5/15	S-7 SHT 3	ALUMINUM EXTRUSION EXIT PANEL INSTALLATION DETAIL
6/14	S-8 SHT 1	FLAT SHEET ALUMINUM PANEL ON BREAKAWAY POSTS INSTALLATION DETAIL
6/14	S-8 SHT 2	ALUMINUM EXTRUSION SIGN TO PERFORATED POSTS INSTALLATION DETAIL
6/14	S-9 SHT 1	SIGN INSTALLATION ON POLE
6/14	S-9 SHT 2	SIGN INSTALLATION ON SIGNAL POLE
9/18	S-9 SHT 3	SIGN INSTALLATION ON POLE BAND-TYPE CLAMP
6/14	S-10	MILEPOST AND REFERENCE LOCATION SIGNS
4/19	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM
4/19	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM POST AND BEAM DETAILS

REVISION	STANDARD	SUBJECT: SIGNING & MARKING DETAILS
6/14	S-12 SHT 1	TYPE A, B, AND DOWN ARROWS
6/14	S-12 SHT 2	TYPE C AND D ARROWS
6/14	S-12 SHT 3	C2 ARROW DETAIL
6/14	S-13	SIGN IDENTIFICATION DETAILS
6/14	S-14 SHT 1	ROTATING OPEN/CLOSED SIGN
6/14	S-14 SHT 2	ROTATING OPEN/CLOSED SIGN DETAILS
6/14	S-14 SHT 3	ROTATING OPEN/CLOSED SIGN MOUNTING DETAILS
6/14	S-15 SHT 1	FOLDING RECTANGULAR SIGN ASSEMBLY
6/14	S-15 SHT 2	FOLDING RECTANGULAR SIGN OPERATION
6/14	S-15 SHT 3	FOLDING DIAMOND SIGN ASSEMBLY
4/19	S-16 SHT 1	TEMPORARY WOOD POSTS
4/19	S-16 SHT 2	TEMPORARY WOOD POSTS SELECTION CHART
6/14	S-17	END OF ROAD BARRICADE
12/18	C-1	SAND BARREL CRASH CUSHION
12/18	C-2	SAND BARREL CRASH CUSHION TYPICAL INSTALLATION
6/14	C-3 SHT 1	PRECAST CONCRETE BARRIER STRUCTURAL DETAILS
6/14	C-3 SHT 2	PRECAST CONCRETE BARRIER PIN AND LOOP ASSEMBLY
6/14	C-4 SHT 1	MEDIAN CROSSOVER
6/14	C-4 SHT 2	TYPICAL END TREATMENTS FOR DETOURS USING TEMPORARY CONCRETE BARRIER (TCB)
6/14	C-5 SHT 1	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER
6/14	C-5 SHT 2	APPROACH PLATE AND TRANSITION SECTION FOR TEMPORARY CONCRETE BARRIER

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
SIGNING & MARKING STANDARDS		NAME JOE VASKOVIC	DATE 5-31-19
PROJECT NO. 010 PM 252 H8480 01C		IB-2 OF 849	
RECORD DRAWING DATA	FEDERAL AID NO. 010-D(213)S	REC. DWG. DATE	OF

**ADOT STANDARD DRAWINGS**  
**TRAFFIC SIGNAL AND LIGHTING STANDARDS**  
(SHEET 1 OF 2)  
EFFECTIVE APRIL 2019

NO.1. DESCRIPTION OF REVISION REVISION NO. 0-1. UPDATED BORDER TITLE BLOCK. MADE BY L. LOPEZ DATE 05/15 NO.2. DESCRIPTION OF REVISION REVISION NO. 0-4 AND T.S. 3 SERIES. MODIFIED T.S. 4 SERIES. AND CREATED T-SL SERIES. MADE BY A. ALZUBRI DATE 04/19

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T. S. 0</b>	<b>ABBREVIATIONS, SYMBOLS AND DEFINITIONS</b>
05/15	0-1	STANDARD ABBREVIATIONS
01/12	0-2 SHT 1	PLAN SYMBOLS
01/12	0-2 SHT 2	PLAN SYMBOLS
01/12	0-2 SHT 3	PLAN SYMBOLS
03/10	0-3 SHT 1	STANDARD DEFINITIONS
03/10	0-3 SHT 2	STANDARD DEFINITIONS
04/19	0-4	REFERENCE DOCUMENTS AND GENERAL REQUIREMENTS
	<b>T. S. 1</b>	<b>PULL BOXES</b>
09/11	1-1 SHT 1	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX
09/11	1-1 SHT 2	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 SLOPE WALL BODY PULL BOX DETAILS
03/15	1-2	HEAVY DUTY NO. 5 AND NO. 7 STRAIGHT BODY WALL PULL BOX DETAILS
09/11	1-3	REPLACEMENT LID SIZING FOR EXISTING NO. 5 AND NO. 7 PULL BOXES
09/11	1-4 SHT 1	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4 SHT 2	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4 SHT 3	TYPICAL PULL BOX INSTALLATION DETAILS
09/11	1-5 SHT 1	ELECTRICAL CONDUIT COVER AND TRENCH REQUIREMENTS
09/11	1-5 SHT 2	CONDUIT EXPANSION COUPLINGS
09/11	1-6	CONDUCTOR REQUIREMENTS
03/10	1-7	TRAFFIC SIGNAL IMSA CABLE COLOR CODES
09/11	1-8 SHT 1	FRONT OF BARRIER JUNCTION BOX
09/11	1-8 SHT 2	BACK OF BARRIER JUNCTION BOX
09/11	1-9	TOP OF BARRIER JUNCTION BOX DETAILS
09/11	1-10	TOP OF BARRIER JUNCTION BOX DETAILS
10/13	1-11 SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
10/13	1-11 SHT 2	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
03/15	1-11 SHT 3	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX LID
03/15	1-12 SHT 1	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
03/15	1-12 SHT 2	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
	<b>T. S. 2</b>	<b>FOUNDATIONS</b>
03/10	2-1	FOUNDATION FOR TYPE II LOAD CENTER CABINET
03/10	2-2	FOUNDATION FOR TYPE IV LOAD CENTER CABINET
03/10	2-3	FOUNDATION FOR TYPE III CONTROL CABINET
03/10	2-4	FOUNDATION FOR TYPE IV AND V CONTROL CABINETS
03/10	2-5	FOUNDATION FOR TYPE 340 CONTROL CABINET
03/10	2-6	METER PEDESTAL CABINET FOUNDATION AND BASE
03/15	2-7	TRAFFIC SIGNAL UPS CABINET FOUNDATION DETAIL
	<b>T. S. 3</b>	<b>CABINETS</b>
12/12	3-0	NOTES FOR TYPE II AND IV LOAD CENTER CABINETS
03/10	3-1	TYPE II LOAD CENTER CABINET
03/10	3-2	TYPE IV LOAD CENTER CABINET
03/10	3-3	TYPE II OR IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT
03/10	3-4 SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-4 SHT 2	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-5 SHT 1	TYPE I AND II METER PEDESTAL CABINET
12/12	3-5 SHT 2	METER PEDESTAL CABINET
03/10	3-6	TYPE III CONTROL CABINET
03/10	3-7	POLE MOUNTED TYPE III CONTROL CABINET
03/10	3-8 SHT 1	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-8 SHT 2	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-9 SHT 1	TYPE IV AND V CONTROL CABINET NOTES
03/10	3-9 SHT 2	TYPE IV CONTROL CABINET
03/10	3-9 SHT 3	TYPE V CONTROL CABINET
03/10	3-10	CABINET EXTENSION OR ELEVATOR BASE
03/10	3-11	CONTROL CABINET MOUNTED SERVICE ENCLOSURE
03/10	3-12 SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-12 SHT 2	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-13 SHT 1	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13 SHT 2	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13 SHT 3	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET CAGE DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT:
		<b>TRAFFIC SIGNALS AND LIGHTING DETAILS</b>
	<b>T-SL 4</b>	<b>POLES AND POSTS</b>
04/19	4.01	TYPE A POLE
04/19	4.02	TYPE S POLE
04/19	4.03	TYPE T POLE
04/19	4.04	TYPE S AND TYPE T STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS
04/19	4.05	ALUMINUM TYPE S POLE
04/19	4.06	ALUMINUM TYPE T POLE
04/19	4.07	TYPE G POLE
04/19	4.08	ALUMINUM TYPE G POLE
04/19	4.09	ALUMINUM TYPE H POLE
04/19	4.10	ALUMINUM TYPE I POLE
04/19	4.11	GENERAL NOTES FOR TRAFFIC SIGNALS AND LIGHTING POLES WITH MAXIMUM LOADING CASE
04/19	4.12	TYPE J POLES (25-J, 30-J, 35-J, AND 40-J) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH
04/19	4.13	TYPE Q POLES (25-QL, 30-QL, 35-QL, AND 40-QL) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
04/19	4.14	TYPE K POLES (45-K, 50-K, AND 55-K) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH
04/19	4.15	TYPE R POLES (45-RL, 50-RL, AND 55-RL) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
04/19	4.16	TYPE V POLES (60-V AND 65-V) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH
04/19	4.17	TYPE W POLES (60-WL AND 65-WL) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
04/19	4.18	POLE HAND HOLE DETAILS
04/19	4.19	TYPE U POLE (ELLIPTICAL BASE) DETAILS
04/19	4.20	TYPE U POLE (ROUND POLE WITH SQUARE BASE) NOTES
04/19	4.21	TYPE U POLE (ROUND POLE WITH SQUARE BASE) FOUNDATION DETAILS
04/19	4.22	TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 1
04/19	4.23	TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 2
04/19	4.24	TYPE U POLE (ROUND POLE WITH SQUARE BASE) PIPE TENON DETAILS
04/19	4.25	TYPE U POLE (ROUND POLE WITH SQUARE BASE) TWIN LUMINAIRE BRACKET DETAILS
04/19	4.26	EQUIPMENT MOUNTING HEIGHT DETAILS
04/19	4.27	PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"
04/19	4.28	POLE FOUNDATION ANCHOR BOLTS
04/19	4.29	STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'
04/19	4.30	ALUMINUM TRUSS MAST ARM DETAILS FOR TYPE G, H, AND I POLES
04/19	4.31	SIGNAL MAST ARM TENON DETAIL
04/19	4.32	TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
	<b>T. S. 5</b>	<b>POLE BASES - SPECIAL</b>
04/19	5-0	TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES
04/19	5-1	TYPE 2 CAST ALUMINUM BREAK-AWAY BASE
04/19	5-2	TYPE 3 CAST ALUMINUM BREAK-AWAY BASE
04/19	5-3	INSTALLATION DETAILS FOR POLE FOUNDATIONS WITH TYPE 2 AND 3 BREAK-AWAY BASES
	<b>T. S. 6</b>	<b>HIGHWAY TRAFFIC DATA DETECTORS</b>
03/10	6-1	TYPE C VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS
03/10	6-2 SHT 1	TYPE SA AND SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2 SHT 2	TYPE SA SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2 SHT 3	TYPE SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
12/12	6-3	PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
12/12	6-4 SHT 1	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
12/12	6-4 SHT 2	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/15	6-4 SHT 3	DETAIL A PIEZOELECTRIC SENSOR DETAILS
12/12	6-4 SHT 4	DETAIL B DETECTOR LOOP DETAILS
12/12	6-4 SHT 5	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10	6-5	MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION
03/10	6-6	QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
03/10	6-7	TRAFFIC DATA COLLECTION CABINET INSTALLATION DETAILS
03/10	6-8	TYPE MPD CABINET POLE, BASE AND FOUNDATION INSTALLATION DETAILS

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
TRAFFIC SIGNAL & LIGHTING STANDARDS	NAME HOWARD OLIEN	DATE 5-31-19
PROJECT NO. <b>010 PM 252 H8480 01C</b>	IC-1	OF <b>849</b>
RECORD DRAWING DATA	FEDERAL AID NO. <b>010-D(213)S</b>	REC. DWG. DATE OF

**ADOT STANDARD DRAWINGS**  
**TRAFFIC SIGNAL AND LIGHTING STANDARDS**  
(SHEET 2 OF 2)  
EFFECTIVE APRIL 2019

MADE BY: A. ALZUBI DATE: 4/19  
NO.2 DESCRIPTION OF REVISION REVISED T.S. 15-0 SERIES AND 15-1 SERIES  
MADE BY: L. LOPEZ DATE: 5/15  
NO.1 DESCRIPTION OF REVISION REVISED TS 0-1 ON SHT. UPDATED BORDER TITLE BLOCK.

REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS
	<b>T. S. 7</b>	<b>TRAFFIC SIGNAL DETECTORS</b>
03/10	7-1 SHT 1	LOOP DETECTOR LOCATION SAWCUT PATTERNS AND INSTALLATION DETAILS
03/10	7-1 SHT 2	SAW CUT AND CORING DETAILS
03/15	7-1 SHT 3	SAW CUT AND CORING DETAILS
03/10	7-1 SHT 4	TYPICAL DETECTOR LOOP LEAD-IN ROAD TO PULL BOX DETAIL
03/10	7-1 SHT 5	LOOP DETECTOR LOCATION AND INSTALLATION DETAILS
03/10	7-2	PRE-FORMED LOOP DETECTORS FOR RAMP METERING AND COUNTING
03/10	7-3	PRE-FORMED LOOP DETECTORS IN BRIDGE DECK
03/10	7-4	PRE-FORMED LOOP DETECTORS IN PCCP
03/10	7-5	TYPICAL PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL
	<b>T. S. 8</b>	<b>SIGNAL ASSEMBLIES</b>
01/12	8-0	TRAFFIC SIGNAL VEHICLE FACE ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-1	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-2	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-3	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
10/13	8-4 SHT 1	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION
01/12	8-4 SHT 2	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES
01/12	8-4 SHT 3	VEHICLE TRAFFIC SIGNAL HOUSING/SECTION DETAILS
03/10	8-4 SHT 4	VISORS FOR 8-INCH AND 12-INCH VEHICLE TRAFFIC SIGNAL FACE ASSEMBLIES
01/12	8-5	FLASHING BEACON SIGNAL FACE ASSEMBLY
01/12	8-6	LED LAMP FOR PROGRAMMED VISIBILITY SIGNAL
01/12	8-7 SHT 1	PEDESTRIAN SIGNAL ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-7 SHT 2	PEDESTRIAN SIGNAL ASSEMBLY HOUSING
01/12	8-7 SHT 3	PEDESTRIAN SIGNAL ASSEMBLY VISOR
	<b>T. S. 9</b>	<b>MOUNTING ASSEMBLIES - SIGNAL</b>
03/10	9-0 SHT 1	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-0 SHT 2	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-1	TYPE I AND II MOUNTING ASSEMBLIES
03/10	9-2	TYPE III AND IV MOUNTING ASSEMBLIES
10/13	9-3	TYPE V MOUNTING ASSEMBLY
03/10	9-4	TYPE VI MOUNTING ASSEMBLY
03/10	9-5	TYPE VII MOUNTING ASSEMBLY
03/10	9-6	TYPE VIII MOUNTING ASSEMBLY
03/10	9-7	TYPE IX MOUNTING ASSEMBLY
03/10	9-8	TYPE X MOUNTING ASSEMBLY
03/10	9-9	TYPE XI MOUNTING ASSEMBLY
	<b>T. S. 10</b>	<b>MOUNTING CASTINGS - SIGNAL</b>
03/10	10-1	MISCELLANEOUS SIGNAL MOUNTING PARTS
03/10	10-2	MAST ARM SIGNAL MOUNTING PLUMBIZER
03/10	10-3	SIGNAL MOUNTING POLE PLATE DETAILS
03/10	10-4	TERMINAL COMPARTMENT, SIDE MOUNTED AND POLE TOP MOUNTED
	<b>T. S. 11</b>	<b>PEDESTRIAN DETAILS</b>
03/15	11-1	TYPE I PEDESTRIAN PUSH BUTTON HOUSING ASSEMBLY
03/15	11-2	CAN STYLE PEDESTRIAN PUSH BUTTON
	<b>T. S. 12</b>	<b>FLASHERS</b>
03/10	12-1 SHT 1	ADVANCE WARNING FLASHER POLE DETAIL
03/10	12-1 SHT 2	ADVANCE WARNING FLASHER POLE SIGN MOUNTING DETAILS
03/10	12-1 SHT 3	ADVANCE WARNING FLASHER POLE DETAIL
	<b>T. S. 13</b>	<b>ILLUMINATION - SIGNS</b>
03/10	13-1	SIGN LIGHTING DETAIL FOR TUBULAR SIGN STRUCTURES
03/10	13-2	FUSE PANEL DETAILS FOR SIGN LIGHTING
03/15	13-3	PLACEMENT OF LIGHTING FIXTURES FOR OVERHEAD SIGNS
	<b>T. S. 14</b>	<b>ILLUMINATION - SPECIAL</b>
03/10	14-1 SHT 1	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 2	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 3	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-2	PEDESTRIAN BRIDGE LIGHTING DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS
	<b>T. S. 15</b>	<b>SPAN WIRE SIGNALS AND LIGHTING</b>
04/19	15-0 SHT 1	GENERAL NOTES
04/19	15-0 SHT 2	GENERAL NOTES
04/19	15-0 SHT 3	GENERAL NOTES
04/19	15-1 SHT 1	STEEL POLE TYPICAL DETAILS
04/19	15-1 SHT 2	STEEL POLE FOUNDATION DETAILS
04/19	15-1 SHT 3	STEEL POLE ATTACHMENT DETAILS
04/19	15-1 SHT 4	WOOD POLE TYPICAL DETAILS
04/19	15-1 SHT 5	WOOD POLE TYPICAL DETAILS
04/19	15-1 SHT 6	TYPICAL DETAILS
01/12	15-2	HANGER AND BALANCE ADJUSTER TYPICAL DETAILS
01/12	15-3 SHT 1	SIGNAL ASSEMBLY DETAILS
01/12	15-3 SHT 2	CONDUCTOR ENTRANCE HEADS TYPE A, B AND C
01/12	15-3 SHT 3	ALUMINUM PIPE EXTENSION AND TYPICAL DETAILS
01/12	15-4 SHT 1	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-4 SHT 2	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-4 SHT 3	ADJUSTABLE SIGN HANGER TYPICAL DETAILS
01/12	15-5	ADJUSTABLE HANGER TOP AND EXTENSION DETAILS
01/12	15-6	SIGNAL TETHER CLAMP TYPICAL DETAILS
01/12	15-7	POLE BAND TYPICAL DETAILS
01/12	15-8	WEATHERHEAD TYPICAL DETAILS

ADOT STANDARD DRAWINGS		
REVISION DATES AND STANDARD NO.'S REVIEW		
TRAFFIC SIGNAL AND LIGHTING STANDARDS	NAME HOWARD OLIEN	DATE 5-31-19
PROJECT NO. 010 PM 252 H8480 01C	IC-2	OF 849
RECORD DRAWING FEDERAL AID NO. DATA 010-D(213)S	REC. DWG. DATE	OF

# ADOT STANDARD DRAWINGS

## STRUCTURE DETAIL DRAWINGS

EFFECTIVE APRIL 2019

REVISION DATE	SD NUMBER	SUBJECT
<b>RAILINGS</b>		
01/18	SD 1.01	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (34")
01/18	SD 1.02	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (44")
03/09	SD 1.04	COMBINATION PEDESTRIAN-TRAFFIC BRIDGE RAILING
03/09	SD 1.05	PEDESTRIAN FENCE FOR BRIDGE RAILING SD 1.04
01/18	SD 1.06 (1 OF 4)	TWO TUBE BRIDGE RAILING
01/18	SD 1.06 (2 OF 4)	TWO TUBE BRIDGE RAILING
01/18	SD 1.06 (3 OF 4)	TWO TUBE BRIDGE RAILING
01/18	SD 1.06 (4 OF 4)	TWO TUBE BRIDGE RAILING
04/10	SD 1.11	BARRIER JUNCTION BOX
<b>APPROACHES</b>		
12/07	SD 2.01	APPROACH SLAB DETAILS
12/07	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
12/07	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
09/09	SD 2.04	SLOPE PAVING DETAILS
<b>DECK JOINTS</b>		
06/09	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
12/09	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
12/09	SD 3.03	DECK JOINT ASSEMBLY - RAISED STRIP SEAL
<b>SUBSTRUCTURE</b>		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
<b>DRAINAGE STRUCTURES</b>		
05/15	SD 6.01 (1 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (2 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (3 OF 5)	REINFORCED CONCRETE BOX CULVERTS - EXTENSION DETAILS
02/12	SD 6.01 (4 OF 5)	REINFORCED CONCRETE BOX CULVERTS - STRUCTURAL EXCAVATION & STRUCTURE BACKFILL
05/15	SD 6.01 (5 OF 5)	REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL (0'-30' FILLS)
05/15	SD 6.02 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (0'-15' FILLS)
05/15	SD 6.02 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (15'-30' FILLS)
05/15	SD 6.03 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (0'-15' FILLS)
05/15	SD 6.03 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (15'-30' FILLS)
05/15	SD 6.04 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (0'-15' FILLS)
05/15	SD 6.04 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (15'-30' FILLS)
05/15	SD 6.05 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (0'-15' FILLS)
05/15	SD 6.05 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (15'-30' FILLS)
05/15	SD 6.06 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (0'-15' FILLS)
05/15	SD 6.06 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (15'-30' FILLS)
02/12	SD 6.07	REINFORCED CONCRETE BOX CULVERTS - 16' x 14' EQUIPMENT PASS (0'-20' FILLS)
05/15	SD 6.08 (1 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 3' to 7'
02/12	SD 6.08 (2 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 8' to 12'
05/15	SD 6.08 (3 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 3' to 7'
02/12	SD 6.08 (4 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0° to 20° - CULVERT HEIGHT 8' to 12'
05/15	SD 6.08 (5 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 3' to 7'
02/12	SD 6.08 (6 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 8' to 12'
05/15	SD 6.08 (7 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 3' to 7'
02/12	SD 6.08 (8 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25° to 45° - CULVERT HEIGHT 8' to 12'
05/15	SD 6.09 (1 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 2 : 1 SLOPE
05/15	SD 6.09 (2 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 4 : 1 SLOPE
05/15	SD 6.09 (3 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 6 : 1 SLOPE
05/15	SD 6.10 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 3' to 7'
02/12	SD 6.10 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 8' to 12'
02/12	SD 6.11 (1 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON DETAILS
05/15	SD 6.11 (2 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (2 : 1 SLOPE)
05/15	SD 6.11 (3 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (4 : 1 SLOPE)
05/15	SD 6.11 (4 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (6 : 1 SLOPE)
07/12	SD 6.30 (1 OF 5)	PIPE CULVERT HEADWALLS - MISCELLANEOUS DETAILS
07/12	SD 6.30 (2 OF 5)	PIPE CULVERT HEADWALLS - INLET AND OUTLET - 18" to 42" PIPES
07/12	SD 6.30 (3 OF 5)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (4 OF 5)	PIPE CULVERT HEADWALLS - SKEWED INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (5 OF 5)	PIPE CULVERT HEADWALLS - MULTI-PIPE - 48" to 84" PIPES
07/12	SD 6.31 (1 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET
07/12	SD 6.31 (2 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 2 : 1 SLOPE
07/12	SD 6.31 (3 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 4 : 1 SLOPE
07/12	SD 6.31 (4 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 6 : 1 SLOPE
07/12	SD 6.31 (5 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET
07/12	SD 6.31 (6 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 2 : 1 SLOPE
07/12	SD 6.31 (7 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 4 : 1 SLOPE
07/12	SD 6.31 (8 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 6 : 1 SLOPE
07/12	SD 6.32 (1 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET
07/12	SD 6.32 (2 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 2 : 1 SLOPE
07/12	SD 6.32 (3 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 4 : 1 SLOPE
07/12	SD 6.32 (4 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 6 : 1 SLOPE
07/12	SD 6.32 (5 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET
07/12	SD 6.32 (6 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 2 : 1 SLOPE
07/12	SD 6.32 (7 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 4 : 1 SLOPE
07/12	SD 6.32 (8 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 6 : 1 SLOPE

REVISION DATE	SD NUMBER	SUBJECT
<b>DRAINAGE STRUCTURES (Continued)</b>		
07/12	SD 6.33 (1 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET
07/12	SD 6.33 (2 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 2 : 1 SLOPE
07/12	SD 6.33 (3 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 4 : 1 SLOPE
07/12	SD 6.33 (4 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 6 : 1 SLOPE
07/12	SD 6.33 (5 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET
07/12	SD 6.33 (6 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 2 : 1 SLOPE
07/12	SD 6.33 (7 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 4 : 1 SLOPE
07/12	SD 6.33 (8 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 6 : 1 SLOPE
07/12	SD 6.34 (1 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET
07/12	SD 6.34 (2 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 2 : 1 SLOPE
07/12	SD 6.34 (3 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 4 : 1 SLOPE
07/12	SD 6.34 (4 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 6 : 1 SLOPE
07/12	SD 6.34 (5 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET
07/12	SD 6.34 (6 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 2 : 1 SLOPE
07/12	SD 6.34 (7 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 4 : 1 SLOPE
07/12	SD 6.34 (8 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 6 : 1 SLOPE
07/12	SD 6.35 (1 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITHOUT APRON
07/12	SD 6.35 (2 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITH OUTLET APRON
07/12	SD 6.36 (1 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRONS
07/12	SD 6.36 (2 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 2 : 1 SLOPE
07/12	SD 6.36 (3 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 4 : 1 SLOPE
07/12	SD 6.36 (4 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 6 : 1 SLOPE
<b>RETAINING WALLS</b>		
01/15	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
01/15	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
01/15	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
01/15	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
01/15	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
09/10	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
09/10	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
<b>SOUND BARRIER WALLS</b>		
04/10	SD 8.01	SOUND BARRIER WALL (CONCRETE)
01/13	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
01/13	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
<b>TRAFFIC STRUCTURES</b>		
04/19	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
04/19	SD 9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
04/19	SD 9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
04/19	SD 9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
04/19	SD 9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
04/19	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
04/19	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
04/19	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
04/19	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
04/19	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
04/19	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
04/19	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
04/19	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
04/19	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
04/19	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
04/19	SD 9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.53 (1 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.53 (2 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (3 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (4 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
04/19	SD 9.53 (5 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS

ADOT STANDARD DRAWINGS		
REVISION DATES and STANDARD NO.'s REVIEW		
STRUCTURES Standards	NAME	DATE
	JASON CARLAFTES	5-31-19
PROJECT NO.	010 PM 252 H8480 01C	ID of 849
RECORD DRAWING FEDERAL AID NO.	010-D(213)S	REC. DWG. DATE

# ADOT STANDARD DRAWINGS

ITS STANDARDS  
EFFECTIVE APRIL 2019

REVISION DATE	STANDARD NUMBER	SUBJECT: ITS STANDARDS
July-14	FM-0.01	SYMBOLS AND ABBREVIATIONS
Aug-13	FM-1.01	TRENCH DETAILS, FMS TRUNKLINE
Aug-13	FM-1.02	TRENCH UNDER PAVEMENT, FMS TRUNKLINE
Aug-13	FM-1.03	BURIED CONDUIT AROUND OBSTRUCTION, DIRECTIONAL DRILLING
Aug-13	FM-1.04	CONDUIT REQUIREMENTS FOR DMS, RMC TO PVC CONDUIT CONNECTION, THROUGH WALL CONDUIT
Aug-13	FM-1.05	CONDUIT MOUNTING DETAILS
Aug-13	FM-1.06	CONDUIT EXPANSION, COUPLING AND JUNCTION BOX, INSTALLATION PLAN
Aug-13	FM-1.07	FMS TRUNK LINE IN BOX GIRDER BRIDGE
Aug-13	FM-1.08	FMS TRUNKLINE IN I-BEAM OR I-GIRDER BRIDGE
Aug-13	FM-2.01	PULL BOX ADJACENT TO FMS PULL BOX
Aug-13	FM-2.02	PULL BOX NO. 9 CABINET CONDUIT INTERFACE PLANS
Aug-13	FM-2.03	PULL BOX NO. 9 DETAILS
Aug-13	FM-2.04	NO. 9 PULL BOX CONDUIT ROUTING AND CABLE RACKING DETAILS
Aug-13	FM-2.05	No. 9 PULL BOX TORSION ASSIST COVER
Aug-13	FM-2.06	PULL BOX NO. 7 TYPICAL INSTALLATION
Aug-13	FM-2.07	BURIED PULL BOX NO. 7 TYPICAL INSTALLATION
Aug-13	FM-2.08	SPLIT NO. 9 PULL BOX
Aug-13	FM-3.01	RAMP METER CABINET DETAILS (SHEET 1 of 2)
Aug-13	FM-3.02	RAMP METER CABINET DETAILS (SHEET 2 of 2)
Aug-13	FM-3.03	RAMP METER CABINET SPECIAL DETAILS
Aug-13	FM-3.04	RAMP METER CABINET ACCESSORIES
Aug-13	FM-3.05	RAMP METER FIELD PANEL DETAILS
Aug-13	FM-3.06	RAMP METER FIELD PANEL CONNECTIONS
Aug-13	FM-3.07	RAMP METER SIGNAL POWER INTERRUPT RELAY AND PIN ASSIGNMENTS
Aug-13	FM-3.08	POWER DISTRIBUTION ASSEMBLY CONNECTOR AND INSTALLATION DETAILS
Aug-13	FM-3.09	POWER DISTRIBUTION ASSEMBLY #4 (PDA4) SCHEMATIC DIAGRAM
Aug-13	FM-3.10	RAMP METER CI HARNESS CONNECTIONS
Aug-13	FM-3.11	CCTV CABINET DETAILS (SHEET 1 of 2)
Aug-13	FM-3.12	CCTV CABINET DETAILS (SHEET 2 of 2)
Aug-13	FM-3.13	CABINET NUMBER DECAL DETAIL
Aug-13	FM-3.14	TRANSFORMER CABINET, EXTERNAL POWER DISCONNECT
Aug-13	FM-3.15	TRANSFORMER, 3kVA & 7.5kVA, DRY TYPE DETAILS AND WIRING DIAGRAMS
Aug-13	FM-3.16	TRANSFORMER, 10kVA & 25kVA, DRY TYPE DETAILS AND WIRING DIAGRAMS
Aug-13	FM-3.17	CLEAR ZONES, UNPROTECTED EQUIPMENT
Aug-13	FM-3.18	TYPE II LOAD CENTER
Aug-13	FM-3.19	TYPE IV LOAD CENTER FOUNDATION AND CABINET DETAIL
Aug-13	FM-3.20	TYPE IV MODIFIED LOAD CENTER
July-14	FM-3.21	RAMP METER CABINET FOUNDATION W/O TRANSFORMER
July-14	FM-3.22	RAMP METER CABINET WITH TRANSFORMER, FOUNDATION
July-14	FM-3.23	SKYLINE 336S DMS CABINET FOUNDATION DETAILS
July-14	FM-3.23A	SKYLINE 332 DMS CABINET FOUNDATION DETAILS
July-14	FM-3.24	SKYLINE 336S DMS & TRANSFORMER CABINET FOUNDATION DETAILS
July-14	FM-3.24A	SKYLINE 332 DMS & TRANSFORMER CABINET FOUNDATION DETAILS
July-14	FM-3.25	NOT USED
Aug-13	FM-3.26	TRANSFORMER CABINET FOUNDATION
Oct-17	FM-3.27	DAKTRONICS DMS CABINET FOUNDATION DETAILS
Oct-17	FM-3.28	DAKTRONICS DMS & TRANSFORMER CABINET FOUNDATION DETAILS
Aug-13	FM-3.29	DMS CABINET ADAPTER AND ELEVATOR BASE DETAILS
Aug-13	FM-4.01	CCTV CABINET BLOCK DIAGRAM
Aug-13	FM-4.02	FREEWAY MANAGEMENT SYSTEM CABINET BLOCK ETHERNET DIAGRAM
Aug-13	FM-4.03	DMS CABINET ETHERNET BLOCK DIAGRAM
Aug-13	FM-5.01	DETECTION DEFINITION
Jun-16	FM-5.02	TYPICAL DETECTOR LOOP INSTALLATION DETAILS
Aug-13	FM-5.03	TYPICAL PREFORMED DETECTOR LOOP INSTALLATION DETAILS
Aug-13	FM-5.04	DETECTOR LOOP IN AC PAVEMENT INSTALLATION LAYOUT
Aug-13	FM-5.05	DETECTOR LOOP IN PCCP PAVEMENT INSTALLATION LAYOUT
Aug-13	FM-5.06	DETECTOR LOOP TEST FORM 1
Aug-13	FM-5.07	DETECTOR LOOP TEST FORM 2 PART A
Aug-13	FM-5.08	DETECTOR LOOP TEST FORM 2 PART B
Apr-19	FM-6.01	RAMP METER DETAILS
Apr-19	FM-6.02	SINGLE-LANE RAMP METER
Apr-19	FM-6.03	SINGLE-LANE RAMP METER WITH FRONTAGE ROAD
Apr-19	FM-6.04	TWO-LANE RAMP METER
Apr-19	FM-6.05	TWO-LANE RAMP METER WITH FRONTAGE ROAD
Apr-19	FM-6.06	RAMP METER WITH OBSTRUCTION INSTALLATION DETAILS
Apr-19	FM-7.01	CCTV POLE CCTV CABINET MOUNTING DETAILS AND FIELD ORIENTATION
Apr-19	FM-7.02	CCTV POLE AND MOUNTING DETAILS
Apr-19	FM-7.03	CCTV POLE MOUNTING PLATE DETAILS

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW		
ITS STANDARD DRAWINGS	NAME	DATE
	TOM McCULLOUGH	5-31-19
PROJECT NO.	IE	OF 849
RECORD DRAWING DATA	FEDERAL AID NO. 010-D(213)S	REC. DWG. DATE OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	2	849	

010 PM 252

### DESIGN DATA

	ADT 2009	ADT 2040
I-10		
Sunset Road to Ruthrauff Road:	105,342	221,800
South of Ruthrauff Road:	114,664	231,200
I-10 Eastbound Frontage Road		
Sunset Road to Ruthrauff Road:	2,170	1,890
South of Ruthrauff Road:	1,813	3,340
I-10 Westbound Frontage Road		
Sunset Road to Ruthrauff Road:	1,303	4,130
South of Ruthrauff Road:	1,631	1,820
El Camino Del Cerro (West of I-10):	13,040	25,620
Ruthrauff Road (East of I-10):	23,680	49,170

### MIDPOINT OF PROJECT

Central Zone  
State Plane Coordinates

X=974,310  
Y=471,990

### DESIGN SPEEDS

I-10	=	70 MPH
Frontage Roads	=	50 MPH
Ruthrauff Road/Camino del Cerro	=	50 MPH
Ramps:		
Body	=	50 MPH
Entrance at Gore	=	60 MPH
Exit at Gore	=	65 MPH
Crossroad Terminal	=	35 MPH
Local Collector Streets	=	30 MPH
Residential Streets	=	25 MPH

EARTHWORK FACTORS	
Shrink/Swell	Ground Compaction
15%	0.30'
Shrink	

### LENGTH OF TOTAL PROJECT

I-10 Eastbound & Westbound Sta 5186+00.00 to 5242+00.00 MP 251.85 to MP 252.92	=	5,600.00'	=	1.06 Miles
I-10 Eastbound Interim Sta 195+00 to 208+41.64	=	1,341.64'	=	0.25 Miles
I-10 Westbound Interim Sta 97+46.00 to 128+91.78	=	3,145.78'	=	0.60 Miles
Eastbound Frontage Road Sta 1979+70.18 to 2015+00.57	=	3,530.39'	=	0.67 Miles
Westbound Frontage Road Sta 1985+99.87 to 2022+00.00	=	3,600.13'	=	0.68 Miles
Ruthrauff Road Sta 81+00.00 to 118+10.00	=	3,710.00'	=	0.70 Miles
Local Collector Streets				
Highway/Davis Sta 16+22.00 to 25+75.00	=	953.00'	=	0.18 Miles
North Loop Road Sta 11+26.02 to 20+00.00	=	873.98'	=	0.17 Miles
Residential Streets				
Maryvale Connector 17+00.00 to 20+00.00	=	300.00'	=	0.06 Miles
South Maryvale Ave 20+00.00 to 24+47.40	=	447.40'	=	0.08 Miles

Total Gross Length = 23,502.32' = 4.45 Miles

### GENERAL NOTES

The roadway plans have been designed utilizing the 2012 Construction Standard Drawings (C-Series) and current revisions. Refer to the IA sheet for a listing of current revision dates.

R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

The project roadway shall be striped by the Contractor in accordance with the current edition of the Signing and Marking Standard Drawings (M and S-Series) and the pavement marking plans.

For R/W information not shown, see Right of Way project No. 010 PM 252 H8480 01R.

Bench markers will be furnished by the State and shall be placed by the Contractor. Std C-21.20.

Pavement lift thickness is nominal.

Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical locations of an existing utility are shown, the location has been verified by field survey methods. The Contractor shall comply with all current Blue Stake laws and Section 107.15 of the Specifications.

Delineators, object markers and mile post markers shall be removed and reset as required.

The average project elevation is 2230.

Changes in location or length of spillway or downdrain installation may be made by the Engineer to improve drainage conditions.

Slope rounding shall be applied per Std C-02 series unless otherwise noted.

An Average User Delay Cost of \$31,500/day has been estimated for this project.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DESIGN DATA SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C		010-D(213)S		OF





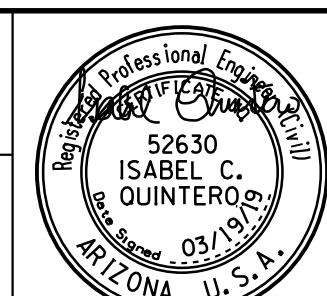
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	5	849	

010 PM 252

### INDEX OF SHEETS

DWG NO.	SHEET NO.	SHEET TITLE	DWG NO.	SHEET NO.	SHEET TITLE
		STRUCTURES CONT.			EROSION CONTROL/LANDSCAPE
S-2.01	656	Ruthrauff UPRR OP General Plan & Index of DWGS	A-2.01 - A-2.02	734	Architectural Treatment Summary Sheet
S-2.02	657	Ruthrauff UPRR OP Location Plan	A-2.03	735-736	Abutment Elevations Sample Sheet
S-2.03	658	Ruthrauff UPRR OP Elevation and Profile	A-2.04	737	Abutment 2 dimensions
S-2.04	659	Ruthrauff UPRR OP Typical Section	A-2.05	738	Barrier Detail Sheet
S-2.05	660	Ruthrauff UPRR OP General Notes and Quantities	A-2.06	739	Pier Details Sheet
S-2.06 - S-2.07	661-662	Ruthrauff UPRR OP Railroad Notes 1 & 2		740	Pedestrian Fence Detail Sheet
S-2.08	663	Ruthrauff UPRR OP Foundation Layout	E-1.01	741	SWPPP Index Sheet
S-2.09	664	Ruthrauff UPRR OP Drilled Shaft Details	E-1.02	742	Stormwater Quality Protection and Erosion/Sediment Control Summary Sheet
S-2.10	665	Ruthrauff UPRR OP Abutment 1 Plan and Elevation	E-2.01 - E-2.07	743-747	Stormwater Quality Protection and Erosion/Sediment Control Detail Sheet
S-2.11	666	Ruthrauff UPRR OP Abutment 2 Plan and Elevation	E-3.01 - E-3.08	748-755	Stormwater Quality Protection and Erosion/Sediment Plan - 1-10 Mainline
S-2.12	667	Ruthrauff UPRR OP Abutment 1 Details	E-3.09 - E-3.11	756-758	Stormwater Quality Protection and Erosion/Sediment Plan - Ruthrauff
S-2.13 - S-2.16	668	Ruthrauff UPRR OP Abutment 2 Details	R-1.01	759	Landscape Summary Sheet
S-2.17	669-672	Ruthrauff UPRR OP Girder Details	R-2.01 - R-2.03	760-763	Landscape Detail Sheet
S-2.18	673	Ruthrauff UPRR OP Framing Plan	R-3.01 - R-3.11	764-774	Landscape Plan - 1-10 Mainline
S-2.19	674	Ruthrauff UPRR OP Deck Plan	R-4.01 - R-4.04	775-778	Landscape Plan - Ruthrauff
S-2.20	675	Ruthrauff UPRR OP Deck Section and Reinforcing	I-1.01	779	Irrigation Summary Sheet
S-2.21	676	Ruthrauff UPRR OP Deck Details	I-1.02	780	Four Wire Sizing Charts and Diagrams
S-2.22	677	Ruthrauff UPRR OP Superstructure Details	I-1.03	781	Emitter Schedules
S-2.23 - S-2.24	678-679	Ruthrauff UPRR OP Abutment Diaphragm Details	I-2.01 - I-2.01	782-783	Irrigation Mainline Valve Masterplan Sheets
S-2.25 - S-2.26	680-681	Ruthrauff UPRR OP Miscellaneous Details	I-3.01 - I-3.07	784-790	Irrigation Detail Sheets
S-2.27	682	Ruthrauff UPRR OP Construction Sequence	I-4.01 - I-4.08	791-798	Irrigation Plan - 1-10 Mainline
S-2.28	683	Ruthrauff UPRR OP Camber Details	I-4.09 - I-4.11	799-801	Irrigation Plan - Ruthrauff
S-2.29	684	Ruthrauff UPRR OP Screed Elevations			UTILITIES SHEETS
S-2.30	685	Ruthrauff UPRR OP Screed Rail Elevations			Utility Cover
S-2.31	686	Ruthrauff UPRR OP UPRR Underdeck Lighting & Fence Details			Utility Plans
S-2.32 - S-2.36	687-691	Ruthrauff Road - UPRR Overpass Foundation Data	U-1.01	802	Water Cover Sheet
S-3.01	692	Davis Avenue Frame General Plan	U-1.02 - U-1.13	803-814	Water Notes & Legend
S-3.02	693	Davis Avenue Frame Elevation and Typical Section	U-2.01	815	Geometric Control Sheet
S-3.03	694	Davis Avenue Frame General Notes and Quantities	U-2.02	816	Water Summary Quantities
S-3.04	695	Davis Avenue Frame Foundation Plan	U-2.03	817	Water Transmission Line Plan & Profile Sheets
S-3.05	696	Davis Avenue Frame Structure Reinforcement	U-2.04	818	Water Distribution Line Plan & Profile Sheets
S-3.06	697	Davis Avenue Frame Miscellaneous Details	U-2.05 - U-2.09	819-824	Water Lateral Plan & Profiles
S-3.07 - S-3.11	698-702	Davis Avenue Frame Foundation Data	U-2.10 - U-2.15	825-829	Sanitary Sewer Cover Sheet
S-7.01	703	Retaining Wall - Key Plan	U-2.16	830	Sanitary Sewer General Notes
S-7.02	704	Retaining Wall - General Notes & Quantities	U-3.01	831	Frame and Cover Adjust
S-7.03 - S-7.05	705-707	Retaining Wall - Plan & Elevation - Wall WB-1	U-3.02 - U-3.03	832-833	Sanitary Sewer Plan & Profile Sheets
S-7.06	708	Retaining Wall - Plan & Elevation - Wall WB-2	U-3.04	834	PCRWRD Standard Details
S-7.07 - S-7.10	709-712	Retaining Wall - Plan & Elevation - Wall WB-3	U-3.05 - U-3.08	835-838	Flow Management Plan
S-7.11 - S-7.13	713-715	Retaining Wall - Plan & Elevation - Wall WB-4	U-3.09 - U-3.15	839-845	Sewer Removals
S-7.14	716	Retaining Wall - Plan & Elevation - Wall EB-1	U-3.16 - U-3.17	846-847	
S-7.15 - S-7.17	717-719	Retaining Wall - Plan & Elevation - Wall EB-2	U-3.18 - U-3.19	848-849	
S-7.18 - S-7.19	720-721	Retaining Wall - Plan & Elevation - Wall RRN-1			
S-7.20 - S-7.21	722-723	Retaining Wall - Plan & Elevation - Wall RRS-1			
S-7.22	724	Retaining Wall - Plan & Elevation - Wall RR-1			
S-7.23	725	Retaining Wall - Plan & Elevation - Wall RR-2			
S-7.24	726	Retaining Wall - Plan & Elevation - Wall RR-3			
S-7.25	727	Retaining Wall - Plan & Elevation - Wall RR-4			
S-7.26 - S-7.31	728-733	Retaining Wall - Details			

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DESIGN SHEET
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC		010-D(213)S	Expires 9/30/2019 DWG NO. G-1.04



# EARTHWORK SUMMARY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	6	849	


010 PM 252

LOCATION	ROAD EXCAVATION		OVEREXCAVATION		EMBANKMENT	DRAINAGE		CHANNEL EXC	RIPRAP EXC	PIPE		TRENCH BACKFILL	STRUCTURAL		GRND COMP (0.30')	
	ROUM	RC	ROUM	RC		EXC	BACKFILL			EXC	BACKFILL		EXC	BACKFILL		
<b>PHASE 1</b>																
Ruthrauff Rd	3,348	0	11,139	0	11,971	0	0	0	0	0	0	0	0	0	1,222	<b>PHASE 1 Subtotal</b>
Sideroads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>Total Excavation</i>
Minor Sideroads	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>Available Excavation</i>
Driveways	263	0	0	0	17	0	0	0	0	0	0	0	0	0	0	<i>Total Embankment</i>
Detours	17,170	0	0	0	2,335	0	0	0	0	0	0	0	0	0	0	<i>Required Excavation</i>
Topsoil	9,866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>Shrink (15%)</i>
Drainage	0	0	0	0	0	17,969	26	17,971	795	7,122	1,310	3,915	2,359	1,074	0	<i>Borrow (In Place)</i>
<b>PHASE 1 TOTAL</b>	<b>30,648</b>	<b>0</b>	<b>11,139</b>	<b>0</b>	<b>14,323</b>	<b>17,969</b>	<b>26</b>	<b>17,971</b>	<b>795</b>	<b>7,122</b>	<b>1,310</b>	<b>3,915</b>	<b>2,359</b>	<b>1,074</b>	<b>1,222</b>	
<b>PHASE 2</b>																
1-10	31,752	33,158	29,663	22,781	16,446	0	0	0	0	0	0	0	0	0	4,590	<b>PHASE 2 Subtotal</b>
1-10 InterIm	2,530	1,485	0	0	12,747	0	0	0	0	0	0	0	0	0	0	<i>Total Excavation</i>
Ramp B	258	1,141	312	1,392	0	0	0	0	0	0	0	0	0	0	0	<i>Available Excavation</i>
Ramp D	1,853	0	1,143	0	0	0	0	0	0	0	0	0	0	0	0	<i>Total Embankment</i>
EBFR North	2,519	2,350	3,204	2,649	14,622	0	0	0	0	0	0	0	0	0	0	<i>Required Excavation</i>
EBFR South	5,145	1,574	6,139	3	35,008	0	0	0	0	0	0	0	0	0	0	<i>Shrink (15%)</i>
Detours	7,639	0	0	0	152	0	0	0	0	0	0	0	0	0	0	<i>Haul In</i>
Topsoil	11,846	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>Borrow (In Place)</i>
Drainage	0	0	0	0	0	1,882	993	0	27	11,924	2,586	6,153	4,246	791	0	
Ruthrauff Rd	866	0	4,526	0	150,903	0	0	0	0	0	0	0	0	0	3,707	
Sideroads	5,402	0	2,859	0	6,342	0	0	0	0	0	0	0	0	0	0	
Minor Sideroads	430	0	0	0	7	0	0	0	0	0	0	0	0	0	1,448	
Driveways	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Misc Emb Adjustments	0	0	0	0	19,508	0	0	0	0	0	0	0	0	0	0	
Ruthrauff Structure	0	0	0	0	0	0	0	0	0	0	0	0	155	100	0	
Davis Avenue	0	0	0	0	0	0	0	0	0	0	0	0	1,830	740	0	
Structures	0	0	0	0	0	0	0	0	0	0	0	0	0	84,136	0	
<b>PHASE 2 TOTAL</b>	<b>69,738</b>	<b>39,708</b>	<b>47,846</b>	<b>26,824</b>	<b>255,735</b>	<b>1,882</b>	<b>993</b>	<b>0</b>	<b>27</b>	<b>11,924</b>	<b>2,586</b>	<b>6,153</b>	<b>6,231</b>	<b>85,767</b>	<b>9,745</b>	

ROUM - Removal of Unsuitable Material  
 RC - Removal and Compaction of Material

**NOTES:**

1. Pipe excavation, riprap excavation, pipe backfill, and bedding material are non-pay items.
2. Earthwork calculations assume that pipe backfill, structure backfill, riprap, riprap bedding material and pipe bedding material are imported materials.
3. Earthwork calculations assume that material for topsoil is to be imported.
4. Earthwork calculations assume that all excavation generated by drainage and structures related items is considered unsuitable.

DESIGN	KLY	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MM	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>EARTHWORK SUMMARY</b>	
ROUTE	LOCATION			RUTHRAUFF ROAD TI	
1-10					
TRACS NO. H 8480 OIC			010-D(213)S		
			Expires 3/31/2020 DWG NO. G-1.05		

# EARTHWORK SUMMARY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	7	849	

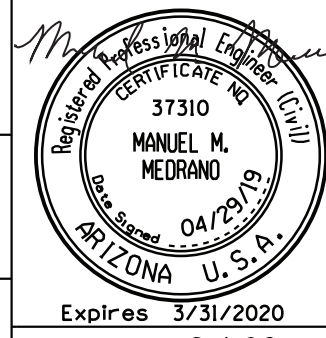
010 PM 252

LOCATION	ROAD EXCAVATION		OVEREXCAVATION		EMBANKMENT	DRAINAGE		CHANNEL EXC	RIPRAP EXC	PIPE		TRENCH BACKFILL	STRUCTURAL		GRND COMP (0.30')	
	ROUM	RC	ROUM	RC		EXC	BACKFILL			EXC	BACKFILL		EXC	BACKFILL		
<b>PHASE 3B Subtotal</b>																
<i>PHASE 3B</i>																
<i>I-10</i>	20,988	28,104	22,364	18,340	31,655	0	0	0	0	0	0	0	0	0	5,296	
<i>Ramp A</i>	37	325	358	527	0	0	0	0	0	0	0	0	0	0	0	<i>Total Excavation</i>
<i>Ramp C</i>	28	0	103	0	9	0	0	0	0	0	0	0	0	0	0	<i>130,737</i>
<i>EBFR North</i>	310	1,025	532	2,031	22	0	0	0	0	0	0	0	0	0	0	<i>Available Excavation</i>
<i>WBFR North</i>	2,389	3,158	1,211	1,189	19,297	0	0	0	0	0	0	0	0	0	0	<i>57,075</i>
<i>WBFR South</i>	8,284	2,196	4,612	181	31,588	0	0	0	0	0	0	0	0	0	0	<i>Total Embankment</i>
<i>Detours</i>	4,014	0	0	0	935	0	0	0	0	0	0	0	0	0	0	<i>205,824</i>
<i>Topsoil</i>	6,806	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>Required Excavation</i>
<i>Drainage</i>	0	0	0	0	0	1,625	632	0	232	7,023	1,840	2,979	4,246	791	0	<i>242,146</i>
<i>Ruthrauff Rd</i>	0	0	0	0	34,059	0	0	0	0	0	0	0	0	0	545	<i>Shrink (15%)</i>
<i>Freeway Ramp</i>	0	0	0	0	30,970	0	0	0	0	0	0	0	0	0	0	<i>8,561</i>
<i>Structures</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	133,123	0	<i>Haul In</i>
<b>PHASE 3B TOTAL</b>	<b>42,857</b>	<b>34,807</b>	<b>29,180</b>	<b>22,267</b>	<b>148,535</b>	<b>1,625</b>	<b>632</b>	<b>0</b>	<b>232</b>	<b>7,023</b>	<b>1,840</b>	<b>2,979</b>	<b>4,246</b>	<b>133,914</b>	<b>5,841</b>	<i>Borrow (In Place)</i>
																<b>-157,310</b>
<b>PHASE 3C Subtotal</b>																
<i>PHASE 3C</i>																
<i>I-10</i>	10,839	6,762	9,590	5,523	27,478	0	0	0	0	0	0	0	0	0	0	
<i>Ramp A</i>	0	2,583	0	1,738	0	0	0	0	0	0	0	0	0	0	0	<i>Total Excavation</i>
<i>WBFR North</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<i>36,766</i>
																<i>Available Excavation</i>
<b>PHASE 3C TOTAL</b>	<b>10,839</b>	<b>9,345</b>	<b>9,590</b>	<b>6,992</b>	<b>27,478</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<i>Total Embankment</i>
																<i>44,060</i>
																<i>Required Excavation</i>
																<i>51,835</i>
																<i>Shrink (15%)</i>
																<i>2,451</i>
																<i>Haul In</i>
																<i>0</i>
																<i>Borrow (In Place)</i>
																<b>-30,174</b>
																<i>Borrow (In Place) Total</i>
<b>Project Total</b>	<b>154,082</b>	<b>83,860</b>	<b>97,755</b>	<b>56,083</b>	<b>446,072</b>	<b>21,476</b>	<b>1,621</b>	<b>17,971</b>	<b>1,054</b>	<b>26,069</b>	<b>5,736</b>	<b>13,047</b>	<b>12,836</b>	<b>220,755</b>	<b>16,808</b>	<i>Waste Total</i>
																<b>497,766</b>
																<b>0</b>

ROUM - Removal of Unsuitable Material  
 RC - Removal and Compaction of Material

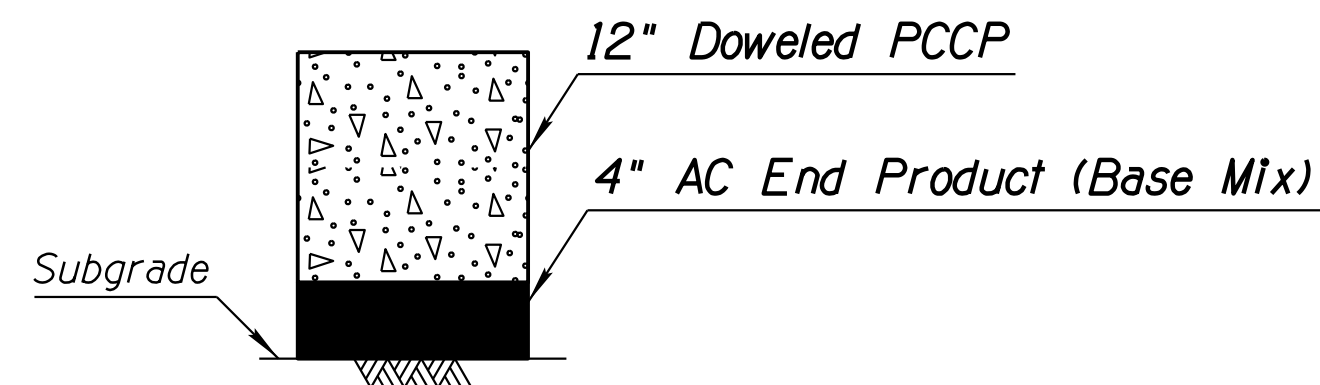
**NOTES:**

1. Pipe excavation, riprap excavation, pipe backfill, and bedding material are non-pay items.
2. Earthwork calculations assume that pipe backfill, structure backfill, riprap, riprap bedding material and pipe bedding material are imported materials.
3. Earthwork calculations assume that material for topsoil is to be imported.
4. Earthwork calculations assume that all excavation generated by drainage and structures related items is considered unsuitable.

DESIGN	KLY	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MM	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>EARTHWORK SUMMARY</b>	
ROUTE	LOCATION			RUTHRAUFF ROAD TI	
1-10					
TRACS NO. H 8480 OIC			010-D(213)S		
			Expires 3/31/2020 DWG NO. G-1.06		

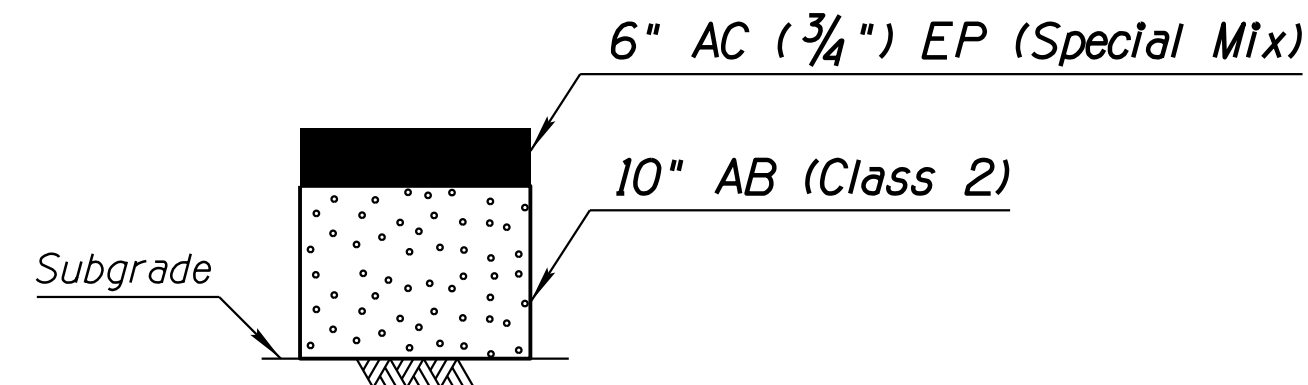
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	8	849	

010 PM 252



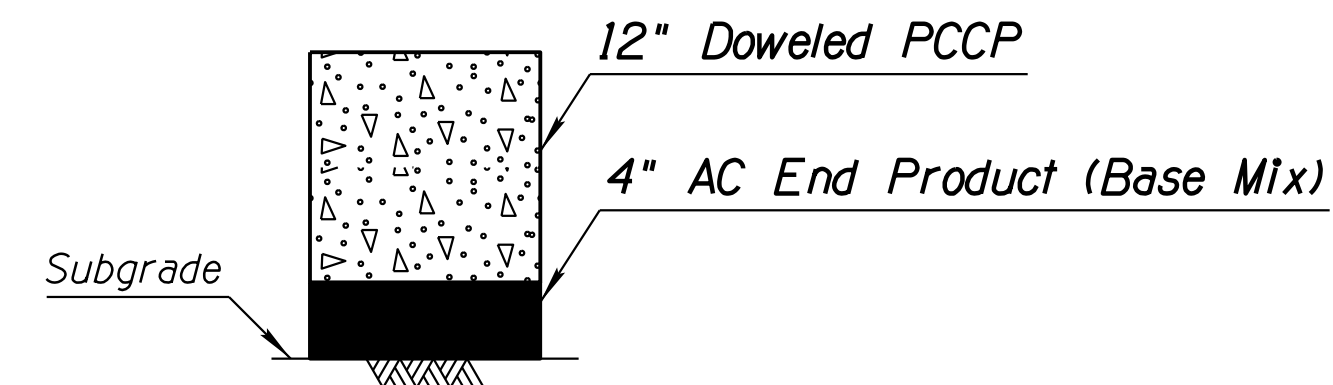
Total Thickness = 16"

**PAVEMENT STRUCTURAL SECTION NO. 1**  
I-10 Mainline  
(Travel Lanes and Auxiliary Lanes)



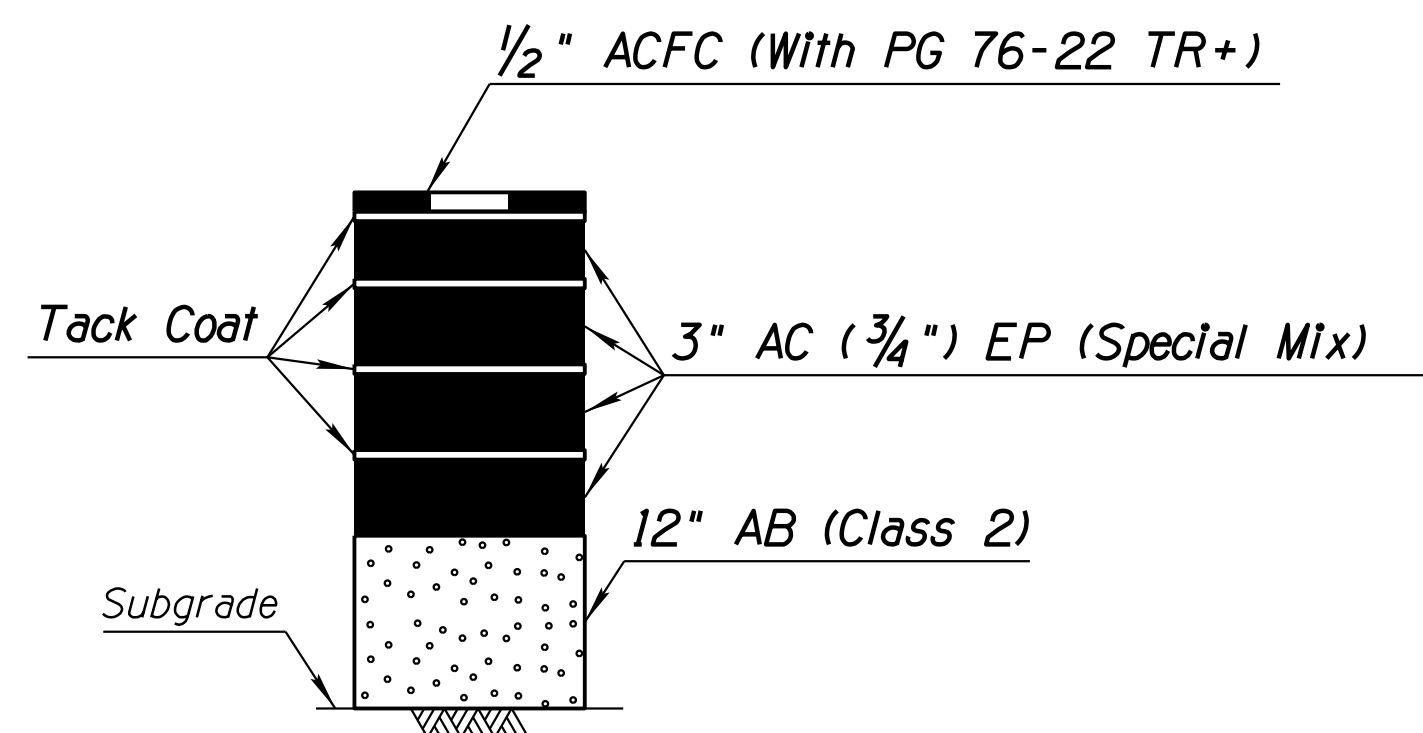
Total Thickness = 16"

**PAVEMENT STRUCTURAL SECTION NO. 2**  
I-10 Mainline (Inside Shoulders)



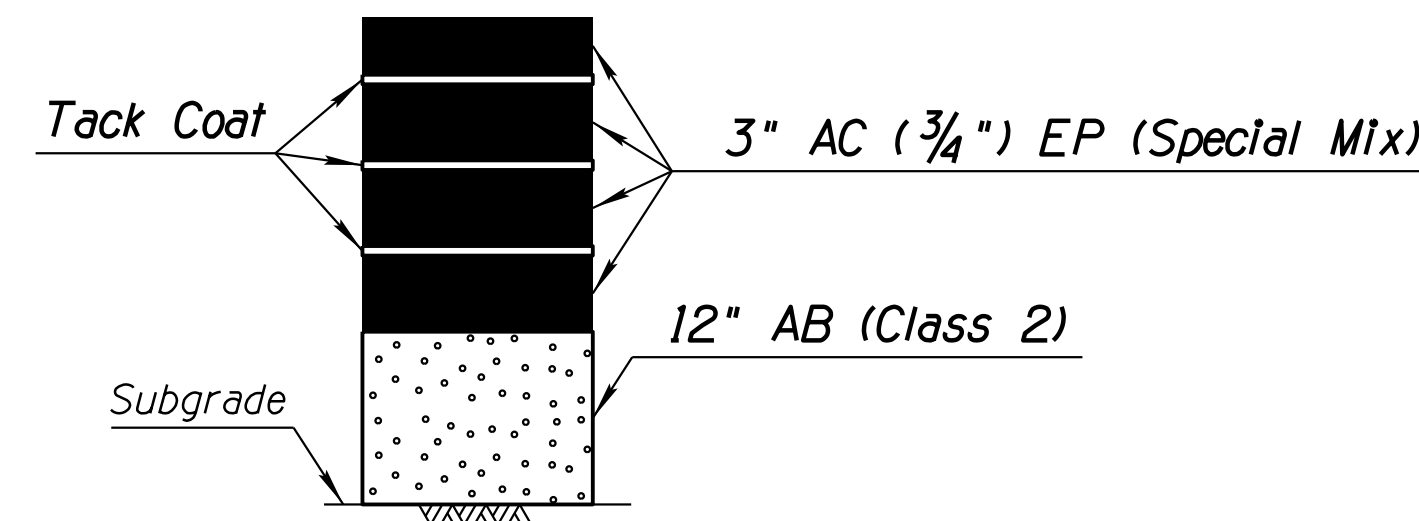
Total Thickness = 16"

**PAVEMENT STRUCTURAL SECTION NO. 2A**  
I-10 Mainline  
(Outside Shoulders)



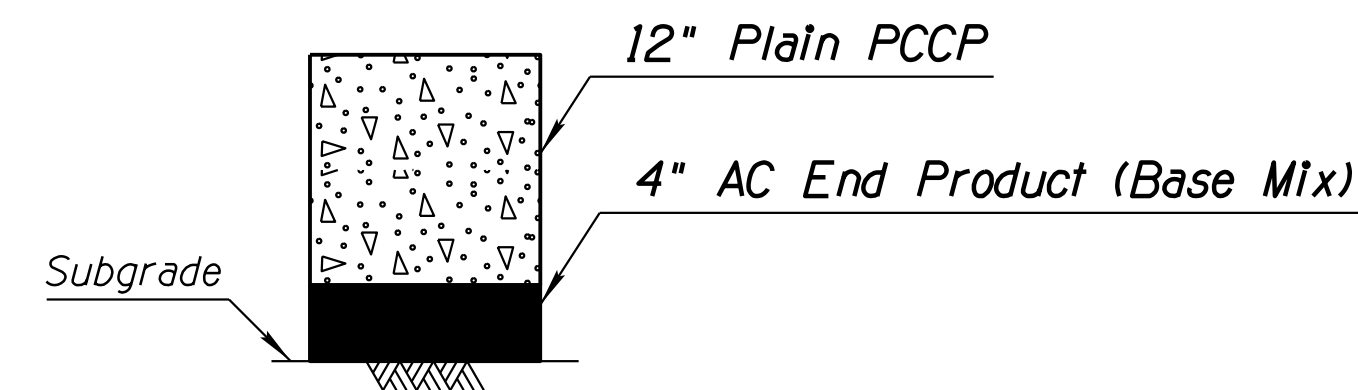
Total Thickness = 24 1/2"

**PAVEMENT STRUCTURAL SECTION NO. 3**  
I-10 Mainline EB/WB Interim and Widening  
(Travel Lanes)



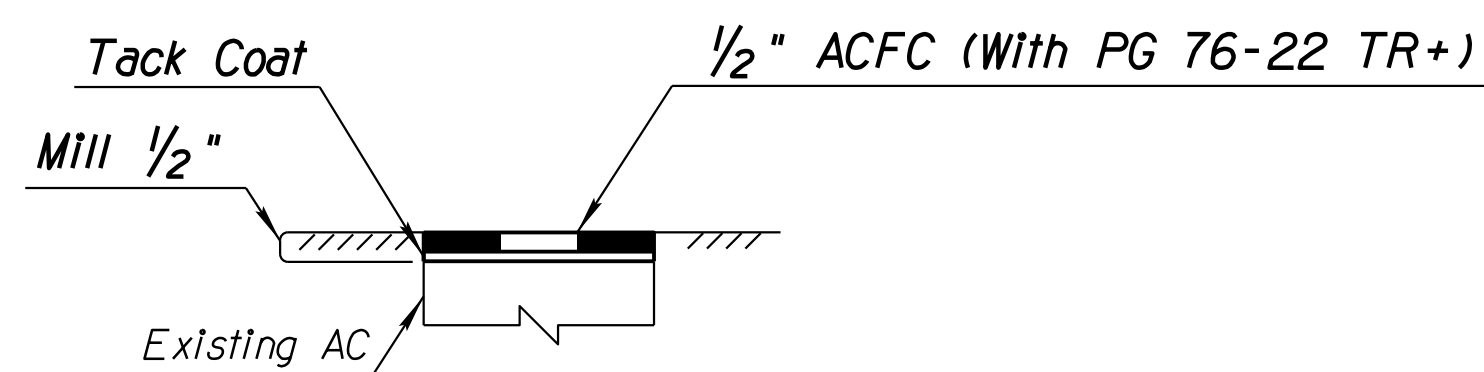
Total Thickness = 24"

**PAVEMENT STRUCTURAL SECTION NO. 4**  
I-10 Mainline EB/WB Interim and Widening  
(Inside & Outside Shoulders), Sunset Ramp C,  
I-10/Sunset Gore



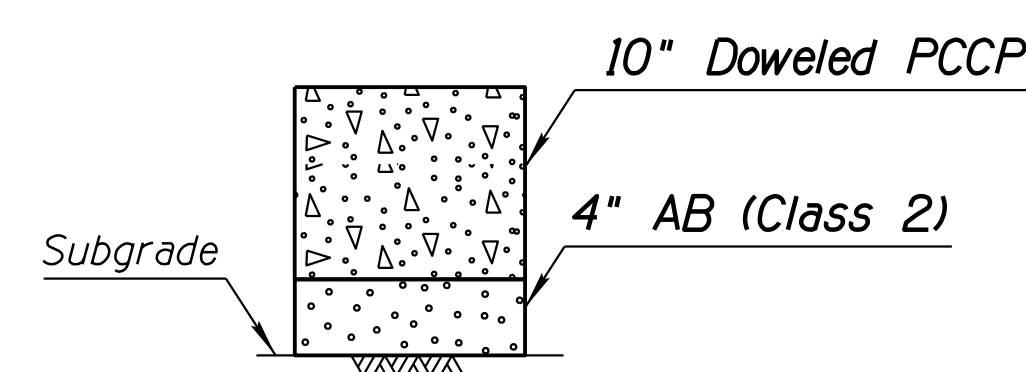
Total Thickness = 16"

**PAVEMENT STRUCTURAL SECTION NO. 5**  
I-10 Mainline Gores



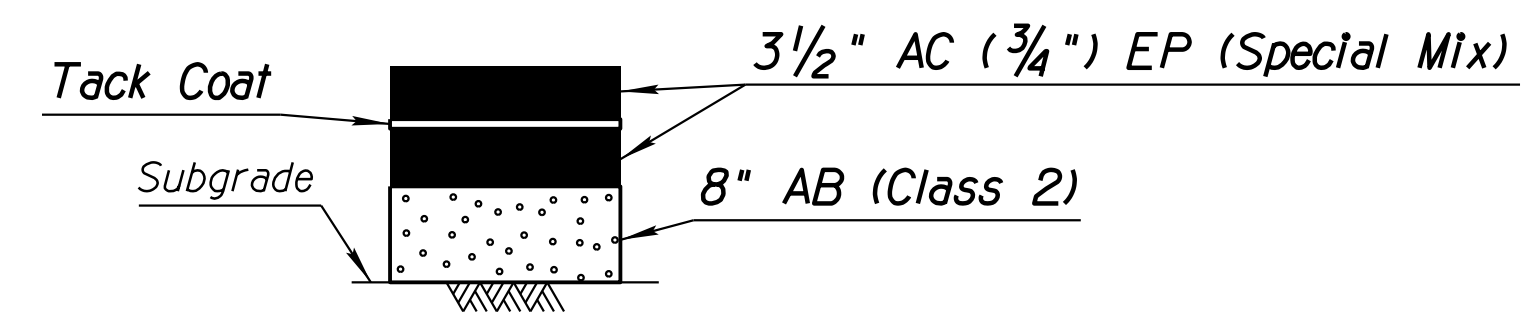
Total Thickness = 1/2"

**PAVEMENT STRUCTURAL SECTION NO. 6**  
Existing Mainline  
(Travel Lanes)



Total Thickness = 14"

**PAVEMENT STRUCTURAL SECTION NO. 7**  
Ruthrauff Road at TI



Total Thickness = 15"

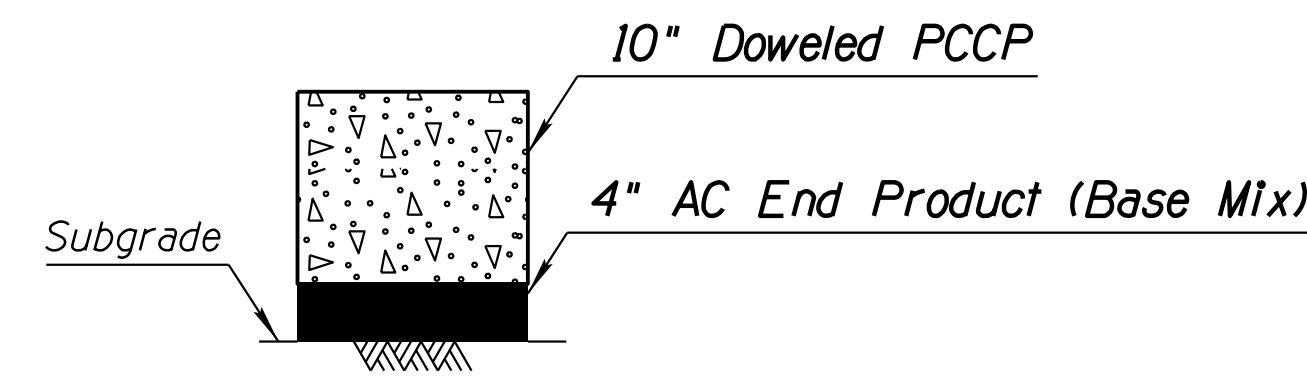
**PAVEMENT STRUCTURAL SECTION NO. 8**  
Ruthrauff Road

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>PAVEMENT STRUCTURE SECTIONS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-2.01 OF

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

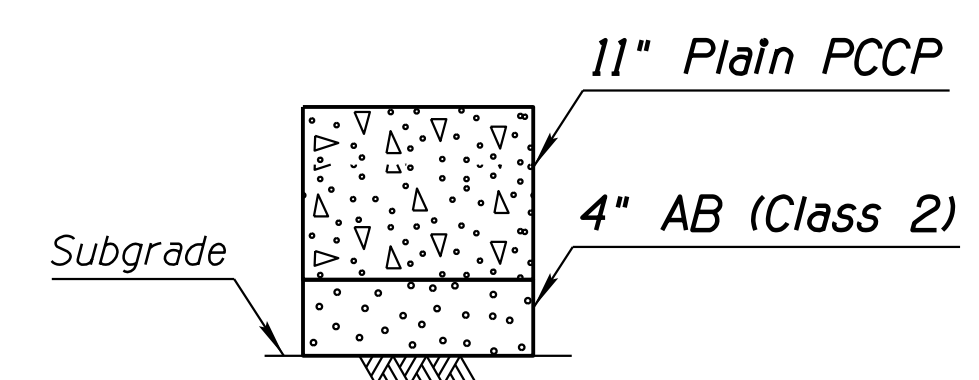
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	9	849	

010 PM 252



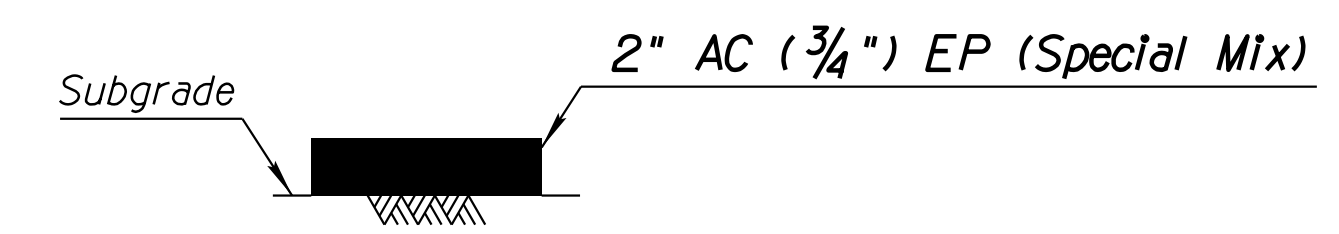
Total Thickness = 14"

PAVEMENT STRUCTURAL SECTION NO. 9  
Ramps



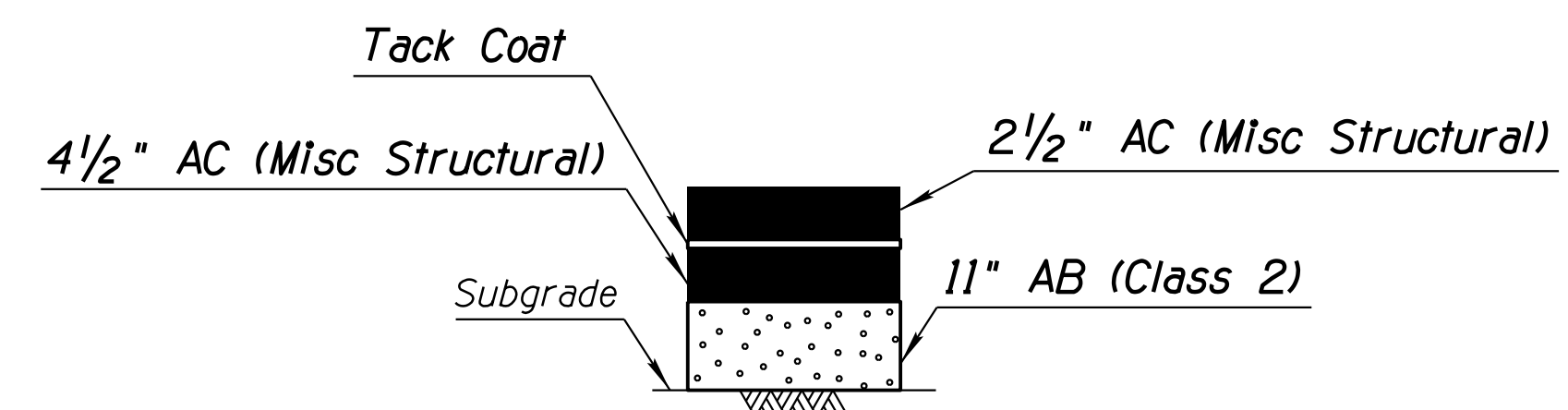
Total Thickness = 15"

PAVEMENT STRUCTURAL SECTION NO. 10  
Frontage Roads and Frontage Road Gores



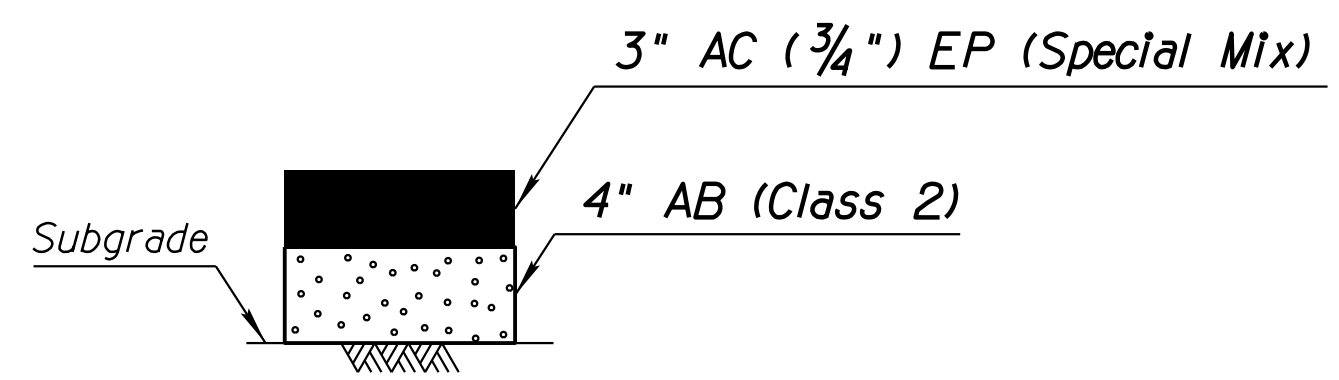
Total Thickness = 2"

PAVEMENT STRUCTURAL SECTION NO. 11  
Widening for TCB Placement\*\*



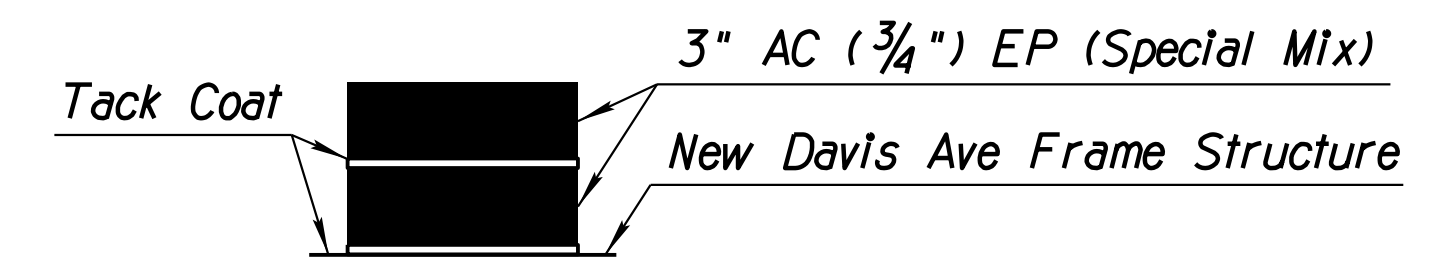
Total Thickness = 18"

PAVEMENT STRUCTURAL SECTION NO. 12  
Temporary Detours



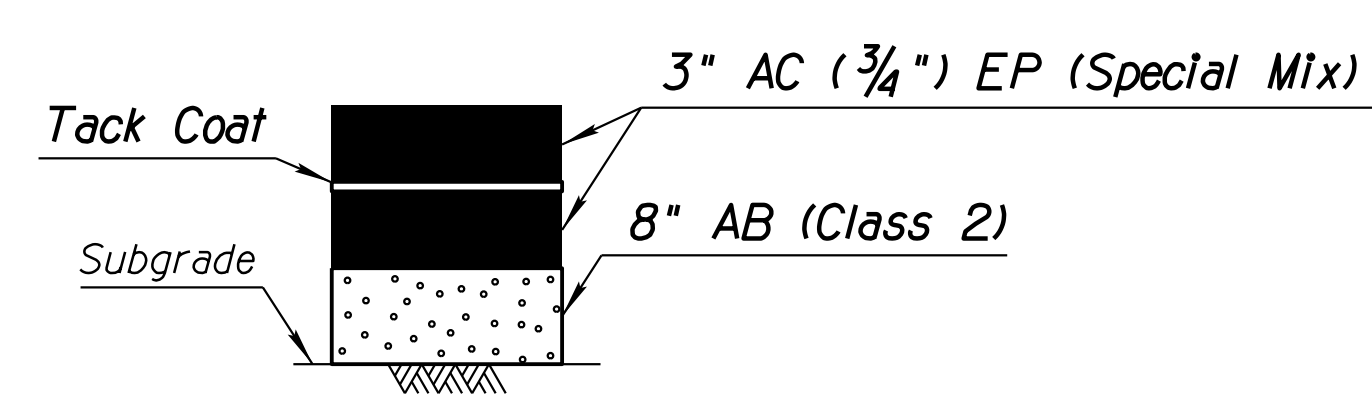
Total Thickness = 7"

PAVEMENT STRUCTURAL SECTION NO. 13  
Driveways



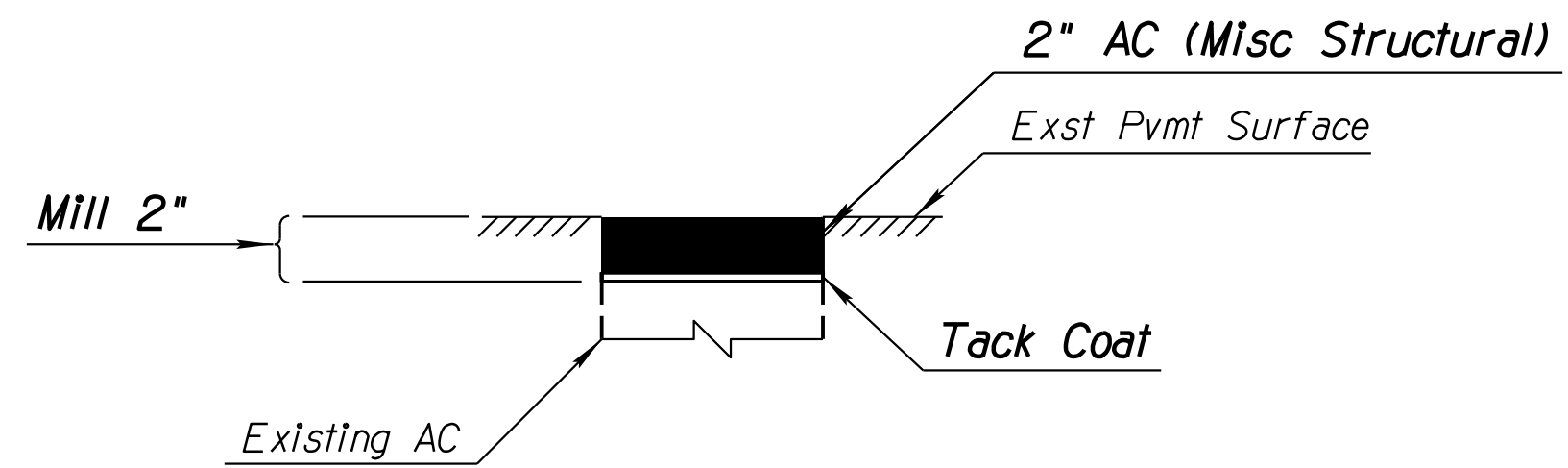
Total Thickness = 6"

PAVEMENT STRUCTURAL SECTION NO. 14  
Davis Ave Frame Structure



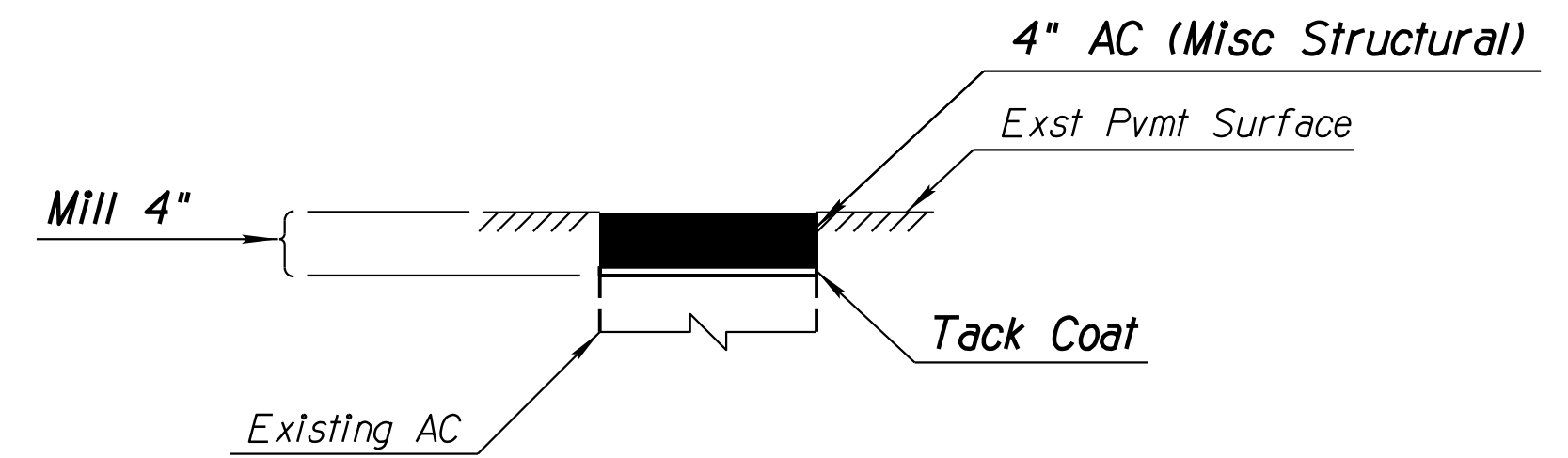
Total Thickness = 14"

PAVEMENT STRUCTURAL SECTION NO. 15  
Local Collectors, Local Streets



Total Thickness = 2"

PAVEMENT STRUCTURAL SECTION NO. 16  
Pavement Preservation



Total Thickness = 4"

PAVEMENT STRUCTURAL SECTION NO. 17  
Temporary Pavement for Construction \*

\* See Traffic Sheets for locations  
\*\* This is paid under items No. 910009 and 910012.

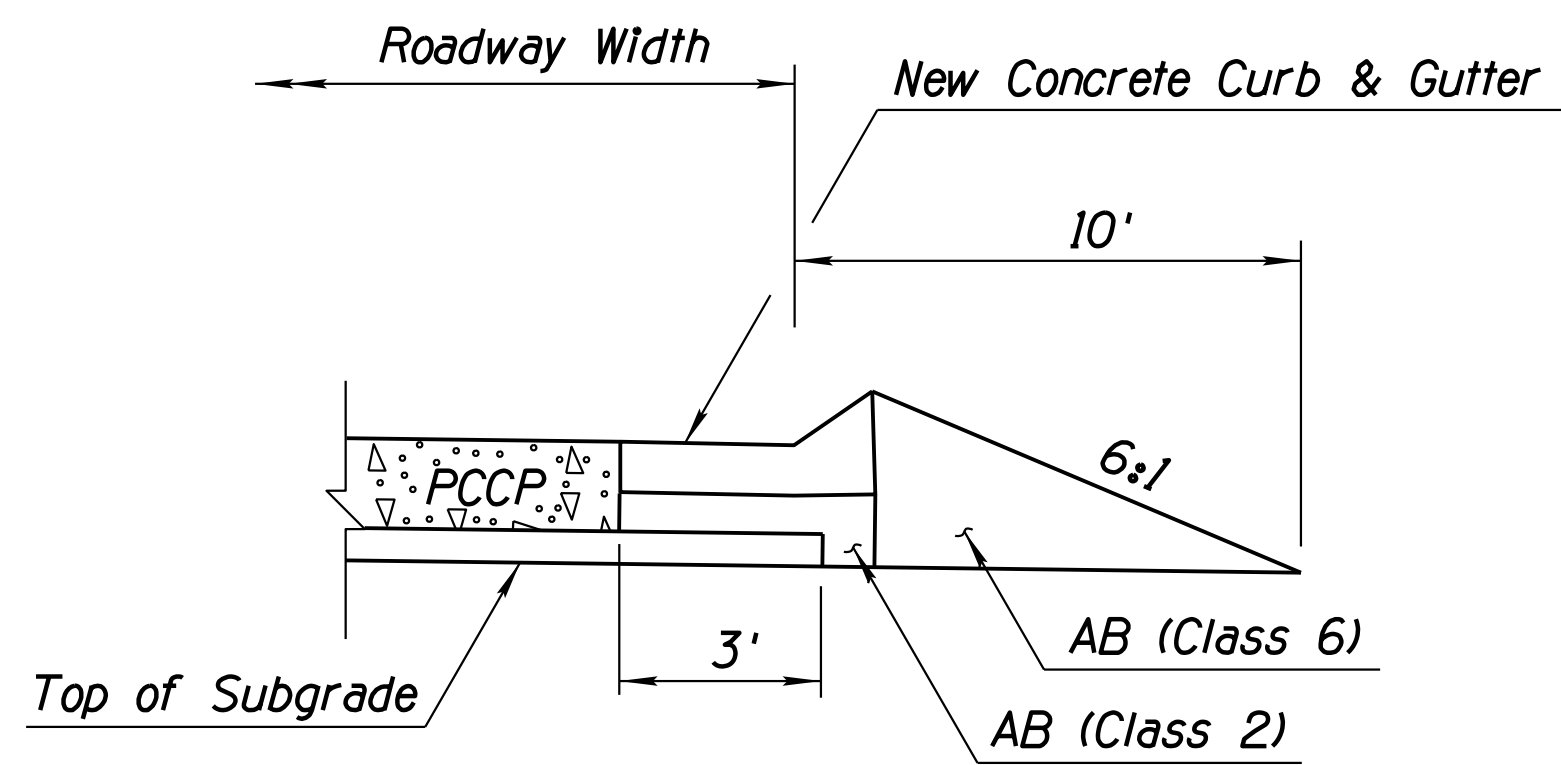
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		PAVEMENT STRUCTURE SECTIONS	
1-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. 0-2.02	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

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



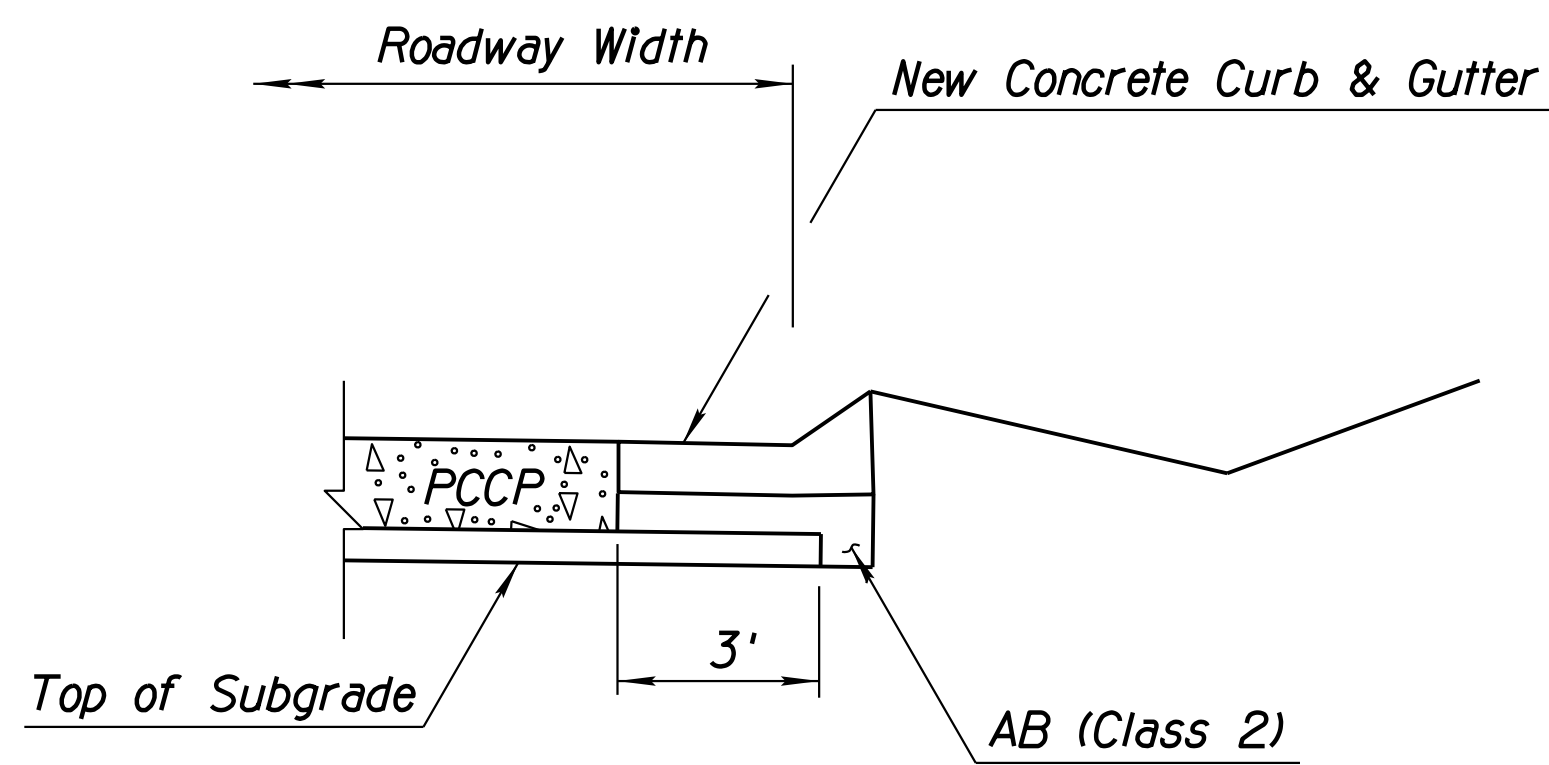
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	10	849	

010 PM 252



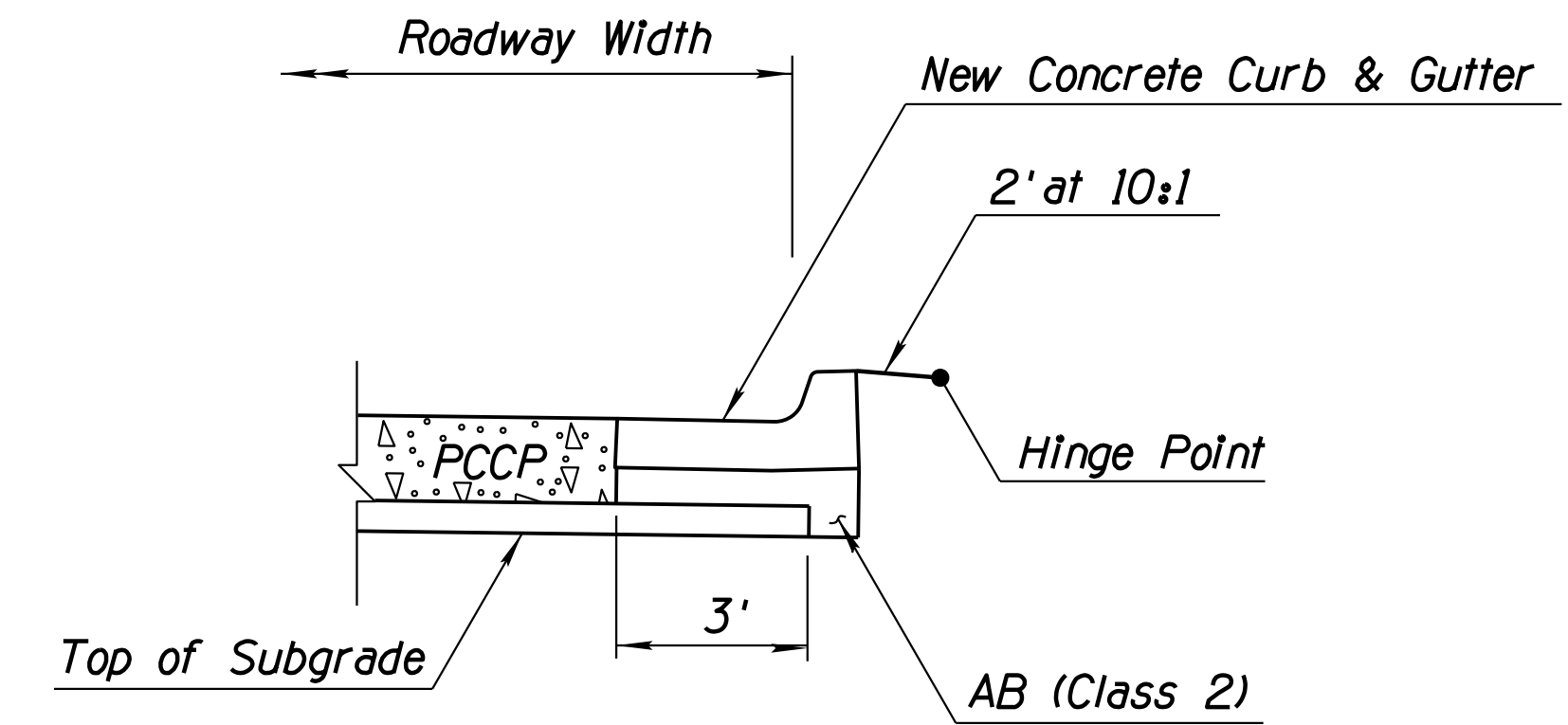
VIEW A

PCCP Treatment with Curb & Gutter  
(Mainline, Fill Condition)



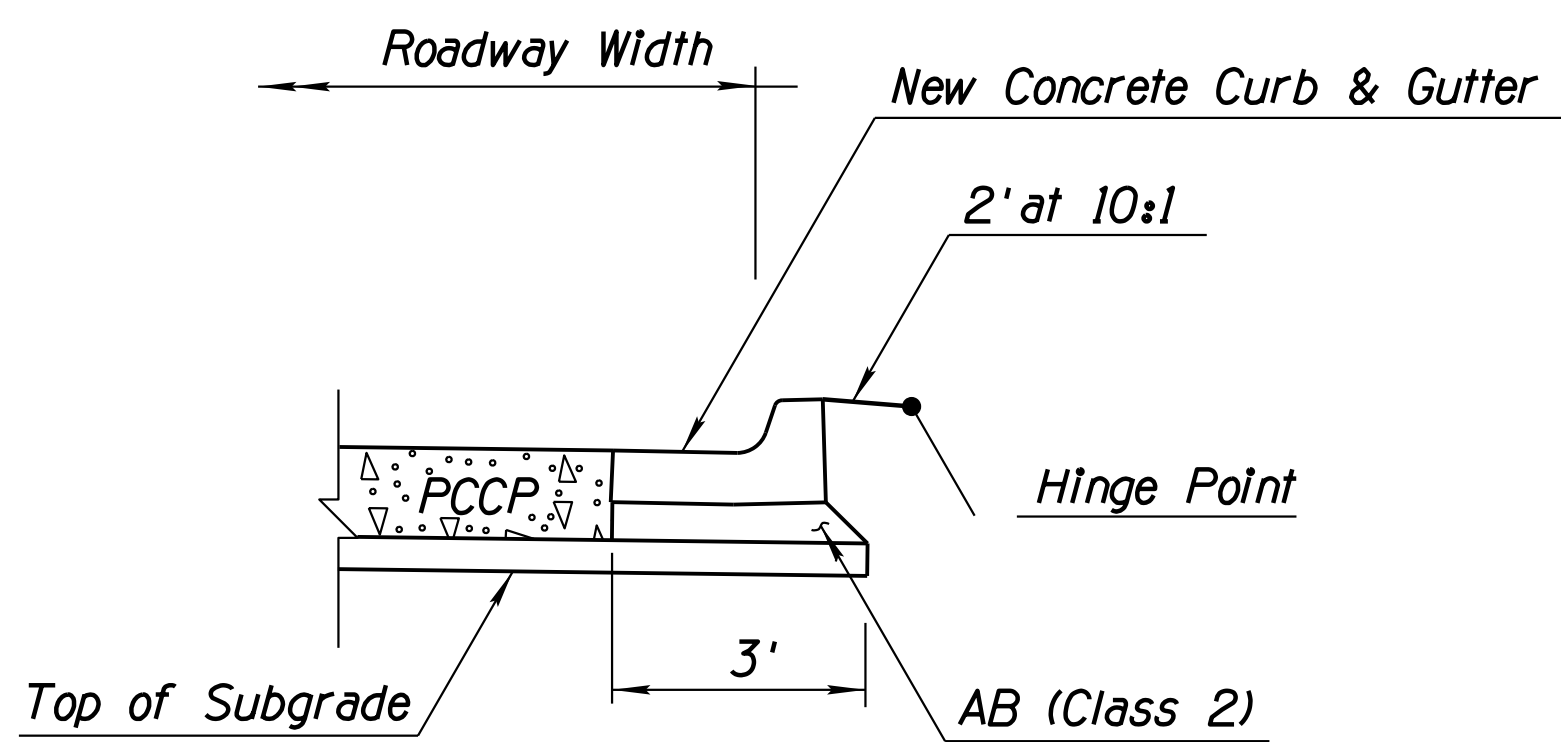
VIEW B

PCCP Treatment with Curb & Gutter  
(Mainline, Cut Condition)



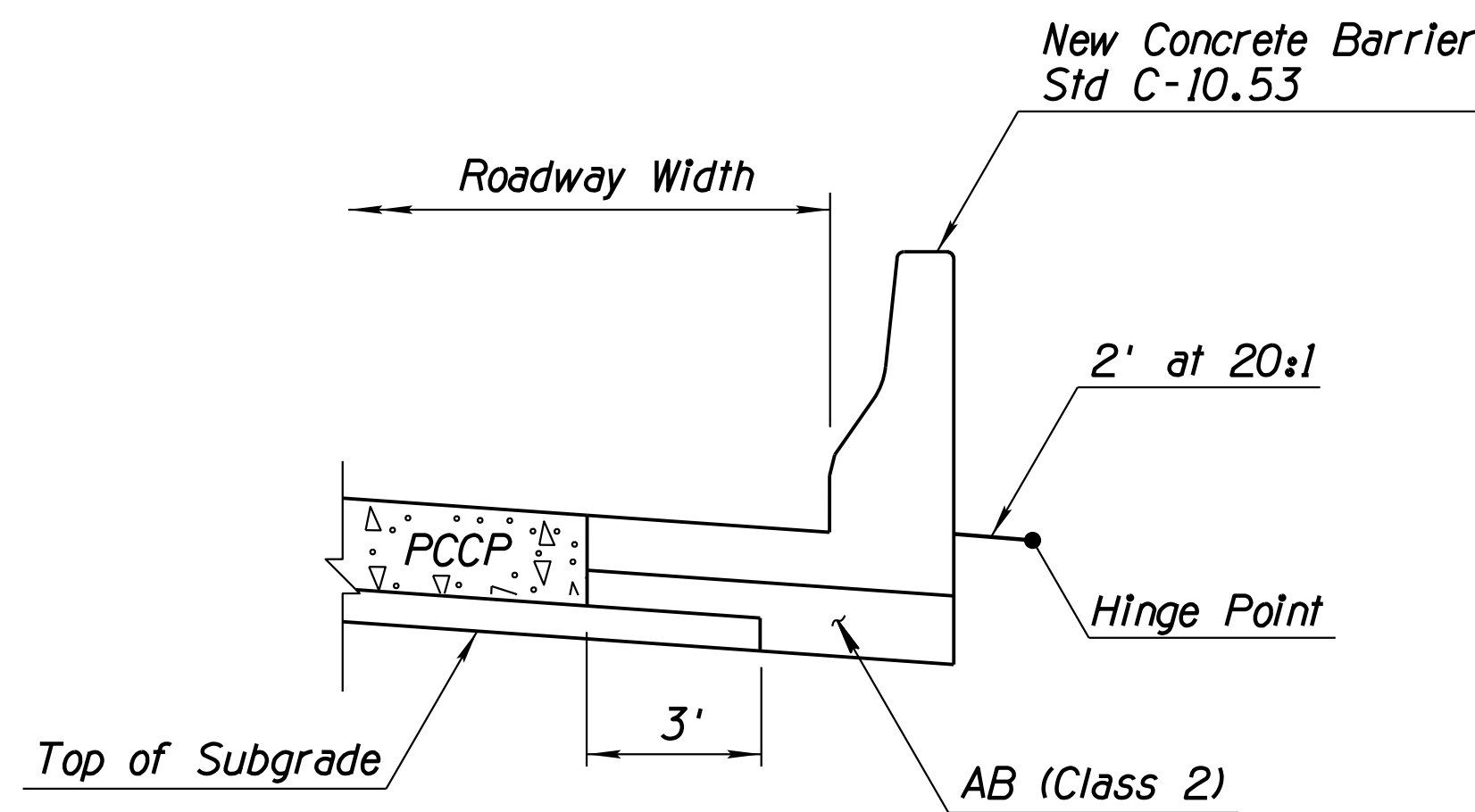
VIEW C

PCCP Shoulder Treatment with Curb & Gutter



VIEW D

PCCP Shoulder Treatment with Curb & Gutter



VIEW E

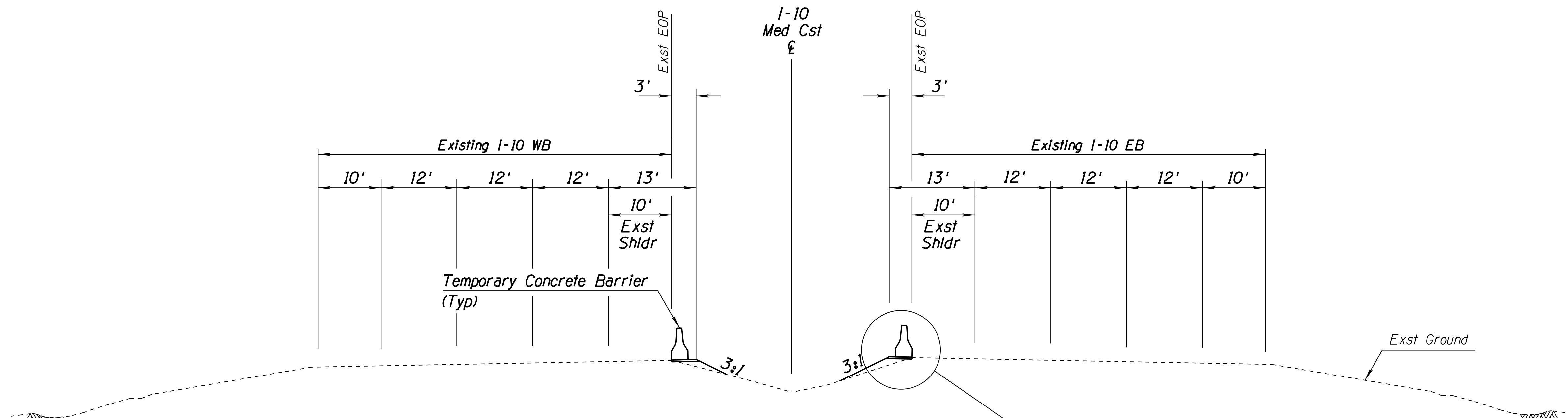
PCCP Shoulder Treatment With Half Barrier

NO. DESCRIPTION OF REVISIONS- Added Safety Rail note  
 REVISIONS- FINISHED PLANS-  
 SURVEY NO. LOCATION-  
 MADE BY- IO DATE- 08/31/17  
 REVISIONS- FINISHED PLANS-  
 SURVEY NO. LOCATION-  
 DATE- DATE-

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTION          EDGE TREATMENT DETAILS</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-3.01 OF

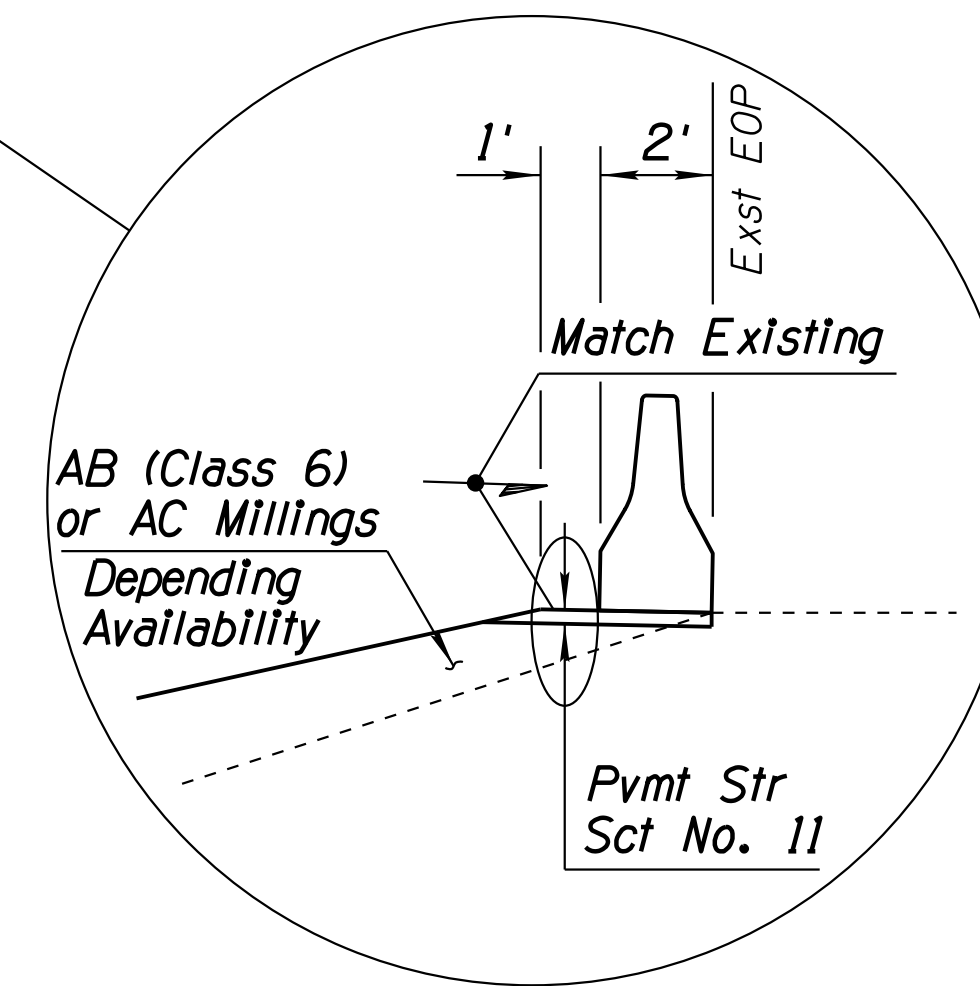
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	11	849	

010 PM 252



**TYPICAL SECTION  
WIDENING FOR TCB PLACEMENT**

Sta 5154+50.00 Rt to Sta 5186+00.00 Rt  
Sta 5155+80.00 Lt to Sta 5186+00.00 Lt



**NOTES:**

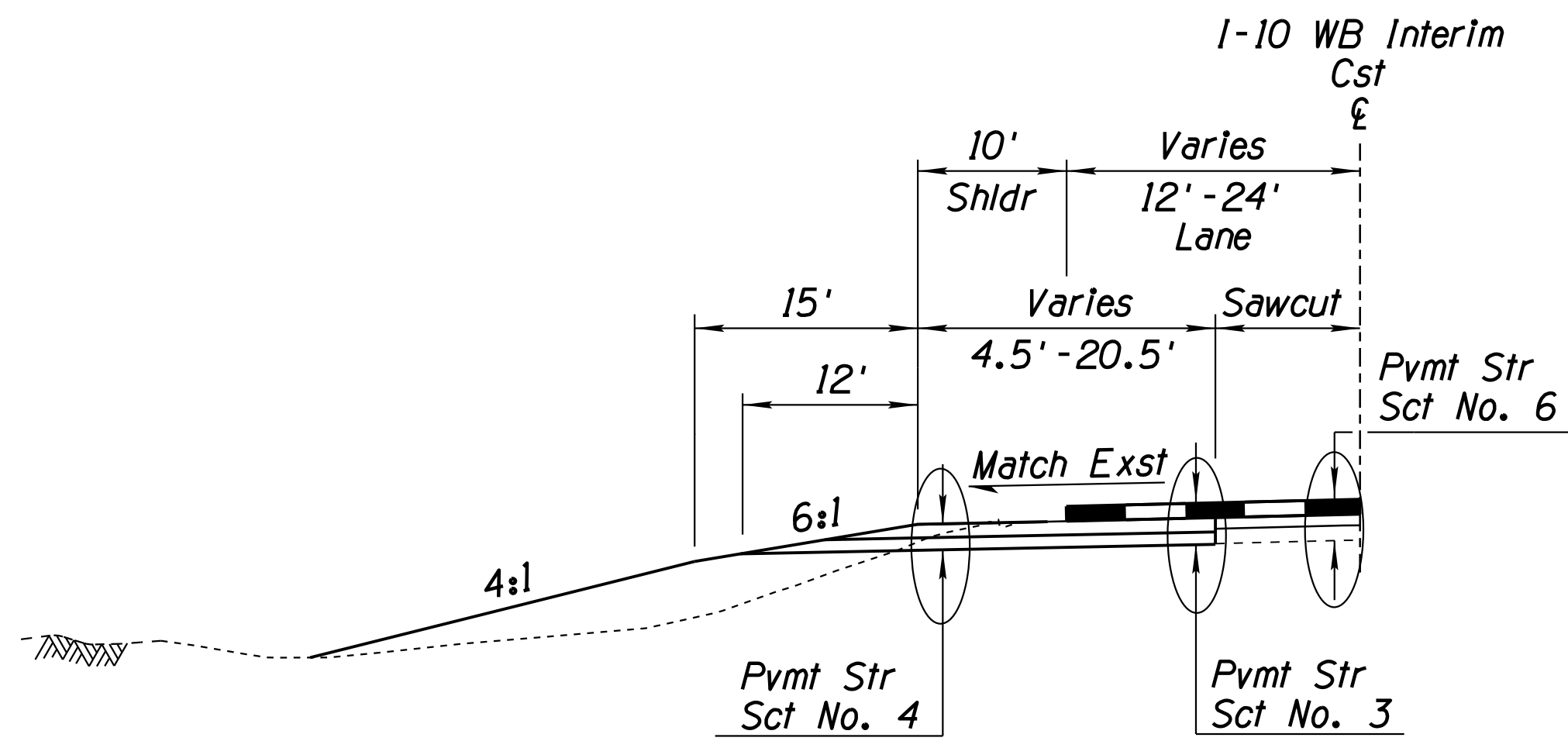
1. For additional information on the placement of the temporary concrete barrier within these limits, See Details G, W and Traffic Signing and Marking Standard Dwg C-3.
2. The placement of TCB is paid for under Item No. 9100009 - Concrete Barrier (Temporary, Detail G) & Item No. 9100012 Concrete Barrier (Temporary, Relocate). See Special Provisions for additional information.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-4.01 OF

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

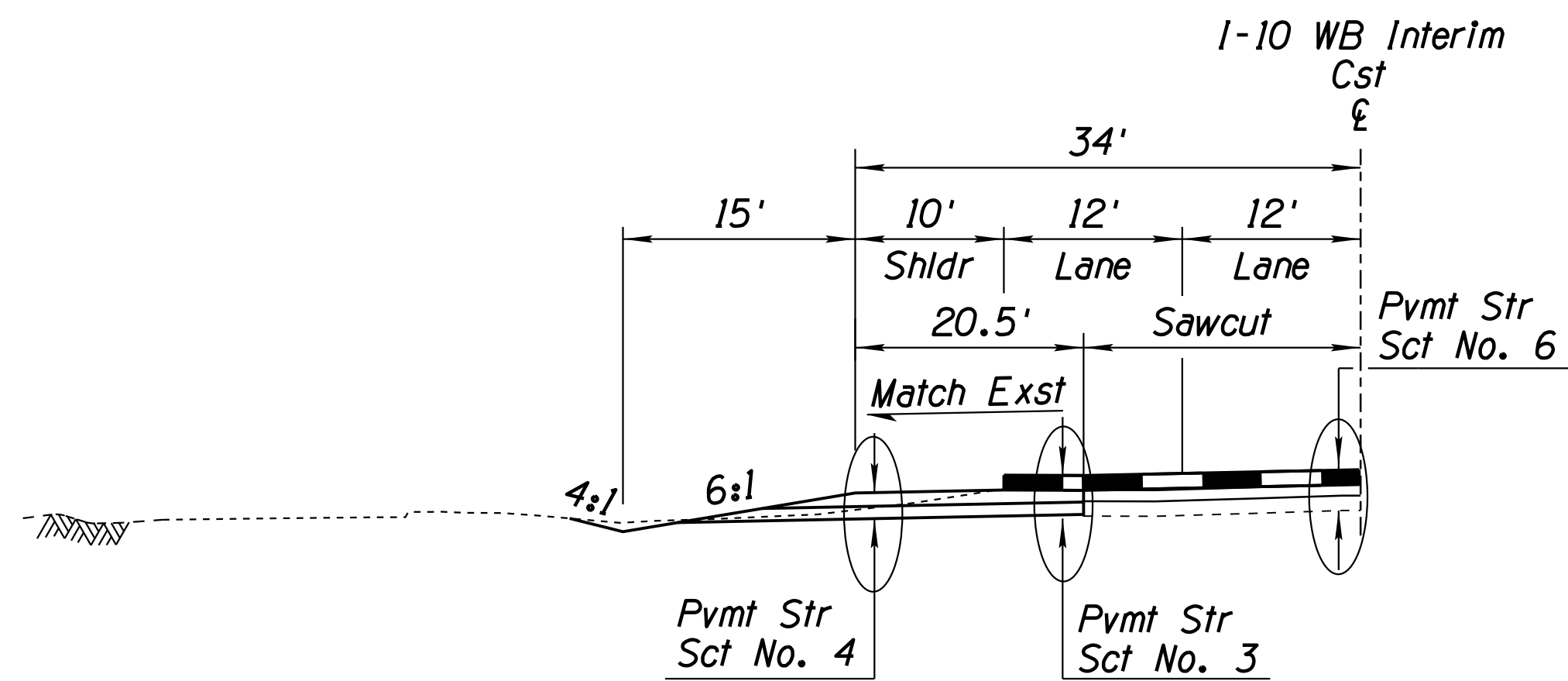
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	12	849	

010 PM 252



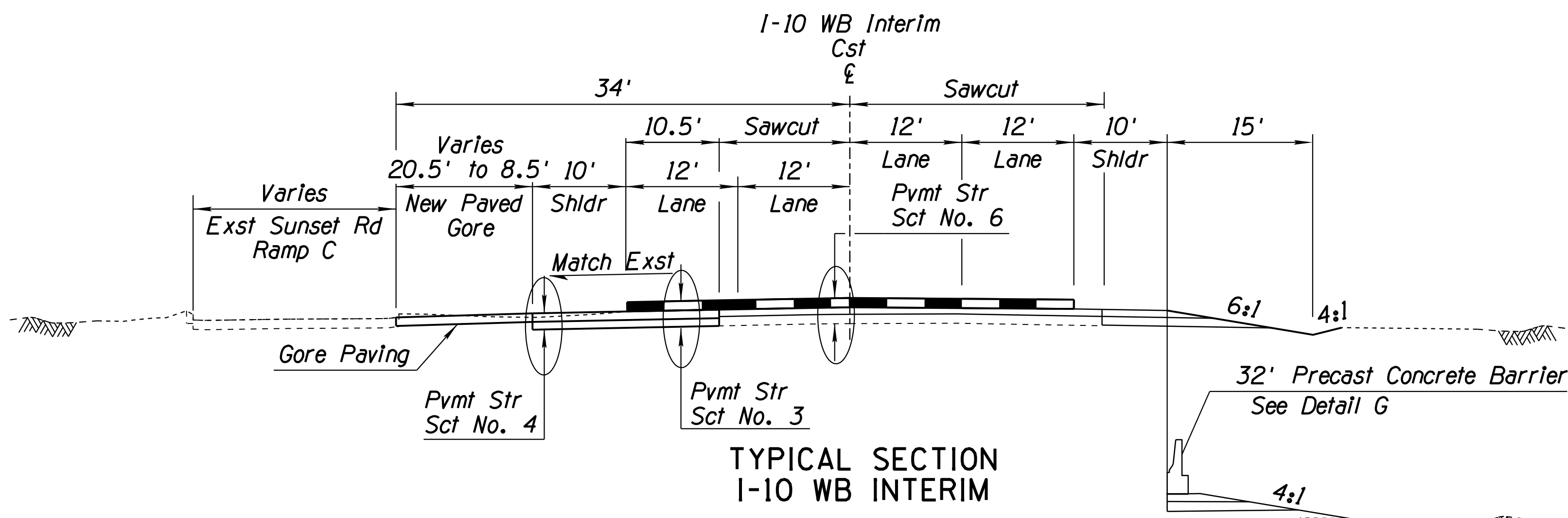
**TYPICAL SECTION  
I-10 WB INTERIM**

Sta 100+00.00 to Sta 108+40.00



**TYPICAL SECTION  
I-10 WB INTERIM**

Sta 108+40.00 to Sta 112+13.08



**TYPICAL SECTION  
I-10 WB INTERIM**

Sta 112+13.08 to Sta 113+89.65

Sta 113+79.20 to Sta 113+89.65

**NOTES:**

- As-built plans indicate presence of 6" cement-treated base along existing I-10 through project limits.
- For Sawcut Control Table, See Table below.
- Rumble strip mitigation shall be completed prior to shifting mainline traffic onto or across existing shoulder rumble strips. This work is paid under Item 2020087 - Remove Bituminous Pavement (Milling) (4"). See Traffic Sheets for locations.
- To eliminate Stripe Obliteration, a 1/2" Mill and Overlay shall be completed for EB I-10 and WB I-10. Milling work will be paid for under Item 2020080. Remove bituminous pavement (milling) (1/2"). ACFC Overlay work will be paid under items 4070002, 4070021 and 4040290. For more information, See Traffic Sheets.

**SAWCUT CONTROL TABLE**

Centerline	Station	Side	Offset
I-10 WB Interim Cst E	100+00.00	LT	17.50'
I-10 WB Interim Cst E	108+00.00	LT	13.50'
I-10 WB Interim Cst E	118+00.00	LT	21.00'
I-10 WB Interim Cst E	120+00.00	LT	23.00'
I-10 WB Interim Cst E	122+00.00	LT	23.00'
I-10 WB Interim Cst E	123+92.85	LT	28.00'
I-10 WB Interim Cst E	113+79.20	RT	30.98'
I-10 WB Interim Cst E	116+07.00	RT	30.15'
I-10 WB Interim Cst E	123+93.05	RT	18.69'
I-10 EB Interim Cst E	195+00.00	RT	39.00'
I-10 EB Interim Cst E	200+00.00	RT	25.00'
I-10 EB Interim Cst E	203+41.00	RT	19.00'

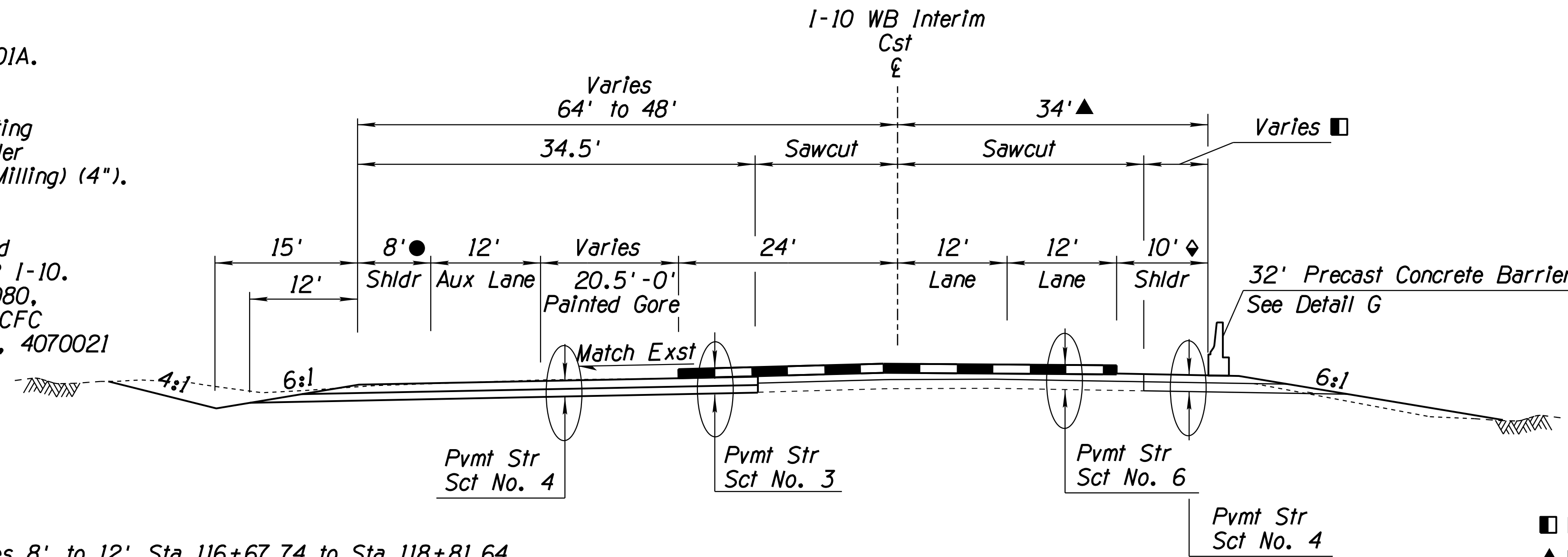
DESIGN	IC0	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-4.01A OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	13	849	

010 PM 252

**NOTES:**

- As-built plans indicate presence of 6" cement-treated base along existing I-10 through project limits.
- For Sawcut Control Table, See Dwg. No. C-4.01A.
- Rumble strip mitigation shall be completed prior to shifting mainline traffic onto or across existing shoulder rumble strips. This work is paid under Item 2020087 - Remove Bituminous Pavement (Milling) (4"). See Traffic Sheets for locations.
- To eliminate Stripe Obliteration, a 1/2" Mill and Overlay shall be completed for EB I-10 and WB I-10. Milling work will be paid for under Item 2020080, Remove bituminous pavement (milling) (1/2"). ACFC Overlay work will be paid under items 4070002, 4070021 and 4040290. For more information, See Traffic Sheets.

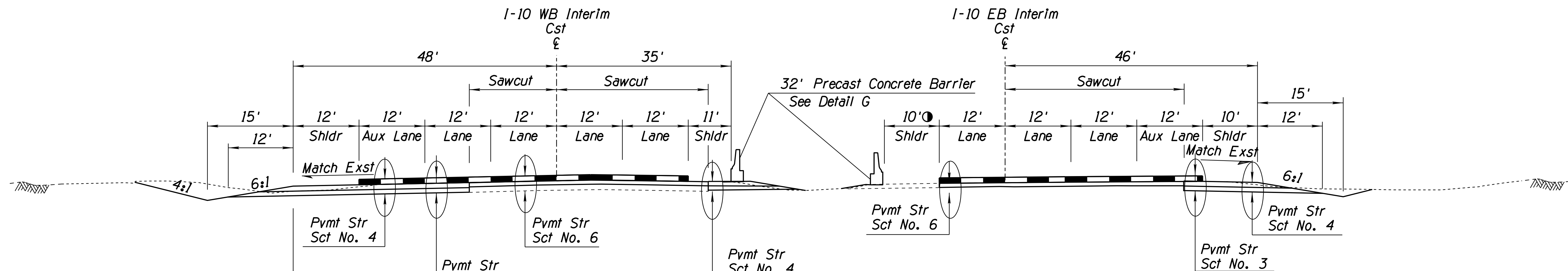


● Varies 8' to 12' Sta 116+67.74 to Sta 118+81.64

■ Varies 3.02' to 4.85' Sta 113+79.20 to Sta 116+07.00  
 ▲ Varies 34' to 35' Sta 113+79.20 to Sta 116+07.00  
 ◆ Varies 10' to 11' Sta 113+79.20 to Sta 116+07.00

**TYPICAL SECTION  
I-10 WB INTERIM**

Sta 113+89.65 to Sta 116+67.74



**TYPICAL SECTION  
I-10 WB INTERIM**

Sta 118+81.64 to Sta 123+97.70

**TYPICAL SECTION  
I-10 EB INTERIM**

Sta 195+00.00 to Sta 203+41.50

● Varies 10' to 12' Sta 200+61.41 to Sta 203+41.50

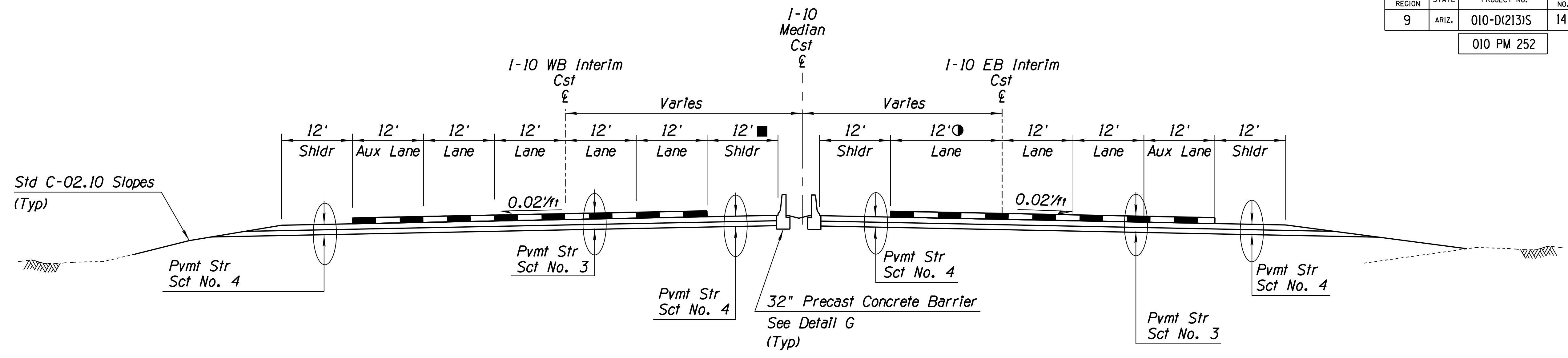
32' Precast Concrete Barrier  
See Detail G

Sta 120+80.00 to Sta 123+97.77

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b> 
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-4.02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	14	849	

010 PM 252



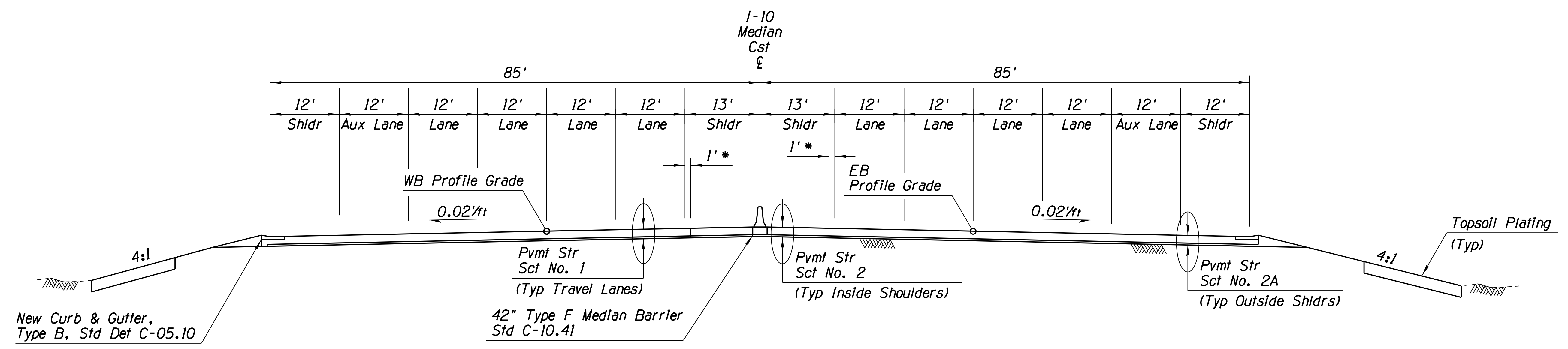
TYPICAL SECTION  
I-10 WB INTERIM

Sta 123+92.70 to Sta 128+91.78

TYPICAL SECTION  
I-10 EB INTERIM

Sta 203+41.50 to Sta 208+41.64

■ *Varies 11' to 12' Sta 123+92.70 to Sta 124+67.70*  
 ● *Varies 12' to 24' Sta 205+41.64 to Sta 208+41.64*



TYPICAL SECTION - I-10

Sta 5186+00.00 to Sta 5190+07.89 EB  
 Sta 5186+00.00 to Sta 5190+41.86 WB

NOTES:

- As-built plans indicate presence of 6" cement-treated base along existing I-10 through project limits.
- For Sawcut Control Table, See Dwg. No. C-4.01A.
- Rumble strip mitigation shall be completed prior to shifting mainline traffic onto or across existing shoulder rumble strips. This work is paid under Item 2020087 - Remove Bituminous Pavement (Milling) (4"). See Traffic Sheets for locations.
- To eliminate Stripe Obliteration, a 1/2" Mill and Overlay shall be completed for EB I-10 and WB I-10. Milling work will be paid for under Item 2020080, Remove bituminous pavement (milling) (1/2"). ACFC Overlay work will be paid under Items 4070002, 4070021 and 4040290. For more information, See Traffic Sheets.
- See Dwg No. G-3.01 for PCCP treatments at shoulders.

\* 1' dimension should be paved with Pavement Structural Section No. 1, Remainder of the Inside shoulder should be Pavement Structural Section No. 2.

New Curb & Gutter, Type B, Std Det C-05.10

42" Type F Median Barrier Std C-10.41

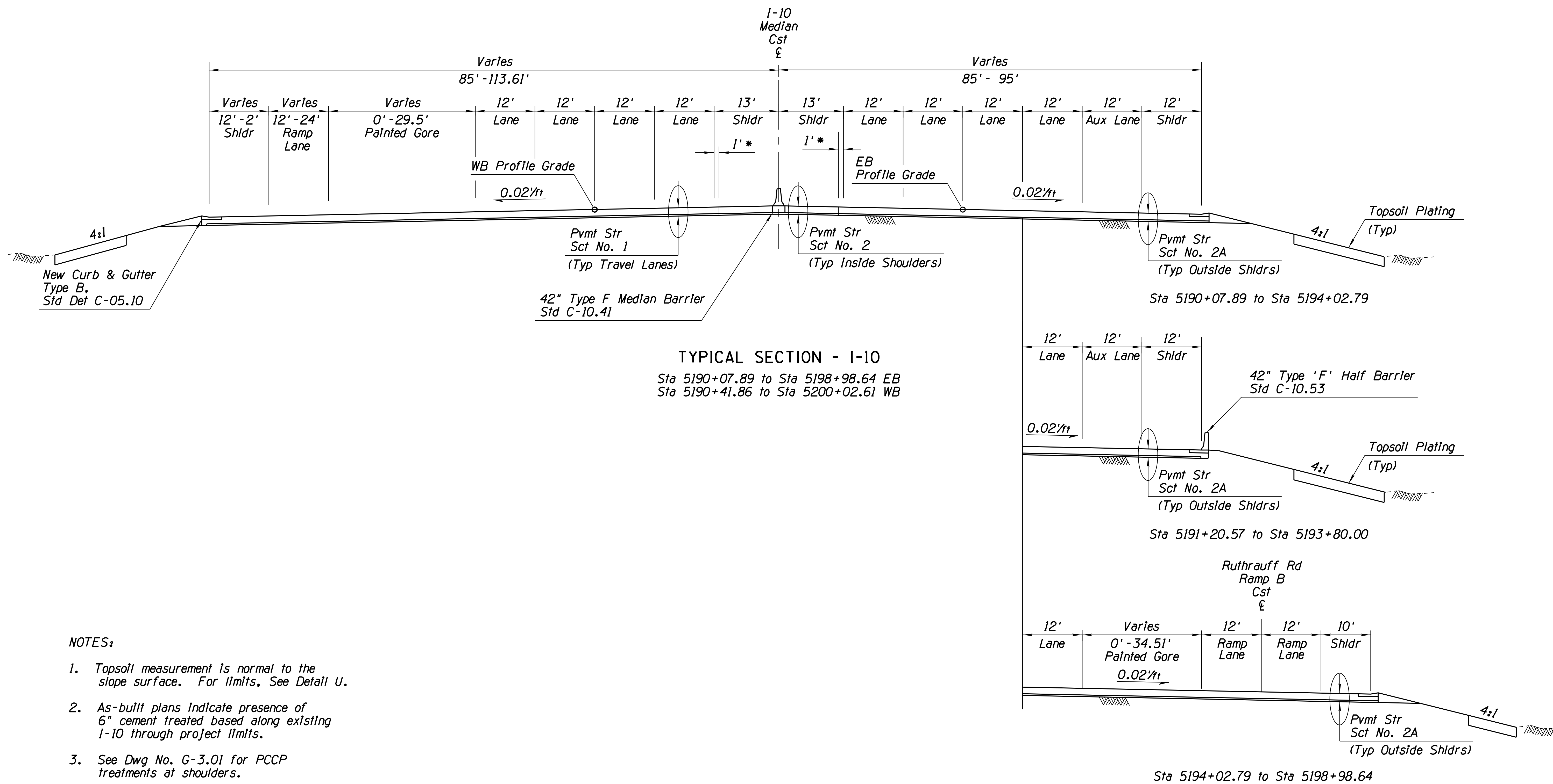
Topsoil Plating (Typ)

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
				TYPICAL SECTIONS
ROUTE	I-10			RUTHRAUFF ROAD TI
LOCATION				
TRACS NO.	H 8480 OIC		010-D(213)S	Expires 9/30/2019 DWG NO. G-4.02A



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	15	849	

010 PM 252



**NOTES:**

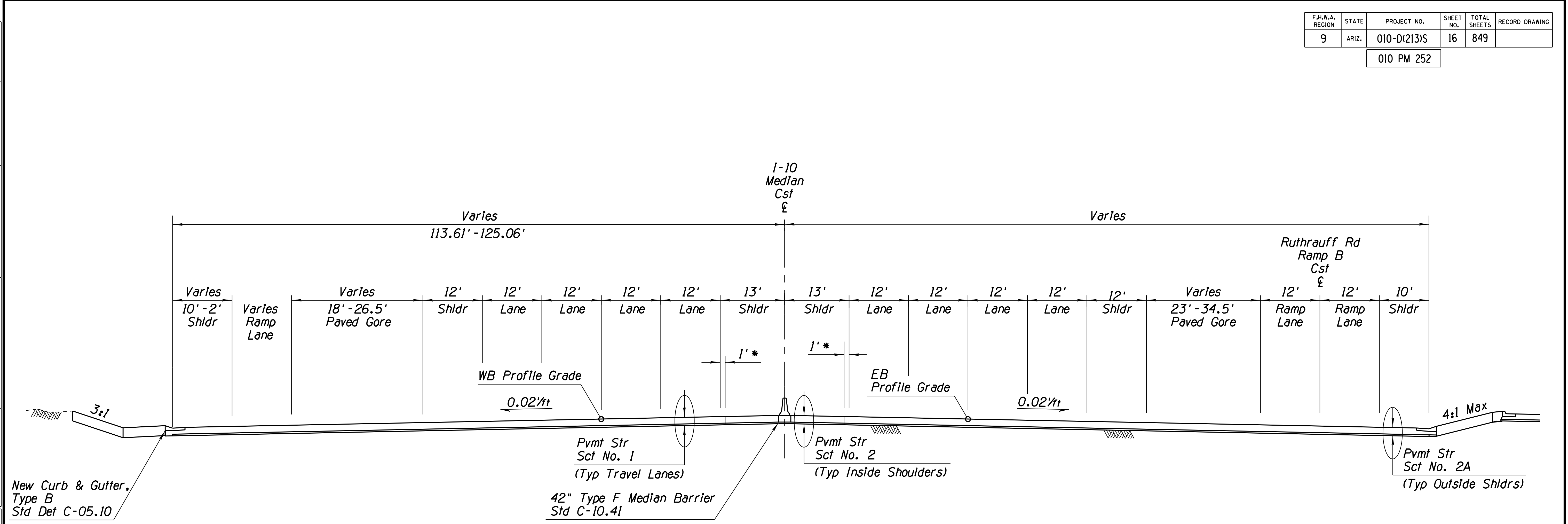
1. Topsoil measurement is normal to the slope surface. For limits, See Detail U.
2. As-built plans indicate presence of 6" cement treated based along existing I-10 through project limits.
3. See Dwg No. G-3.01 for PCCP treatments at shoulders.

\* 1' dimension should be paved with Pavement Structural Section No. 1, Remainder of the inside shoulder should be Pavement Structural Section No. 2.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-4.03 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	16	849	

010 PM 252



**TYPICAL SECTION - I-10**  
 Sta 5198+98.64 to Sta 5200+34.17 EB  
 Sta 5200+02.61 to Sta 5201+49.85 WB

**NOTES:**

1. Topsoil measurement is normal to the slope surface. For limits, See Detail U.
2. As-built plans indicate presence of 6" cement treated based along existing I-10 through project limits.
3. See Dwg No. G-3.01 for PCCP treatments at shoulders.

\* 1' dimension should be paved with Pavement Structural Section No. 1, Remainder of the Inside shoulder should be Pavement Structural Section No. 2.

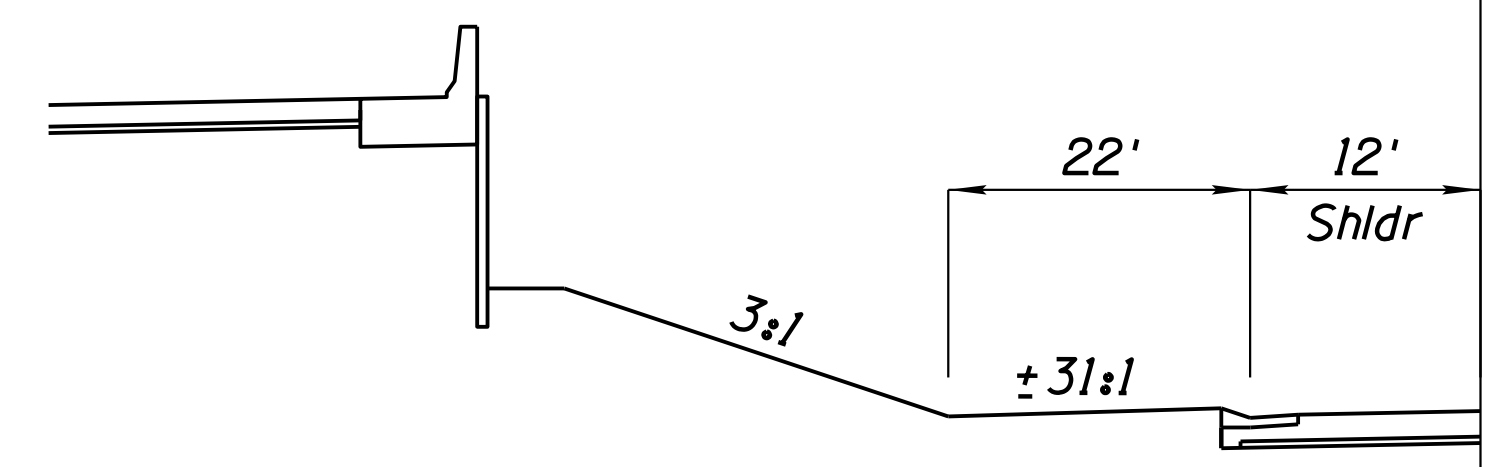
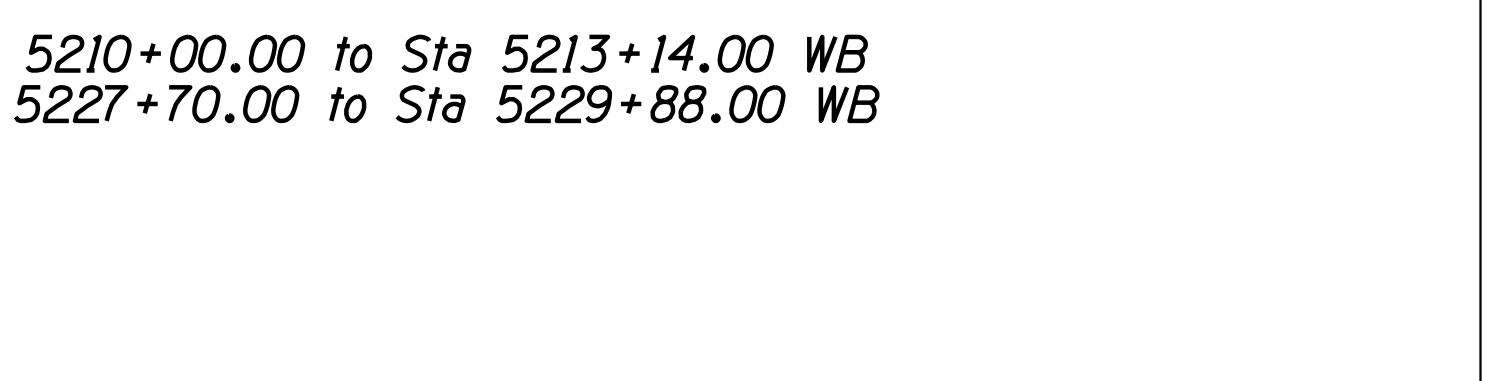
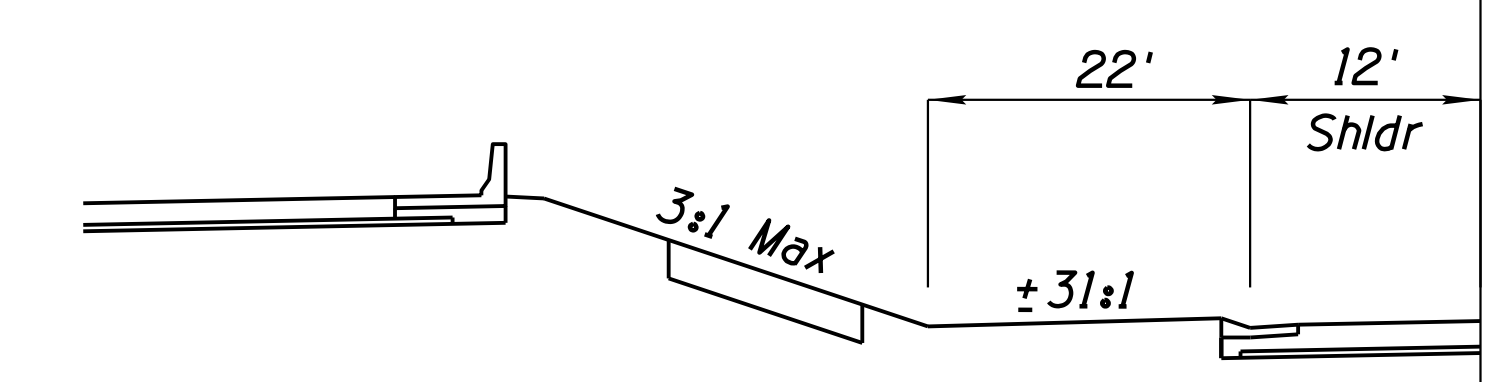
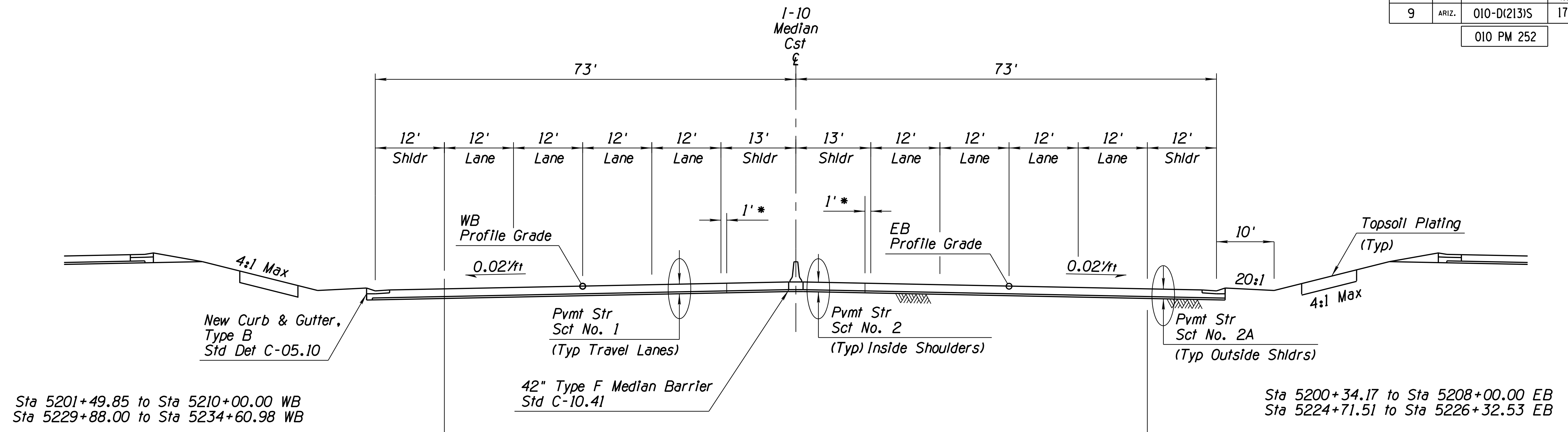
SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		TYPICAL SECTIONS
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S	
				Expires 9/30/2019 DWG NO. G-4.04



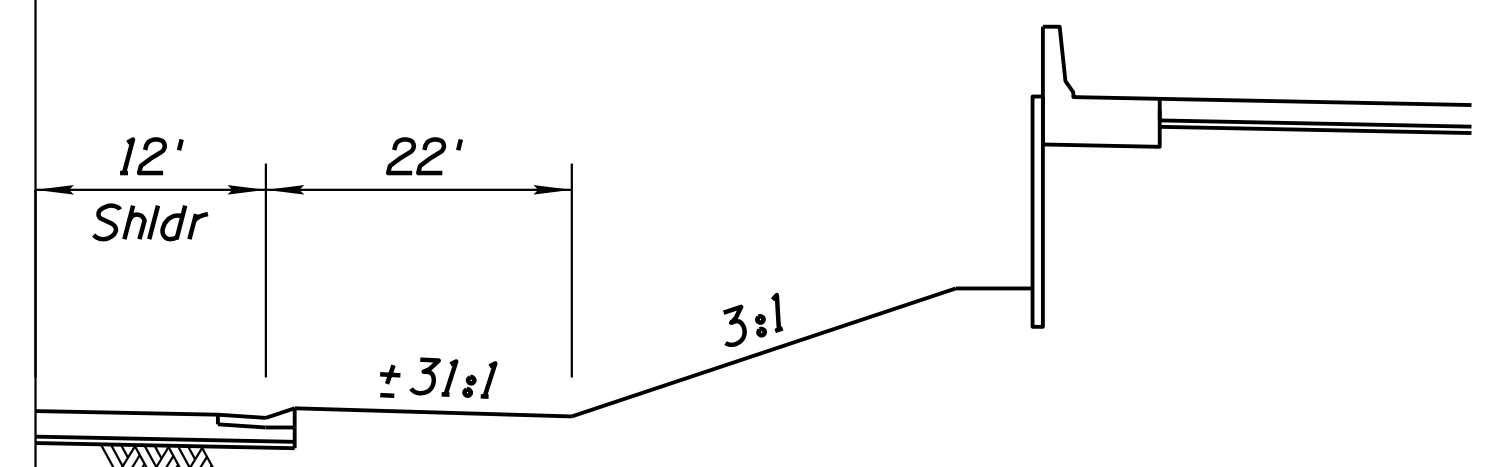
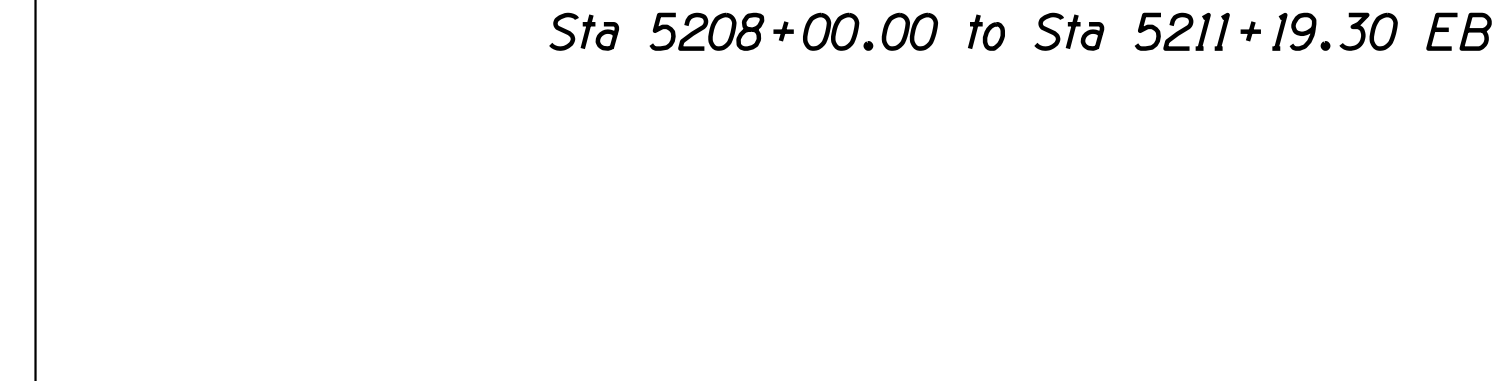
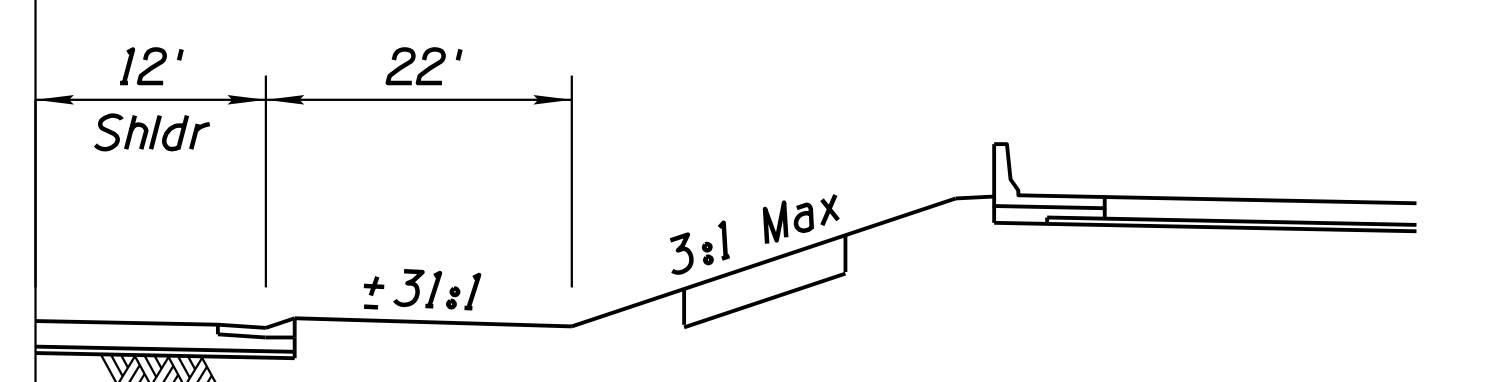
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	17	849	

010 PM 252



**TYPICAL SECTION - 1-10**  
 Sta 5200+34.17 to Sta 5226+32.53 EB  
 Sta 5201+49.85 to Sta 5234+60.98 WB

- NOTES:**
1. Topsoil measurement is normal to the slope surface. For limits, See Detail U.
  2. As-built plans indicate presence of 6" cement treated base along existing 1-10 through project limits.
  3. See Dwg No. G-3.01 for PCCP treatments at shoulders.



Sta 5211+19.30 to Sta 5213+20.67 EB  
 Sta 5216+45.50 to Sta 5224+71.51 EB

\* 1' dimension should be paved with Pavement Structural Section No. 1, Remainder of the Inside shoulder should be Pavement Structural Section No. 2.

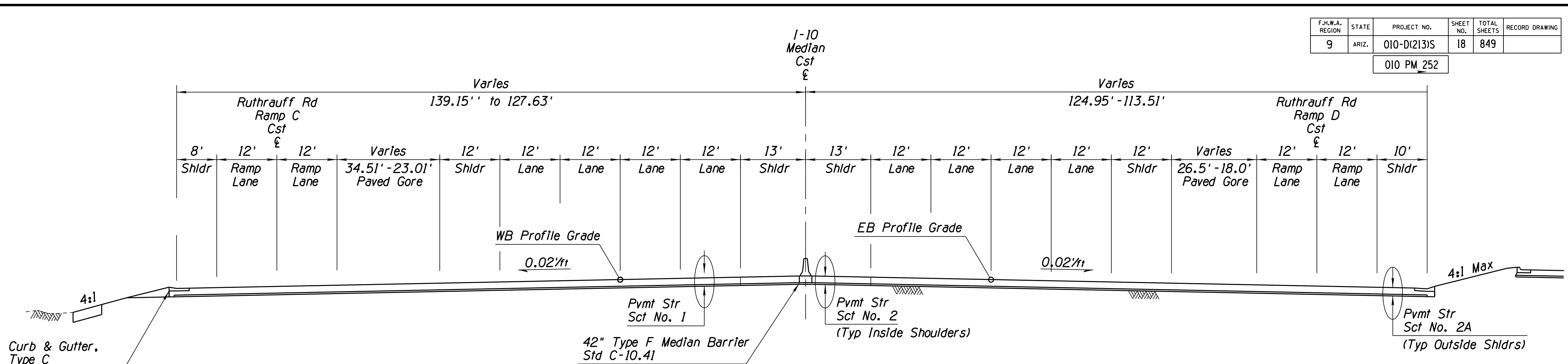
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
ROUTE		LOCATION		TYPICAL SECTIONS
1-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-4.05





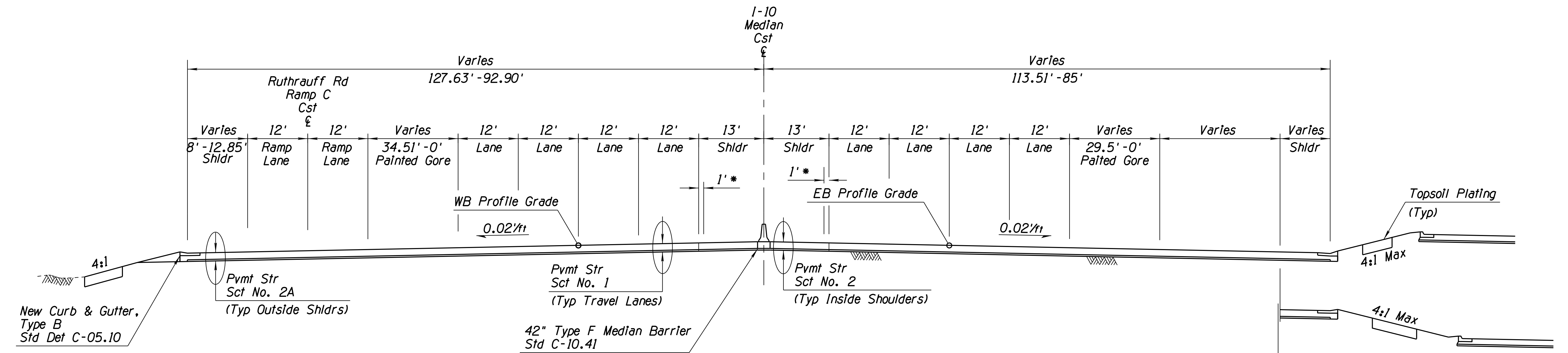
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	18	849	

010 PM 252



**TYPICAL SECTION - I-10**

Sta 5226+32.53 to Sta 5227+85.15 EB  
Sta 5234+60.98 to Sta 5235+84.88 WB



**TYPICAL SECTION - I-10**

Sta 5227+85.15 to Sta 5237+07.29 EB  
Sta 5235+84.88 to Sta 5240+40.12 WB

**NOTES:**

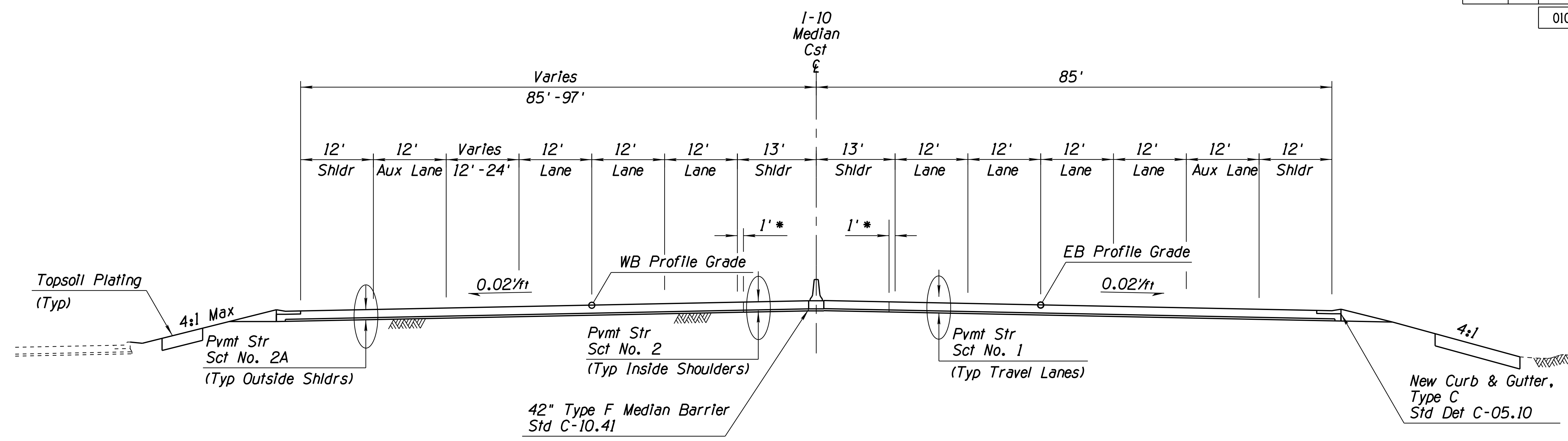
1. Topsoil measurement is normal to the slope surface. For limits, See Detail U.
2. As-built plans indicate presence of 6" cement treated based along existing I-10 through project limits.
3. See Dwg No. G-3.01 for PCCP treatments at shoulders.

\* 1' dimension should be paved with Pavement Structural Section No. 1. Remainder of the inside shoulder should be Pavement Structural Section No. 2.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	19	849	

010 PM 252



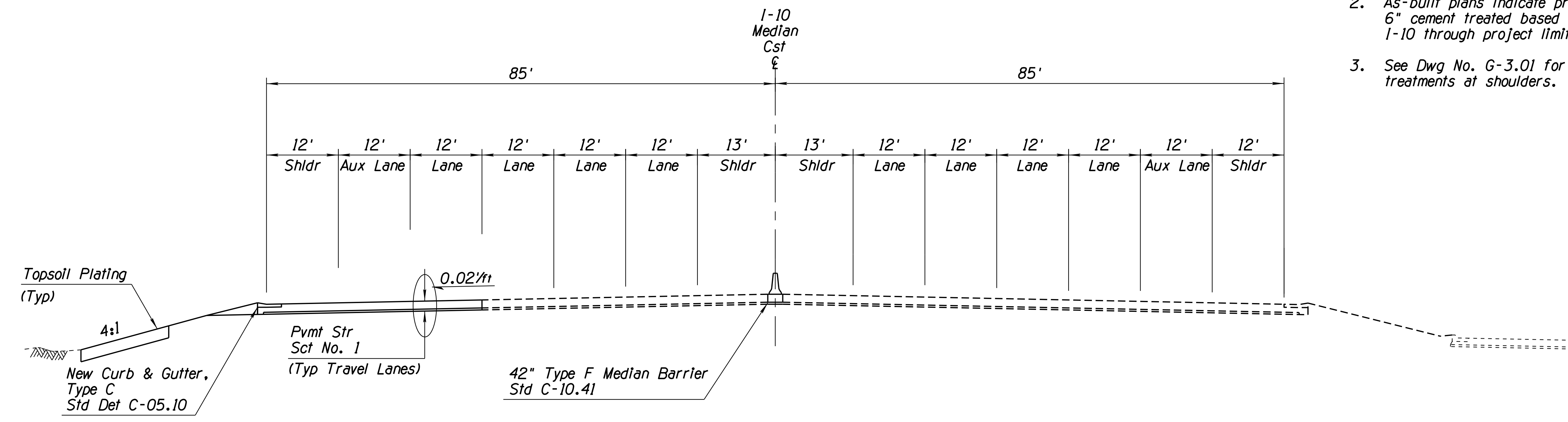
**TYPICAL SECTION - I-10**

Sta 5237+07.29 to Sta 5241+98.10 EB  
Sta 5240+42.85 to Sta 5241+98.10 WB

\* 1' dimension should be paved with Pavement Structural Section No. 1, Remainder of the Inside shoulder should be Pavement Structural Section No. 2.

**NOTES:**

1. Topsoil measurement is normal to the slope surface. For limits, See Detail U.
2. As-built plans indicate presence of 6" cement treated based along existing I-10 through project limits.
3. See Dwg No. G-3.01 for PCCP treatments at shoulders.



**TYPICAL SECTION - I-10**

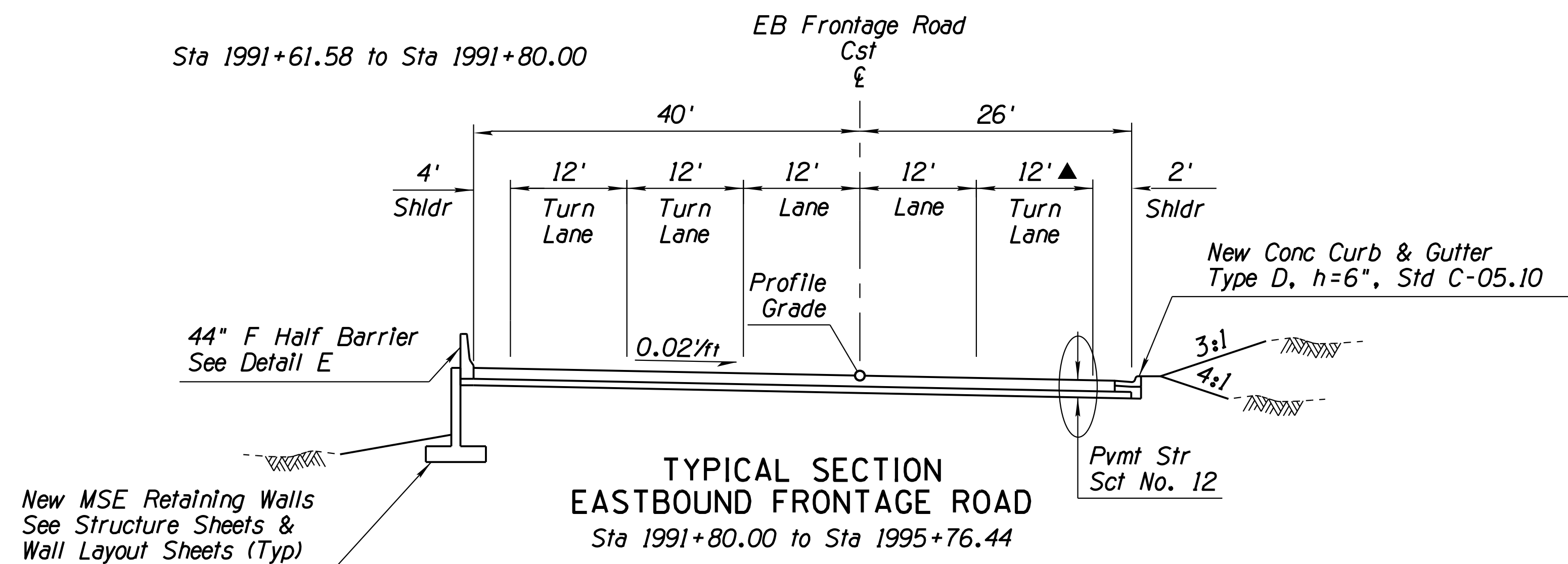
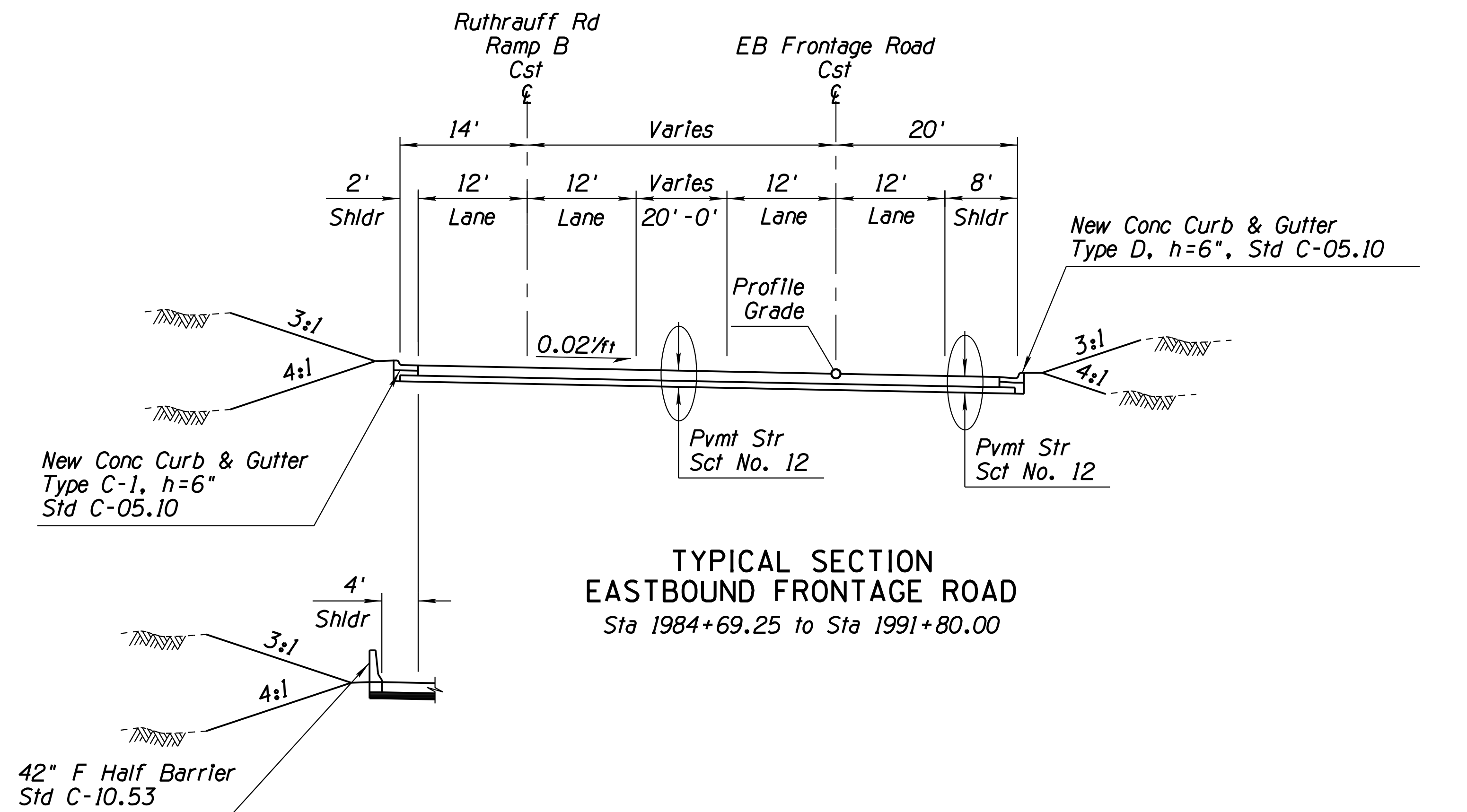
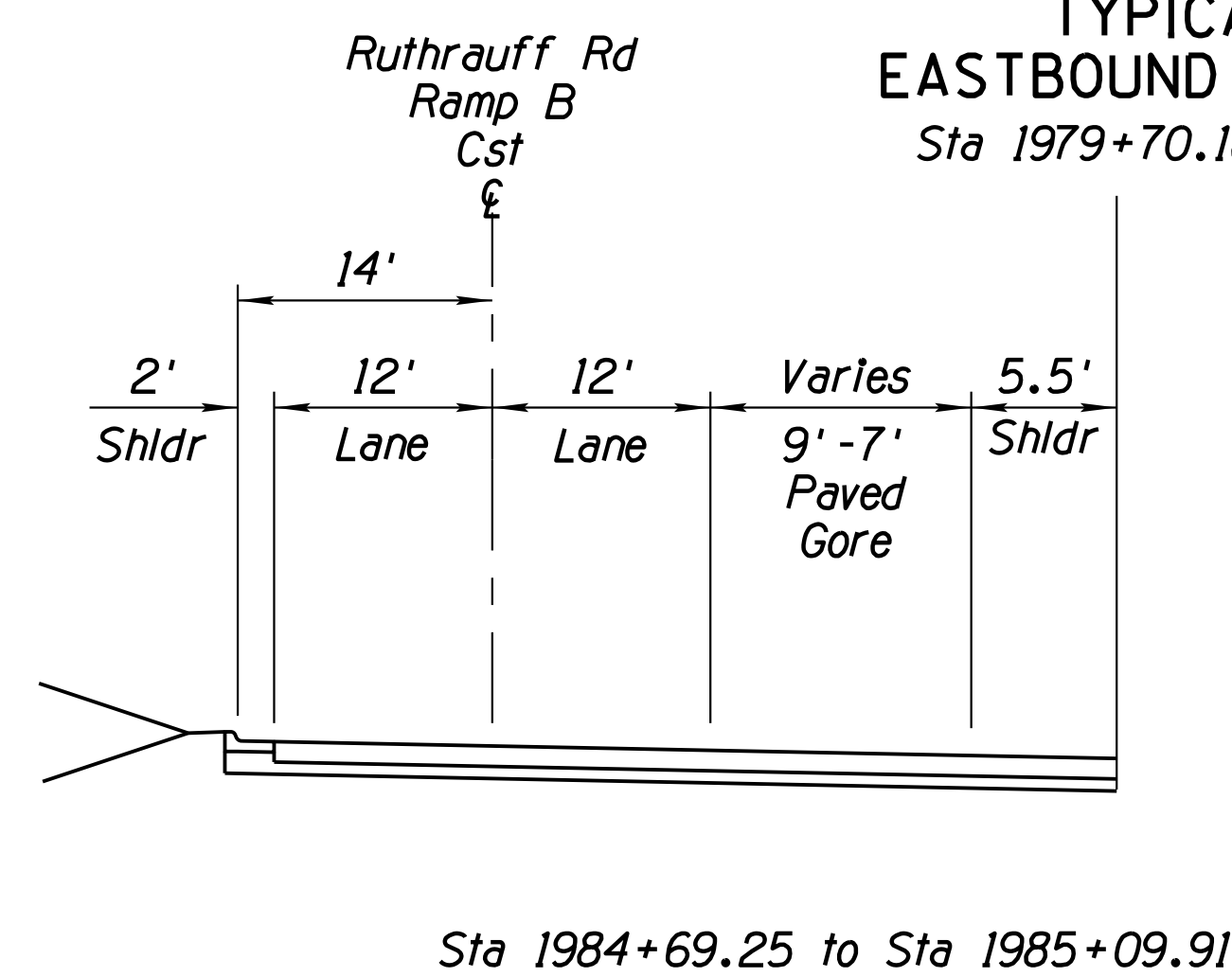
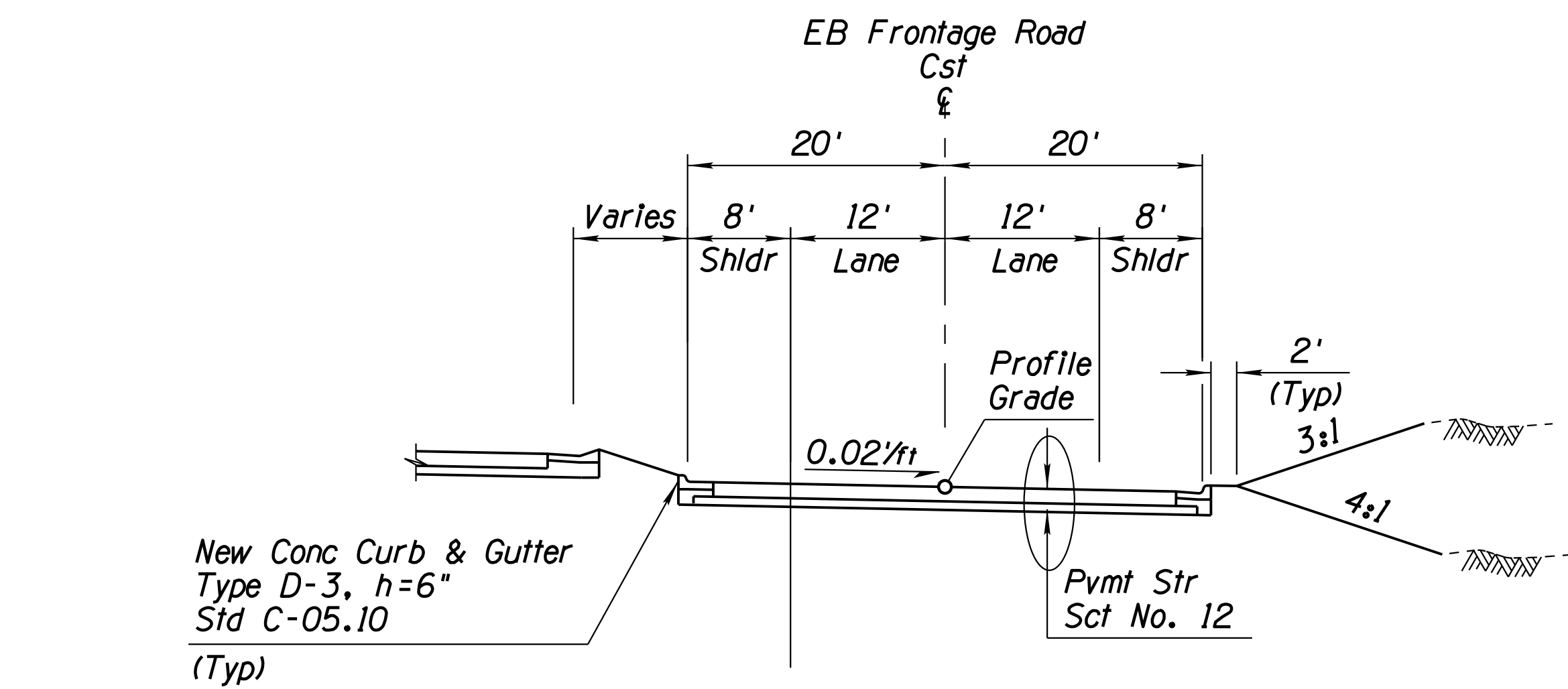
Sta 5241+98.10 to Sta 5242+48.52 WB

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		TYPICAL SECTIONS	
I-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. G-4.07	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	20	849	

010 PM 252

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

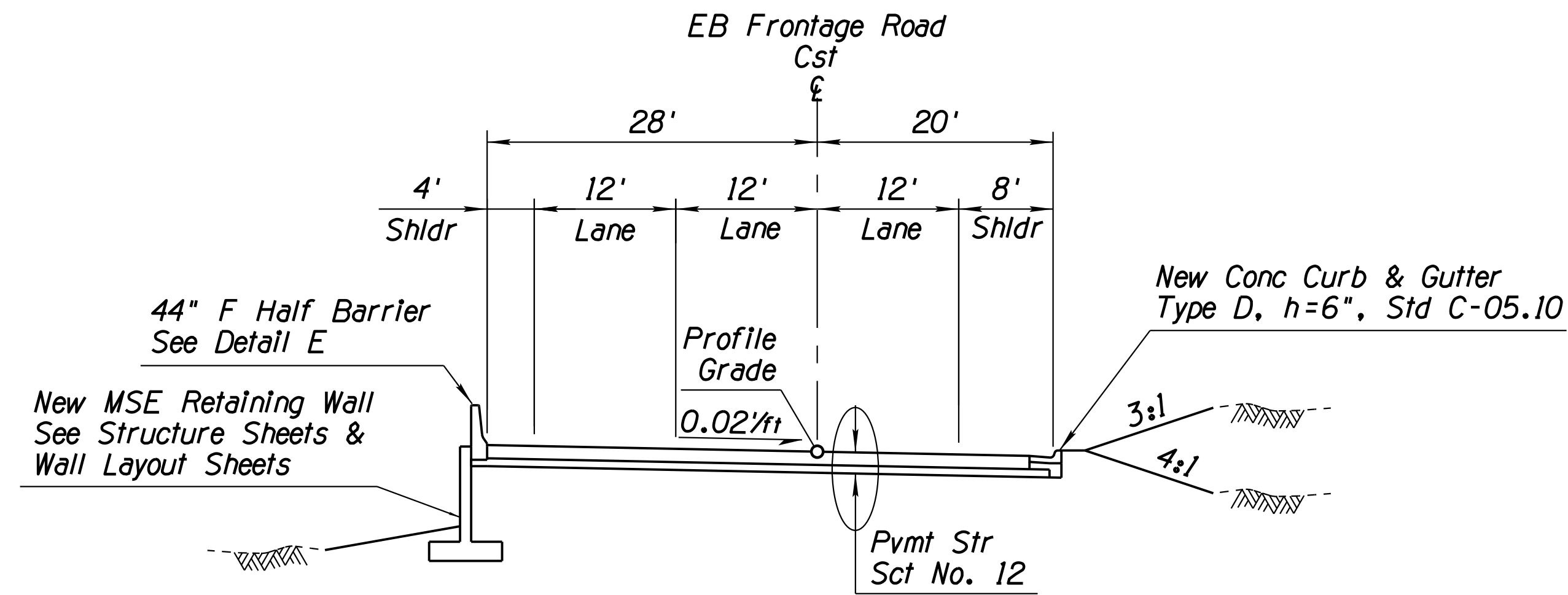


▲ *Varies 0' to 12' Sta 1991+80.00 to Sta 1993+30.00*

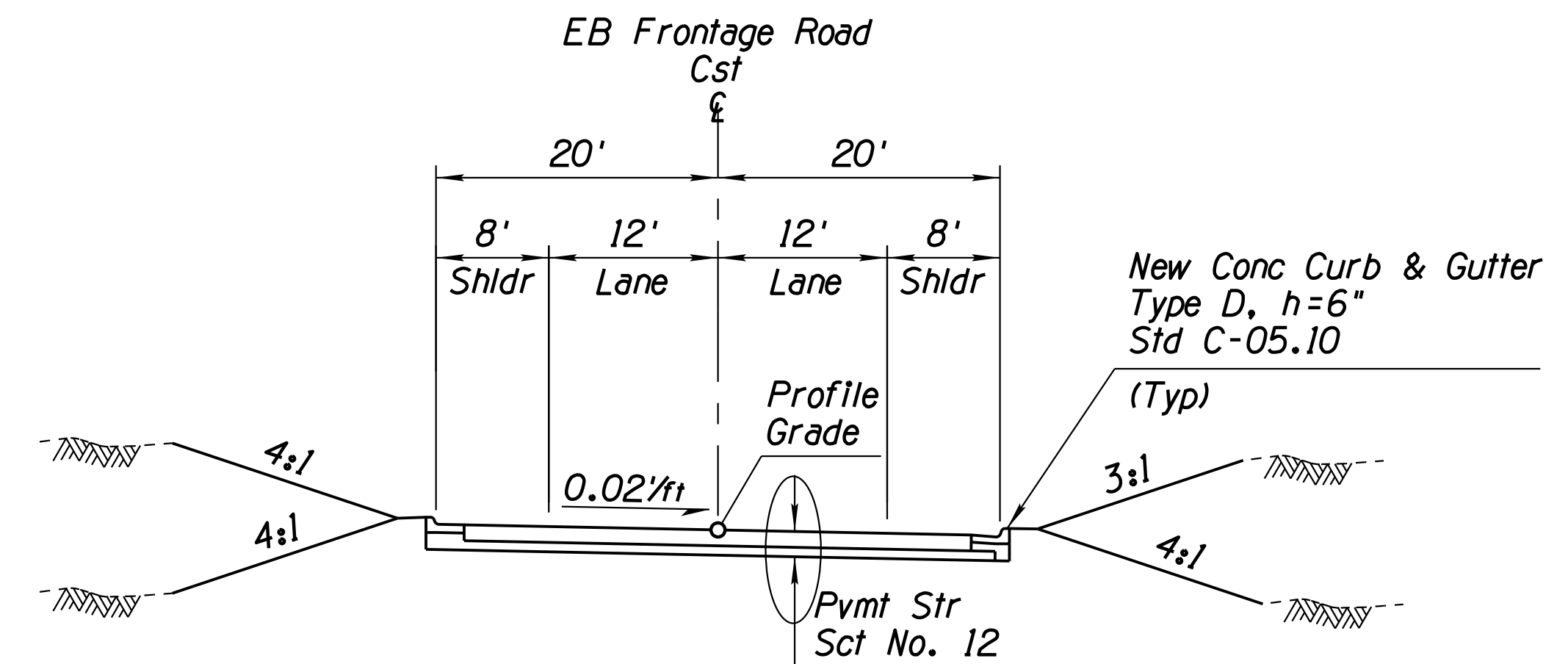
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					Expires 9/30/2019 DWG NO. G-4.08 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	21	849	

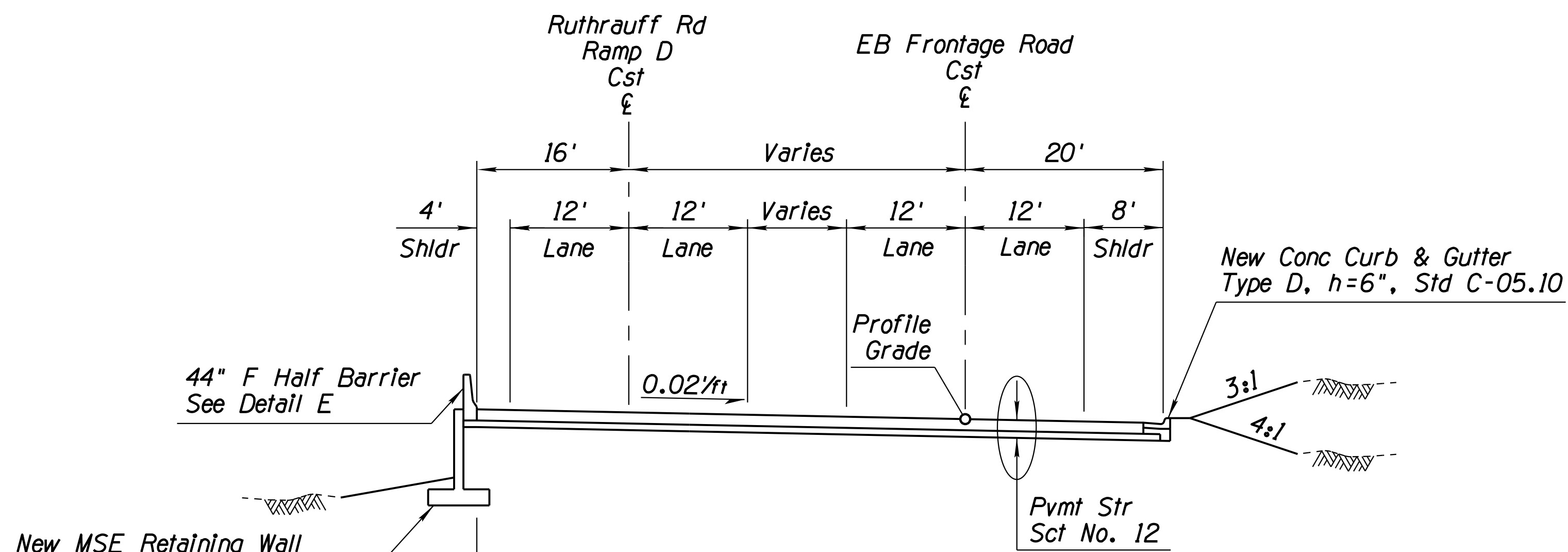
010 PM 252



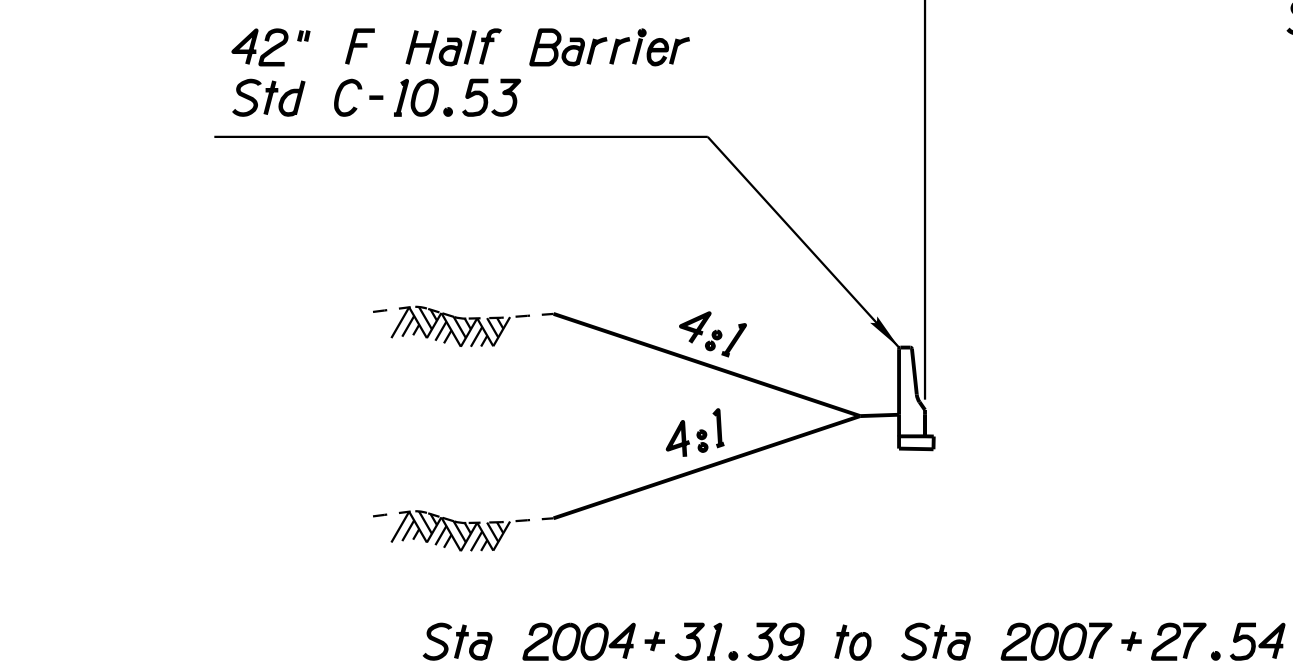
**TYPICAL SECTION  
EASTBOUND FRONTAGE ROAD**  
Sta 1999+19.57 to Sta 2003+77.00



**TYPICAL SECTION  
EASTBOUND FRONTAGE ROAD**  
Sta 2007+27.50 to Sta 2015+00.61



**TYPICAL SECTION  
EASTBOUND FRONTAGE ROAD**  
Sta 2003+77.00 to Sta 2007+27.54

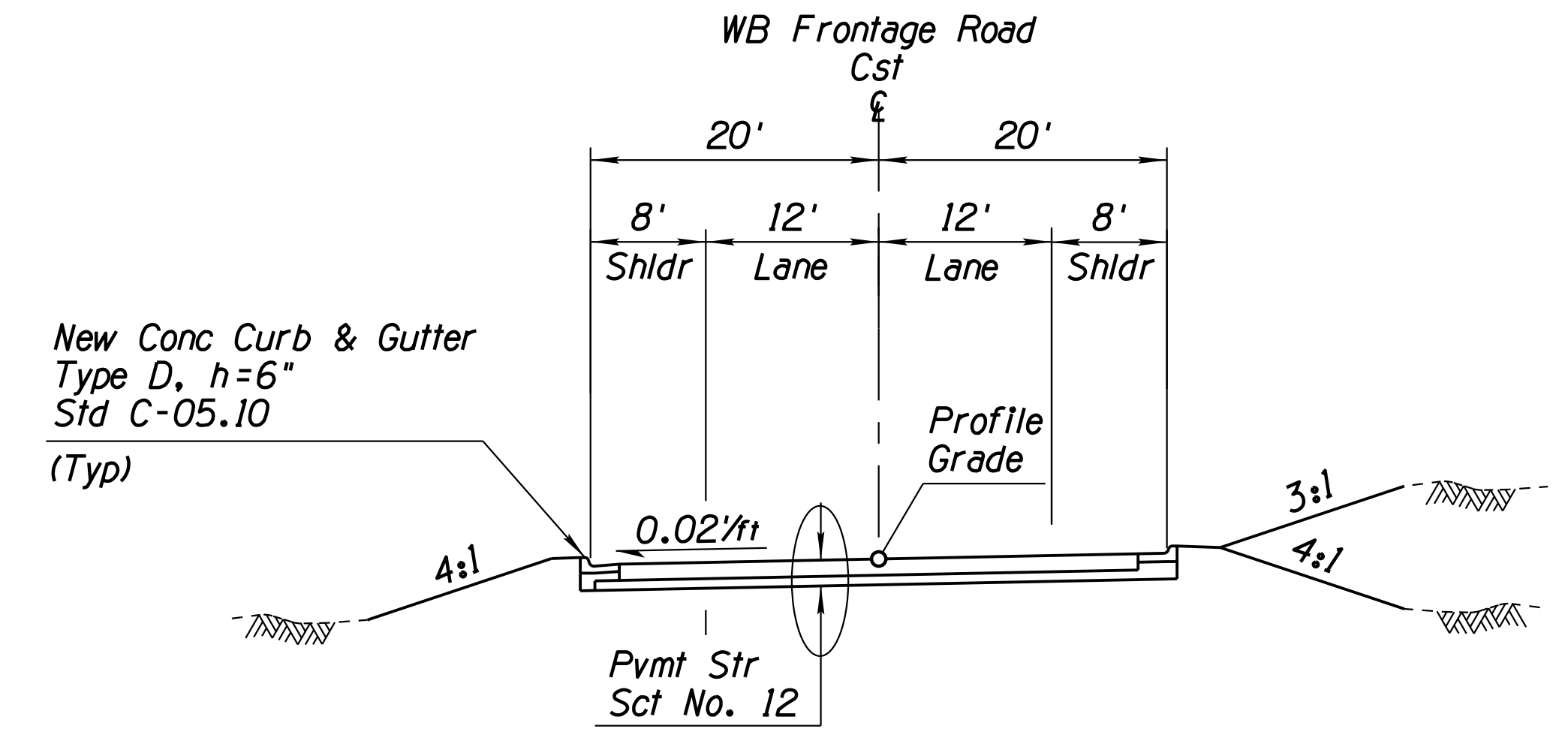


Sta 2004+31.39 to Sta 2007+27.54

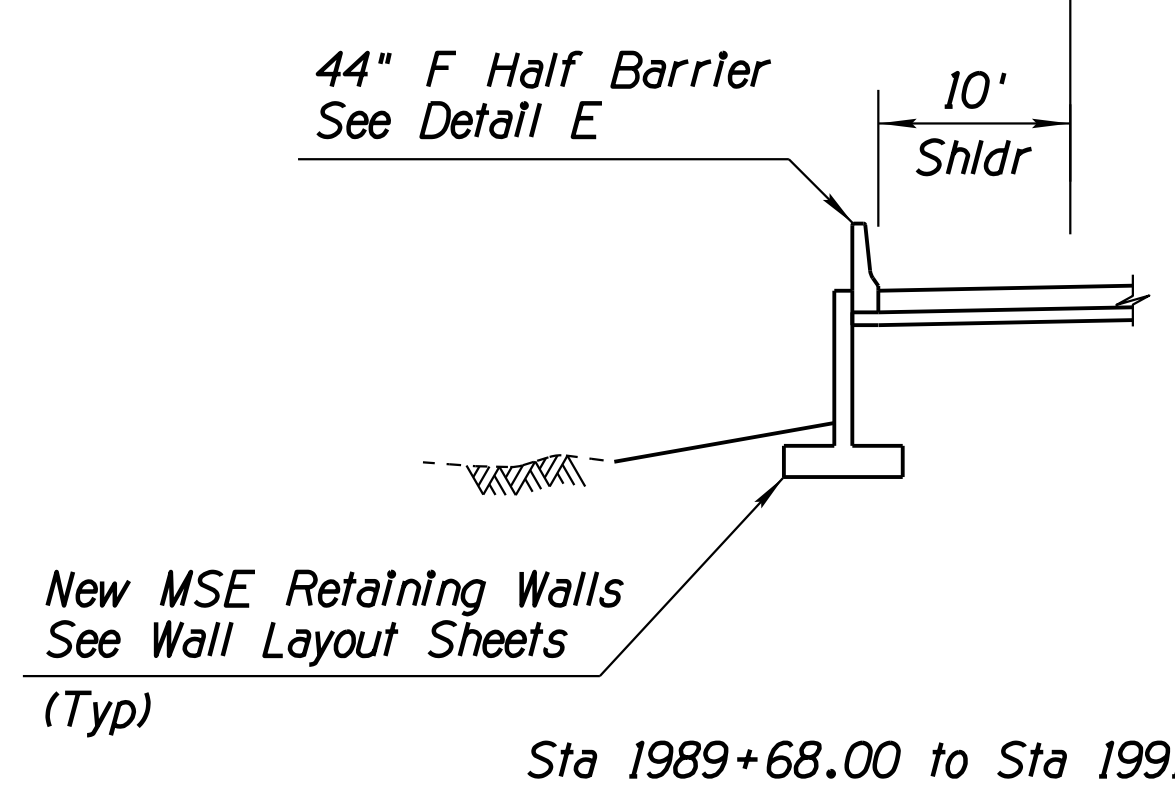
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
ROUTE 1-10		LOCATION RUTHRAUFF ROAD TI		<b>TYPICAL SECTIONS</b> 
TRACS NO. H 8480 OIC		010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	22	849	

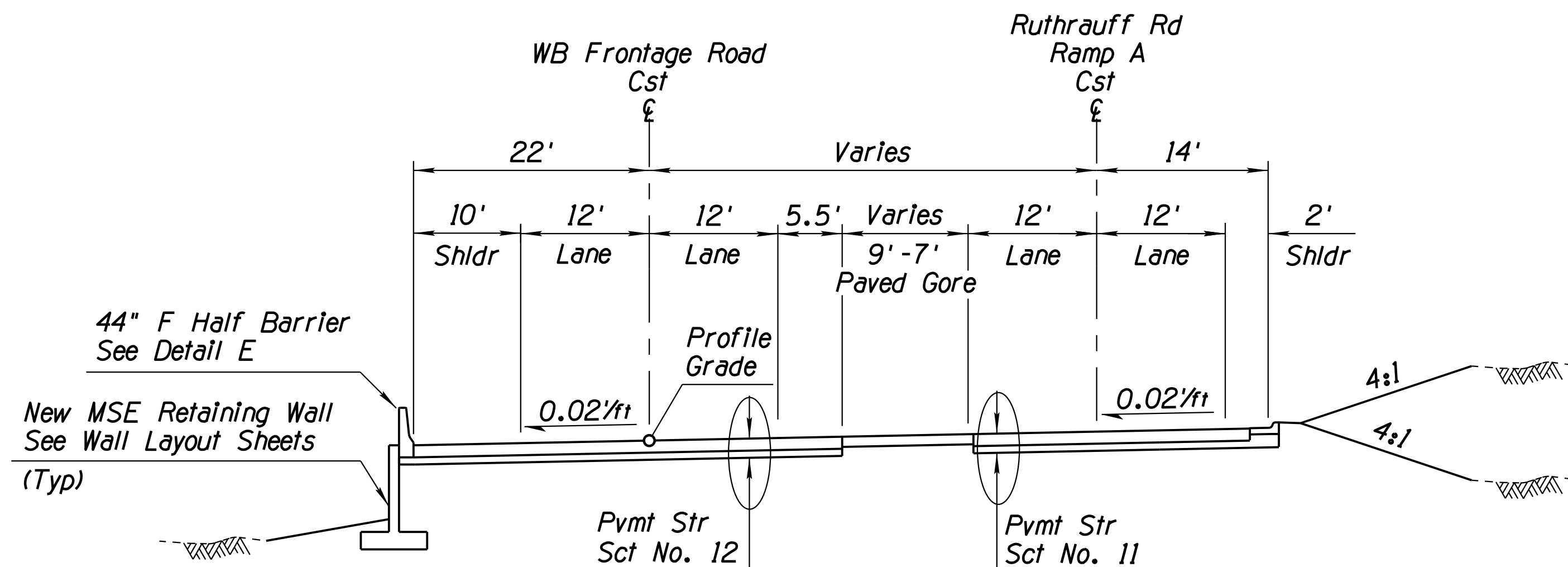
010 PM 252



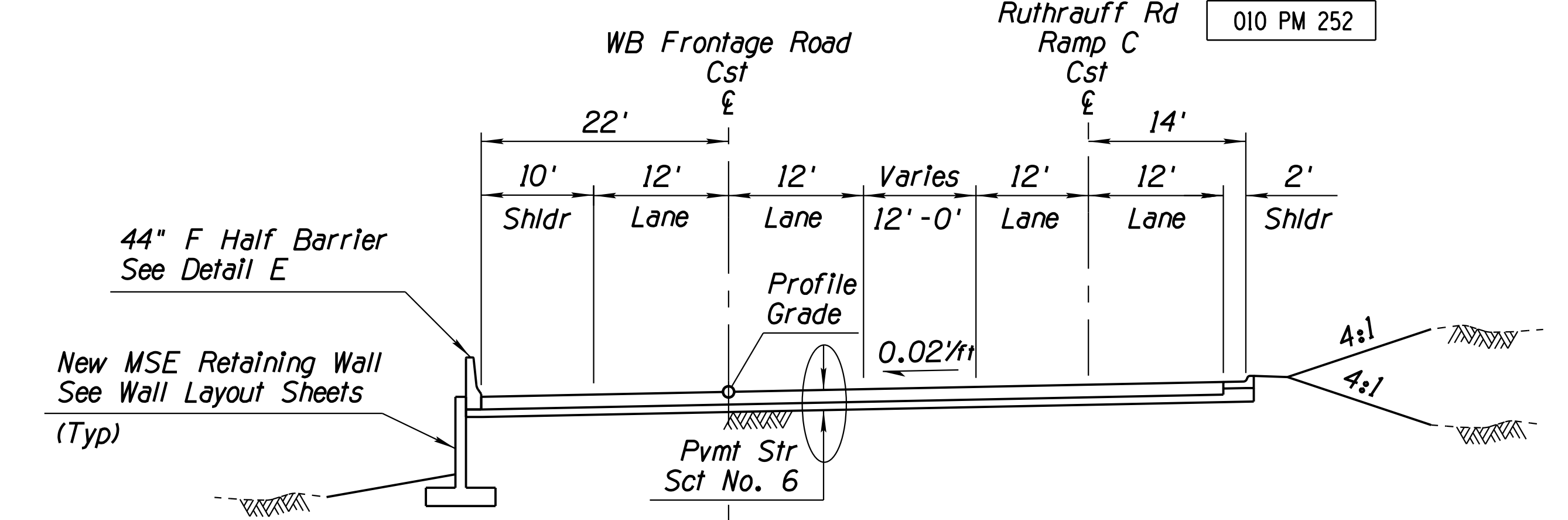
**TYPICAL SECTION WESTBOUND FRONTAGE ROAD**  
Sta 1986+00.00 to Sta 1991+44.77



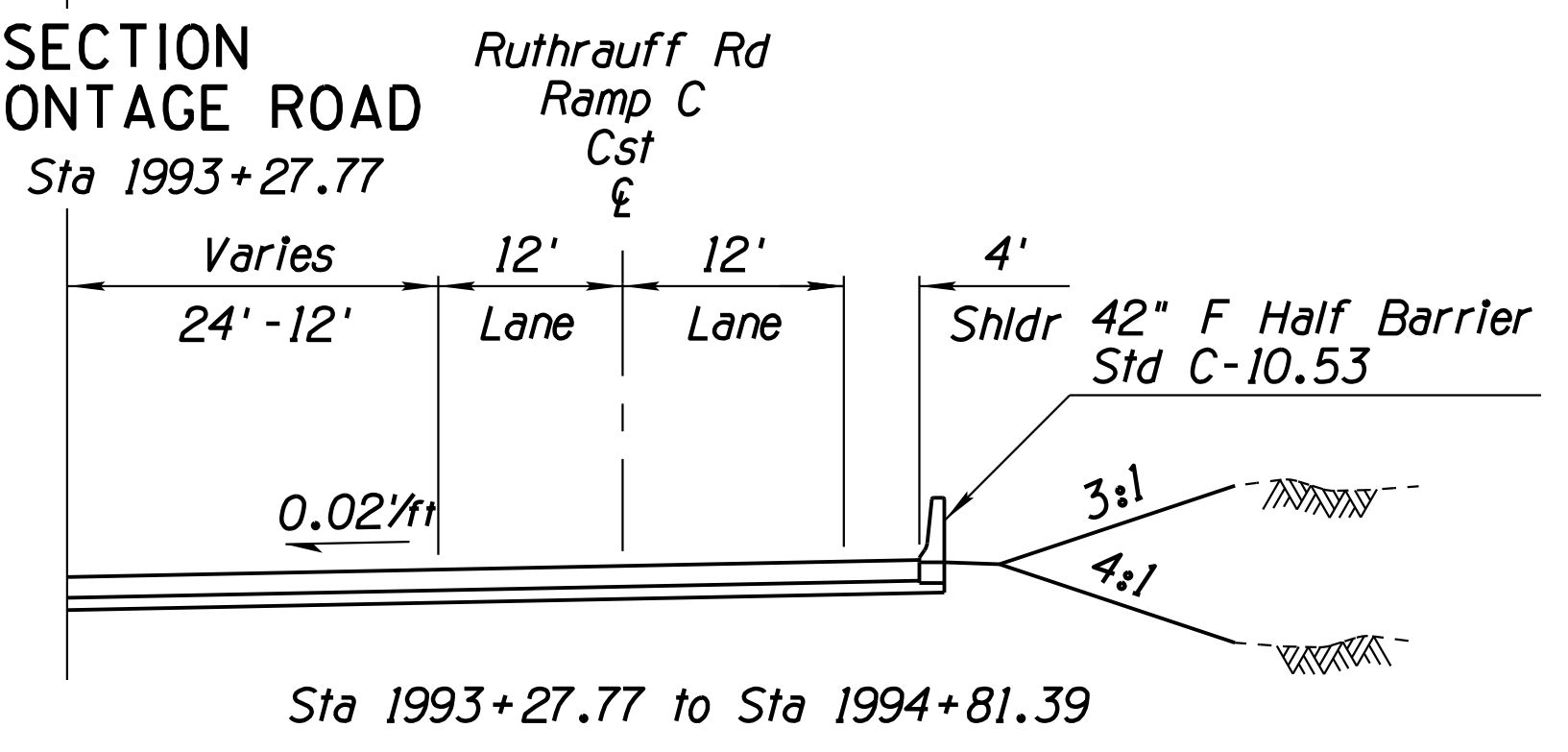
Sta 1989+68.00 to Sta 1991+44.77



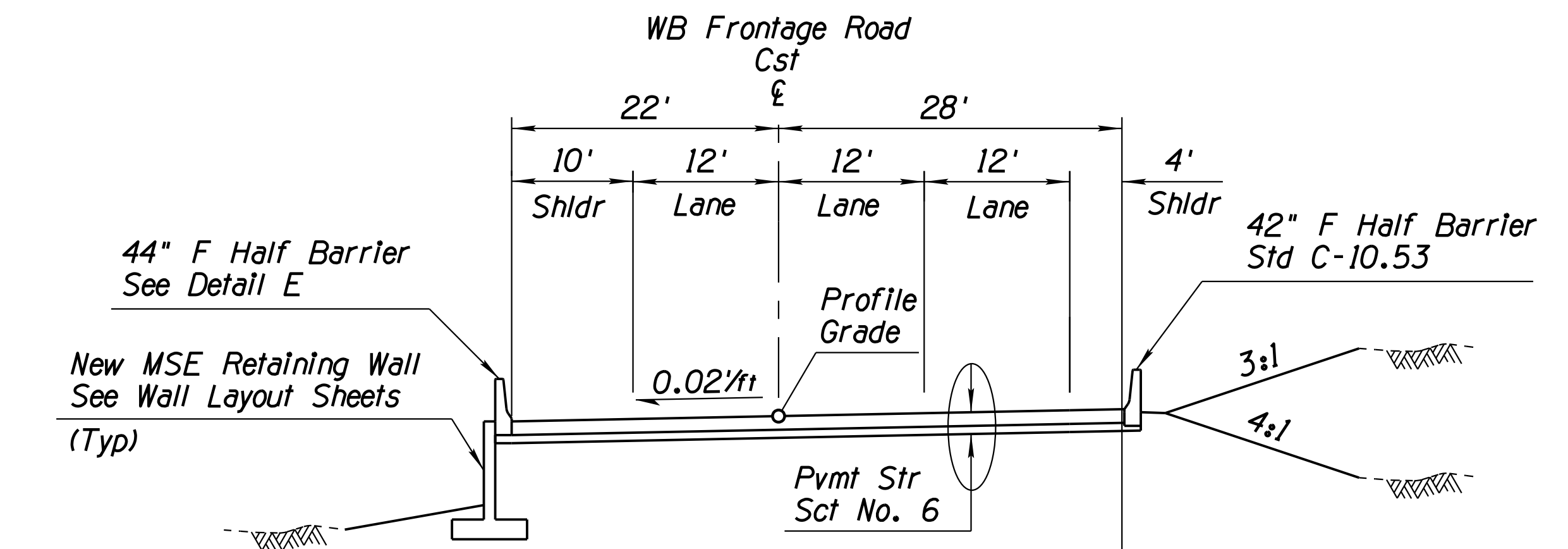
**TYPICAL SECTION WESTBOUND FRONTAGE ROAD**  
Sta 1991+44.77 to Sta 1991+72.02



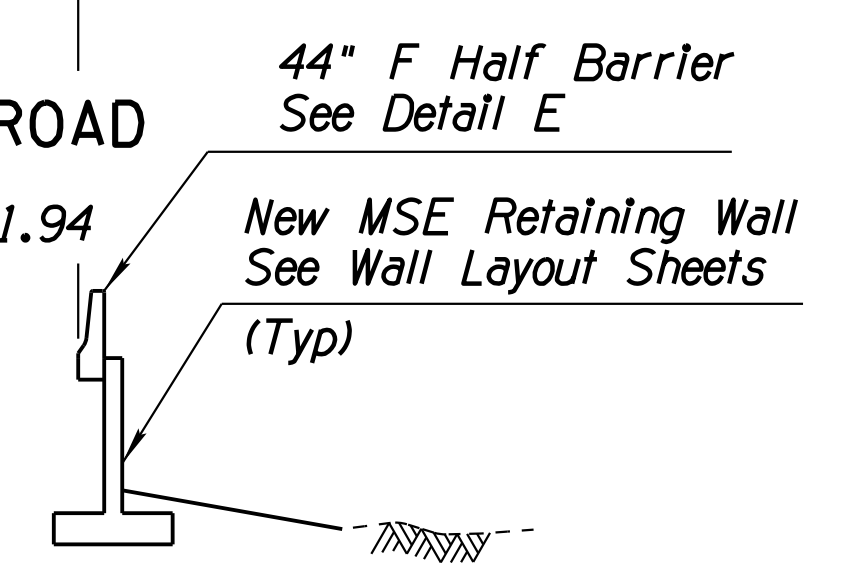
**TYPICAL SECTION WESTBOUND FRONTAGE ROAD**  
Sta 1991+72.02 to Sta 1993+27.77



Sta 1993+27.77 to Sta 1994+81.39



**TYPICAL SECTION WESTBOUND FRONTAGE ROAD**  
Sta 1994+81.39 to Sta 1998+91.94



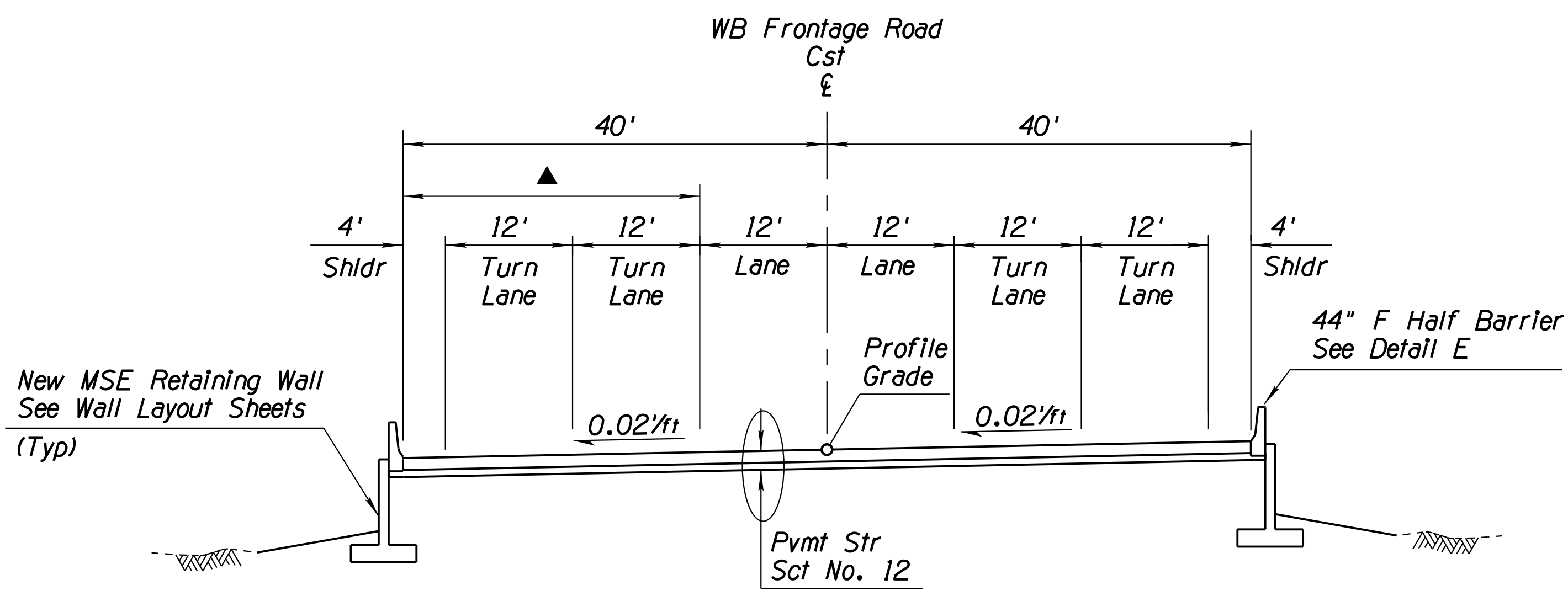
Sta 1995+86.87 to Sta 1998+91.94

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		TYPICAL SECTIONS	
I-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. G-4.10	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

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

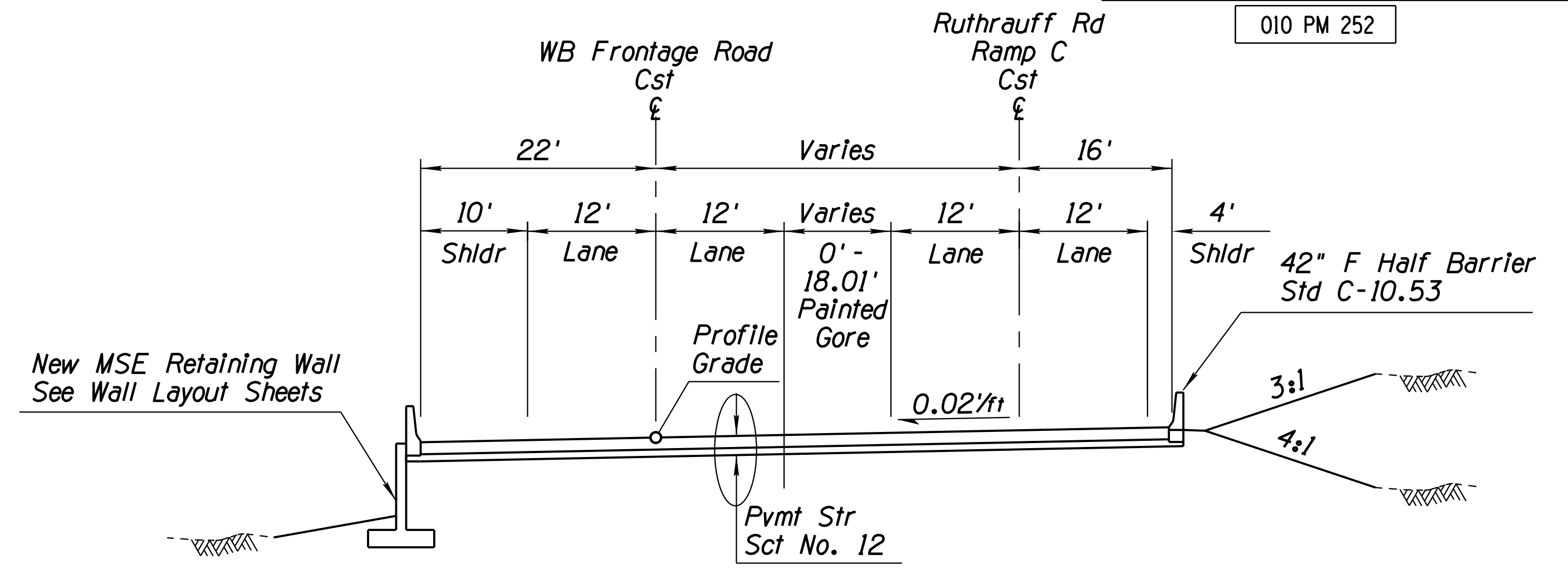
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	23	849	

010 PM 252

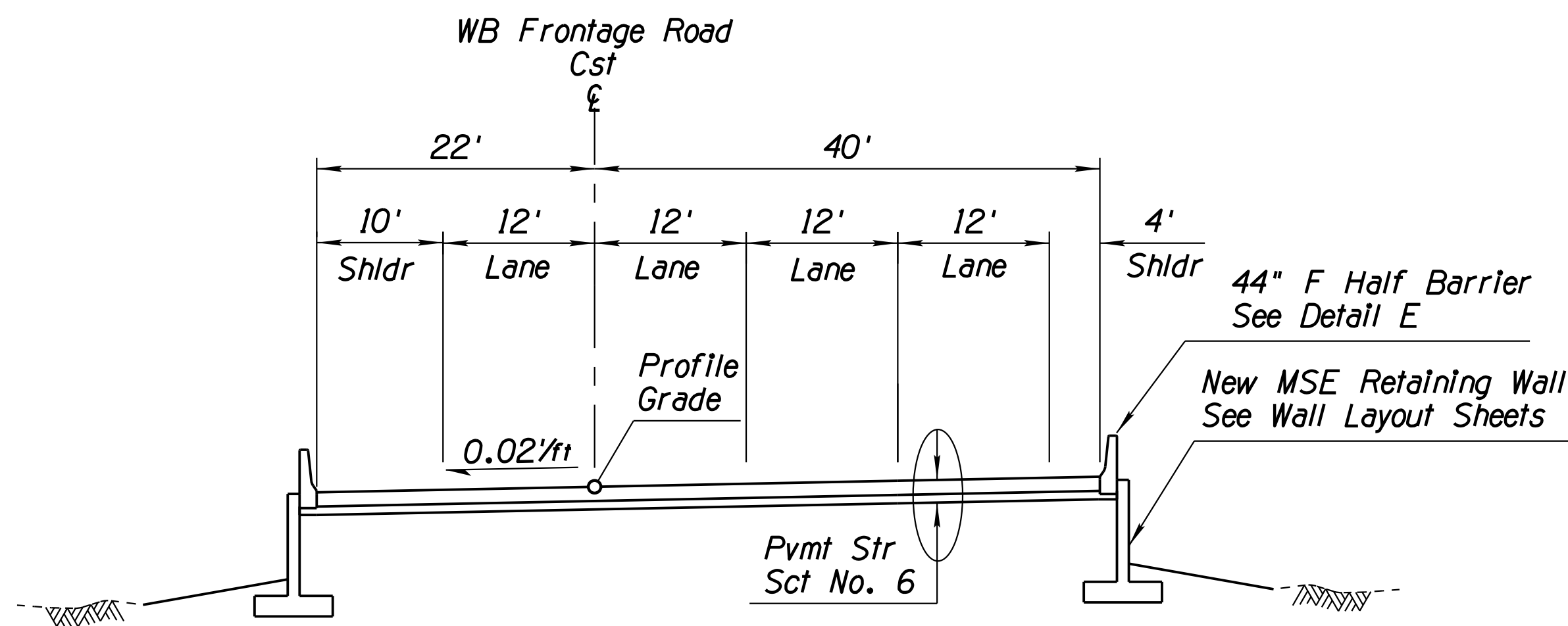
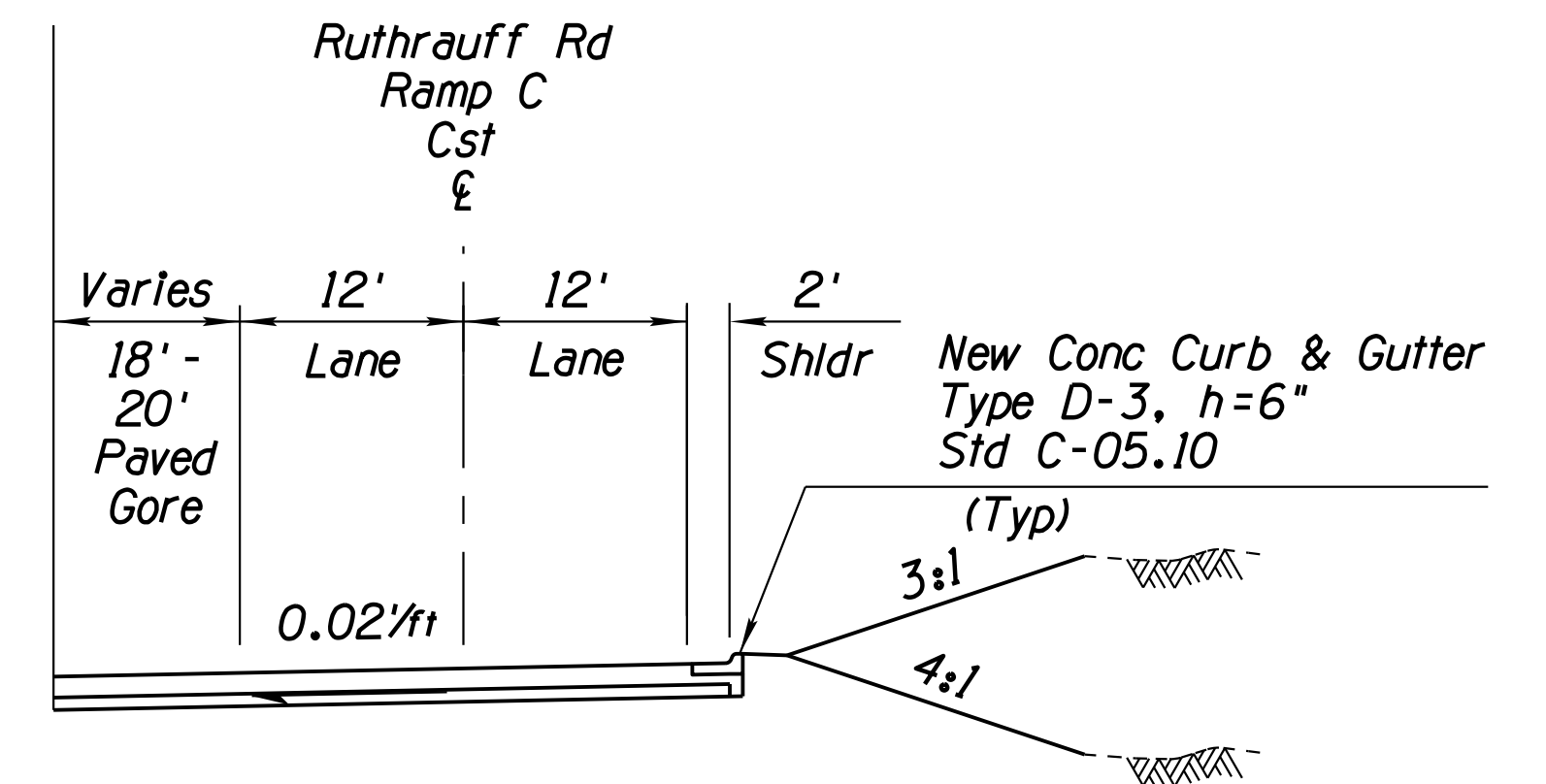


**TYPICAL SECTION  
WESTBOUND FRONTAGE ROAD**  
Sta 2002+93.63 to Sta 2009+93.50

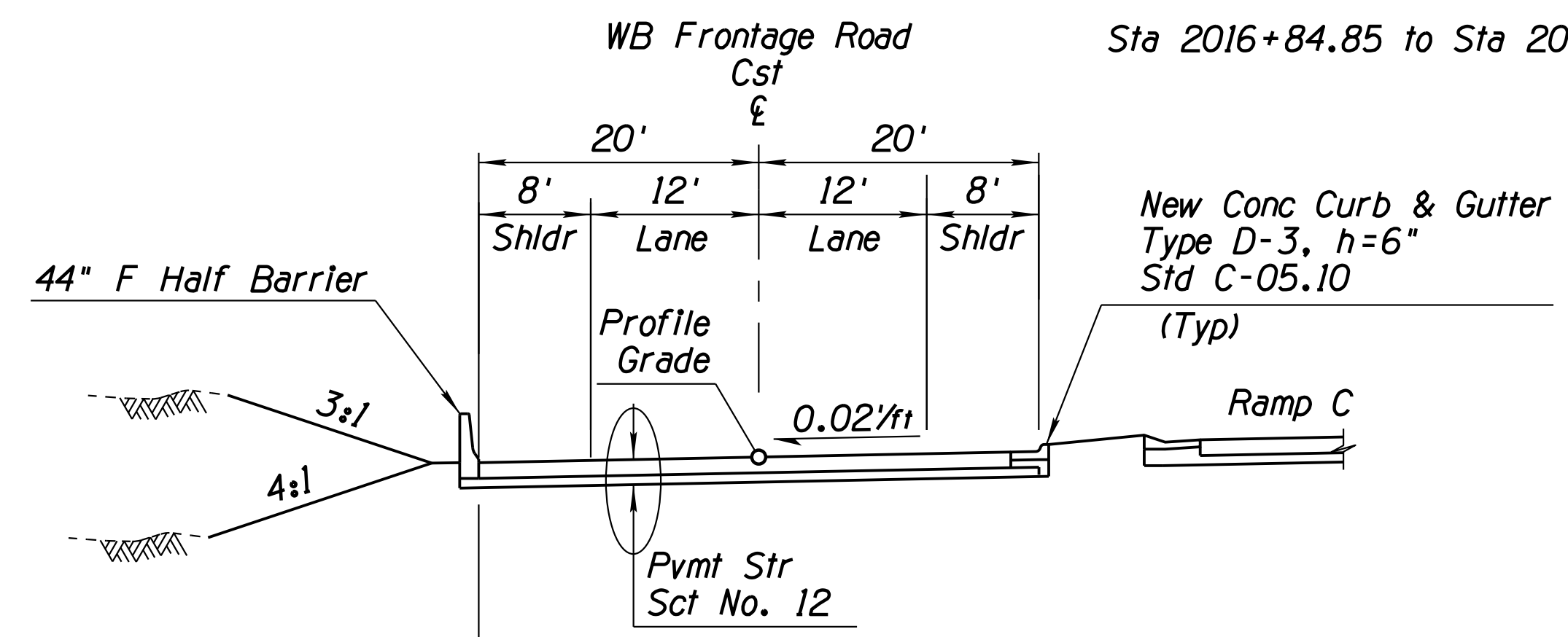
▲ *Varies 28' to 10'* Sta 2008+13.50 to Sta 2009+93.50



**TYPICAL SECTION  
WESTBOUND FRONTAGE ROAD**  
Sta 2010+17.91 to Sta 2016+84.85



**TYPICAL SECTION  
WESTBOUND FRONTAGE ROAD**  
Sta 2009+93.40 to Sta 2010+17.91



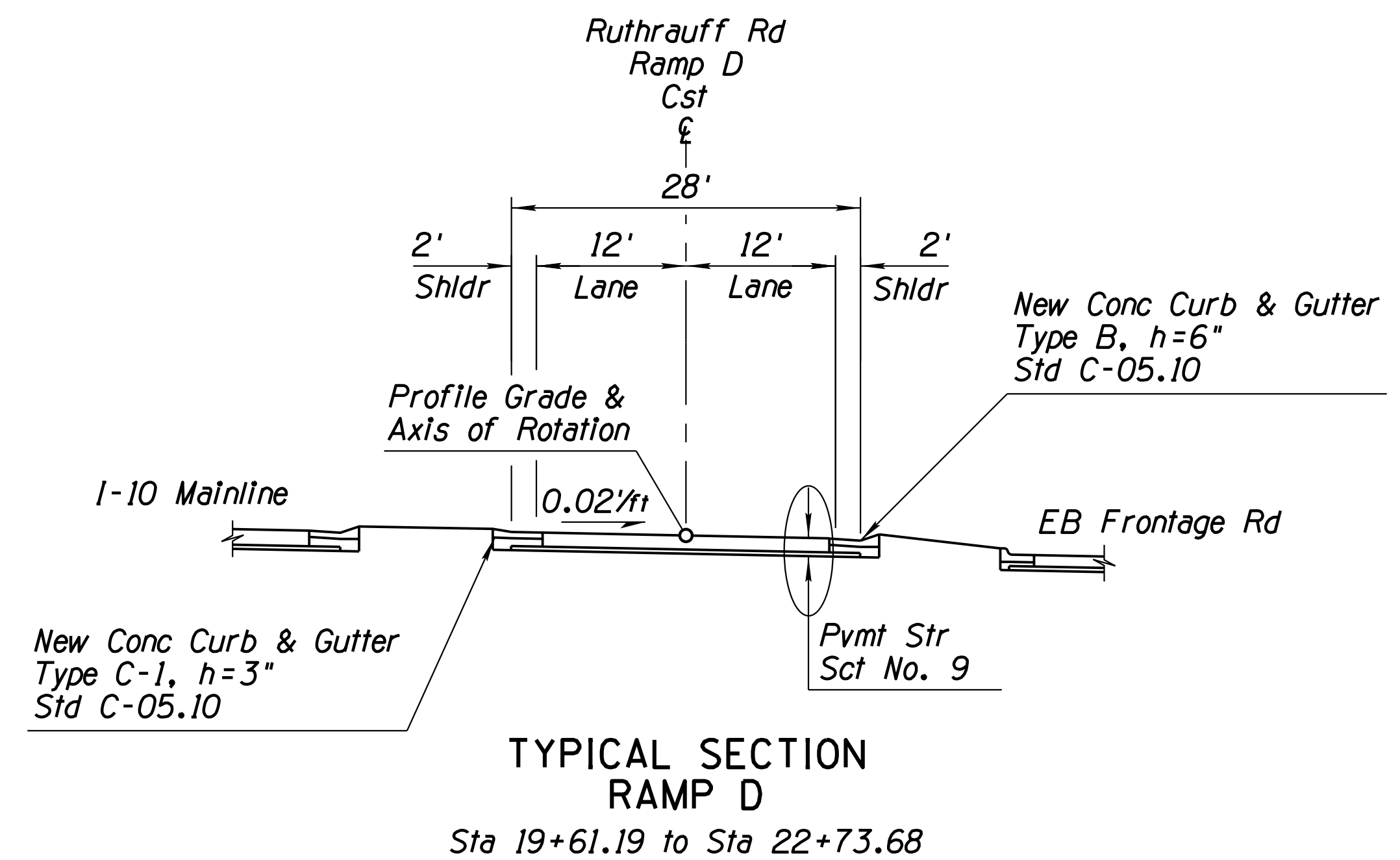
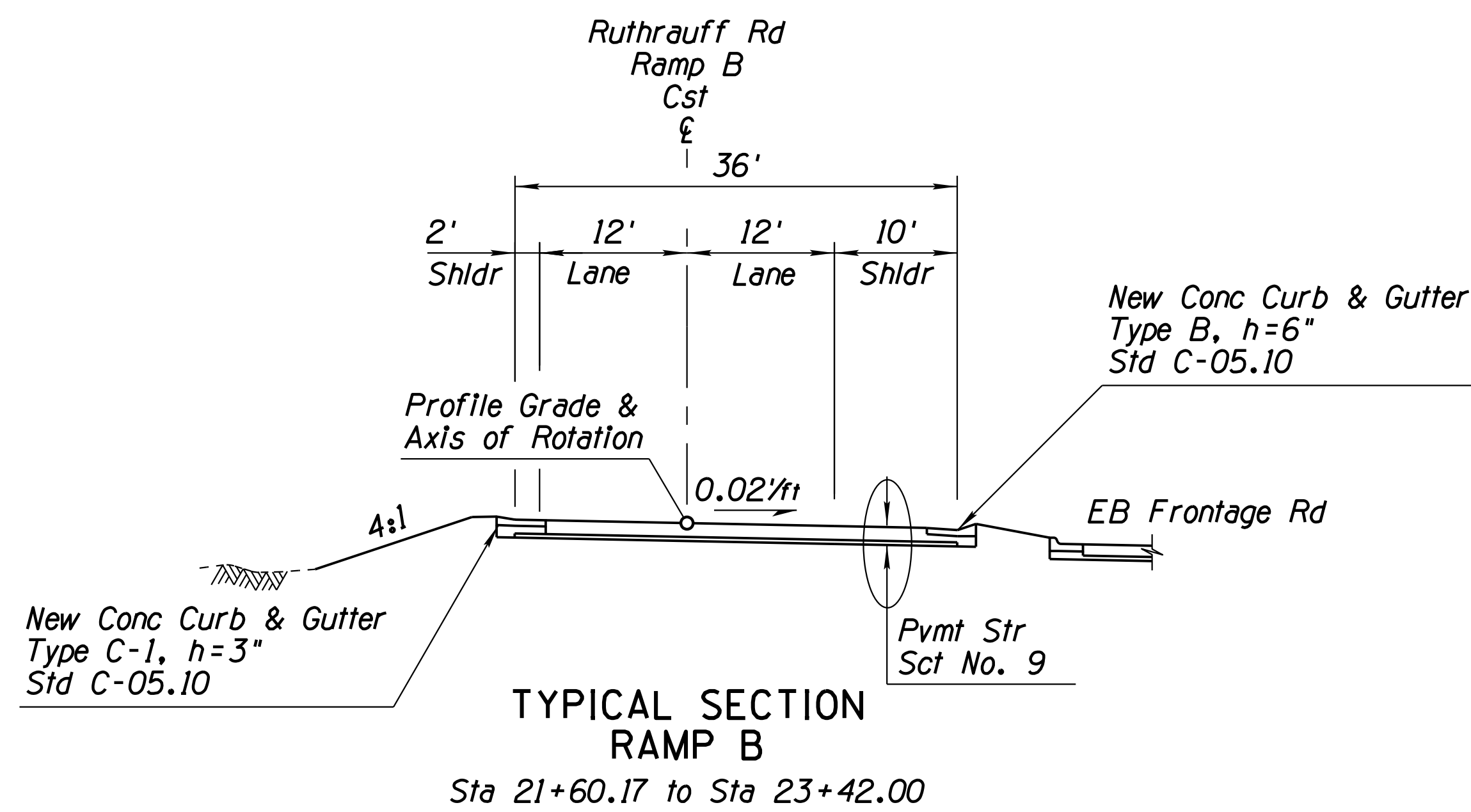
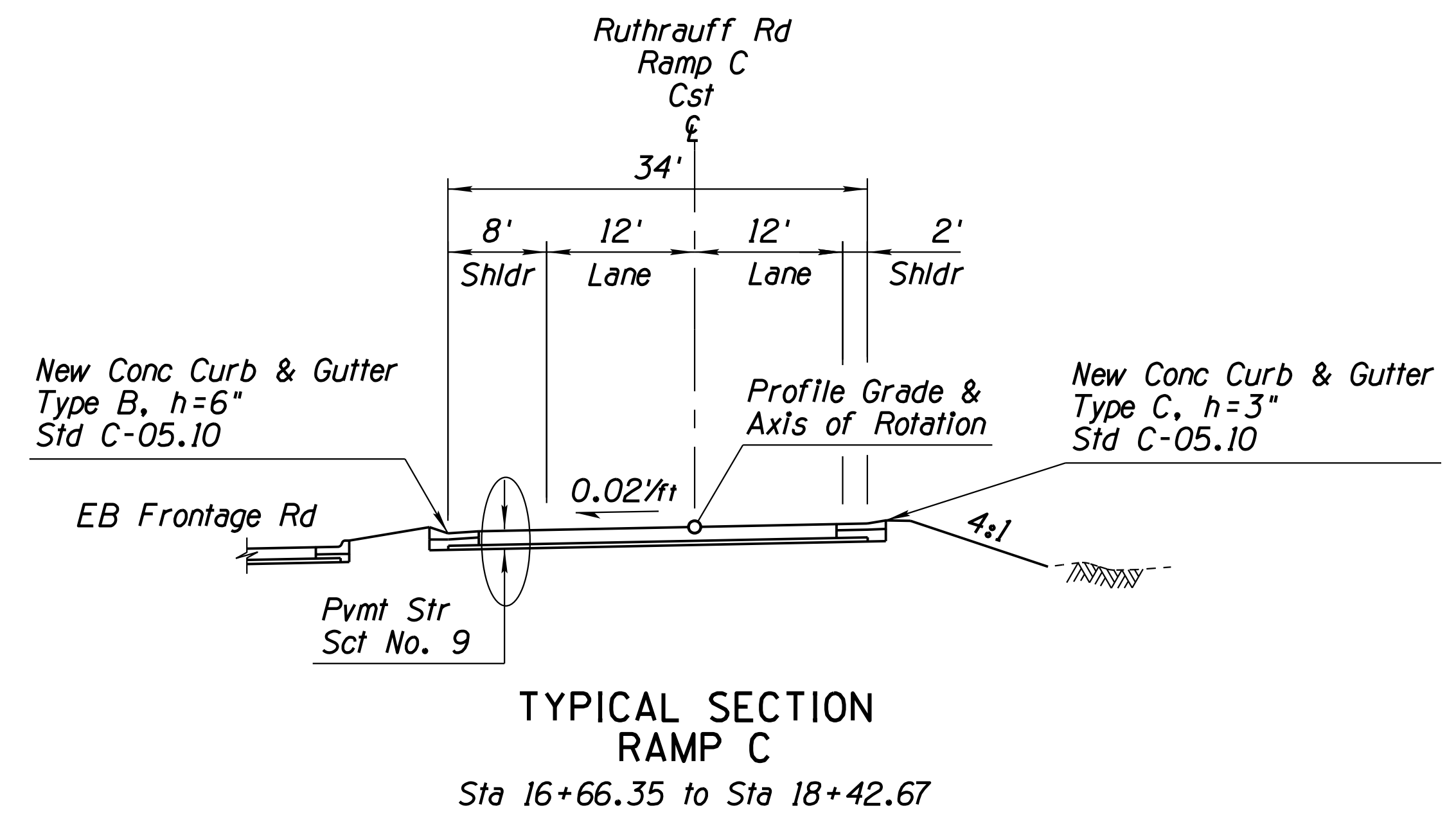
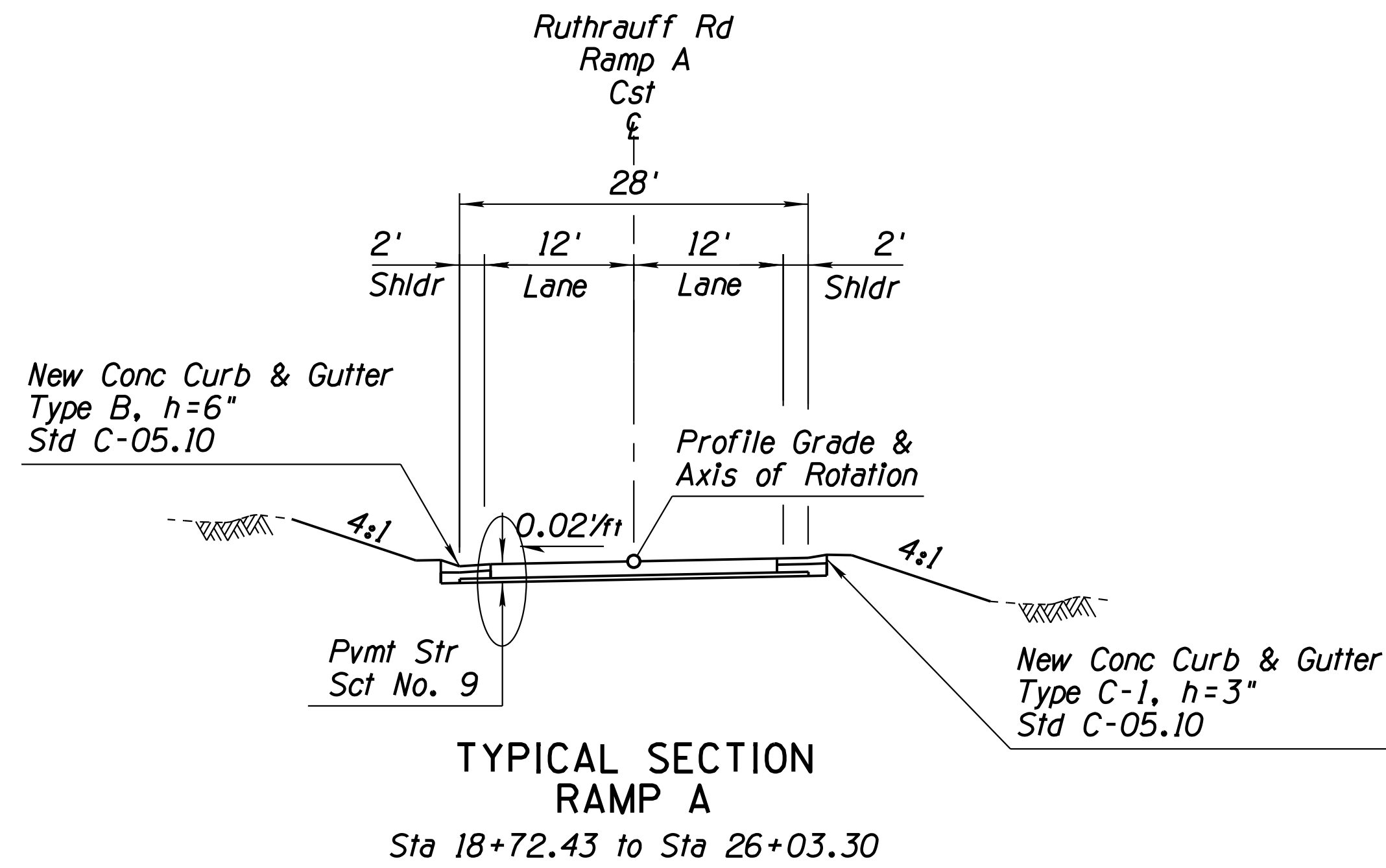
**TYPICAL SECTION  
WESTBOUND FRONTAGE ROAD**  
Sta 2017+13.63 to Sta 2018+08.00

Sta 2018+53.00 to Sta 2022+00.00

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
				TYPICAL SECTIONS	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-4.11

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	24	849	

010 PM 252



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b> 
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-4.12 OF

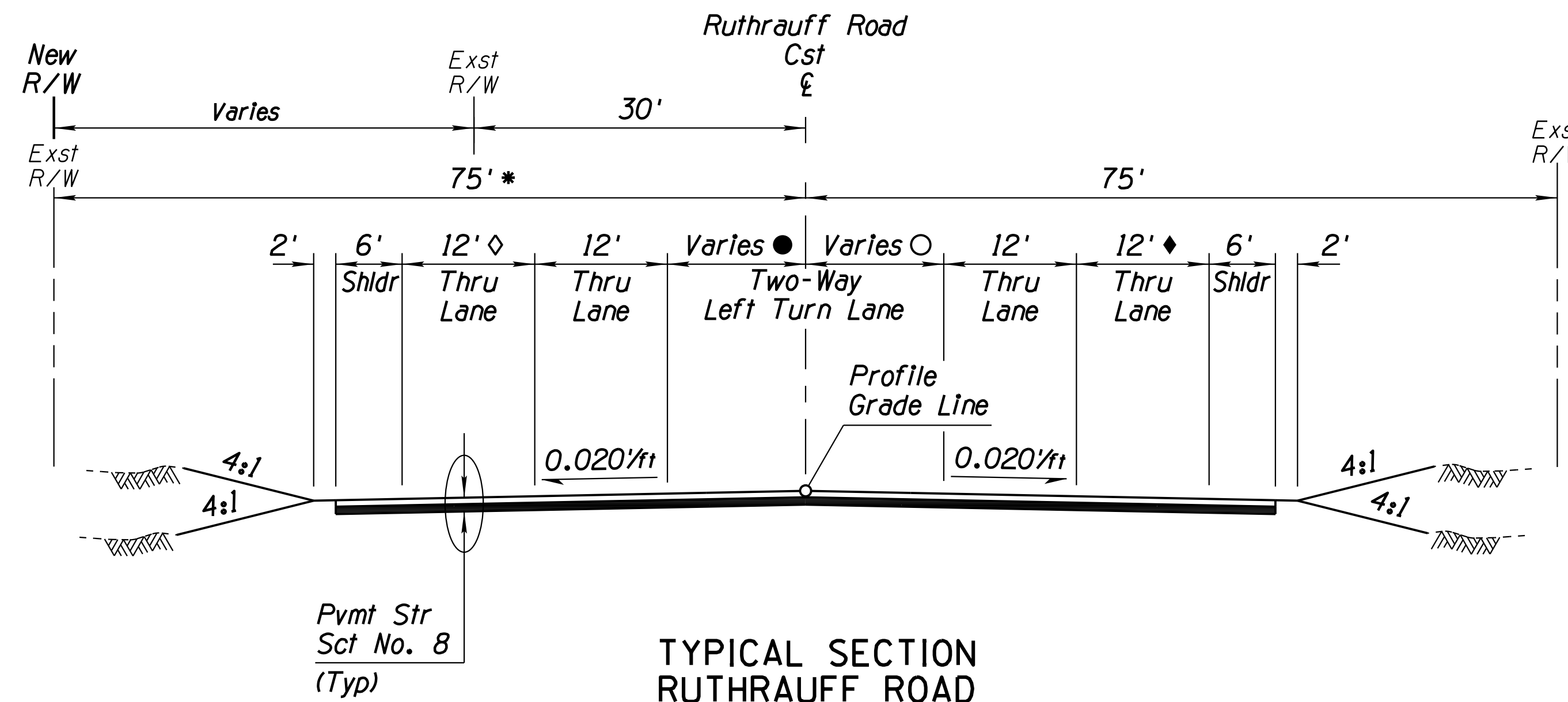
REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- DATE- REVISIONS- FINISHED PLANS- SURVEY NO. DATE-

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	25	849	

010 PM 252

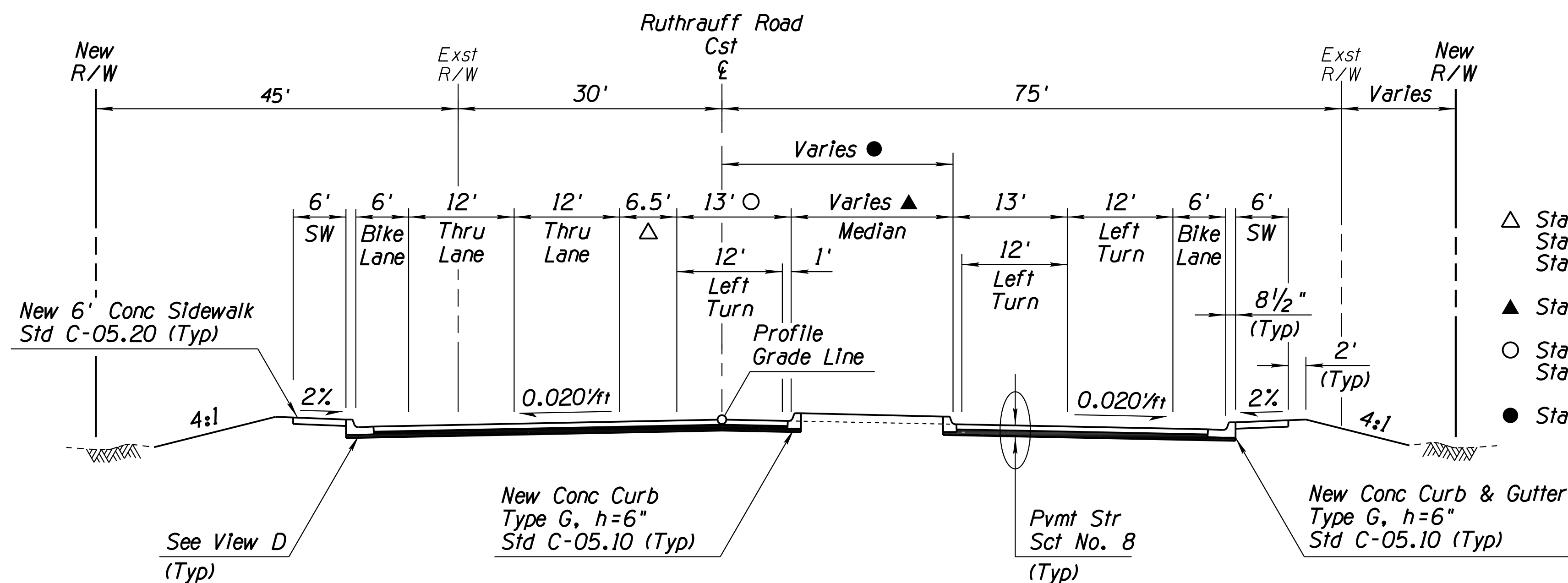
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

\* Sta 80+00.00 to Sta 88+60.09



**TYPICAL SECTION  
RUTHRAUFF ROAD**  
Sta 81+00.00 to Sta 89+37.61

- Sta 81+00.00 to Sta 85+29.58 2.5'
- Sta 85+29.58 to Sta 89+37.61 2.5' to 11.57'
- Sta 81+00.00 to Sta 86+98.85 9.5'
- Sta 86+98.85 to Sta 89+37.61 9.5' to 14.81'
- ◆ Sta 81+00.00 to Sta 81+58.58 0'
- Sta 81+58.58 to Sta 86+98.71 0' to 12'
- Sta 86+98.71 to Sta 89+37.61 12'
- ◇ Sta 81+00.00 to Sta 85+29.45 2.46' to 12'
- Sta 85+29.45 to Sta 89+37.61 12'



**TYPICAL SECTION  
RUTHRAUFF ROAD**  
Sta 89+37.61 to Sta 91+44.76

- △ Sta 89+37.61 to Sta 90+90.54 6.5'
- Sta 90+90.54 to Sta 91+25.18 6.5' to 0'
- Sta 91+25.18 to Sta 91+44.76 0'
- ▲ Sta 89+37.61 to Sta 91+44.76 6' to 18.41'
- Sta 90+90.54 to Sta 91+25.18 13' to 18.15'
- Sta 91+25.18 to Sta 91+44.76 18.15' to 16.17'
- Sta 89+37.61 to Sta 91+44.76 14.81' to 18.41'

**NOTE:** The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction E has been designated as Ruthrauff Road Cst E for entire length.

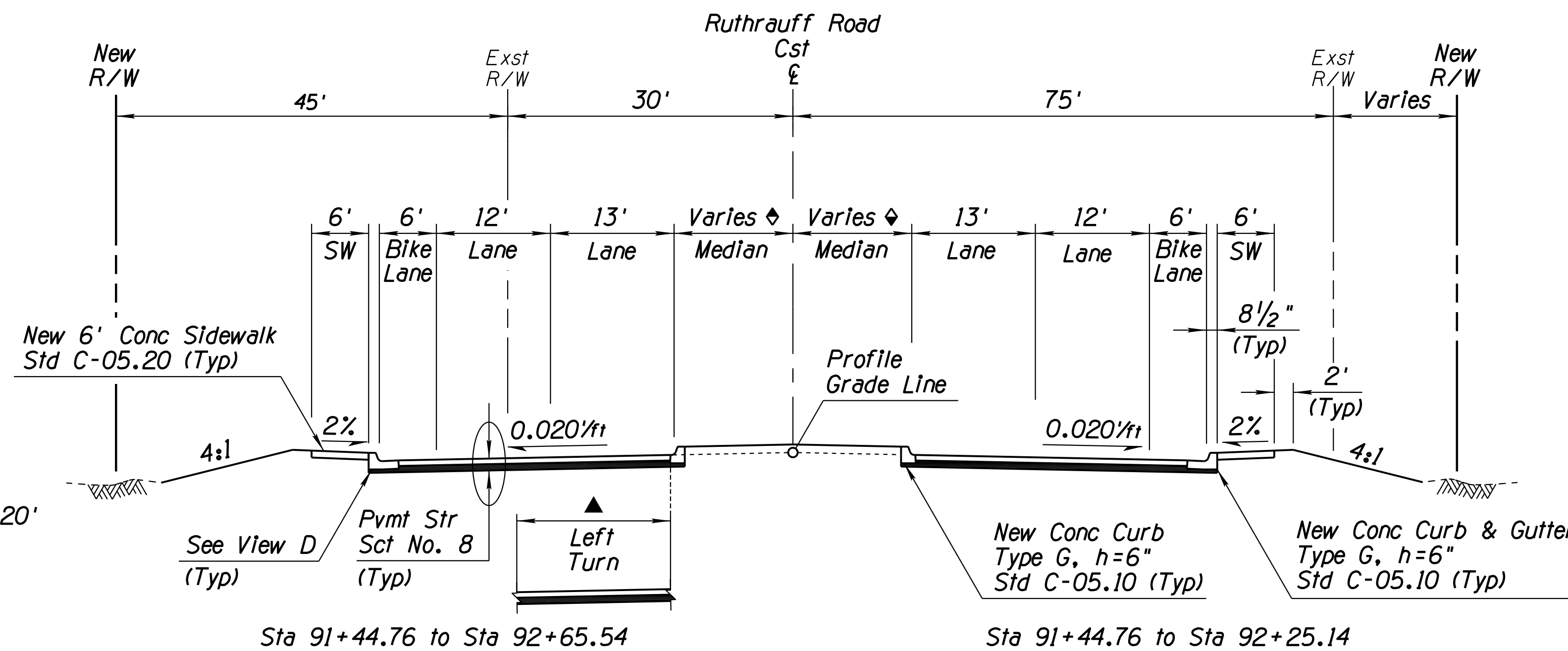
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD TYPICAL SECTIONS SHEET 1 OF 4	
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. G-5.01	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	26	849	

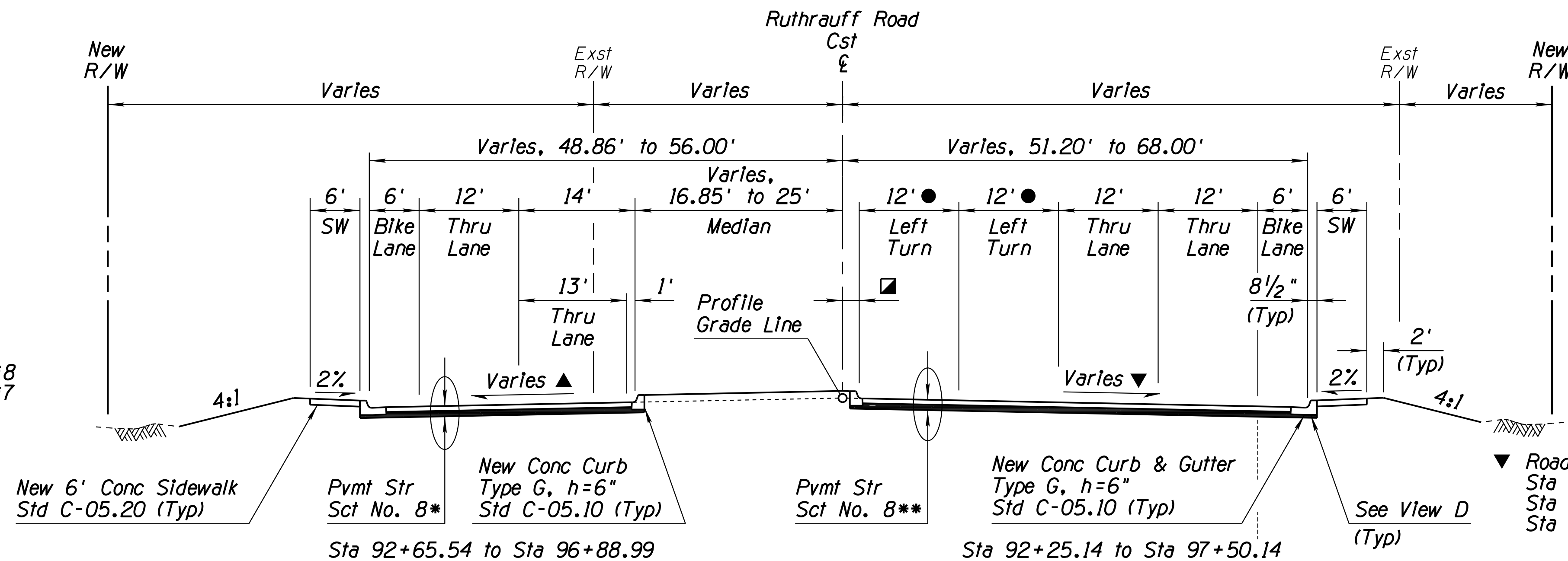
010 PM 252

- ◆ Sta 91+44.76 to Sta 92+65.54 0' to 16.85'
- ◇ Sta 91+44.76 to Sta 92+25.14 18.41' to 20.20'
- ▲ Sta 91+44.76 to Sta 92+65.54 16.17' to 0'



TYPICAL SECTION RUTHRAUFF ROAD

- \* Sta 92+65.54 to Sta 92+81.23 PSS #8
- Sta 92+81.23 to Sta 96+88.99 PSS #7



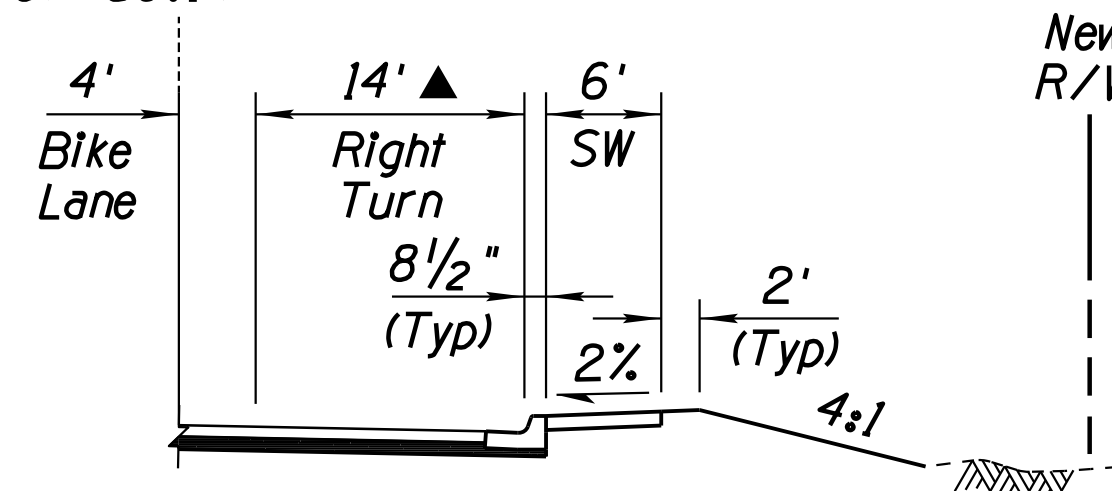
TYPICAL SECTION RUTHRAUFF ROAD

- \*\* Sta 92+25.14 to Sta 92+81.23 PSS #8
- Sta 92+81.23 to Sta 97+50.14 PSS #7

- ▲ Roadway Cross Slope  
Sta 92+65.54 to Sta 95+14.00 0.02'/ft  
Sta 95+14.00 to Sta 95+80.00 0.02'/ft to 0.015'/ft  
Sta 95+80.00 to Sta 96+88.99 0.015'/ft

- Median Right  
Sta 92+25.14 to Sta 94+00.14 20.2' to 1'  
Sta 94+00.14 to Sta 97+19.69 1'

- Eastbound Left Turn Lanes  
Sta 92+25.14 to Sta 94+00.14 0' to 12'  
Sta 94+00.14 to Sta 97+56.89 12'



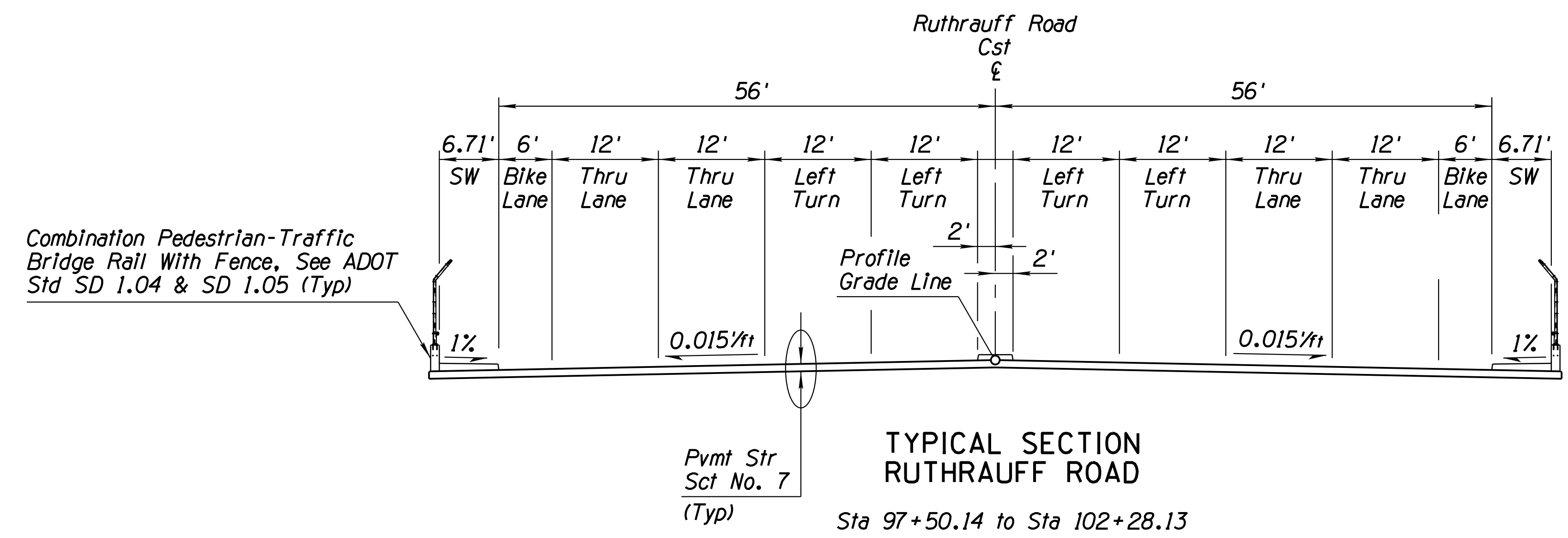
- ▲ Sta 93+10.14 to Sta 94+00.14 0' to 14'
- Sta 94+00.14 to Sta 97+50.14 14'

NOTE: The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction  $\xi$  has been designated as Ruthrauff Road Cst  $\xi$  for entire length.

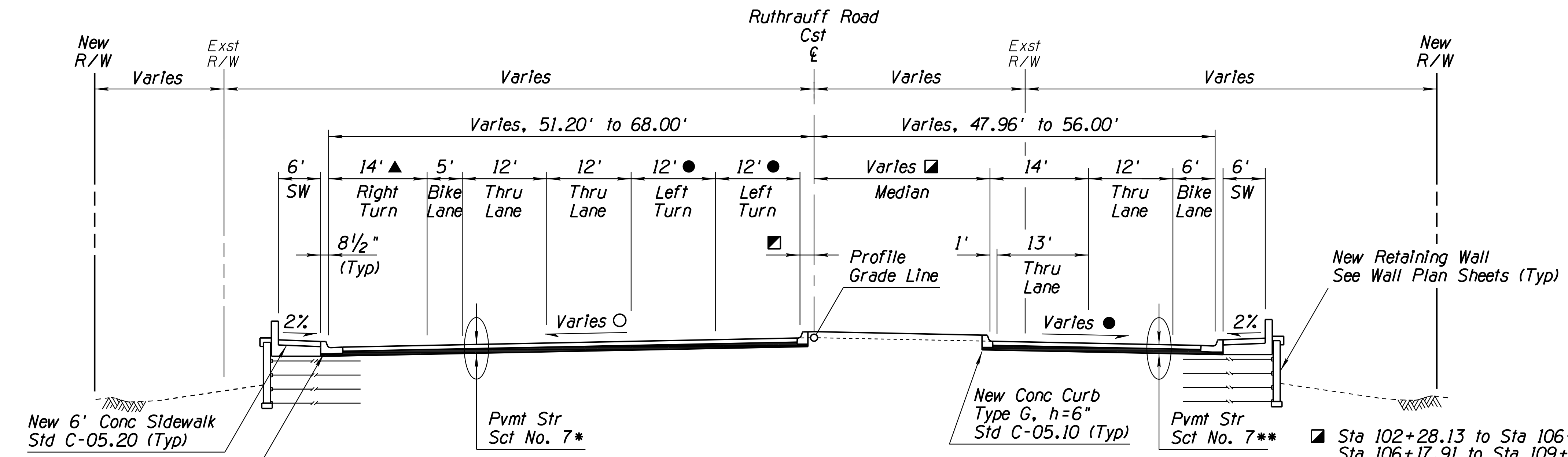
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		<b>RUTHRAUFF ROAD</b> <b>TYPICAL SECTIONS</b> <b>SHEET 2 OF 4</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC			010-D(213)S	DWG NO. G-5.02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	27	849	

010 PM 252



**TYPICAL SECTION RUTHRAUFF ROAD**  
Sta 97+50.14 to Sta 102+28.13



**TYPICAL SECTION RUTHRAUFF ROAD**

- ▲ Sta 102+28.13 to Sta 107+24.91 14'
- Sta 107+24.91 to Sta 108+14.91 14' to 2'
- Sta 102+28.13 to Sta 108+14.91 1'
- Sta 108+14.91 to Sta 109+89.91 1' to 24'
- Sta 108+14.91 to Sta 109+89.91 12' to 0'
- Sta 102+28.13 to Sta 105+55.00 0.015'/ft
- Sta 105+55.00 to Sta 106+87.00 0.015'/ft to 0.02'/ft
- Sta 106+87.00 to Sta 109+89.91 0.02'/ft
- \* Sta 102+28.13 to Sta 108+14.91 PSS #7
- Sta 108+14.91 to Sta 109+89.91 PSS #8

- Sta 102+28.13 to Sta 106+17.91 24'
- Sta 106+17.91 to Sta 109+30.18 24' to 16.19'
- Sta 102+84.53 to Sta 105+55.00 0.015'/ft
- Sta 105+55.00 to Sta 106+87.00 0.015'/ft to 0.02'/ft
- Sta 106+87.00 to Sta 109+30.18 0.02'/ft
- \*\* Sta 102+84.53 to Sta 108+14.91 PSS #7
- Sta 108+14.91 to Sta 109+30.18 PSS #8

NOTE: The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction € has been designated as Ruthrauff Road Cst € for entire length.

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD TYPICAL SECTIONS SHEET 3 OF 4	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
					DWG NO. G-5.03
					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	28	849	

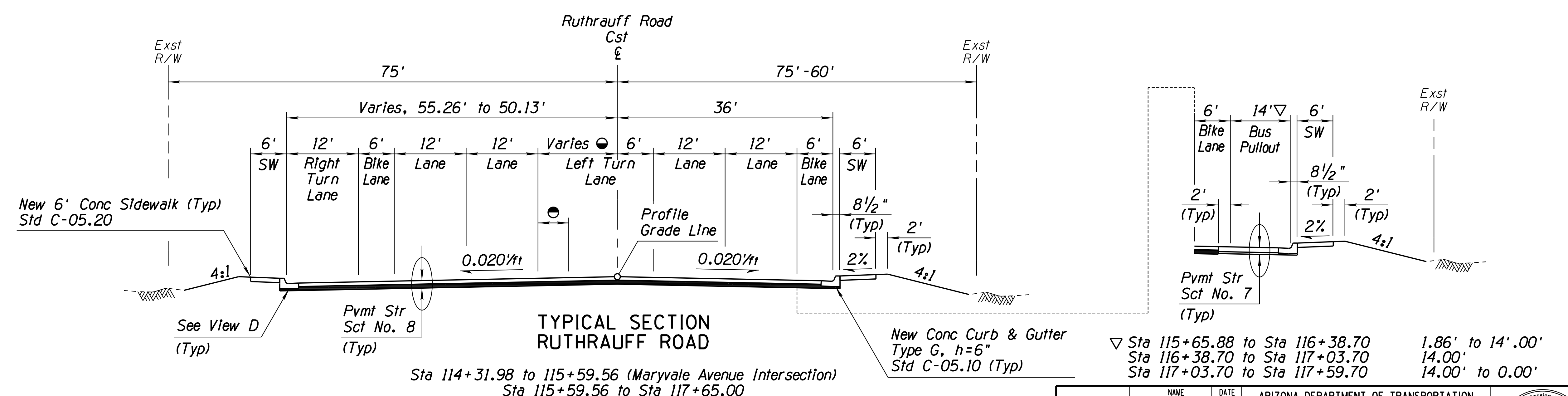
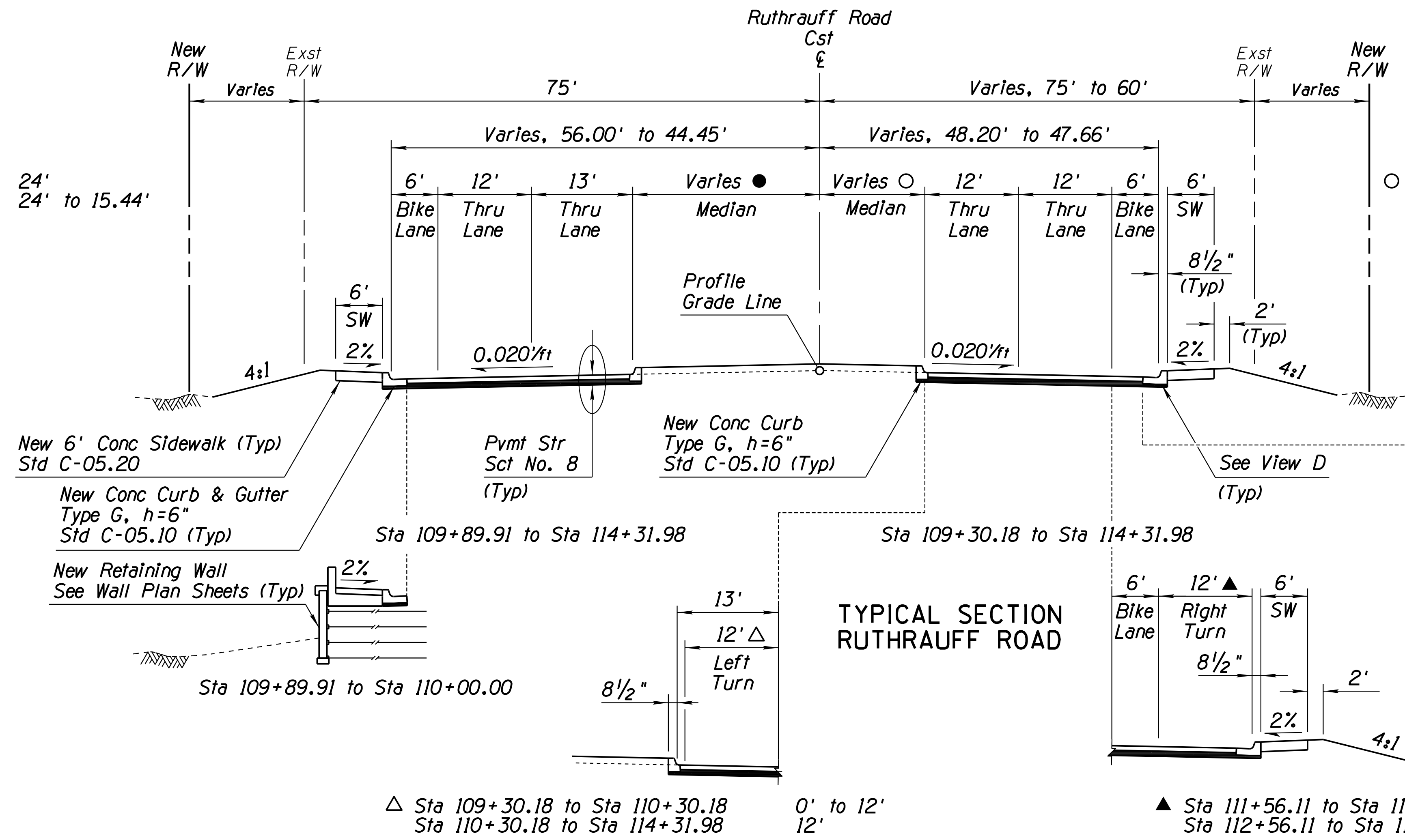
010 PM 252

● Sta 109+89.91 to Sta 110+89.60  
Sta 110+89.60 to Sta 114+31.98

24'  
24' to 15.44'

○ Sta 109+30.18 to Sta 110+30.18  
Sta 110+30.18 to Sta 114+31.98

16.19' to 2.69'  
2.69' to -7.36'

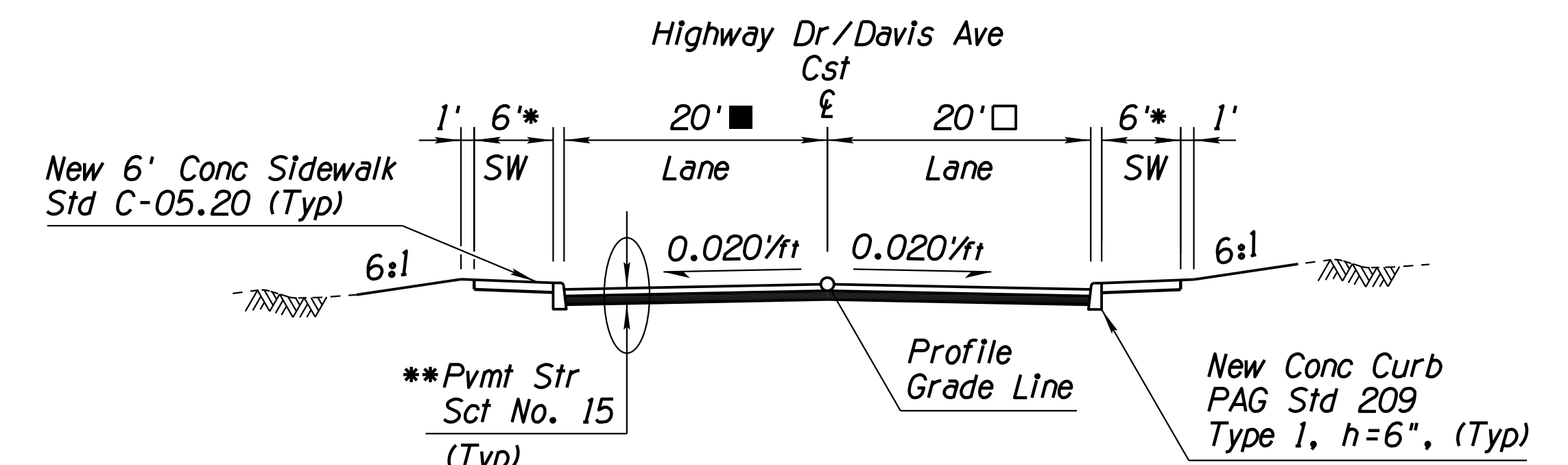


● Sta 115+59.56 to Sta 117+65.00 13.25' to 8.12'  
● Left Turn Lane Shift Taper Sta 115+59.56 to Sta 117+16.73 5.13' to 0.00'

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD TYPICAL SECTIONS SHEET 4 OF 4	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. G-5.04	
TRACS NO. H8480 OIC			010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	29	849	

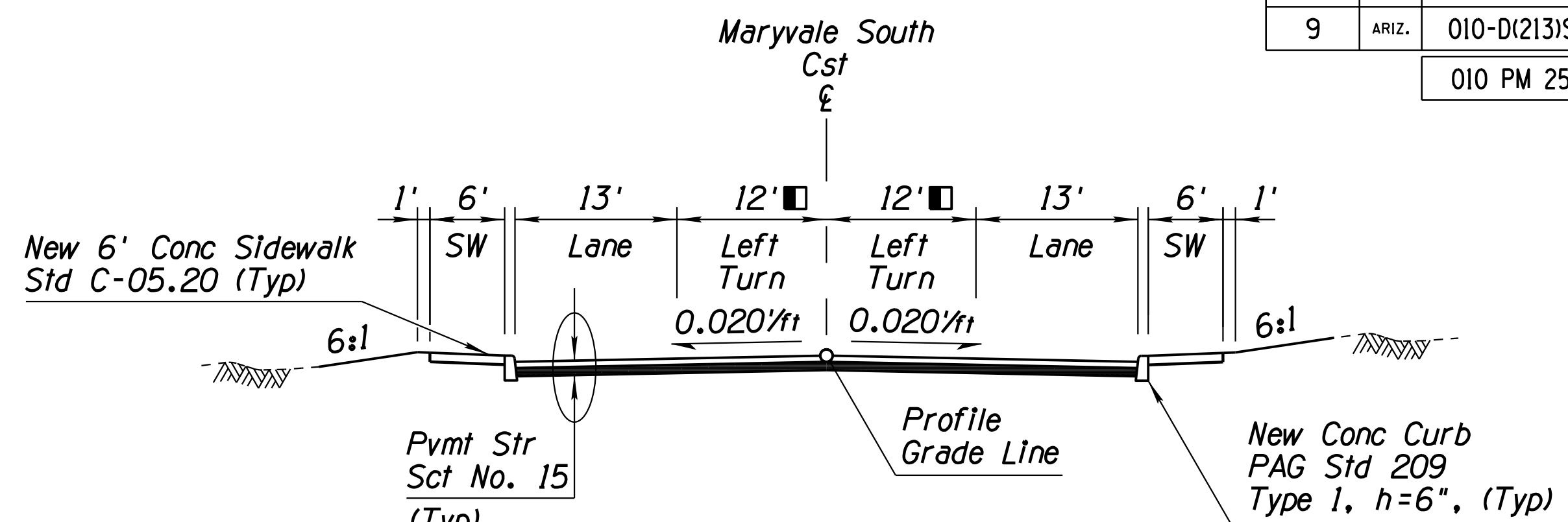
010 PM 252



TYPICAL SECTION

HIGHWAY DRIVE / DAVIS AVENUE - Sta 16+22.00 to Sta 25+75.00

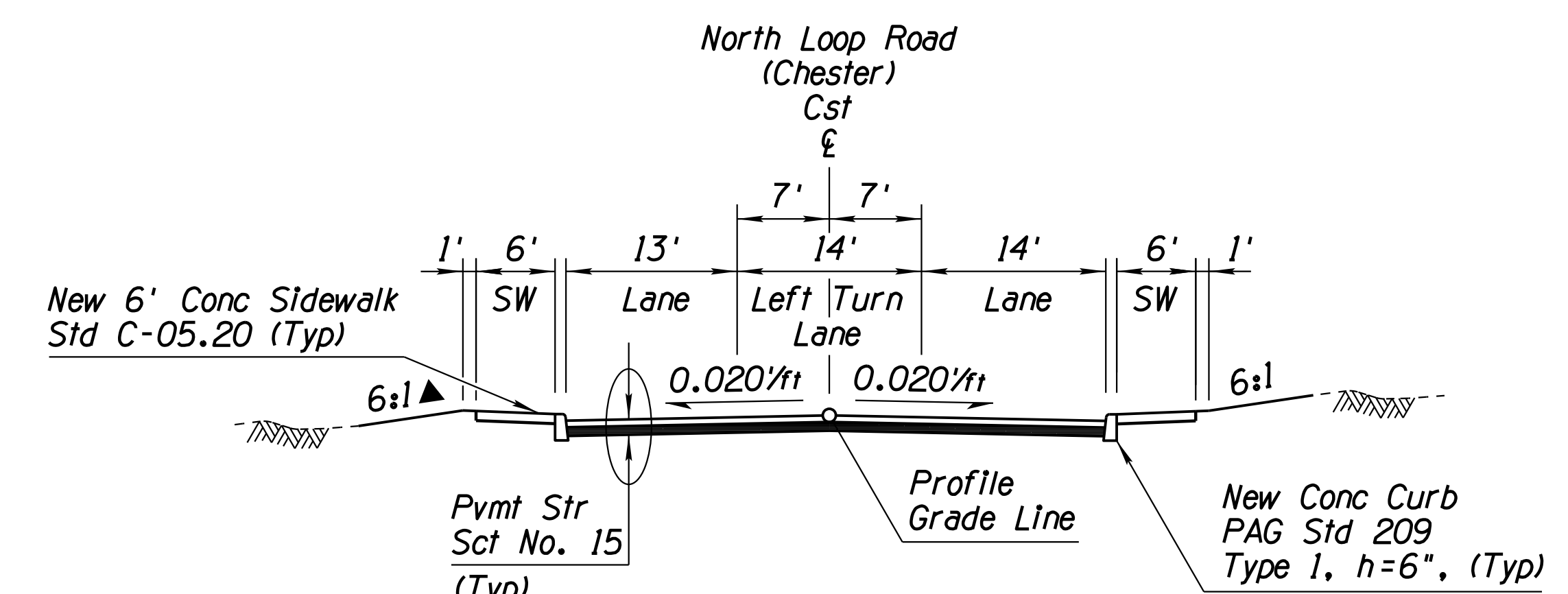
- Sta 17+82.28 to Sta 19+17.28 20' to 15'
- Sta 17+82.28 to Sta 19+17.28 20' to 15'
- Sta 19+17.28 to Sta 20+65.09 15'
- Sta 19+17.28 to Sta 20+64.91 15'
- Sta 20+65.09 to Sta 21+90.12 15' to 20'
- Sta 20+64.91 to Sta 21+89.89 15' to 20'
- \*\* Sta 16+22.00 to Sta 16+43.73 PSS #16
- \* Sta 19+07.28 to Sta 19+17.28 6' to 5'
- Sta 19+34.78 to Sta 20+59.25 PSS #14
- Sta 19+17.28 to Sta 22+02.84 5'
- Sta 22+05.52 to Sta 25+75.00 PSS #16



TYPICAL SECTION

MARYVALE SOUTH - Sta 20+00.00 to Sta 23+12.35

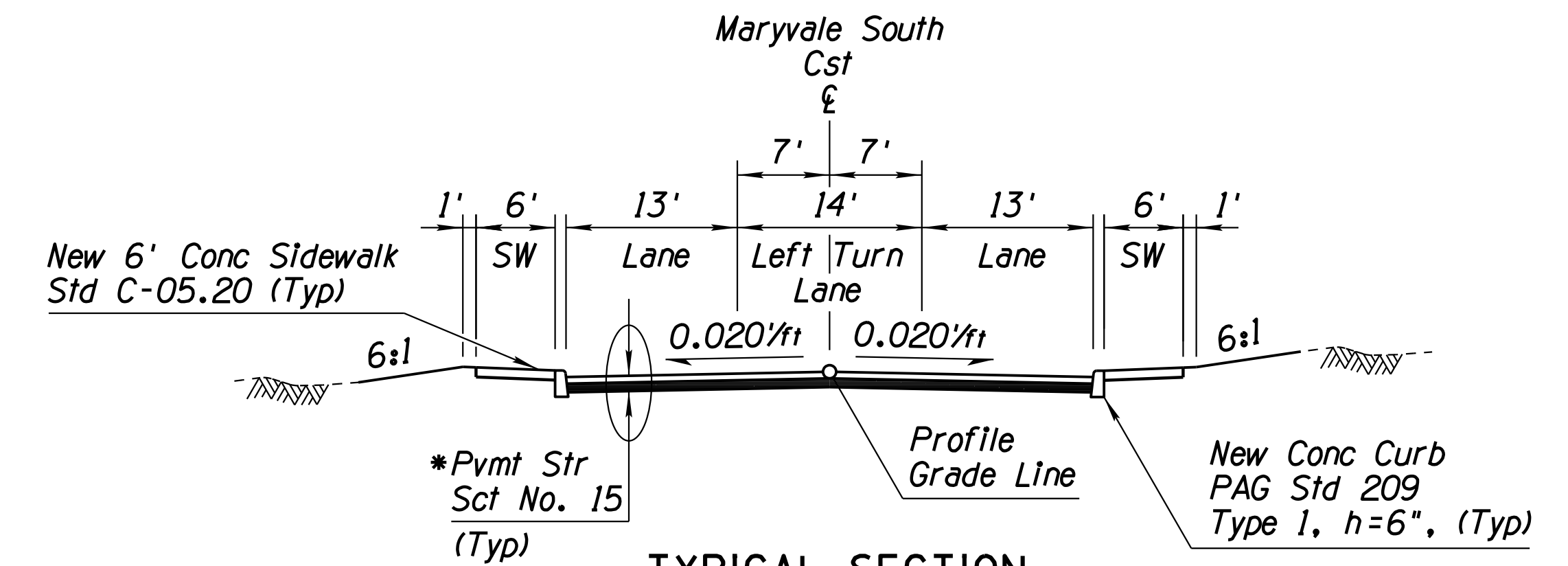
- Sta 22+22.35 to Sta 23+12.35 12' to 7'



TYPICAL SECTION

NORTH LOOP ROAD - Sta 11+41.27 to Sta 15+11.81

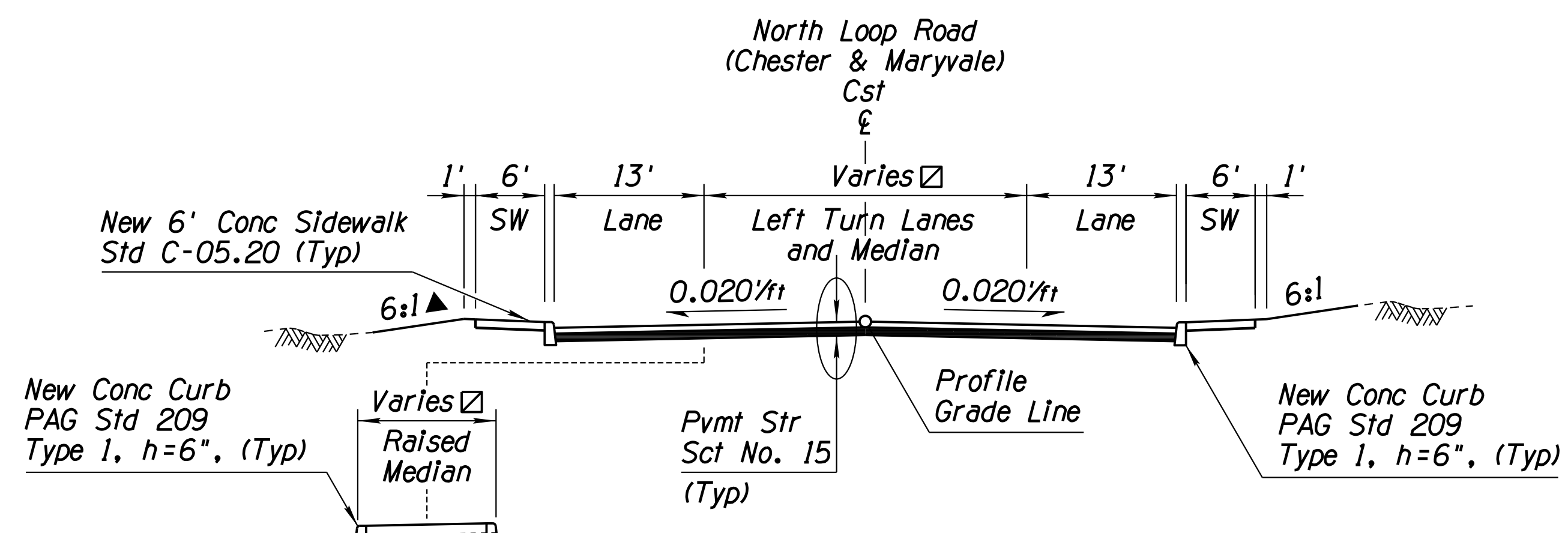
- ▲ Sta 12+77.00 to Sta 12+87.00 6:1 to 4:1
- Sta 12+87.00 to Sta 13+53.00 4:1
- Sta 13+53.00 to Sta 13+63.00 4:1 to 6:1



TYPICAL SECTION

MARYVALE SOUTH - Sta 23+12.35 to Sta 24+47.40

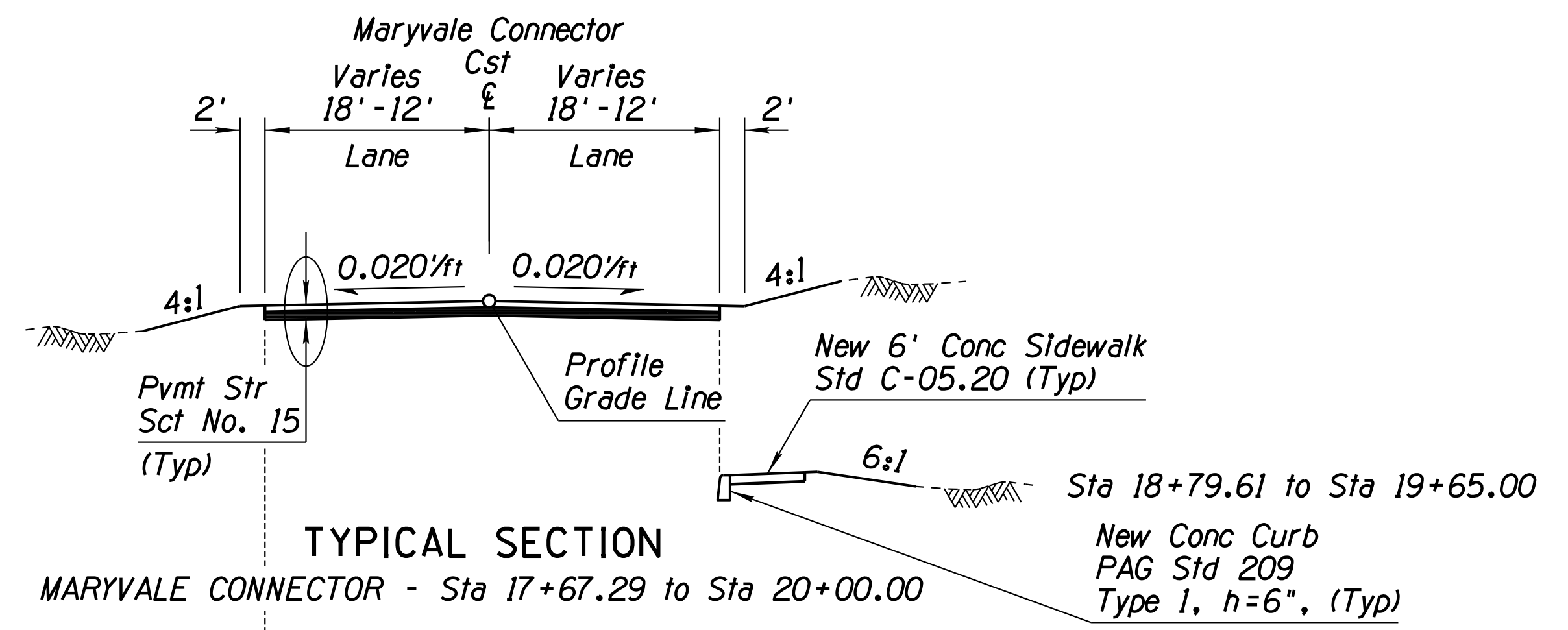
- \* Sta 24+25.08 to Sta 24+47.40 PSS #16



TYPICAL SECTION

NORTH LOOP ROAD - Sta 15+11.81 to Sta 19+54.40

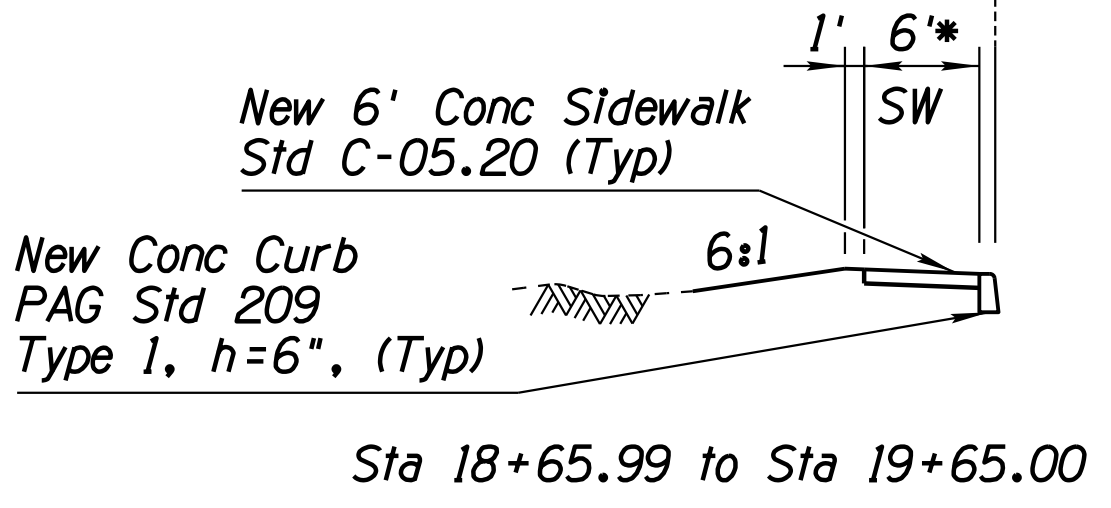
- ▲ Sta 14+60.00 to Sta 14+70.00 6:1 to 4:1
- Sta 14+70.00 to Sta 15+17.00 4:1
- Sta 15+17.00 to Sta 15+27.00 4:1 to 6:1
- ☑ See Staking and Pavement Marking Sheets for additional control information.



TYPICAL SECTION

MARYVALE CONNECTOR - Sta 17+67.29 to Sta 20+00.00

Sta 18+79.61 to Sta 19+65.00  
New Conc Curb PAG Std 209 Type 1, h=6", (Typ)

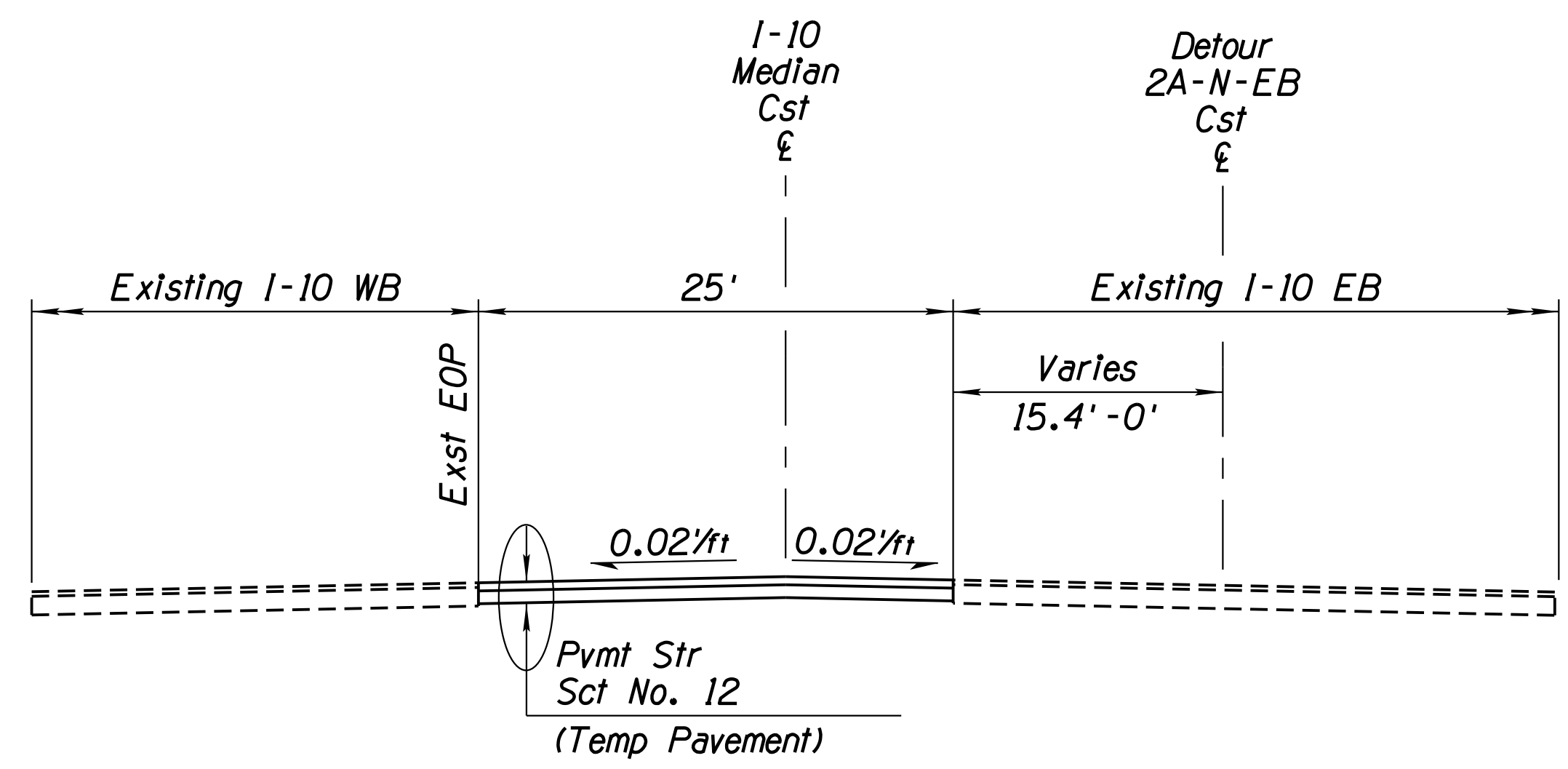


Sta 18+65.99 to Sta 19+65.00

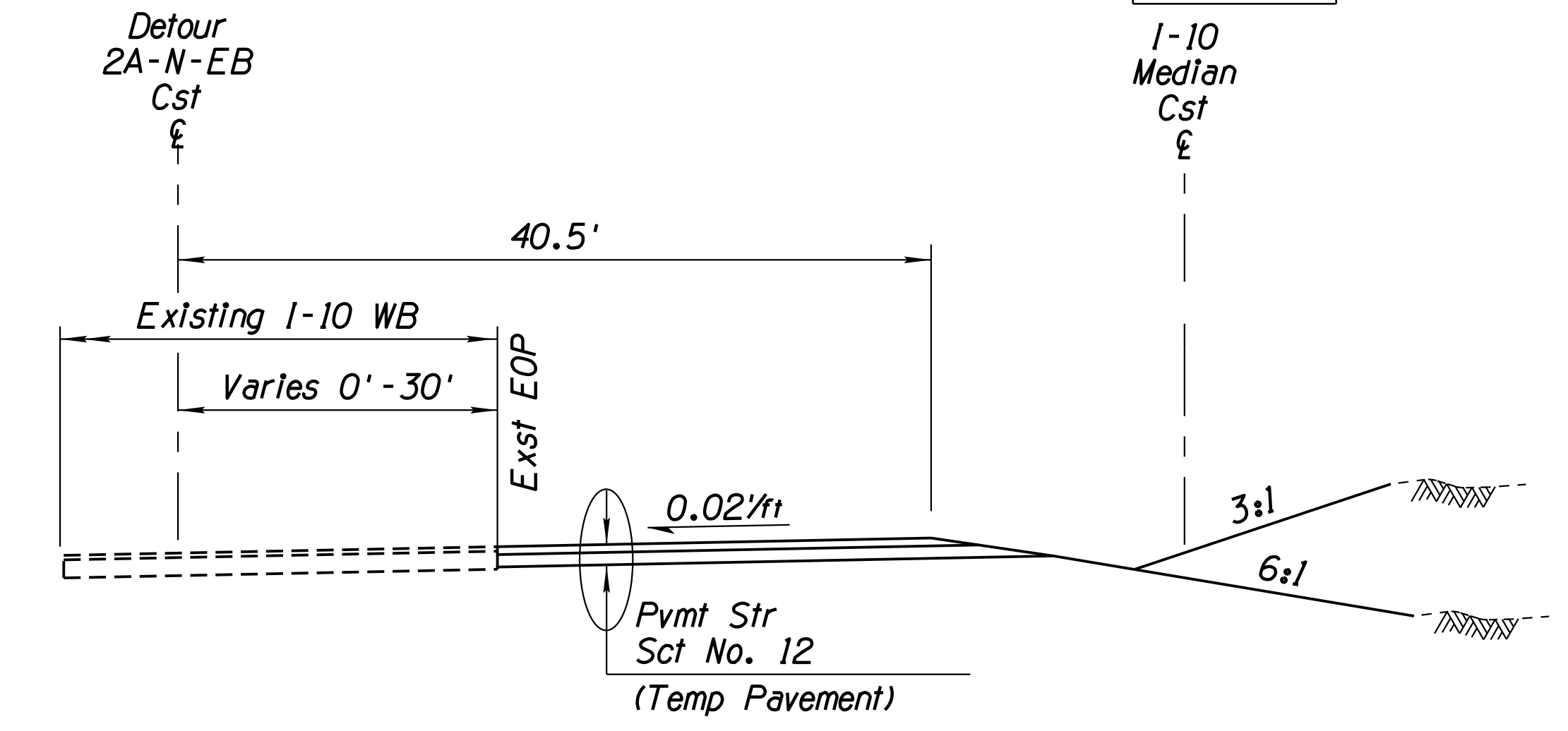
DESIGN	A. HATHCOCK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	3-19		
CHECKED	A. HATHCOCK	3-19		
<b>Kimley-Horn</b> © 2019 KIMLEY-HORN AND ASSOCIATES, INC.			TYPICAL SECTIONS LOCAL STREETS AT RUTHRAUFF ROAD	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO. H8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	30	849	

010 PM 252

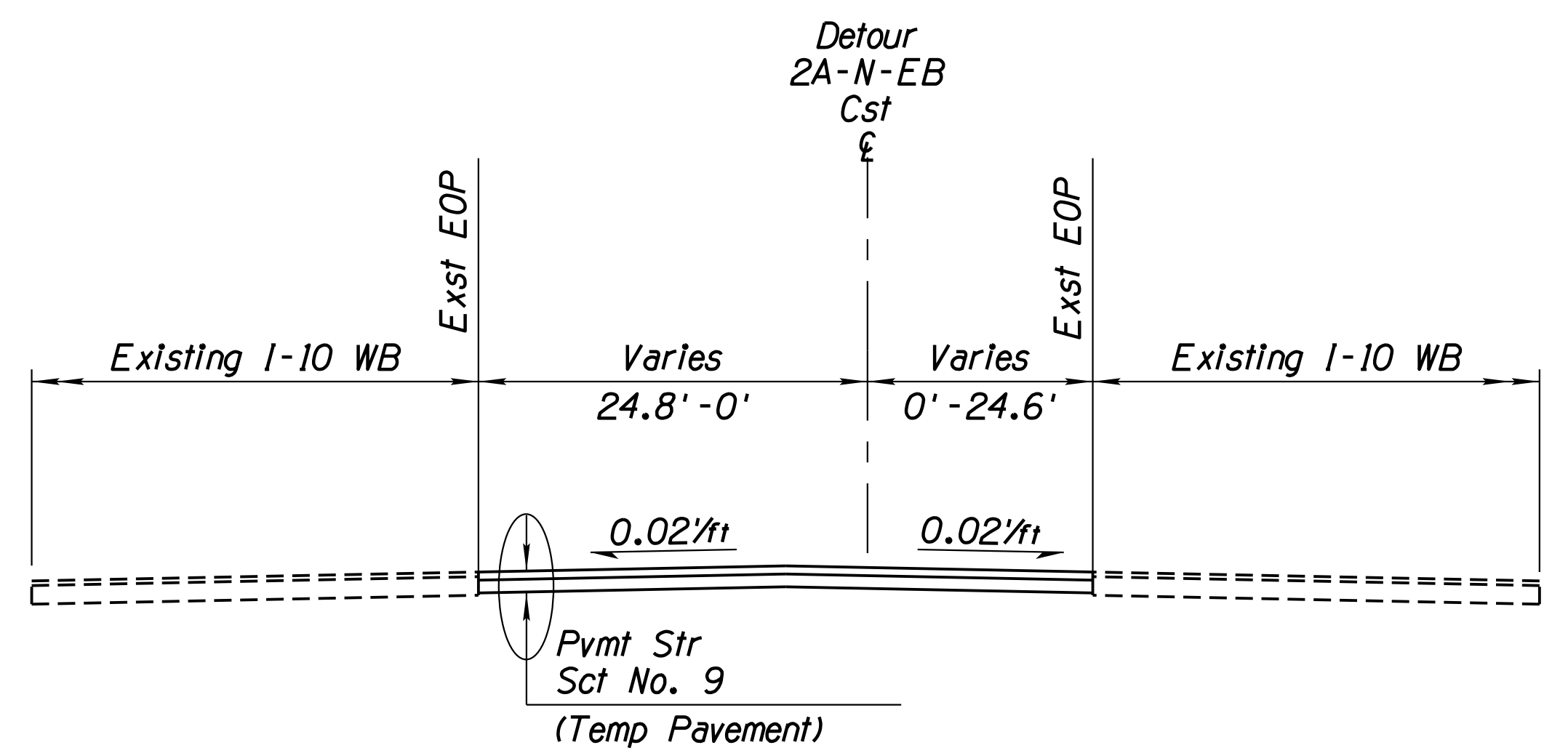


**TYPICAL SECTION - DETOUR (2A-N-EB)**  
Sta 207+94.56 to Sta 210+78.99 Detour 2A-N-EB Cst €



**TYPICAL SECTION - DETOUR (2A-N-EB)**  
Sta 216+29.07 to Sta 233+69.02 Detour 2A-N-EB Cst €

- \* *Varies 40.5' to 32.3' Sta 227+65.75 to Sta 232+51.73 2A-N-EB Cst €*
- \* *32.3' Sta 232+51.73 to Sta 233+69.02 2A-N-EB Cst €*



**TYPICAL SECTION - DETOUR (2A-N-EB)**  
Sta 210+78.99 to Sta 214+23.51 Detour 2A-N-EB Cst €

**Note:**

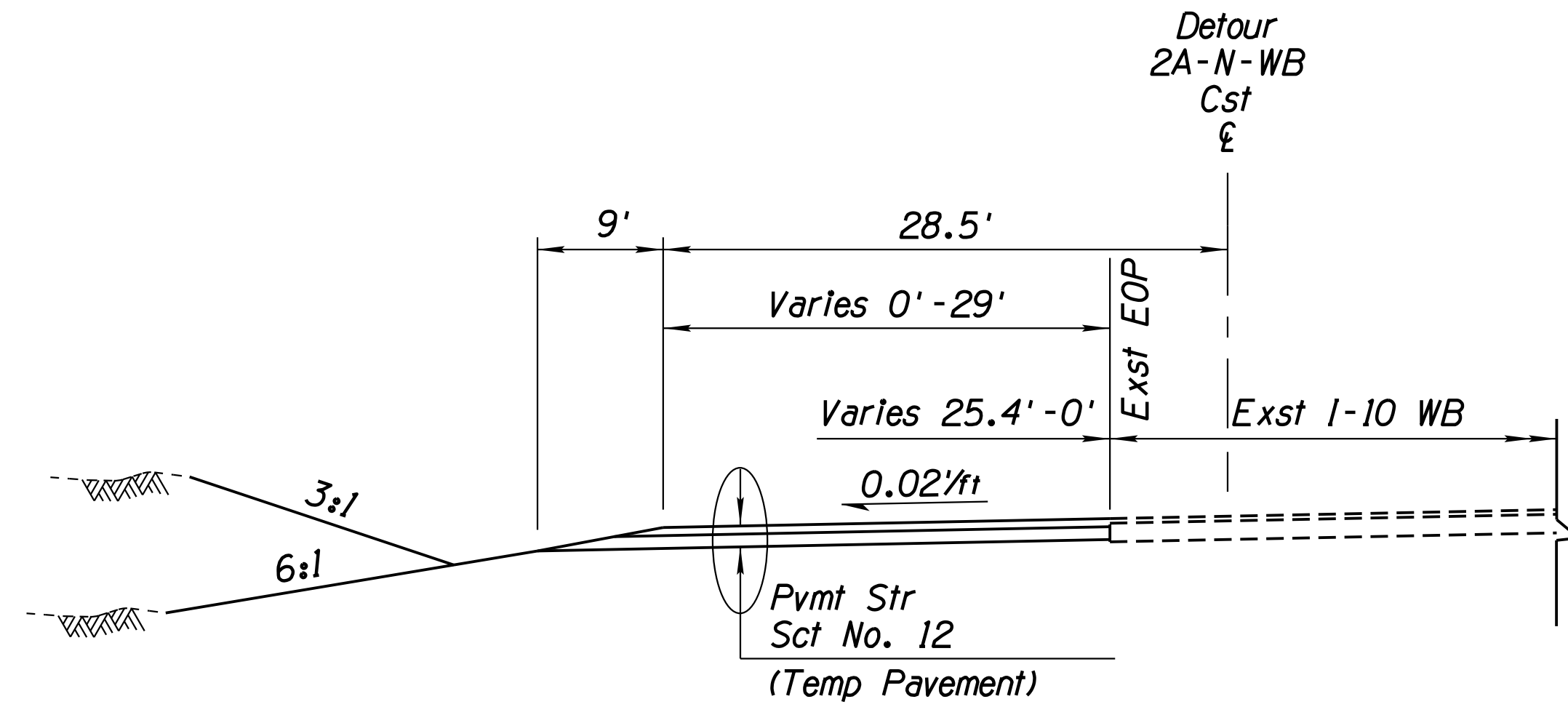
*Detour Removal is paid under Item Number 2020152.*

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS 2A-N-EB</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-5.06 OF

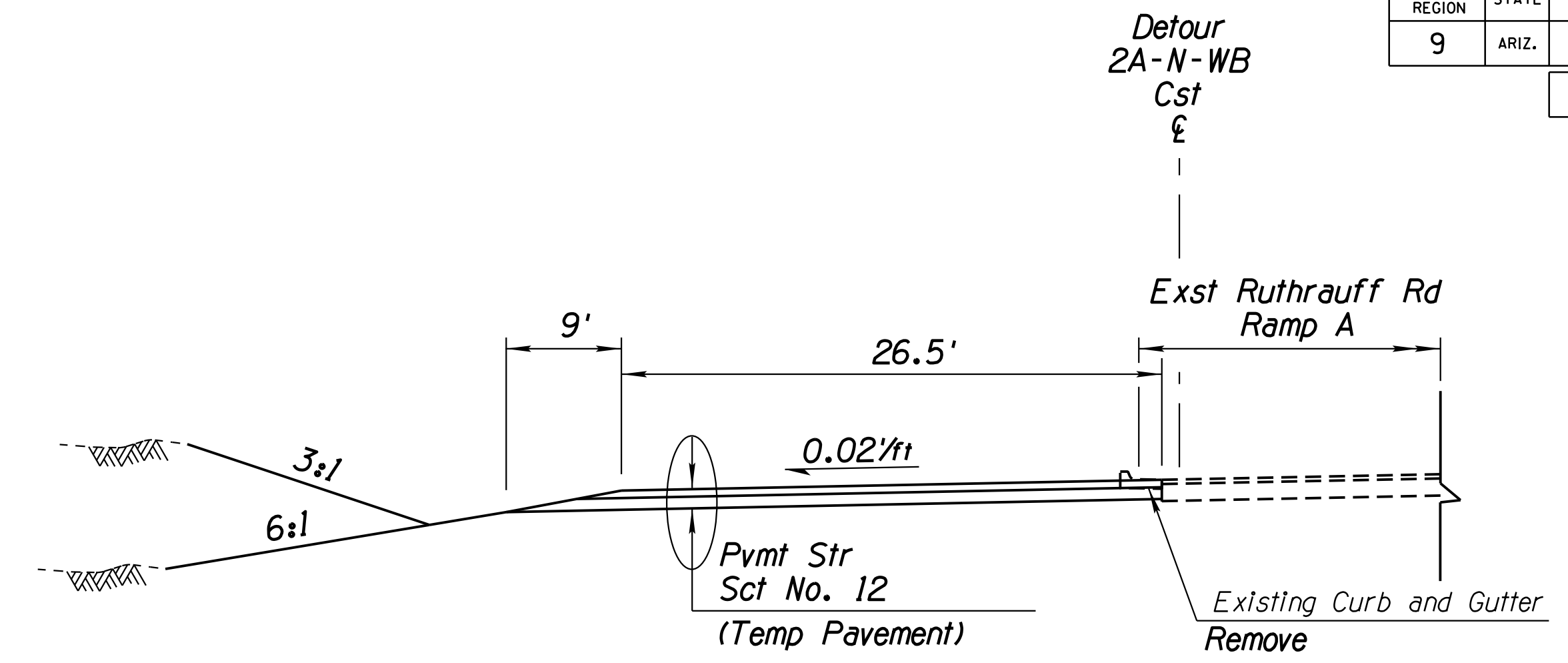
REVISIONS- LOCATION- DATE- SURVEY NO. FINISHED PLANS- DATE- SURVEY NO. FINISHED PLANS- DATE- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	31	849	

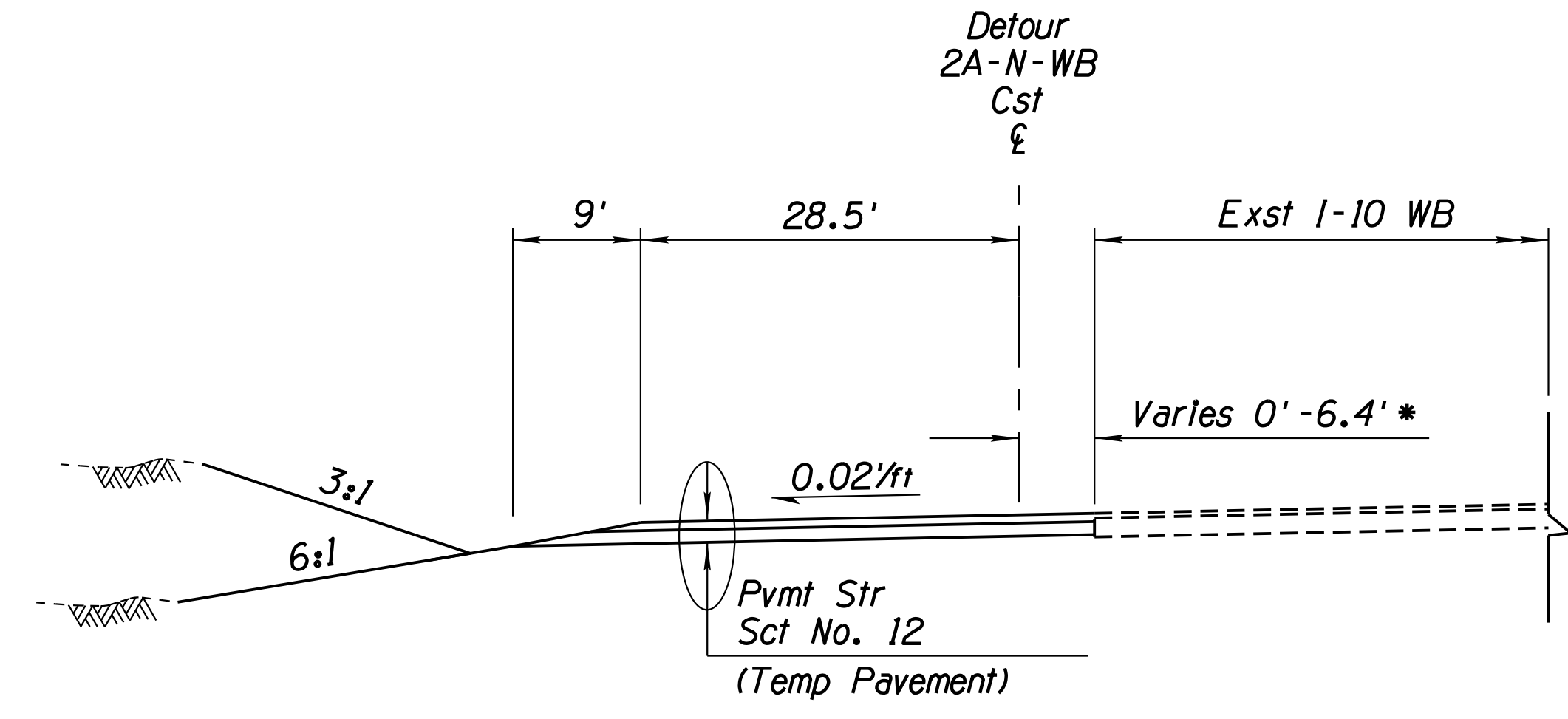
010 PM 252



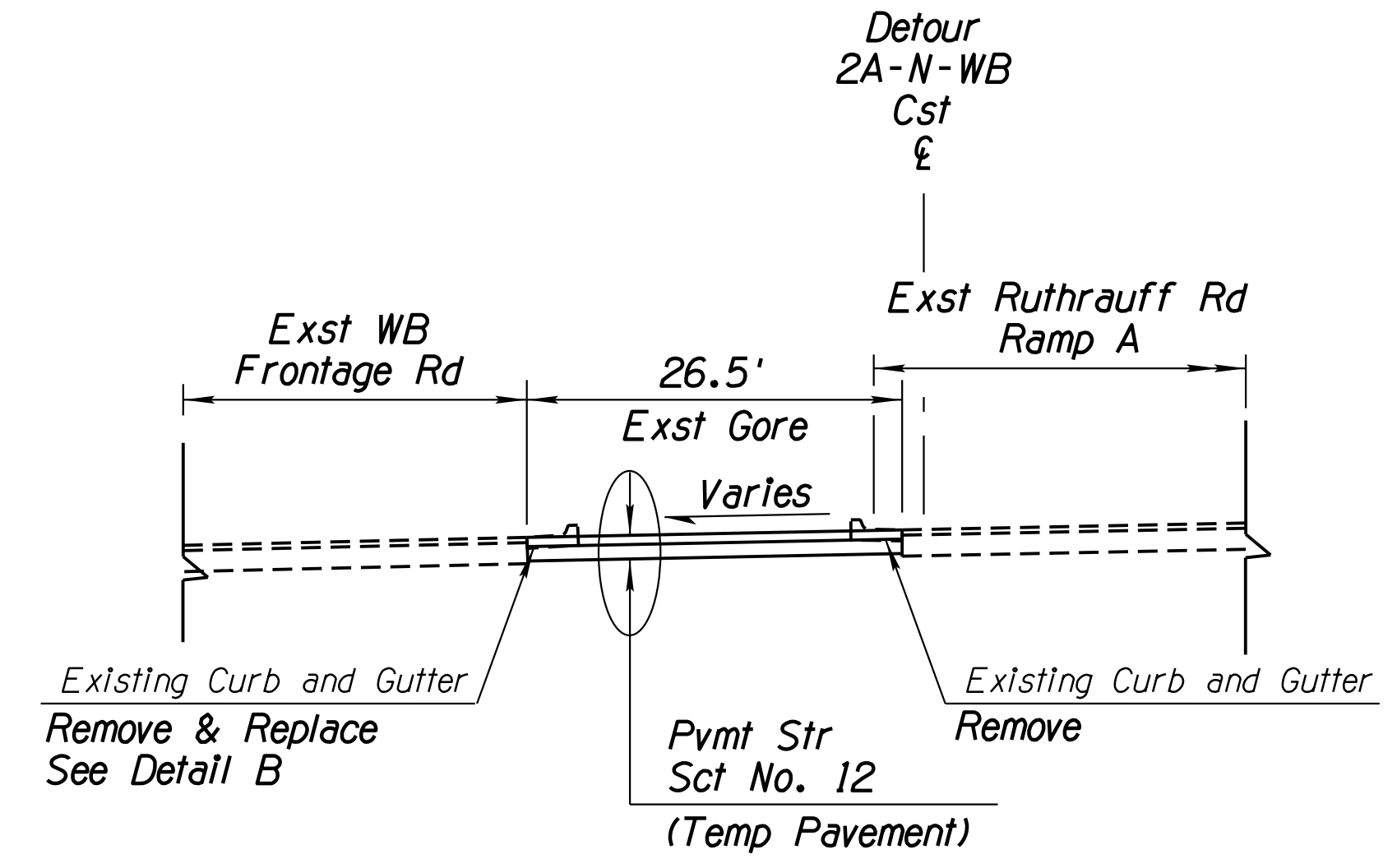
**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 203+38.01 to Sta 210+86.08 2A-N-WB Cst



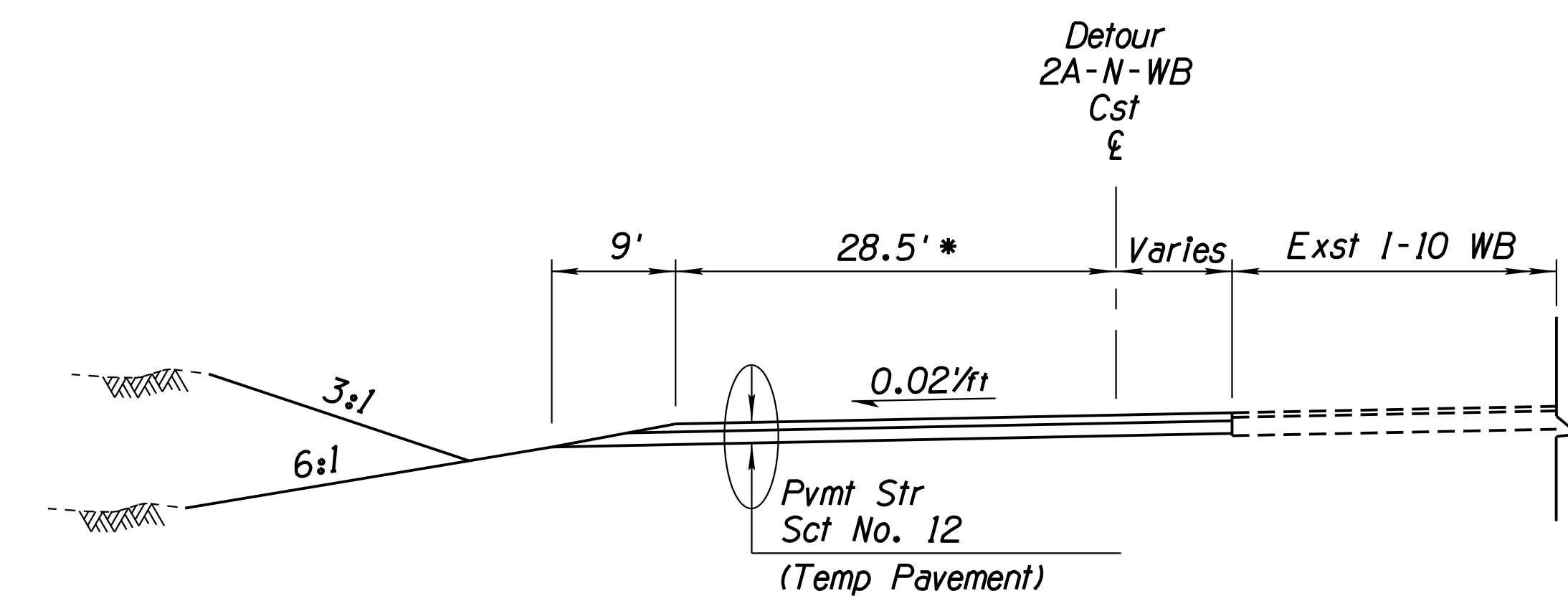
**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 226+69.07 to Sta 233+94.67 2A-N-WB Cst



**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 210+86.08 to Sta 218+96.44 2A-N-WB Cst  
\* Varies 6.4' - 0' Sta 213+85.89 to Sta 218+96.44 2A-N-WB Cst



**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 233+94.67 to Sta 236+23.19 2A-N-WB Cst



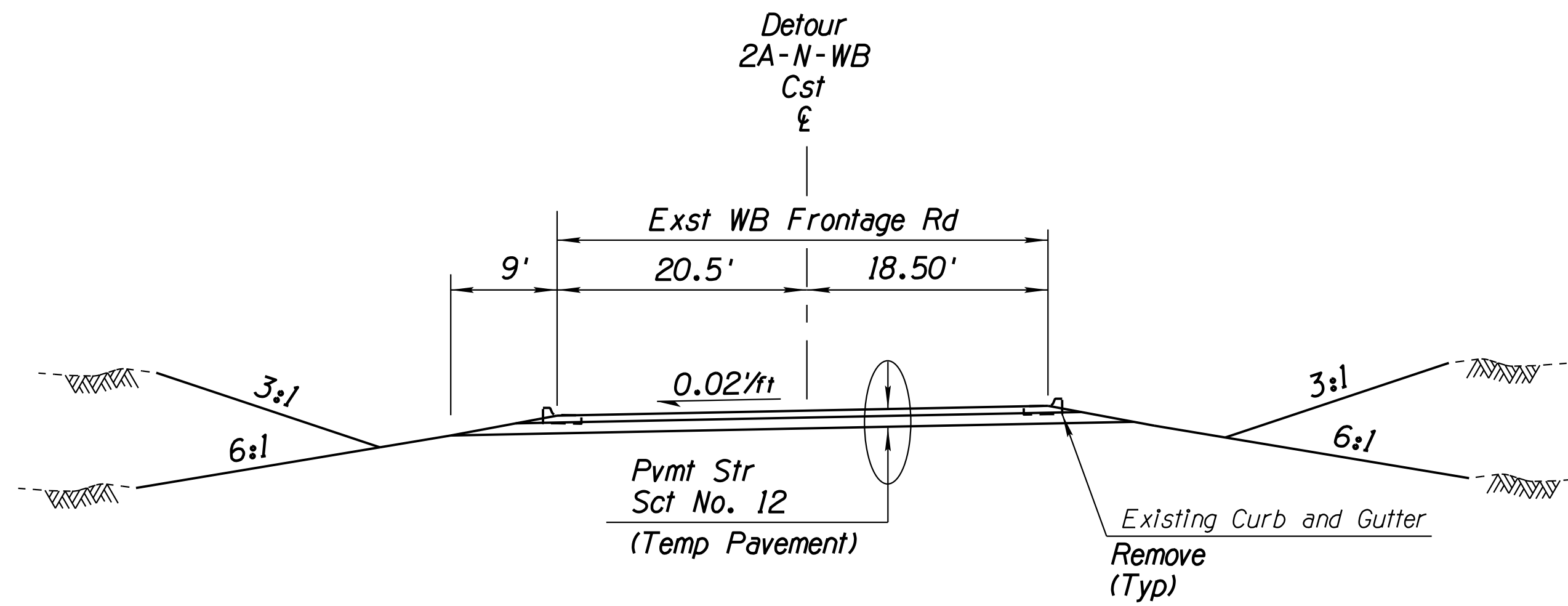
**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 218+96.44 to Sta 226+69.07 2A-N-WB Cst  
\* 26.5' Sta 220+85.64 to Sta 226+69.07 2A-N-WB Cst

**Note:**  
Detour Removal is paid under Item Number 2020152.

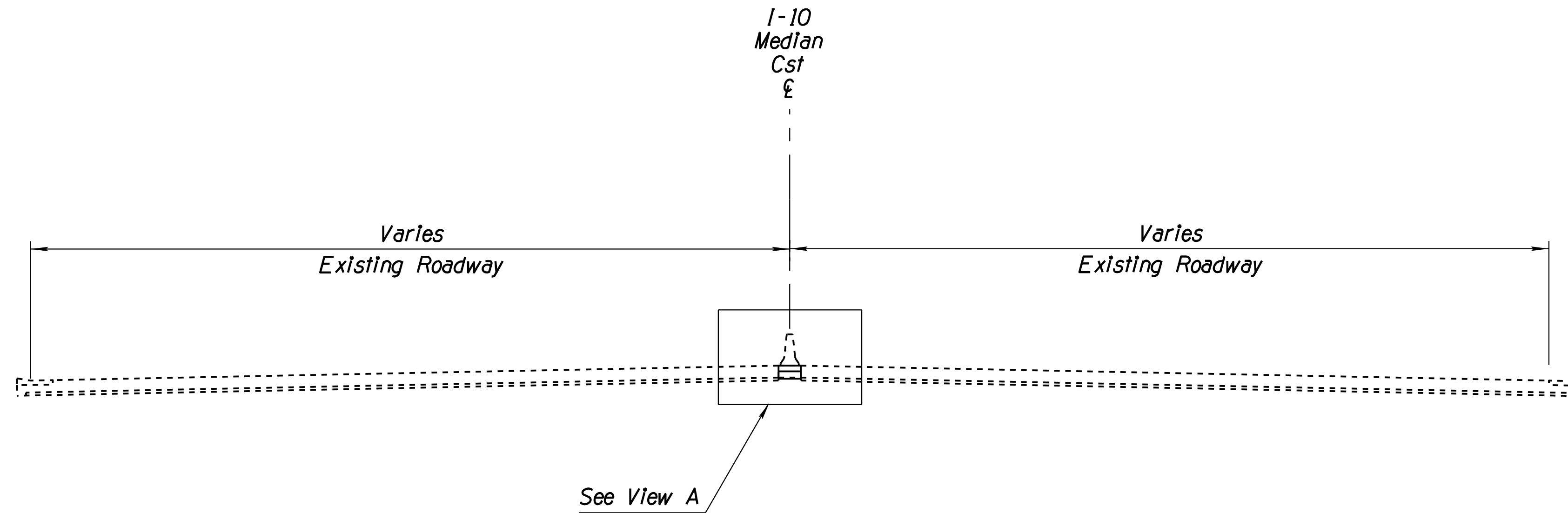
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS DETOUR 2A-N-WB</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. G-5.07 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	32	849	

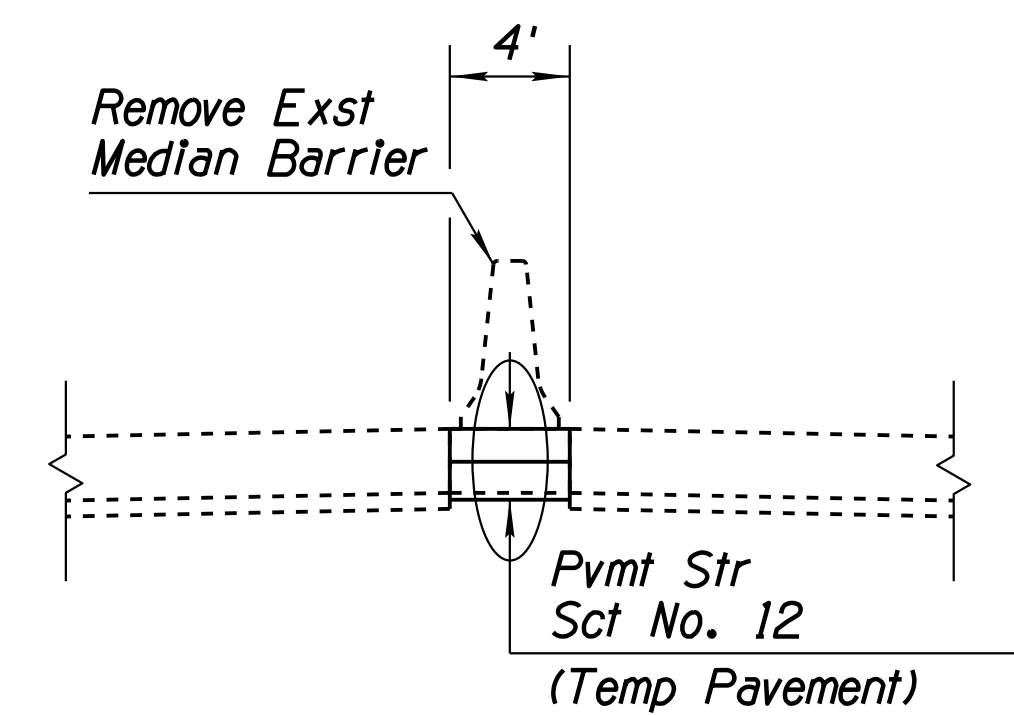
010 PM 252



**TYPICAL SECTION - DETOUR (2A-N-WB)**  
Sta 242+42.88 to Sta 246+47.13 2A-N-WB Cst



**TYPICAL SECTION - DETOUR (2A-S EB & 3A-S-WB)**  
Sta 5242+87.85 to Sta 5253+64.00 1-10 Med Cst



**VIEW A**

**Notes:**

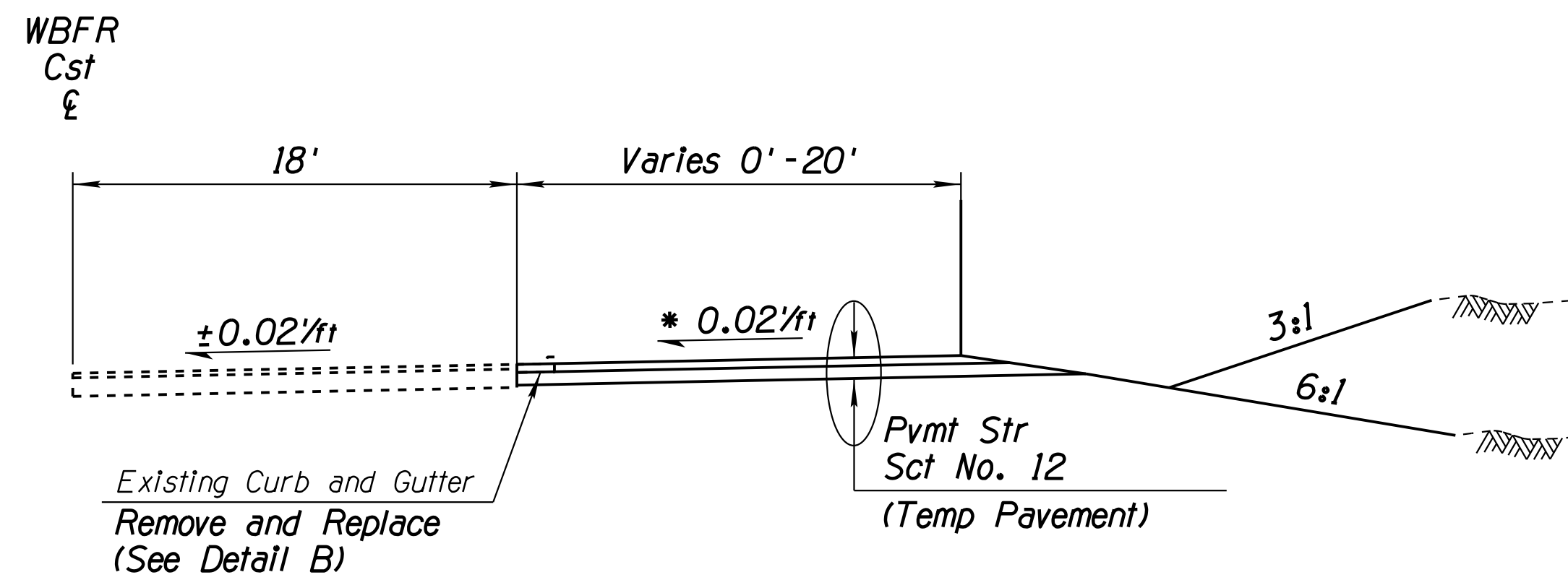
Detour Removal is paid under Item Number 2020152.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS</b> <b>DETOUR 2A-S-EB &amp; 3A-S-WB</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-5.08 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	33	849	

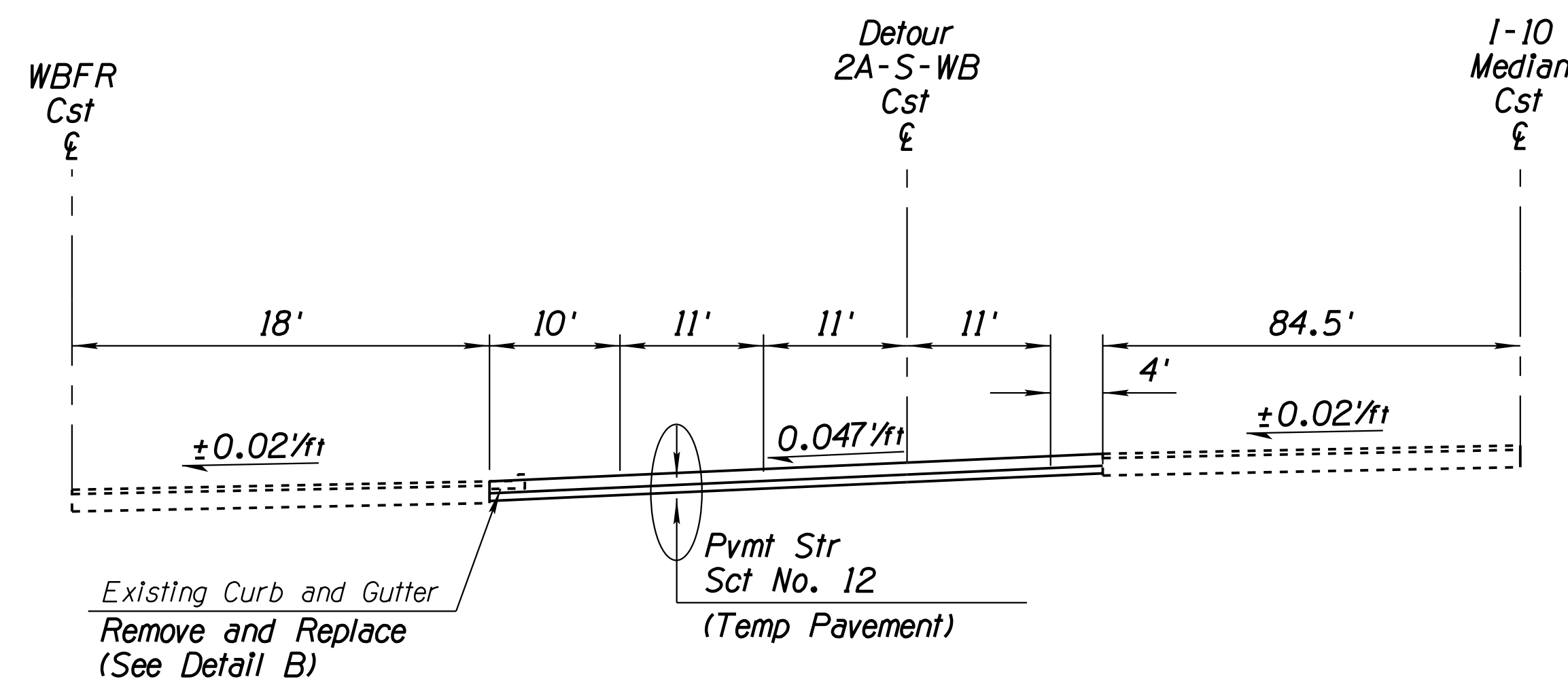
010 PM 252



**TYPICAL SECTION - DETOUR (2A-S-WB)**

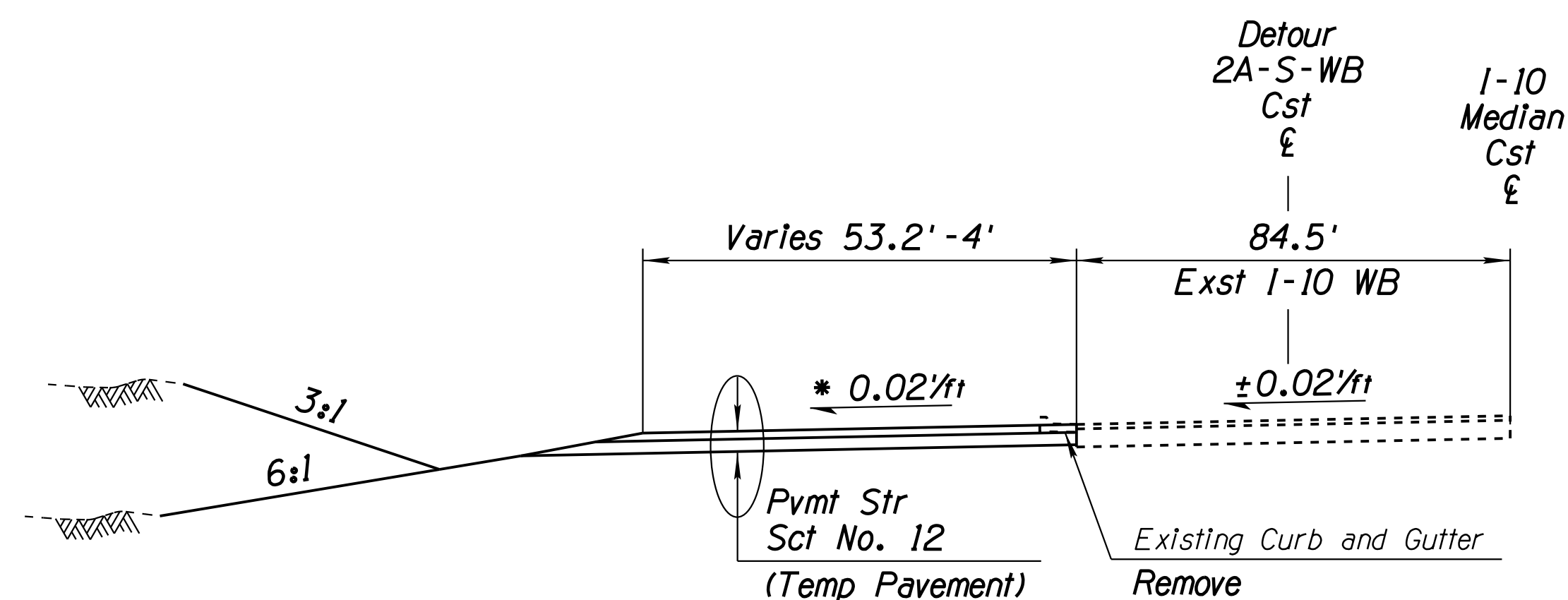
Sta 2018+24.80 to Sta 2027+99.40 WBFR Cst £

\* Varies 2% to 4.7% Sta 2226+58.89 to Sta 2027+99.40



**TYPICAL SECTION - DETOUR (2A-S-WB)**

Sta 5245+21.45 to Sta 5245+42.11 I-10 Med Cst £



**TYPICAL SECTION - DETOUR (2A-S-WB)**

Sta 5245+42.11 to Sta 5251+55.21 I-10 Med Cst £

\* Varies -4.7% to -2.0% Sta 5245+42.11 to Sta 5246+82.60

Note:

Detour Removal is paid under Item Number 2020152.

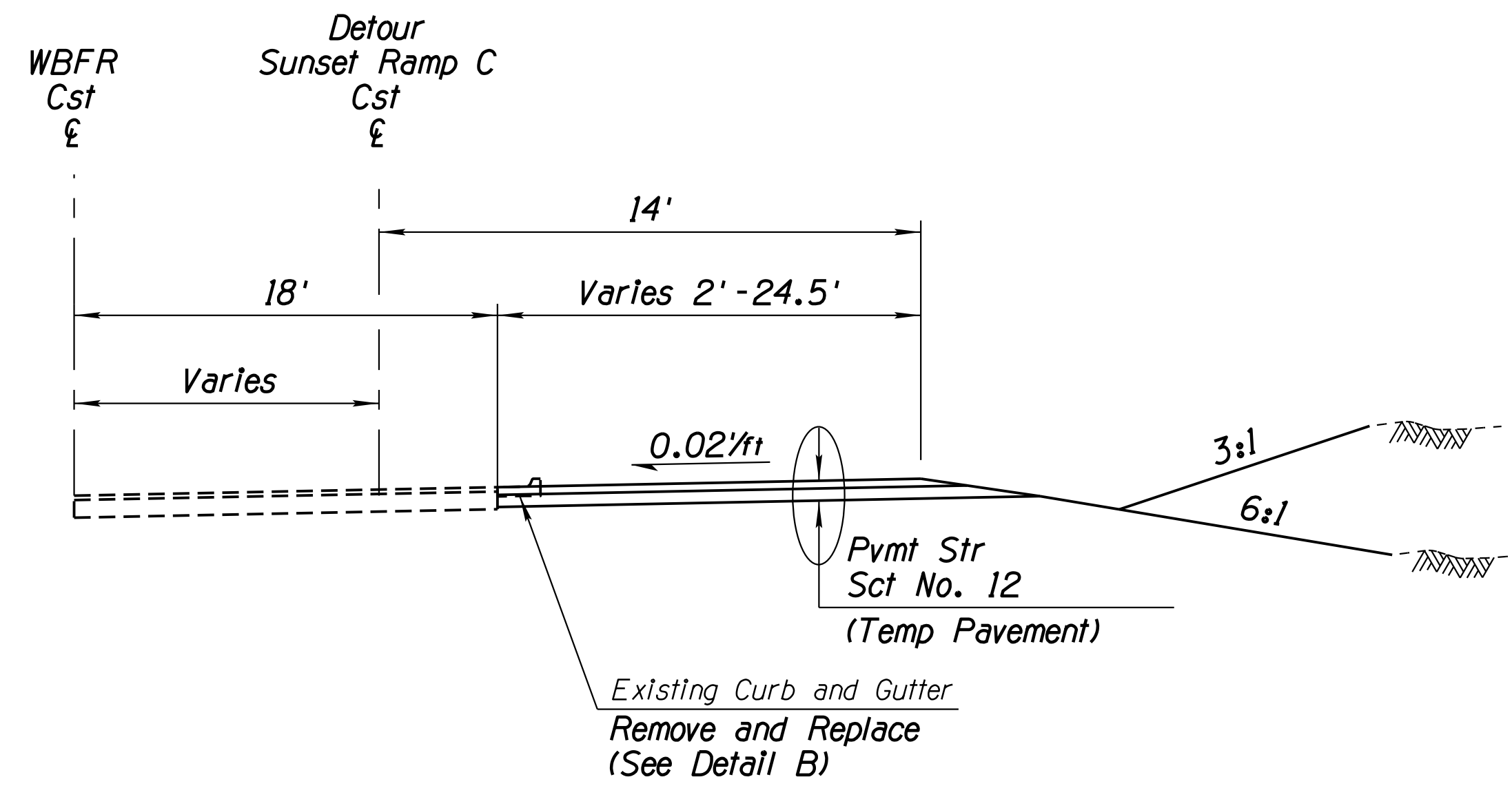
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS          DETOUR 2A-S-WB</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

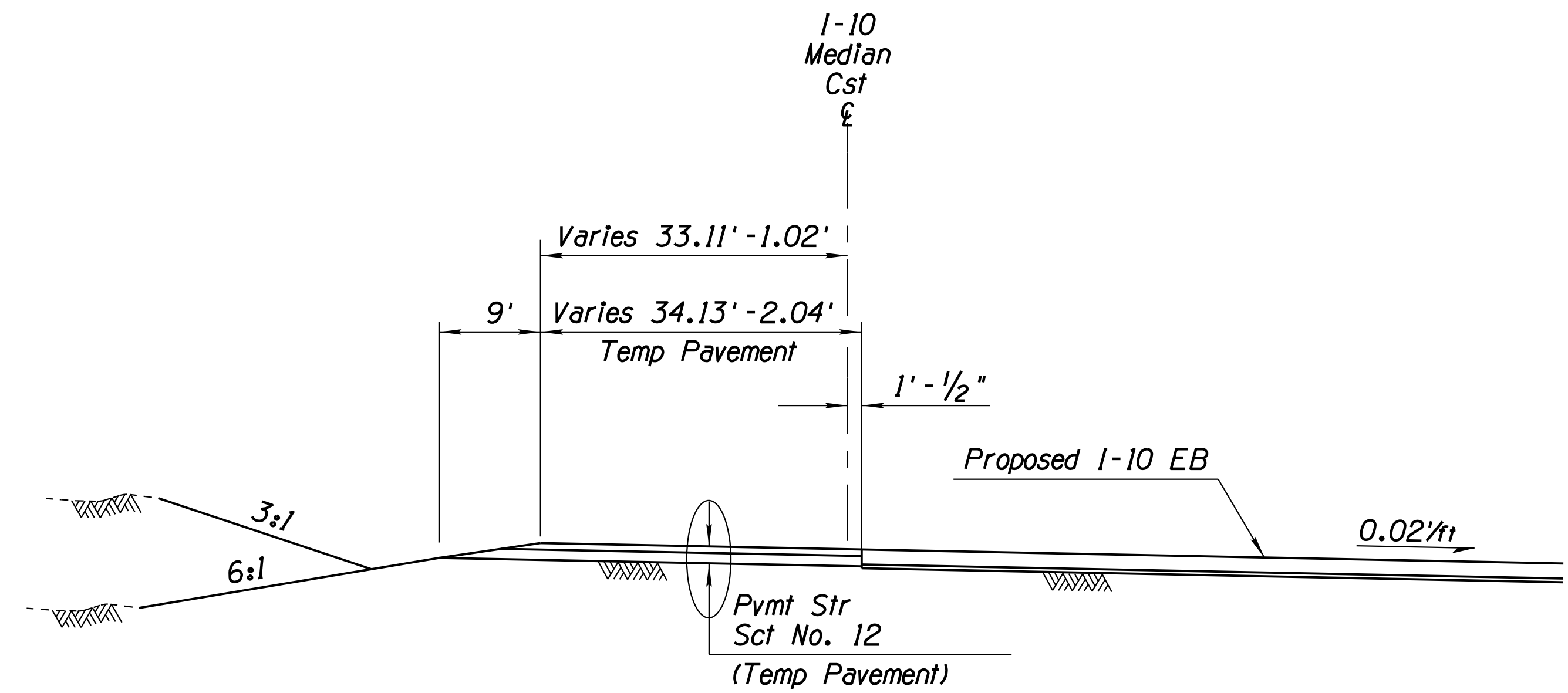


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	34	849	

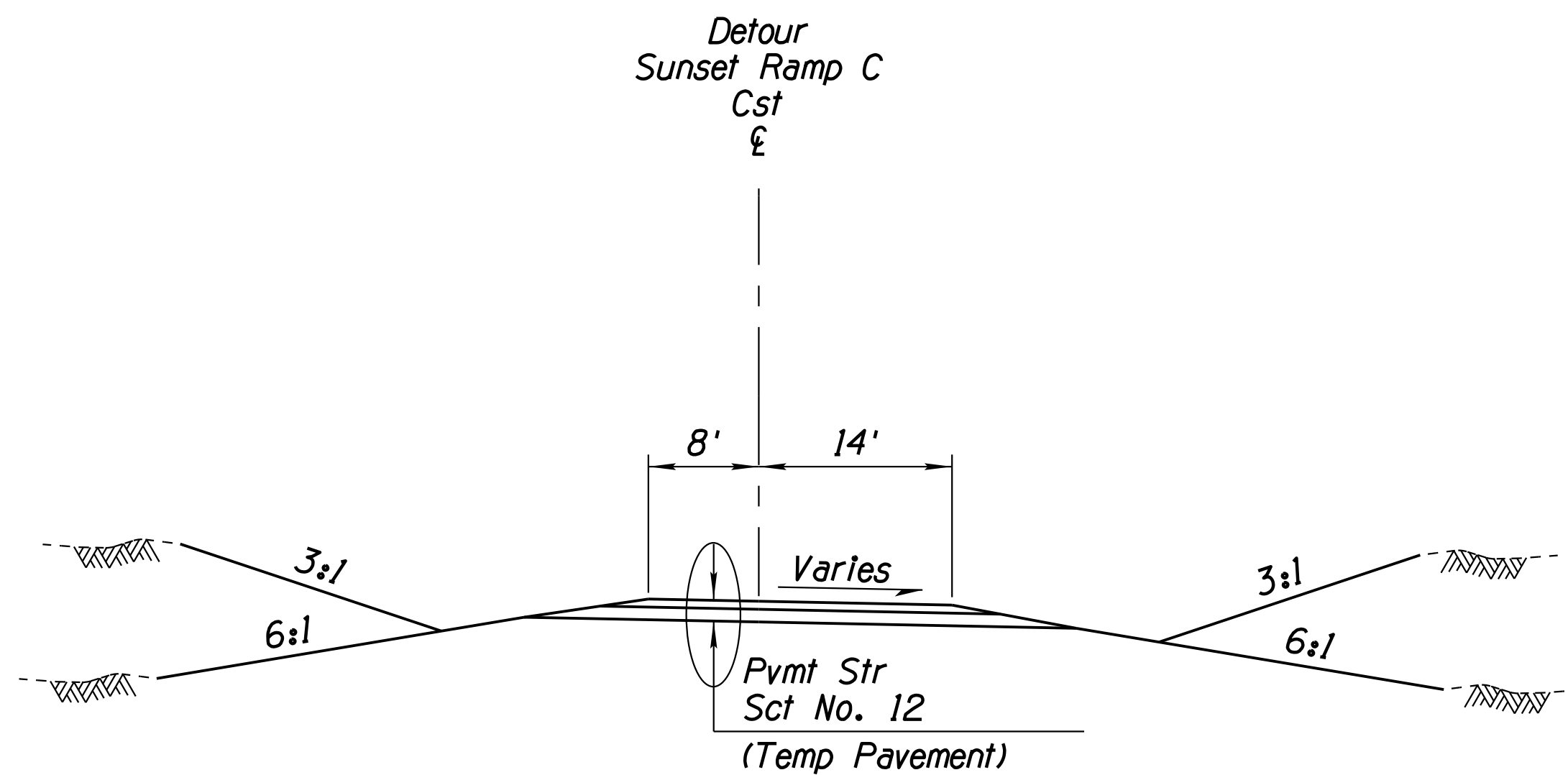
010 PM 252



**TYPICAL SECTION - DETOUR (3B-SUN-C)**  
Sta 1977+71.99 to Sta 1980+26.84 WBFR Cst



**TYPICAL SECTION - DETOUR (3B-SUN-C)**  
Sta 5207+02.79 to Sta 5211+15.16 1-10 Med Cst



**TYPICAL SECTION - DETOUR (3B-SUN-C)**  
Sta 14+66.55 to Sta 24+18.81 3B-SUN-C Cst

**Notes:**

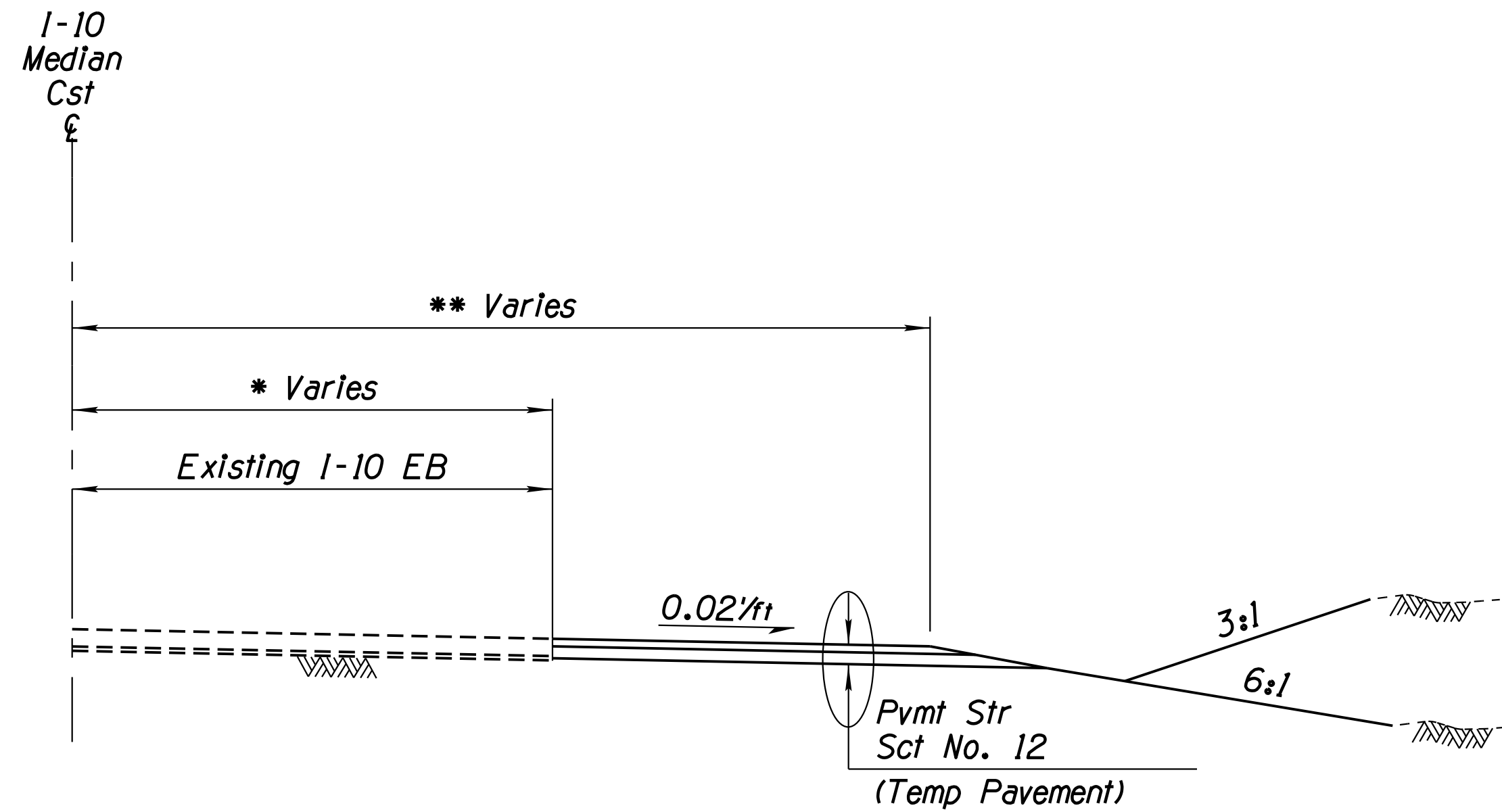
Detour Removal is paid under Item Number 2020152.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		TYPICAL SECTIONS DETOUR 3B-SUN-C	
1-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. G-5.10	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	35	849	

010 PM 252



**TYPICAL SECTION - I-10**

Sta 5176+04.56 to Sta 5195+10.42 I-10 Med Cst &

- \* Varies 75.2' to 77.4' Sta 5176+04.56 to 5181+00.00 I-10 Med Cst &
- \* Varies 75.4' to 80.5' Sta 5181+00.00 to 5192+11.26 I-10 Med Cst &
- \* Varies 80.5' to 97' Sta 5192+11.26 to 5195+10.42 I-10 Med Cst &
- \*\* Varies 75.4' to 97' Sta 5176+04.56 to 5185+87.60 I-10 Med Cst &
- \*\* 97' Sta 5185+87.60 to Sta 5195+10.42 I-10 Med Cst &

**Note:**

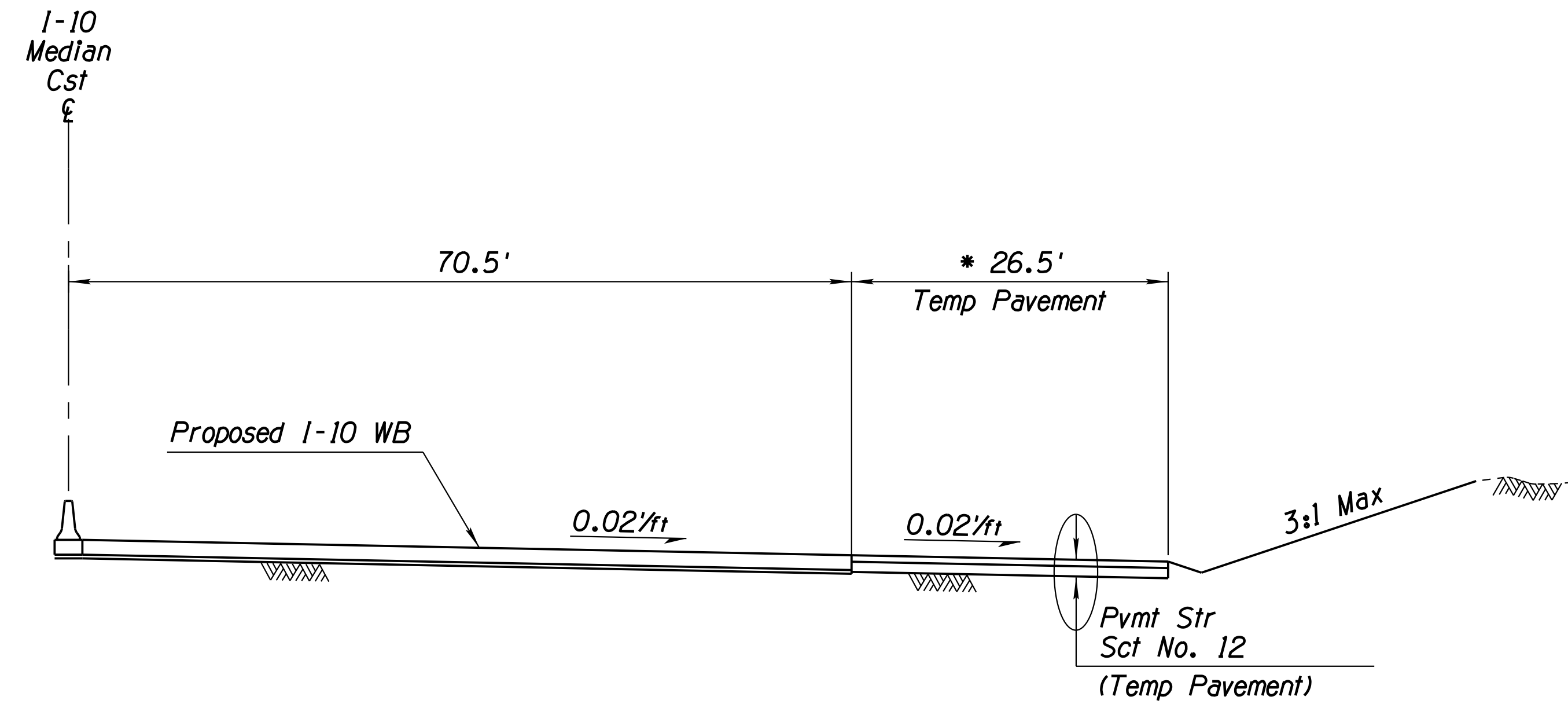
Detour Removal is paid under Item Number 2020152.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JK	DATE	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS TEMP PAVEMENT</b>		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			Expires 9/30/2019
TRACS NO.	H 8480 OIC		010-D(213)S		DWG NO. C-5.11	OF

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	36	849	

010 PM 252



**TYPICAL SECTION - I-10  
(TEMPORARY PAVEMENT BETWEEN GORES)**

Sta 5200+34.17 to Sta 5226+32.53 EB

- \* 27.5' Sta 5211+70.00 to 5216+53.00
- \* 27.5' Sta 5220+48 to sta 5226+32.53

**Note:**

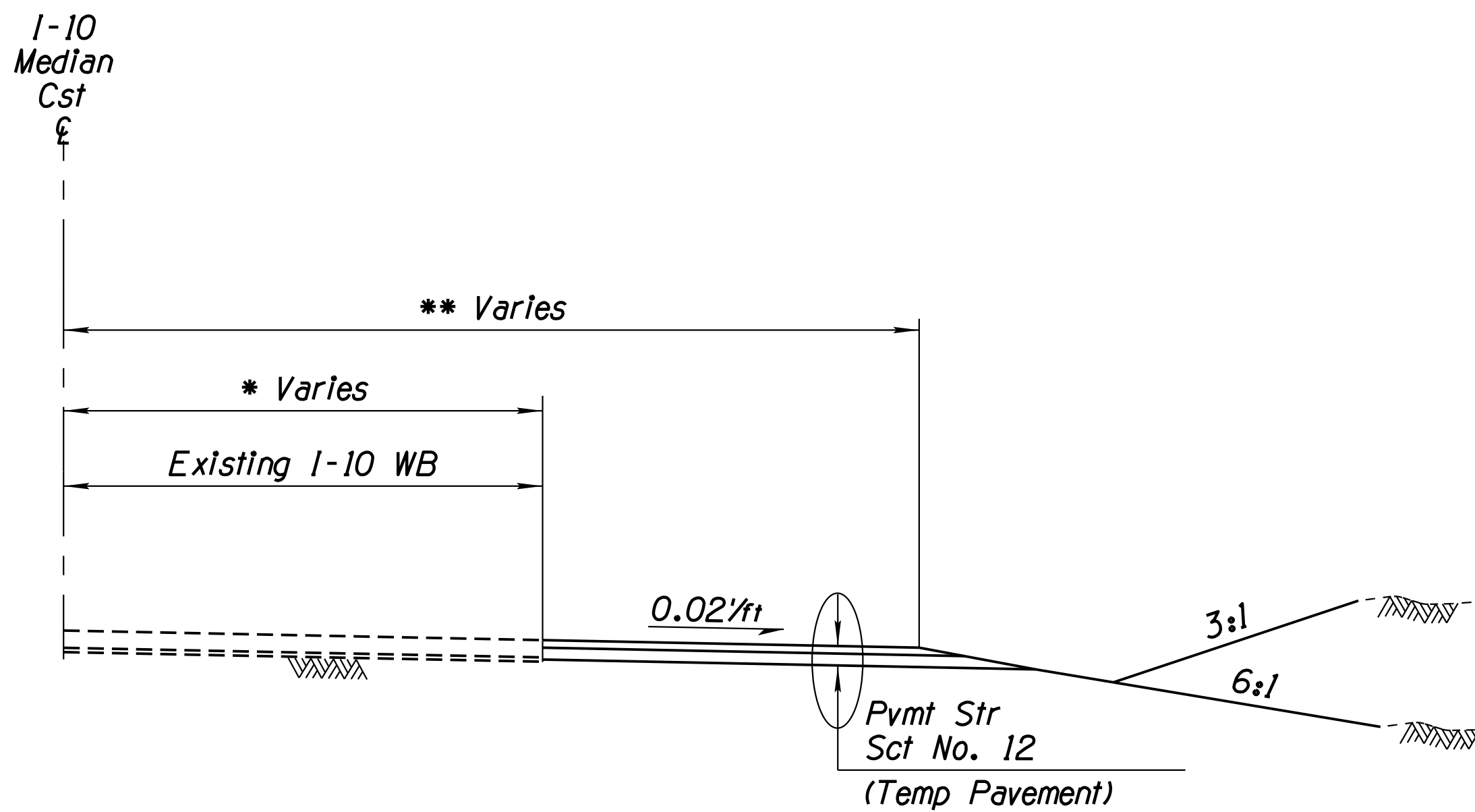
Detour Removal is paid under Item Number 2020152.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		<small>WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281</small>		<b>TYPICAL SECTIONS 2A TEMP PAVEMENT BETWEEN EB GORES</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-5.12 OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	37	849	

010 PM 252



**TYPICAL SECTION - 1-10**

Sta 5230+38.00 to Sta 5247+96.34 1-10 Med Cst €

- \* Varies 97' to 80.60' Sta 5230+38.00 to 5235+79.79 Med Cst €
- \* Varies 80.6' to 85' Sta 5235+79.79 to 5240+31.49 1-10 Med Cst €
- \* 82.5' Sta 5240+31.49 to 5241+98.10 1-10 Med Cst €
- \* Varies 85' to 84.5' Sta 5241+98.10 to 5247+96.34 1-10 Med Cst €

- \*\* 97' Sta 5230+38.00 to 5243+42.66 1-10 Med Cst €
- \*\* Varies 97' to 86.5' Sta 5243+43.66 to Sta 5247+53.84 1-10 Med Cst €
- \*\* 86.5' Sta 5247+53.84 to 5247+96.34 1-10 Med Cst €

Note:

Detour Removal is paid under Item Number 2020152.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>TYPICAL SECTIONS TEMP PAVEMENT</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-5.13 OF

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	38	849	

010 PM 252

FENCING SUMMARY

Plan Ref No. <span style="border: 1px solid black; padding: 2px;">F</span> or <span style="border: 1px solid black; padding: 2px;">G</span>	LOCATION								FENCING		GATES	TEMP	GAME	HANDRAIL	NOTES			
	To				From				h=4"	h=6"	24'	18'	LF	LF		LF	LF	MAG 145
	Reference	Station	Offset (ft)	Lt/Rt	Reference	Station	Offset (ft)	Lt/Rt										
1	I-10 Med Cst ¶	5168+52.61	136.98	Lt	I-10 Med Cst ¶	5170+70.12	129.63	Lt	216									
2	I-10 Med Cst ¶	5170+70.12	129.63	Lt	I-10 Med Cst ¶	5174+06.91	121.66	Lt	335									
3	I-10 Med Cst ¶	5174+06.91	121.66	Lt	I-10 Med Cst ¶	5195+65.66	138.51	Lt	2,147									
4	I-10 Med Cst ¶	5195+65.66	138.51	Lt	I-10 Med Cst ¶	5198+20.80	149.94	Lt	254									
4A	I-10 Med Cst ¶	5198+42.66	150.77	Lt	I-10 Med Cst ¶	5203+33.97	166.29	Lt	490									
G4	I-10 Med Cst ¶	5198+41.89	150.39	Lt	I-10 Med Cst ¶													
5A	I-10 Med Cst ¶	5232+80.16	215.69	Lt	I-10 Med Cst ¶	5235+76.73	207.73	Lt	299									
G5	I-10 Med Cst ¶	5235+97.52	207.42	Lt	I-10 Med Cst ¶													
5	I-10 Med Cst ¶	5235+97.52	207.32	Lt	I-10 Med Cst ¶	5242+25.45	203.01	Lt	632									
G6	I-10 Med Cst ¶	5242+46.45	203.00	Lt	I-10 Med Cst ¶													
6	I-10 Med Cst ¶	5235+73.00	135.38	Lt	I-10 Med Cst ¶	5236+98.85	129.78	Lt	127									
7	I-10 Med Cst ¶	5236+98.85	129.78	Lt	I-10 Med Cst ¶	5251+75.00	128.74	Lt	1,478									
20	I-10 Med Cst ¶	5174+20.47	127.66	Rt	I-10 Med Cst ¶	5179+98.67	108.79	Rt	582									
21	I-10 Med Cst ¶	5179+98.67	108.79	Rt	I-10 Med Cst ¶	5192+44.70	107.92	Rt	1,253									
22	I-10 Med Cst ¶	5192+44.70	107.92	Rt	I-10 Med Cst ¶	5198+41.75	138.01	Rt	601									
23	I-10 Med Cst ¶	5198+41.75	138.01	Rt	I-10 Med Cst ¶	5201+07.08	152.05	Rt	267									
27	I-10 Med Cst ¶	5209+31.95	294.60	Rt	I-10 Med Cst ¶	5212+15.76	303.67	Rt	284									
28	I-10 Med Cst ¶	5216+15.65	338.03	Rt	I-10 Med Cst ¶	5224+89.58	227.83	Rt	881									
29	I-10 Med Cst ¶	5226+91.28	124.50	Rt	I-10 Med Cst ¶	5230+11.27	111.77	Rt	319									
30	I-10 Med Cst ¶	5230+11.27	111.77	Rt	I-10 Med Cst ¶	5233+56.47	109.32	Rt	344									
31	I-10 Med Cst ¶	5241+41.87	118.70	Rt	I-10 Med Cst ¶	5250+27.73	130.44	Rt	886									
40A	Ruthrauff Rd Cst ¶	88+61.10	74.60	Lt	Ruthrauff Rd Cst ¶	88+70.71	74.62	Lt	10									
G40	Ruthrauff Rd Cst ¶	89+12.71	74.66	Lt	Ruthrauff Rd Cst ¶													
40	Ruthrauff Rd Cst ¶	89+12.71	74.66	Lt	Ruthrauff Rd Cst ¶	91+50.36	76.50	Lt	243									
41	Ruthrauff Rd Cst ¶	91+87.27	76.80	Lt	Ruthrauff Rd Cst ¶	92+72.64	77.51	Lt	85									
42	Ruthrauff Rd Cst ¶	92+72.64	77.51	Lt	Ruthrauff Rd Cst ¶	94+69.13	138.60	Lt	206									
Sheet Total									11,939		4							

Where Fence Parallels R/W,  
All Fences Will Be A Minimum  
Of 6" Inside of R/W.  
\* Bottom of Fence Fabric  
Shall Be Located Nominally 1"  
Above Existing Ground.

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


DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>NEW FENCE SUMMARY SHEET</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					Expires 9/30/2019 DWG NO. G-6.01 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	39	849	

010 PM 252

FENCING SUMMARY

Plan Ref No. <span style="border: 1px solid black; padding: 2px;">F</span> or <span style="border: 1px solid black; padding: 2px;">G</span>	LOCATION								FENCING		GATES	TEMP	GAME	HANDRAIL	NOTES			
	To				From				h=4"	h=6"	24'	18'	LF	LF		LF	LF	MAG 145
	Reference	Station	Offset (ft)	Lt/Rt	Reference	Station	Offset (ft)	Lt/Rt										
44	Ruthrauff Rd Cst C	109+16.66	66.12	Lt	Ruthrauff Rd Cst C	114+11.49	57.85	Lt	495									Where Fence Parallels R/W, All Fences Will Be A Minimum Of 6" Inside of R/W. * Bottom of Fence Fabric Shall Be Located Nominally 1" Above Existing Ground.
45	Ruthrauff Rd Cst C	114+11.49	57.85	Lt	Ruthrauff Rd Cst C	114+49.20	90.20	Lt	50									
51	Ruthrauff Rd Cst C	93+28.00	120.56	Rt	Ruthrauff Rd Cst C	94+41.65	144.34	Rt	116									
52	Ruthrauff Rd Cst C	94+41.83	144.38	Rt	Ruthrauff Rd Cst C	96+96.72	192.69	Rt	258									
53	Ruthrauff Rd Cst C	106+21.14	115.53	Rt	Ruthrauff Rd Cst C	107+86.02	110.45	Rt	165									
G53	Ruthrauff Rd Cst C	108+32.37	120.21	Rt	Ruthrauff Rd Cst C													
54	Ruthrauff Rd Cst C	107+86.02	110.45	Rt	Ruthrauff Rd Cst C	108+32.37	120.21	Rt	47									
55	Ruthrauff Rd Cst C	108+37.05	99.74	Rt	Ruthrauff Rd Cst C	108+45.68	61.97	Rt	39									
56	Ruthrauff Rd Cst C	103+41.06	201.80	Lt	Ruthrauff Rd Cst C	104+03.29	245.42	Lt	76									
57	Ruthrauff Rd Cst C	104+03.29	245.42	Lt	Ruthrauff Rd Cst C	103+84.39	344.02	Lt	100									
58	Ruthrauff Rd Cst C	109+04.02	75.00	Rt	Ruthrauff Rd Cst C	114+47.06	75.00	Rt	543									
59	Ruthrauff Rd Cst C	114+47.06	75.00	Rt	Ruthrauff Rd Cst C	114+50.71	82.31	Rt	8									
G59	Ruthrauff Rd Cst C	114+58.73	101.66	Rt	Ruthrauff Rd Cst C													
60	Highway Dr Cst C	17+37.63	69.00	Lt	Highway Dr Cst C	17+74.38	36.82	Lt	49									
61	Highway Dr Cst C	17+74.38	36.82	Lt	Highway Dr Cst C	17+98.77	37.48	Lt	21									
G61	Highway Dr Cst C	18+19.50	38.04	Lt	Highway Dr Cst C													
62	Highway Dr Cst C	18+74.97	52.39	Lt	Highway Dr Cst C	19+33.05	52.27	Lt	58									
63	Highway Dr Cst C	20+83.53	31.52	Lt	Highway Dr Cst C	22+72.46	53.49	Lt	175									
64	Highway Dr Cst C	16+63.51	484.29	Rt	Highway Dr Cst C	16+58.48	48.27	Rt	436									
G64	Highway Dr Cst C	16+79.65	47.91	Rt	Highway Dr Cst C													
65	Highway Dr Cst C	16+79.65	47.91	Rt	Highway Dr Cst C	18+38.69	44.96	Rt	154									
66	Highway Dr Cst C	18+64.64	44.83	Rt	Highway Dr Cst C	19+20.23	43.91	Rt	56									
70	S.Maryvale Ave Cst C	20+86.94	36.74	Lt	S.Maryvale Ave Cst C	20+95.12	34.47	Lt	8									
71	S.Maryvale Ave Cst C	21+10.08	34.19	Lt	S.Maryvale Ave Cst C	21+54.27	47.05	Lt	46									
72	S.Maryvale Ave Cst C	21+99.86	61.36	Lt	S.Maryvale Ave Cst C	22+18.04	44.18	Lt	25									
Sheet Total									2,925		4							

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
<b>wsp</b>		<small>WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281</small>		<b>NEW FENCE SUMMARY SHEET</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. C-6.02 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	40	849	



010 PM 252

FENCING SUMMARY

Plan Ref No. <span style="border: 1px solid black; padding: 2px;">F</span> or <span style="border: 1px solid black; padding: 2px;">G</span>	LOCATION								FENCING		GATES	TEMP	GAME	HANDRAIL	NOTES			
	To				From													
	Reference	Station	Offset (ft)	Lt/Rt	Reference	Station	Offset (ft)	Lt/Rt	h=4"	h=6"	Ea	24'	18'	LF		LF	LF	LF
73	S.Maryvale Ave Cst ☺	22+18.04	44.18	Lt	S.Maryvale Ave Cst ☺	22+18.64	100.22	Lt	56									
74	S.Maryvale Ave Cst ☺	20+86.94	36.74	Lt	S.Maryvale Ave Cst ☺	21+03.17	100.12	Lt	65									
75	S.Maryvale Ave Cst ☺	21+03.17	100.12	Lt	S.Maryvale Ave Cst ☺	21+34.16	100.16	Lt	31									
G75	S.Maryvale Ave Cst ☺	21+55.15	99.73	Lt	S.Maryvale Ave Cst ☺						1							
76	S.Maryvale Ave Cst ☺	21+55.15	99.73	Lt	S.Maryvale Ave Cst ☺	22+18.64	100.22	Lt	63									
77	S.Maryvale Ave Cst ☺	21+01.25	44.10	Rt	S.Maryvale Ave Cst ☺	21+11.91	35.87	Rt	13									
78	S.Maryvale Ave Cst ☺	21+25.46	34.44	Rt	S.Maryvale Ave Cst ☺	21+54.20	48.01	Rt	32									
79	S.Maryvale Ave Cst ☺	22+05.30	48.52	Rt	S.Maryvale Ave Cst ☺	22+04.45	78.10	Rt	30									
G79	S.Maryvale Ave Cst ☺	22+17.08	76.82	Rt	S.Maryvale Ave Cst ☺						1							
78	S.Maryvale Ave Cst ☺	22+17.05	48.32	Rt	S.Maryvale Ave Cst ☺	22+12.22	498.04	Rt	450									
80	North Loop Cst ☺	17+79.98	51.12	Lt	North Loop Cst ☺	18+03.23	70.92	Lt	38									
G80	North Loop Cst ☺	18+13.07	67.78	Lt	North Loop Cst ☺						1							
81	North Loop Cst ☺	18+20.71	68.66	Lt	North Loop Cst ☺	18+27.79	67.12	Lt	10									
82	North Loop Cst ☺	18+27.79	67.12	Lt	North Loop Cst ☺	18+36.02	42.32	Lt	27									
83	North Loop Cst ☺	18+36.02	42.32	Lt	North Loop Cst ☺	18+63.92	42.19	Lt	31									
84	North Loop Cst ☺	18+63.92	42.19	Lt	North Loop Cst ☺	19+02.29	47.59	Lt	39									
85	North Loop Cst ☺	19+02.29	47.59	Lt	North Loop Cst ☺	19+22.35	65.79	Lt	27									
86	North Loop Cst ☺	11+94.54	44.17	Rt	North Loop Cst ☺	14+16.17	42.95	Rt	222									
G86	North Loop Cst ☺	14+74.98	37.55	Rt	North Loop Cst ☺						1							
87	North Loop Cst ☺	14+74.98	37.55	Rt	North Loop Cst ☺	14+87.65	35.85	Rt	13									
88	North Loop Cst ☺	15+02.74	36.33	Rt	North Loop Cst ☺	16+17.15	54.20	Rt	114									
89	North Loop Cst ☺	16+17.15	54.20	Rt	North Loop Cst ☺	17+71.73	65.85	Rt	89									
90	North Loop Cst ☺	17+71.73	65.85	Rt	North Loop Cst ☺	18+61.21	48.88	Rt	61									
91	North Loop Cst ☺	18+76.02	47.90	Rt	North Loop Cst ☺	19+10.58	52.91	Rt	35									
95	Maryvale Con. Cst ☺	18+72.39	52.08	Lt	Maryvale Con. Cst ☺	18+88.93	34.71	Lt	24									
96	Maryvale Con. Cst ☺	18+88.93	34.71	Lt	Maryvale Con. Cst ☺	19+37.93	47.40	Lt	76									
Sheet Total									1,546		1	3						

Where Fence Parallels R/W,  
All Fences Will Be A Minimum  
Of 6" Inside of R/W.  
\* Bottom of Fence Fabric  
Shall Be Located Nominally 1"  
Above Existing Ground.

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

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	MMM	DATE	3-19	
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		NEW FENCE SUMMARY SHEET		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 01C		010-D(213)S		Expires 9/30/2019 DWG NO. G-6.03 OF

















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.

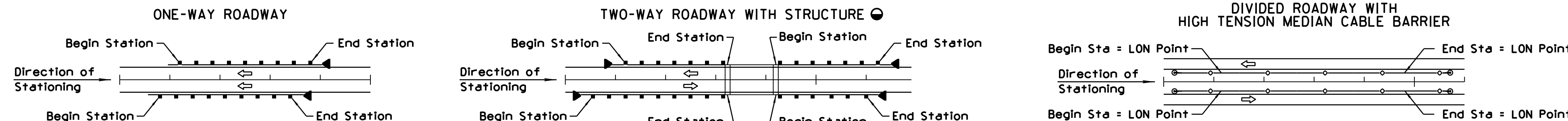
◆ SPECIFY TYPE 1 OR 2 UNDER 'REMARKS'  
 △ SPECIFY GUTTER WIDTH UNDER 'REMARKS'

IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES

■ ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'  
 □ NOTE: FOR RECORD DRAWING PREPARATION - CIRCLE END TREATMENT INSTALLED

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	48	849	

010 PM 252



LOCATION	PLAN REFERENCE NUMBER	GUARDRAIL	BARRIER										TRANSITION		NEW		EXISTING		REMARKS	
			CONCRETE BARRIER	CABLE	RAIL	CONCRETE BARRIER	Each	Action	Each											
I-10 5242+88	13	1076.0	X																	
I-10 5253+64																				
I-10 5191+88 Rt	14	161.2				X														
I-10 5191+21 Rt																				
WBFR 1989+50 Lt	20	18.0				X														4.5' GUTTER WIDTH
WBFR 1989+68 Lt																				
WBFR 1989+68 Lt	21	959.8					X													SEE DETAIL Z
WBFR 1999+27 Lt																				
WBFR 1993+65 Rt	22	222.2				X														4.5' GUTTER WIDTH
WBFR 1995+87 Rt																				
WBFR 1995+87 Rt	23	305.1					X													
WBFR 1998+92 Rt																				
WBFR 2002+94 Lt	25	1260.7					X													SEE DETAIL Z
WBFR 2015+52 Lt																				
WBFR 2015+52 Lt	26	126.4				X														4.5' GUTTER WIDTH SEE DETAIL Z
WBFR 2016+78 Lt																				
WBFR 2016+78 Lt	26A	55				X														
WBFR 2017+31 Lt																				
WBFR 2017+31 Lt	27A	190.0				X														4.5' GUTTER WIDTH
WBFR 2019+21 Rt																				
WBFR 2002+65 Rt	27	737.7					X													
WBFR 2010+04 Rt																				
WBFR 2010+04 Rt	28	199.4				X														4.5' GUTTER WIDTH
WBFR 2013+07 Rt																				
Sheet Total		5,311.5								3	3		7	3						

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.

● SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES

◆ SPECIFY TYPE 1 OR 2 UNDER 'REMARKS'

△ SPECIFY GUTTER WIDTH UNDER 'REMARKS'

■ 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'

□ NOTE: FOR RECORD DRAWING PREPARATION - CIRCLE END TREATMENT INSTALLED

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		BARRIER SUMMARY SHEET
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	Expires 9/30/2019 DWG NO. G-8.02
TRACS NO. H 8480 01C			010-D(213)S	OF





























NOTE:  
THE ZEROS IN PARENTHESES (0, 0.0 & 0.000) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN

NOTE:  
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWINGS C-13.10 AND C-13.15

NOTE:  
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE. ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

CSP - CORRUGATED STEEL PIPE  
CAP - CORRUGATED ALUMINUM PIPE  
BSP - BLACK STEEL PIPE  
CHDPEP - CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE

NOTE:  
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE. ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

REV. DATE: 05/03/2010 SURVEY NO. FINISHED PLANS LOCATION DATE REVISIONS

Station	DESCRIPTION			In.	Ft.	Degree	CSP		CAP	BSP
	Plan Reference Number	Controlling Fill Height Range	C-Corrugated / S-Smooth				In.	Coating	In.	In.
5158+00	1	1	C	181		X				X
I-10 Cst ¶	S	12								
5195+00	2	1	C	199		X				X
I-10 Cst ¶	S	12								
1979+94 @ 45' Rt	3	1	C	60		X				X
EB Frontage Cst ¶	S	12								
1980+84.3 @ 23' Rt	4	1	C	52		X				X
EB Frontage Cst ¶	S	12								
1982+4.74 @ 23' Rt	5	1	C	63		X				X
EB Frontage Cst ¶	S	12								
1983+44.75 @ 26' Rt	6	1	C	46		X				X
EB Frontage Cst ¶	S	12								
1987+66	7	1	C	51		X				X
WB Frontage Cst ¶	S	12								
22+23.5	8	1	C	41		X				X
Ramp A Cst ¶	S	12								
5204+75	9	1	C	159		X				X
I-10 Cst ¶	S	12								
1987+55	10	1	C	80		X				X
EB Frontage Cst ¶	S	12								
2007+76.2	11	1	C	88		X				X
EB Frontage Cst ¶	S	12								
2009+52.4 @ 45' Rt	12	1	C	52		X				X
EB Frontage Cst ¶	S	12								
2016+15	13	1	C	126	13°	X				X
WB Frontage Cst ¶	S	12								
Pipe Sleeve Total				1198						

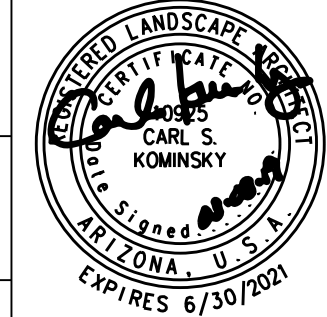
Station	DESCRIPTION			In.	Ft.	Degree	CSP		CAP	BSP
	Plan Reference Number	Controlling Fill Height Range	C-Corrugated / S-Smooth				In.	Coating	In.	In.
5232+00	14	1	C	176		X				X
I-10 Cst ¶	S	12								
2014+53	15		C	49		X				X
EB Frontage Cst ¶	S	12								
91+35	18		C	64		X				X
WB Ruthrauff Cst ¶	S	6								
91+35	19		C	64		X				X
WB Ruthrauff Cst ¶	S	2								
91+53	20		C	39		X				X
EB Ruthrauff Cst ¶	S	6								
91+35	21		C	39		X				X
EB Ruthrauff Cst ¶	S	2								
91+52.5 @ 75' Lt	22	1	C	33		X				X
Ruthrauff Cst ¶	S	4								
91+90.73 @ 75' Rt	23	1	C	59		X				X
Ruthrauff Cst ¶	S	4								
19+30	24	1	C	51		X				X
Davis Ave Cst ¶	S	4								
21+59.39	25	1	C	60		X				X
Davis Ave Cst ¶	S	4								
110+75	26	1	C	50		X				X
WB Ruthrauff Cst ¶	S	6								
110+75	27	1	C	50		X				X
WB Ruthrauff Cst ¶	S	2								
110+75	28	1	C	60		X				X
WB Ruthrauff Cst ¶	S	6								
Pipe Sleeve Total				794						

RANGE NO.	1	2	3	4	5	6	7	8	9	10	11	12	
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90

SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

<input checked="" type="checkbox"/> A	2 3/4 x 1/2	D	6 x 2
B	3 x 1	E	3 x 1 or 9 x 2 1/2
C	9 x 2 1/2		

IRRIGATION CONSULTANT:  
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.  
5609 N. CAMINO DEL SOL  
TUCSON, ARIZONA 85718  
PHONE (520)740-0700  
FAX (520)623-9747

DESIGN	CK	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	
DRAWN	WDC		3/19		
CHECKED	CK/LEM		3/19		
<b>WHEAT DESIGN GROUP</b>		LANDSCAPE ARCHITECTS		NEW PIPE SLEEVE SUMMARY SHEET	
500 N TUCSON BLVD, SUITE 150, TUCSON AZ 85716					
ROUTE	LOCATION	RUTHRAUFF ROAD T1		DWG NO. G-11.01	
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	62	849	

010 PM 252

NOTE:  
THE ZEROS IN PARENTHESES (0, 0.0 & 0.000) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN

NOTE:  
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWINGS C-13.10 AND C-13.15

NOTE:  
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE. ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

- CSP - CORRUGATED STEEL PIPE
- CAP - CORRUGATED ALUMINUM PIPE
- BSP - BLACK STEEL PIPE
- CHDPEP - CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE

NOTE:  
PIPE OPTIONS SELECTED ARE THOSE REQUIRED TO MEET MINIMUM SERVICE LIFE. ALLOWABLE PIPE OPTIONS ARE INDICATED WITH THE LETTER 'X' IN THE SPACE. BLANK SPACES ARE NOT ALLOWABLE ALTERNATES.

Station	DESCRIPTION			CSP		CAP		BSP	
	In.	Ft.	Degree	In.	Coating	In.		In.	
110+75	29	1	C						X
WB Ruthrauff Cst &			S	2					
18+89.87	30	1	C						X
Maryvale Ave Cst &			S	4					
20+85.7	31	1	C						X
Maryvale Ave Cst &			S	4					
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
Pipe Sleeve Total				233					

Station	DESCRIPTION			CSP		CAP		BSP	
	In.	Ft.	Degree	In.	Coating	In.		In.	
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
			C						
			S						
Pipe Sleeve Total									

REV. DATE: 05/03/2010

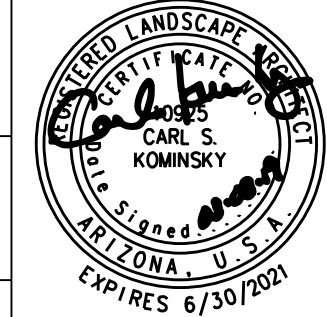
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

RANGE NO.	1	2	3	4	5	6	7	8	9	10	11	12	
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90

SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

<input checked="" type="checkbox"/> A	2 3/4 x 1/2	D	6 x 2
B	3 x 1	E	3 x 1 or 9 x 2 1/2
C	9 x 2 1/2		

IRRIGATION CONSULTANT:  
CARL KOMINSKY LANDSCAPE ARCHITECT, INC.  
5609 N. CAMINO DEL SOL  
TUCSON, ARIZONA 85718  
PHONE (520)740-0700  
FAX (520)623-9747

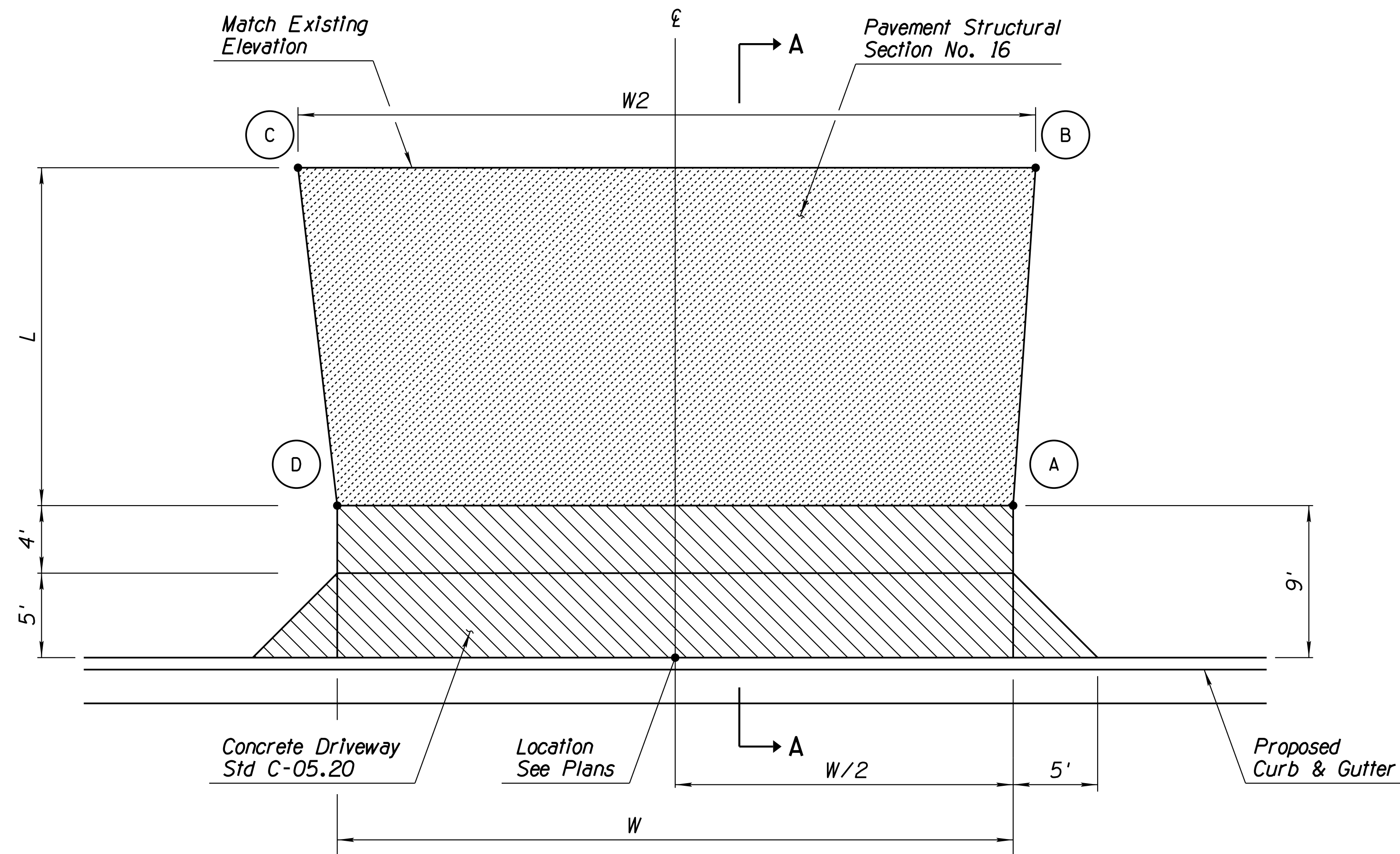
DESIGN	CK	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	
DRAWN	WDC		3/19		
CHECKED	CK/LEM		3/19		
<b>WHEAT DESIGN GROUP</b>		LANDSCAPE ARCHITECTS		NEW PIPE SLEEVE SUMMARY SHEET	
500 N TUCSON BLVD, SUITE 150 TUCSON AZ 85716					
ROUTE	LOCATION	RUTHRAUFF ROAD T1		DWG NO. G-11.02	
TRACS NO. H 8480 01C		010-D(213)S		OF	

ccccSYTIMEcccc

ccccDGNcSPECIFICATIONcccc

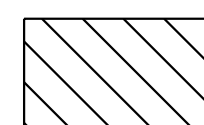
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	63	849	

010 PM 252

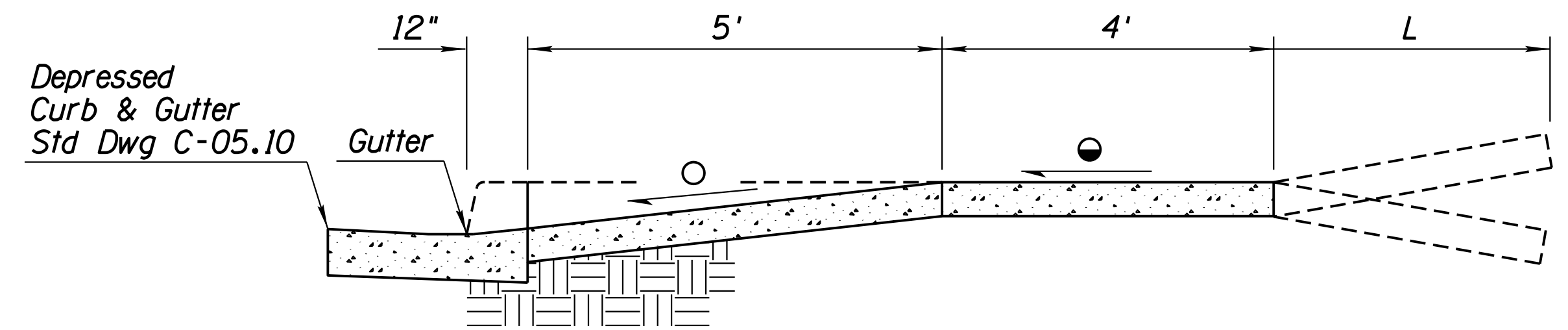


DRIVEWAY PLAN VIEW

LEGEND:

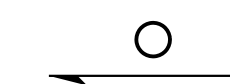


Concrete Driveway, See Standard Detail C-05.20.



SECTION A-A

LEGEND:



Minimum Slope = 0.01 %/ft  
Maximum Slope = 0.02 %/ft



Straight Grade with Downward Slope

NOTES:

1. See Standard Detail C-05.20 for additional information not shown.
2. All driveway Cst  $\xi$  are perpendicular to EB Frontage Rd Cst  $\xi$ .
3. All stationing based on EB Frontage Rd Cst  $\xi$ .
4. All driveway locations shall be field verified and may be adjusted as needed and as approved by the Engineer.

DRIVEWAY HORIZONTAL CONTROL					A		B		C		D	
$\xi$ Station	Offset	W	L	W2	Sta	Offset	Sta	Offset	Sta	Offset	Sta	Offset
EB Frontage Rd Cst $\xi$ 1981+09.84	20.71' Rt	35.2'	10.5'	25.2'	1980+92.28	29.71' Rt	1980+87.56	40.19' Rt	1981+12.72	40.18' Rt	1981+27.40	29.71' Rt
EB Frontage Rd Cst $\xi$ 1982+36.34	20.71' Rt	47.3'	12.4'	34.2'	1982+12.72	29.69' Rt	1982+18.18	49.67' Rt	1982+47.79	49.59' Rt	1982+59.97	29.58' Rt
EB Frontage Rd Cst $\xi$ 1983+69.81	20.71' Rt	34.2'	24.5'	28'	1983+52.77	29.71' Rt	1983+54.98	54.21' Rt	1983+82.82	53.90' Rt	1983+86.85	29.71' Rt

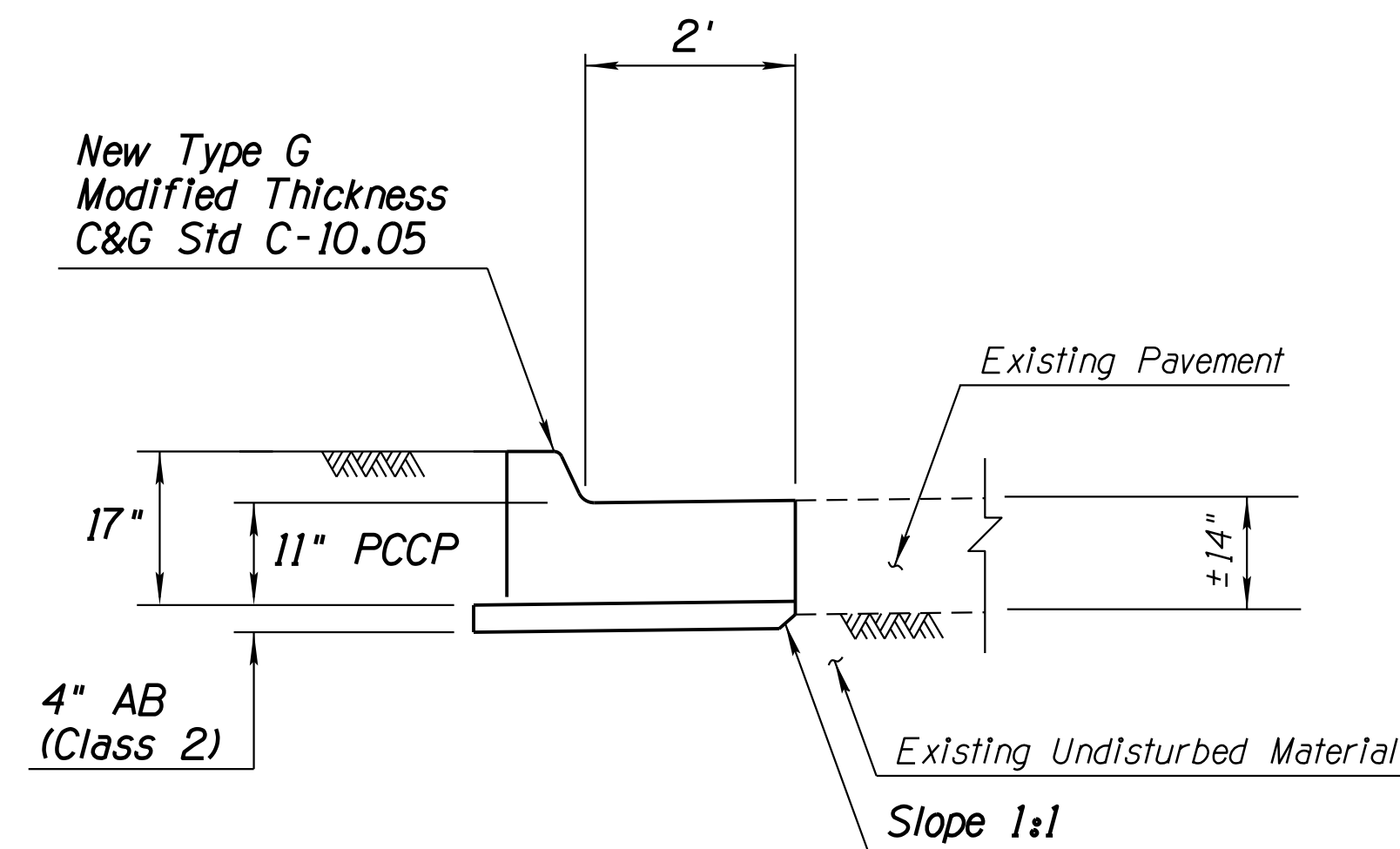
# DETAIL A

DRIVEWAY LAYOUT DETAIL

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		DETAIL SHEET DETAIL A	
1-10		RUTHRAUFF ROAD TI			
TRACS NO. H 8480 01C				010-D(213)S	
				OF	

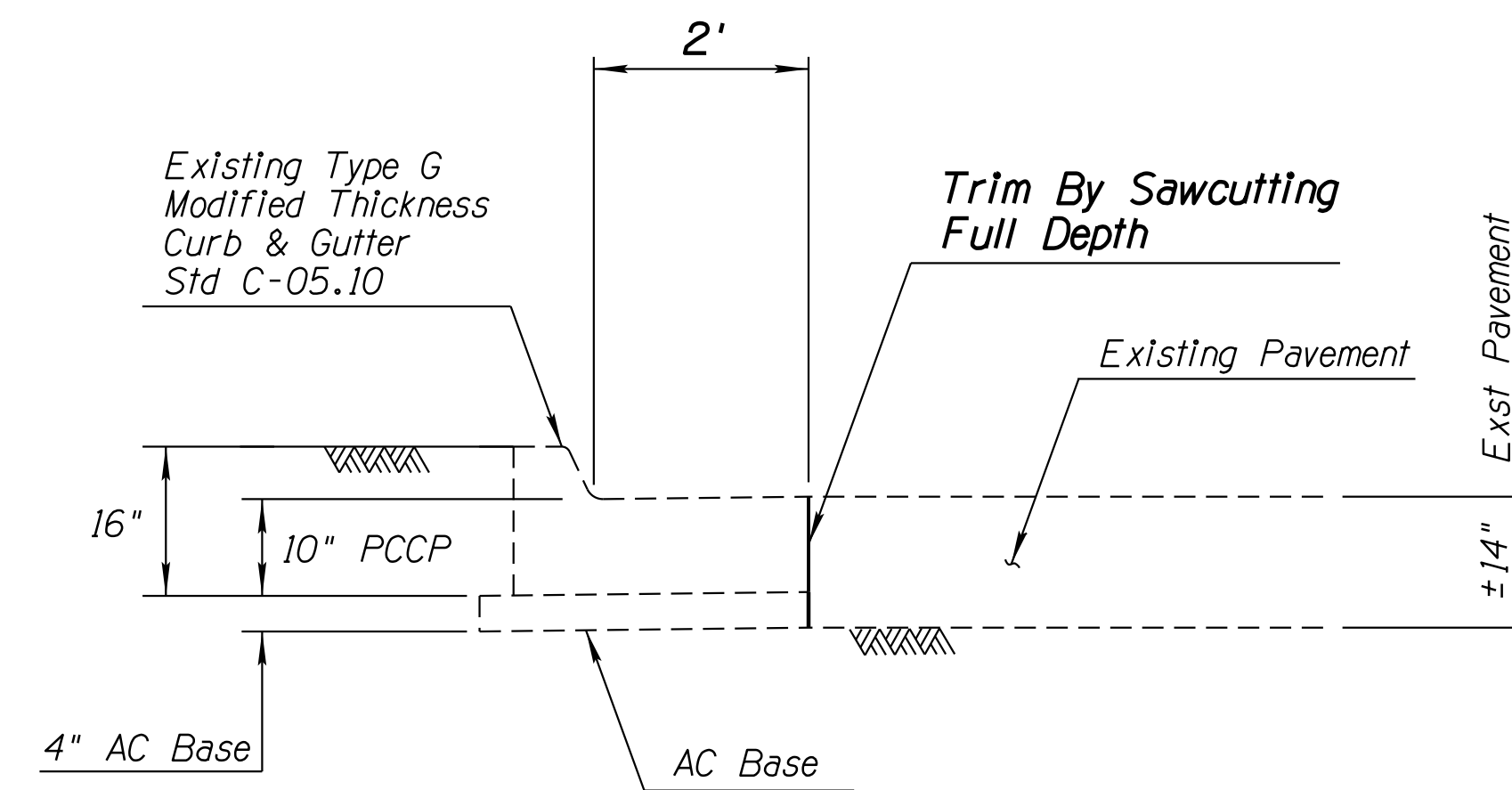
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	64	849	

010 PM 252



REPLACEMENT OF EB & WB FRONTAGE ROADS  
OUTSIDE SHOULDER TREATMENT

NTS



EXISTING EB & WB FRONTAGE ROADS  
OUTSIDE SHOULDER TREATMENT

NTS

**NOTES:**

1. The removal & replacement of the shoulder treatments on existing EB & WB frontage roads for temporary detours is paid for under Item No. 2020167, Removal of Concrete Curb and Gutter (Detail B) and Item No. 9080089, Concrete Curb and Gutter (Detail B) respectively.
2. This treatment will be used when removing curb and gutter in sections of EB and WB Frontage Roads that will not be improved with this project. See Special Provisions for additional information.

# DETAIL B

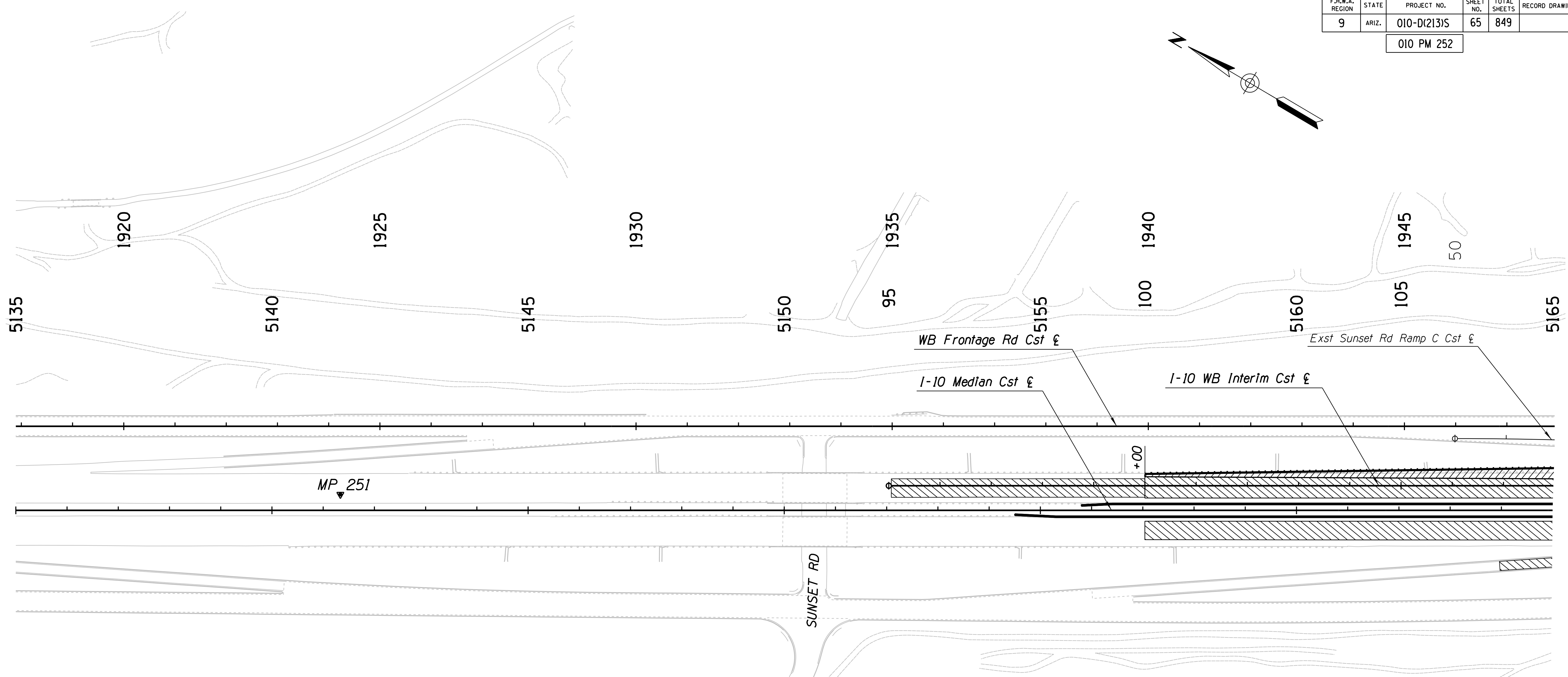
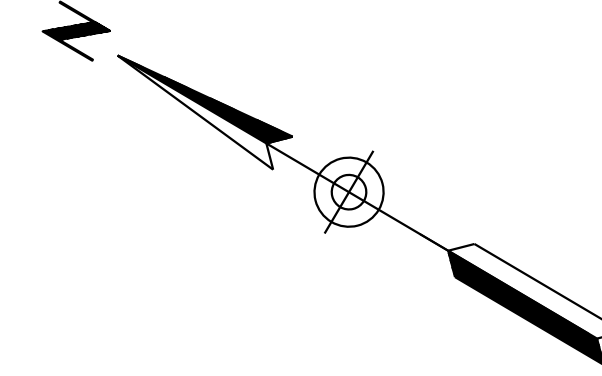
## REMOVAL AND REPLACEMENT OF FRONTAGE ROADS OUTSIDE SHOULDER TREATMENT (INTEGRAL CURB)

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>DETAIL SHEET DETAIL B</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-12.02 OF

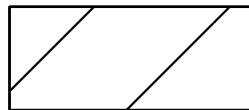
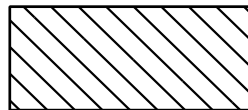

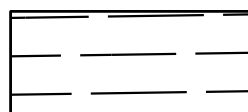
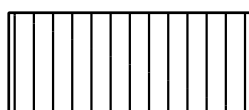
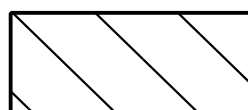

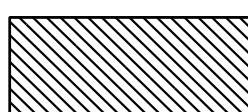
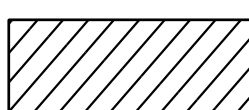
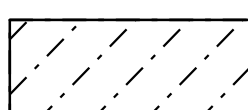
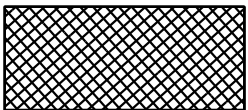
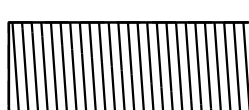

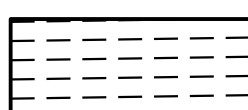
SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE. REVISIONS. FINISHED PLANS. DATE. SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	65	849	

010 PM 252





**LEGEND:**

- |   |   |  |
|---|---|--|
|  PSS 1 (Mainline Travel and Aux Lanes)               |  PSS 6 Existing Mainline (Travel Lanes) |  |
|  PSS 2 (Mainline Inside Shoulders)                   |  PSS 7 (Ruthrauff Rd, PCCP)             |  |
|  PSS 2A (Mainline Outside Shoulders)                 |  PSS 8 (Ruthrauff Rd, AC)               |  |
|  PSS 3 (Interim Mainline Travel Lanes)               |  PSS 9 (Ramps)                          |  |
|  PSS 4 (Interim Mainline Inside & Outside Shoulders) |  PSS 10 (Frontage Roads)                |  PSS 14 (Davis Avenue Frame Structure)    |
|  PSS 5 (I-10 Mainline Gores)                         |  PSS 13 (Driveways)                     |  PSS 15 (Local Collectors, Local Streets) |

# DETAIL C

Sheet 1 of 5

## PAVEMENT STRUCTURAL SECTION LAYOUT

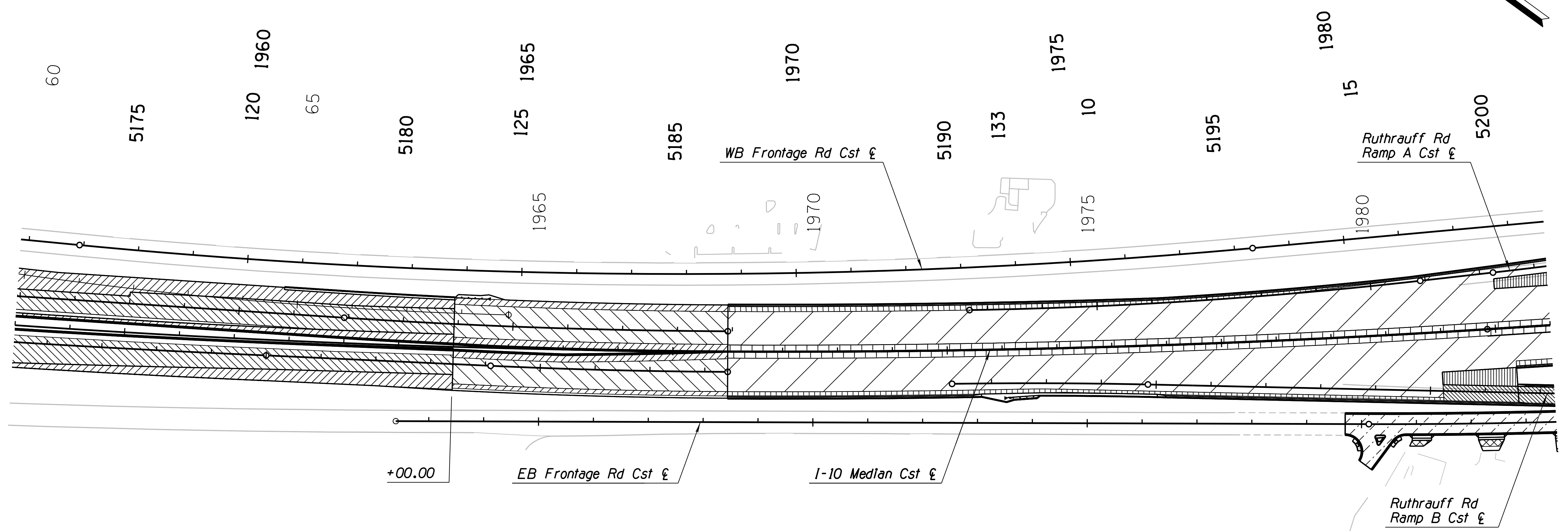
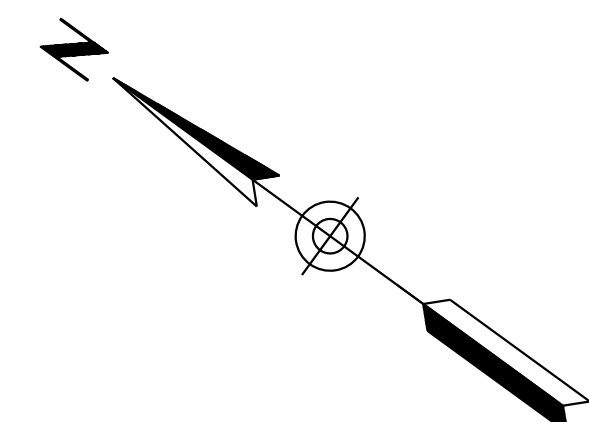
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE I-10		LOCATION RUTHRAUFF ROAD TI	
TRACS NO. H 8480 01C			010-D(213)S		
					Expires 9/30/2019 DWG NO. 6-12.03
					OF

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

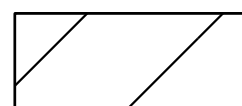
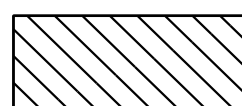

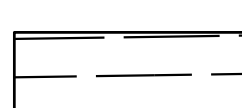







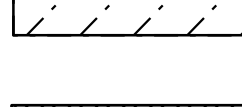
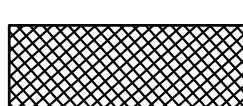
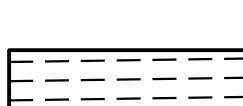


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	66	849	

010 PM 252

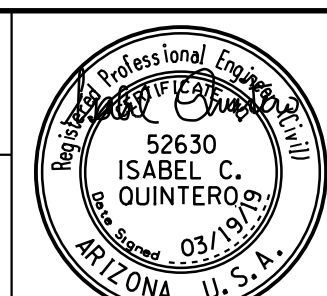


**LEGEND:**

- |   |  |
|---|--|
|  PSS 1 (Mainline Travel and Aux Lanes)               |  PSS 6 Existing Mainline (Travel Lanes)    |
|  PSS 2 (Mainline Inside Shoulders)                   |  PSS 7 (Ruthrauff Rd, PCCP)                |
|  PSS 2A (Mainline Outside Shoulders)                 |  PSS 8 (Ruthrauff Rd, AC)                  |
|  PSS 3 (Interim Mainline Travel Lanes)               |  PSS 9 (Ramps)                             |
|  PSS 4 (Interim Mainline Inside & Outside Shoulders) |  PSS 10 (Frontage Roads)                   |
|  PSS 5 (I-10 Mainline Gores)                         |  PSS 13 (Driveways)                        |
|   |  PSS 14 (Davis Ave Frame Structure)       |
|   |  PSS 15 (Local Collectors, Local Streets) |

# DETAIL C

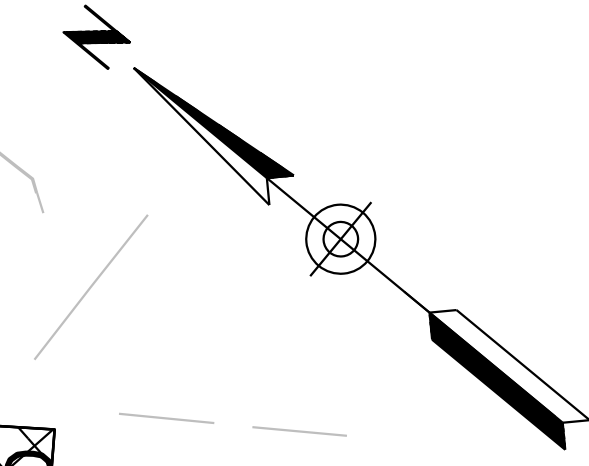
Sheet 2 of 5  
PAVEMENT STRUCTURAL SECTION LAYOUT

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
ROUTE		LOCATION		DETAIL SHEET DETAIL C	
1-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. G-12.04	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

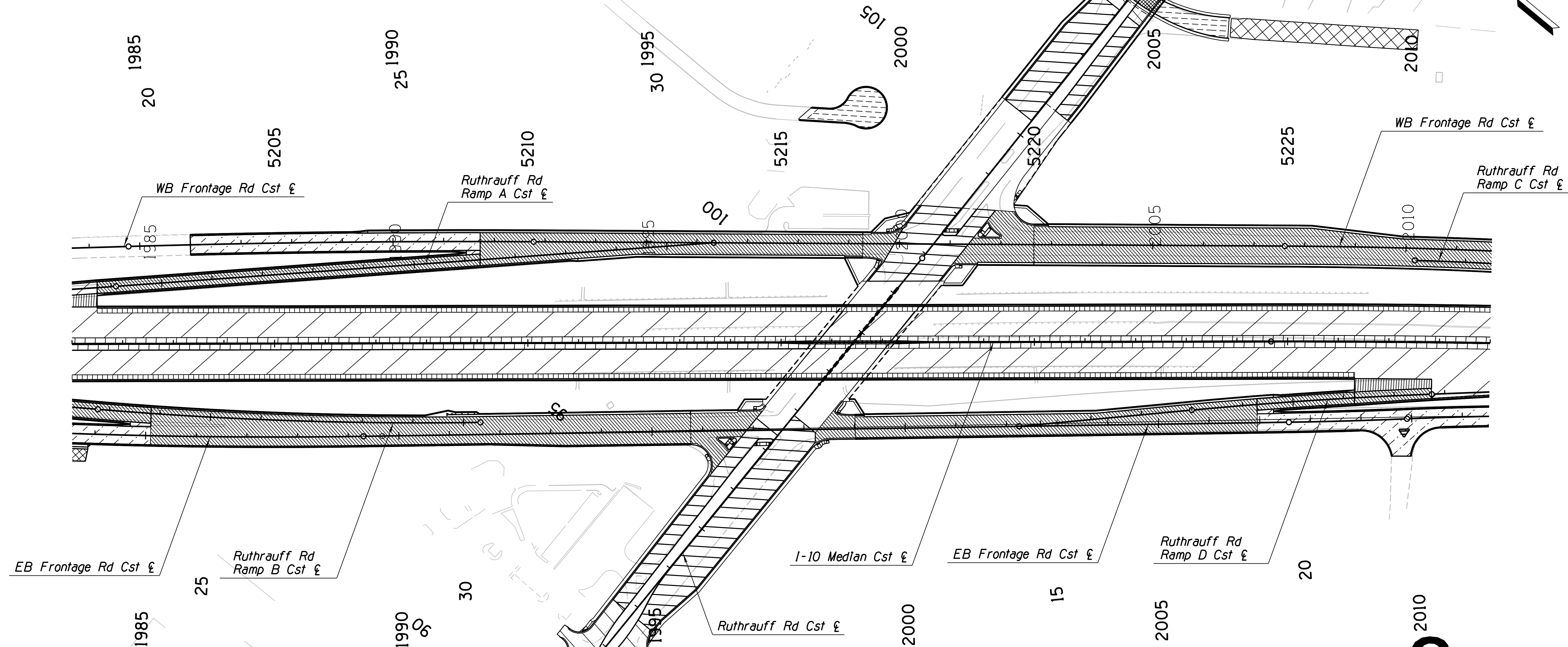
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	67	849	

010 PM 252



**LEGEND:**

- PSS 1 (Mainline Travel and Aux Lanes)
- PSS 2 (Mainline Inside Shoulders)
- PSS 2A (Mainline Outside Shoulders)
- PSS 3 (Interim Mainline Travel Lanes)
- PSS 4 (Interim Mainline Inside & Outside Shoulders)
- PSS 5 (I-10 Mainline Gores)



**LEGEND: (CONT'D)**

- PSS 6 Existing Mainline (Travel Lanes)
- PSS 7 (Ruthrauff Rd, PCCP)
- PSS 8 (Ruthrauff Rd, AC)
- PSS 9 (Ramps)
- PSS 10 (Frontage Roads)
- PSS 13 (Driveways)
- PSS 14 (Davis Ave Frame Structure)
- PSS 15 (Local Collectors, Local Streets)

# DETAIL C

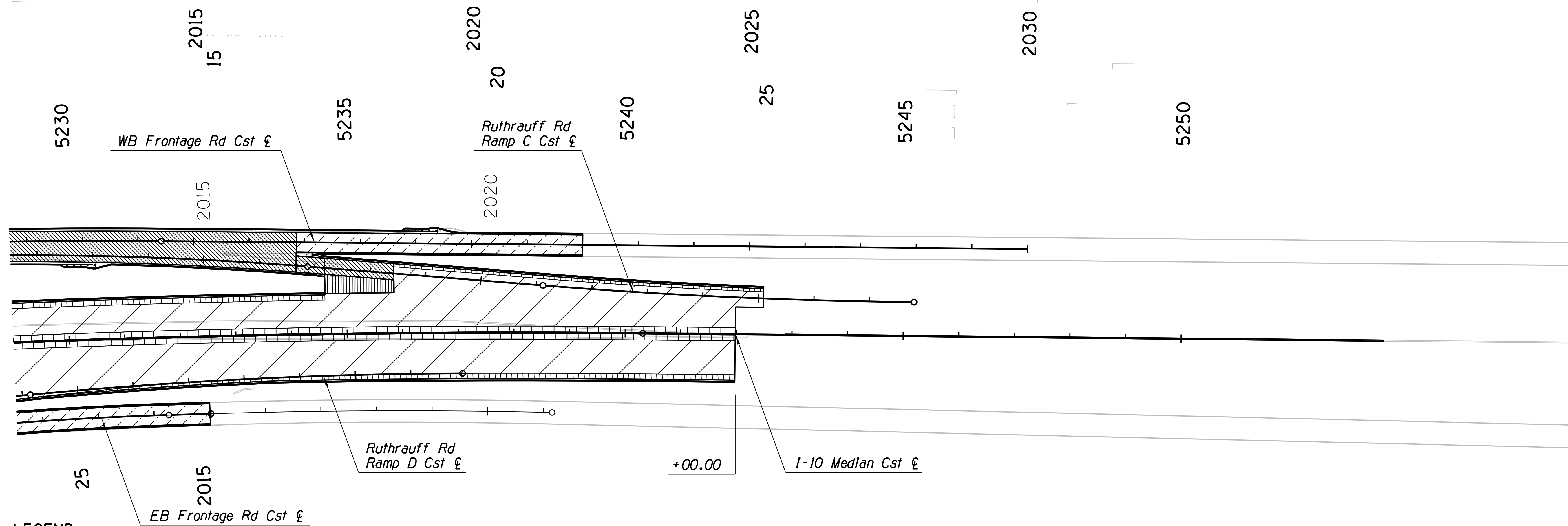
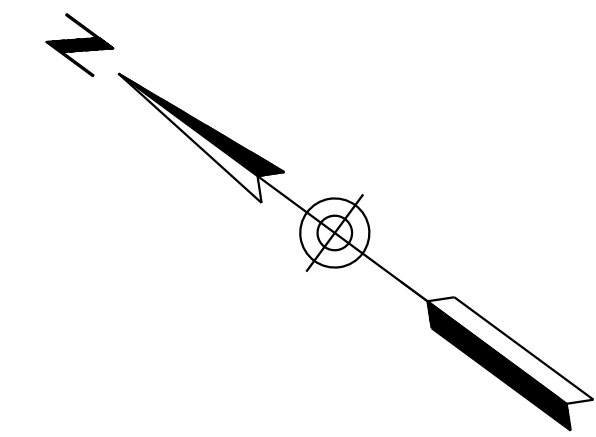
Sheet 3 of 5  
PAVEMENT STRUCTURAL SECTION LAYOUT

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>DETAIL SHEET DETAIL C</b>	
ROUTE	LOCATION			RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S		
			Expires 9/30/2019 DWG NO. 6-12.05 OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	68	849	

010 PM 252



**LEGEND:**

- |  |   |  |  |  |  |
|--|---|--|--|--|--|
|  | PSS 1 (Mainline Travel and Aux Lanes)               |  | PSS 6 Existing Mainline (Travel Lanes) |  | PSS 14 (Davis Ave Frame Structure)       |
|  | PSS 2 (Mainline Inside Shoulders)                   |  | PSS 7 (Ruthrauff Rd, PCCP)             |  | PSS 15 (Local Collectors, Local Streets) |
|  | PSS 2A (Mainline Outside Shoulders)                 |  | PSS 8 (Ruthrauff Rd, AC)               |  |  |
|  | PSS 3 (Interim Mainline Travel Lanes)               |  | PSS 9 (Ramps)                          |  |  |
|  | PSS 4 (Interim Mainline Inside & Outside Shoulders) |  | PSS 10 (Frontage Roads)                |  |  |
|  | PSS 5 (I-10 Mainline Gores)                         |  | PSS 13 (Driveways)                     |  |  |

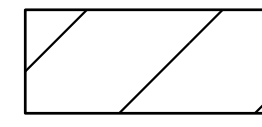
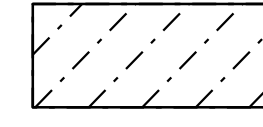
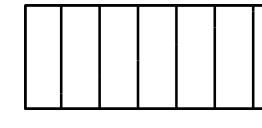
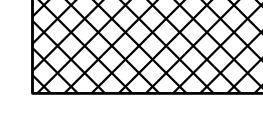
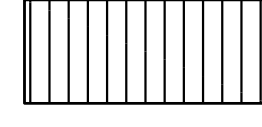
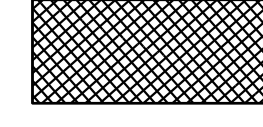

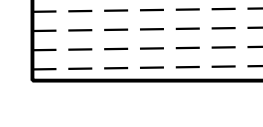
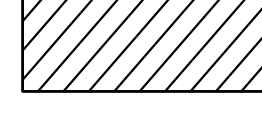



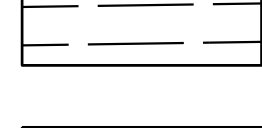


# DETAIL C

Sheet 4 of 5  
PAVEMENT STRUCTURAL SECTION LAYOUT

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
ROUTE		LOCATION		DETAIL SHEET DETAIL C	
I-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. G-12.06	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

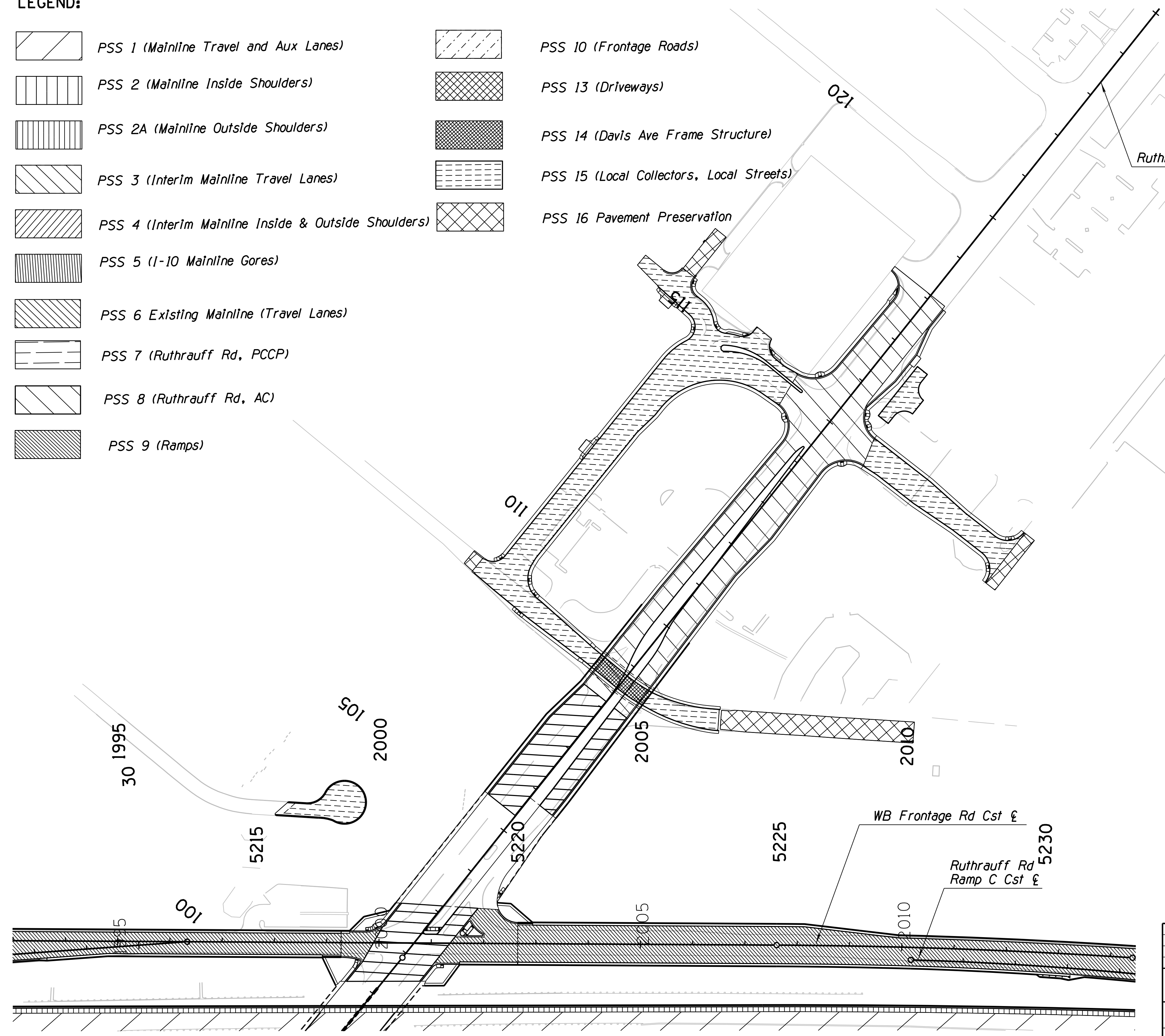
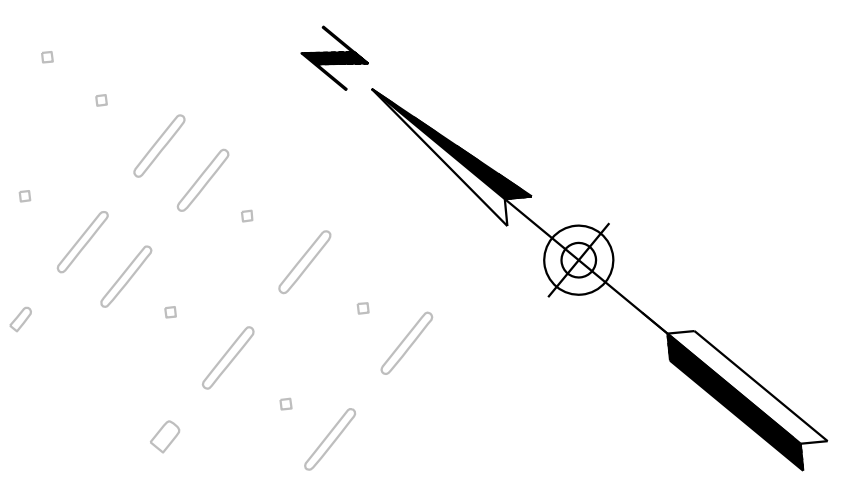
SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

**LEGEND:**

- |   |   |  |  |
|---|---|--|--|
|  | PSS 1 (Mainline Travel and Aux Lanes)               |  | PSS 10 (Frontage Roads)                  |
|  | PSS 2 (Mainline Inside Shoulders)                   |  | PSS 13 (Driveways)                       |
|  | PSS 2A (Mainline Outside Shoulders)                 |  | PSS 14 (Davis Ave Frame Structure)       |
|  | PSS 3 (Interim Mainline Travel Lanes)               |  | PSS 15 (Local Collectors, Local Streets) |
|  | PSS 4 (Interim Mainline Inside & Outside Shoulders) |  | PSS 16 Pavement Preservation             |
|  | PSS 5 (1-10 Mainline Gores)                         |  |  |
|  | PSS 6 Existing Mainline (Travel Lanes)              |  |  |
|  | PSS 7 (Ruthrauff Rd, PCCP)                          |  |  |
|  | PSS 8 (Ruthrauff Rd, AC)                            |  |  |
|  | PSS 9 (Ramps)                                       |  |  |



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	69	849	

010 PM 252



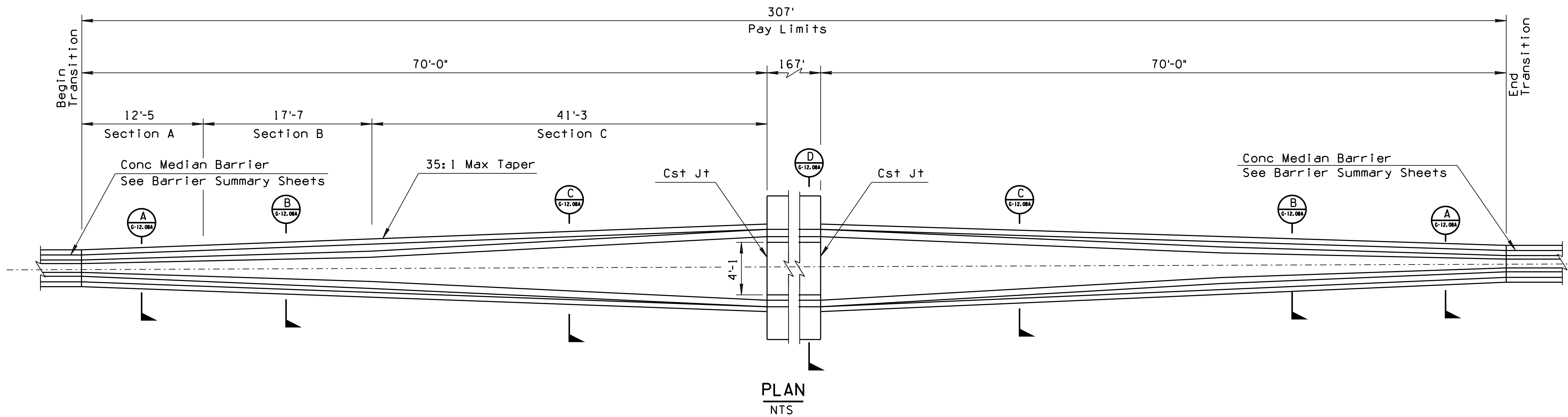
# DETAIL C

Sheet 5 of 5  
PAVEMENT STRUCTURAL SECTION LAYOUT

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	MMM	DATE	3-19		
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DETAIL SHEET DETAIL C		Expires 9/30/2019 DWG NO. G-12.07	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	010-D(213)S		OF	

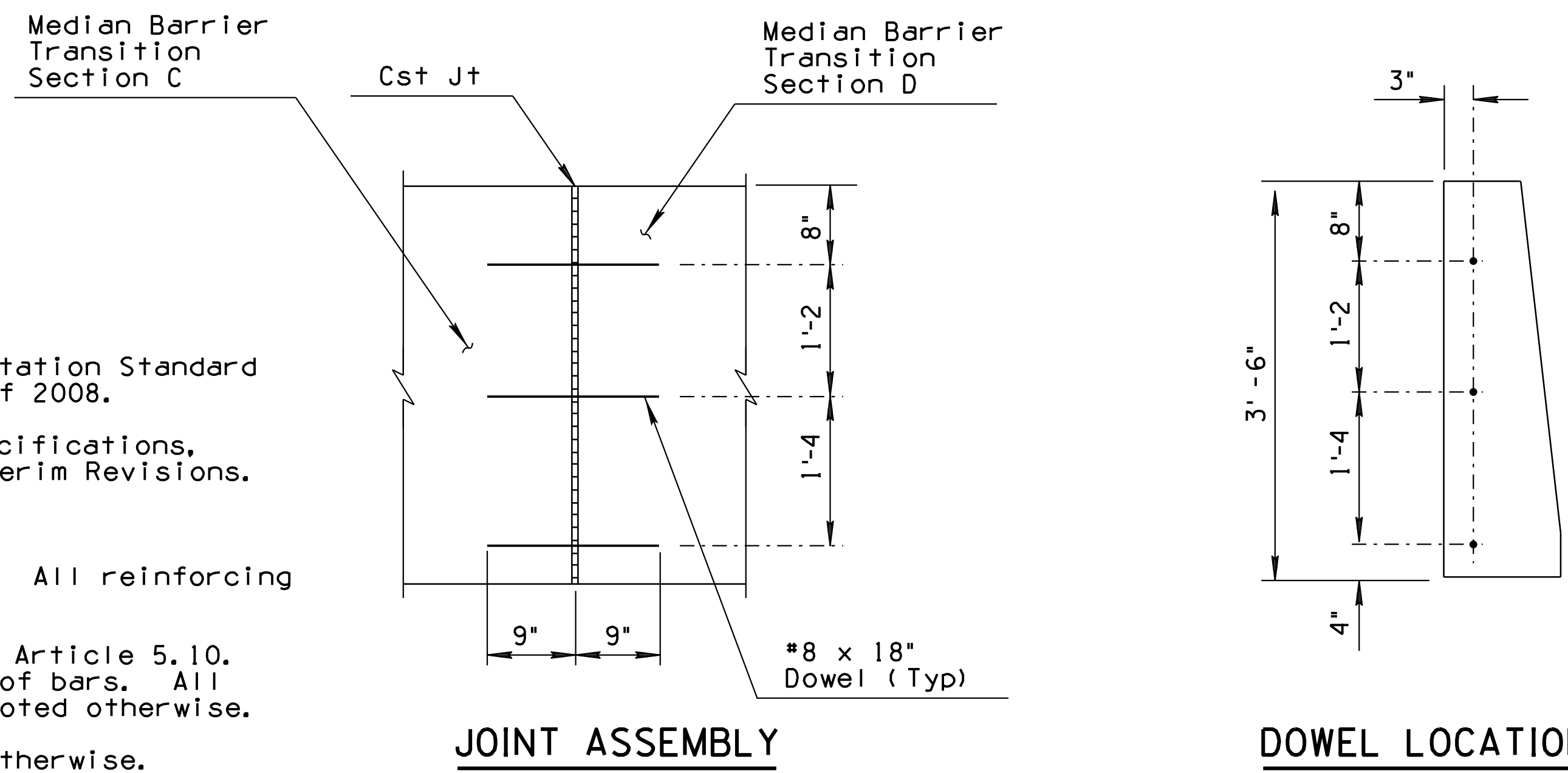
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	70	849	

010 PM 252



**GENERAL NOTES:**

- Construction Specifications - Arizona Department of Transportation Standard Specifications for Road & Bridge Construction, Edition of 2008.
- Barrier Design Specification - AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 7th Edition with 2015 and 2016 Interim Revisions.
- All Concrete shall be Class 'S' (f'c = 4000 psi).
- Reinforcing steel shall conform to ASTM Specifications A615. All reinforcing shall be furnished as Grade 60.
- All bends & hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing shall be out-to-out of bars. All placement dimensions shall be to center of bars unless noted otherwise.
- All reinforcing shall have 2 inch clear cover unless noted otherwise.
- Longitudinal reinforcing shall extend 12" past the construction joint at the completion of each incremental pour.
- Concrete barrier transition shall be constructed by the Slip Form or Formed Cast-in-Place Methods only.
- When obstacles are encountered which prevent the use of slip form equipment, the closure shall be accomplished by the use of stationary forms at no additional cost to the department.
- Median Barrier Transition (Detail D), as shown in this detail, will be paid for under bid item No. 9100114 Concrete Barrier Transition (Detail D) at the contract unit price per Each.



**CONSTRUCTION JOINT DETAIL**  
NTS

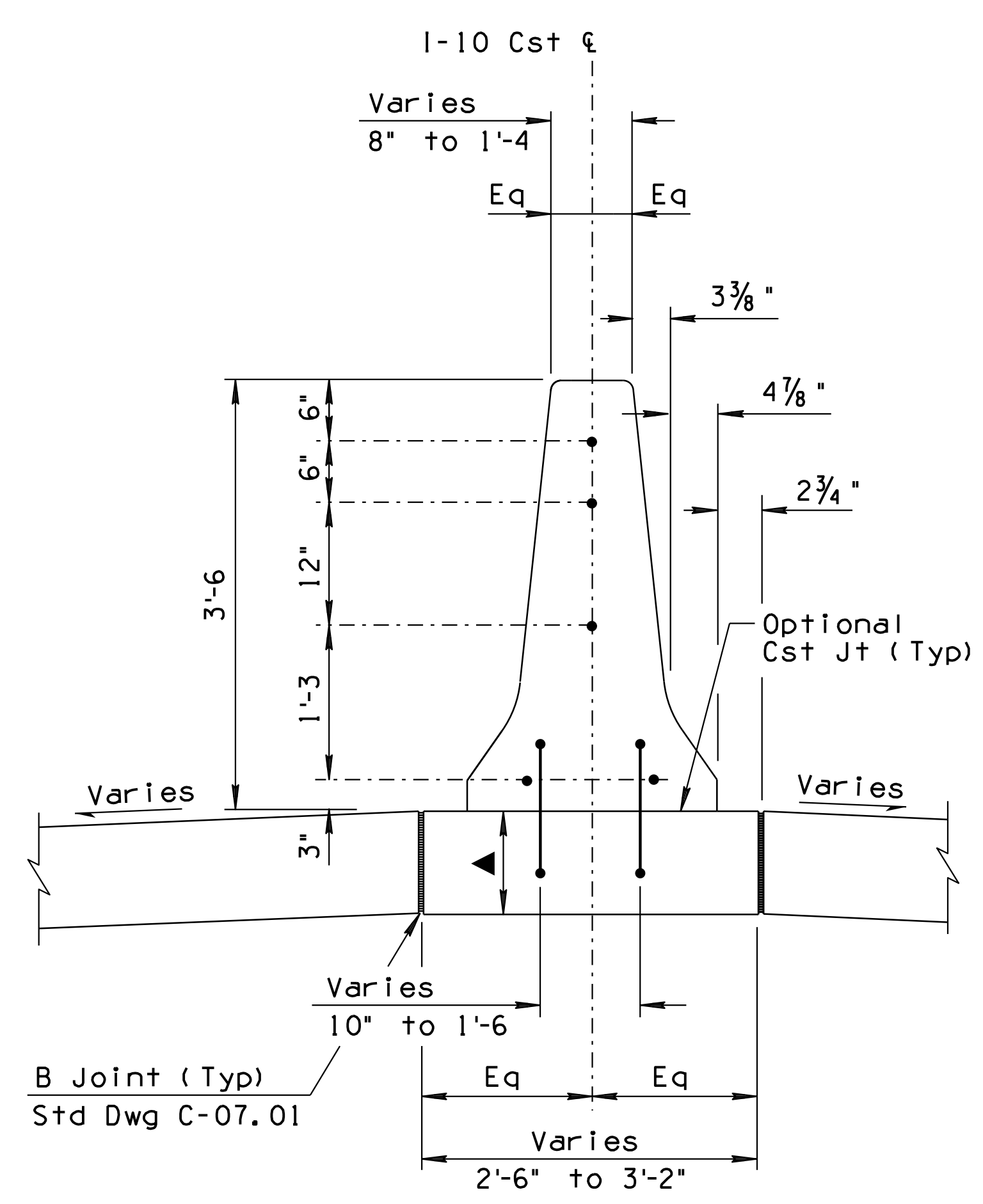
**DETAIL D**

Sheet 1 of 2  
**MEDIAN BARRIER TRANSITION AT BRIDGES**

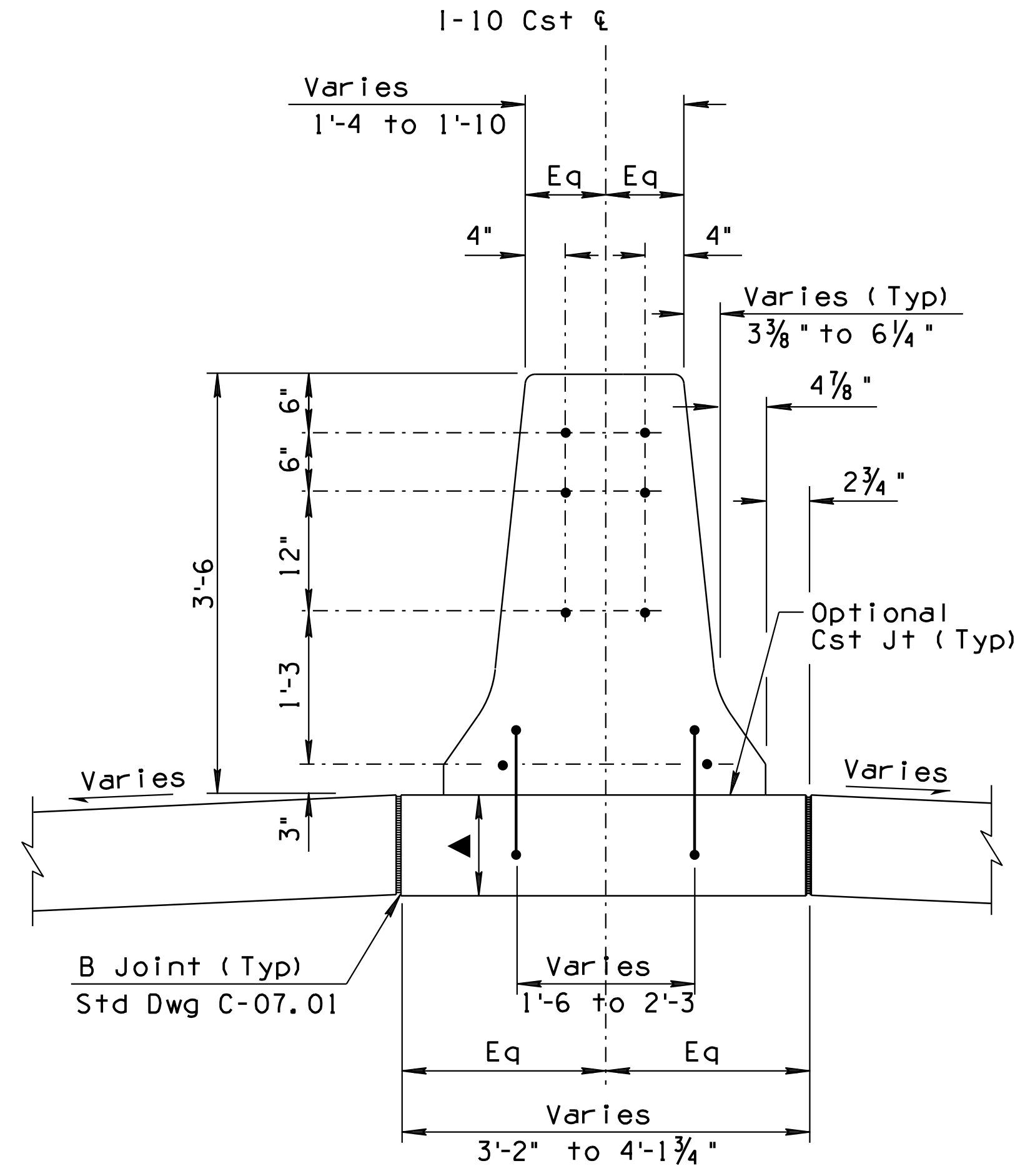
DESIGN	JC	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	71	849	

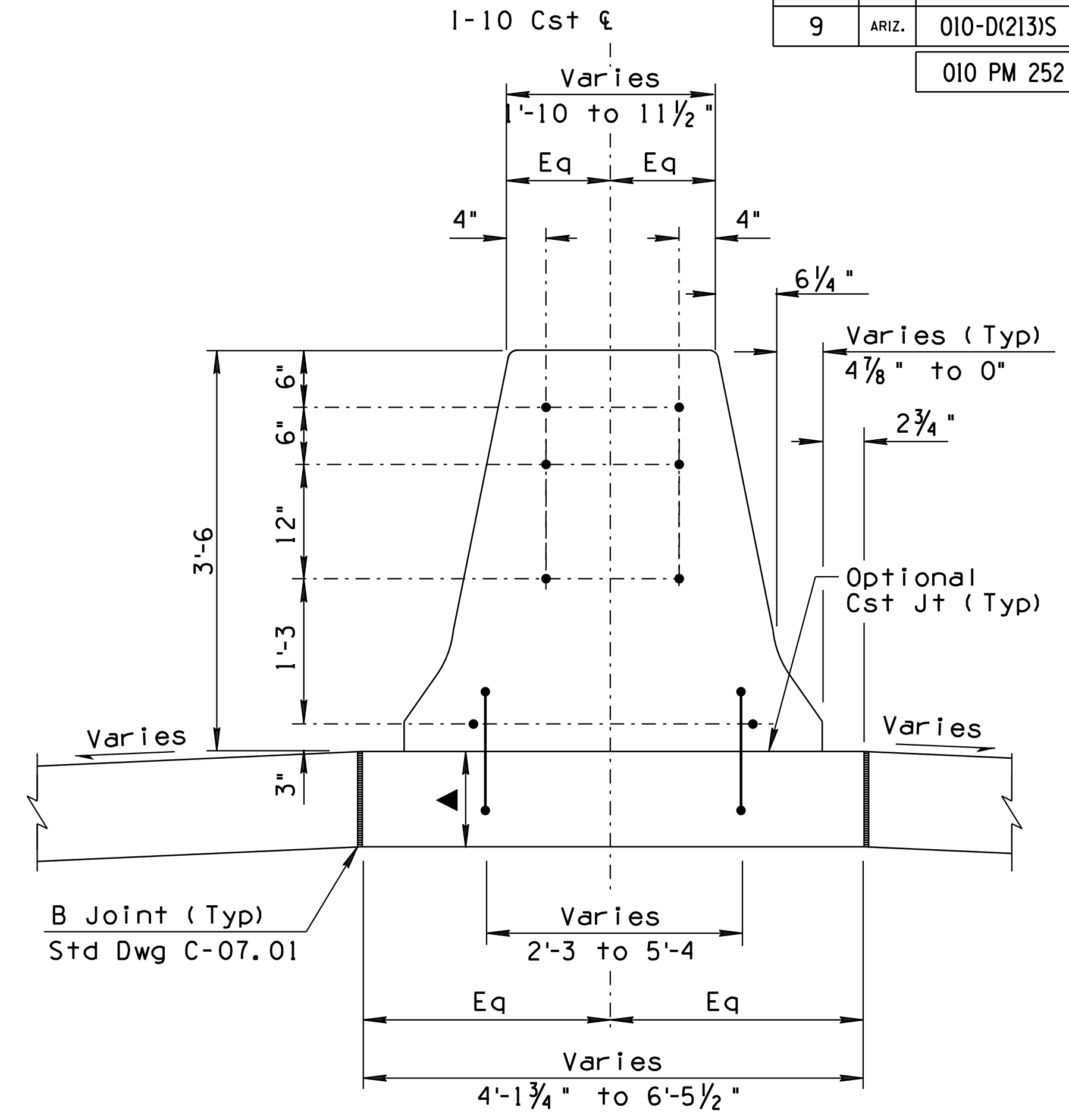
010 PM 252



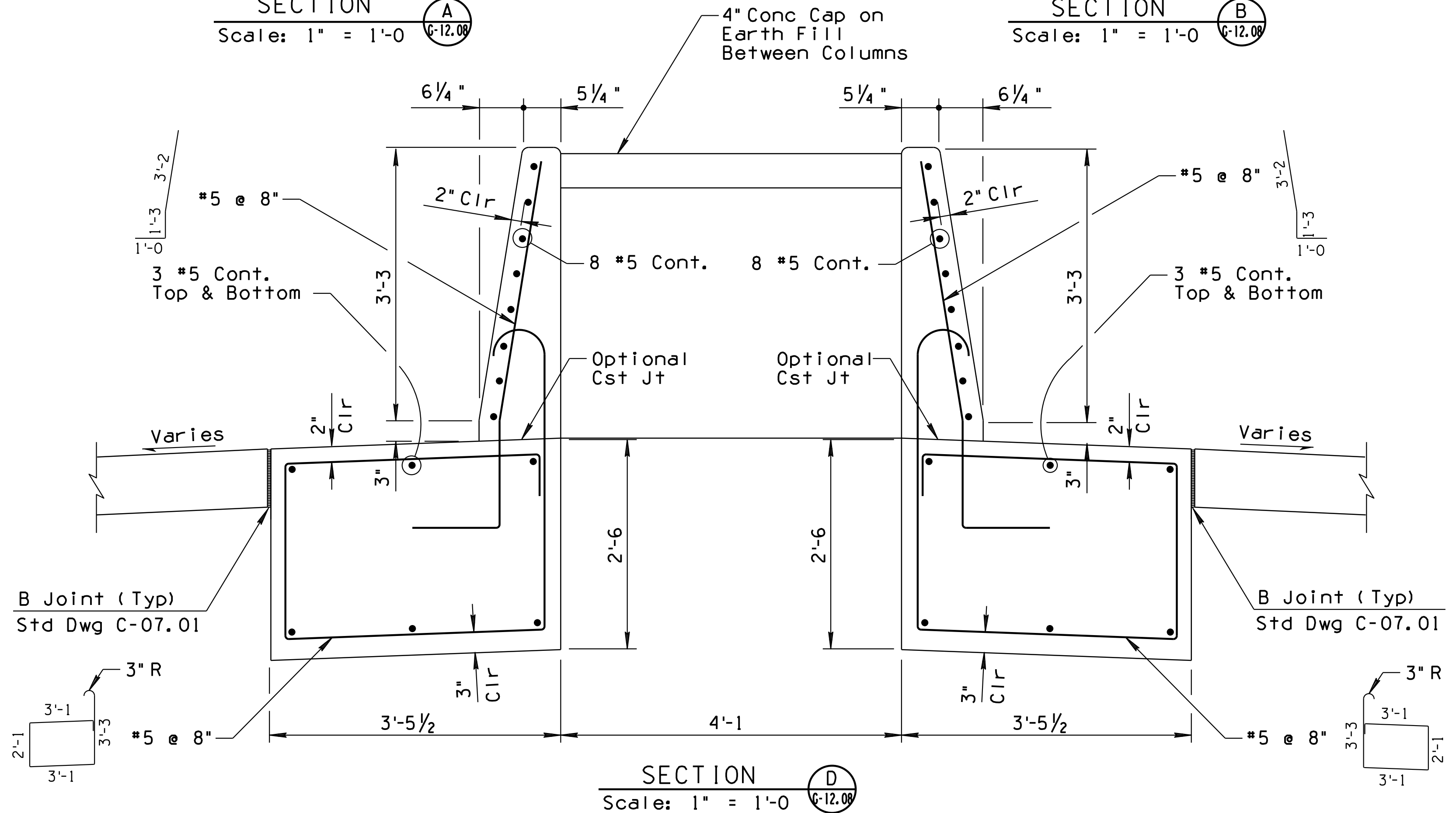
SECTION A  
Scale: 1" = 1'-0"  
G-12.08



SECTION B  
Scale: 1" = 1'-0"  
G-12.08



SECTION C  
Scale: 1" = 1'-0"  
G-12.08



SECTION D  
Scale: 1" = 1'-0"  
G-12.08

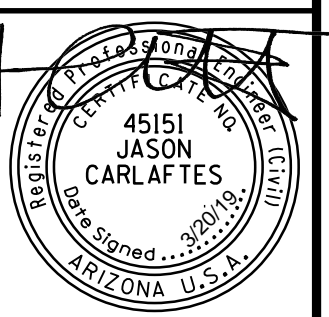
NOTES:

1. See Dwg No. G-12.08 for Notes and Details.
  2. For additional dimensions and details not shown, See Typical Barrier Details.
- ▲ See Typical and Pavement Structural Sections for PCCP Thickness.

# DETAIL D

Sheet 2 of 2  
MEDIAN BARRIER TRANSITIONS AT BRIDGES

DESIGN	JC	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
ROUTE		LOCATION		DETAIL SHEET DETAIL D
1-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. G-12.08A



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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	72	849	

010 PM 252

**GENERAL NOTES:**

Construction Specification - Arizona Department of Transportation Standard Specifications for Road & Bridge Construction, Edition of 2008.

Barrier Design Specifications - AASHTO LRFD Bridge Design Specifications, Customary US Units, 7th Edition 2012 with 2015 and 2016 interims.

All concrete shall be Class "S" (f'c = 4000 psi).

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

All bend & hooks shall meet the requirements of AASHTO LRFD Bridge Design Specifications 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 otherwise noted.

All reinforcing steel shall have 2 inches clear cover unless otherwise noted.

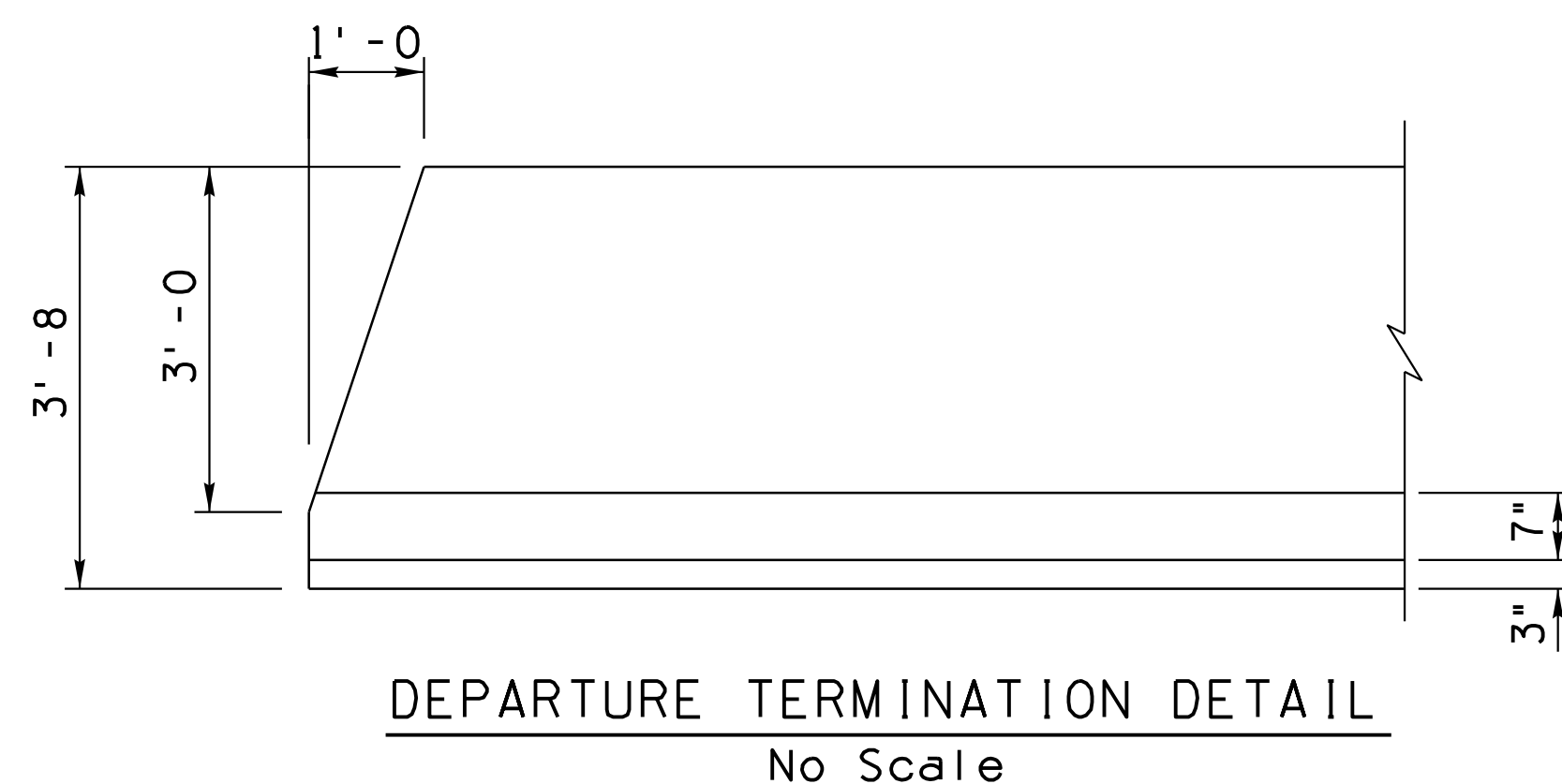
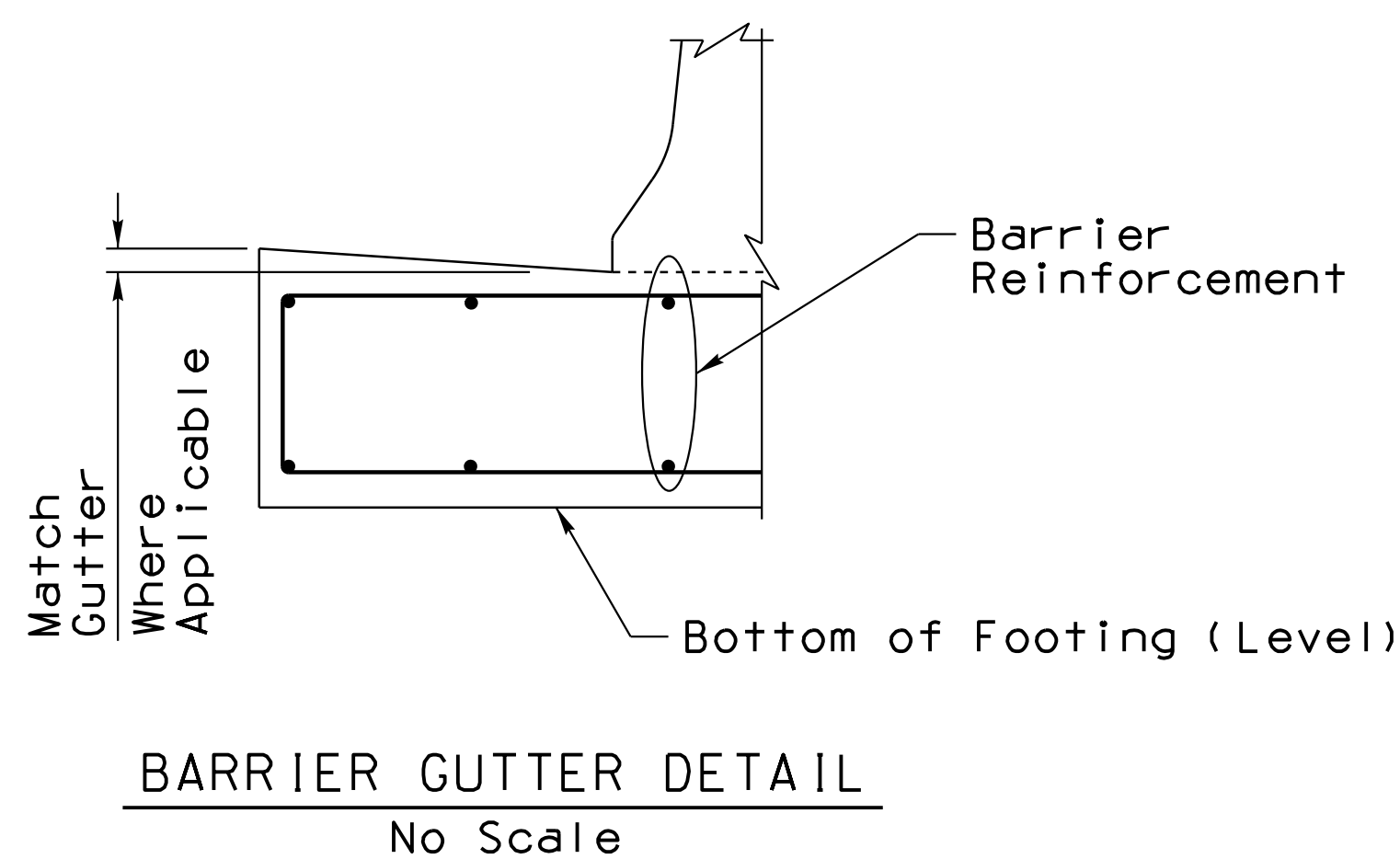
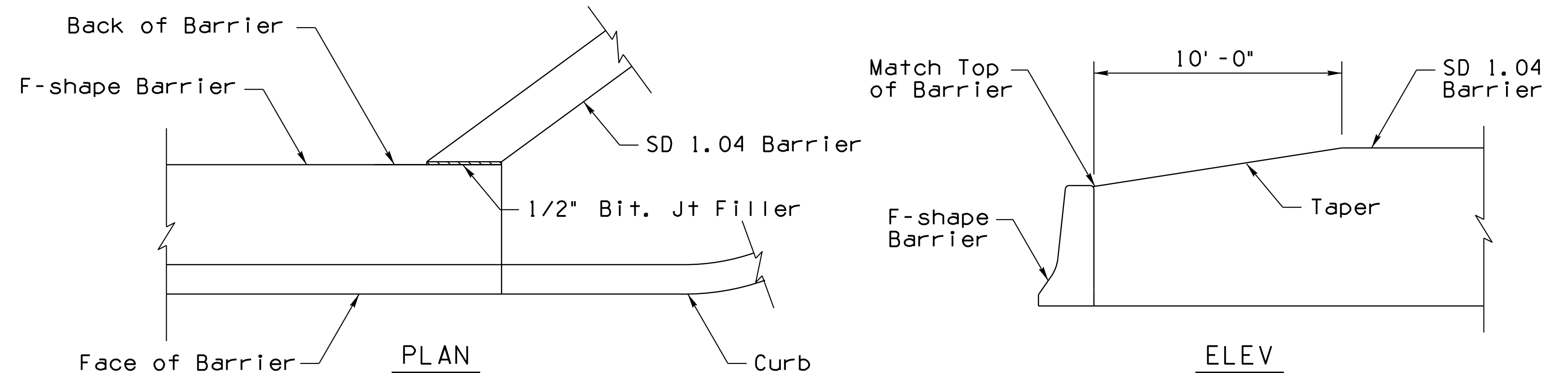
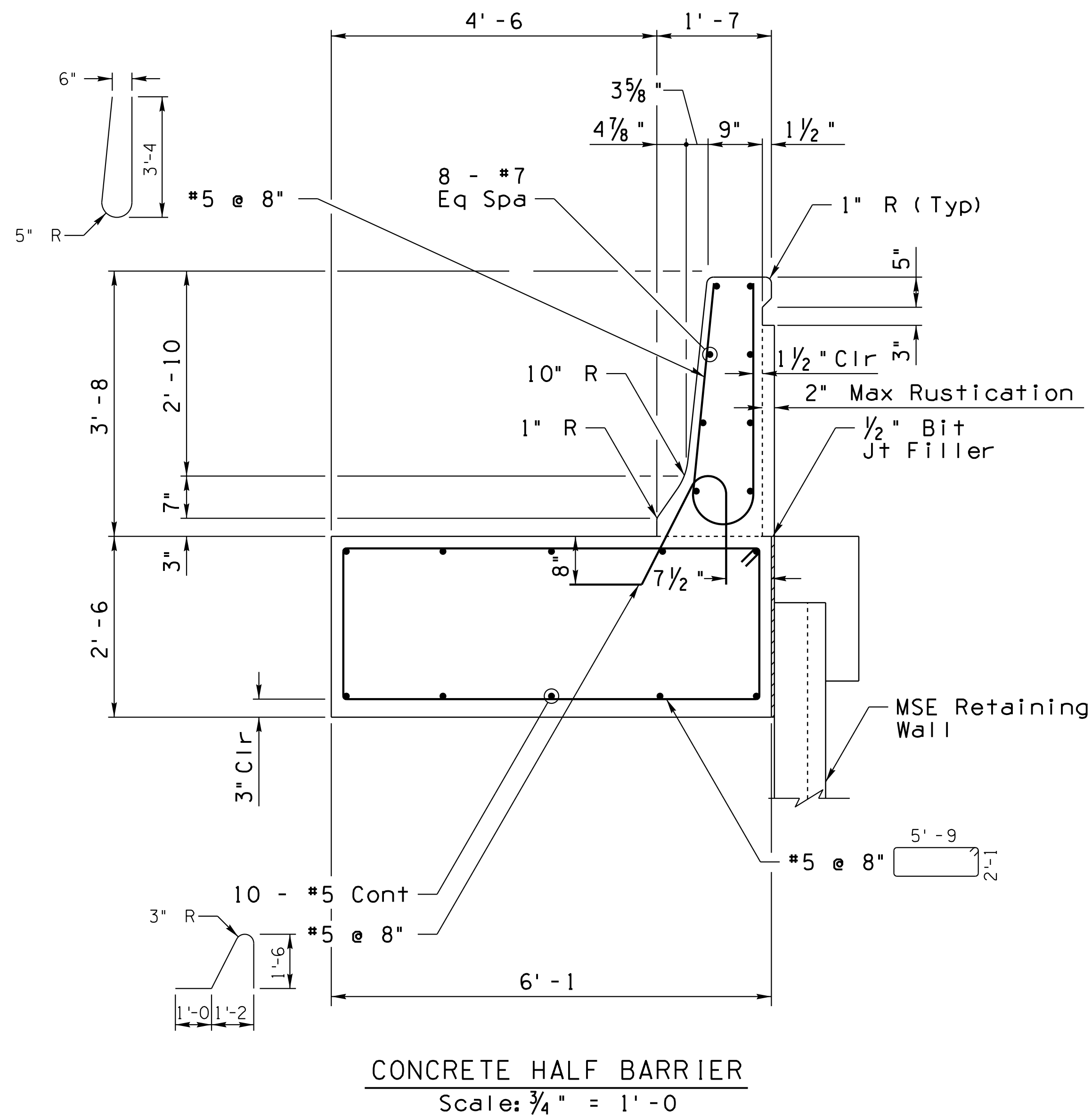
Chamfer all exposed corners 3/4" unless otherwise noted.

Dimensions shall not be scaled from drawings.

When the pavement section slopes away from the gutter, the slope of the gutter shall match the pavement cross slope (2" gutter depression not applicable).

This work is being paid for under Item No. 9240115 Miscellaneous Work (Concrete Barrier - Detail E) (L. FT).

See Barrier Summary Sheets for locations.

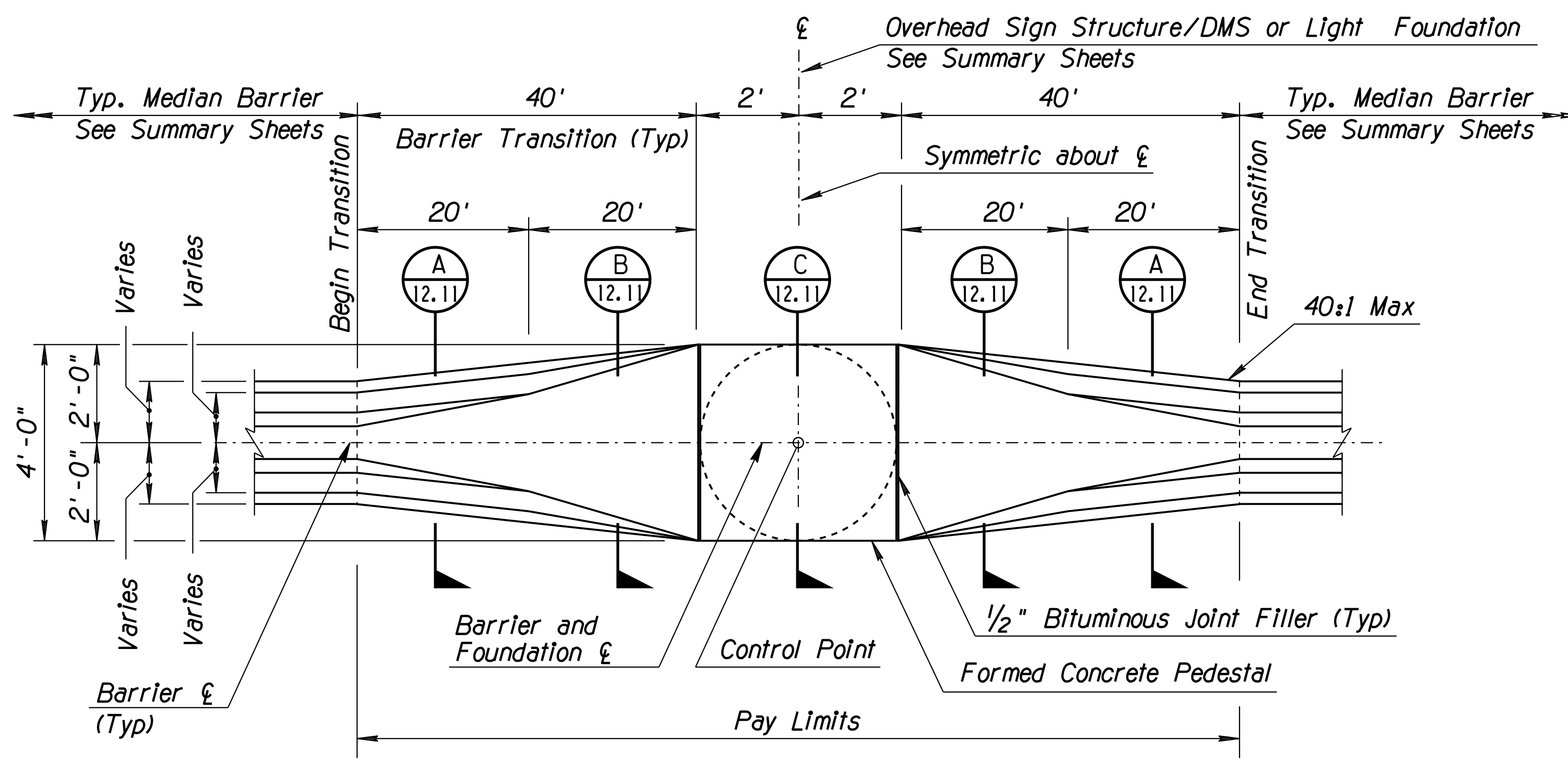


**DETAIL E**  
CONCRETE BARRIER DETAIL AT MSE WALL

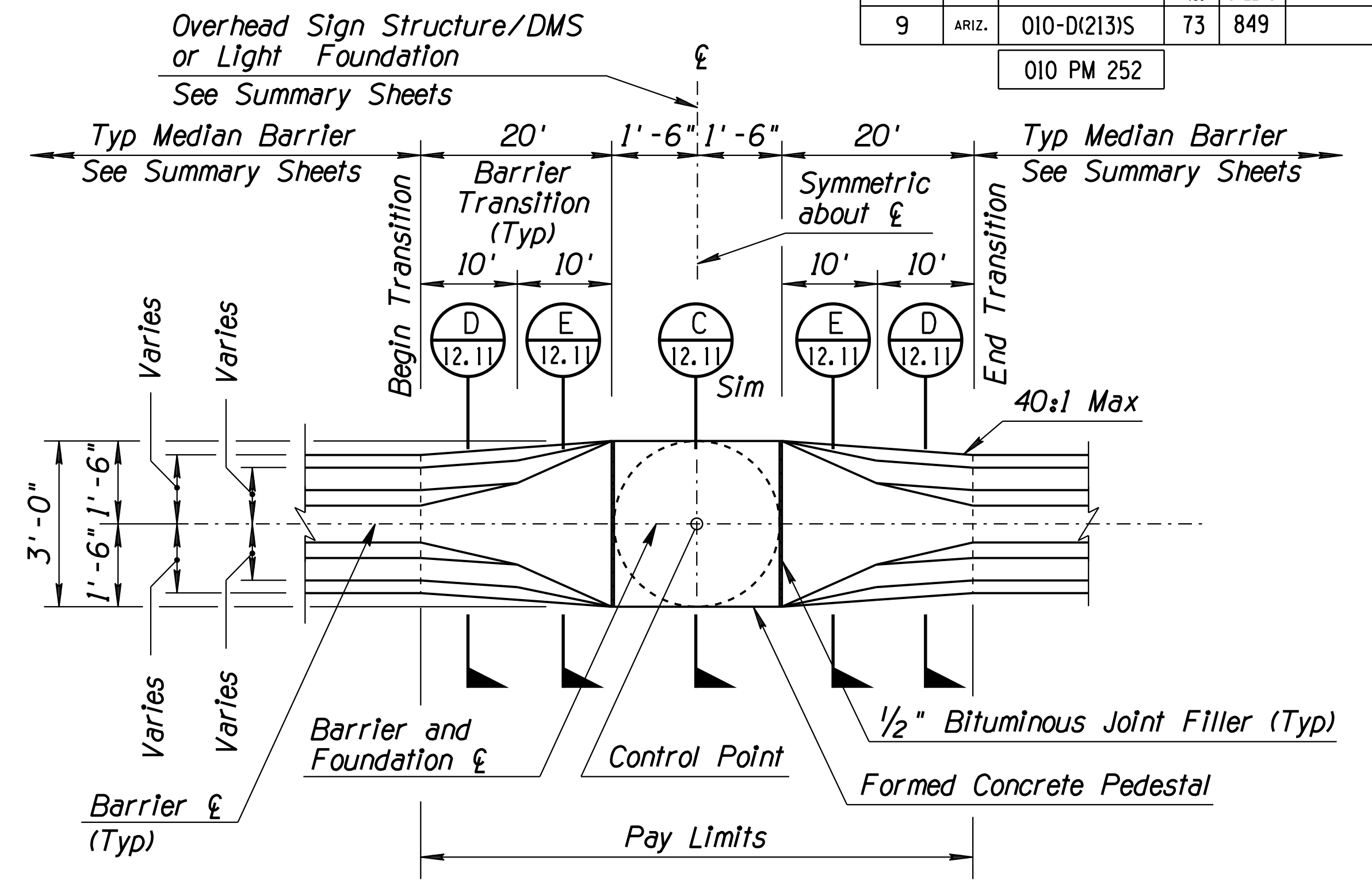
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JC		3-19	
CPG		3-19	
CHECKED	JK	3-19	
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			
ROUTE	LOCATION	DETAIL SHEET DETAIL E	
I-10	RUTHRAUFF ROAD TI	Expires 9/30/2021 DWG NO. G-12.09	
TRACS NO. H 8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	73	849	

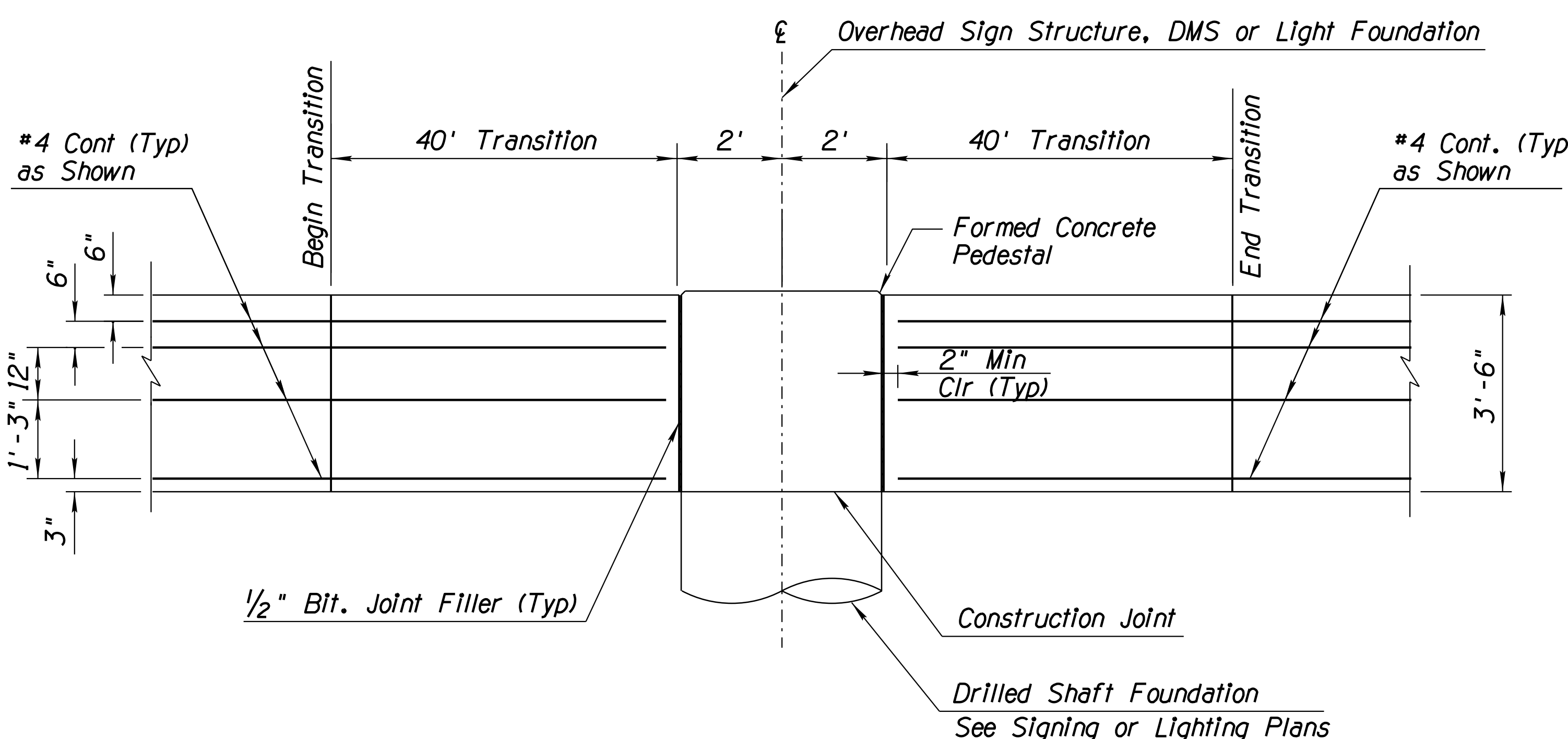
010 PM 252



**PLAN**  
No Scale  
4 ft Shaft Condition



**PLAN**  
No Scale  
3 ft Shaft Condition



**ELEVATION**  
4 Ft Shaft Shown  
3 Ft Shaft Condition Similar  
No Scale

**NOTES:**

1. Construction Specifications - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition 2008.
2. Design Specifications - AASHTO LRFD Design Specifications, 7th Edition, with 2015 and 2016 Interim Revisions.  
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th Edition, 2013.
3. Concrete shall be Class 'S' with a 28 day compressive strength,  $f'_c = 3,500$  psi.
4. Reinforcing steel shall conform to ASTM Specification A615. All reinforcing steel shall be furnished as Grade 60.
5. Median Barrier Transition shall be constructed by the formed cast-in-place method.
6. In no case shall the width of barrier exceed the width of the barrier footing or overhang the adjacent pavement.
7. Provide 2'-0" minimum lap of rebar from Section A to Section B, if required.
8. Refer to the project lighting or signing sheets for additional information.
9. Refer to ADOT Std Dtl C-10.41 for additional information.
10. This work is being paid under Item No. 9100113, Concrete Barrier Transition (Detail F) (Each).

**DETAIL F**  
Sheet 1 of 2

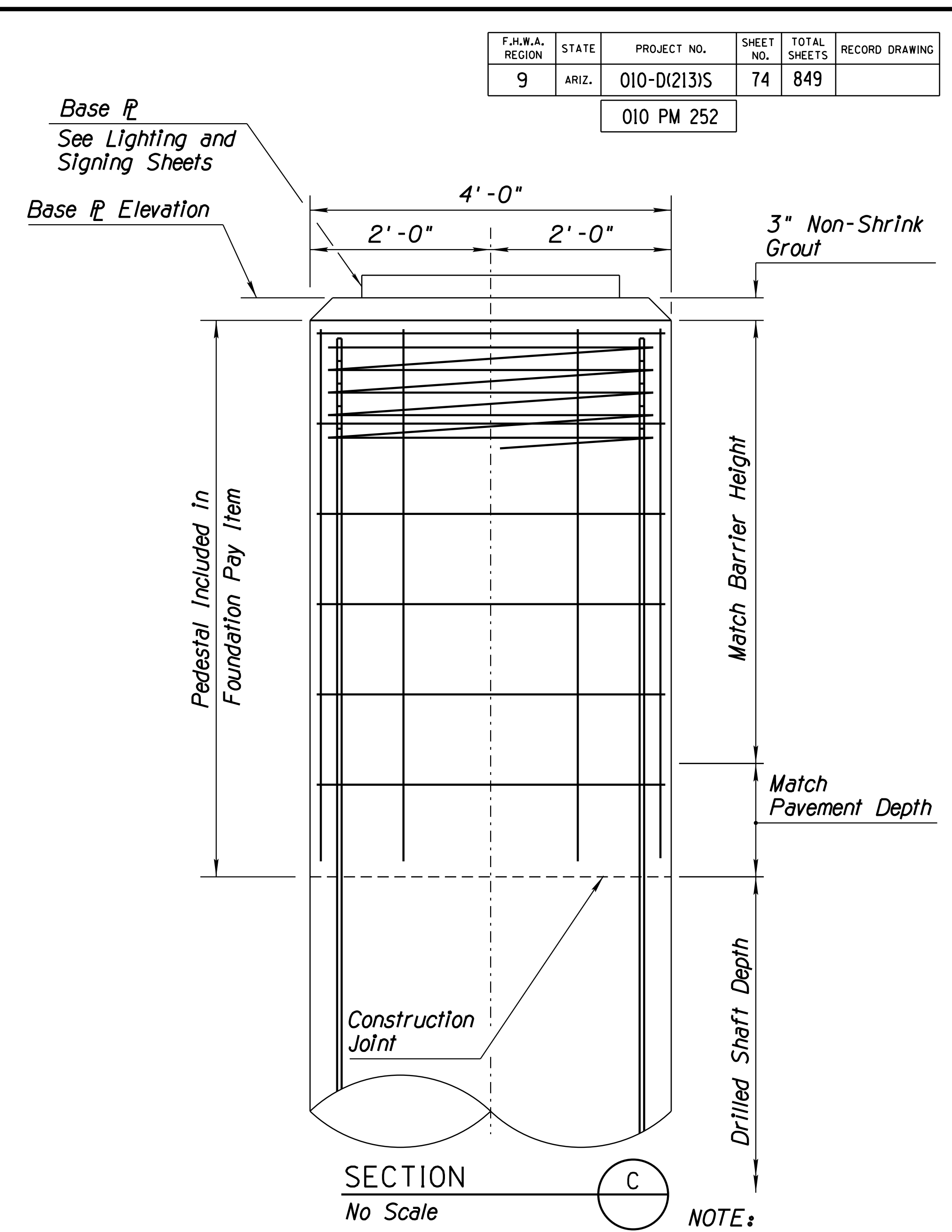
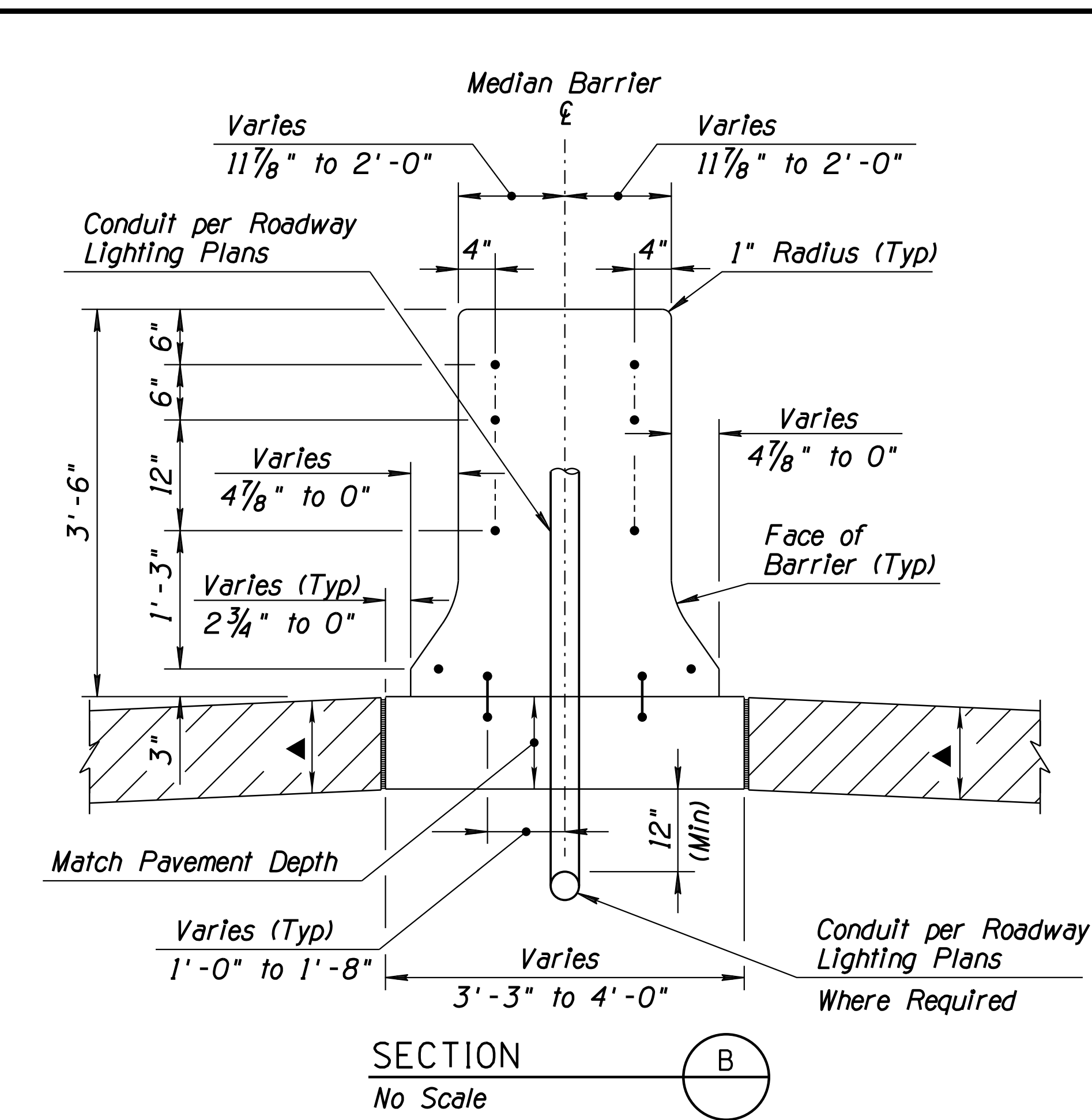
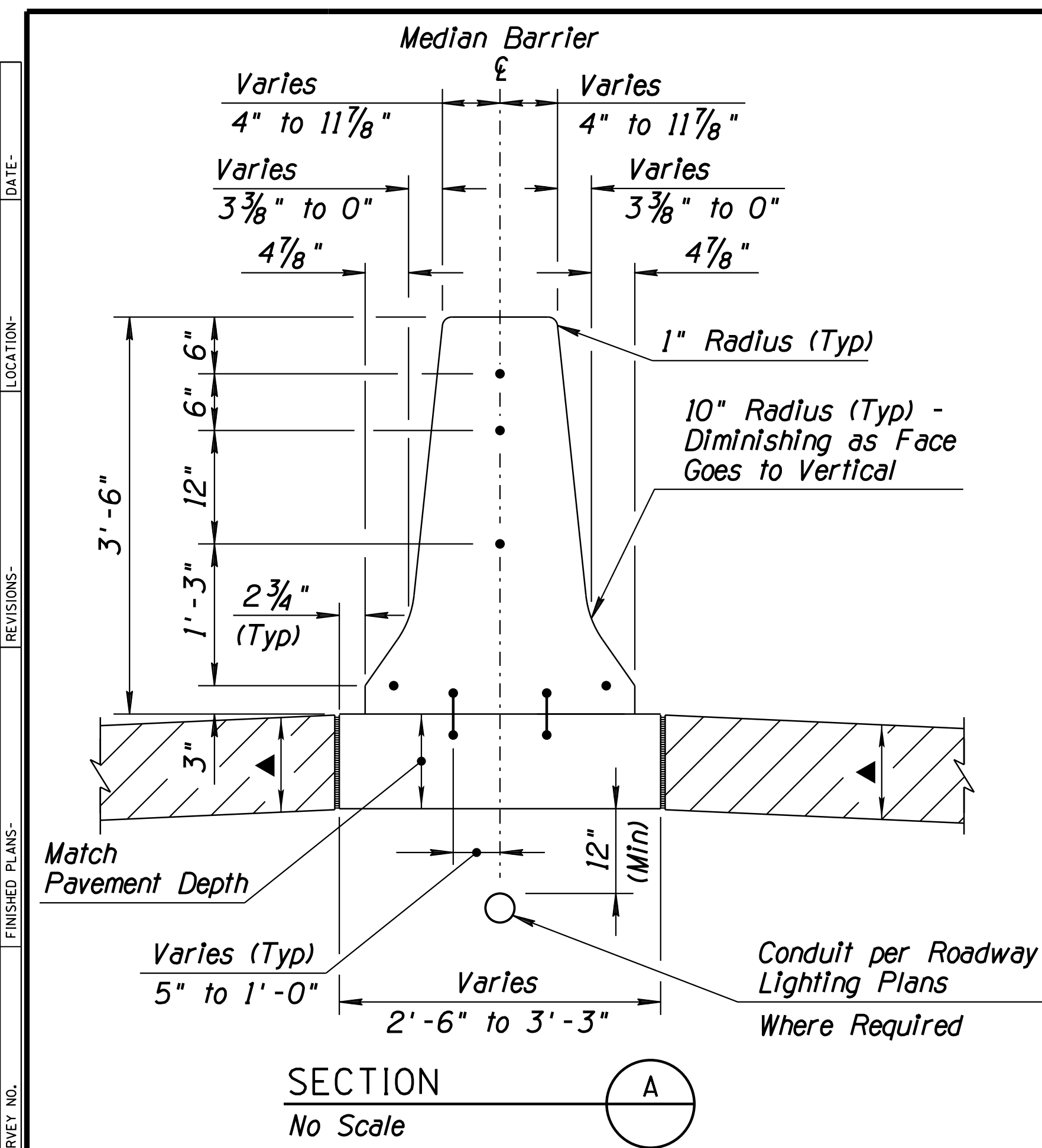
**CONCRETE BARRIER TRANSITION  
AT OVERHEAD SIGN/LIGHT POLE FOUNDATION**

DESIGN	JC	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. G-12.10 OF

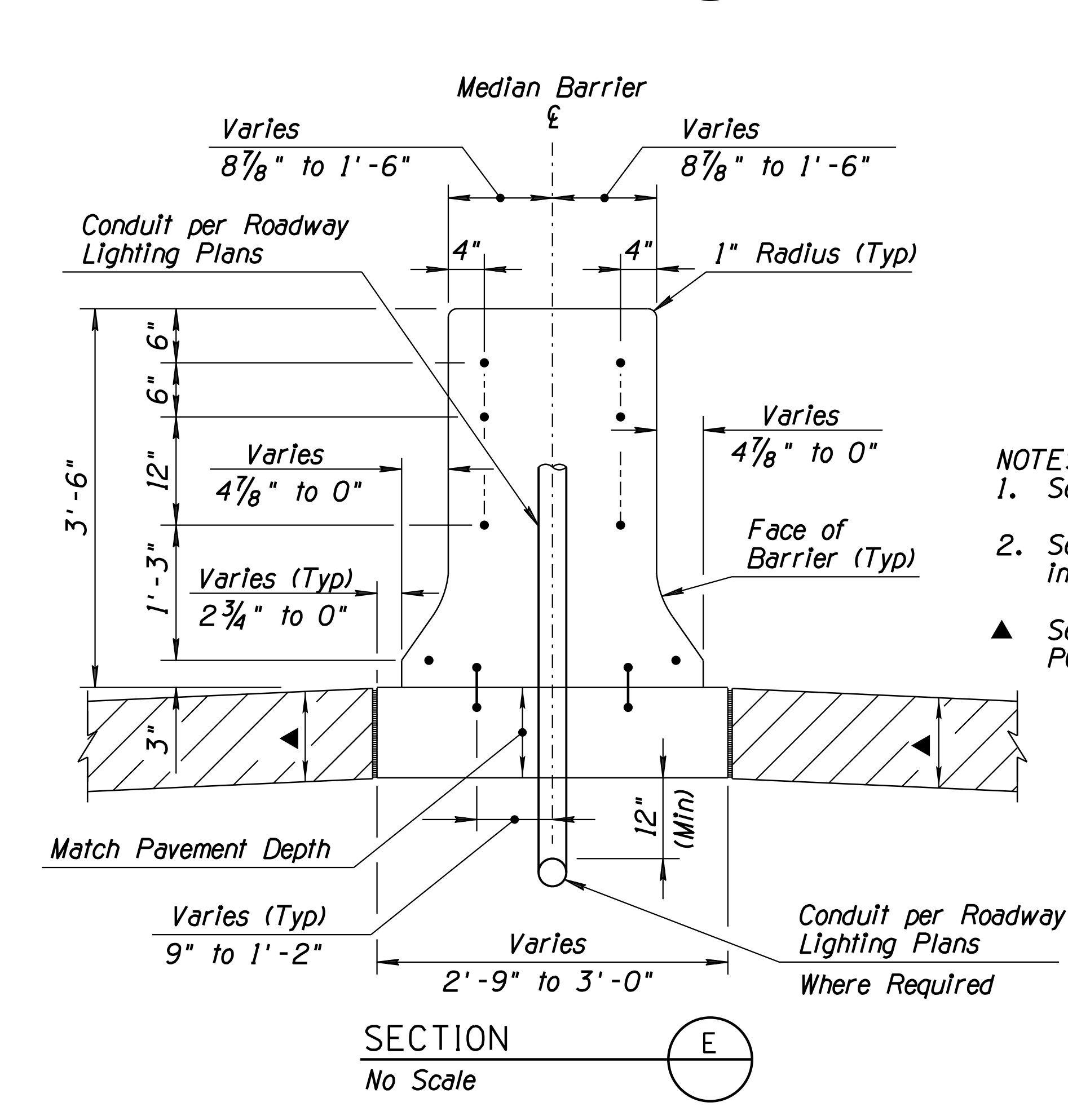
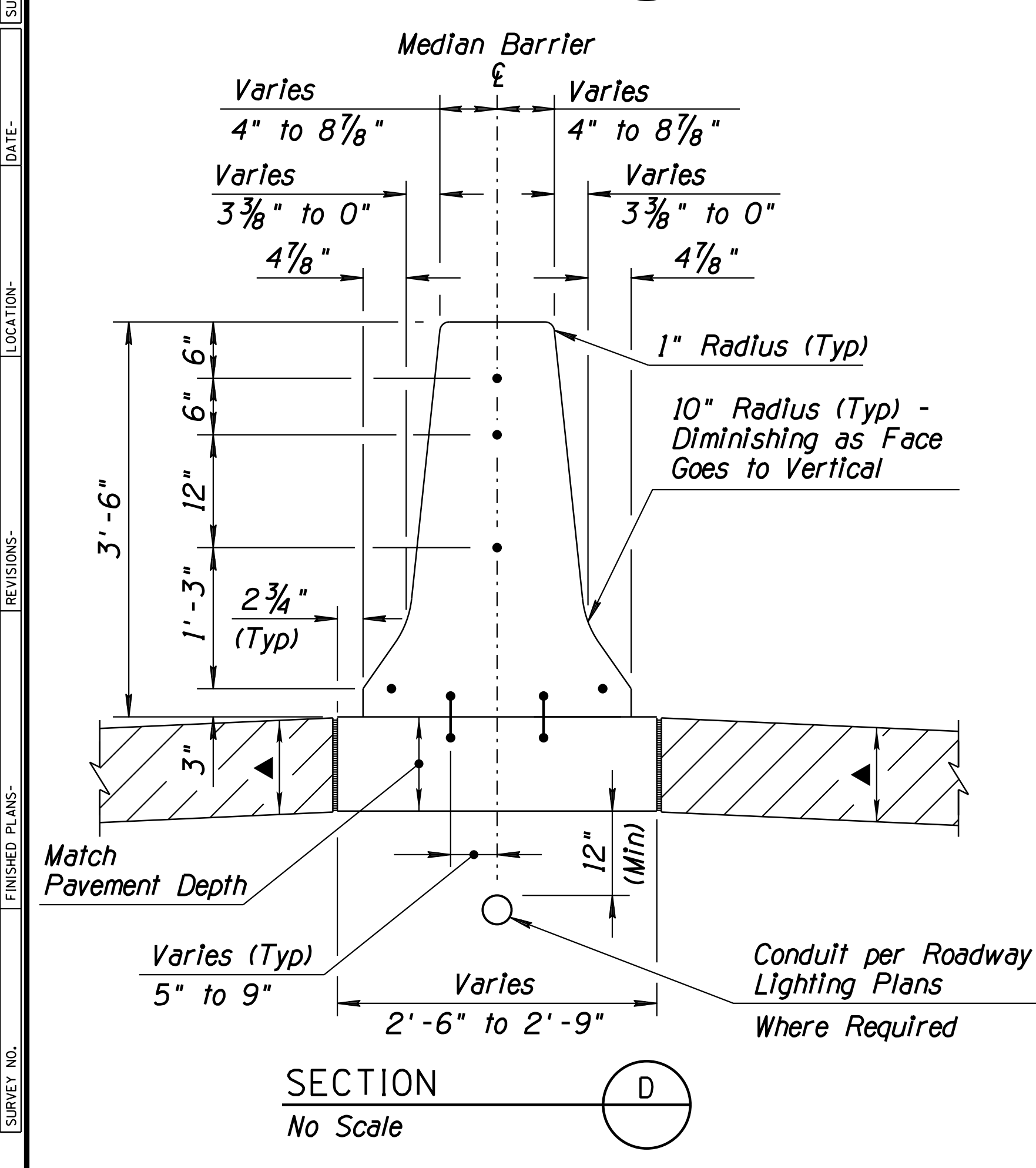


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	74	849	

010 PM 252



NOTE:  
For information not shown, see Lighting or Signing sheets.

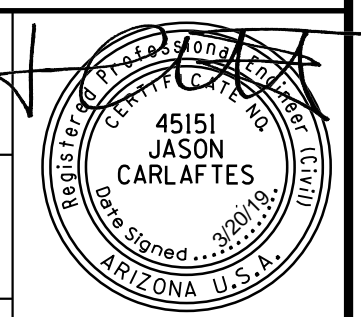


- NOTES:
- See Dwg No. G-12.10 for Notes and Details.
  - See the Lighting and Signing Sheets for additional information not shown.
- ▲ See Typical and Pavement Structural Sections for PCCP Thickness.

# DETAIL F

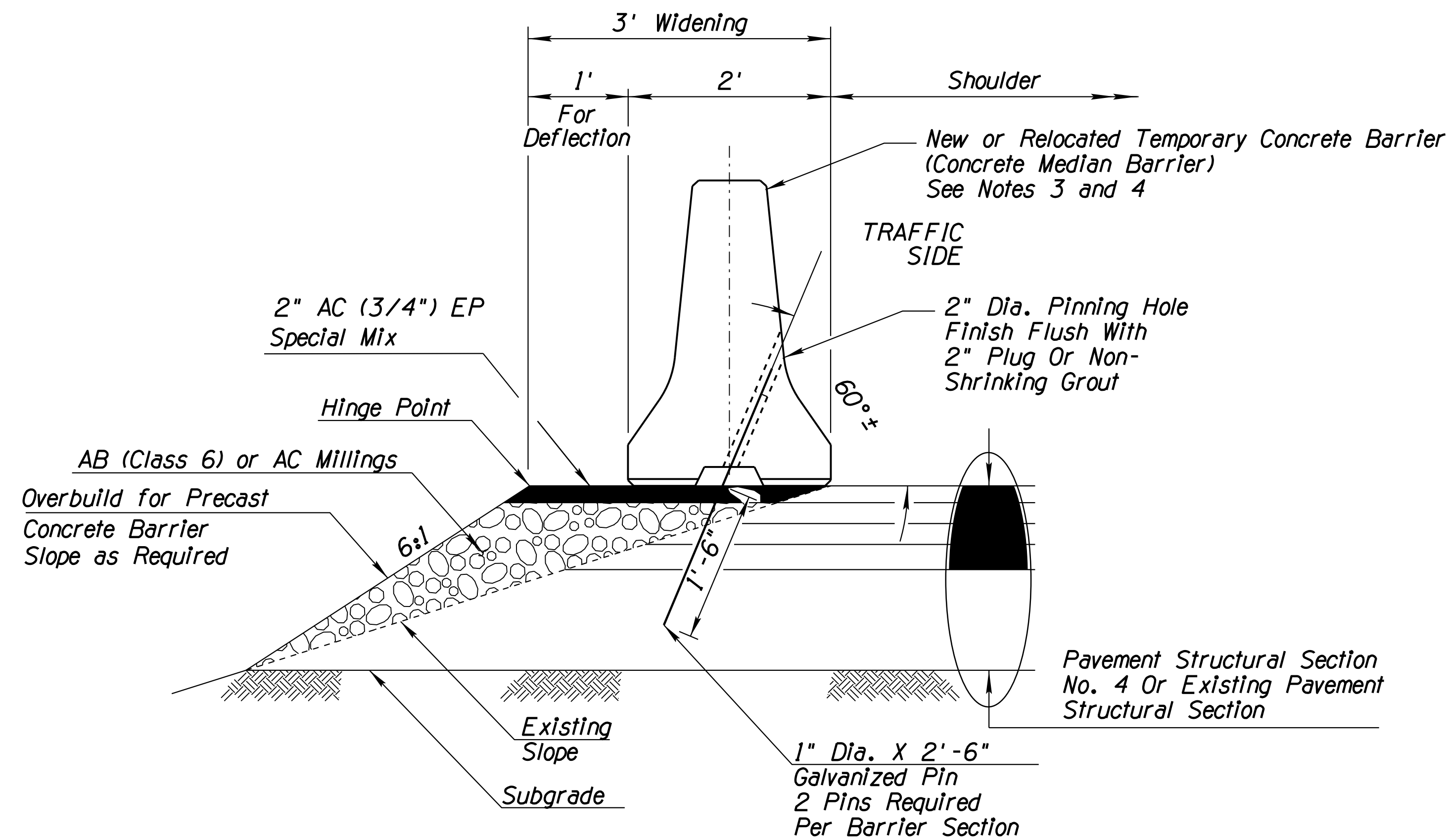
Sheet 2 of 2  
CONCRETE BARRIER TRANSITION  
AT OVERHEAD SIGN/  
LIGHT POLE FOUNDATION

DESIGN	JC	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
ROUTE		LOCATION		DETAIL SHEET DETAIL F
I-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. G-12.11



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	75	849	

010 PM 252



**PINNING CONCRETE BARRIER TO ROADWAY DETAIL**

(REQUIRED FOR ALL TEMPORARY CONCRETE BARRIER)

**GENERAL NOTES:**

1. For additional information on pin and loop assembly, see ADOT Traffic Standard Detail C-3 and Detail W.
2. For additional information on locations, See Detail W.
3. Temporary Concrete barrier (Detail G) shall be paid for per linear foot, complete in place, under Bid Item Number 9100009.
4. Existing Temporary Concrete Barrier to be relocated is paid under Item No. 9100012 - Concrete Barrier (Temporary, Relocate).
5. Overbuild materials and pavement for the placement of the Temporary Concrete Barrier is included in the cost of Concrete Barrier (Detail G).
6. Approximate 225 tons of AC (3/4") EP (Special Mix) are needed for the placement of the Concrete Barrier.

# DETAIL G

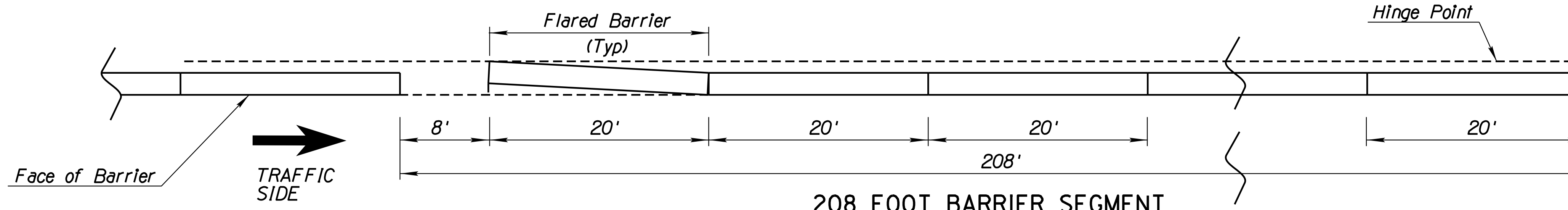
PRECAST CONCRETE BARRIER PINNING

Sheet 1 of 2

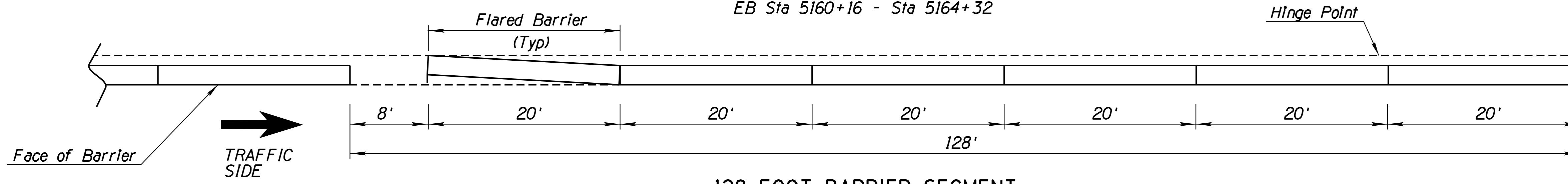
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>DETAIL SHEET DETAIL G</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-12.12 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	76	849	

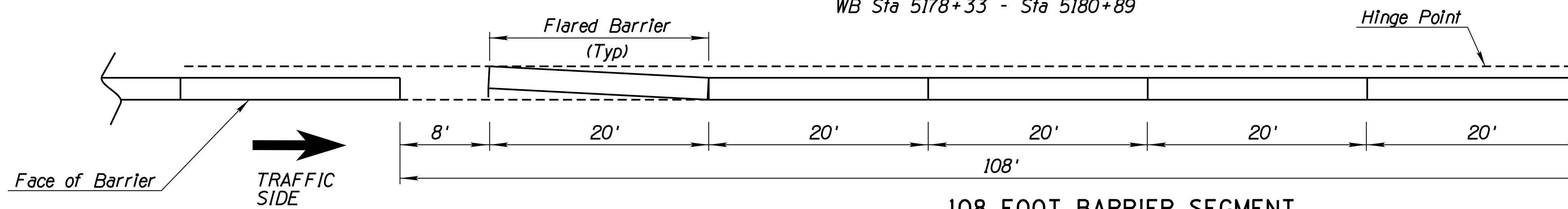
010 PM 252



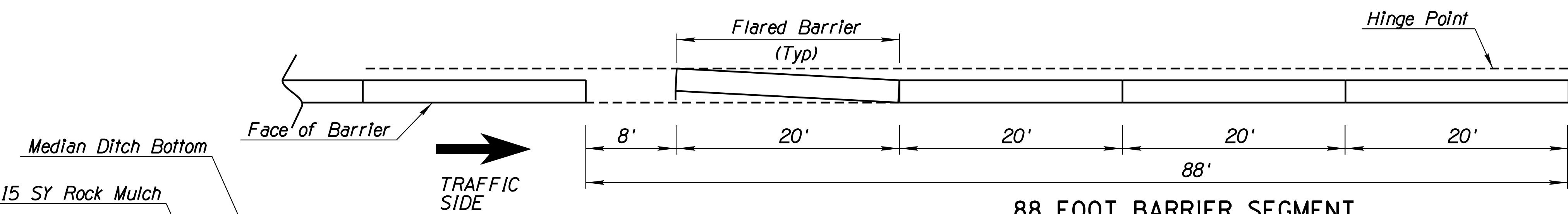
**208 FOOT BARRIER SEGMENT**  
EB Sta 5160+16 - Sta 5164+32



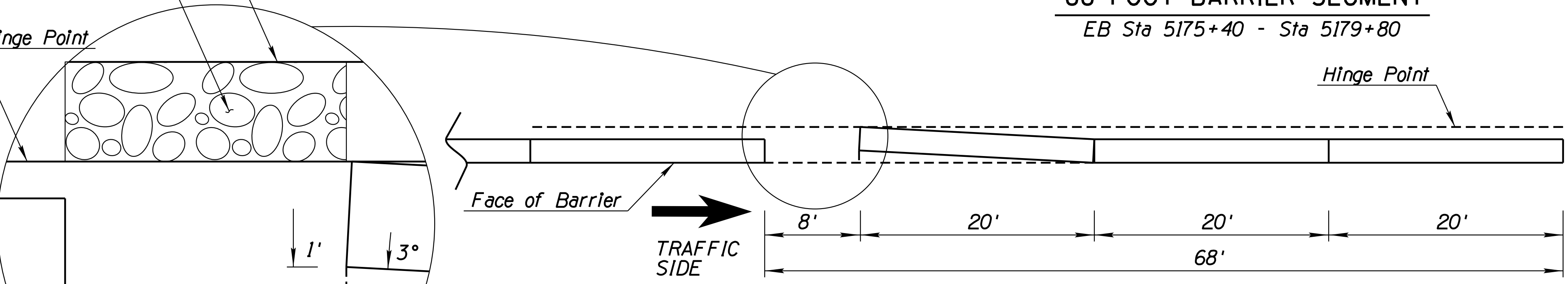
**128 FOOT BARRIER SEGMENT**  
WB Sta 5163+61 - Sta 5167+45  
WB Sta 5168+09 - Sta 5173+21  
WB Sta 5178+33 - Sta 5180+89



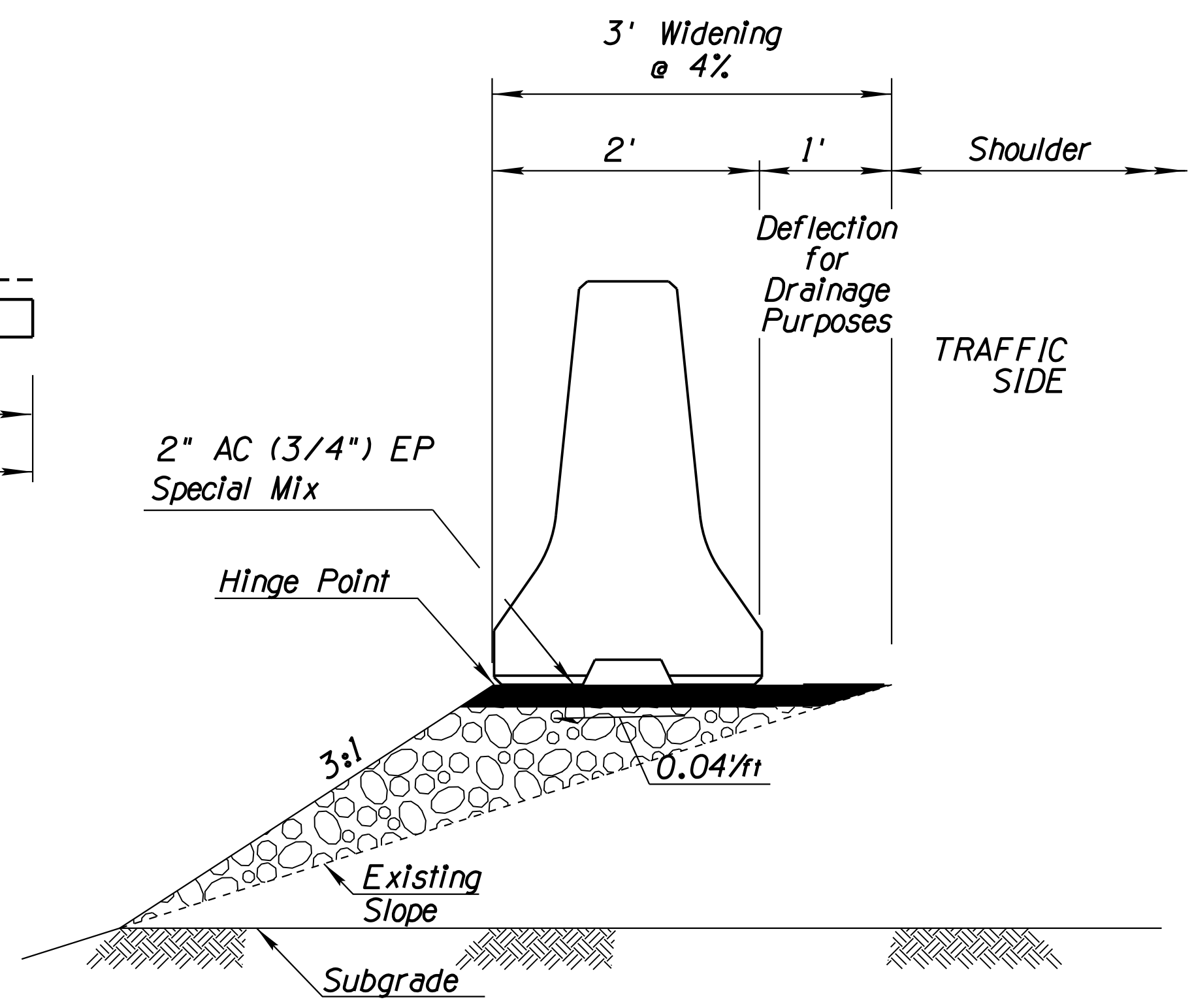
**108 FOOT BARRIER SEGMENT**  
EB Sta 5155+84 - Sta 5160+16  
EB Sta 5164+32 - Sta 5166+48  
EB Sta 5167+84 - Sta 5175+40



**88 FOOT BARRIER SEGMENT**  
EB Sta 5175+40 - Sta 5179+80



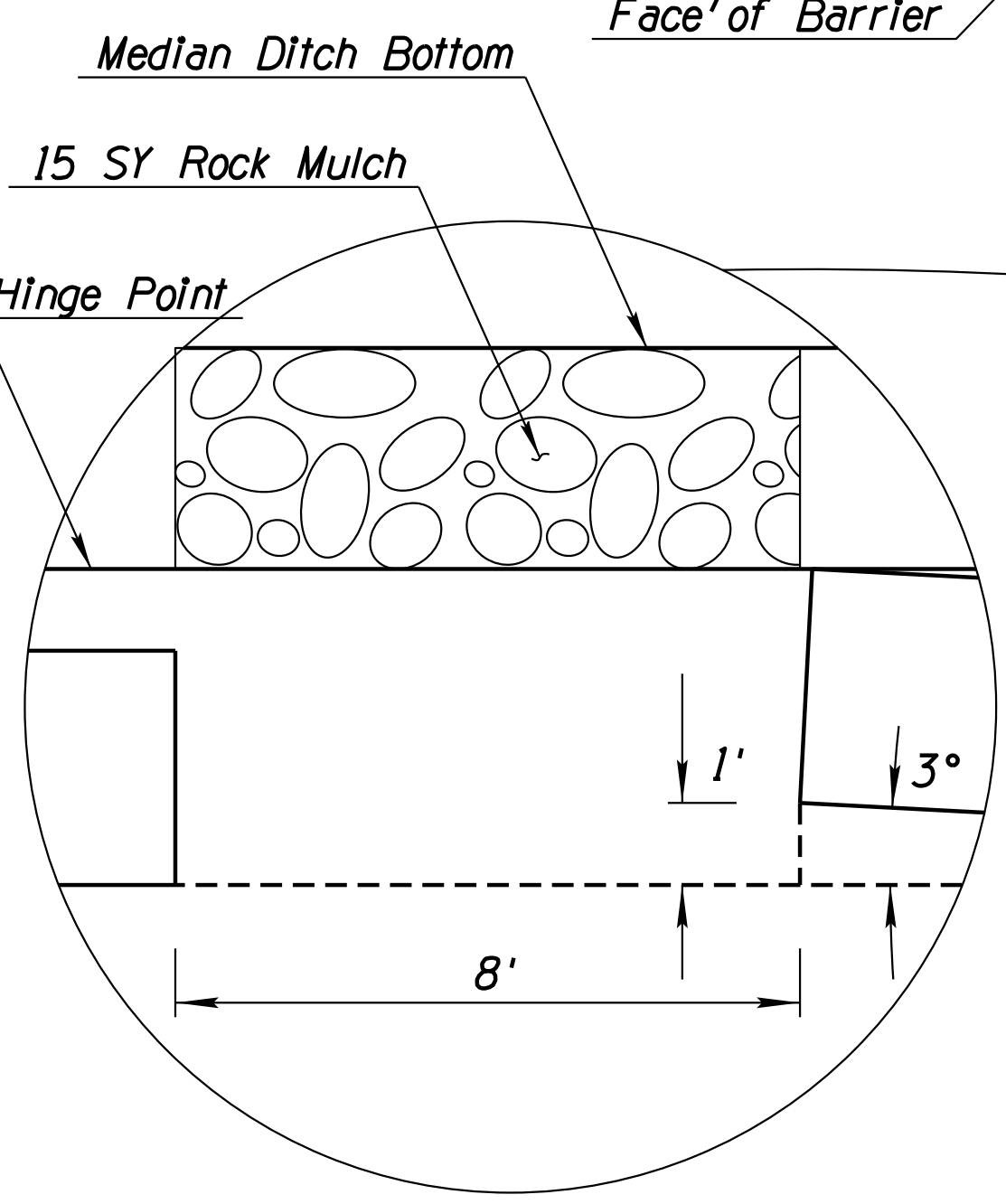
**68 FOOT BARRIER SEGMENT**  
EB Sta 5166+88 - Sta 5168+92  
WB Sta 5167+45 - Sta 5168+13



**FLARED CONCRETE BARRIER TO DETAIL**

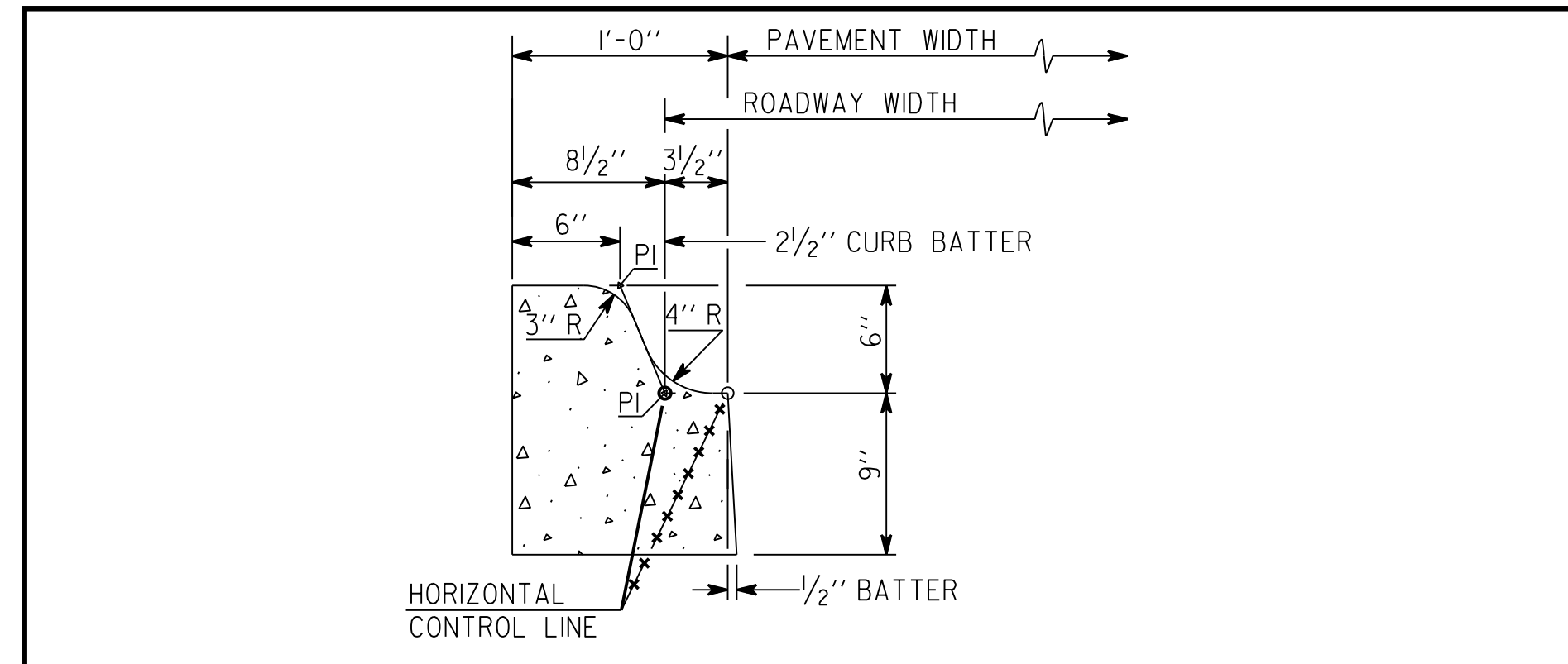
# DETAIL G

**CONCRETE BARRIER GAP**  
Sheet 2 of 2

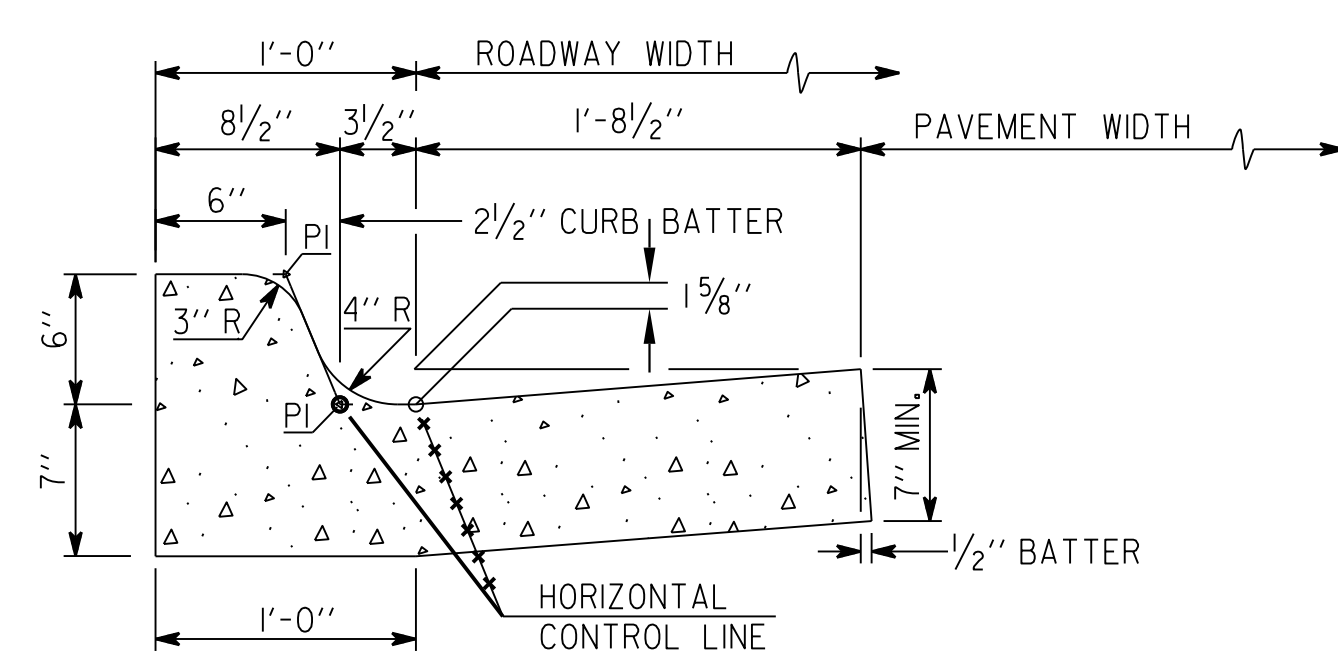


DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
ROUTE		LOCATION		DETAIL SHEET DETAIL G	
1-10		RUTHRAUFF ROAD TI		EXPIRES 9/30/2021	
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. G-12.12A	

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



CONCRETE VERTICAL CURB-TYPE (I)



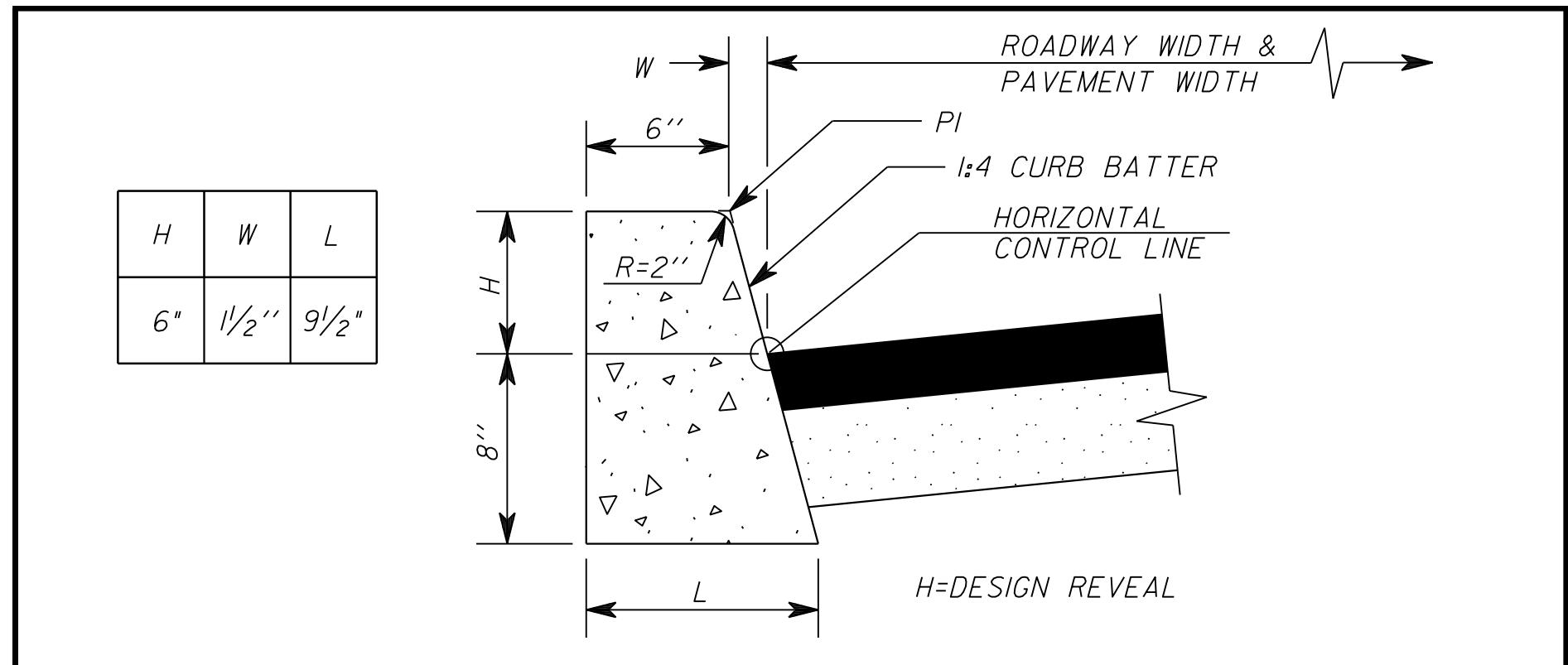
CONCRETE VERTICAL CURB AND GUTTER TYPE - 1(G)

NOT TO SCALE

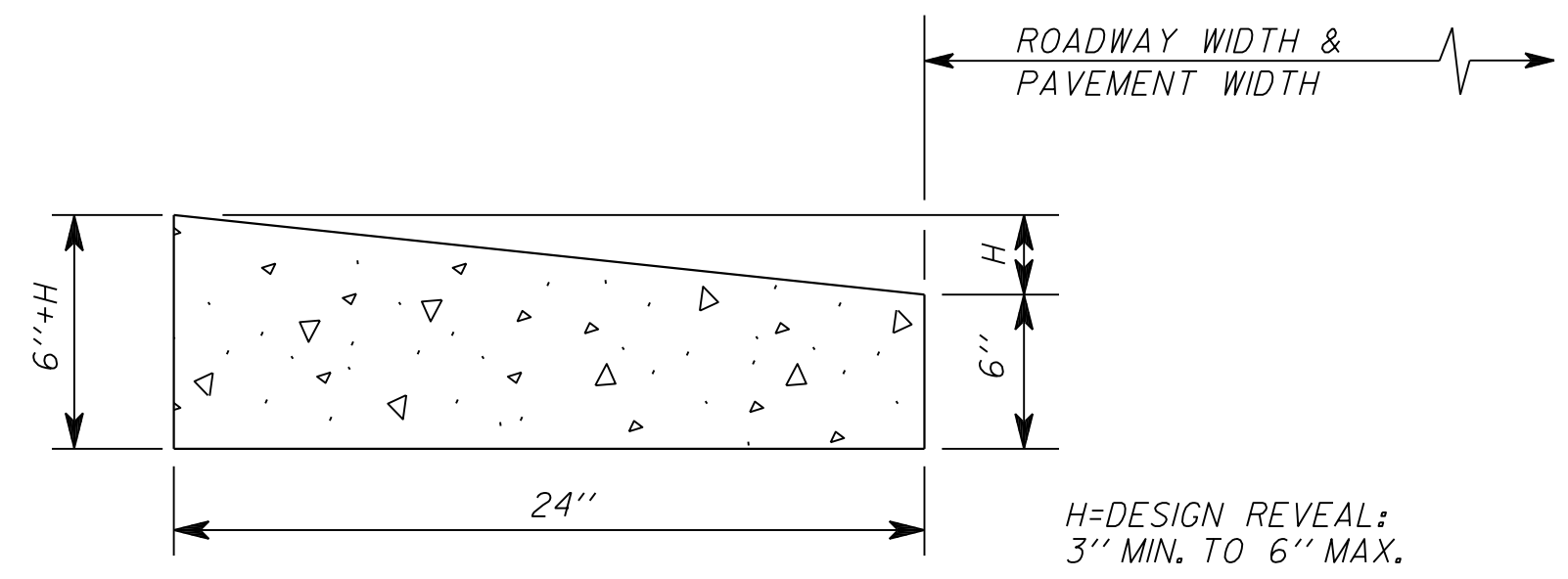
	DETAIL NO.	STANDARD DETAIL	ISSUED:
	209	CONCRETE CURB	10/88
	SHEET 1 of 3		REVISIED: 11/13

NOTES:

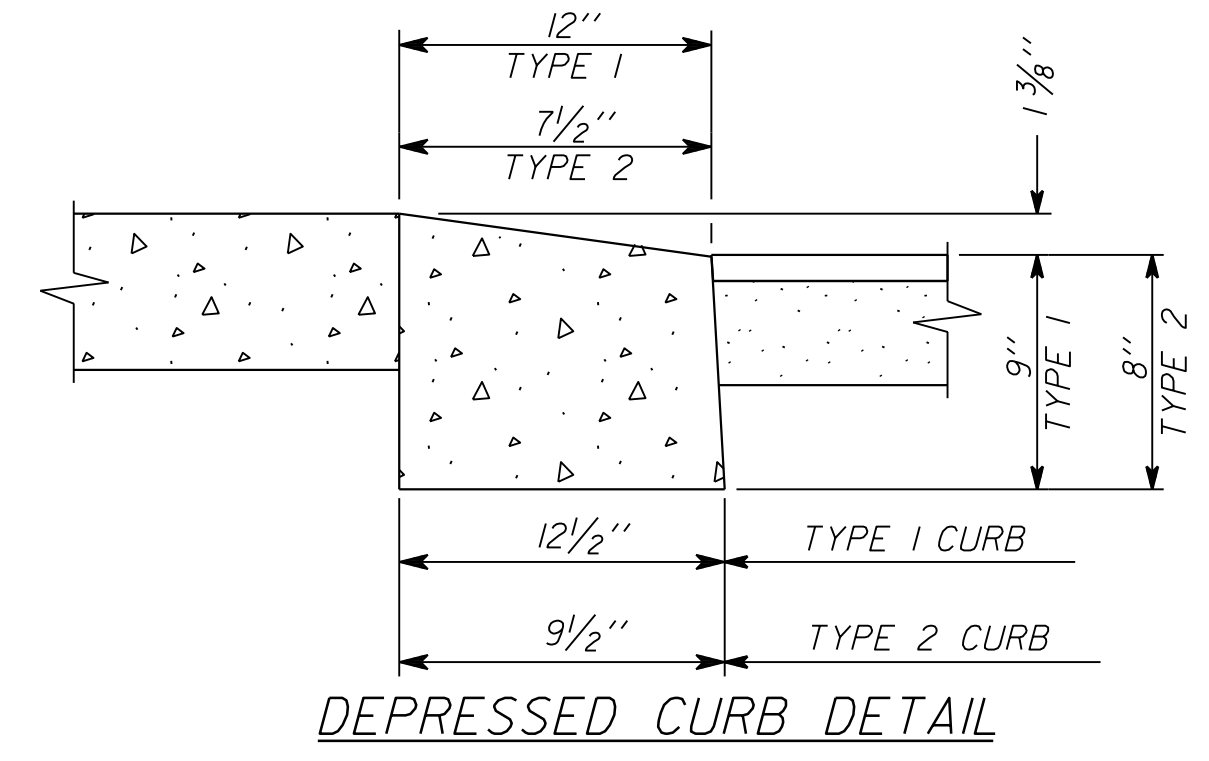
- All concrete curbs and transitions shall be Class 2 concrete.
- Maximum spacing on scored joints shall be 10 feet.
- One half inch thick expansion joints shall be located at tangent points in curb returns, transitions, and at a maximum of 40 foot intervals. Expansion material shall also be placed between curbs and adjacent structures, sidewalks, driveways and handicap ramps. The 1/2 inch joint filler shall extend to the full depth of the concrete.
- Concrete shall be finished with a steel trowel followed by brushing with a fine brush along the length of the curb or curb and gutter.
- All flow lines of concrete gutters shall be troweled to an accurate grade.
- When the slope of the pavement is away from the curb and gutter the slope of the gutter shall match the pavement cross slope.
- The height of the wedge curb shall be determined by the drainage containment required.
- Single curb and curb and gutter may be constructed by the use of forms or may be slip formed.
- All exposed edges and hand tooled joints shall be finished with a tool having a 1/4 inch radius unless a larger radius is indicated by the applicable standard detail or project plans.



CONCRETE VERTICAL CURB-TYPE 2



CONCRETE WEDGE CURB



DEPRESSED CURB DETAIL

NOT TO SCALE

	DETAIL NO.	STANDARD DETAIL	ISSUED:
	209	CONCRETE CURB	10/88
	SHEET 2 of 3		REVISIED: 12/13

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	77	849	

010 PM 252

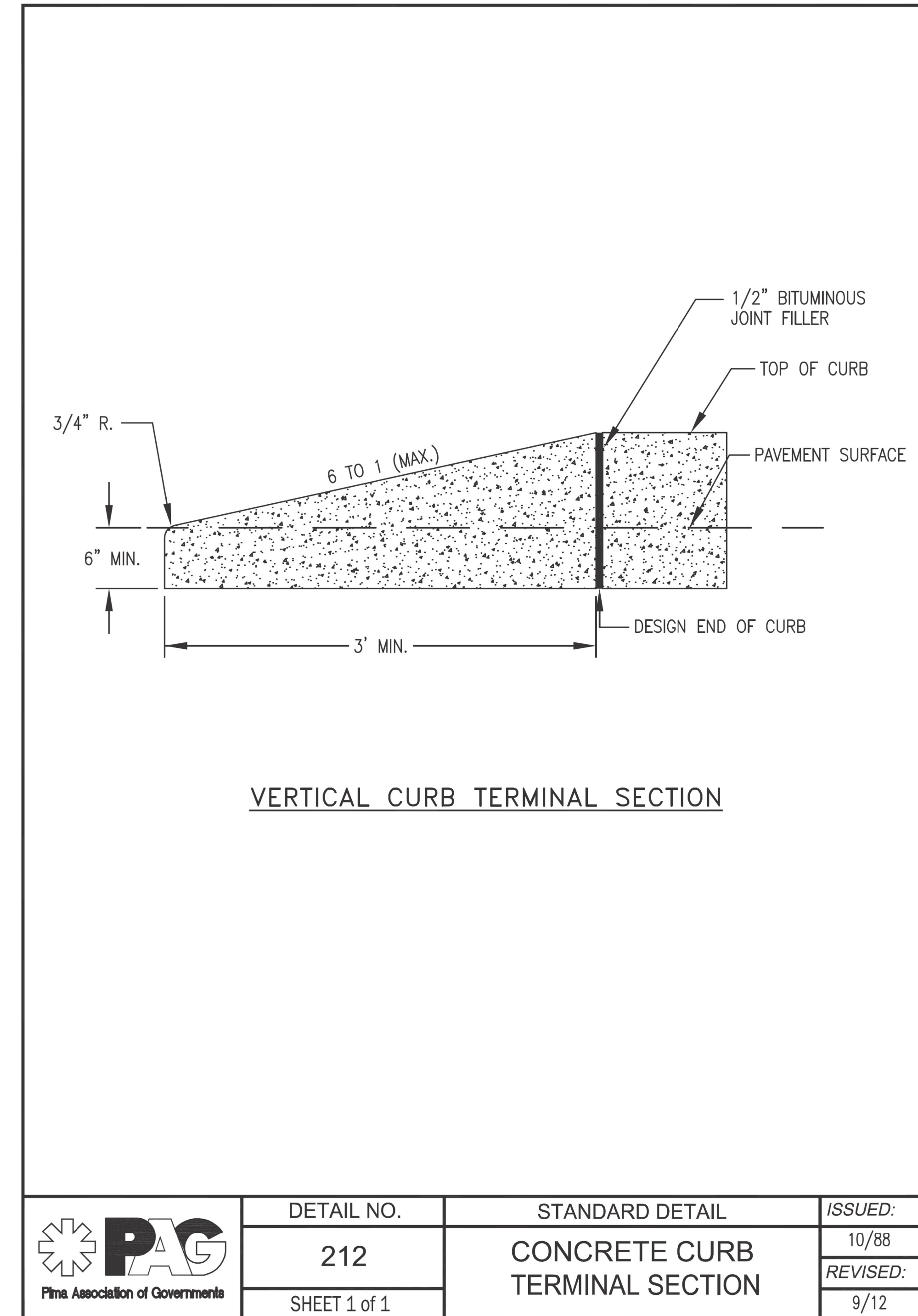
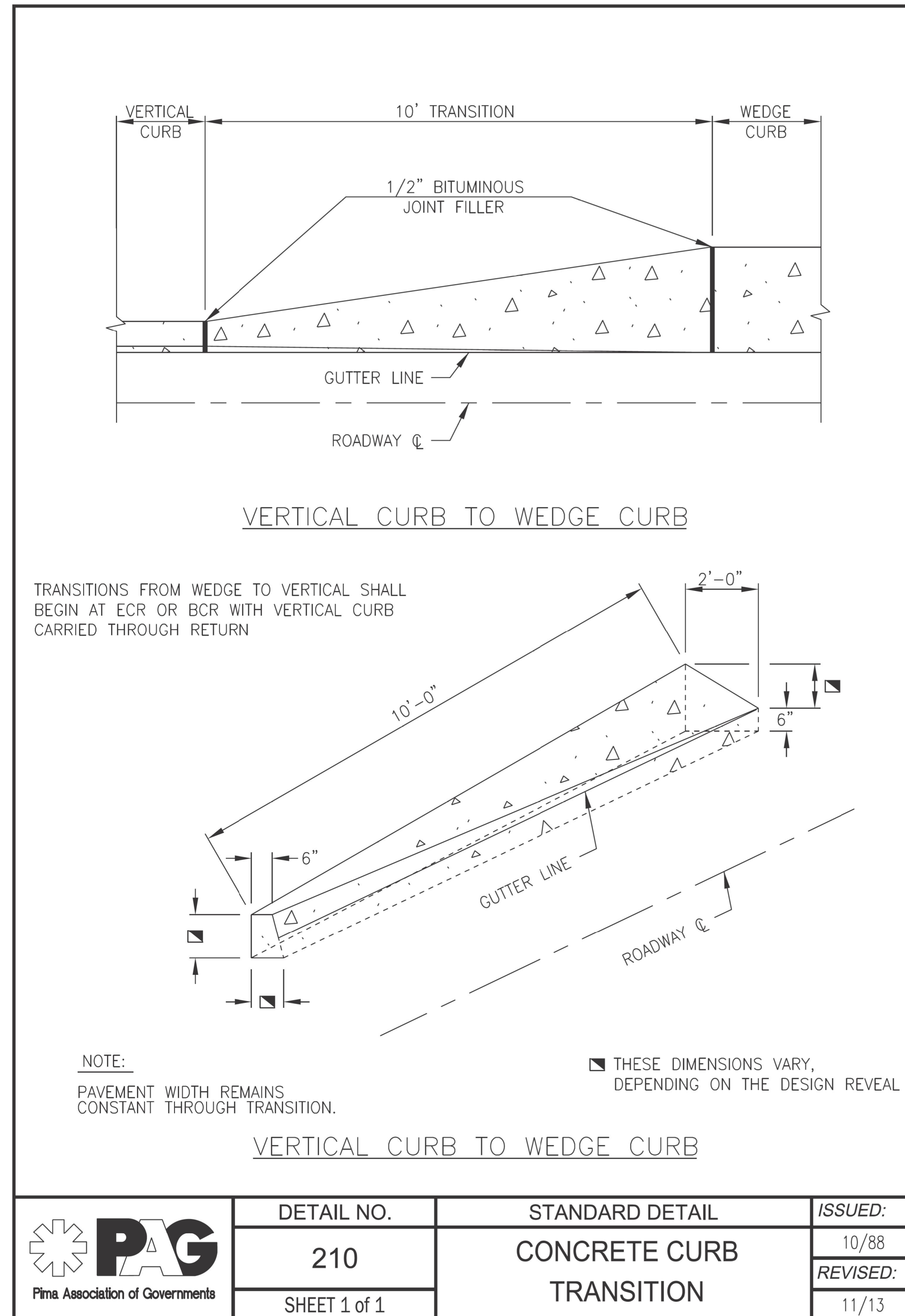
# DETAIL H

CONCRETE CURB  
PAG DTL 209

DESIGN	V. CASTANEDA	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		DETAIL H CONCRETE CURB PAG DTL 209	
ROUTE	1-10	LOCATION	RUTHRAUFF T1		
TRACS NO.	H8480 OIC			010-D(213)S	DWG NO. G-12.13

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	78	849	

010 PM 252



# DETAIL I

## CONCRETE CURB TRANSITION

### PAG DTL 210 & 212

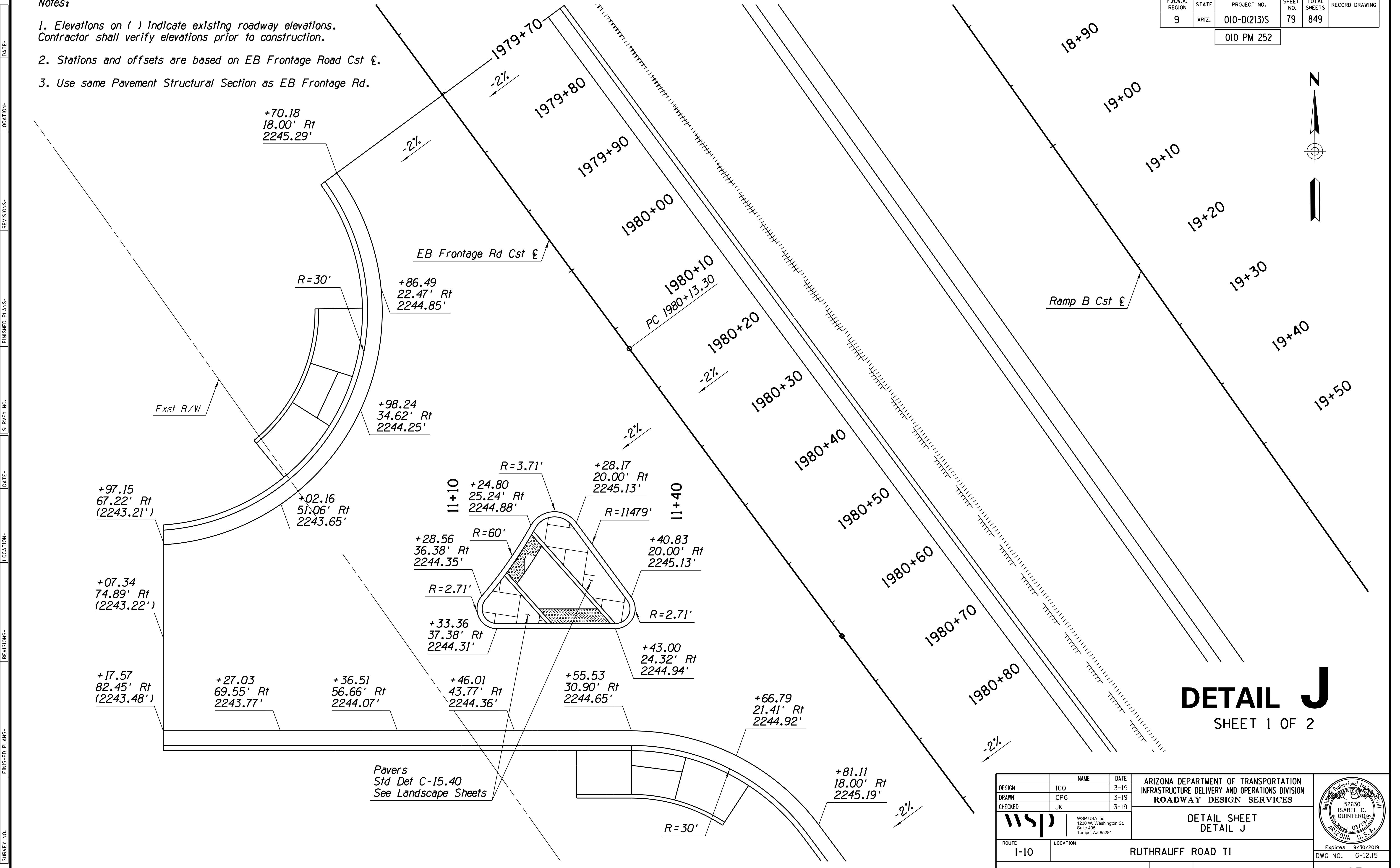
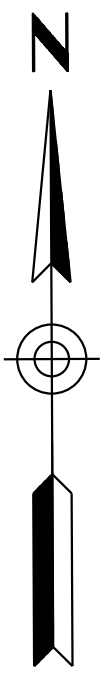
DESIGN	V. CASTANEDA	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		<b>DETAIL I</b> CONCRETE CURB TRANSITION PAG DTL 210 & 212			
ROUTE	1-10	LOCATION	RUTHRAUFF T1		
TRACS NO.	H8480 OIC		010-D(213)S		
					DWG NO. G-12.14
					OF

**Notes:**

1. Elevations on ( ) indicate existing roadway elevations. Contractor shall verify elevations prior to construction.
2. Stations and offsets are based on EB Frontage Road Cst £.
3. Use same Pavement Structural Section as EB Frontage Rd.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	79	849	

010 PM 252



# DETAIL J

SHEET 1 OF 2

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

+97.15  
67.22' Rt  
(2243.21')

+07.34  
74.89' Rt  
(2243.22')

+17.57  
82.45' Rt  
(2243.48')

+70.18  
18.00' Rt  
2245.29'

+86.49  
22.47' Rt  
2244.85'

+98.24  
34.62' Rt  
2244.25'

+02.16  
51.06' Rt  
2243.65'

+28.56  
36.38' Rt  
2244.35'

+33.36  
37.38' Rt  
2244.31'

+27.03  
69.55' Rt  
2243.77'

+36.51  
56.66' Rt  
2244.07'

+46.01  
43.77' Rt  
2244.36'

+55.53  
30.90' Rt  
2244.65'

+28.17  
20.00' Rt  
2245.13'

+40.83  
20.00' Rt  
2245.13'

+43.00  
24.32' Rt  
2244.94'

+66.79  
21.41' Rt  
2244.92'

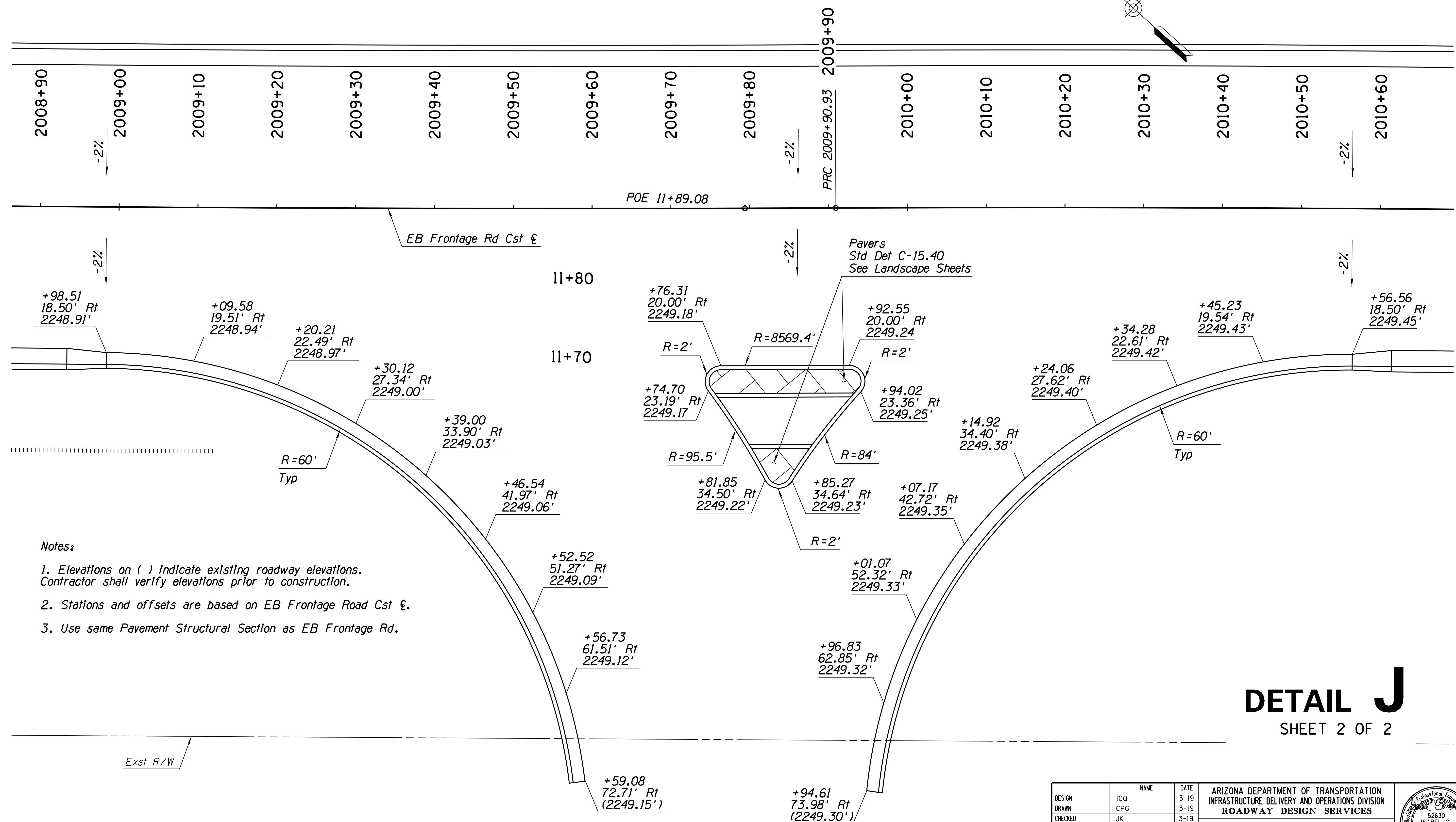
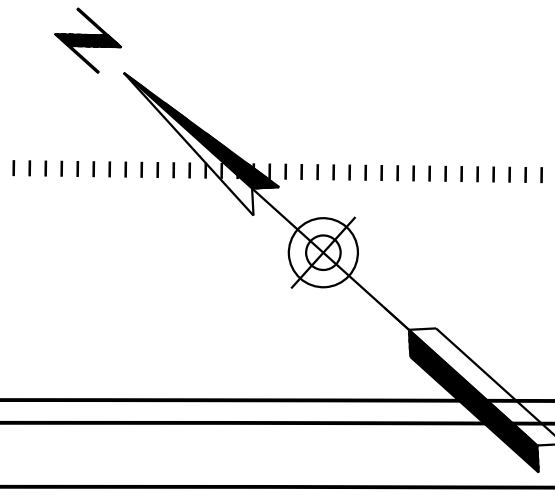
+81.11  
18.00' Rt  
2245.19'

Pavers  
Std Det C-15.40  
See Landscape Sheets

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DESIGN	ICO	3-19	
DRAWN	CPG	3-19	
CHECKED	JK	3-19	<b>DETAIL SHEET DETAIL J</b>
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			
ROUTE	LOCATION	ARIZONA PROFESSIONAL ENGINEER 52630 ISABEL C. GUINTERO 03/19/2019 ARIZONA U.S.A. Expires 9/30/2019 DWG NO. G-12.15	
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	
		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	80	849	

010 PM 252



- Notes:**
- Elevations on ( ) indicate existing roadway elevations. Contractor shall verify elevations prior to construction.
  - Stations and offsets are based on EB Frontage Road Cst £.
  - Use same Pavement Structural Section as EB Frontage Rd.

# DETAIL J

SHEET 2 OF 2

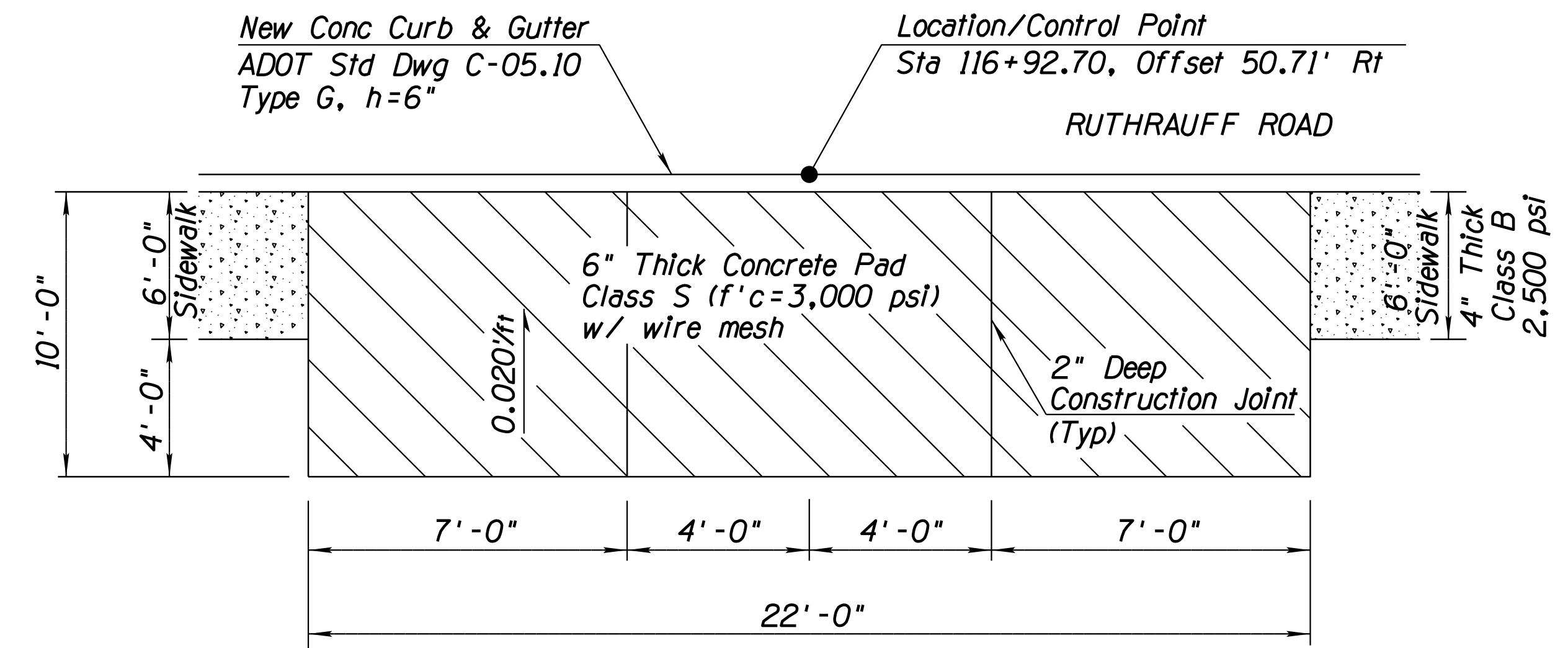
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DETAIL SHEET DETAIL J	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					Expires 9/30/2019 DWG NO. G-12.16 OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	82	849	

010 PM 252



**NOTES:**

1. Concrete Bus Shelter Pad shall be paid under Bid Item No. 9080602 Concrete Bus Shelter Pad (Detail L) and measured by the square foot.
2. Concrete Bus Shelter Pads are noted within the curb summary tables.
3. Existing Bus Shelter and Bench shall be removed from Davis Avenue (approximate Sta 17+70 Rt), and relocated to Sta 116+92.70 Rt, Ruthrauff Road.
4. Anchor bolts shall be used to install the bus shelter per manufacturer specifications.

# DETAIL L

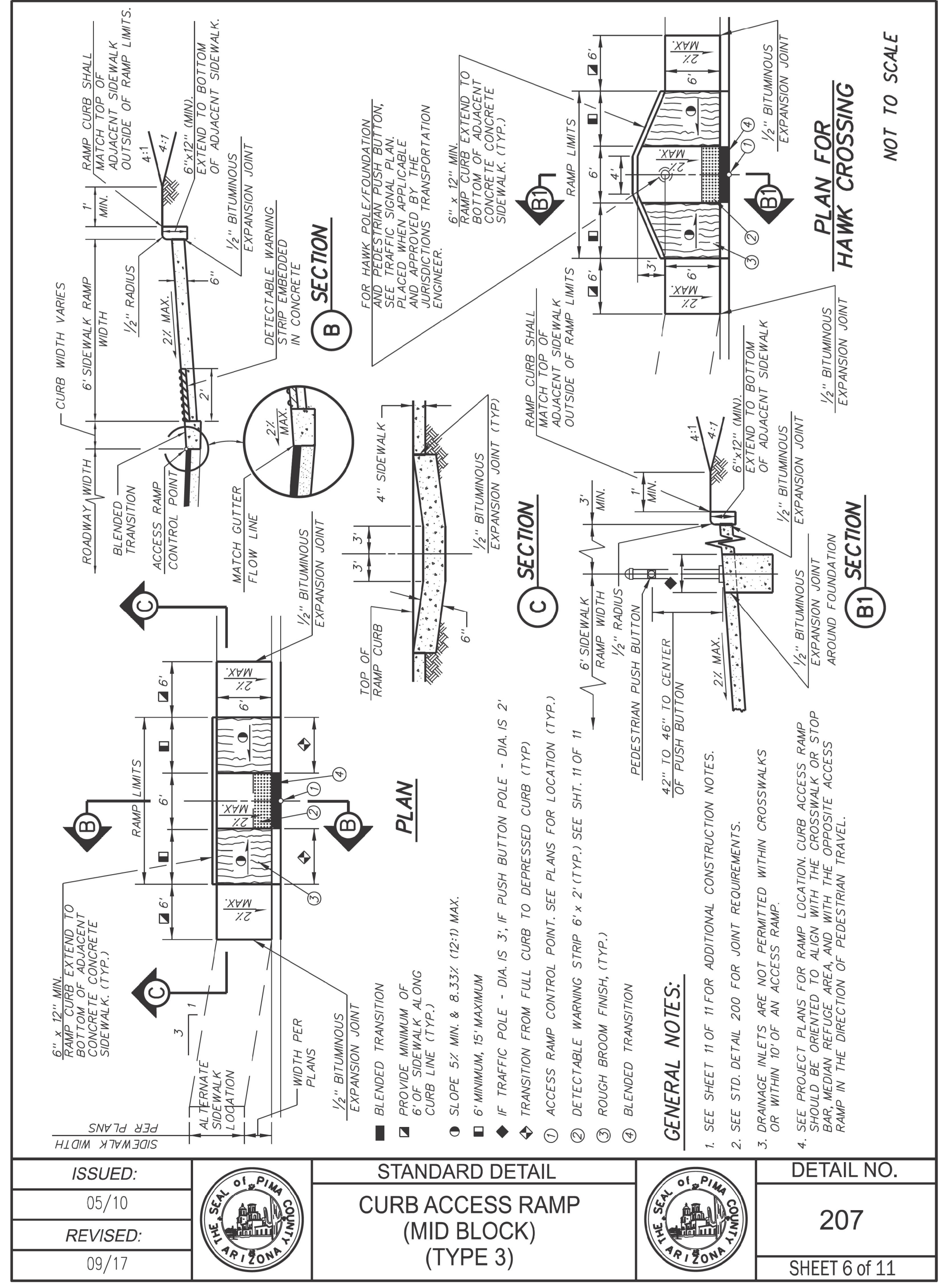
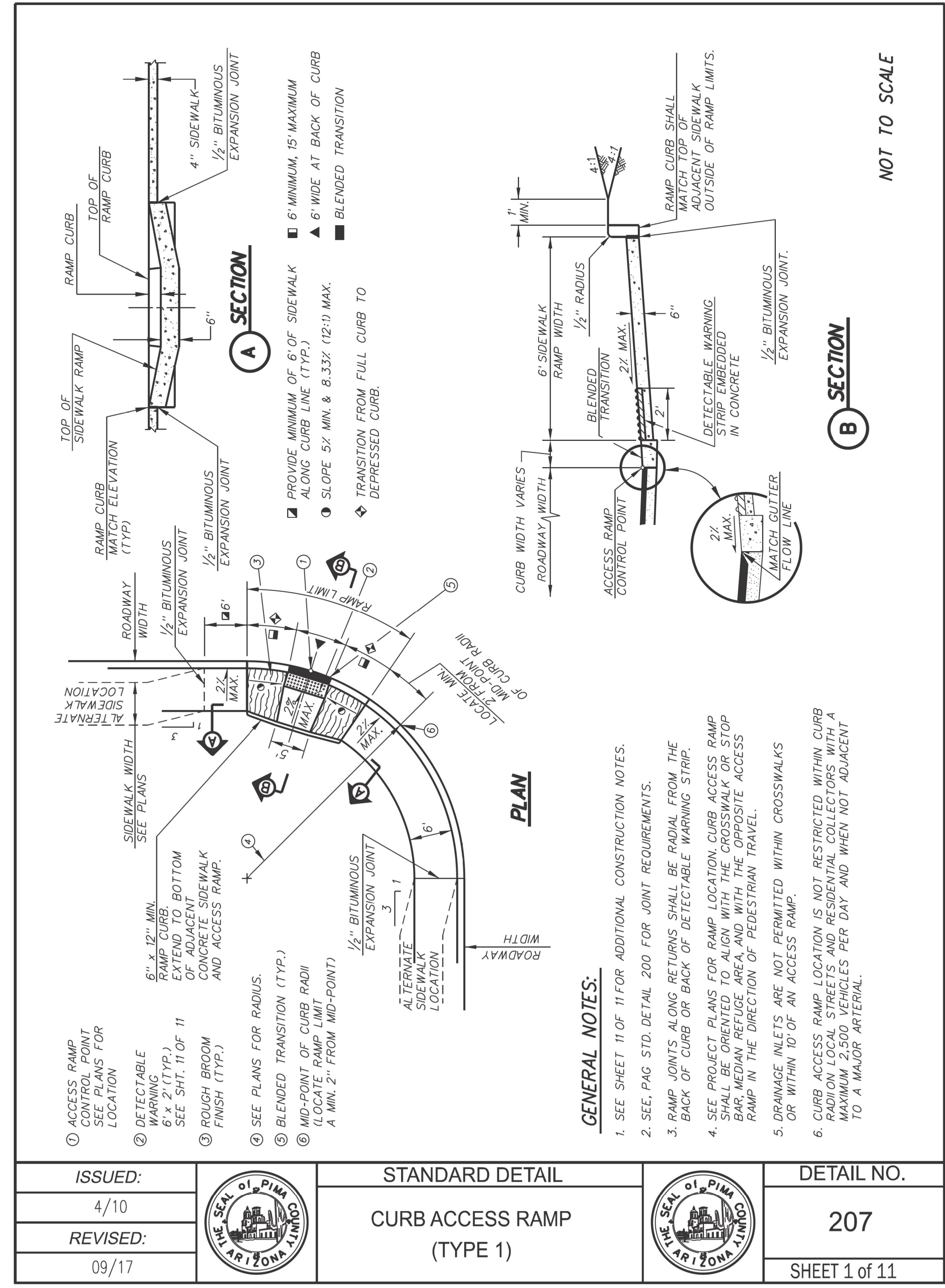
## CONCRETE BUS SHELTER PAD

DESIGN	V. CASTANEDA	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	3-19		
CHECKED	A. HATHCOCK	3-19		
<b>Kimley»Horn</b>		DETAIL L CONCRETE BUS SHELTER PAD		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. G-12.18 OF

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	83	849	

010 PM 252



# DETAIL M

## CURB ACCESS RAMP, TYPE 1 & 3

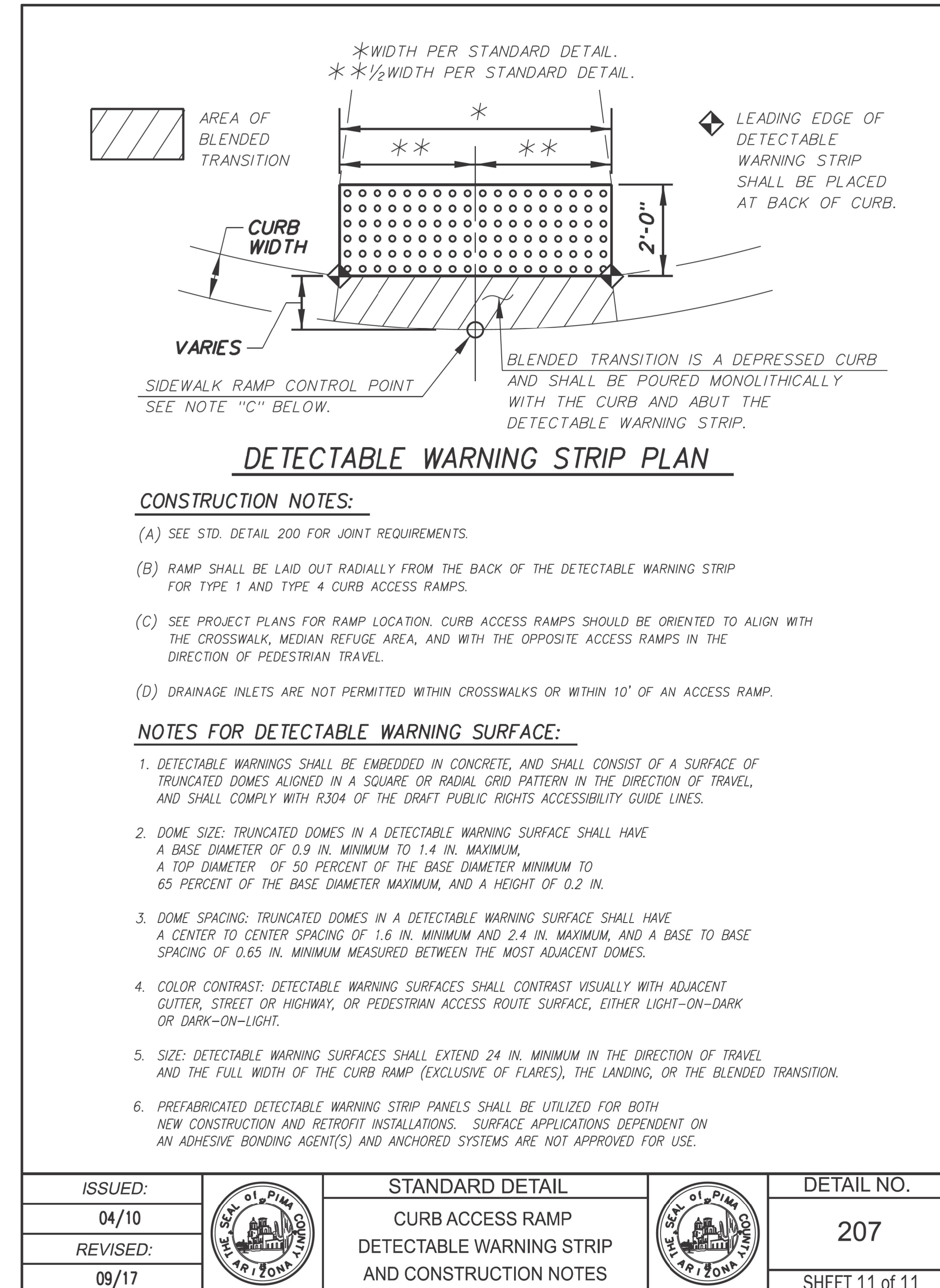
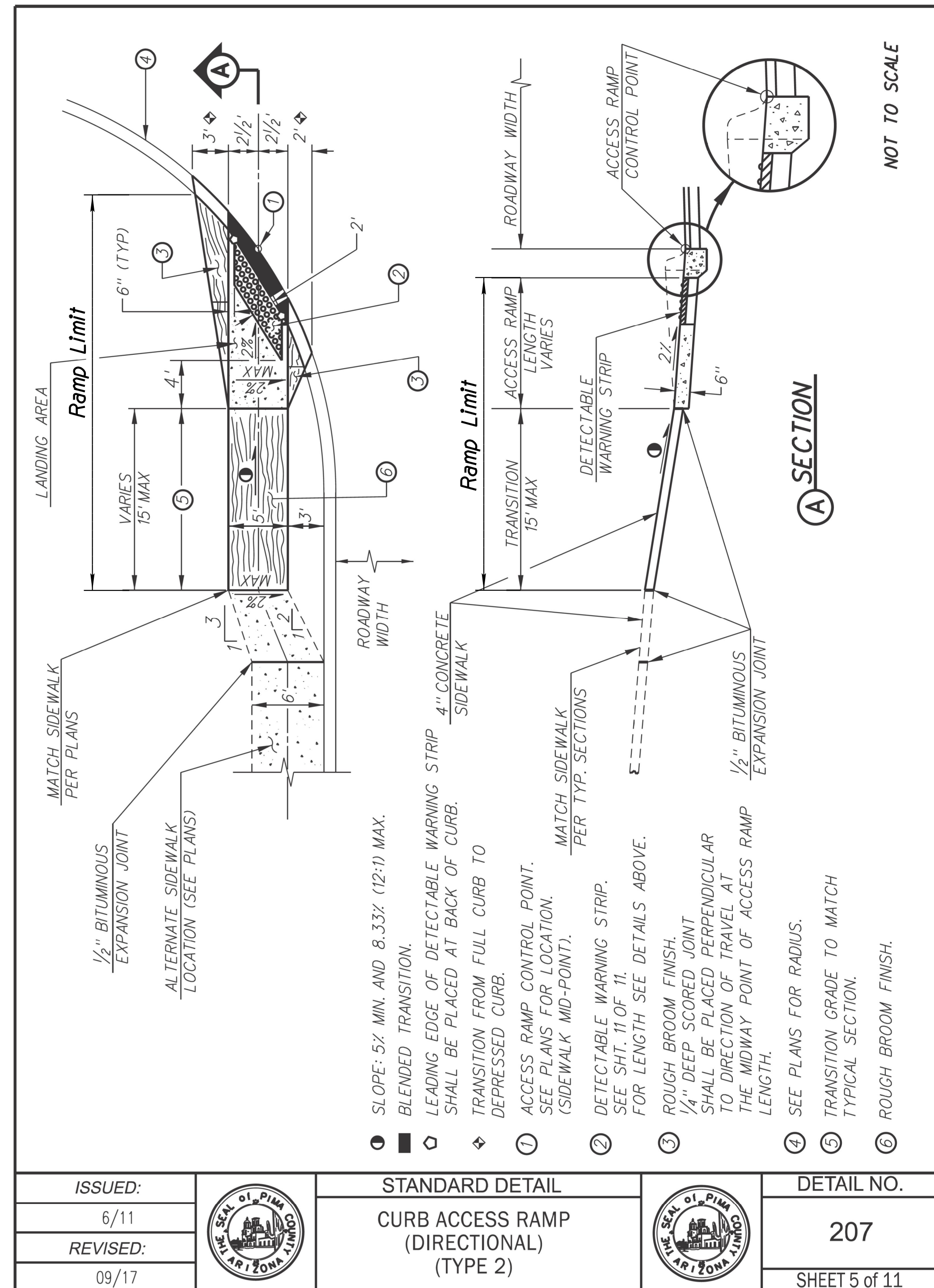
### PCDOT DTL 207

DESIGN	V. CASTANEDA	DATE	3-19
DRAWN	D. BACON	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19
<b>Kimley»Horn</b>			
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.			
ROUTE	LOCATION	RUTHRAUFF T1	
TRACS NO.	H8480 OIC	010-D(213)S	
ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES			PROFESSIONAL ENGINEER 47513 ALLEN R. HATHCOCK One Signed 03/19/2019 ARIZONA U.S.A.
DETAIL M CURB ACCESS RAMP, TYPE 1 & 3 PCDOT DTL 207			
DWG NO. G-12.19			OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	85	849	

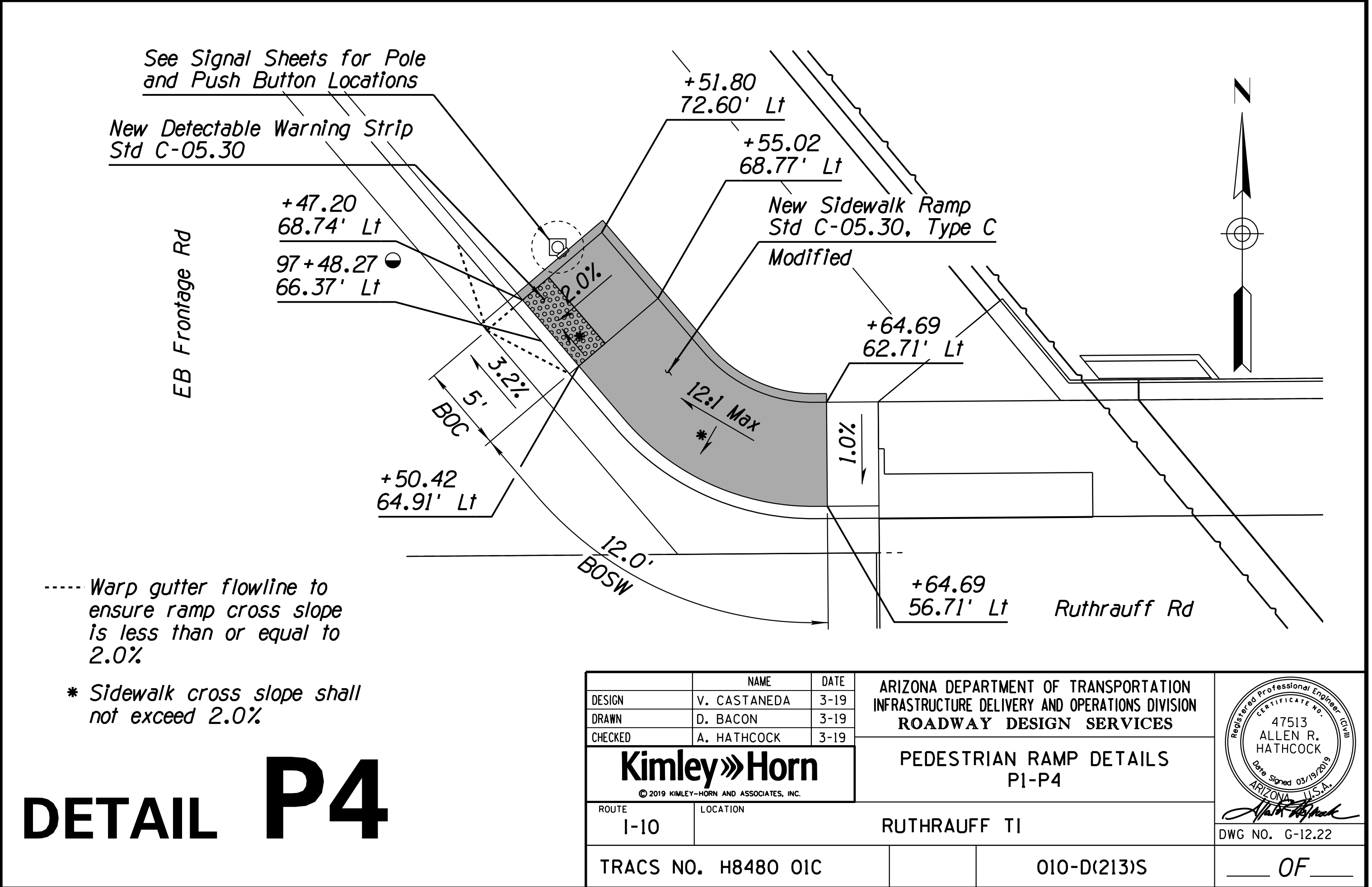
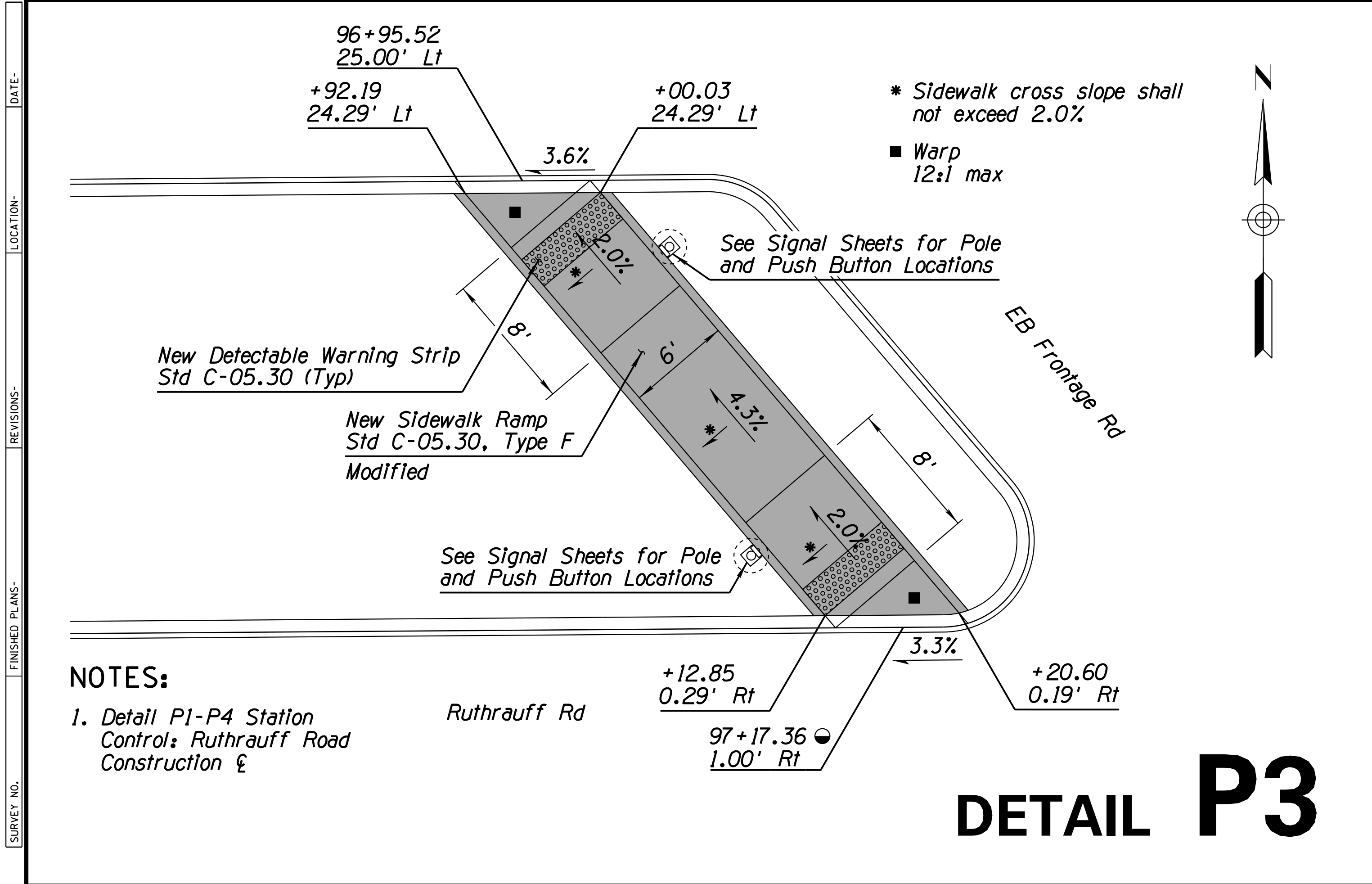
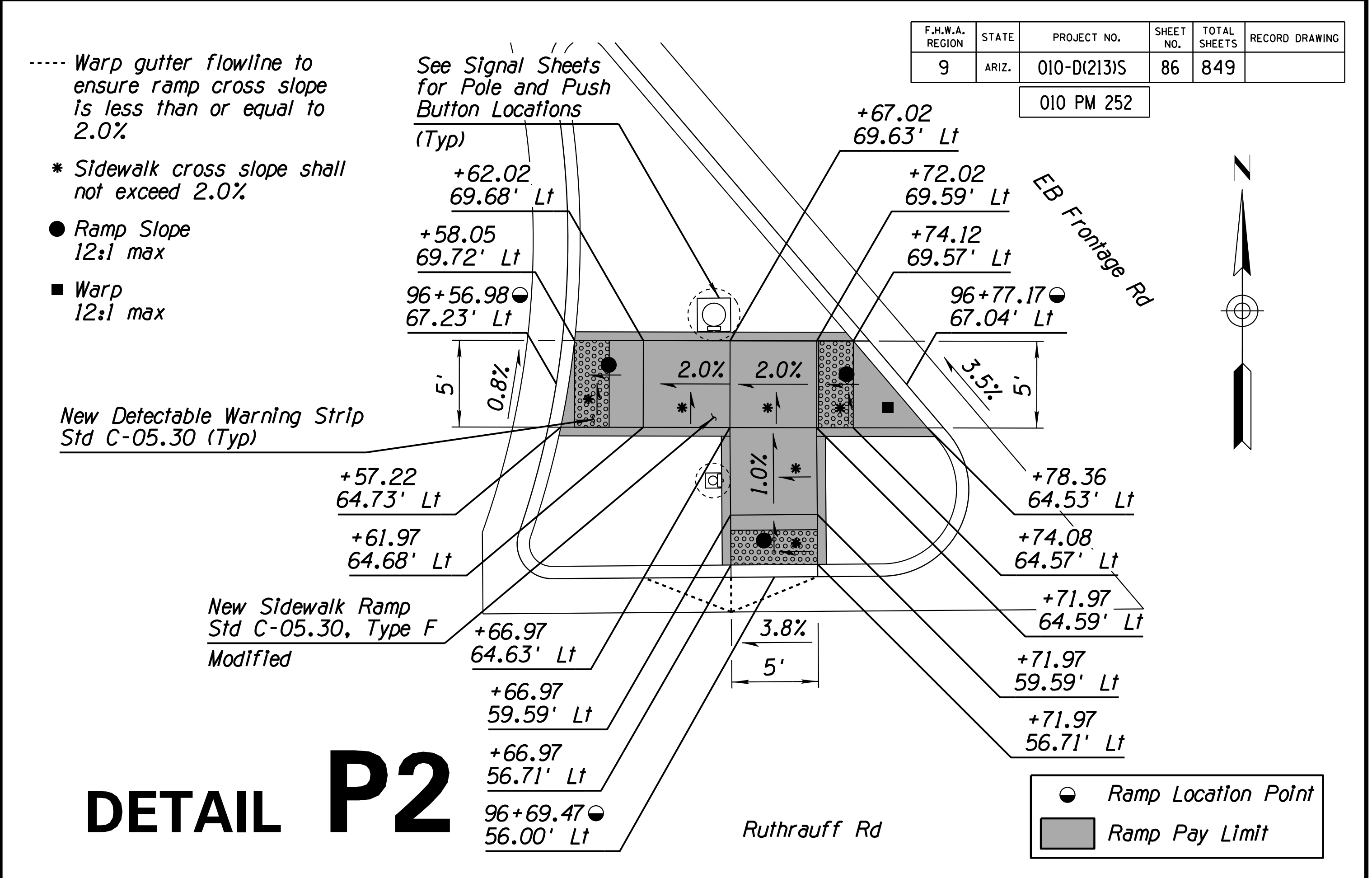
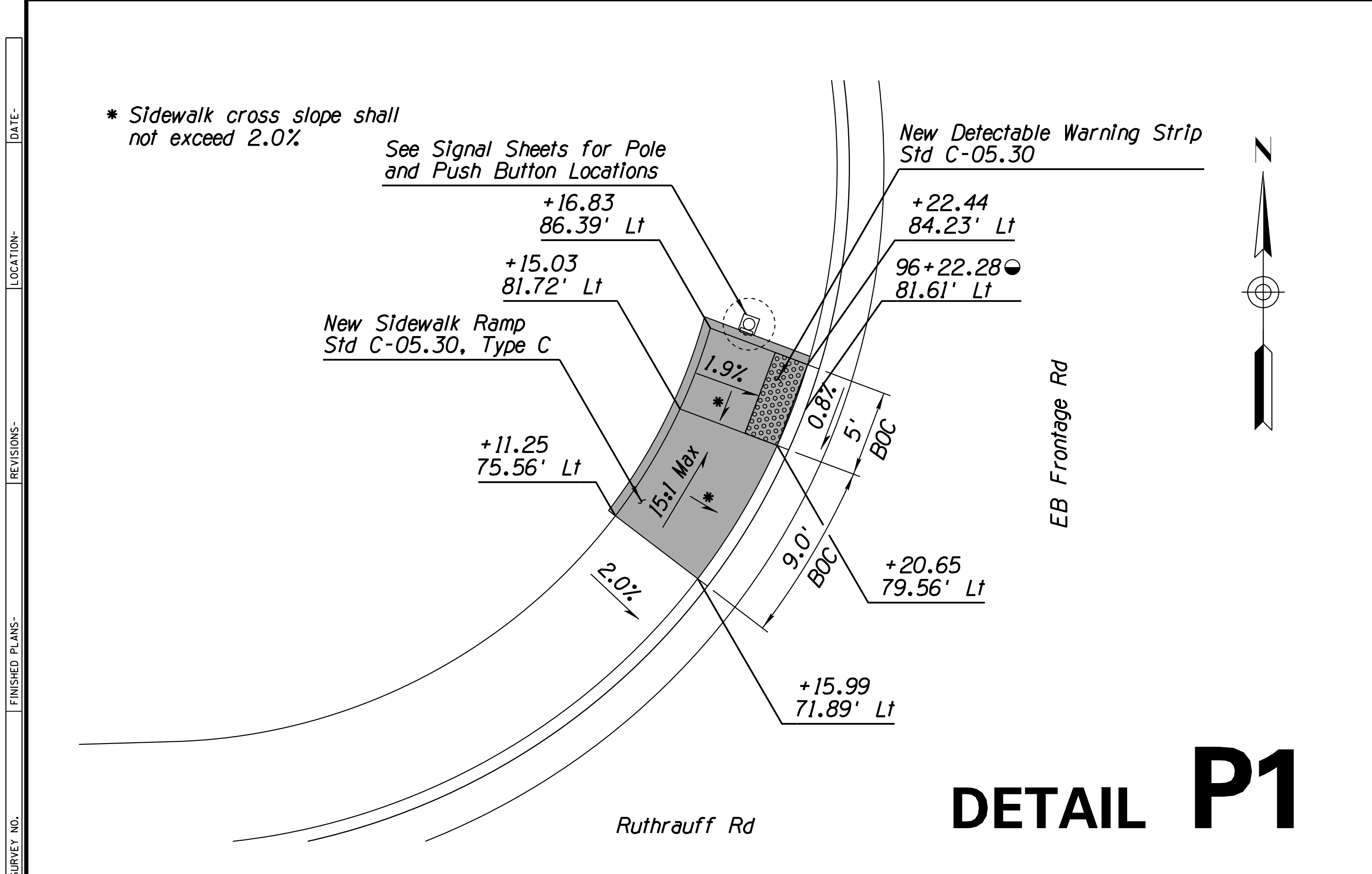
010 PM 252



# DETAIL 0

## CURB ACCESS RAMP, TYPE 2 PCDOT DTL 207

DESIGN	V. CASTANEDA	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		<b>DETAIL 0</b> <b>CURB ACCESS RAMP, TYPE 2</b> <b>PCDOT DTL 207</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. G-12.21	
TRACS NO.	H8480 OIC	010-D(213)S		OF	

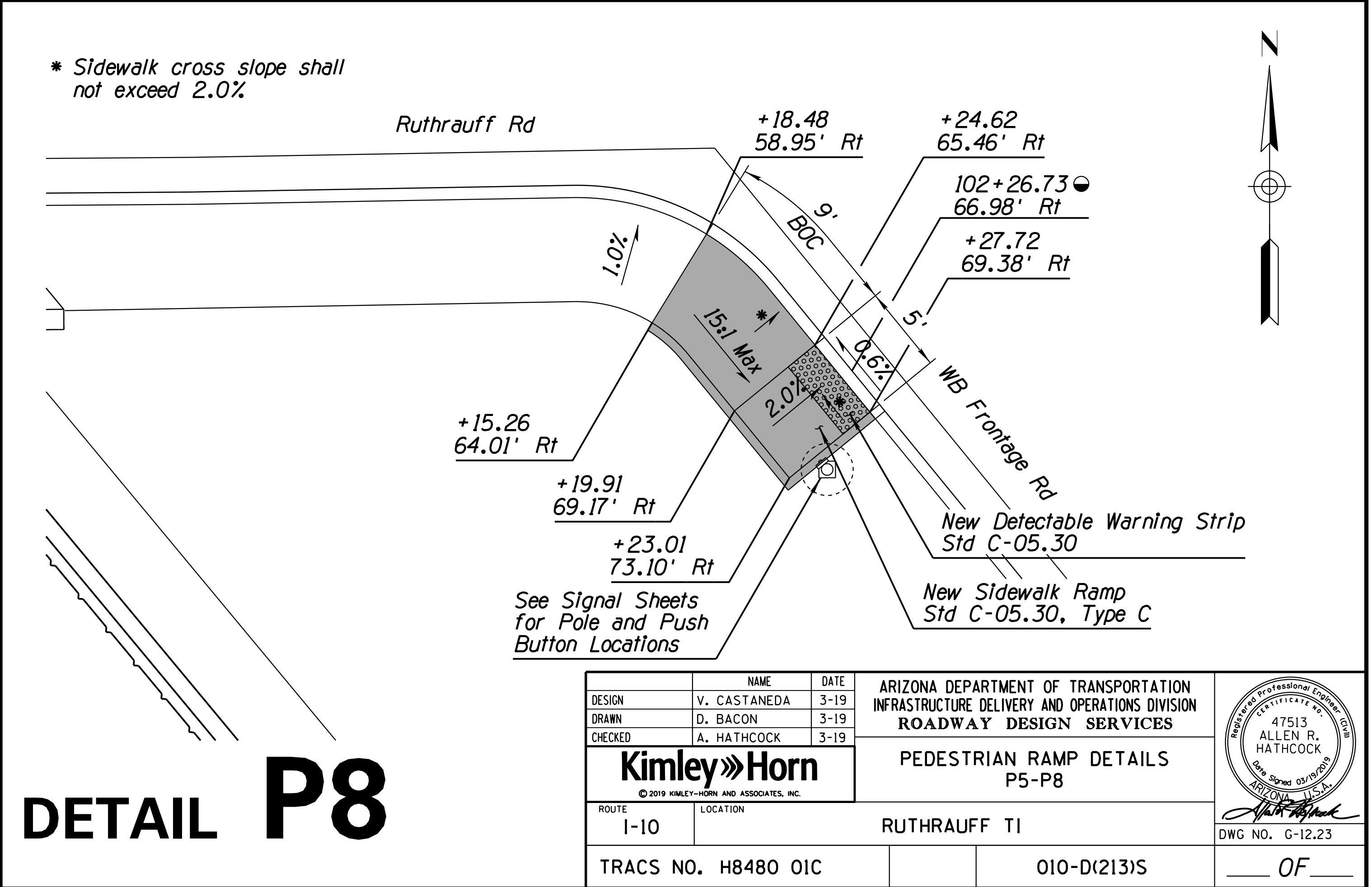
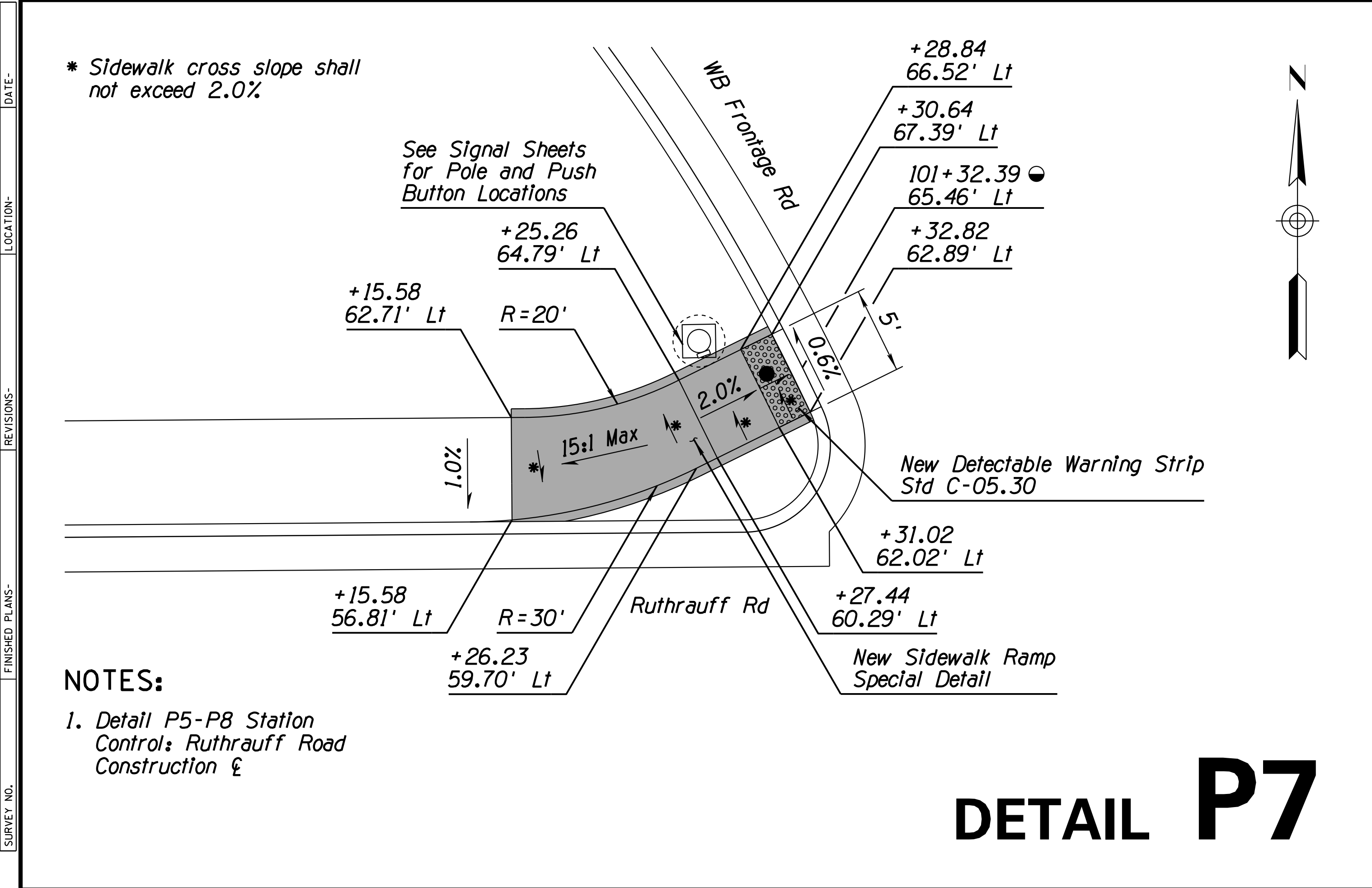
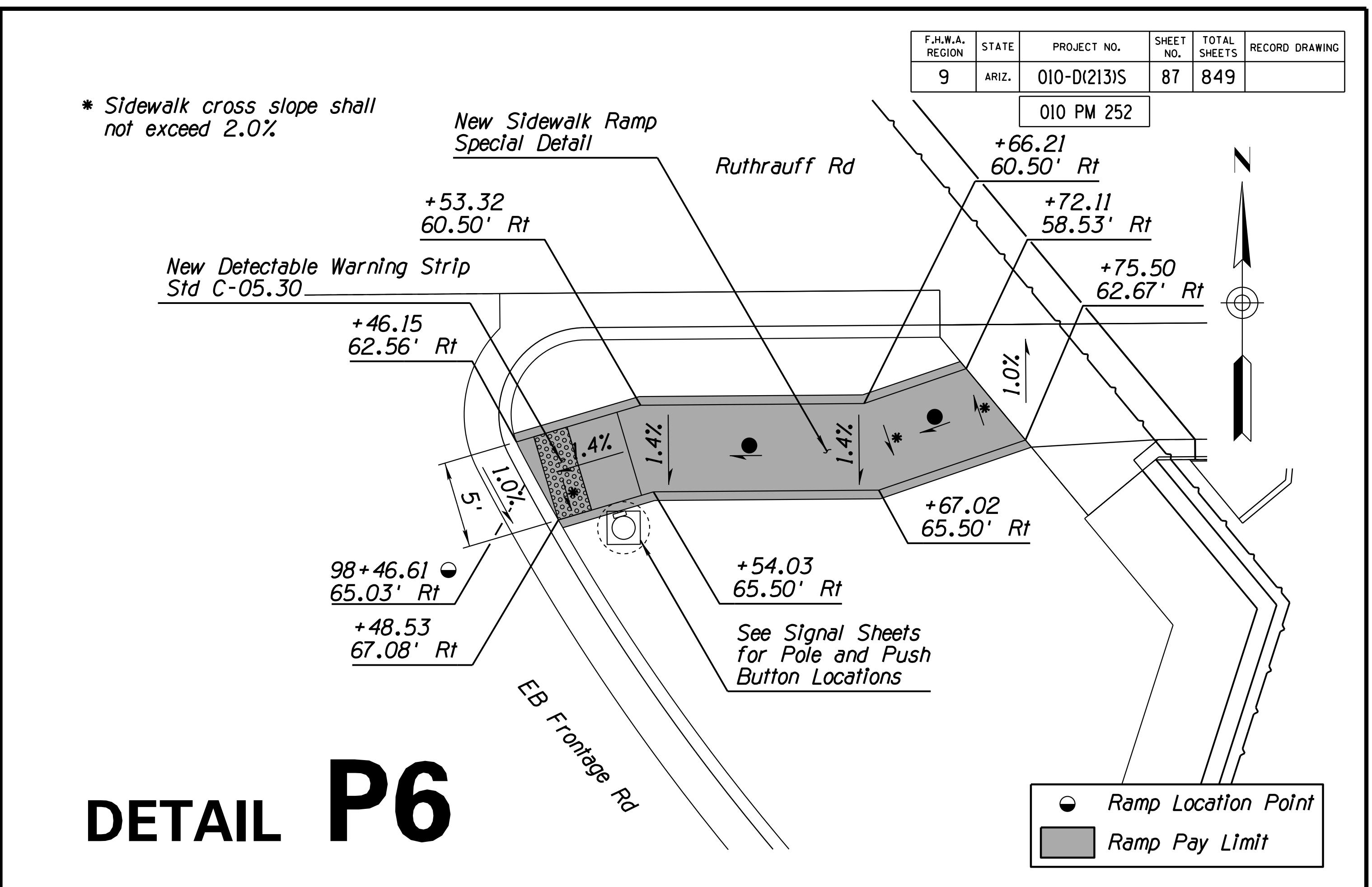
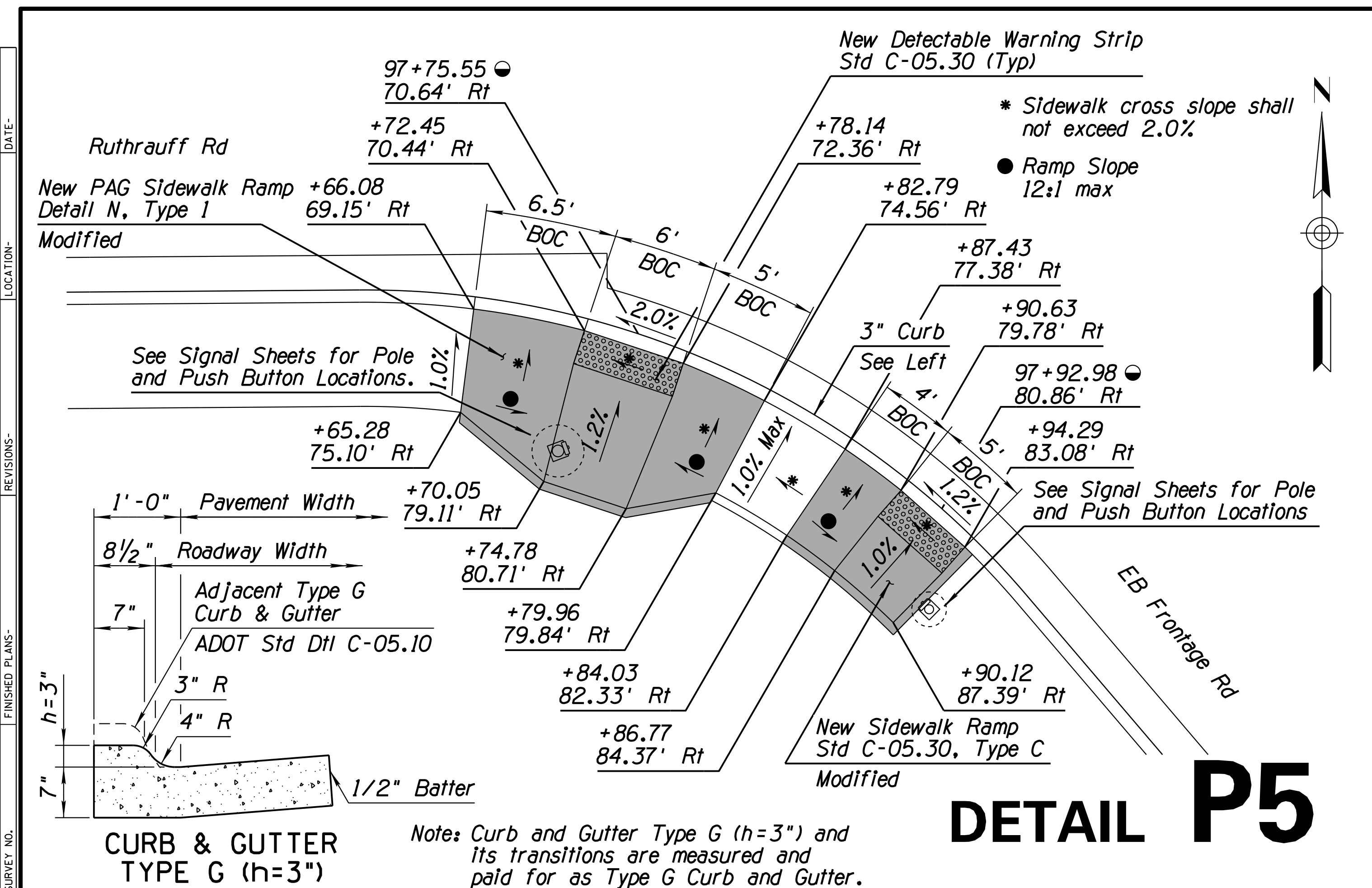


**NOTES:**  
1. Detail P1-P4 Station Control: Ruthrauff Road Construction £

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	86	849	

010 PM 252

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	3-19		
CHECKED	D. BACON	3-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>			<b>PEDESTRIAN RAMP DETAILS P1-P4</b>	
ROUTE	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S	
			DWG NO. G-12.22	
			OF	



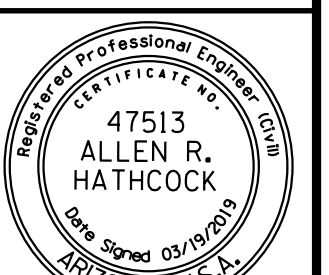
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	87	849	

010 PM 252

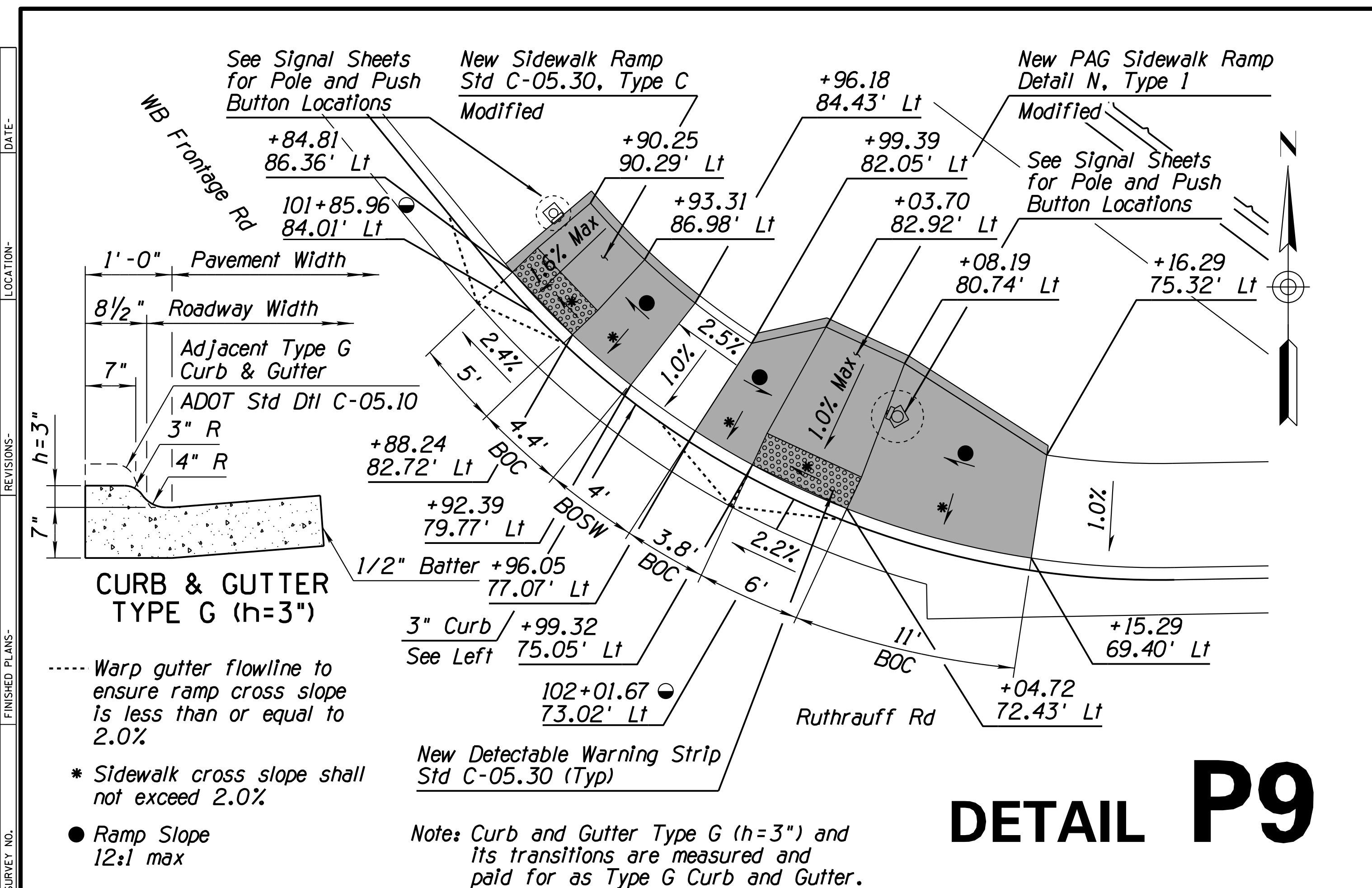
**Kimley»Horn**  
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.

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

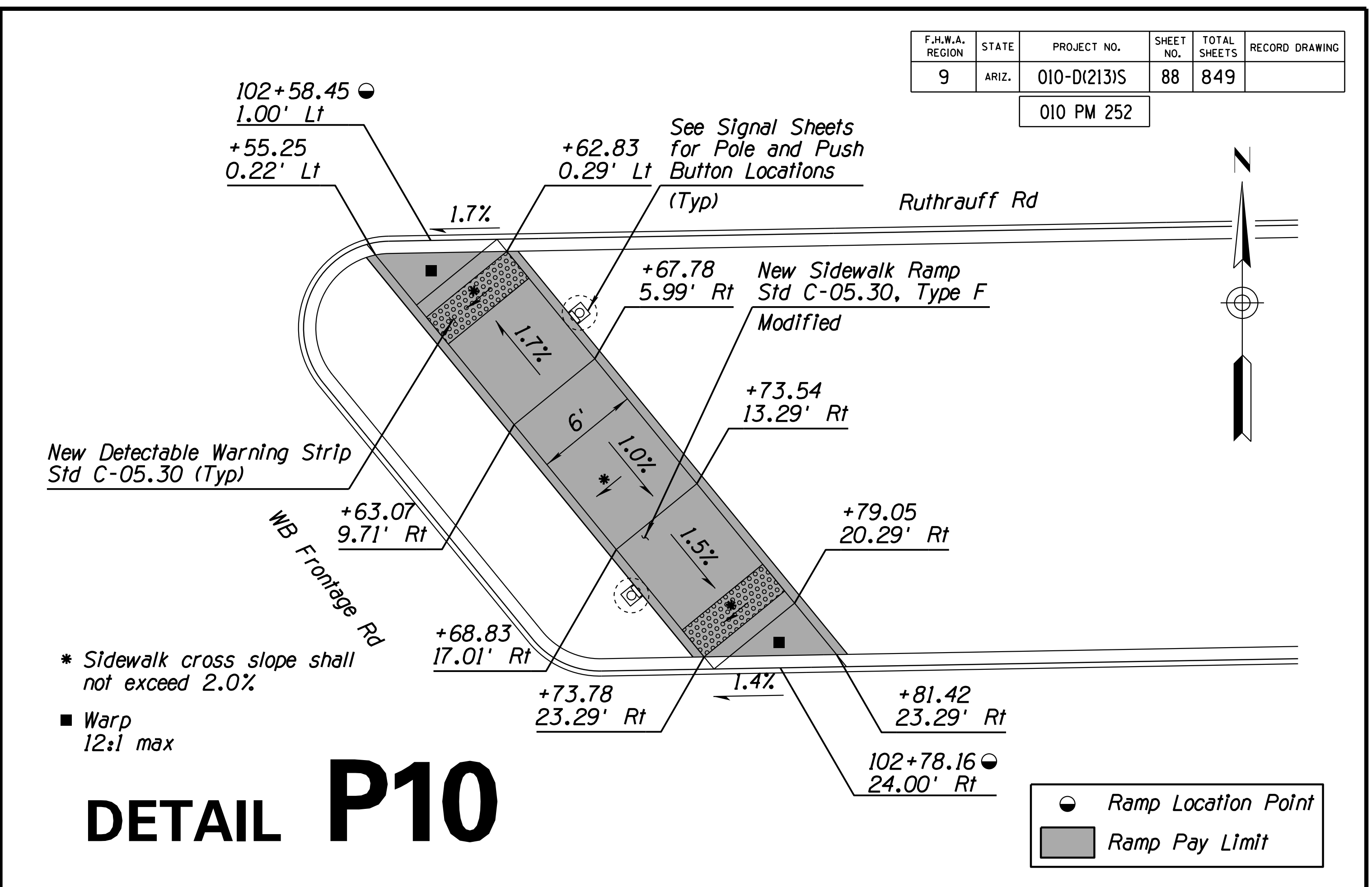
PEDESTRIAN RAMP DETAILS  
 P5-P8



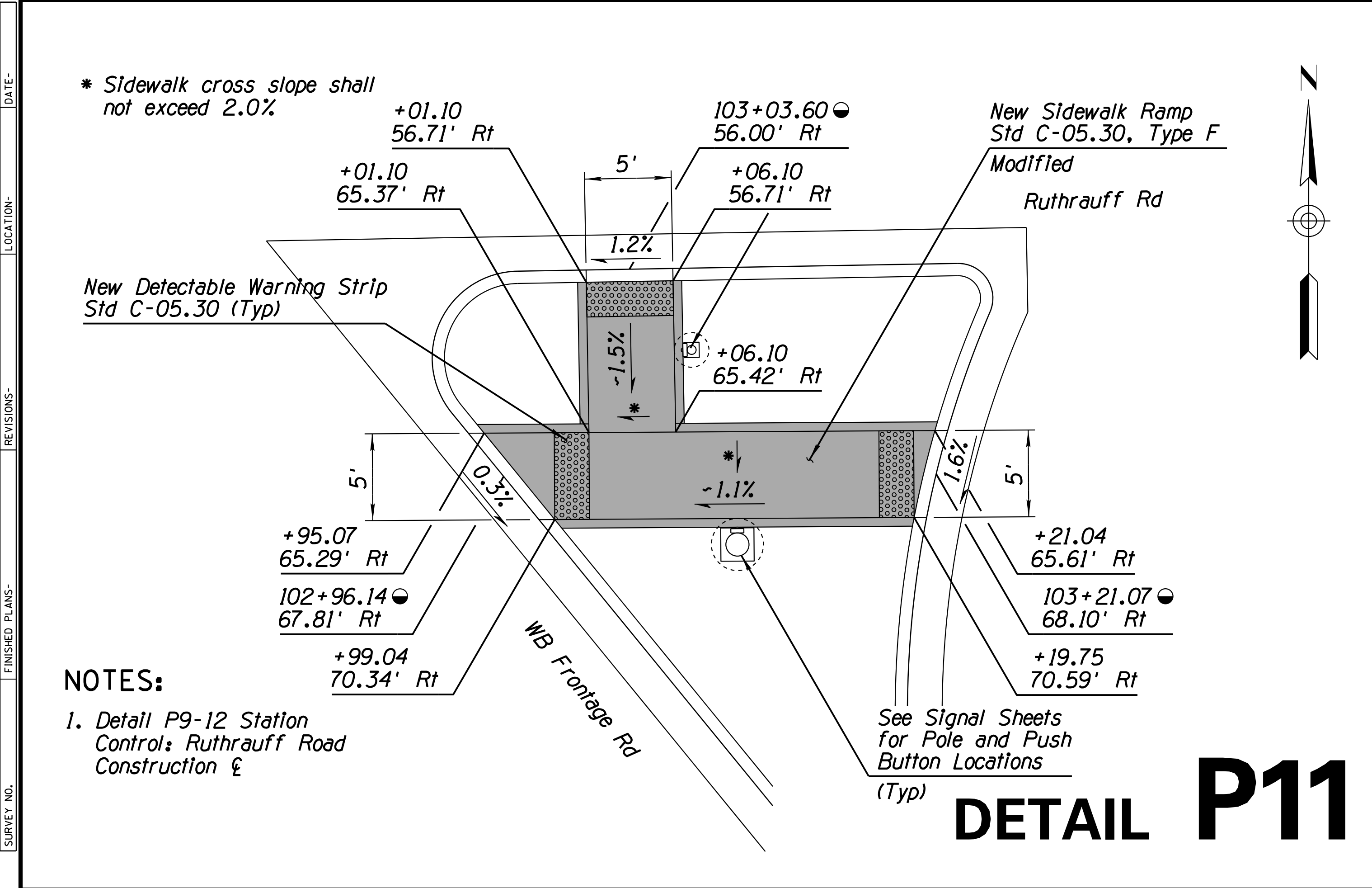
DESIGN	V. CASTANEDA	3-19
DRAWN	D. BACON	3-19
CHECKED	A. HATHCOCK	3-19
ROUTE	1-10	LOCATION
TRACS NO. H8480 OIC		RUTHRAUFF T1
		010-D(213)S
		DWG NO. G-12.23
		OF



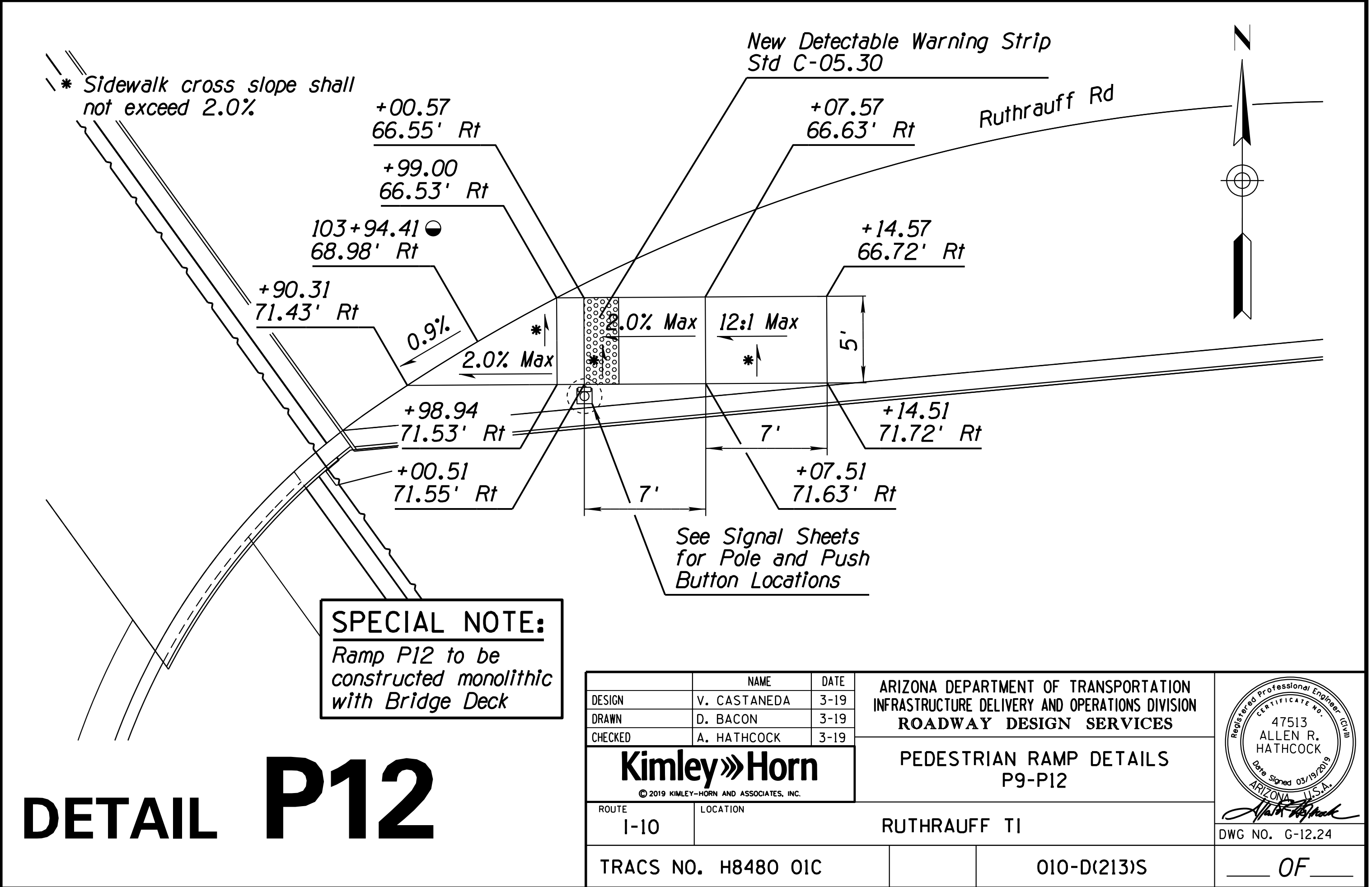
**DETAIL P9**



**DETAIL P10**



**DETAIL P11**



**DETAIL P12**

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	88	849	

010 PM 252

● Ramp Location Point  
 Ramp Pay Limit

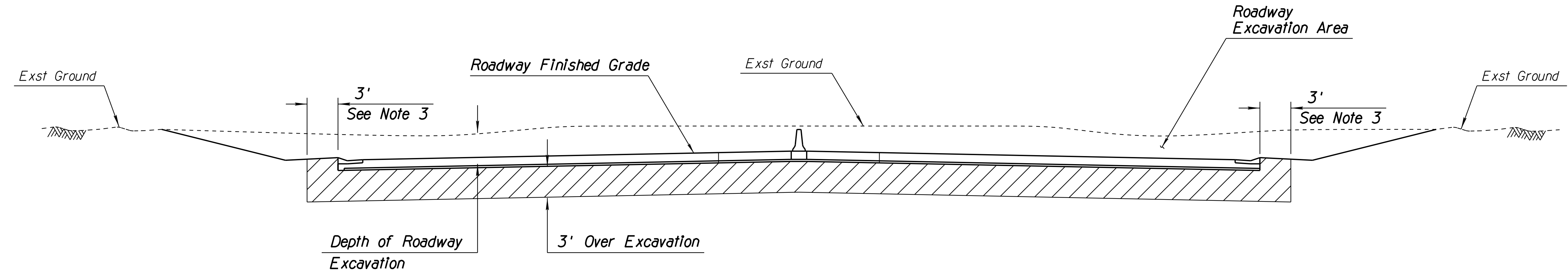
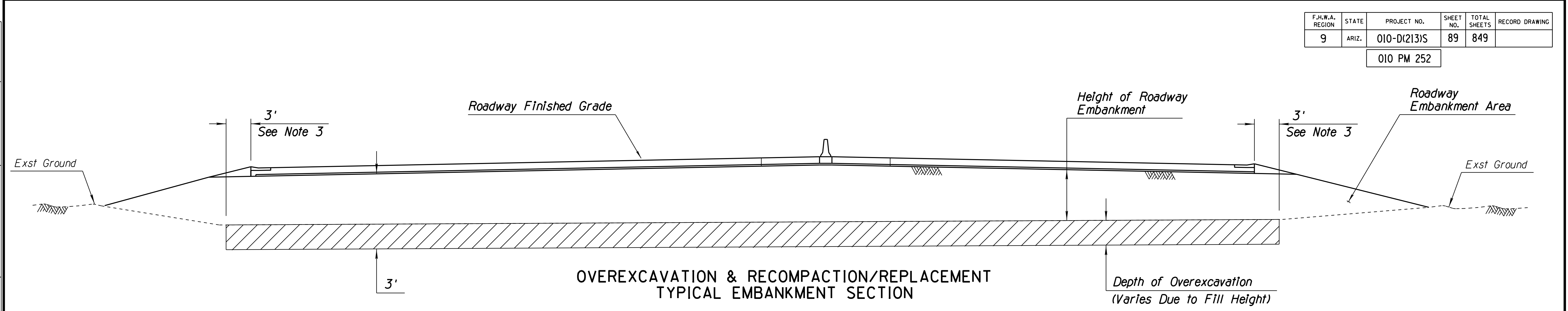
**NOTES:**  
 1. Detail P9-12 Station Control: Ruthrauff Road Construction £

**SPECIAL NOTE:**  
 Ramp P12 to be constructed monolithic with Bridge Deck

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	V. CASTANEDA	3-19	
CHECKED	D. BACON	3-19	
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>			<b>PEDESTRIAN RAMP DETAILS            P9-P12</b>
ROUTE	LOCATION		
TRACS NO. H8480 OIC			RUTHRAUFF TI DWG NO. G-12.24
010-D(213)S			OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	89	849	

010 PM 252



UNSUITABLE MATERIAL LOCATIONS	
ALIGNMENT	STATION LIMITS*
I-10 Mainline Centerline	Sta 5195+25.00 to 5196+50.00
	Sta 5199+75.00 to 5200+50.00
	Sta 5202+50.00 to 5204+25.00
	Sta 5206+50.00 to 5207+25.00
	Sta 5208+75.00 to 5211+00.00
	Sta 5213+25.00 to 5214+75.00
Ruthrauff Road Centerline	Sta 113+00.00 to 121+55.00
Davis Avenue/ Highway Drive Centerline	Entire Length

**OVEREXCAVATION & RECOMPACTION/REPLACEMENT TYPICAL EXCAVATION SECTION**

**Notes:**

- All existing subgrade soils within the project limits shall be excavated to a minimum depth of 3' below the finished subgrade elevation.
- Before embankment is placed the existing slopes shall be benched in accordance with Section 203-10.03 (A) of the Standard Specifications.
- 15' for EB I-10 between Sta 5200+34.12 to Sta 5226+32.53 and 15' for WB I-10 between Sta 5201+49.85 to 5234+60.98 to account for future widening.

\* All excavation from these limits is considered unsuitable material and shall be replaced with suitable material. For additional information, See Special Provisions.

**DETAIL Q**  
SHEET 1 OF 2  
SUBGRADE OVER-EXCAVATION

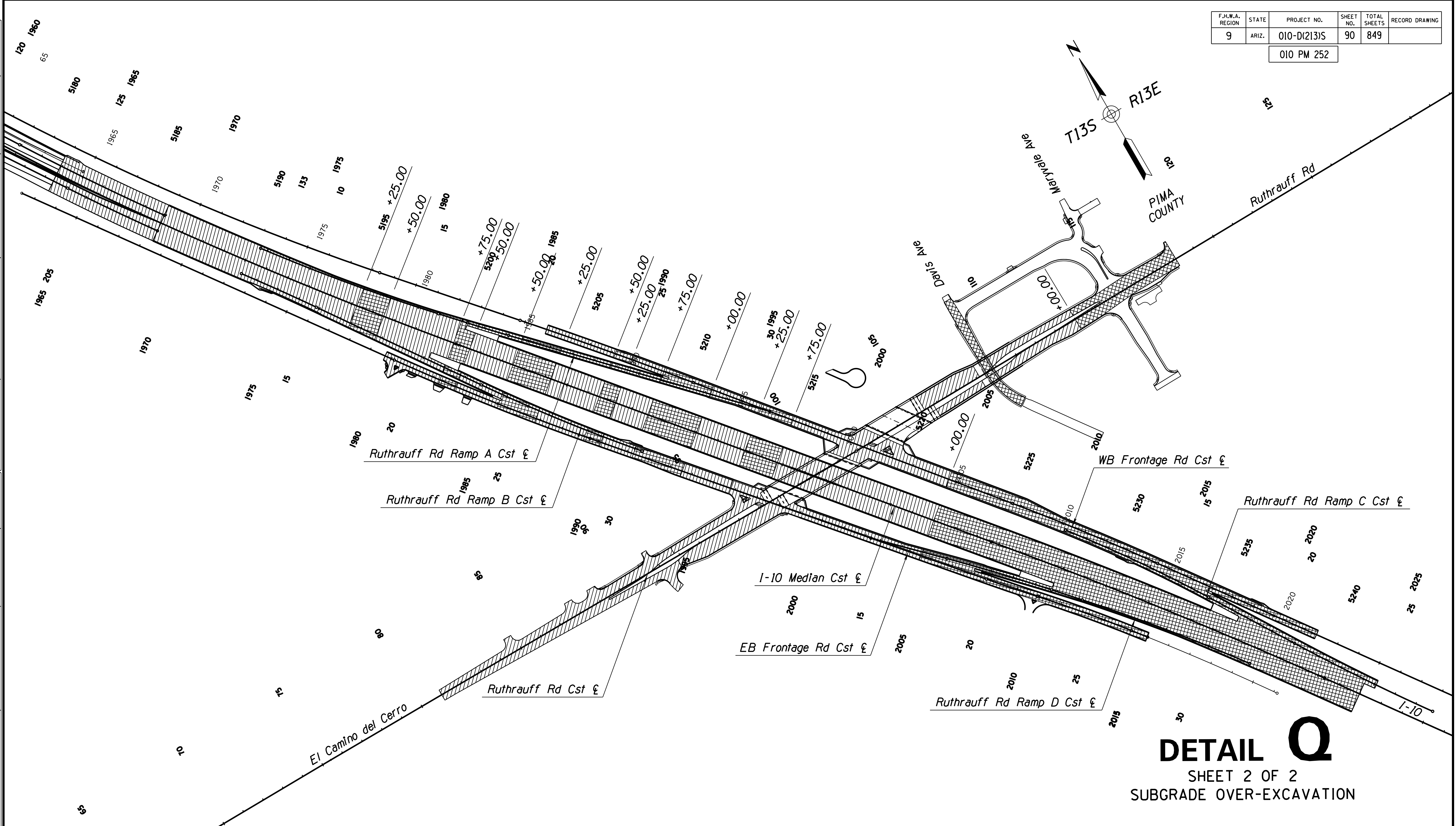
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DETAIL SHEET DETAIL Q	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	Expires 9/30/2019 DWG NO. G-12,25 OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	90	849	

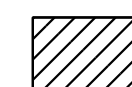
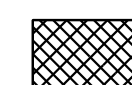
010 PM 252



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



# DETAIL Q

SHEET 2 OF 2  
SUBGRADE OVER-EXCAVATION

-  Over Excavation and Recompaction
-  Over Excavation and Replace

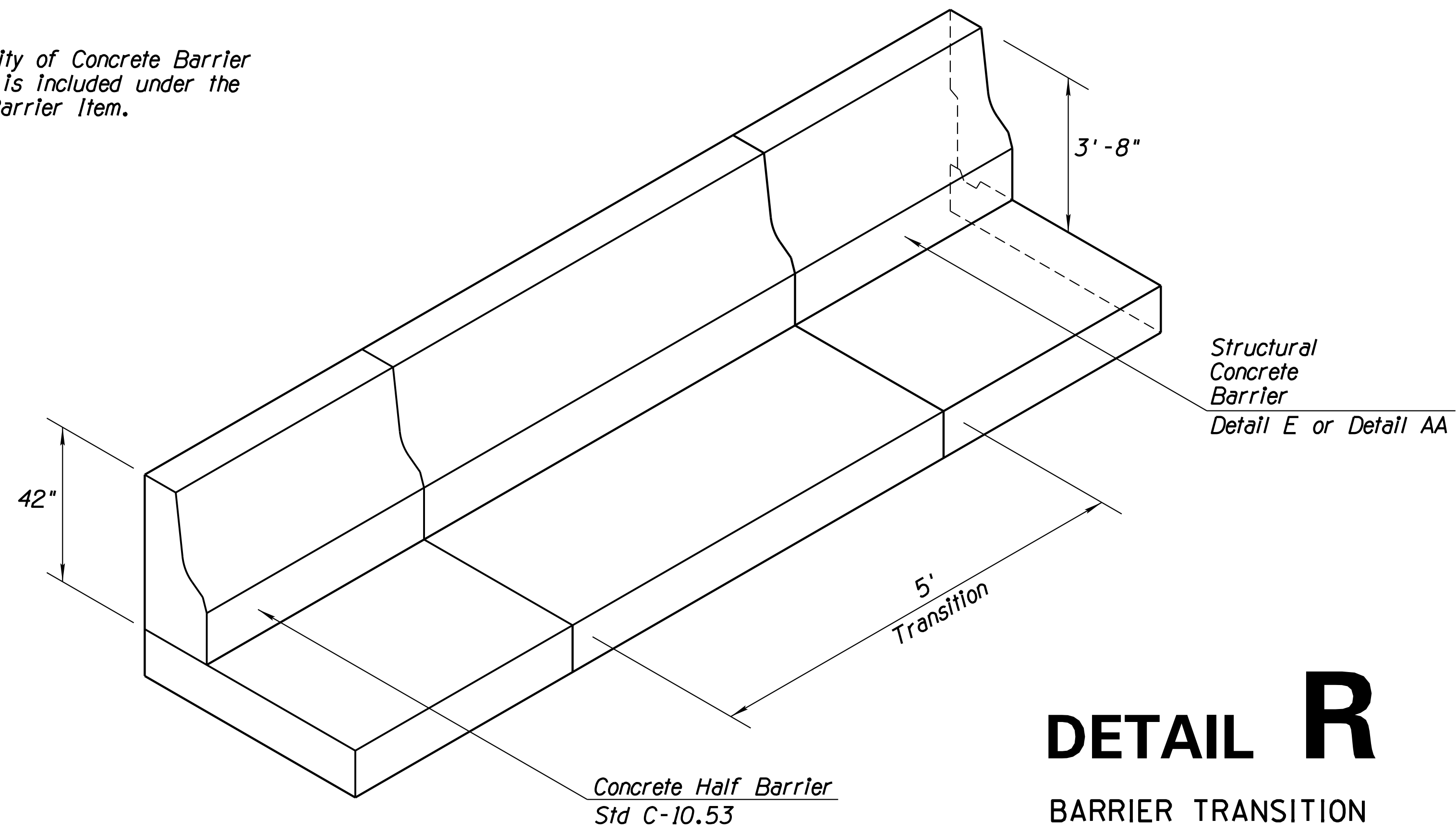
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DETAIL SHEET DETAIL Q	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. G-12.25A OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	91	849	

010 PM 252

**NOTE:**

1. The quantity of Concrete Barrier Transition is included under the Concrete Barrier Item.



# DETAIL R

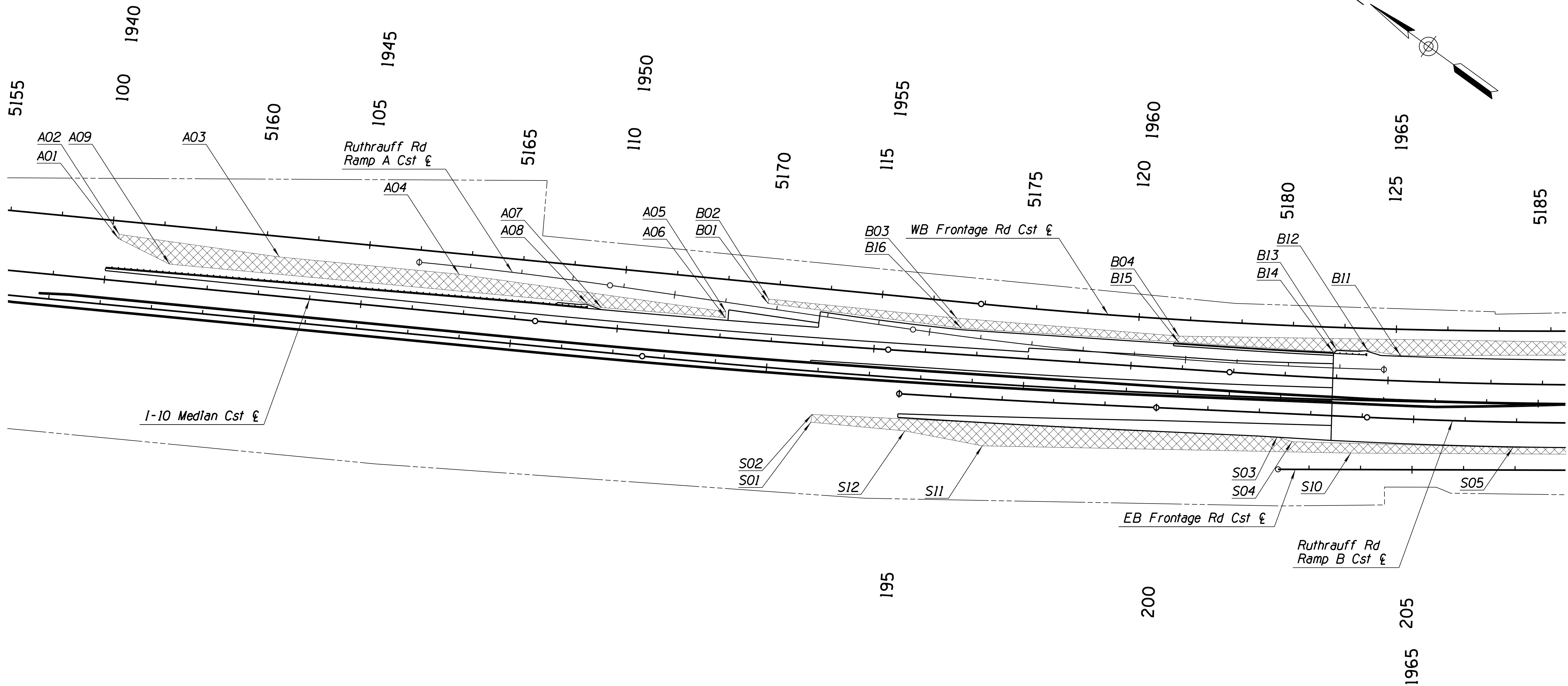
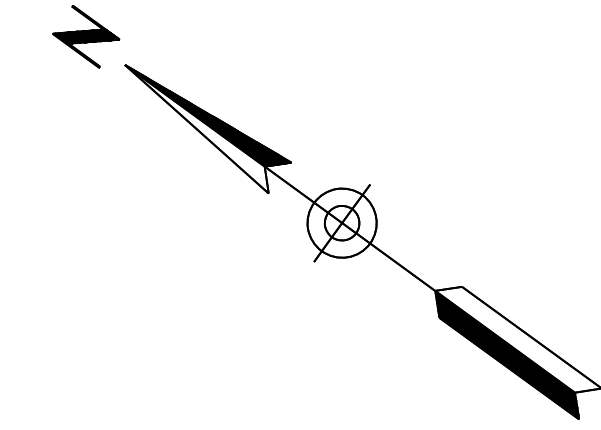
BARRIER TRANSITION

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

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		DETAIL SHEET DETAIL R	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-12.26 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	92	849	

010 PM 252



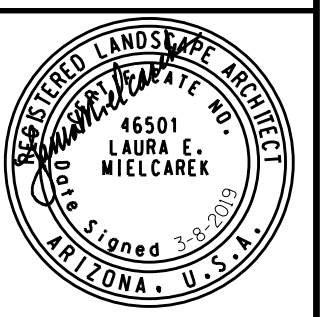
# DETAIL U

TOPSOIL PLATING  
Sheet 1 of 4

TOPSOIL LEGEND	
	24" Topsoil Placement Area
	12" Topsoil Placement Area

- NOTES:
1. Refer to Sheet G-12.33A for Topsoil Plating Station Chart.
  2. Topsoil shall meet the requirements of Section 804 of the Standard Specifications.
  3. Amending at the source or amending once material is placed is acceptable.

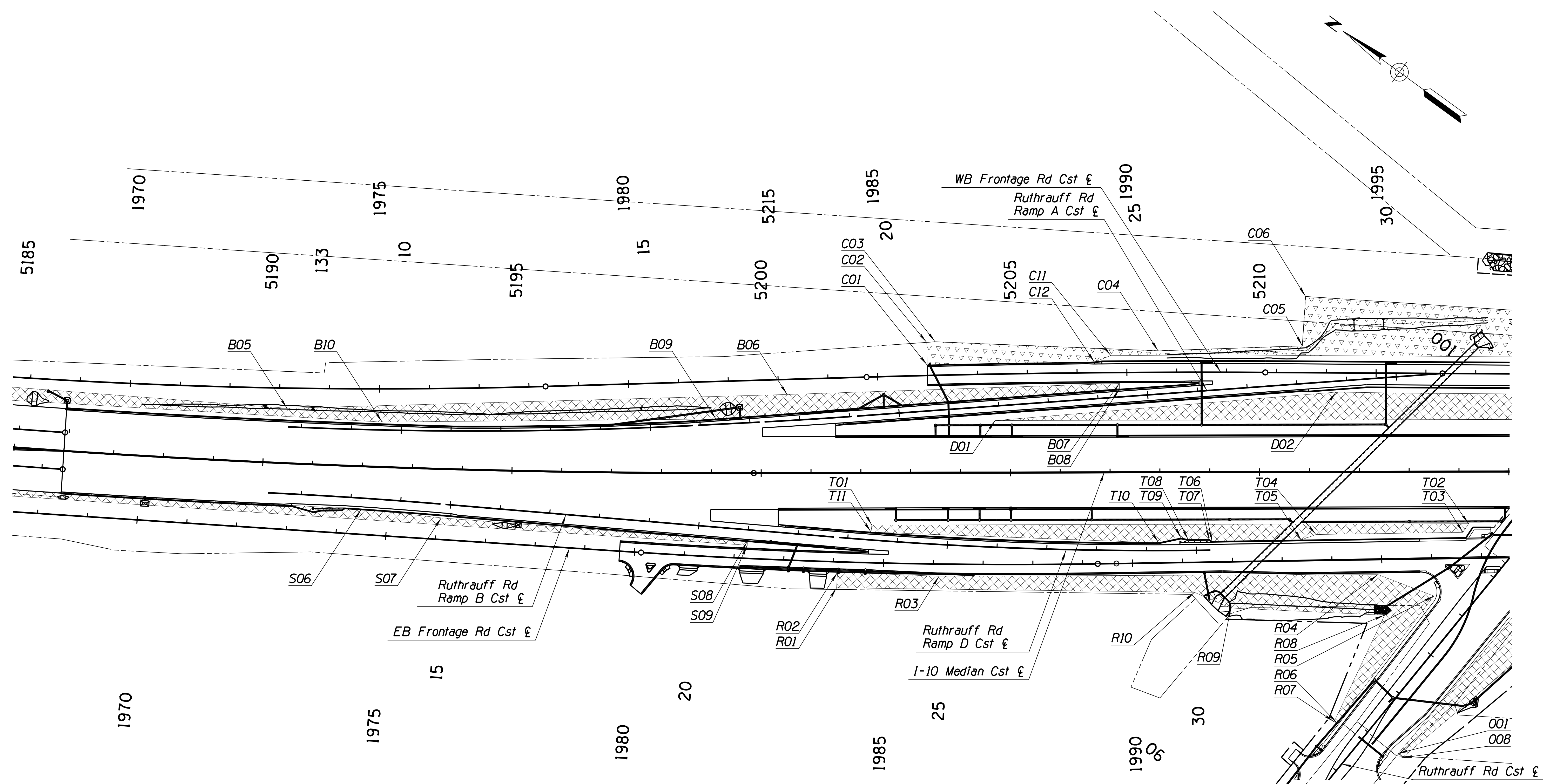
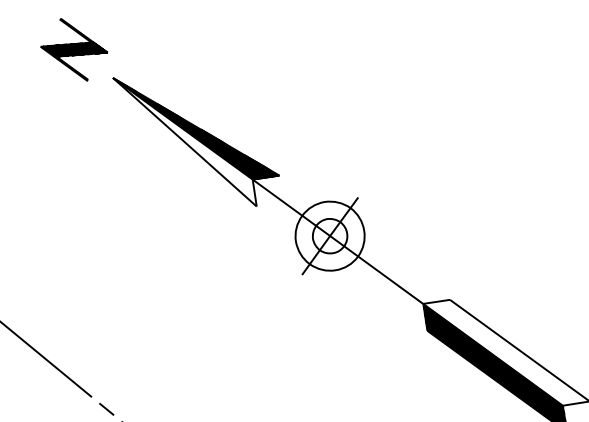
DESIGN	WGD	DATE	3/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION
DRAWN	WGD	DATE	3/19	
CHECKED	WGD	DATE	3/19	
<b>WHEAT DESIGN GROUP</b>				DETAIL SHEET TOPSOIL PLATING STA 5155+00 to 5185+00
LANDSCAPE ARCHITECTS		500 N TUCSON BLVD, SUITE 150 TUCSON AZ 85716		
ROUTE	LOCATION			EXPIRES 6-30-2019 DWG NO. G-12.27
I-10	RUTHRAUFF ROAD TI			
TRACS NO. H 8480 01C		010-D(213)S		OF



SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	93	849	

010 PM 252



TOPSOIL LEGEND	
	24" Topsoil Placement Area
	12" Topsoil Placement Area

NOTES:  
 1. Refer to Sheet G-12.33A for Topsoil Plating Station Chart.  
 2. Topsoil shall meet the requirements of Section 804 of the Standard Specifications.  
 3. Amending at the source or amending once material is placed is acceptable.

# DETAIL U

TOPSOIL PLATING  
 Sheet 2 of 4

DESIGN	WGD	3/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION		
DRAWN	WGD	3/19			
CHECKED	WGD	3/19			
<b>WHEAT DESIGN GROUP</b> LANDSCAPE ARCHITECTS <small>500 N TUCSON BLVD, SUITE 150 TUCSON AZ 85716</small>			DETAIL SHEET TOPSOIL PLATING STA 5185+00 to 5215+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		EXPIRES 6-30-2019 DWG NO. G-12.28

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-D(213)S	94	849	

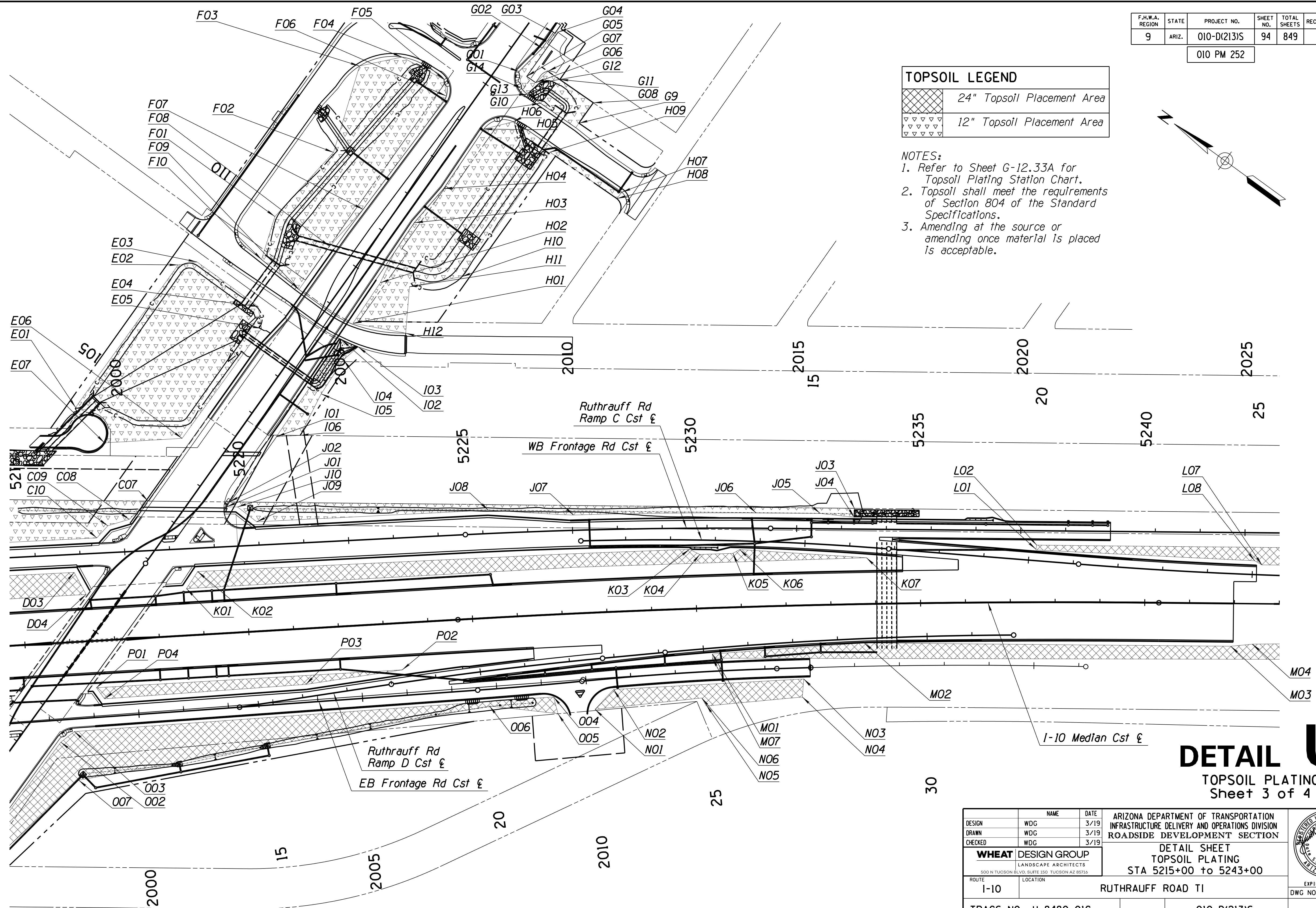
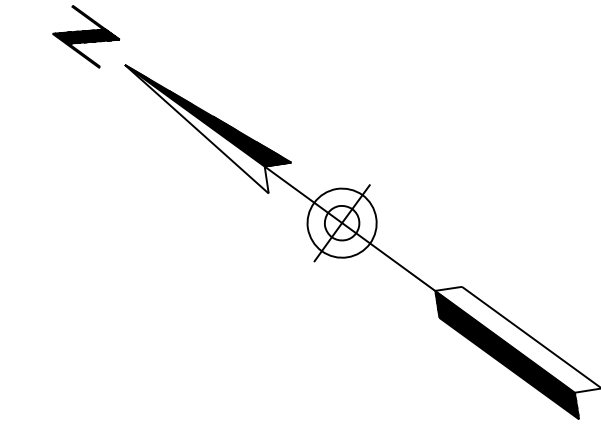
010 PM 252

**TOPSOIL LEGEND**

	24" Topsoil Placement Area
	12" Topsoil Placement Area

**NOTES:**

1. Refer to Sheet G-12.33A for Topsoil Plating Station Chart.
2. Topsoil shall meet the requirements of Section 804 of the Standard Specifications.
3. Amending at the source or amending once material is placed is acceptable.



**DETAIL U**  
TOPSOIL PLATING  
Sheet 3 of 4

DESIGN	WDG	DATE	3/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	
DRAWN	WDG	DATE	3/19		
CHECKED	WDG	DATE	3/19		
<b>WHEAT DESIGN GROUP</b>		LANDSCAPE ARCHITECTS		DETAIL SHEET	
500 N TUCSON BLVD, SUITE 150 TUCSON AZ 85716				TOPSOIL PLATING	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	STA 5215+00 to 5243+00	
TRACS NO. H 8480 OIC			010-D(213)S		EXPIRES 6-30-2019 DWG NO. G-12.29

ccccSYTIMEcccc

ccccDGNcSPECIFICATIONcccc

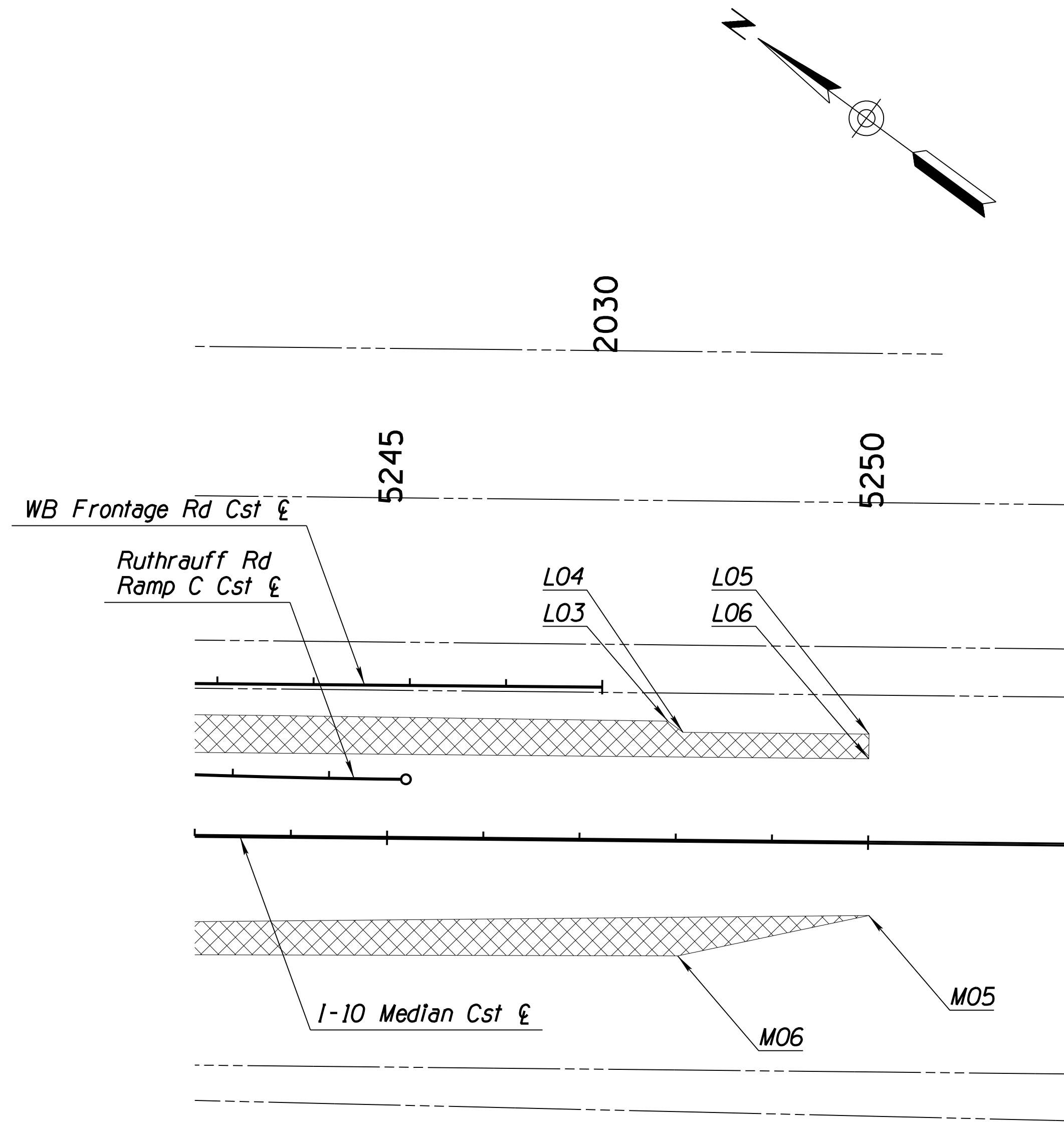
DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	95	849	

010 PM 252

### TOPSOIL PLATING STATION CHART

Point	Station	Offset	Left/Right	Point	Station	Offset	Left/Right	Point	Station	Offset	Left/Right
A01	5157+24	130	LT	G01	115+66	45	RT	M02	5233+72	87	RT
A02	5157+24	138	LT	G02	116+38	57	RT	M03	5241+93	95	RT
A03	5160+38	124	LT	G03	116+82	57	RT	M04	5242+41	90	RT
A04	5163+88	124	LT	G04	116+88	65	RT	M05	5248+03	120	RT
A05	5169+12	101	LT	G05	115+67	65	RT	M06	5250+00	76	RT
A06	5169+12	88	LT	G06	115+67	89	RT	N01	2010+15	19	RT
A07	5166+69	86	LT	G07	116+05	97	RT	N02	2010+60	20	RT
A08	5156+41	93	LT	G08	116+05	220	RT	N03	2014+85	21	RT
A09	5158+27	90	LT	G09	115+37	220	RT	N04	2014+80	61	RT
B01	5169+92	124	LT	G10	115+37	125	RT	N05	2012+64	70	RT
B02	5169+92	133	LT	G11	115+92	127	RT	N06	2012+55	52	RT
B03	5173+62	125	LT	G12	115+72	97	RT	O01	1995+27	382	RT
B04	5177+97	112	LT	G13	115+35	90	RT	O02	1998+21	49	RT
B05	5190+43	110	LT	G14	115+39	71	RT	O03	1998+53	28	RT
B06	5200+52	158	LT	H01	108+94	68	RT	O04	2009+25	27	RT
B07	5207+19	168	LT	H02	110+03	65	RT	O05	2009+32	65	RT
B08	5207+19	158	LT	H03	111+56	49	RT	O06	2007+81	37	RT
B09	5199+08	109	LT	H04	112+56	59	RT	O07	1998+55	137	RT
B10	5192+36	90	LT	H05	114+16	55	RT	O08	1995+35	399	RT
B11	5182+30	89	LT	H06	114+67	99	RT	P01	5216+53	105	RT
B12	5181+67	97	LT	H07	114+79	387	RT	P02	5223+95	104	RT
B13	5181+08	97	LT	H08	114+61	387	RT	P03	5221+21	124	RT
B14	5181+00	92	LT	H09	114+59	205	RT	P04	5216+70	130	RT
B15	5177+97	100	LT	H10	111+19	205	RT	R01	1984+08	52	RT
B16	5173+72	104	LT	H11	110+33	123	RT	R02	1984+08	21	RT
C01	1986+00	21	LT	H12	109+43	176	RT	R03	1986+12	24	RT
C02	1986+00	66	LT	I01	105+88	74	RT	R04	1994+91	30	RT
C03	1986+17	67	LT	I02	108+49	69	RT	R05	1996+03	75	RT
C04	1990+63	43	LT	I03	108+58	108	RT	R06	1994+04	327	RT
C05	1993+52	54	LT	I04	108+15	98	RT	R07	1993+99	324	RT
C06	1993+58	153	LT	I05	107+24	101	RT	R08	1195+03	112	RT
C07	2000+57	110	LT	I06	106+21	116	RT	R09	1991+95	93	RT
C08	2000+13	72	LT	J01	2002+31	68	LT	R10	1991+23	60	RT
C09	1999+65	60	LT	J02	2002+38	99	LT	S01	5190+94	99	RT
C10	1999+39	34	LT	J03	2016+28	46	LT	S02	5190+94	84	RT
C11	1989+68	34	LT	J04	2016+28	27	LT	S03	5179+96	76	RT
C12	1989+35	21	LT	J05	2015+54	34	LT	S04	5180+26	84	RT
D01	5204+69	105	LT	J06	2014+08	24	LT	S05	5184+52	86	RT
D02	5211+53	160	LT	J07	2010+02	34	LT	S06	5192+01	86	RT
D03	5216+18	155	LT	J08	2008+14	52	LT	S07	5193+61	98	RT
D04	5216+42	104	LT	J09	2002+97	52	LT	S08	5199+72	137	RT
E01	103+94	328	LT	J10	2002+56	87	LT	S09	5199+72	145	RT
E02	107+74	326	LT	K01	5218+67	105	LT	S10	5181+39	103	RT
E03	108+04	293	LT	K02	5218+94	141	LT	S11	5174+28	121	RT
E04	108+02	127	LT	K03	5229+89	132	LT	S12	5172+76	102	RT
E05	103+94	278	LT	K04	5230+11	120	LT	T01	5202+22	105	RT
E06	104+61	96	LT	K05	5230+85	120	LT	T02	5214+19	105	RT
E07	103+55	231	LT	K06	5231+00	128	LT	T03	5214+07	122	RT
F01	109+87	212	LT	K07	5233+81	103	LT	T04	5211+13	126	RT
F02	111+79	188	LT	L01	5237+57	117	LT	T05	5210+82	136	RT
F03	113+70	253	LT	L02	5237+57	127	LT	T06	5209+04	139	RT
F04	114+41	187	LT	L03	5247+90	124	LT	T07	5208+98	135	RT
F05	114+54	81	LT	L04	5248+06	113	LT	T08	5208+56	135	RT
F06	114+28	56	LT	L05	5250+00	87	LT	T09	5208+42	132	RT
F07	111+10	62	LT	L06	5250+00	113	LT	T10	5207+97	142	RT
F08	110+08	74	LT	L07	5242+60	96	LT	T11	5202+22	119	RT
F09	108+85	74	LT	L08	5242+44	87	LT				
F10	108+91	181	LT	M01	5230+32	112	RT				



TOPSOIL LEGEND	
	24" Topsoil Placement Area
	12" Topsoil Placement Area

- NOTES:
1. Refer to Sheet G-12.33A for Topsoil Plating Station Chart.
  2. Topsoil shall meet the requirements of Section 804 of the Standard Specifications.
  3. Amending at the source or amending once material is placed is acceptable.

# DETAIL U

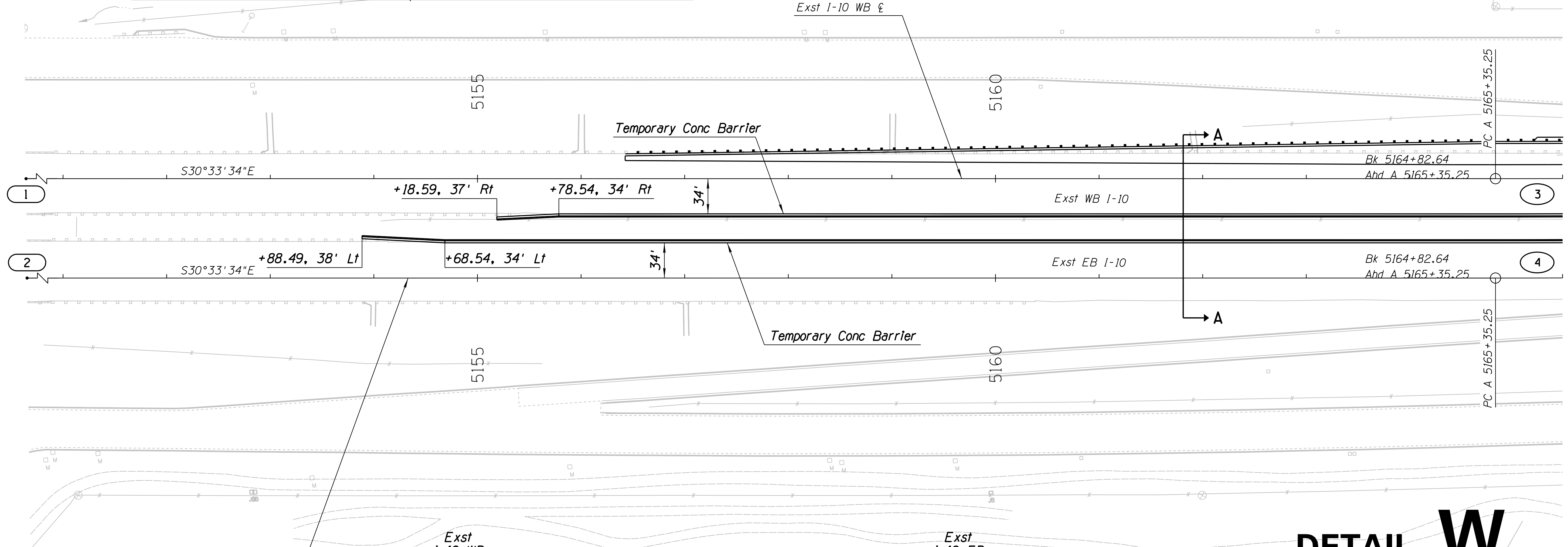
TOPSOIL PLATING  
Sheet 4 of 4

DESIGN	WDG	DATE	3/19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADSIDE DEVELOPMENT SECTION	
DRAWN	WDG	DATE	3/19		
CHECKED	WDG	DATE	3/19		
<b>WHEAT DESIGN GROUP</b> LANDSCAPE ARCHITECTS <small>500 N TUCSON BLVD, SUITE 150 TUCSON AZ 85716</small>				DETAIL SHEET TOPSOIL PLATING STA 5243+00 to 5250+00	
ROUTE	I-10			LOCATION	RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC				010-D(213)S	
				OF	

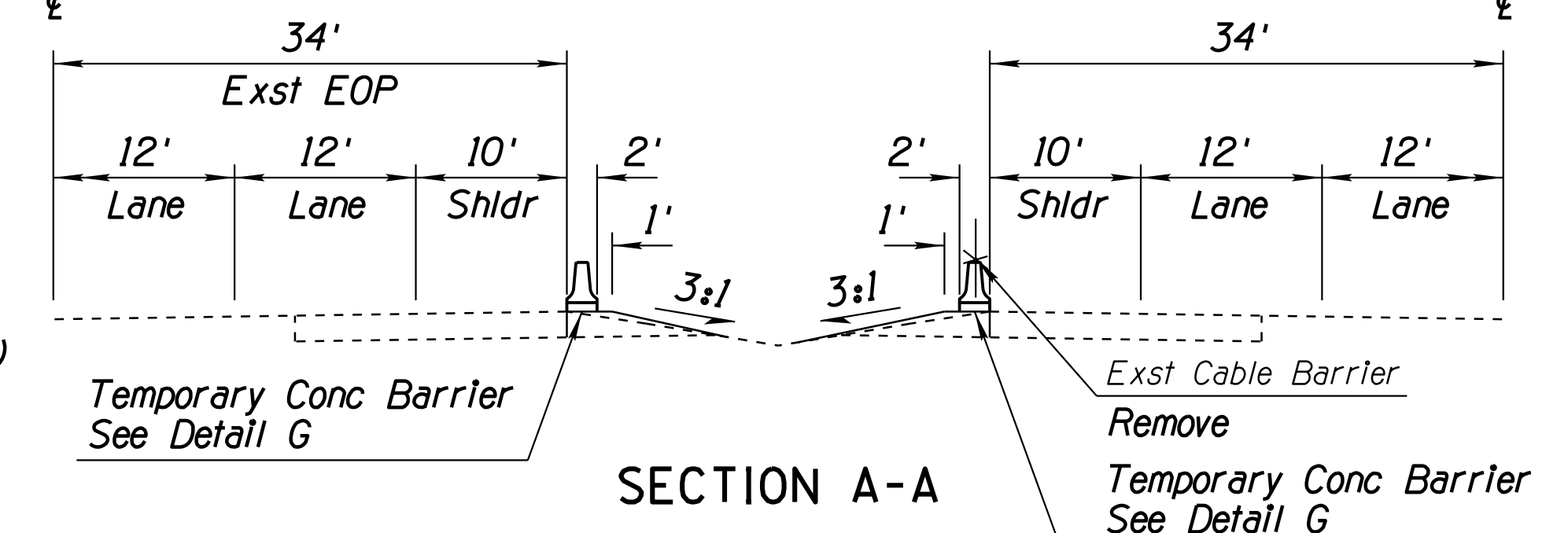
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	96	849	

010 PM 252

EXISTING GEOMETRIC DATA			
PLAN REF NO.	STATION	NORTHING	EASTING
1	I-10 WB $\xi$ POT 5127+24.22	479333.660	969300.512
2	I-10 EB $\xi$ POT 5127+24.22	479284.850	969217.846
3	I-10 WB $\xi$ PI 5185+36.17	474374.275	972228.748
	I-10 WB $\xi$ PC 5165+35.25	476097.273	971211.415
	I-10 WB $\xi$ PT 5205+26.89	472854.610	973530.402
4	I-10 EB $\xi$ PI 5185+44.59	474318.218	972150.361
	I-10 EB $\xi$ PC 5165+35.25	476048.463	971128.749
	I-10 EB $\xi$ PT 5205+43.68	472792.160	973457.491



- NOTE:**
- For additional information on TCB, See typical section Dwg No. G-4.01.
  - See Detail G and Traffic Standard Drawing C-3 for additional information on Pinning the Concrete Barrier to the Roadway.
  - Existing geometry data shown on this sheet is to be used for the sole purpose of the placement of AC millings/AB (Class 3) for the supporting of the TCB.
  - For removals, See Removal Sheets.



# DETAIL W

SHEET 1 of 2  
**PRECAST CONCRETE BARRIER PLACEMENT**

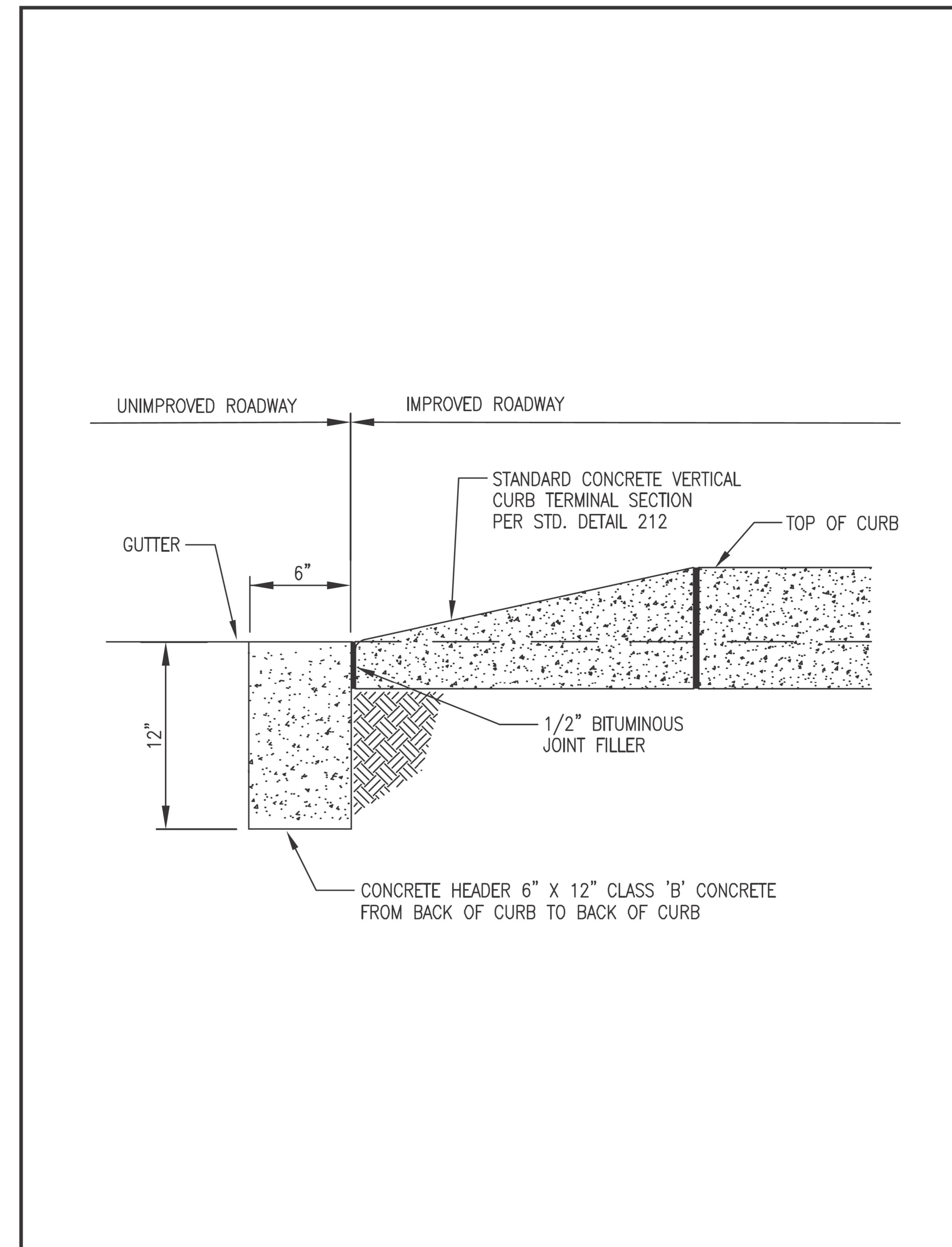
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>DETAIL SHEET          DETAIL W</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					Expires 9/30/2019 DWG NO. G-12.31 OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	98	849	

010 PM 252



	DETAIL NO.	STANDARD DETAIL	ISSUED:
	213	CONCRETE HEADER	10/88
	SHEET 1 of 1		REVISED: 7/02

# DETAIL X

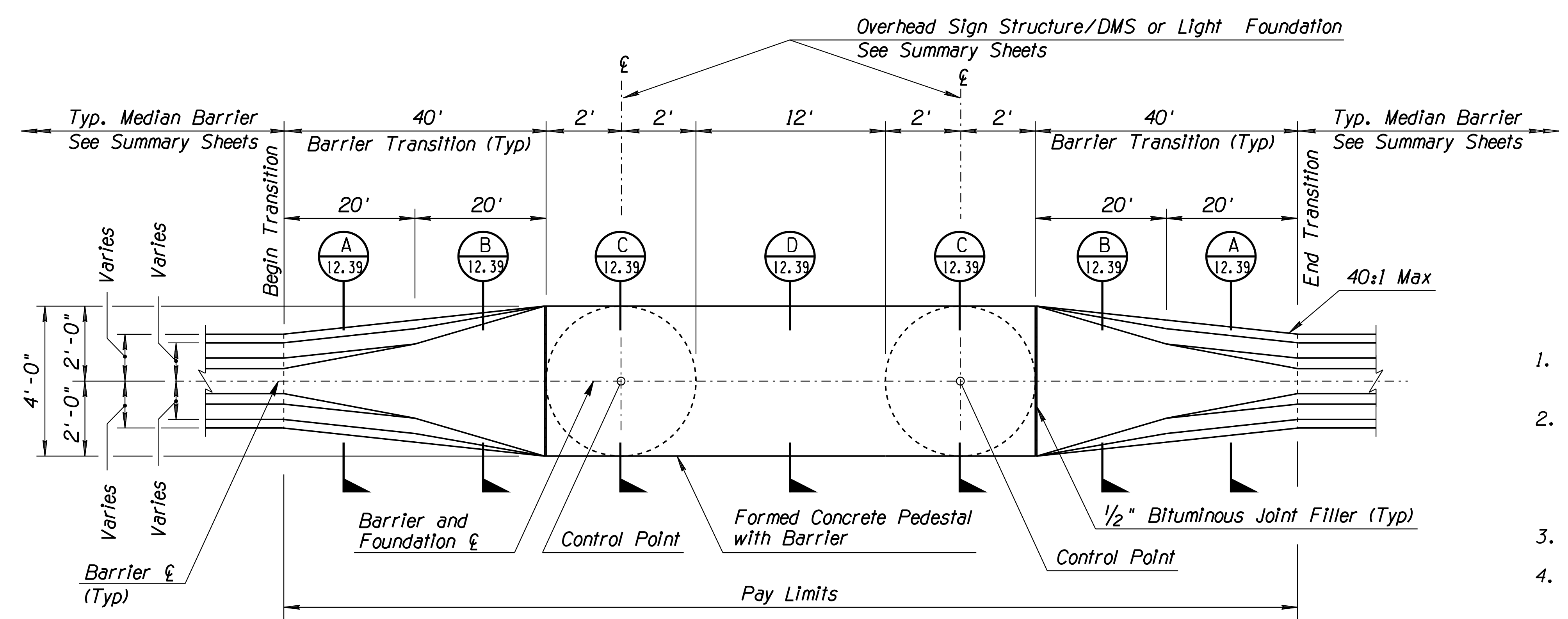
## CONCRETE HEADER PAG DTL 213

DESIGN	V. CASTANEDA	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. BACON	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		ROUTE 1-10		LOCATION RUTHRAUFF T1	DWG NO. G-12.33
TRACS NO. H8480 OIC			010-D(213)S		OF

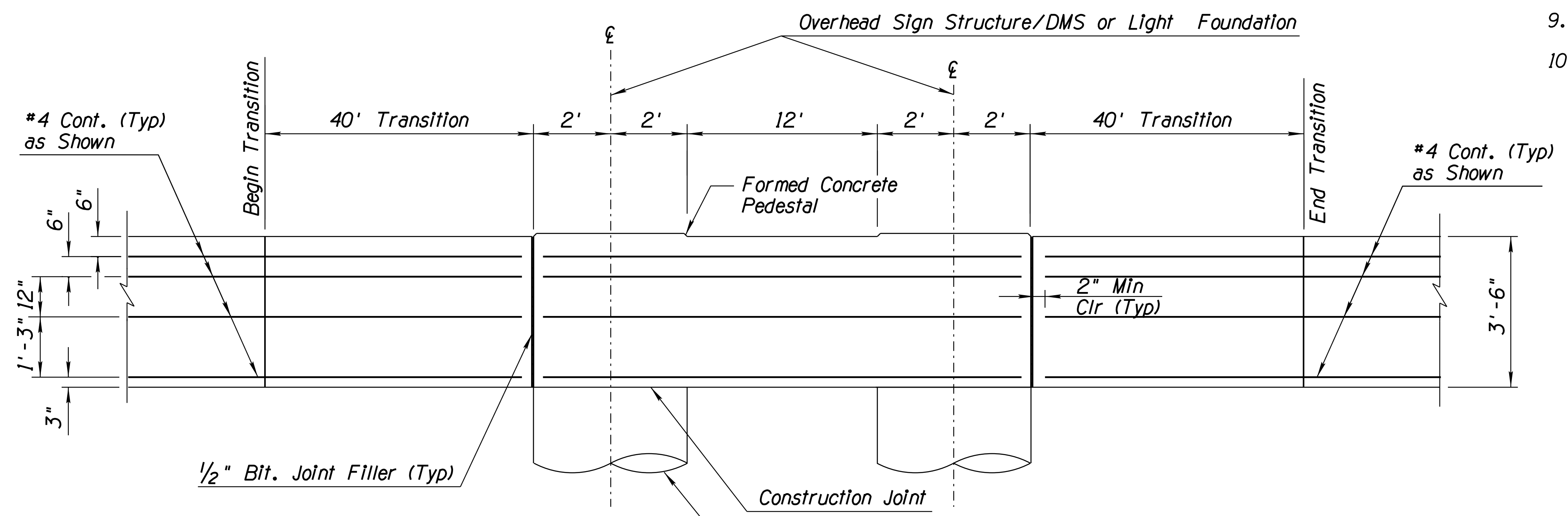
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE FINISHED PLANS SURVEY NO. DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	99	849	

010 PM 252



**PLAN**  
No Scale



**ELEVATION**  
No Scale

**NOTES:**

1. Construction Specifications - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, Edition 2008.
2. Design Specifications - AASHTO LRFD Design Specifications, 7th Edition, with 2015 and 2016 Interim Revisions.  
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th Edition, 2013.
3. Concrete shall be Class 'S' with a 28 day compressive strength,  $f'_c = 3,500$  psi.
4. Reinforcing steel shall conform to ASTM Specification A615. All reinforcing steel shall be furnished as Grade 60.
5. Median Barrier Transition shall be constructed by the formed cast-in-place method.
6. In no case shall the width of barrier exceed the width of the barrier footing or overhang the adjacent pavement.
7. Provide 2'-0 minimum lap of rebar from Section A to Section B, if required.
8. Refer to the project lighting or signing sheets for additional information.
9. Refer to ADOT Std Dtl C-10.41 for additional information.
10. This work is being paid under Item No. 9100115, Concrete Barrier Transition (Detail Y) (Each).

**DETAIL Y**  
Sheet 1 of 2

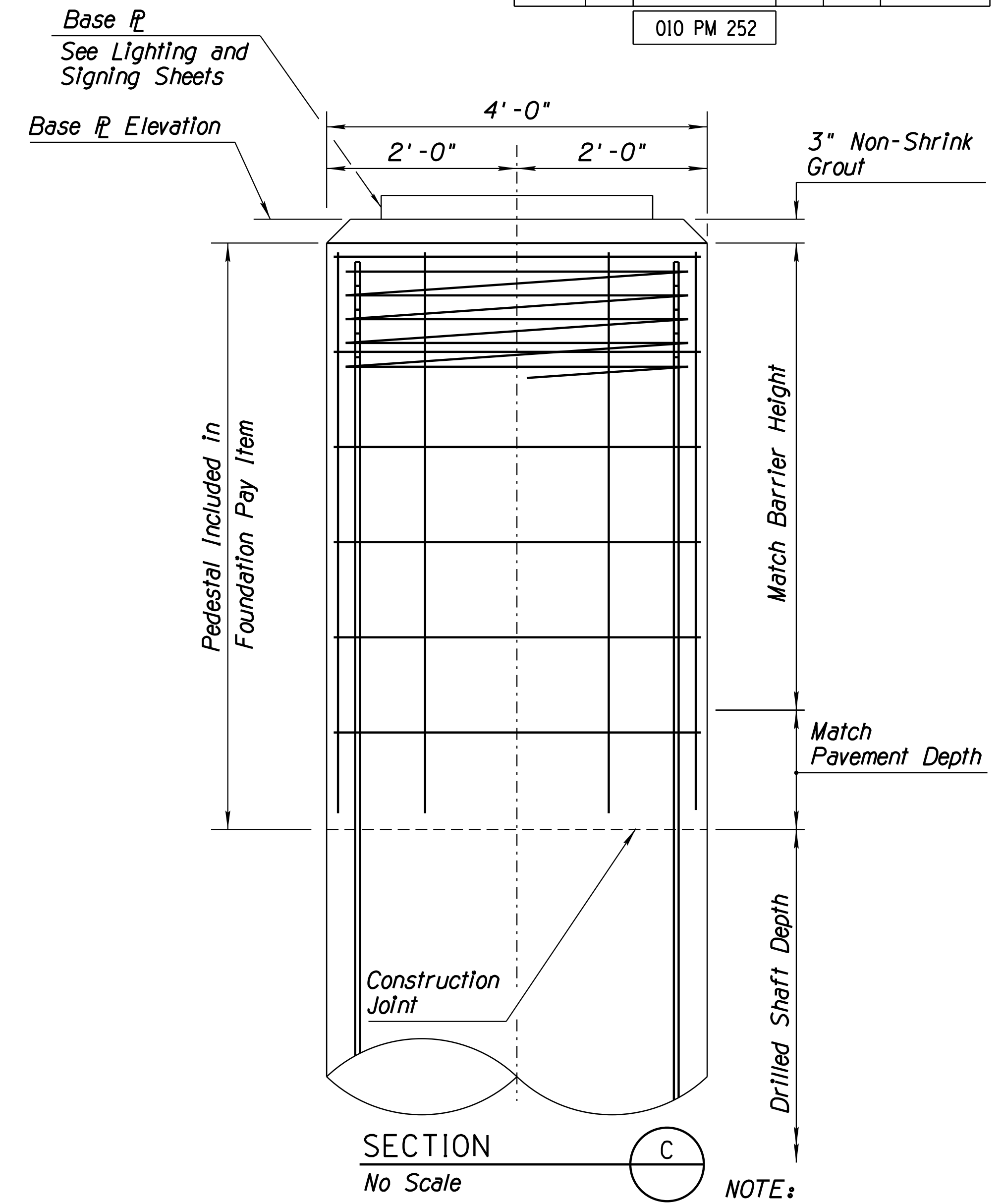
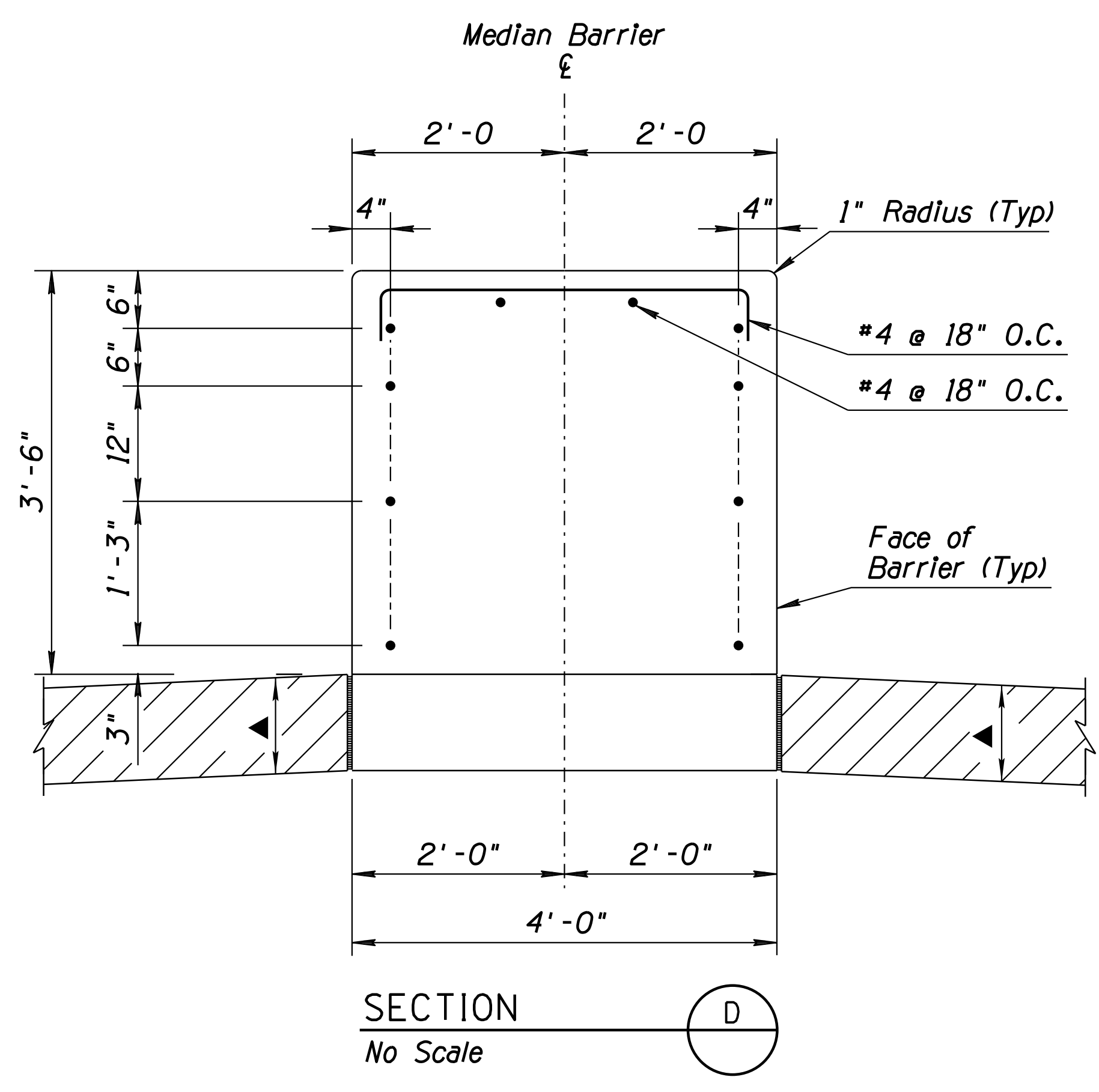
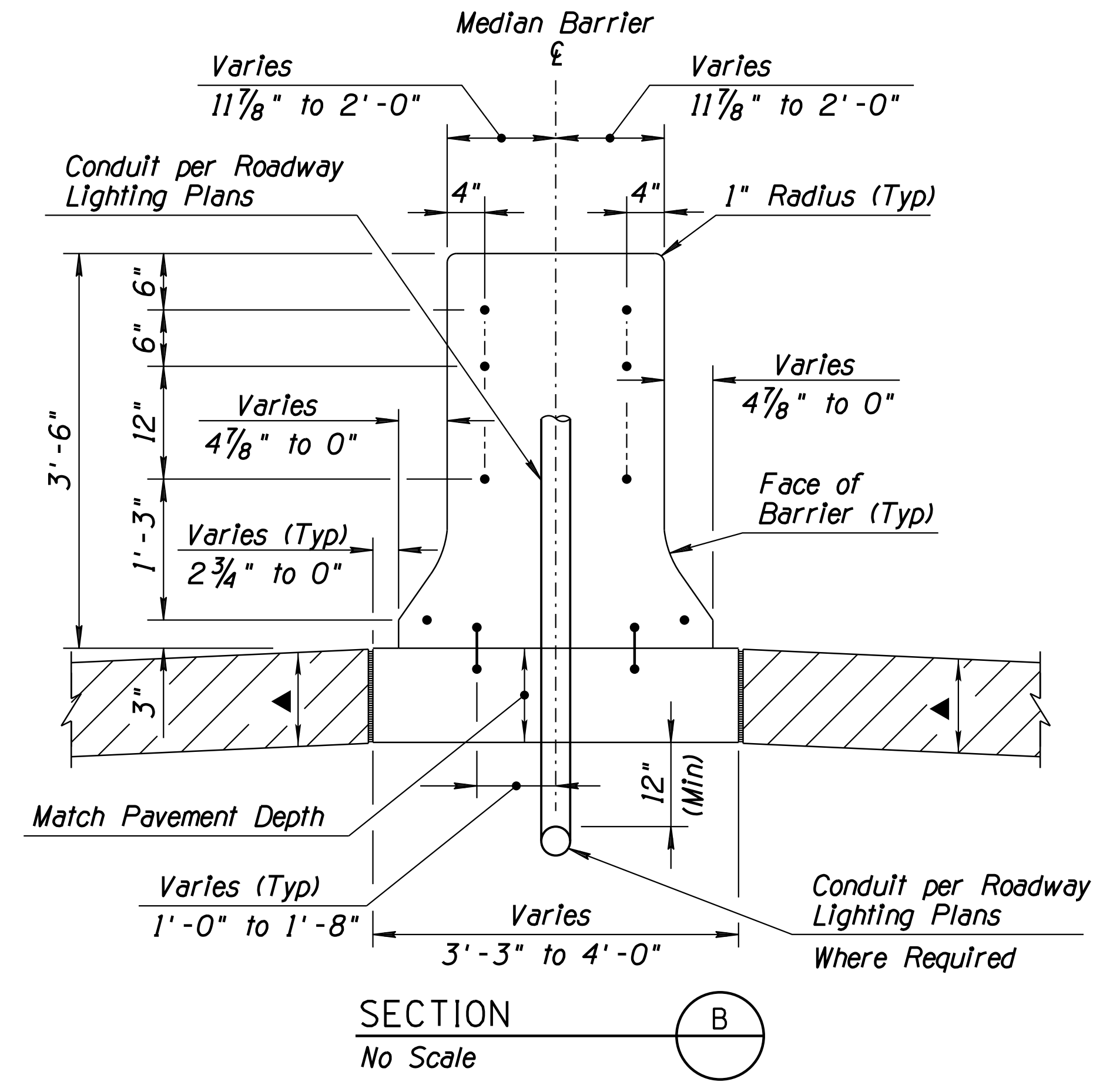
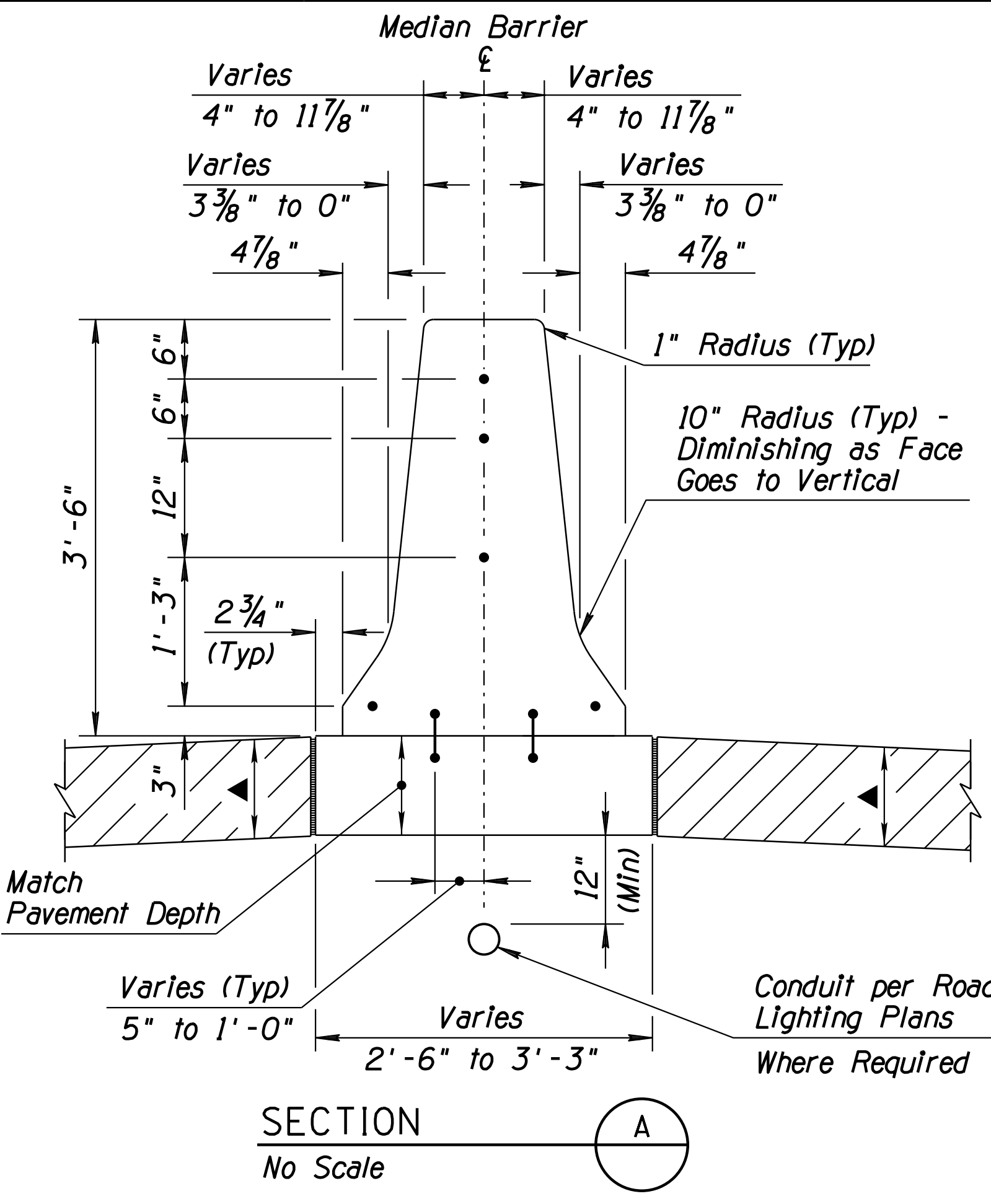
**CONCRETE BARRIER TRANSITION  
AT COMBINATION OVERHEAD  
LIGHT POLE AND SIGN FOUNDATION**

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>DETAIL SHEET DETAIL Y</b>
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. G-12.34 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	100	849	

010 PM 252

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



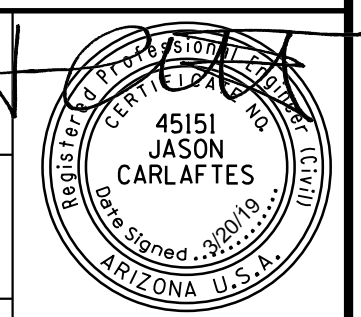
NOTE:  
For information not shown, see Lighting or Signing sheets.

- NOTES:
1. See Dwg No. G-12.38 for Notes and Details.
  2. See the Lighting and Signing Sheets for additional information not shown.
- ▲ See Typical and Pavement Structural Sections for PCCP Thickness.

# DETAIL Y

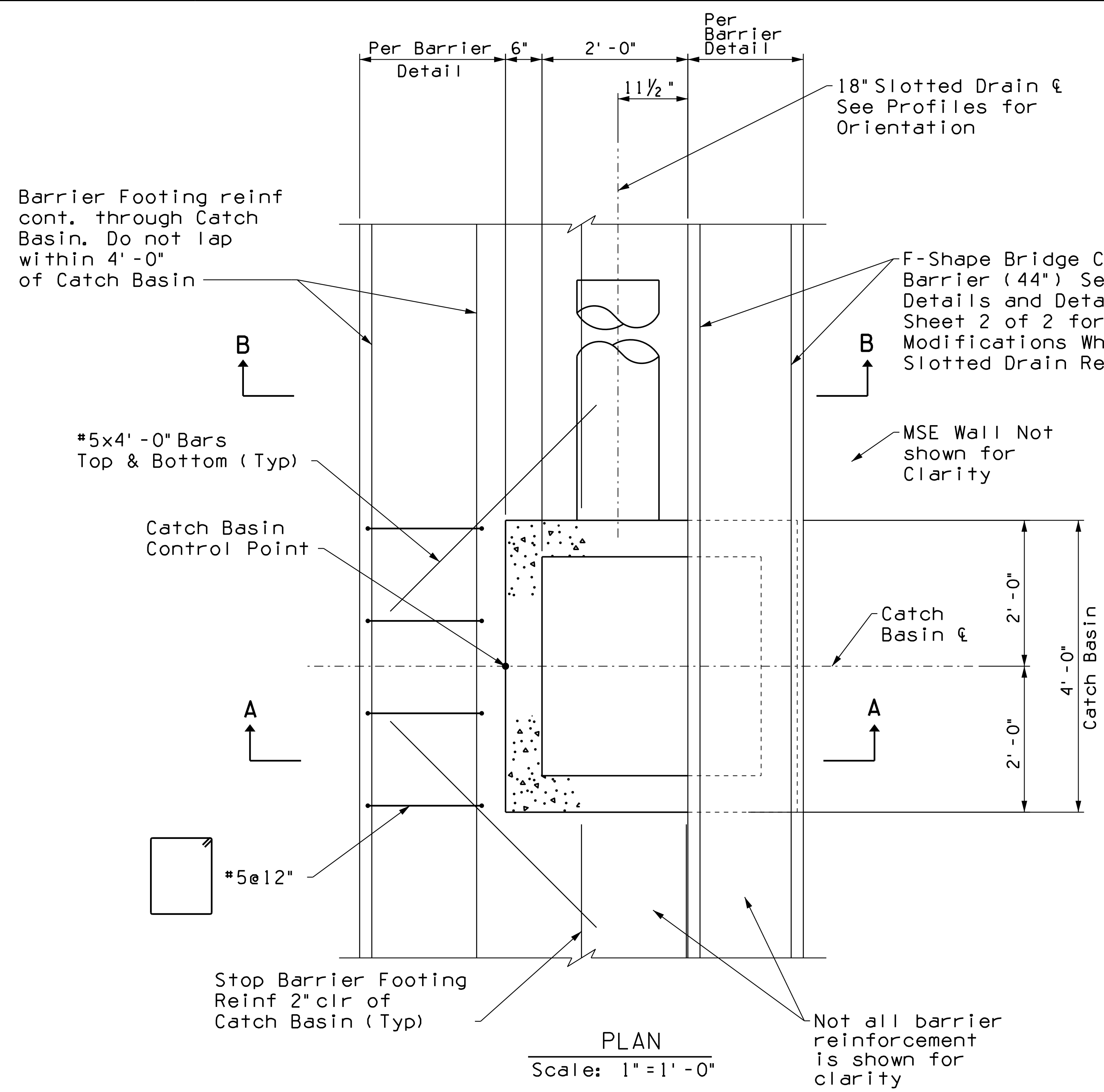
Sheet 2 of 2  
CONCRETE BARRIER TRANSITION  
AT COMBINATION OVERHEAD  
LIGHT POLE AND SIGN FOUNDATION

DESIGN	JC	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
ROUTE		LOCATION		DETAIL SHEET DETAIL Y
1-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. G-12.35

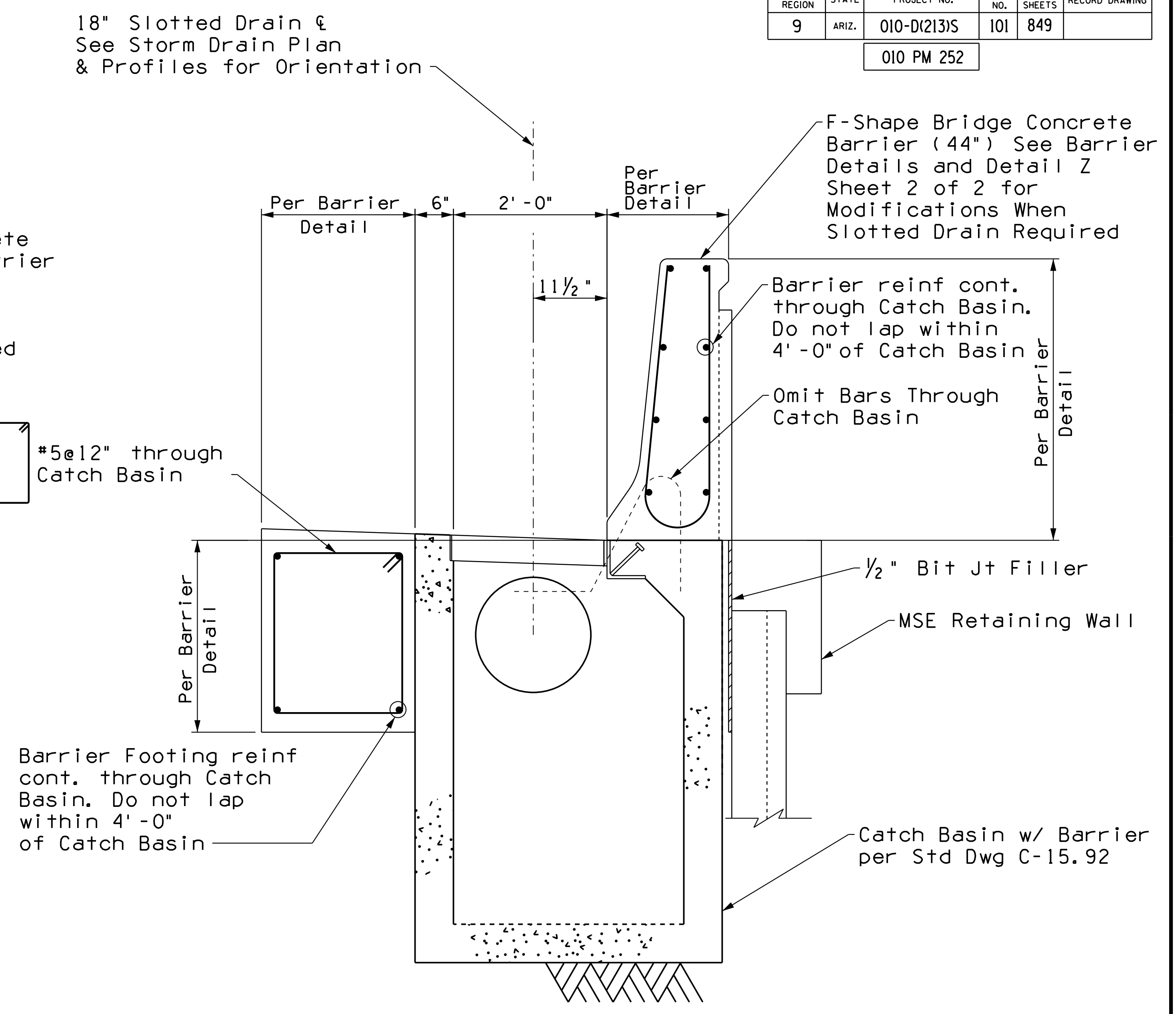


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	101	849	

010 PM 252



PLAN  
Scale: 1" = 1'-0"



SECTION A-A  
Scale: 1" = 1'-0"

**NOTES:**

1. All concrete shall be Class 'S' (f'c=4000 psi).
2. Reinforcing shall conform to Specification ASTM A615. All reinforcing shall be furnished Grade 60.
3. All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions shall be to center of bars unless noted otherwise.
4. All reinforcing steel shall have 2" clear cover unless noted otherwise.
5. See Storm Drain Profiles for locations and elevations.
6. See New Pipe Summary for size and type of new catch basin and storm drain.
7. See Barrier Summary Sheets for location and type of barrier.
8. No separate payment will be made for modification shown in this detail. The cost is considered included with the barrier item associated with this location.

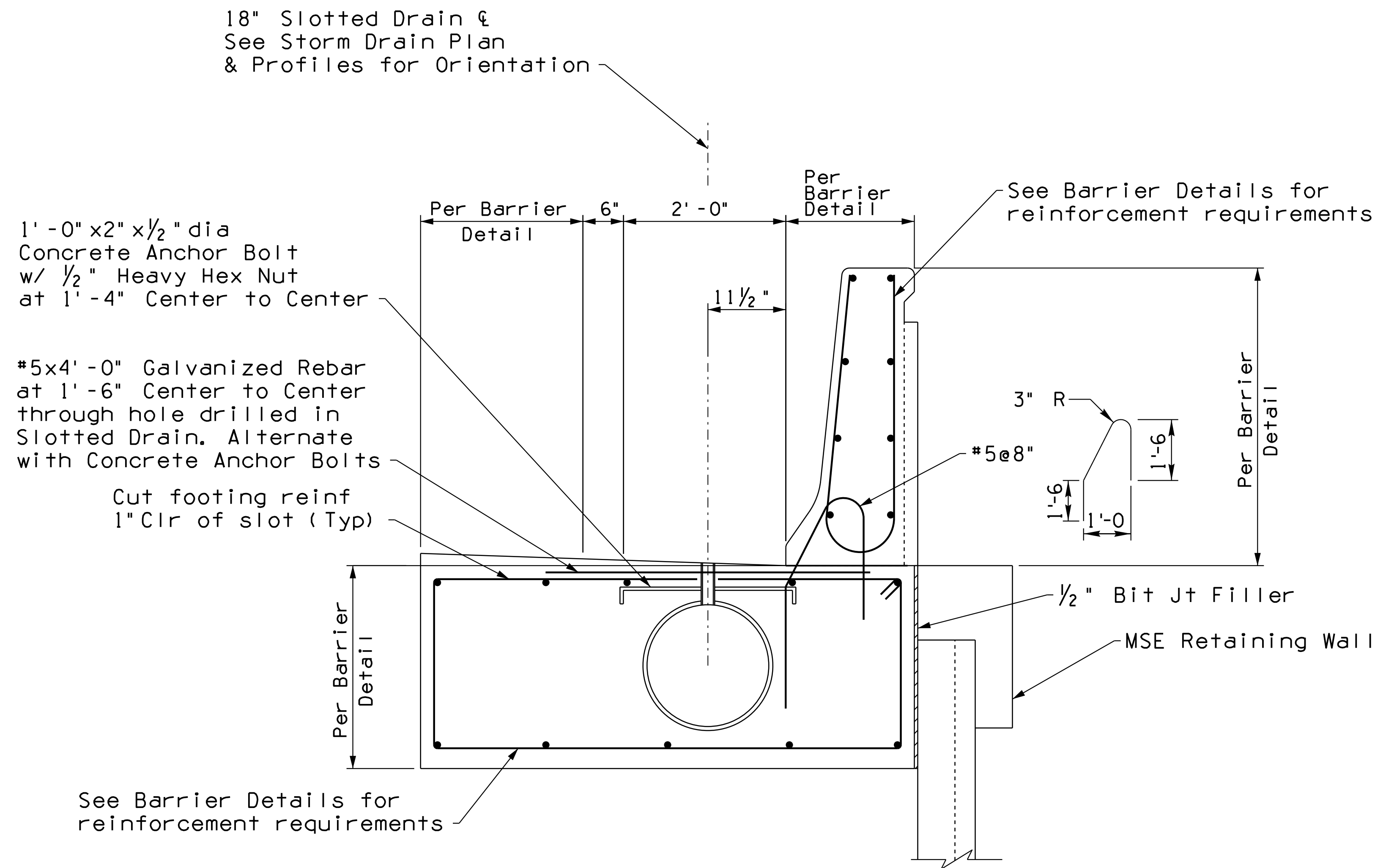
# DETAIL Z

Sheet 1 of 2  
CATCH BASIN FOR STRUCTURAL  
HALF BARRIER SLAB  
ADJACENT TO RETAINING WALL

DESIGN	JAC	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	DAY	3-19	
CHECKED	JK	3-19	
			<b>DETAIL SHEET DETAIL Z</b>
ROUTE	LOCATION		
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	Expires 9/30/2021 DWG NO. G-12.36

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	102	849	

010 PM 252



SECTION B-B  
Scale: 1" = 1'-0"


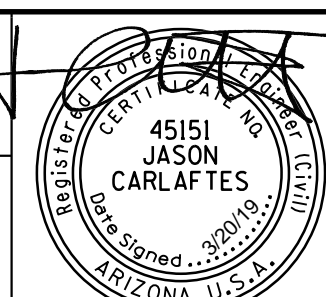
**NOTES:**

- All concrete shall be Class 'S' ( $f'c=4000$  psi).
- Reinforcing shall conform to Specification ASTM A615. All reinforcing shall be furnished Grade 60.
- All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions shall be to center of bars unless noted otherwise.
- All reinforcing steel shall have 2" clear cover unless noted otherwise.
- The slotted drain shall be constructed per Std Dwg C-13.60 and as modified herein.
- 1/2" Dia galvanized threaded steel rod can be used in lieu of galvanized #5 rebar for the Modified Slot Detail.
- Construct slotted drain & gutter pan per the inlet depression detail. See also Std Det C-15.70 for limits of curb depression.
- Set 1" gutter depression to match catch basin grate elevation where slotted drain joins catch basin. When Inlet Depression Required.
- See New Pipe Summary for location and length of new slotted drain.
- No separate payment will be made for modification shown in this detail. The cost is considered included with the barrier item associated with this location.

# DETAIL Z

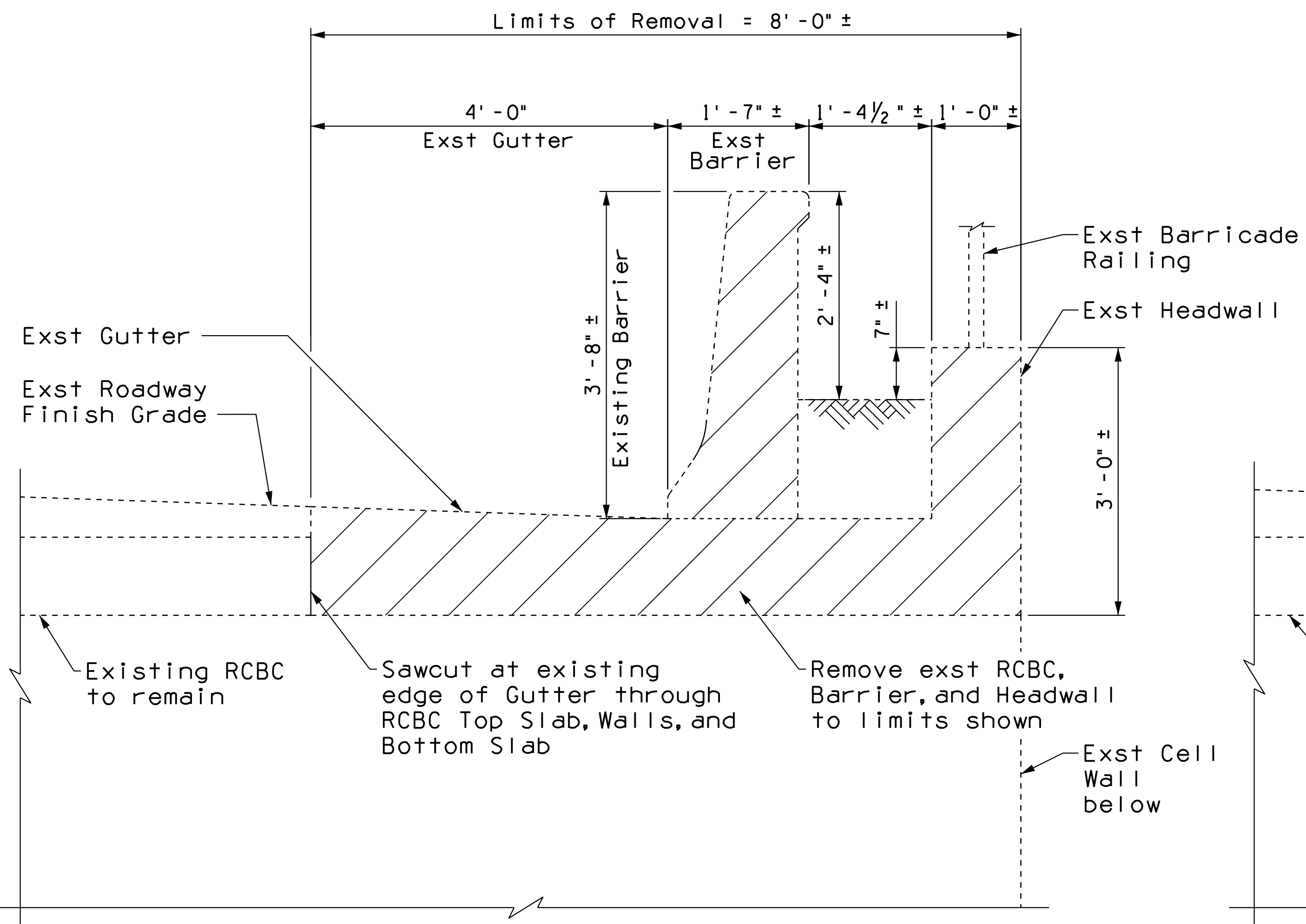
Sheet 2 of 2

CATCH BASIN FOR STRUCTURAL  
HALF BARRIER SLAB  
ADJACENT TO RETAINING WALL

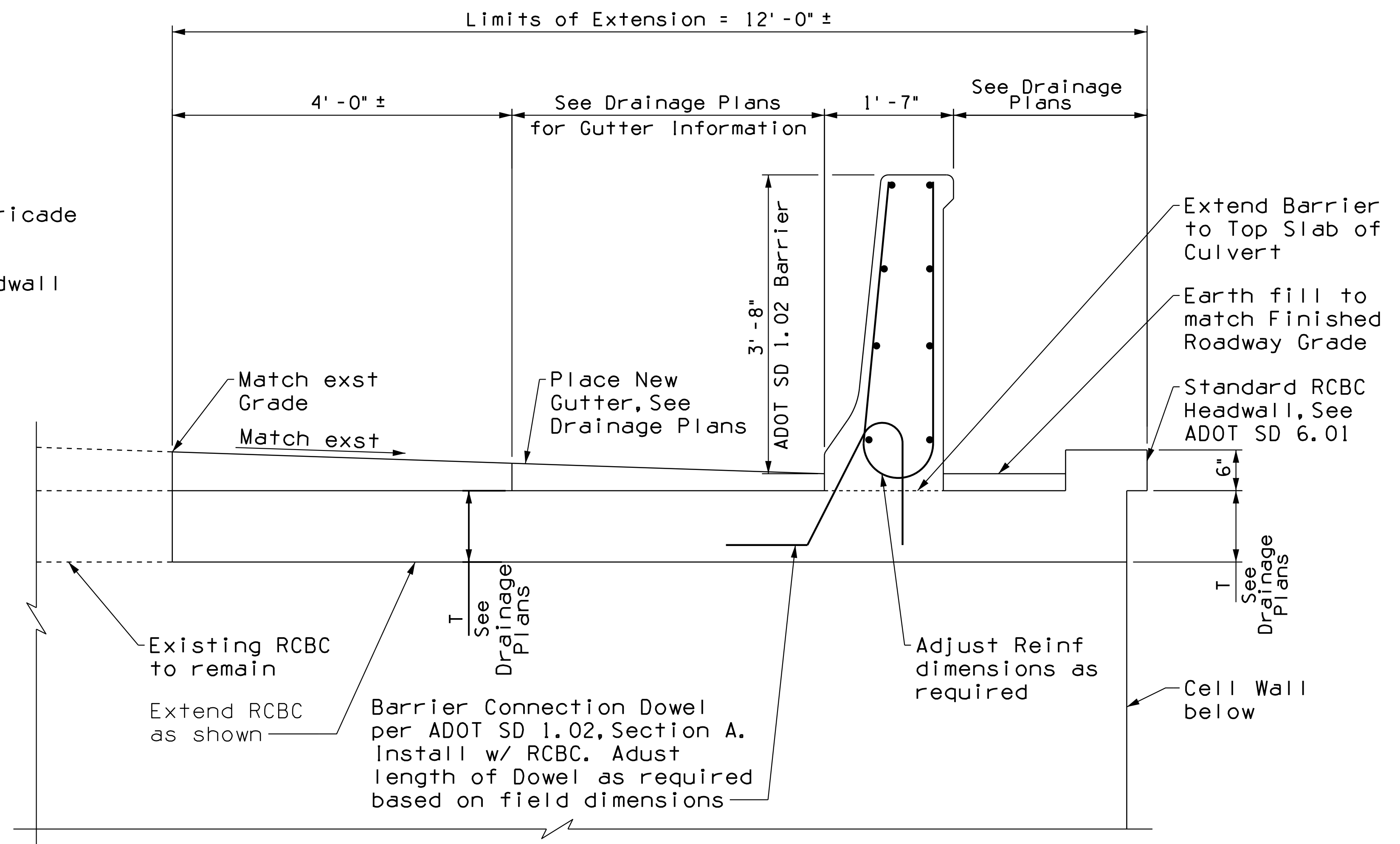
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JAC		3-19	
DAY		3-19	
CHECKED	JK	3-19	
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			45151 JASON CARLAFTES  Expires 9/30/2021 DWG NO. G-12.37
ROUTE	LOCATION		
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	103	849	

010 PM 252



DETAIL - DEMOLITION  
Scale: 1" = 1'-0"



DETAIL - NEW BARRIER AT EXST RCBC  
Scale: 1" = 1'-0"

**NOTES:**

1. Dimensions shown should be field verified prior to fabricating any materials. Dimensions are based on field measurements.
2. Std Dwg SD 1.02 has been modified to extend the barrier to the top slab of the new Reinforced Box Culvert
3. See Std Dwg SD 1.02 for General Notes and Details.
4. See Drainage Details for information on Reinforced Box Culvert including location, dimensions, and size.
5. Demolition and extension of existing RCBC is paid for as part of Detail DC05.
6. Barrier, including connection dowel, is paid by L.F.T. under Item No. 9100079 Concrete Barrier (SD 1.02, Integral w/ RCBC, Detail AA)
7. Transition from adjacent barrier to SD 1.02 barrier outside of culvert limits. See Detail R.

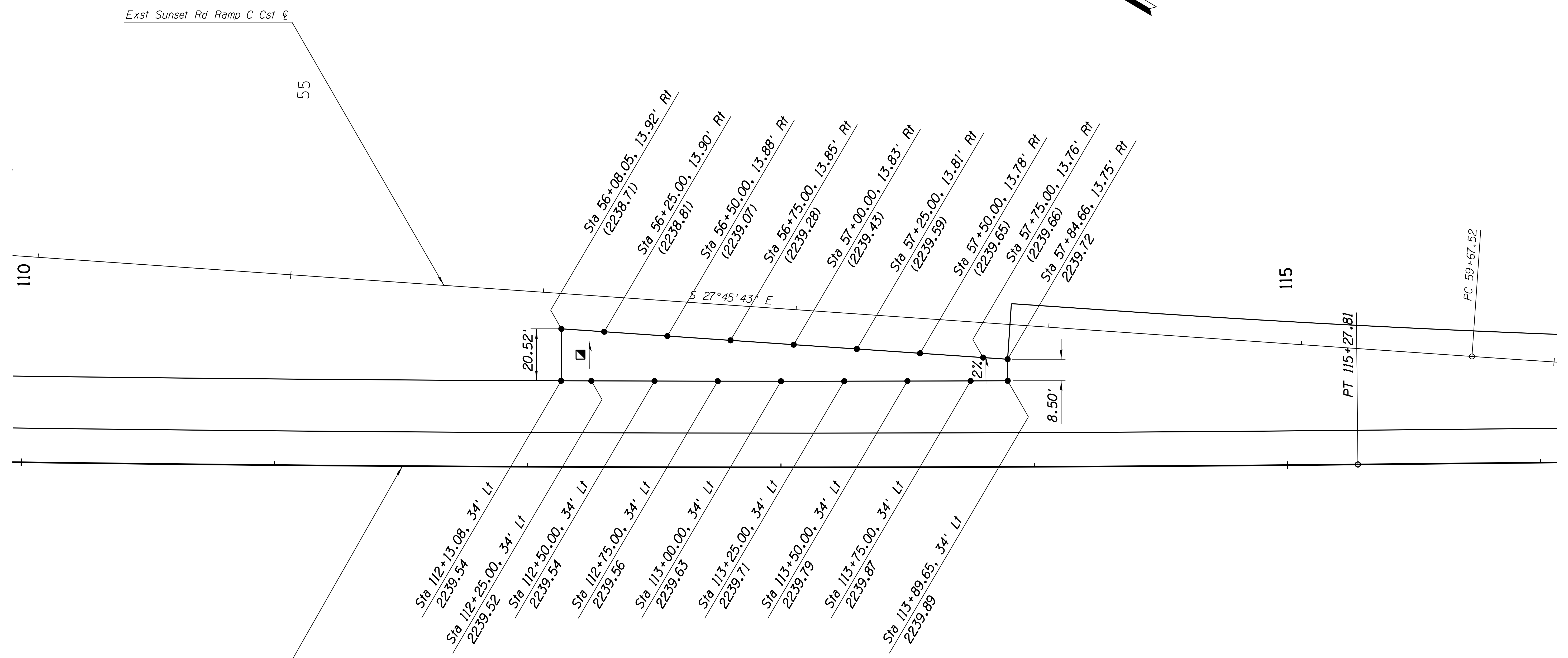
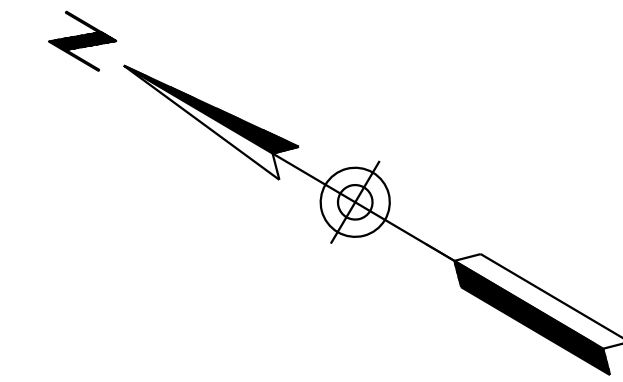
# DETAIL AA

ADOT SD 1.02 BARRIER  
INTEGRAL WITH EXISTING RCBC DC05

DESIGN	JAC	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	DAY	3-19	
CHECKED	JK	3-19	
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S	DWG NO. G-12.38

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	104	849	

010 PM 252



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

Exst Sunset Rd Ramp C Cst

55

110

115

S 27°45'43" E

20.52'

2%

8.50'

PT 115+27.81

PC 59+67.52

Sta 112+13.08, 34' Lt  
2239.54  
Sta 112+25.00, 34' Lt  
2239.52  
Sta 112+50.00, 34' Lt  
2239.54  
Sta 112+75.00, 34' Lt  
2239.56  
Sta 113+00.00, 34' Lt  
2239.63  
Sta 113+25.00, 34' Lt  
2239.71  
Sta 113+50.00, 34' Lt  
2239.79  
Sta 113+75.00, 34' Lt  
2239.87  
Sta 113+89.65, 34' Lt  
2239.89

Sta 56+08.05, 13.92' Rt  
(2238.71)  
Sta 56+25.00, 13.90' Rt  
(2238.81)  
Sta 56+50.00, 13.88' Rt  
(2239.07)  
Sta 56+75.00, 13.85' Rt  
(2239.28)  
Sta 57+00.00, 13.83' Rt  
(2239.43)  
Sta 57+25.00, 13.81' Rt  
(2239.59)  
Sta 57+50.00, 13.78' Rt  
(2239.65)  
Sta 57+75.00, 13.76' Rt  
(2239.66)  
Sta 57+84.66, 13.75' Rt  
2239.72

I-10 WB Interim Cst

**Notes:**

- Stations and offsets are based on I-10 Med or Exst Sunset Rd Ramp C Cst.
- Elevations in ( ) indicate existing elevations Contractor shall verify elevations prior to Construction.

■ G = ±4.05%

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING SHEET</b> <b>SUNSET ROAD RAMP C</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. G-13.01 OF







F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	107	849	

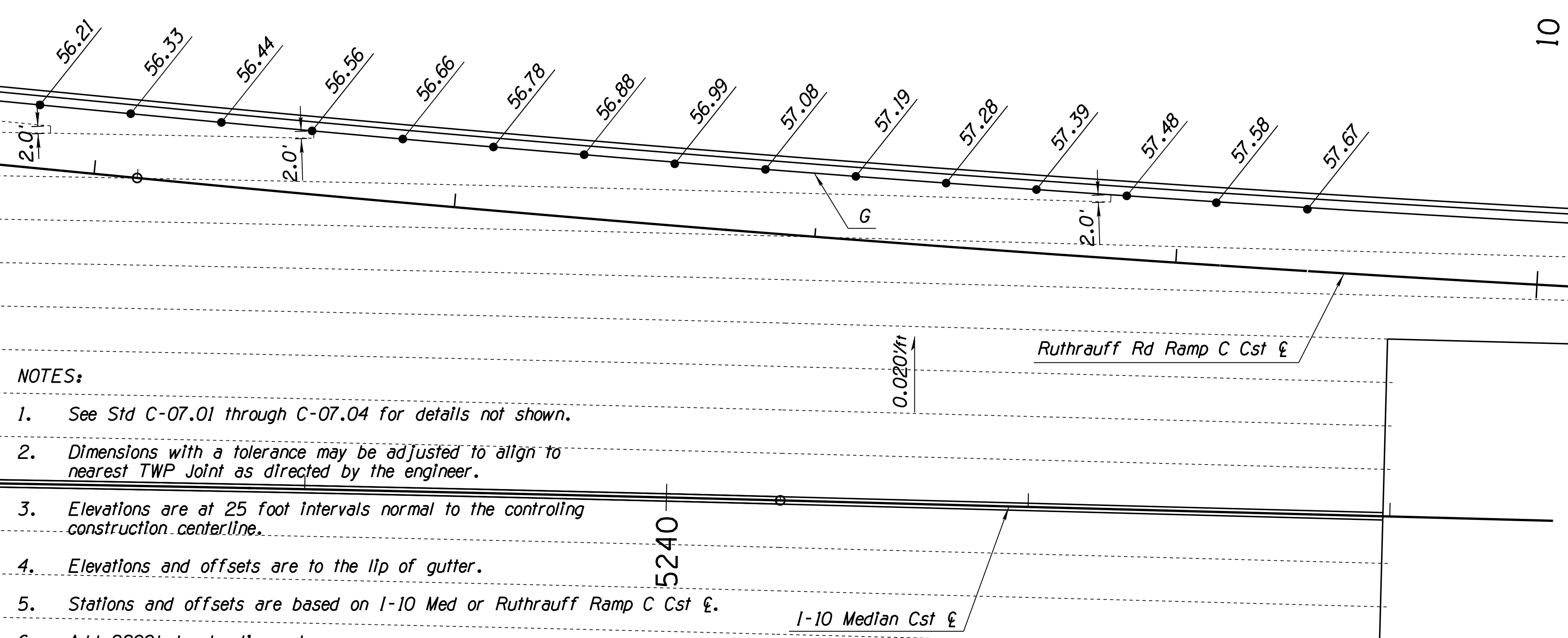
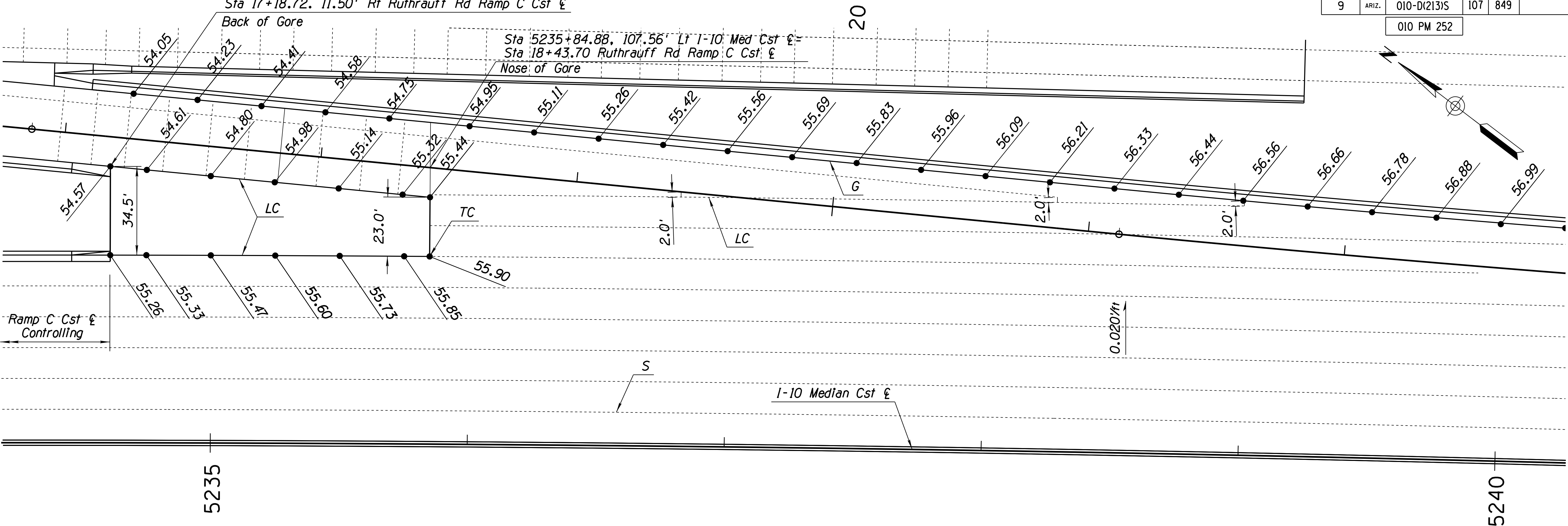
010 PM 252

Sta 5234+60.98, 107.51' Lt I-10 Med Cst £=  
Sta 17+18.72, 11.50' Rt Ruthrauff Rd Ramp C Cst £

Back of Gore

Sta 5235+84.88, 107.56' Lt I-10 Med Cst £=  
Sta 18+43.70 Ruthrauff Rd Ramp C Cst £

Nose of Gore



NOTES:

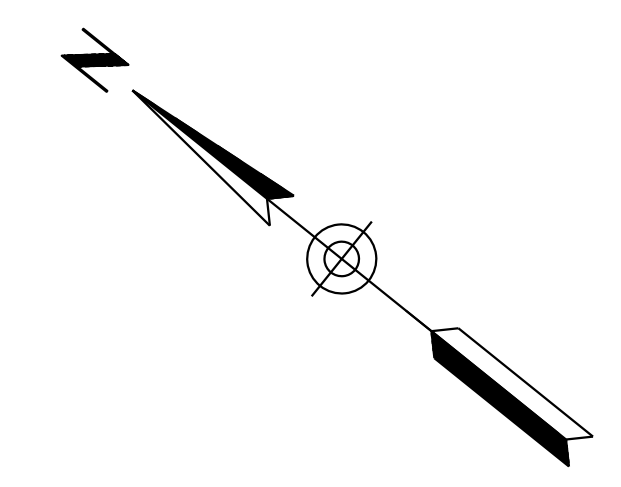
1. See Std C-07.01 through C-07.04 for details not shown.
2. Dimensions with a tolerance may be adjusted to align to nearest TWP Joint as directed by the engineer.
3. Elevations are at 25 foot intervals normal to the controlling construction centerline.
4. Elevations and offsets are to the lip of gutter.
5. Stations and offsets are based on I-10 Med or Ruthrauff Ramp C Cst £.
6. Add 2200' to elevations shown.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b> WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING PLAN          RUTHRAUFF RD RAMP C</b>		ROUTE LOCATION: I-10 RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC 010-D(213)S DWG NO. G-13.04 Expires 9/30/2019 OF	

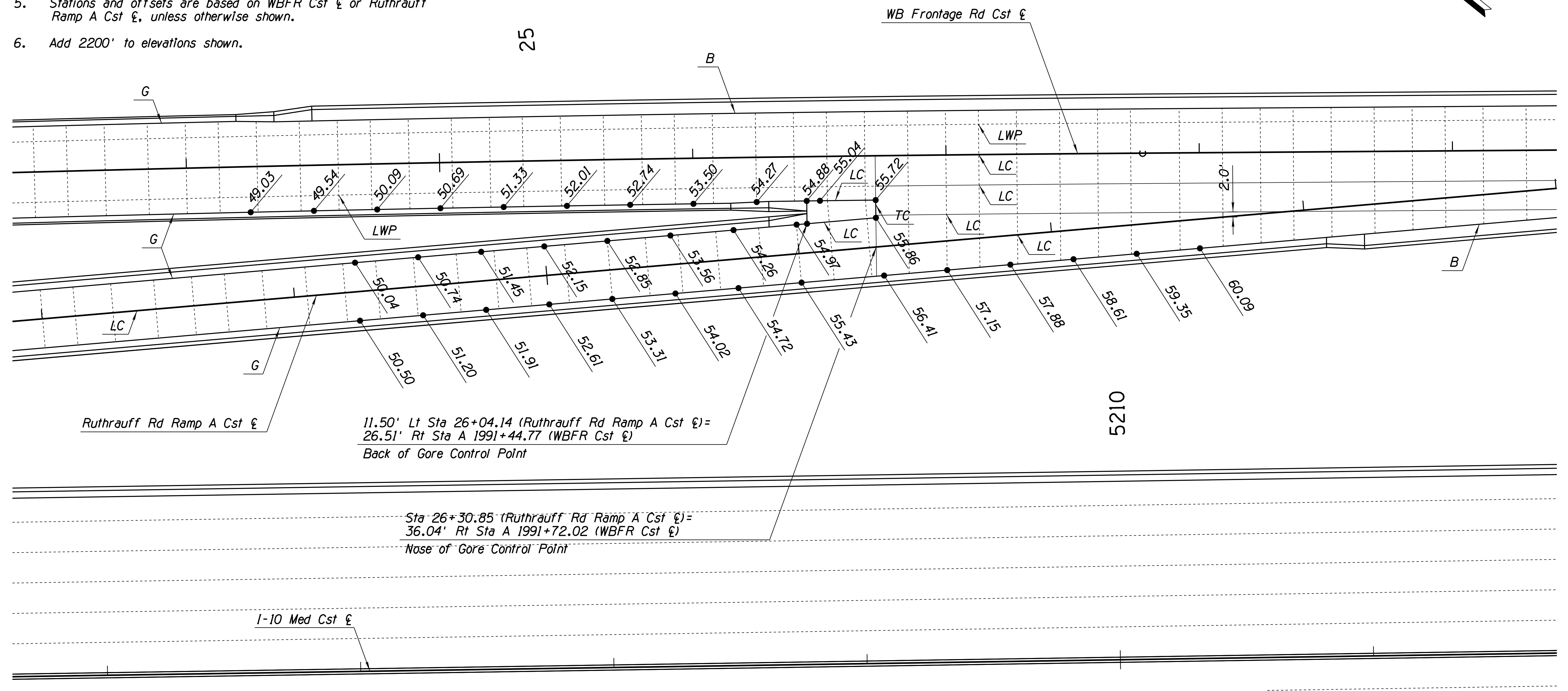


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	109	849	

010 PM 252



- NOTES:**
1. See Std C-07.01 through C-07.04 for details not shown.
  2. Dimensions with a tolerance may be adjusted to align to nearest TWP Joint as directed by the engineer.
  3. Elevations are at 25 foot intervals normal to the controlling construction centerline.
  4. Elevations and offsets are to the lip of gutter.
  5. Stations and offsets are based on WBFR Cst & or Ruthrauff Ramp A Cst &, unless otherwise shown.
  6. Add 2200' to elevations shown.



11.50' Lt Sta 26+04.14 (Ruthrauff Rd Ramp A Cst &)=  
26.51' Rt Sta A 1991+44.77 (WBFR Cst &)  
Back of Gore Control Point

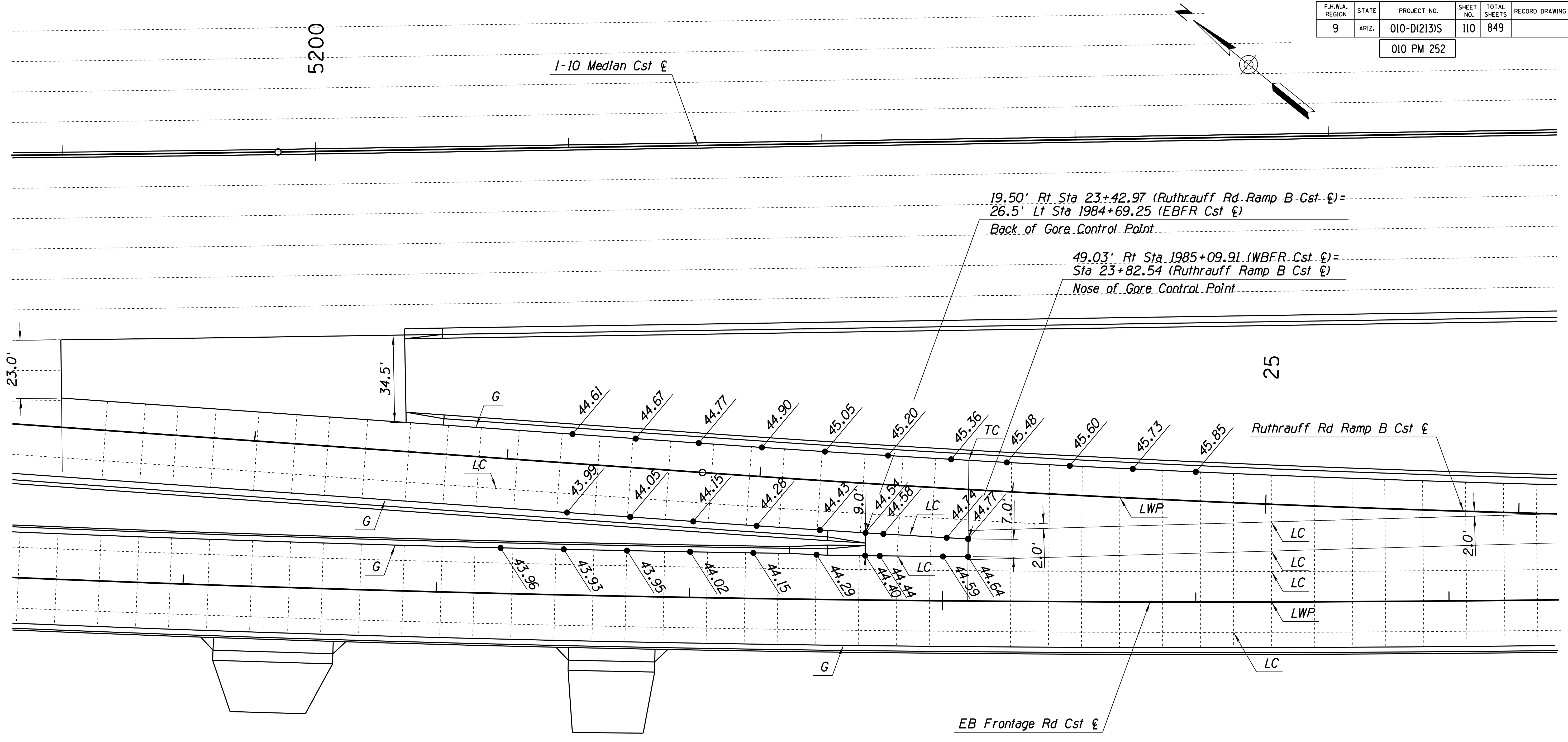
Sta 26+30.85 (Ruthrauff Rd Ramp A Cst &)=  
36.04' Rt Sta A 1991+72.02 (WBFR Cst &)  
Nose of Gore Control Point

DATE: LOCATION: REVISIONS: SURVEY NO. DATE: LOCATION: REVISIONS: SURVEY NO.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JK	DATE	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING PLAN RUTHRAUFF RD RAMP A</b>		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			Expires 9/30/2019
TRACS NO.	H 8480 OIC		010-D(213)S		DWG NO. G-13.06	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	110	849	

010 PM 252



**NOTES:**

1. See Std C-07.01 through C-07.04 for details not shown.
2. Dimensions with a tolerance may be adjusted to align to nearest TWP Joint as directed by the engineer.
3. Elevations are at 25 foot intervals normal to the controlling construction centerline.
4. Elevations and offsets are to the lip of gutter.
5. Stations and offsets are based on EBFR Cst £ or Ruthrauff Ramp B Cst £, unless otherwise shown.
6. Add 2200' to elevations shown.

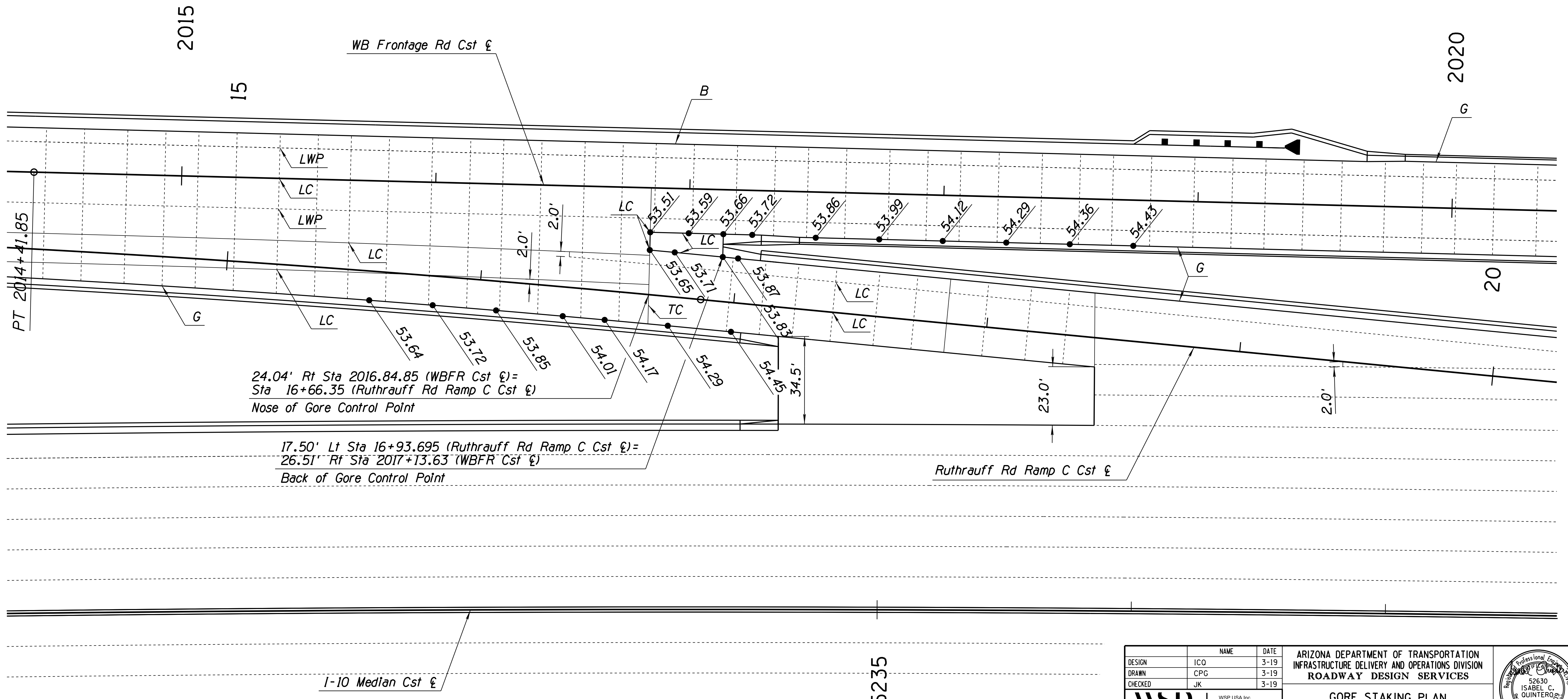
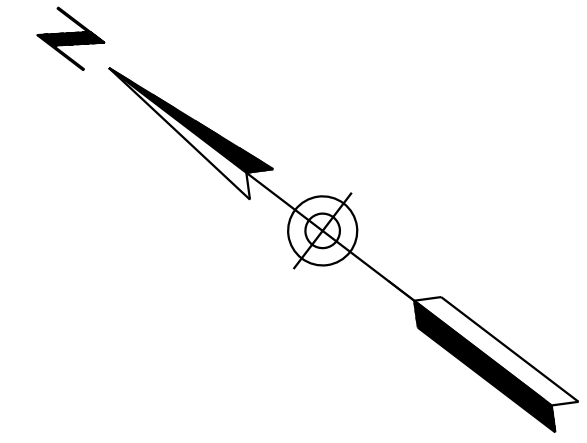
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING PLAN RUTHRAUFF RD RAMP B</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					Expires 9/30/2019 DWG NO. G-13.07 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	III	849	

010 PM 252

**NOTES:**

1. See Std C-07.10 through C-07.04 for details not shown.
2. Dimensions with a tolerance may be adjusted to align to nearest TWP Joint as directed by the engineer.
3. Elevations are at 25 foot intervals normal to the controlling construction centerline.
4. Elevations and offsets are to the lip of gutter.
5. Stations and offsets are based on WBFR Cst  $\ell$  or Ruthrauff Rd Ramp C Cst  $\ell$ .
6. Add 2200' to elevations shown.



24.04' Rt Sta 2016.84.85 (WBFR Cst  $\ell$ ) =  
Sta 16+66.35 (Ruthrauff Rd Ramp C Cst  $\ell$ )  
Nose of Gore Control Point

17.50' Lt Sta 16+93.695 (Ruthrauff Rd Ramp C Cst  $\ell$ ) =  
26.51' Rt Sta 2017+13.63 (WBFR Cst  $\ell$ )  
Back of Gore Control Point

I-10 Median Cst  $\ell$

5235

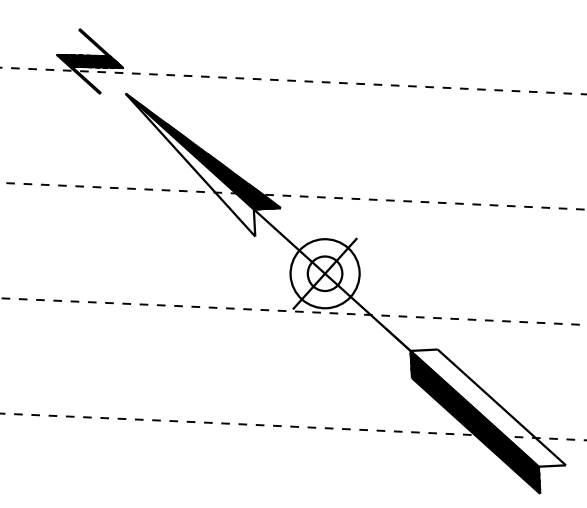
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING PLAN RUTHRAUFF RD RAMP C</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. G-13.08 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	112	849	

010 PM 252

5225



11.50' Rt Sta 19+60.50 (Ruthrauff Rd Ramp D Cst  $\xi$ ) =  
26.50' Lt Sta 2007+27.54 (EBFR Cst  $\xi$ )  
Back of Gore Control Point

36.03' Lt Sta 2006+95.18 (EBFR Cst  $\xi$ ) =  
Sta 19+28.76 (Ruthrauff Rd Ramp D Cst  $\xi$ )  
Nose of Gore Control Point

I-10 Median Cst  $\xi$

Ruthrauff Rd Ramp D Cst  $\xi$

EB Frontage Rd Cst  $\xi$

2005

20

**NOTES:**

1. See Std C-07.01 through C-07.04 for details not shown.
2. Dimensions with a tolerance may be adjusted to align to nearest TWP Joint as directed by the engineer.
3. Elevations are at 25 foot intervals normal to the controlling construction centerline.
4. Elevations and offsets are to the lip of gutter.
5. Stations and offsets are based on EBFR Cst  $\xi$  or Ruthrauff Rd Ramp D Cst  $\xi$ , unless otherwise shown.
6. Add 2200' to elevations shown.

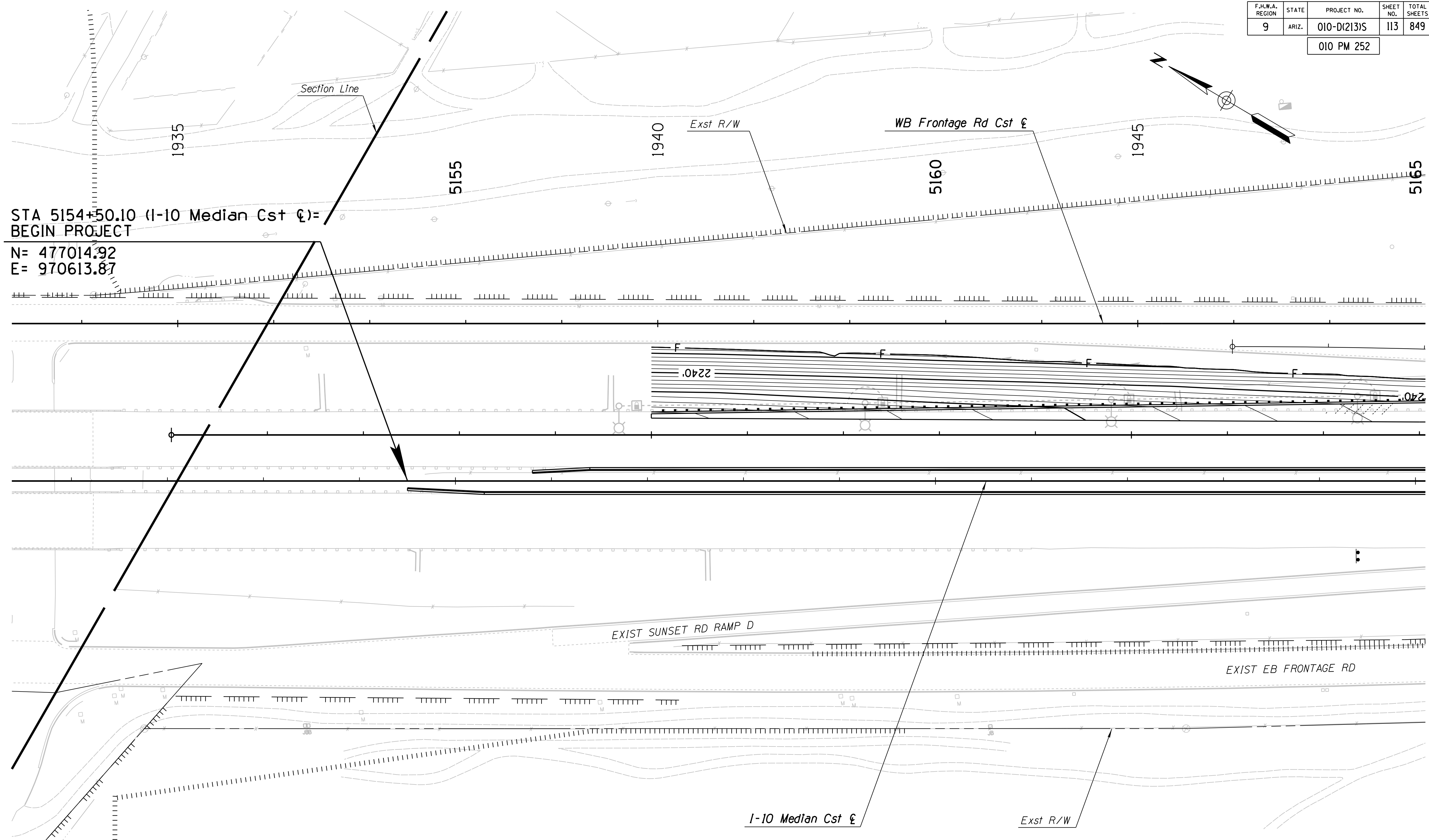
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GORE STAKING PLAN          RUTHRAUFF RD RAMP D</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C		010-D(213)S	Expires 9/30/2019 DWG NO. G-13.09 OF	

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	113	849	

010 PM 252

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



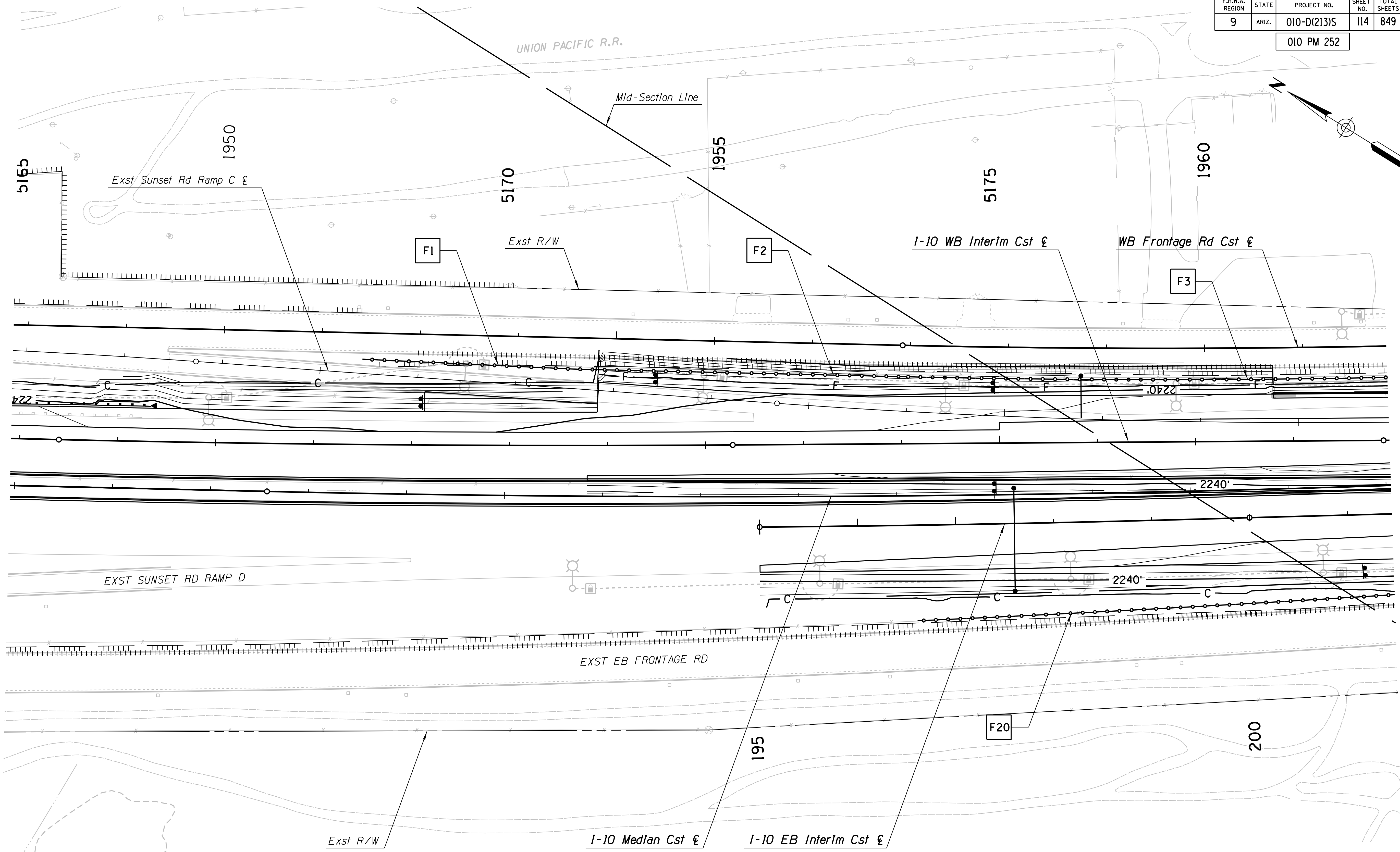
STA 5154+50.10 (I-10 Median Cst &)=  
 BEGIN PROJECT  
 N= 477014.92  
 E= 970613.87

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5151+00 to 5165+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	114	849	

010 PM 252



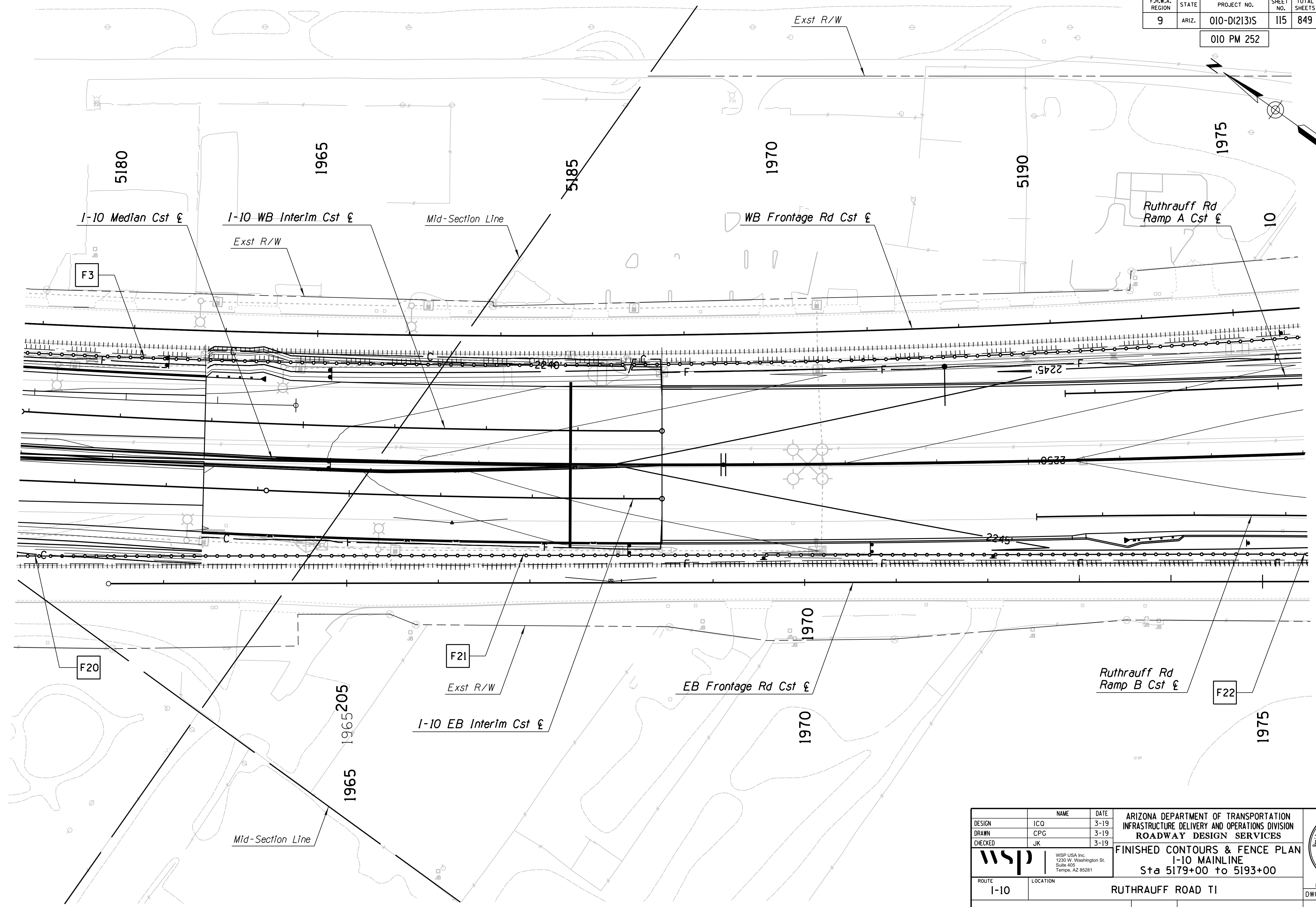
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5165+00 to 5179+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE I-10		LOCATION RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	115	849	

010 PM 252

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

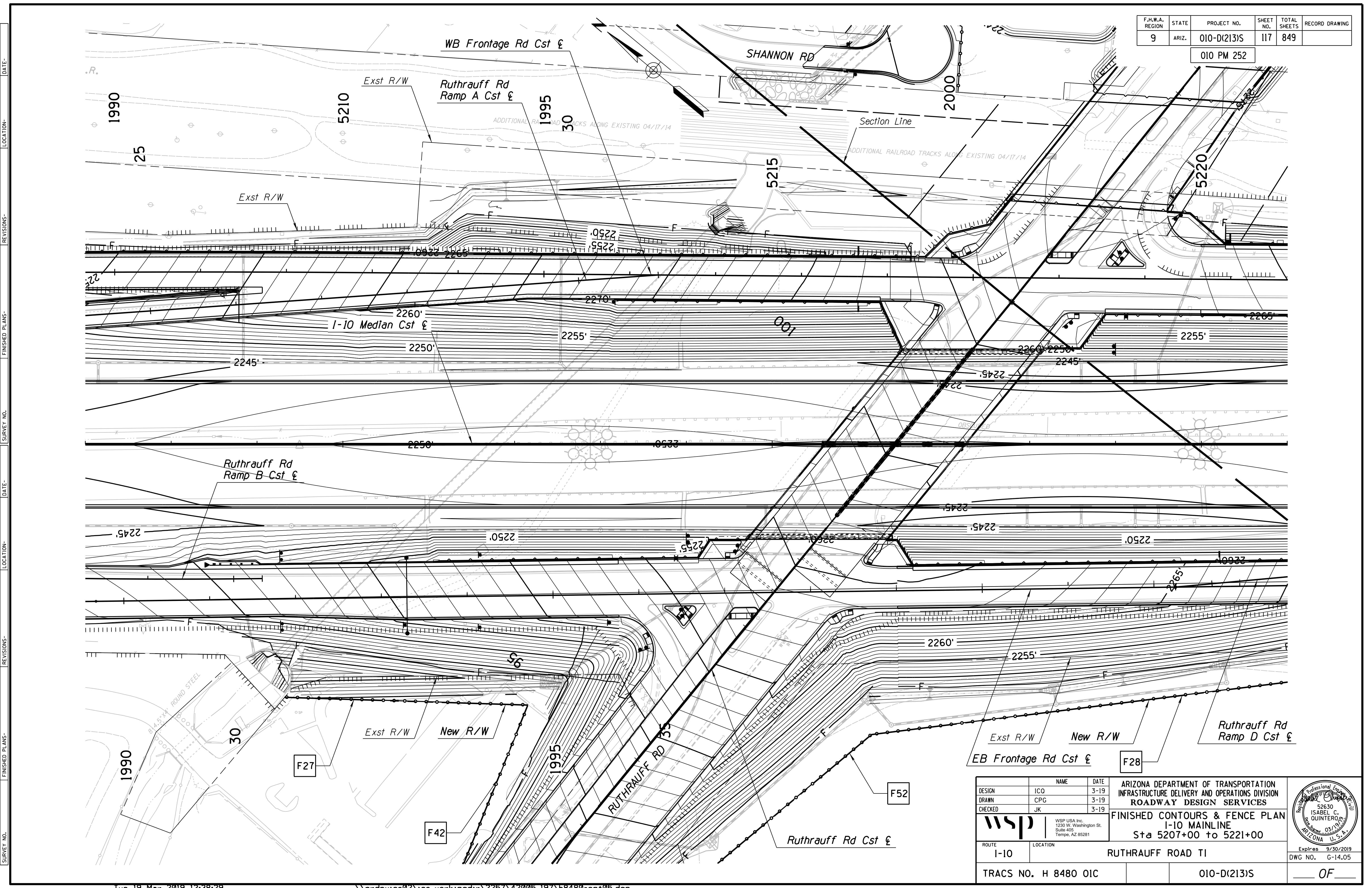


DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5179+00 to 5193+00</b>	
DRAWN	CPG	3-19			
CHECKED	JK	3-19			
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE <b>I-10</b>		LOCATION <b>RUTHRAUFF ROAD TI</b>	
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. G-14.03 <b>OF</b>



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	117	849	

010 PM 252

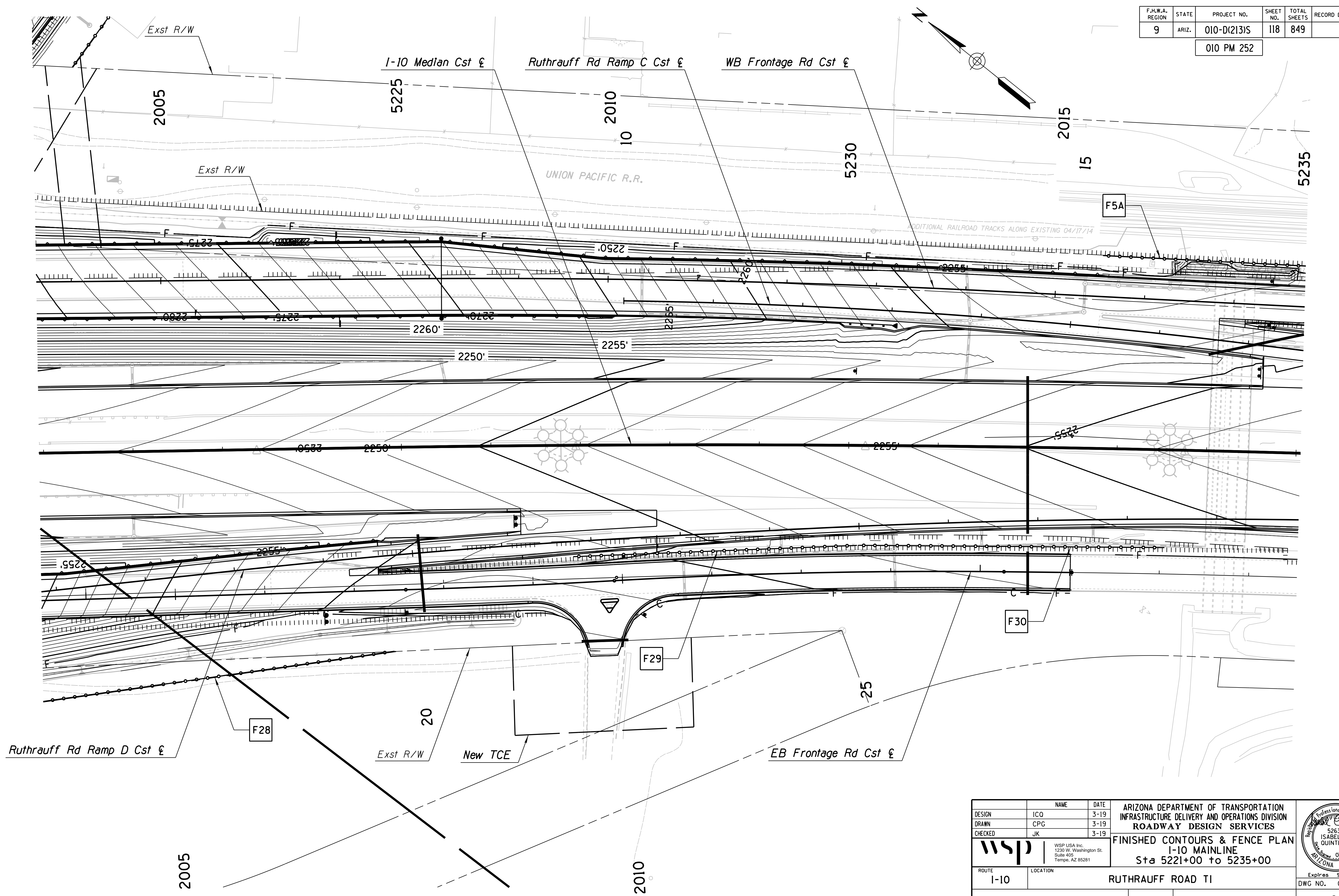
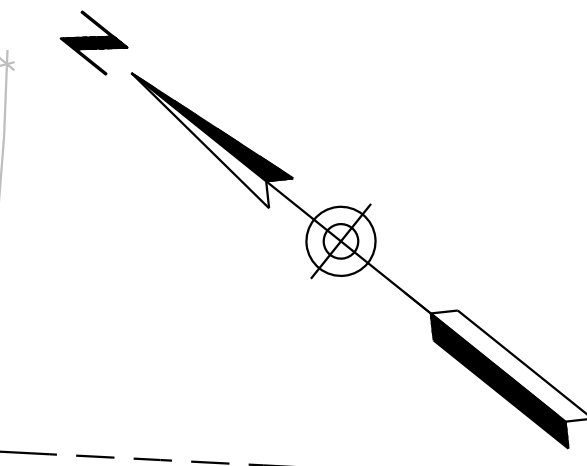


SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

DESIGN	ICO	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5207+00 to 5221+00</b>	
DRAWN	CPG		3-19		
CHECKED	JK		3-19		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		Expires 9/30/2019	
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. G-14.05	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	118	849	

010 PM 252

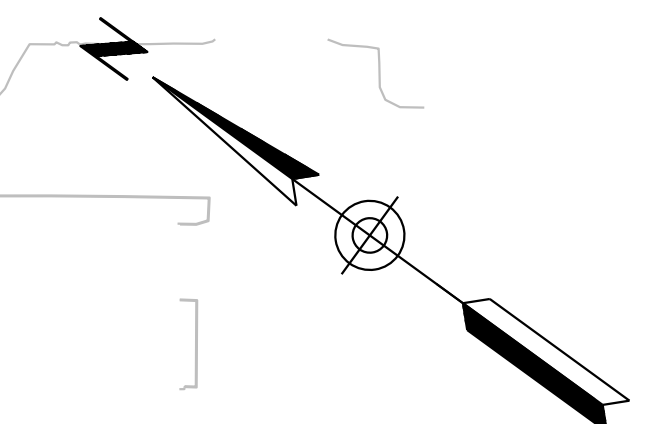


SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO.

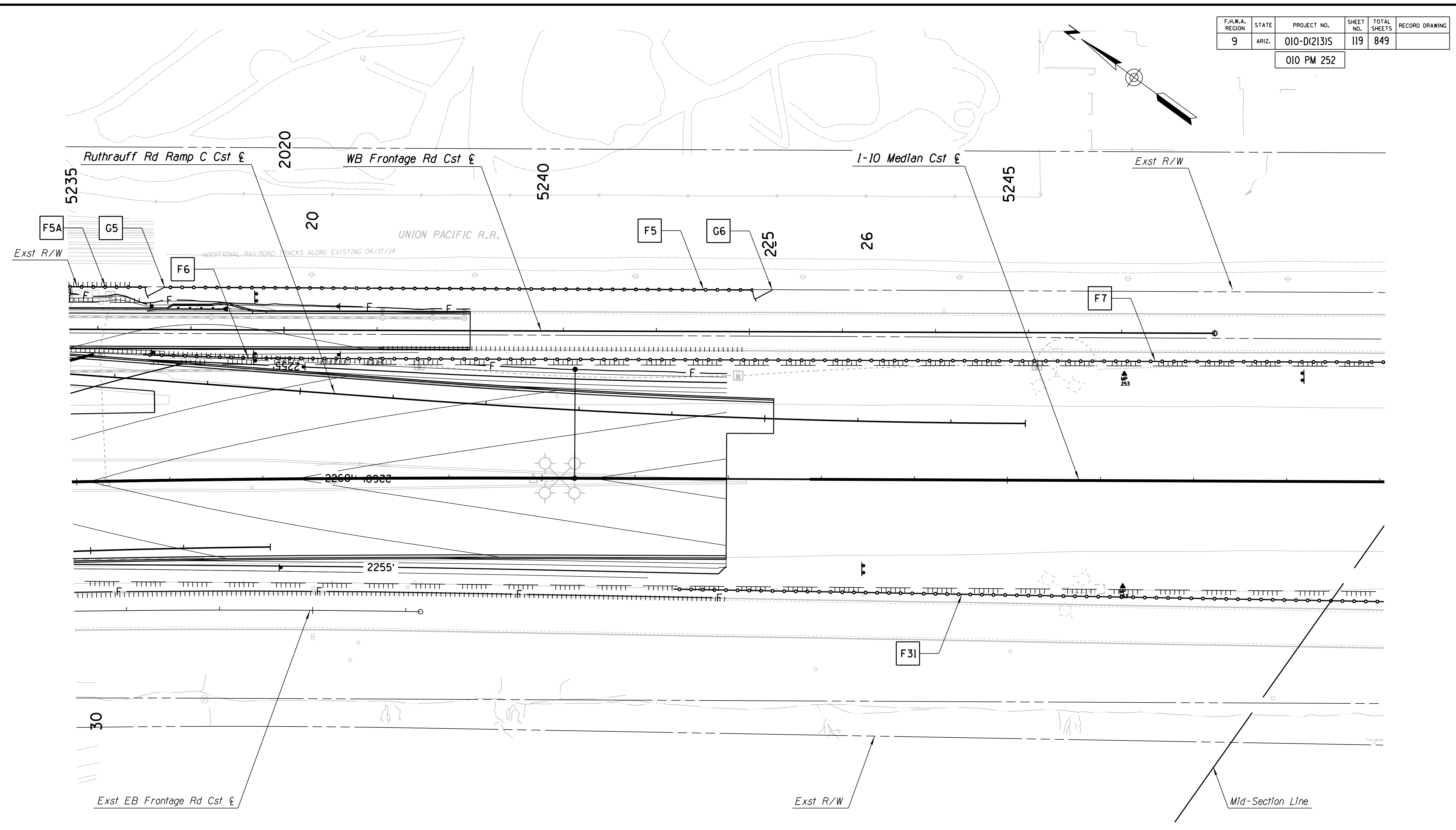
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5221+00 to 5235+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC			010-D(213)S	Expire 9/30/2019 DWG NO. G-14.06 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	119	849	

010 PM 252



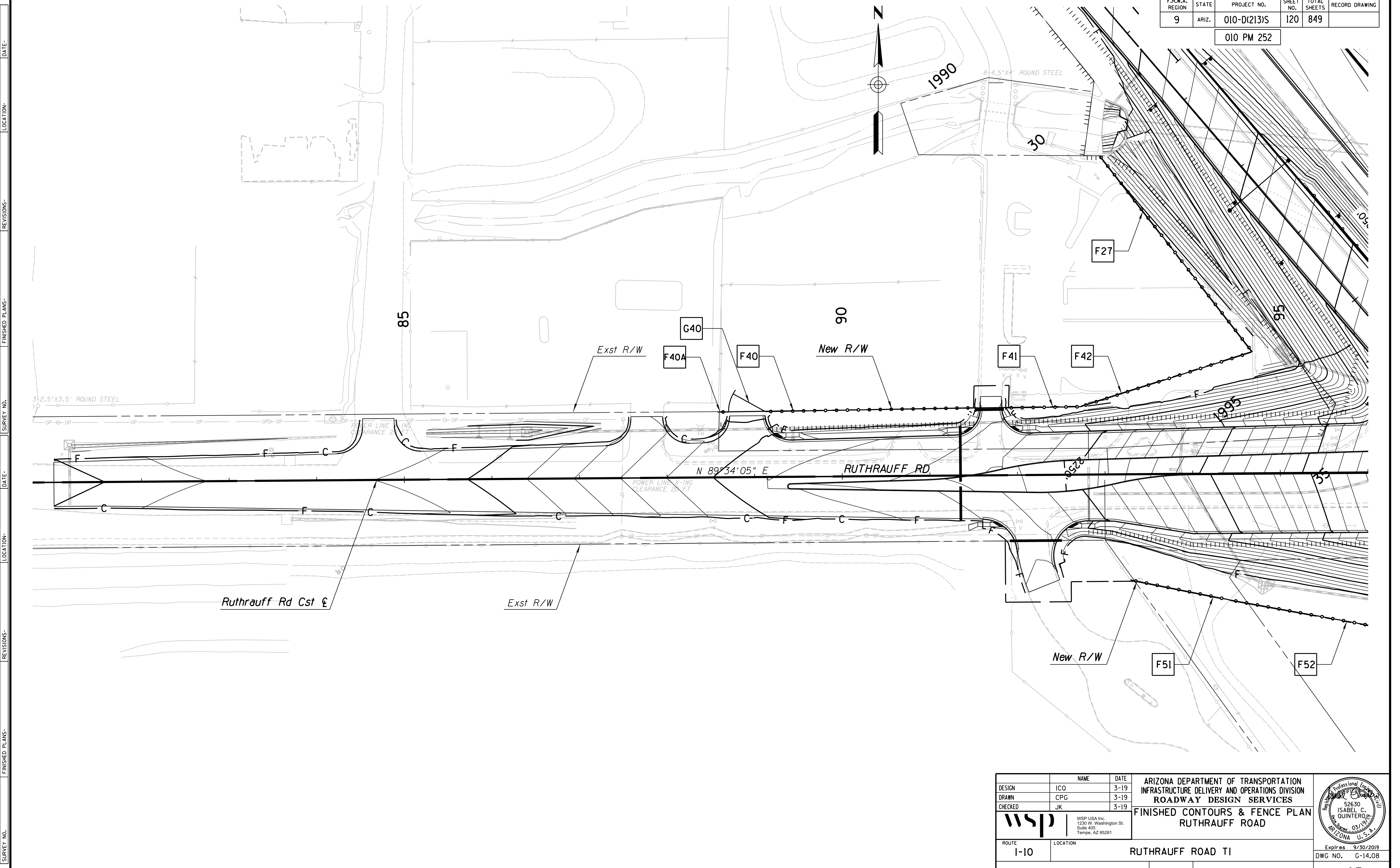
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.



DESIGN	ICO	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>I-10 MAINLINE</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		Expires 9/30/2019 DWG NO. G-14.07	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	120	849	

010 PM 252



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

DESIGN	ICO	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> <b>FINISHED CONTOURS &amp; FENCE PLAN</b> <b>RUTHRAUFF ROAD</b>	
DRAWN	CPG	3-19			
CHECKED	JK	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		Expires 9/30/2019 DWG NO. G-14.08	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	







F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	123	849	

010 PM 252

### GEOMETRIC CONTROL POINT DATA

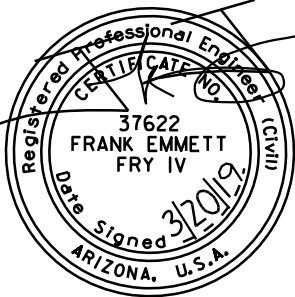
	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	477267.568	970763.181	2232.247	XYZ USC&GS BC 1951 JOB 3658
2	464130.322	980148.751	2286.506	XYZ BM Offset RR Spike In embankment same elevation as BM in pier. Job 3658
3	487678.301	965570.107	2221.177	XYZ AC Stamped NN 7 1990 Pima County In median Ina Road east of Camino Martin
4	500937.542	972715.220	2445.932	XYZ NGS Vertical Control Disk In conc drain. Stamped Park 1987
5	508807.679	944987.378	2089.957	XYZ STD USC&GS BC IN CONC HDWL
1003	487684.579	965613.542	2221.299	CP SUIZA PK NAIL
1012	503421.188	952966.082	2207.296	CP LINDA 1-2 IN REBAR
1016	503400.285	952971.356	2203.492	CP VISTA PK NAIL
51004	471944.897	969910.066	2251.190	XYZ FND 2IN BCFL SILVERBELL EL CAMINO DEL CERRO
51006	471970.472	974015.730	2238.621	XYZ FND 3IN BCHH FREEWAY RUTHRAUFF EL CAMINO
51008	471979.105	974443.373	2244.546	XYZ FND 3IN BCHH FREEWAY RUTHRAUFF EL CAMINO
51010	471990.451	975082.589	2247.391	XYZ FND 2IN BCFL RUTHRAUFF DAVIS
51012	471990.531	975083.381	2247.313	XYZ FND 2IN BCFL RUTHRAUFF DAVIS
51014	474631.378	975074.514	2250.019	XYZ FND PK NAIL W TAG DAVIS CURTIS
51016	472001.767	975724.893	2247.540	XYZ FND 3IN BCFL RUTHRAUFF MARYVALE
51018	472003.967	975845.947	2247.953	XYZ FND 3IN BCFL RUTHRAUFF PARKWAY
51020	472006.253	975974.682	2248.865	XYZ FND 3IN BCFL RUTHRAUFF SUNRISE
51022	472020.557	976786.600	2252.623	XYZ FND 3IN BCFL RUTHRAUFF VALLEY PARK
51024	472015.092	976474.770	2251.597	XYZ FND 3IN BCFL RUTHRAUFF GOLD
51026	472880.557	976471.781	2254.351	XYZ FND 2IN BCFL GOLD
51027	472010.568	976219.928	2250.450	XYZ FND 3IN BCFL RUTHRAUFF PLANE
51029	473324.937	976215.305	2253.178	XYZ HOLE IN ASPHALT PLANE DIAMOND
51030	471581.031	976531.454	2250.421	XYZ FND 3IN BCFL VIOLET VALLEY PARK
51034	472253.131	974566.442	2245.176	XYZ 2IN BCFL SHANNON
51036	472241.397	974550.223	2245.041	XYZ 2IN BCFL SHANNON
51038	472387.488	974444.824	2244.408	XYZ 2IN BCFL SHANNON
51040	472755.155	974406.444	2245.166	XYZ 1IN ACFL SHANNON
51042	472947.432	974406.122	2245.519	XYZ 1IN ACFL SHANNON
51044	473302.279	974405.294	2246.568	XYZ 2IN BCFL SHANNON DIAMOND
2363	474055.162	972757.498	2242.848	STD ADOT AC SET IN CONCRETE FLUSH STAMPED
2366	474044.503	972739.607	2243.890	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5191+12.86 LT 245.83 ANGLE IRON PAINTED POT 5191+12.86
11164	474030.082	972280.138	2242.958	ANGLE IRON ONLY PAINTED 5191+10.81 LT 225.04 ANGLE IRON PAINTED POT 5191+10.81
6459	473836.584	972445.518	2242.511	STD ADOT AC SET IN CONCRETE FLUSH STAMPED POC 5188+46
2362	473802.409	972975.260	2245.397	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5191+00.00 RT 135.00 ANGLE IRON PAINTED POC 5191+00
2357	473447.946	973275.722	2246.280	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5194+50 RT 265.00 ANGLE IRON PAINTED POT 5194+50
6465	473343.639	972795.224	2243.499	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5199+20.00 RT 280.00 ANGLE IRON PAINTED POT 5199+20.00
6490	473053.570	972997.284	2244.356	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 197+00.00 RT 160.00 ANGLE IRON PAINTED POC 5197+00
2356	472783.498	973840.398	2246.277	STD ADOT AC SET IN CONCRETE FLUSH STAMPED ROW 5200+50 RT 185 ANGLE IRON PAINTED POC 5200+50
6492	472335.416	973494.650	2244.223	STD ADOT AC SET IN CONCRETE FLUSH STAMPED POT 5208+00.00 RT 285.00 ANGLE IRON PAINTED 5208+00
6497	472335.237	973526.446	2243.528	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5209+15.44 RT 269.00 ANGLE IRON PAINTED POT 5209+15.44
6498	472310.498	973562.756	2244.367	ANGLE IRON ONLY PAINTED 5209+36.65 RT 245.00 ANGLE IRON PAINTED POT 5209+36.65
2353	472566.948	974032.421	2245.801	STD ADOT AC SET IN CONCRETE FLUSH STAMPED POT 5209+76.78
6499	472051.439	973780.856	2244.275	ANGLE IRON ONLY PAINTED POT 5210+89.42 ANGLE IRON PAINTED POT 5210+89.42
6501	472015.539	973765.891	2244.529	STD ADOT AC SET IN CONCRETE PROJ -0.20FT STAMPED POT 5213+17.24
2433	471878.903	973940.927	2247.797	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 5213+34.81 RT 271.09 ANGLE IRON PAINTED POT 5213+34.81
2436	470805.166	974889.492	2250.120	STD ADOT AC SET IN CONCRETE FLUSH STAMPED 22ΔΔ.87 ANGLE IRON PAINTED POT 5215+52.30
2437	470285.665	975253.967	2248.411	ANGLE IRON ONLY PAINTED 2248.15 ANGLE IRON PAINTED POC 5229+94.75
2438	468312.219	976677.975	2260.467	STD ADOT AC SET IN CONCRETE FLUSH STAMPED POT 5238+73.52
6505	468306.456	976669.668	2259.961	STD ADOT AC SET IN CONCRETE FLUSH NO STAMPING ANGLE IRON PAINTED 2258.245 ANGLE IRON PAINTED 5261+28.77 POT

#### BASIS OF HORIZONTAL CONTROL & ELEVATION

Design information based upon aerial photogrammetric mapping supplied by ADOT. Photogrammetry Job No. 3803 - Aerial photography dated October 29, 2008.

Elevations based upon NAVD 88.

Map coordinates are NAD 83/92 Modified Central Zone State Plane Coordinates using G.A.F = 1.00016

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	MMM	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
CONTROL POINT PLAN				
ROUTE	LOCATION	RUTHRAUFF ROAD TI		EXPIRES 06/30/2020
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. C-1.02




F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	125	849	

010 PM 252

PLAN REF NO.	DESCRIPTION	Point Type	STATION	COORDINATES		Spiral Total					Spiral Main or Circular Curve							Spiral Curve			
				Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o	†
RRRA-1	Ruthrauff Rd Ramp A Cst E	PI	11+79.53	473706.879	972855.108						5°29'24"Lt	0°40'00"	8594.37'	823.48'	412.06'	9.87'					
RRRA-1	Ruthrauff Rd Ramp A Cst E	PC	7+67.48	474035.796	972606.908																
RRRA-1	Ruthrauff Rd Ramp A Cst E	PT	15+90.96	473403.216	973133.638																
RRRA-2	Ruthrauff Rd Ramp A Cst E	PI	18+17.14	473236.533	973286.525						1°14'12"Lt	0°40'00"	8594.37'	185.48'	92.74'	0.50'					
RRRA-2	Ruthrauff Rd Ramp A Cst E	PC	17+24.39	473304.881	973223.834																
RRRA-2	Ruthrauff Rd Ramp A Cst E	PT	19+09.88	473169.554	973350.676																
301	Ruthrauff Rd Ramp A Cst E	POE	30+93.00	472315.117	974169.040																
RRRB-1	Ruthrauff Rd Ramp B Cst E	PI	13+06.50	473839.617	972586.734						2°08'31"Rt	0°36'00"	9549.30'	357.00'	178.52'	1.67'					
RRRB-1	Ruthrauff Rd Ramp B Cst E	PC	11+27.98	473982.298	972479.442																
RRRB-1	Ruthrauff Rd Ramp B Cst E	PT	14+84.98	473693.025	972688.617																
RRRB-2	Ruthrauff Rd Ramp B Cst E	PI	26+55.57	472731.794	973356.686						5°40'13"Lt	0°45'00"	7639.44'	756.04'	378.33'	9.36'					
RRRB-2	Ruthrauff Rd Ramp B Cst E	PC	22+77.24	473042.459	973140.769																
401	Ruthrauff Rd Ramp B Cst E	PT	30+33.28	472443.983	973602.241																
RRRC-1	Ruthrauff Rd Ramp C Cst E	PI	13+43.79	470955.447	975235.815						6°10'56"Rt	0°54'00"	6366.20'	686.92'	343.79'	9.28'					
RRRC-1	Ruthrauff Rd Ramp C Cst E	PC	10+00.00	471226.442	975024.263																
RRRC-1	Ruthrauff Rd Ramp C Cst E	PT	16+86.92	470663.245	975416.953																
RRRC-2	Ruthrauff Rd Ramp C Cst E	PI	24+46.13	470017.965	975816.967						4°00'31"Lt	0°36'00"	9549.30'	668.08'	334.18'	5.85'					
RRRC-2	Ruthrauff Rd Ramp C Cst E	PC	21+11.95	470301.996	975640.894																
501	Ruthrauff Rd Ramp C Cst E	PT	27+80.03	469746.937	976012.465																
600	Ruthrauff Rd Ramp D Cst E	POB	14+57.20	471619.412	974274.200																
RRRD-1	Ruthrauff Rd Ramp D Cst E	PI	20+36.93	471209.272	974683.914						3°09'55"Rt	0°40'00"	8594.37'	474.78'	237.45'	3.28'					
RRRD-1	Ruthrauff Rd Ramp D Cst E	PC	17+99.48	471377.261	974516.099																
RRRD-1	Ruthrauff Rd Ramp D Cst E	PT	22+74.26	471032.272	974842.197																
RRRD-2	Ruthrauff Rd Ramp D Cst E	PI	28+04.04	470637.362	975195.349						5°11'27"Rt	0°40'00"	8594.37'	778.63'	389.58'	8.83'					
RRRD-2	Ruthrauff Rd Ramp D Cst E	PC	24+14.46	470927.763	974935.655																
601	Ruthrauff Rd Ramp D Cst E	PT	31+93.09	470324.657	975427.704																

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.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. C-2.02

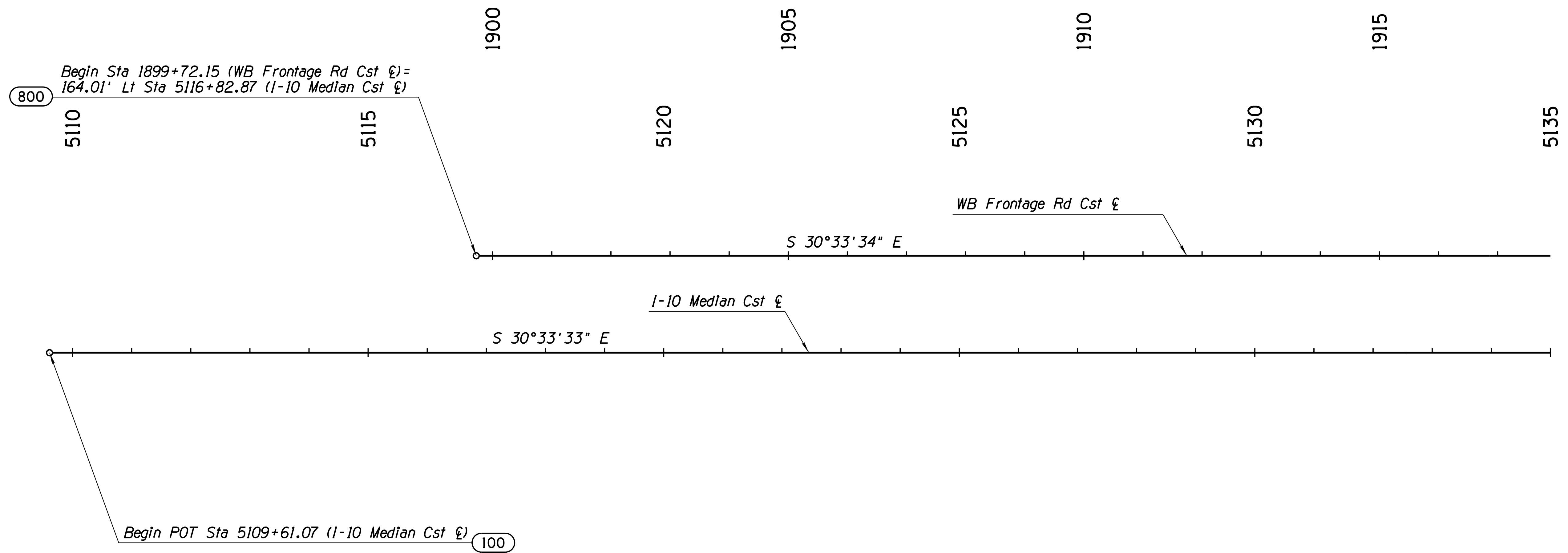
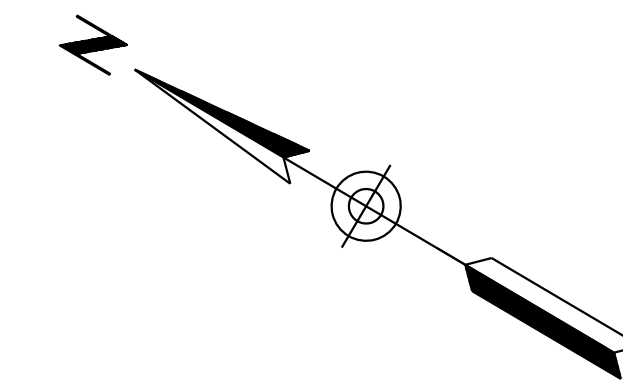






F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	129	849	

010 PM 252



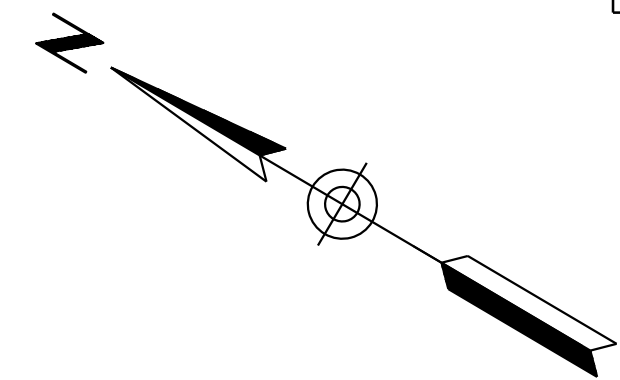
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		GEOMETRIC LAYOUT SHEET STA 5110+00 TO 5135+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		Expire 9/30/2019 DWG NO. C-2.06 OF



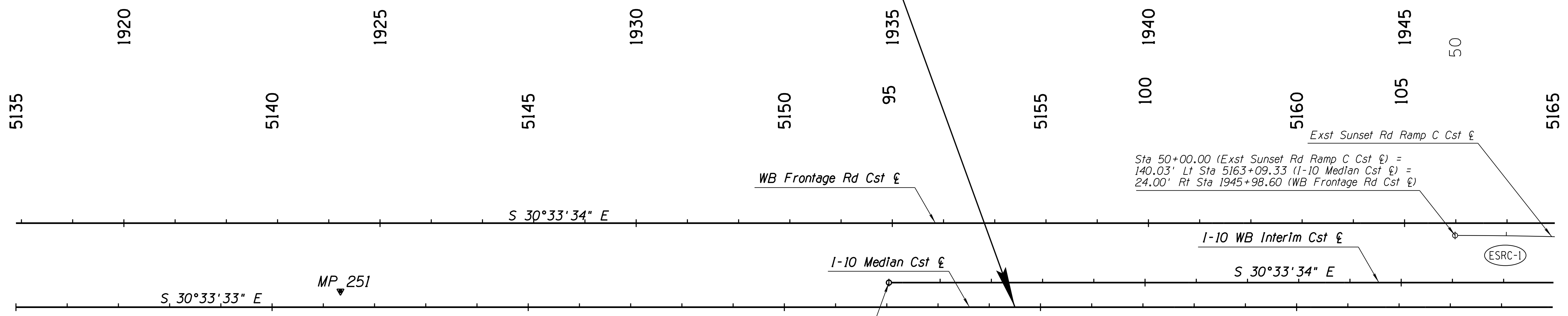
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	130	849	

010 PM 252



STA 5154+50.10 (I-10 Median Cst ☿)=  
 STA 97+46.00 (I-10 WB Interim Cst ☿)  
 BEGIN PROJECT  
 H8480 OIC 010-D(213)S

N=477014.92  
 E=970613.87



Sta 50+00.00 (Exst Sunset Rd Ramp C Cst ☿) =  
 140.03' Lt Sta 5163+09.33 (I-10 Median Cst ☿) =  
 24.00' Rt Sta 1945+98.60 (WB Frontage Rd Cst ☿)

Begin Sta 95+00.00 (I-10 WB Interim Cst ☿)=  
 47.99' Lt Sta 5152+04.10 (I-10 Median Cst ☿)

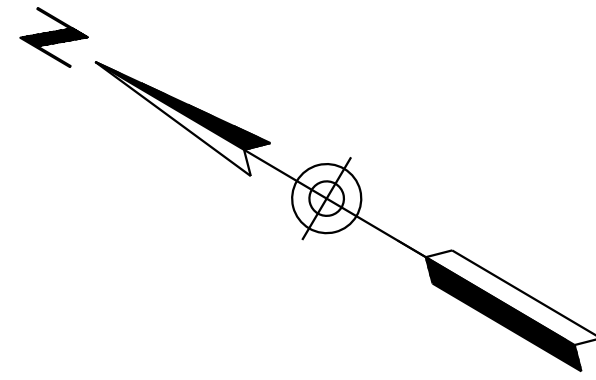
200

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

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		GEOMETRIC LAYOUT SHEET STA 5135+00 TO 5165+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-2.07 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	131	849	

010 PM 252



PC Sta 7+67.48 (Ruthrauff Rd Ramp A Cst  $\xi$ ) =  
73.00' Lt Sta 5190+41.86 (I-10 Median Cst  $\xi$ )

PT Sta 128+91.78 (I-10 WB Interim Cst  $\xi$ ) =  
37.00' Lt POC Sta 5186+00.00 (I-10 Median Cst  $\xi$ )

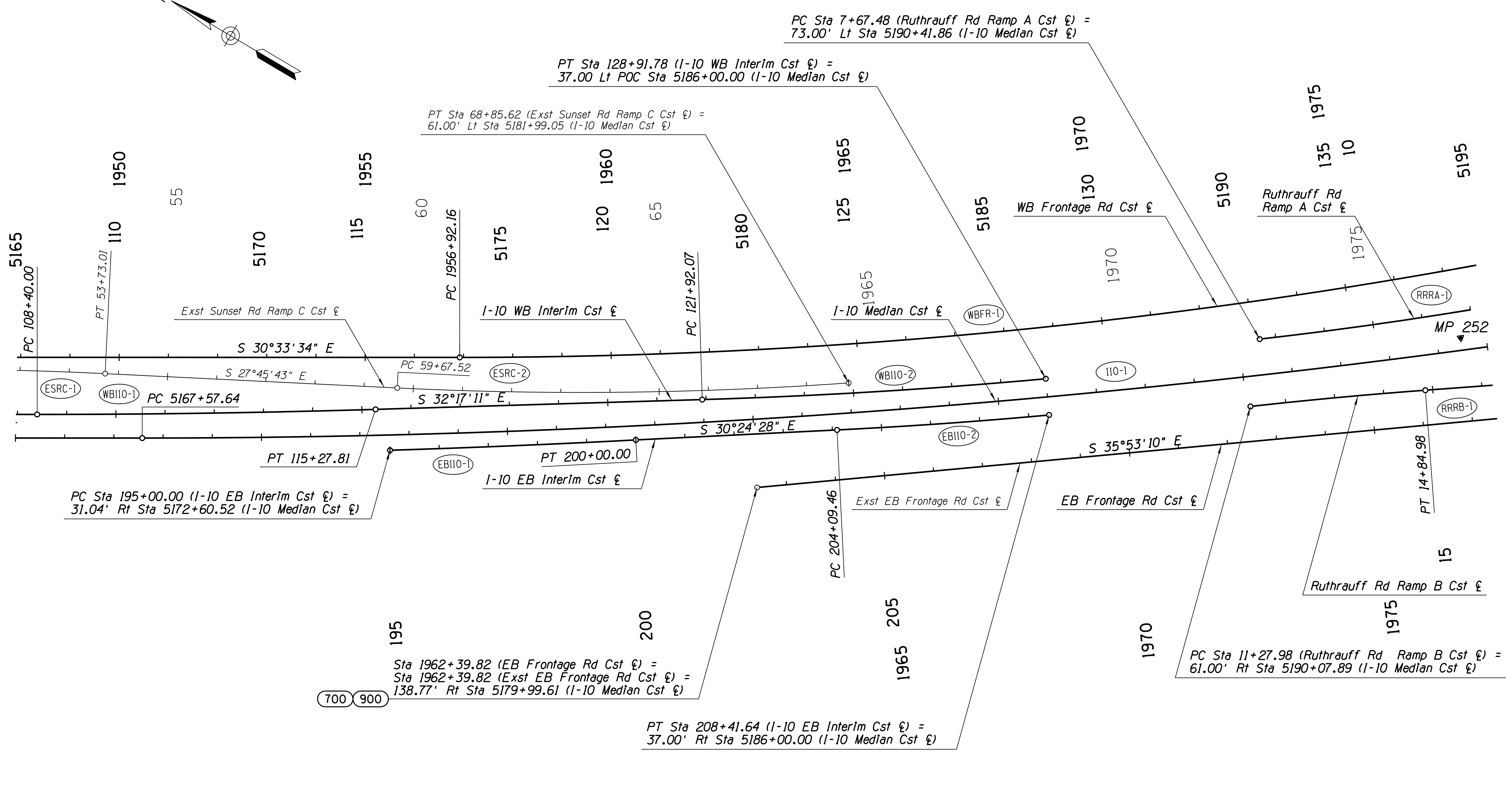
PT Sta 68+85.62 (Exst Sunset Rd Ramp C Cst  $\xi$ ) =  
61.00' Lt Sta 5181+99.05 (I-10 Median Cst  $\xi$ )

PC Sta 195+00.00 (I-10 EB Interim Cst  $\xi$ ) =  
31.04' Rt Sta 5172+60.52 (I-10 Median Cst  $\xi$ )

Sta 1962+39.82 (EB Frontage Rd Cst  $\xi$ ) =  
Sta 1962+39.82 (Exst EB Frontage Rd Cst  $\xi$ ) =  
138.77' Rt Sta 5179+99.61 (I-10 Median Cst  $\xi$ )

PT Sta 208+41.64 (I-10 EB Interim Cst  $\xi$ ) =  
37.00' Rt Sta 5186+00.00 (I-10 Median Cst  $\xi$ )

PC Sta 11+27.98 (Ruthrauff Rd Ramp B Cst  $\xi$ ) =  
61.00' Rt Sta 5190+07.89 (I-10 Median Cst  $\xi$ )



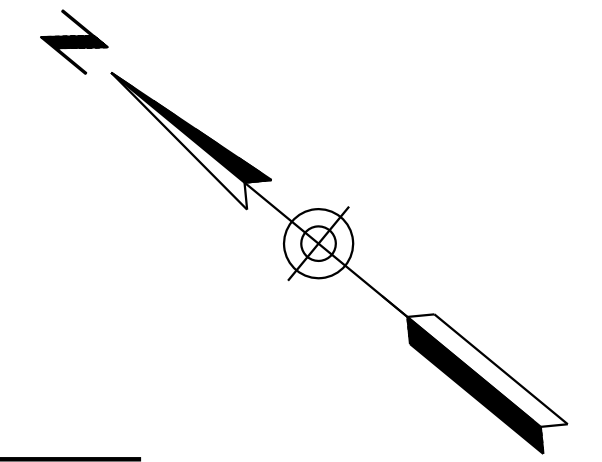
SURVEY NO. FINISHED PLANS. DATE. LOCATION. REVISIONS. DATE. FINISHED PLANS. DATE.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		GEOMETRIC LAYOUT SHEET STA 5165+00 TO 5195+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
			Expires 9/30/2019 DWG NO. C-2,08		

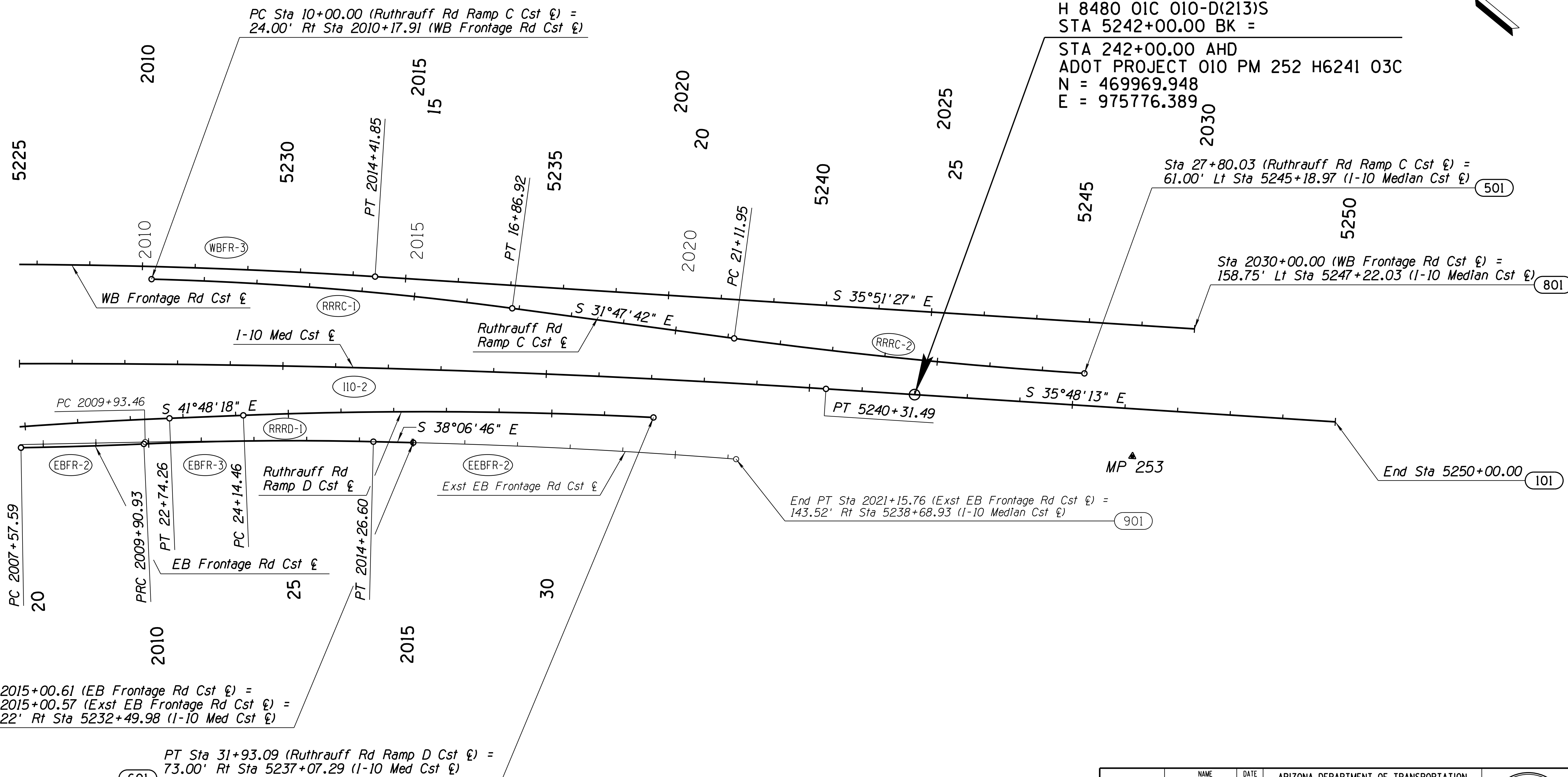


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	133	849	

010 PM 252



END PROJECT  
H 8480 OIC 010-D(213)S  
STA 5242+00.00 BK =  
STA 242+00.00 AHD  
ADOT PROJECT 010 PM 252 H6241 03C  
N = 469969.948  
E = 975776.389



MP 253

901

701

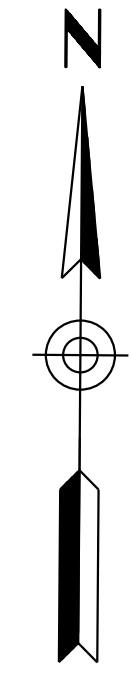
601

DESIGN	ICO	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>GEOMETRIC LAYOUT SHEET</b> <b>STA 5225+00 TO 5250+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. C-2.10 OF

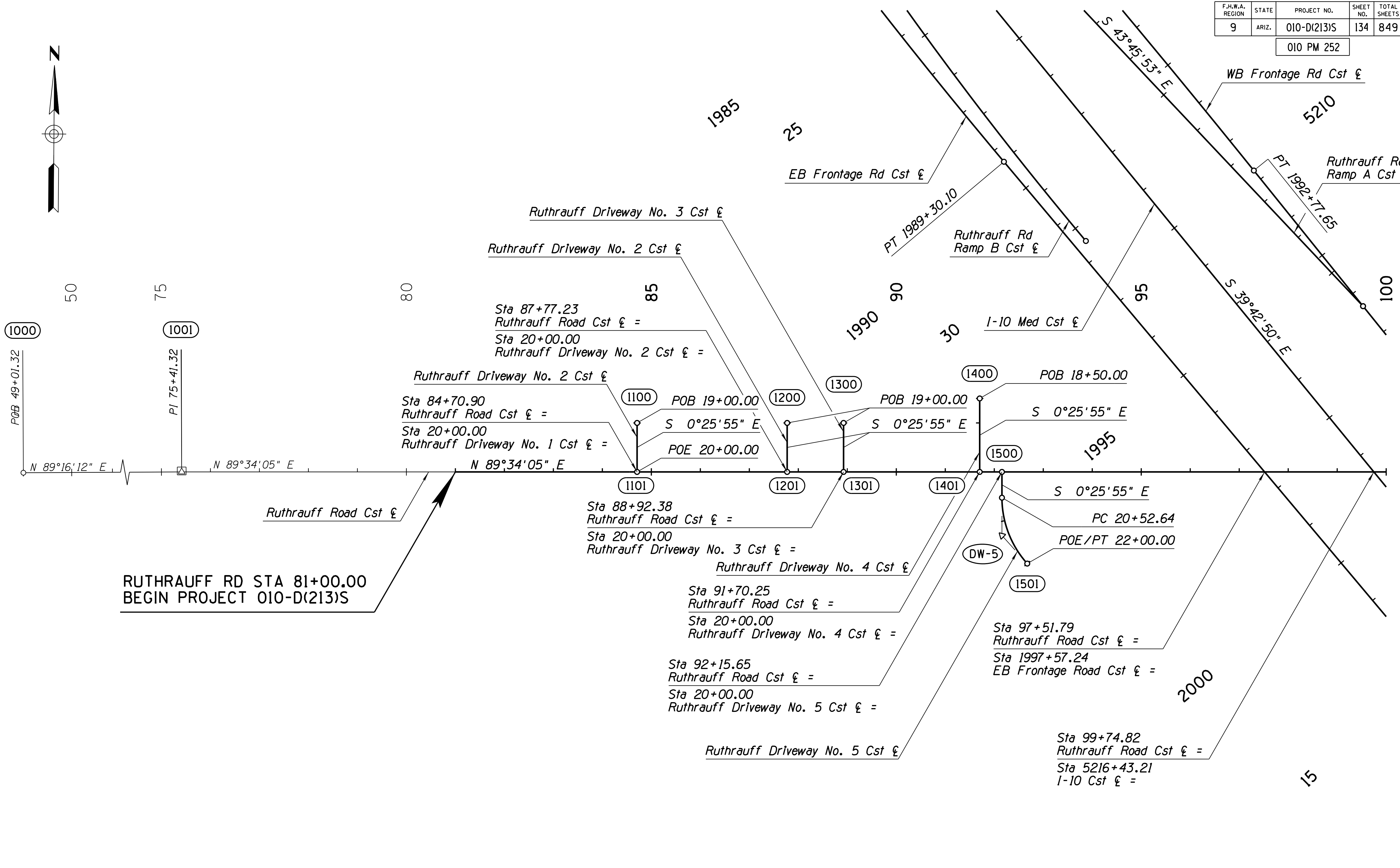
SURVEY NO. FINISHED PLANS. DATE. LOCATION. REVISIONS. FINISHED PLANS. DATE. LOCATION. REVISIONS. FINISHED PLANS. DATE. LOCATION. REVISIONS.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	134	849	

010 PM 252



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



**RUTHRAUFF RD STA 81+00.00  
BEGIN PROJECT 010-D(213)S**

**NOTE:** The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction £ has been designated as Ruthrauff Road Cst £ for entire length.

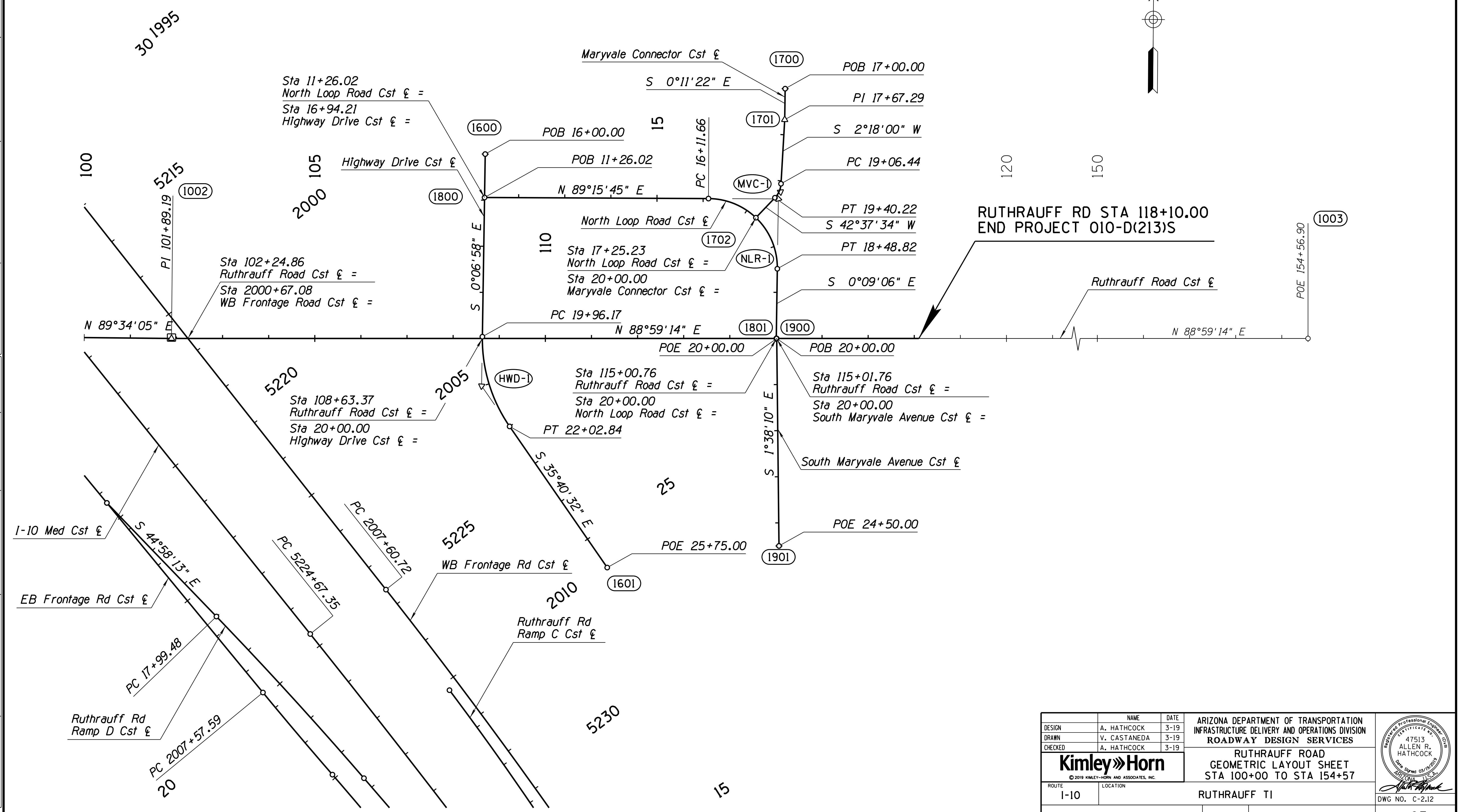
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> GEOMETRIC LAYOUT SHEET STA 49+01 TO STA 100+00	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		ROUTE: I-10      LOCATION: RUTHRAUFF TI		DWG NO. C-2.11	
TRACS NO. H8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	135	849	

010 PM 252



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



DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> GEOMETRIC LAYOUT SHEET STA 100+00 TO STA 154+57	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. C-2.12	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	136	849	

010 PM 252

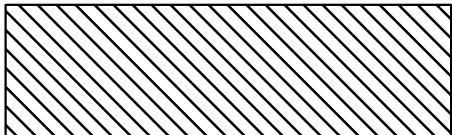
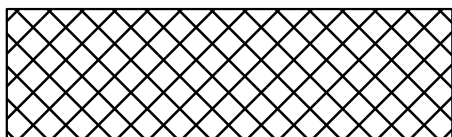
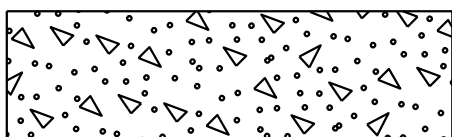
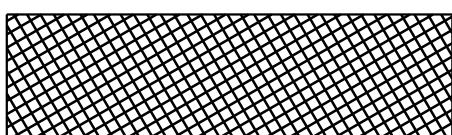
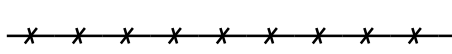
**REMOVAL GENERAL NOTES:**

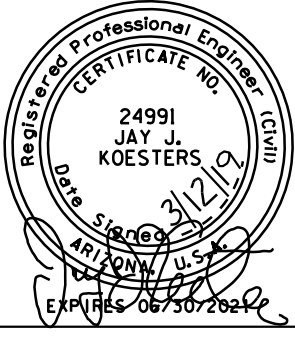
- Limits of pavement removal may be changed as directed by the Engineer.
- Items to be salvaged shall be delivered to the ADOT Yard, contact information is included in special provisions.
- For drainage removals, see Drainage Plans and Cross Culvert Plans.
- Barrier/Guardrail removals are not duplicated on Barrier Summary Sheets.
- For existing utility removals and adjustments, see Utility Plans.
- For sign and sign structure removals, see Signing Plans.
- For crossroad lighting and signal removals, see Lighting Plans and Traffic Signal Plans.
- For ITS removals, see ITS Plans.
- For protection of existing irrigation system and proposed irrigation equipment design, see Irrigation Plans.
- All Stations and Offsets are from I-10 Median Construction & unless otherwise noted.
- For location of Preservation Fencing (Item 9030008), see Landscape Plans.
- For removals related to temporary detours, see Detour Plans.

**NON-STANDARD ABBREVIATIONS**

- ACMP Aluminized Corrugated Metal Pipe
- ACP Asbestos Cement Pipe
- CB Catch Basin
- CBC Concrete Box Culvert
- CC Concrete Cylinder Pipe
- CI Cast Iron
- CMP Corrugated Metal Pipe
- CTB Cement-Treated Base
- DIP Ductile Iron Pipe
- EM Electric Marker
- EMBK Embankment
- FH Fire Hydrant
- HP High Pressure
- RCP Reinforced Concrete Pipe
- PVC Polyvinyl Chloride Pipe
- STL Steel

**REMOVAL LEGEND**

-  AC Removal
-  PCCP Removal
-  Concrete Removal
-  AC and 6" Cement-Treated Base Removal
-  Fence/Cable Barrier Removal

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL GENERAL NOTES</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		DWG NO. C-3.01
					OF

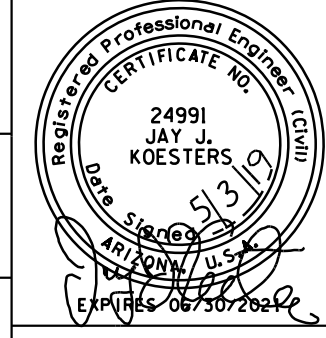
DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	137	849	

010 PM 252

### DEMOLITION SUMMARY

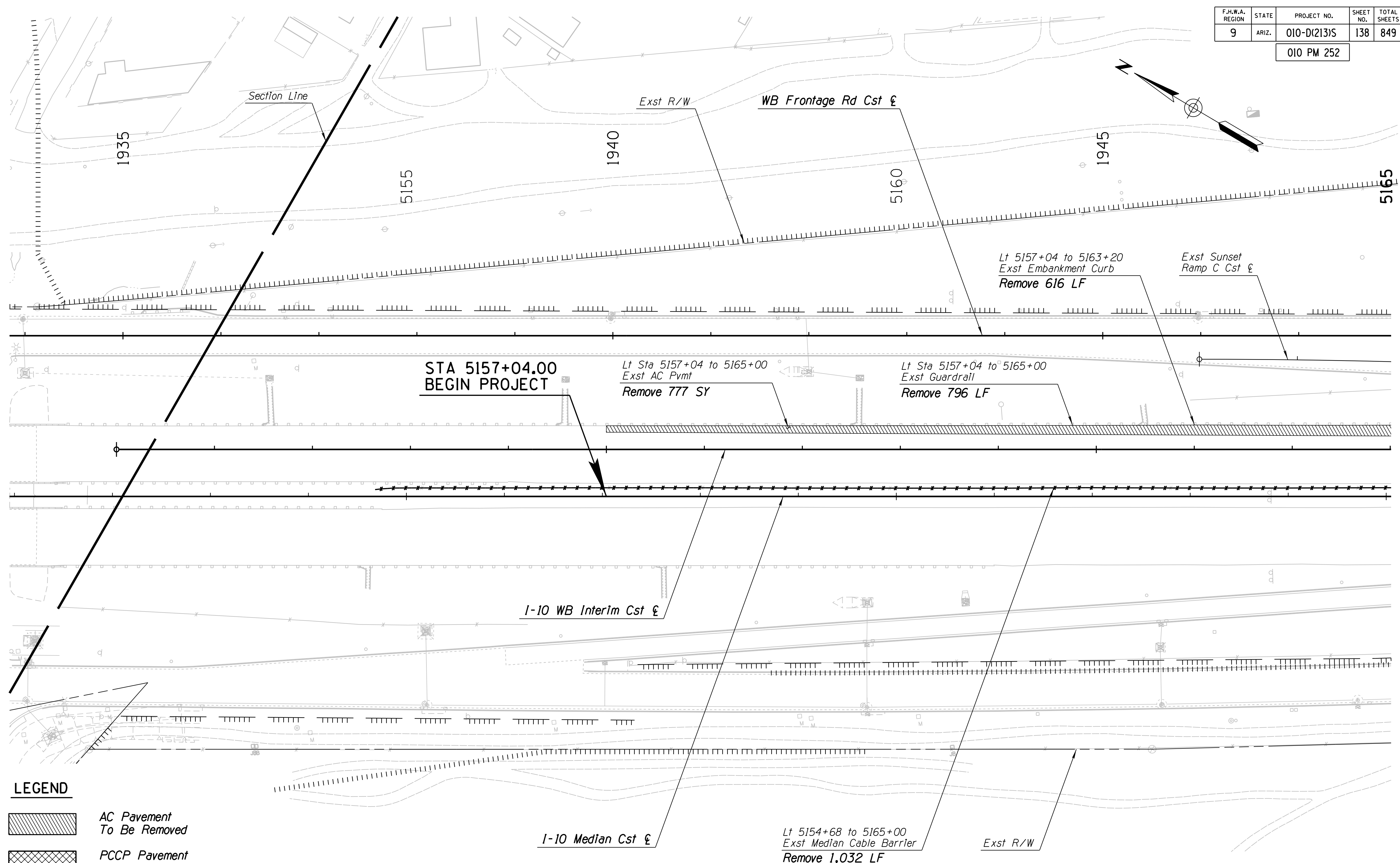
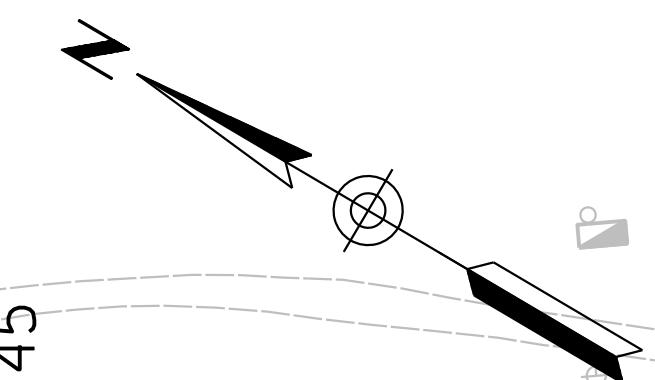
Approx. Station To Station or Location	Sheet	AC Rem	PCCP Rem	CTB Rem	2" Mill	Conc Gore Pvm	Slope Pvm	Misc Conc	Embkc Curb	Conc Curb	Conc Curb & Gutter	Integral Curb & Gutter	Conc Barrier	Temp Conc Barrier	Guardrail	Guardrail End Term.	Guardrail BCT	Chain Link Cable Barrier	Median Cable Barrier	Chain Link Fence	Gate	Street Light	High Mast Light	Bridge	Mailbox	Stone Riprap	Boulder	Metal Handrail							
		SY	SY	SY	SY	SY	SF	SF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
I-10																																			
5151+00 to 5165+00	C-3.03	777							616						796				1032																
5165+00 to 5179+00	C-3.04	3096		187		297		817			162				129	1			1400	1693		9													
5179+00 to 5193+00	C-3.05	17033		11188															1476	2799		10													
5193+00 to 5207+00	C-3.06	22574	7049	12472		551		3180		55	2078	3347							1480	3208		4			2										
5207+00 to 5221+00	C-3.07	24164	4413	10315		87		1038	1464	520	2673	1968			3002	2		36	562	2589	1		3	1											
5221+00 to 5235+00	C-3.08	26427	7788	12950		671		3619	141	21	3048	3540	169	2780	945	2	2			2676			7												143
5235+00 to 5249+00	C-3.09	14900	178	6941		159		1248			797		20	1420	166	1				2704			4												
5249+00 to 5263+00	C-3.10																			402															
Ruthrauff Road																																			
81+00 to 94+00	C-3.11	9413						3975		92	867														2										
94+00 to 108+00	C-3.12	12861		8118			2777	15036		1069	2481		519																						
108+00 to 118+10	C-3.13	14092		9264	2319			19267		512	3388														3	5	5								
<b>Total</b>		<b>145337</b>	<b>19428</b>	<b>71435</b>	<b>2319</b>	<b>1765</b>	<b>2777</b>	<b>48180</b>	<b>2221</b>	<b>2269</b>	<b>15494</b>	<b>8855</b>	<b>708</b>	<b>4200</b>	<b>5038</b>	<b>6</b>	<b>2</b>	<b>36</b>	<b>5950</b>	<b>16274</b>	<b>1</b>	<b>23</b>	<b>14</b>	<b>1</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>143</b>							

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			<b>I-10          RUTHRAUFF RD TI          REMOVAL SUMMARY</b>
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C	PROJECT NO.	010-D(213)S		
DWG NO.	C-3.02	OF			

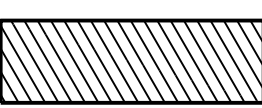
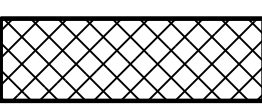
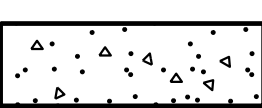

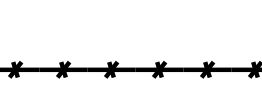


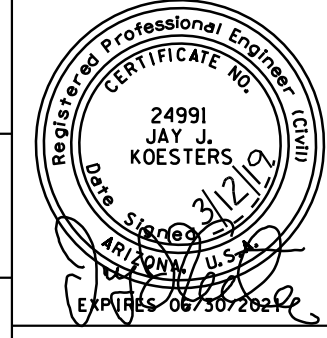

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	138	849	

010 PM 252



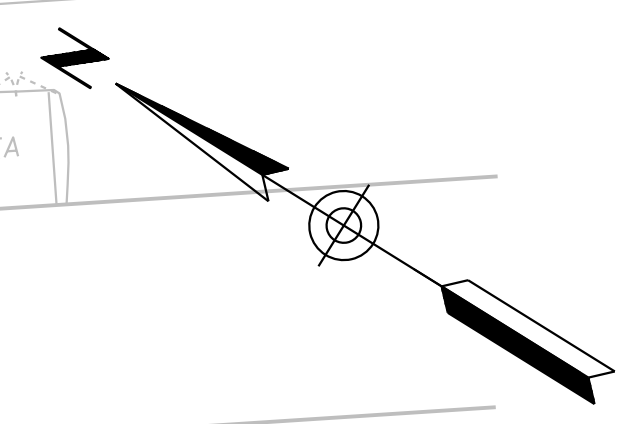
**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5151+00 to 5165+00</b>		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI DWG NO. C-3.03	
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	139	849	

010 PM 252



Lt Sta 1948+69 to 1949+11  
Exst Driveway  
Remove 817 SF

Rt Sta 1952+06 to 1953+66  
Exst Curb & Gutter  
Remove 162 LF

UNION PACIFIC R.R.

WB Frontage Rd Cst €

I-10 WB Interim Cst €

Lt Sta 5168+53 to 5179+00  
Exst Chain Link Fence  
Remove 1041 LF

Exst Light Pole  
Remove & Salvage 1 EA

Exst Light Pole  
Remove & Salvage 1 EA

Exst Light Pole  
Remove & Salvage 1 EA

Lt Sta 5170+78 to 5172+55  
Exst Conc Gore  
Remove 297 SY

Exst Light Pole  
Remove & Salvage 1 EA

5165

5170

1955

5175

1960

Exst Sunset Ramp C Cst €

Exst R/W

ASPHALT PARKING LOT

Exst Guardrail End Terminal  
Remove 1 EA

Lt Sta 5165+00 to 5166+29  
Exst Guardrail  
Remove 129 LF

Lt Sta 5168+77 to 5170+46  
Exst Chain Link Fence  
Remove 169 LF

Lt Sta 5165+00 to 5179+00  
Exst AC Pvmt  
Remove 2374 SY

Exst Light Pole  
Remove & Salvage 2 EA



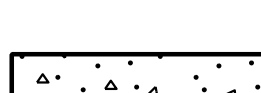


Exst Light Pole  
Remove & Salvage 1 EA

Exst Light Pole  
Remove & Salvage 1 EA

Lt Sta 5174+20 to 5179+00  
Exst Chain Link Fence  
Remove 483 LF

Exst Light Pole  
Remove & Salvage 1 EA

**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed

I-10 Median Cst €

I-10 EB Interim Cst €

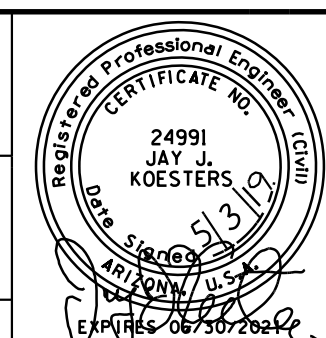

Lt Sta 5165+00 to 5179+00  
Exst Median Cable Barrier  
Remove 1400 LF

Rt Sta 5172+61 to 5177+60  
Exst AC Pvmt  
Remove 535 SY

Rt Sta 5177+60 to 5179+00  
Exst AC Pvmt and 6" CTB  
Remove 187 SY

195

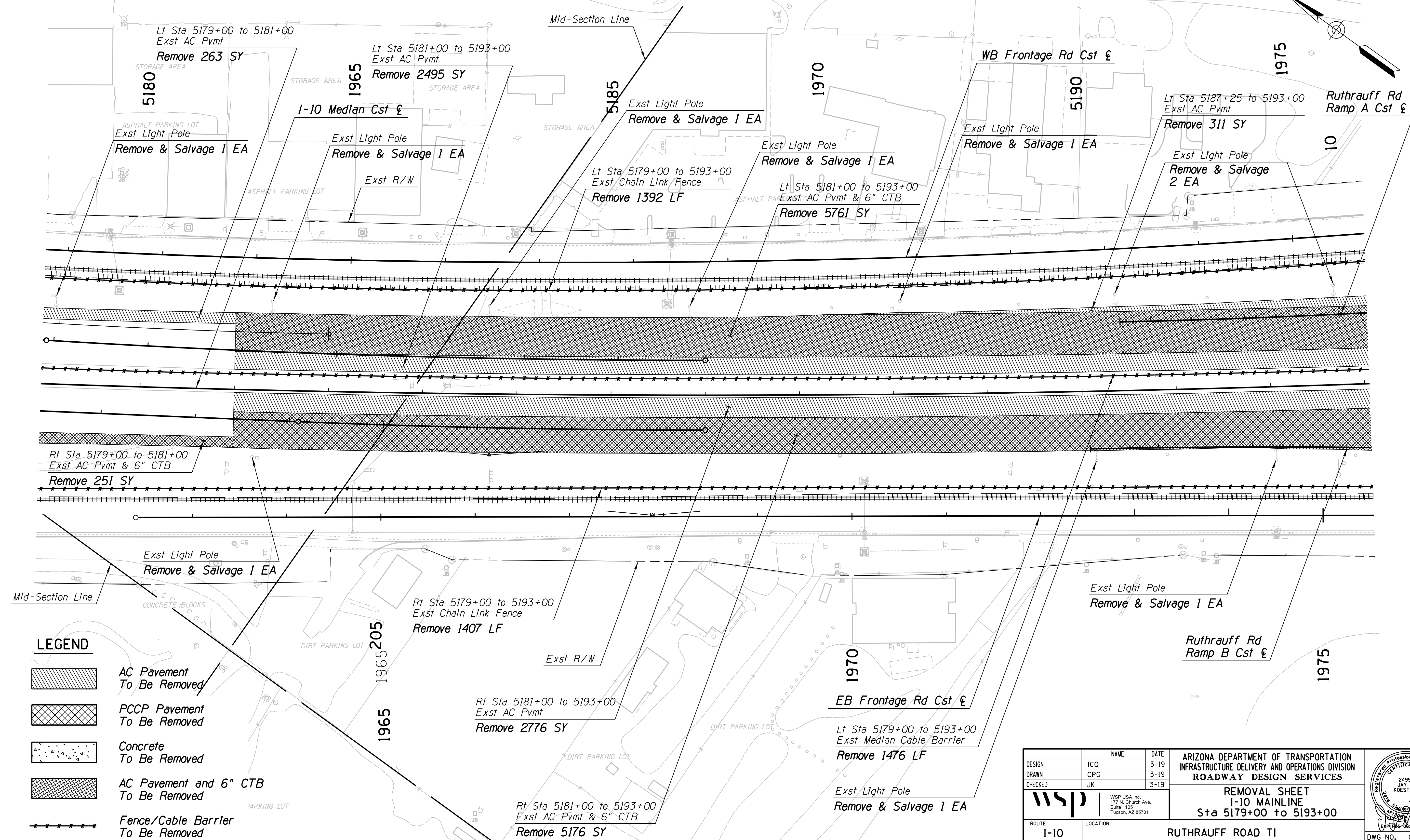
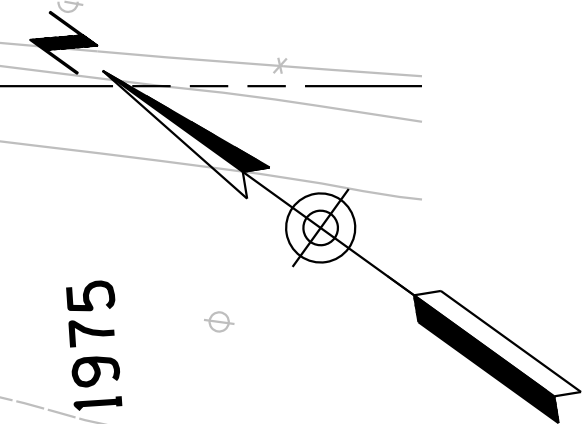
200

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5165+00 to 5179+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
DWG NO.	C-3.04	DATE	OF		

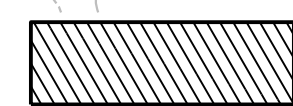

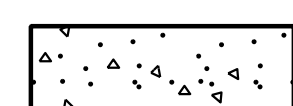
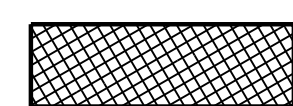
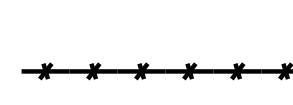
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.: DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.:

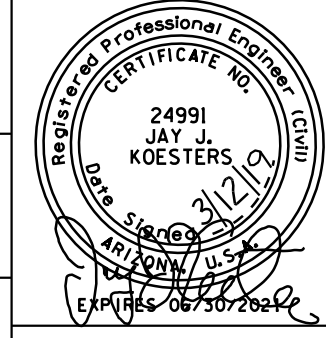

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	140	849	

010 PM 252








**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5179+00 to 5193+00</b>		DWG NO. C-3.05	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

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

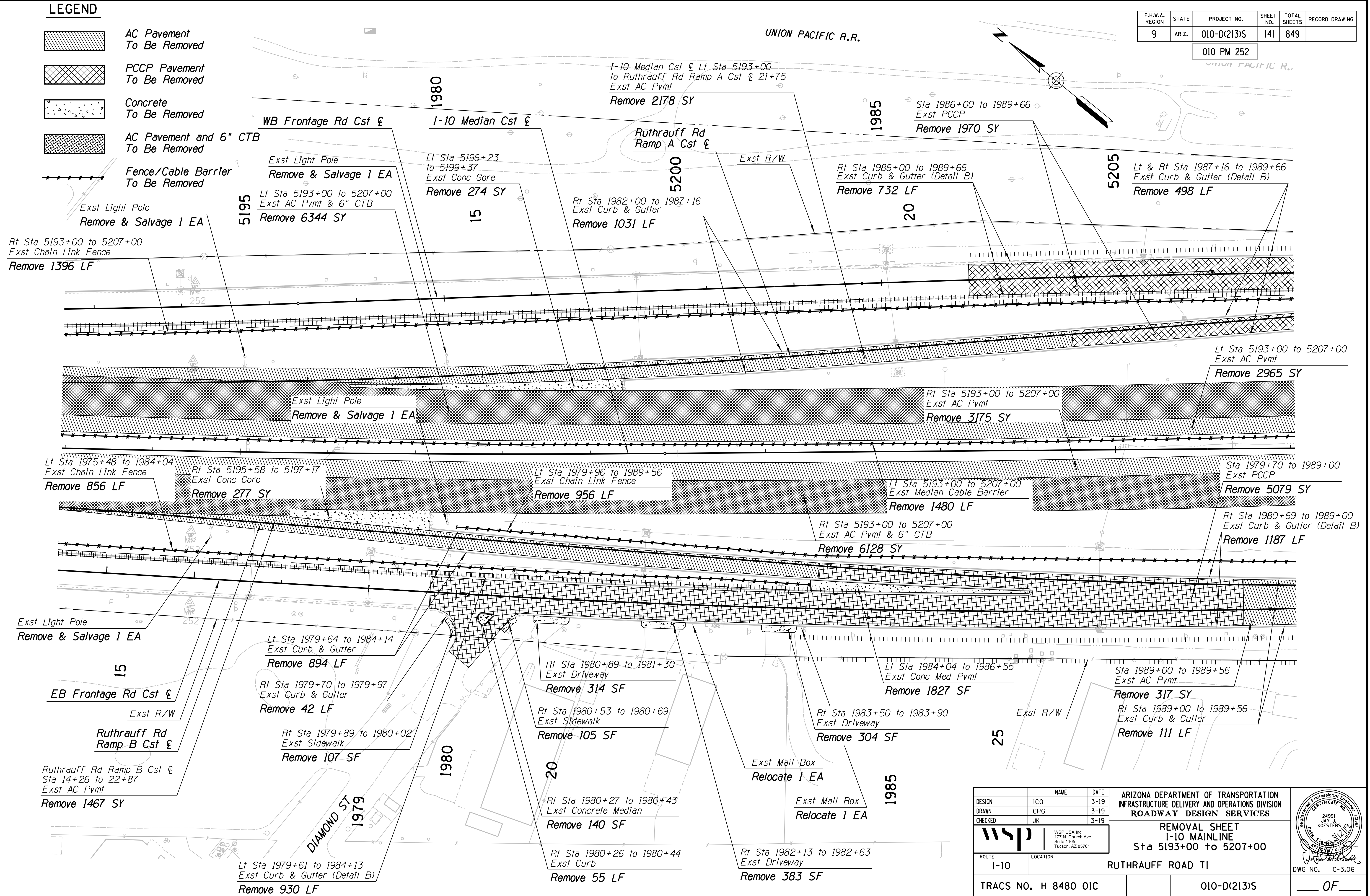
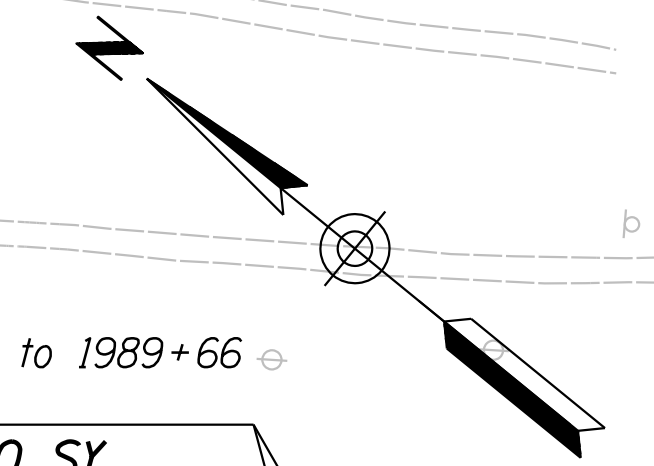
**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed

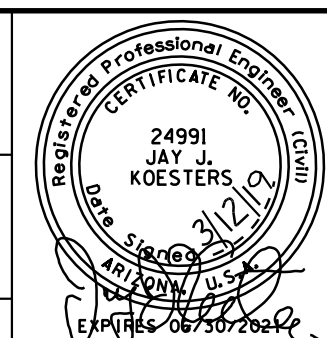

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	141	849	

010 PM 252

UNION PACIFIC R.R.

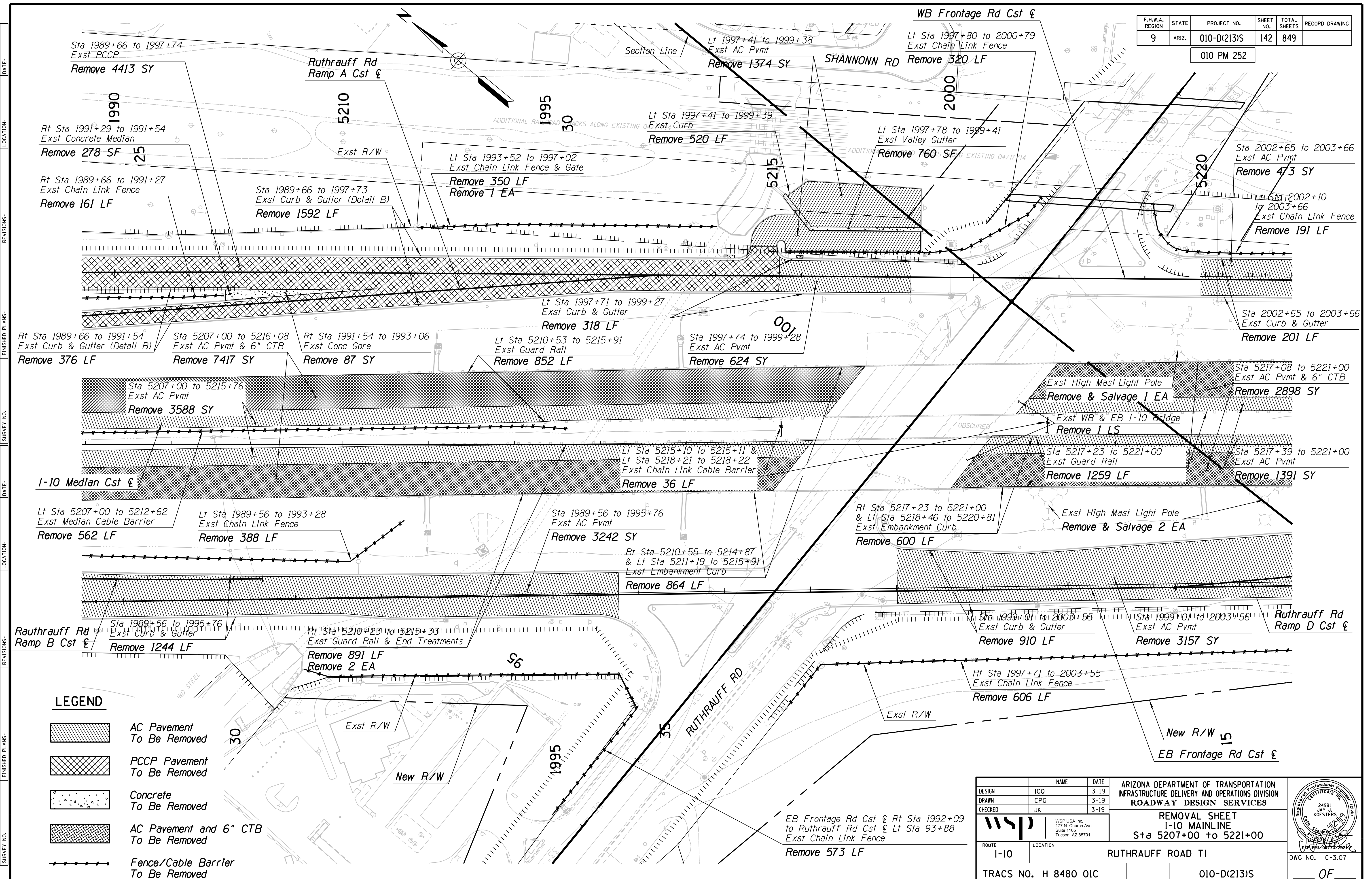


DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_

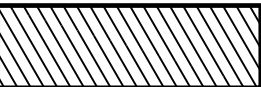

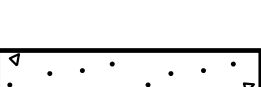


DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> Sta 5193+00 to 5207+00		DWG NO. C-3.06	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

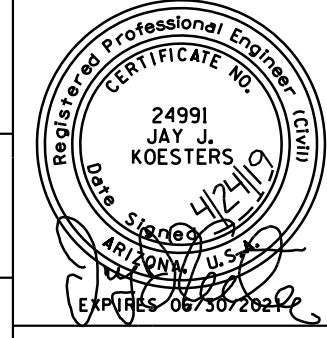

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	142	849	

010 PM 252



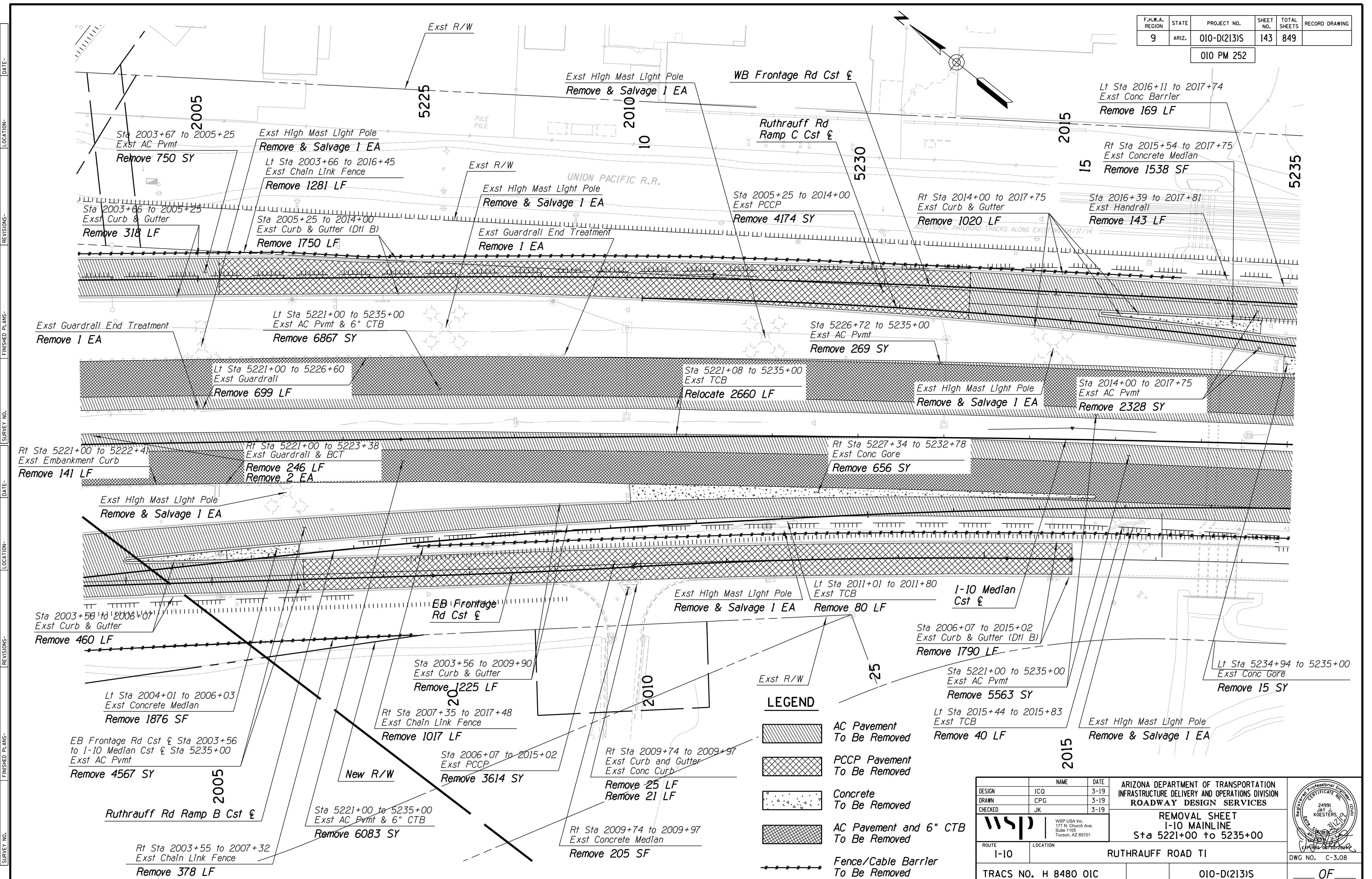
**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed


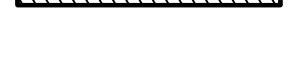

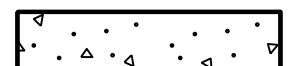

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5207+00 to 5221+00</b>		DWG NO. C-3.07	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC	
				010-D(213)S	
				OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	143	849	

010 PM 252



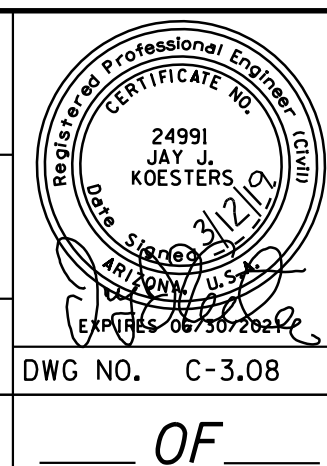
**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed

DESIGN	NAME	DATE
ICD		3-19
CPG		3-19
JK		3-19

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

**REMOVAL SHEET**  
**I-10 MAINLINE**  
**Sta 5221+00 to 5235+00**



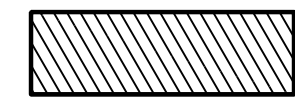
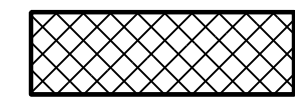
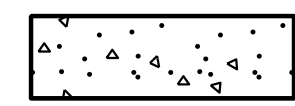
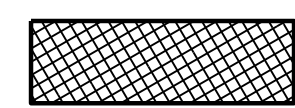
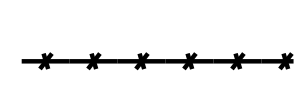
ROUTE	LOCATION	DWG NO.
I-10	RUTHRAUFF ROAD TI	C-3.08
TRACS NO. H 8480 OIC	010-D(213)S	OF

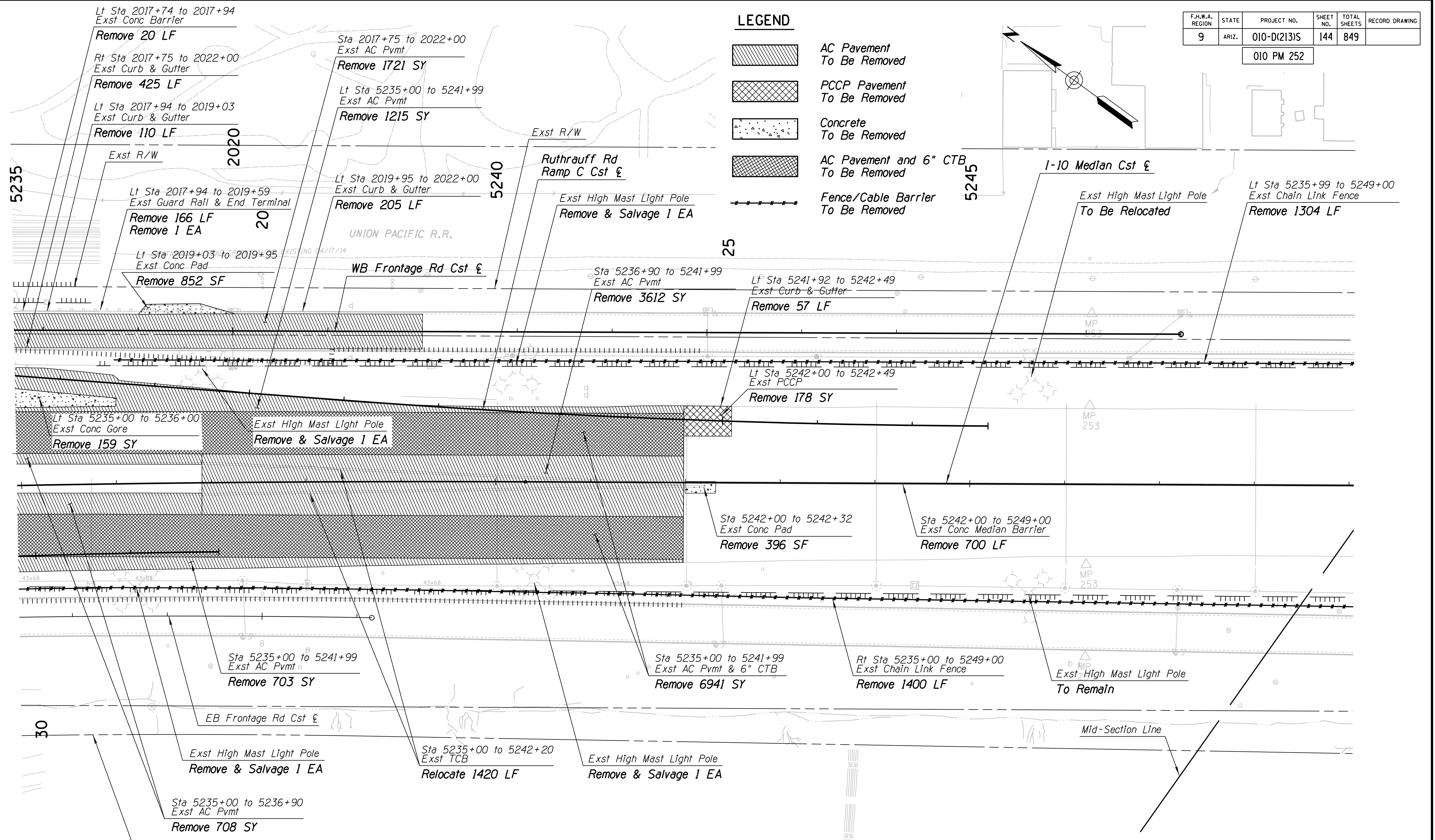
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

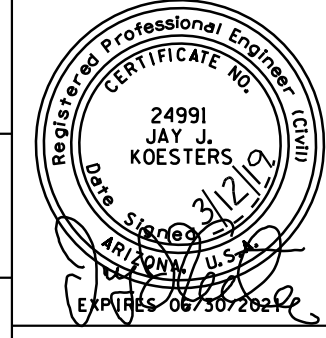

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	144	849	

010 PM 252

**LEGEND**

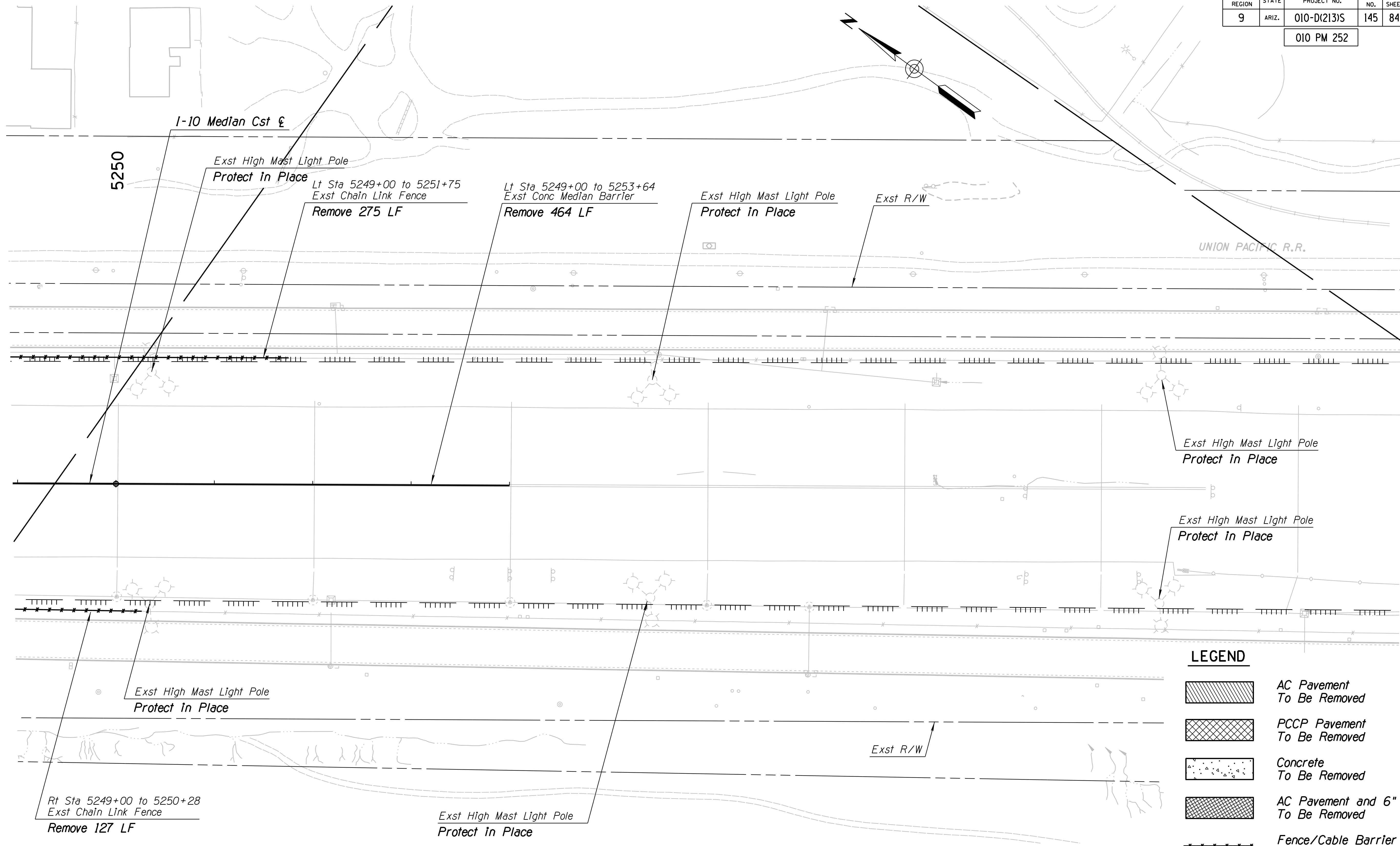
-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  AC Pavement and 6" CTB To Be Removed
-  Fence/Cable Barrier To Be Removed



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5235+00 to 5249+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
			DWG NO. C-3.09		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	145	849	

010 PM 252



LEGEND	
	AC Pavement To Be Removed
	PCCP Pavement To Be Removed
	Concrete To Be Removed
	AC Pavement and 6" CTB To Be Removed
	Fence/Cable Barrier To Be Removed

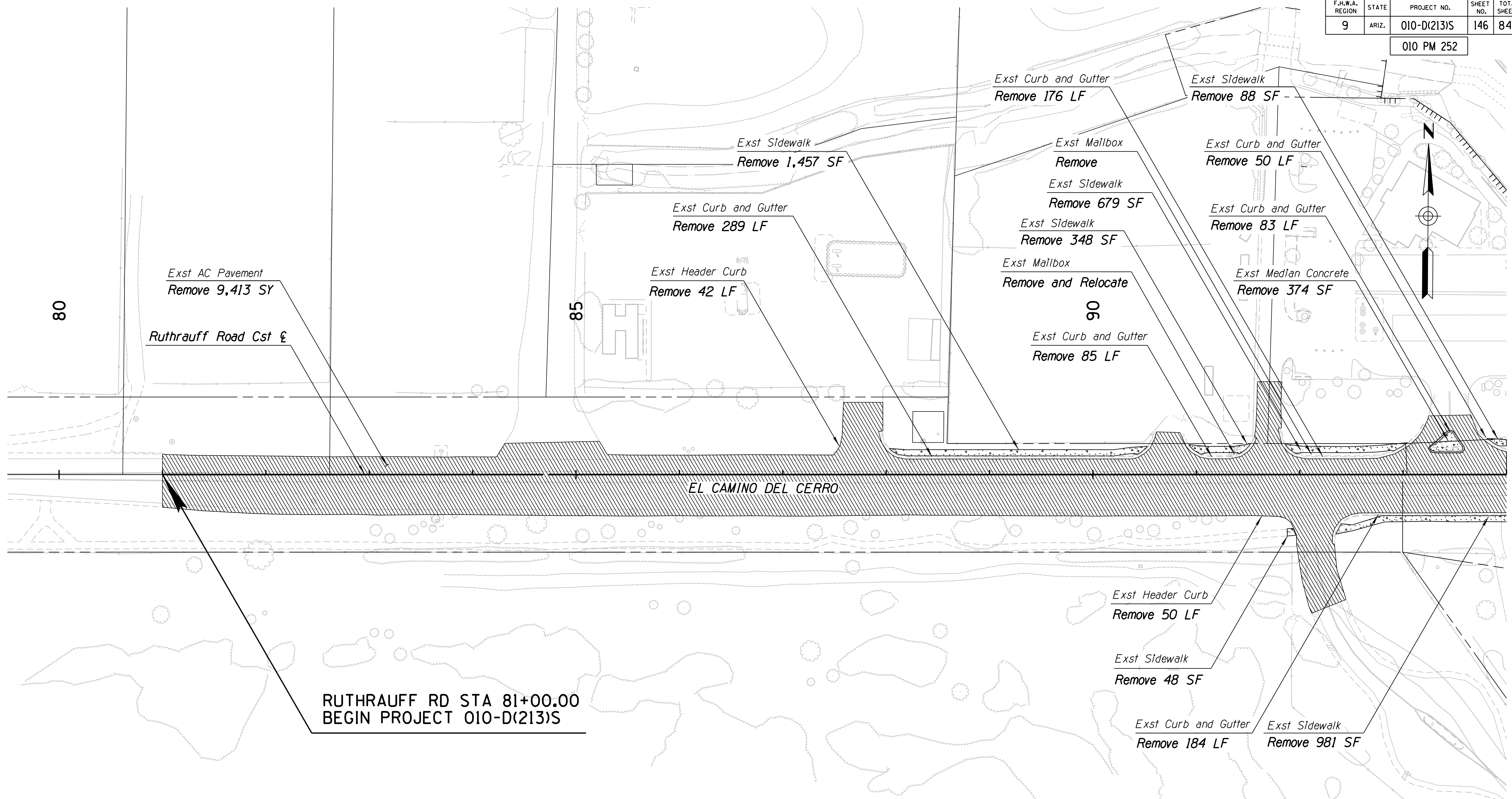
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE SURVEY NO. FINISHED PLANS DATE

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>REMOVAL SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5249+00 to 5263+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					DWG NO. C-3.10
					OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	146	849	

010 PM 252

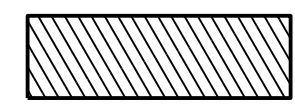

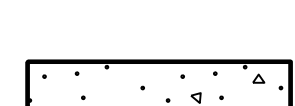
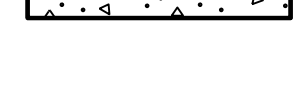


RUTHRAUFF RD STA 81+00.00  
BEGIN PROJECT 010-D(213)S

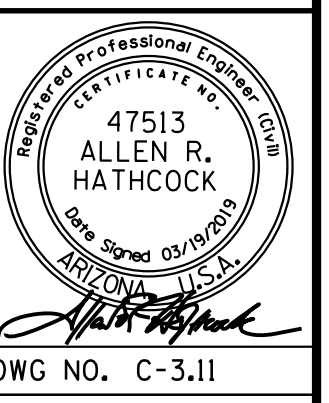
**GENERAL NOTES:**

1. See Signing Plans for disposition of signs and sign structures.
2. See Storm Drain and Culvert Plans for disposition of drainage features.
3. See Utility Plans for disposition of utility features.
4. See Signal Plans for disposition of signal features.
5. See Electrical Plans for disposition of additional existing electrical features.
6. See Irrigation Plans for disposition of existing irrigation equipment.

**LEGEND**

-  AC Pavement To Be Removed
-  PCCP Pavement To Be Removed
-  Concrete To Be Removed
-  Chain Link/Cable Fence To Be Removed

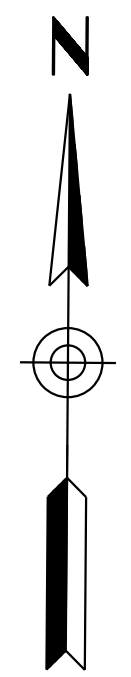
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	V. CASTANEDA	DATE	3-19	
CHECKED	A. HATHCOCK	DATE	3-19	
<b>Kimley»Horn</b>		RUTHRAUFF ROAD REMOVAL SHEET STA 80+00 TO STA 94+00		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO.	H8480 OIC		010-D(213)S	OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	148	849	

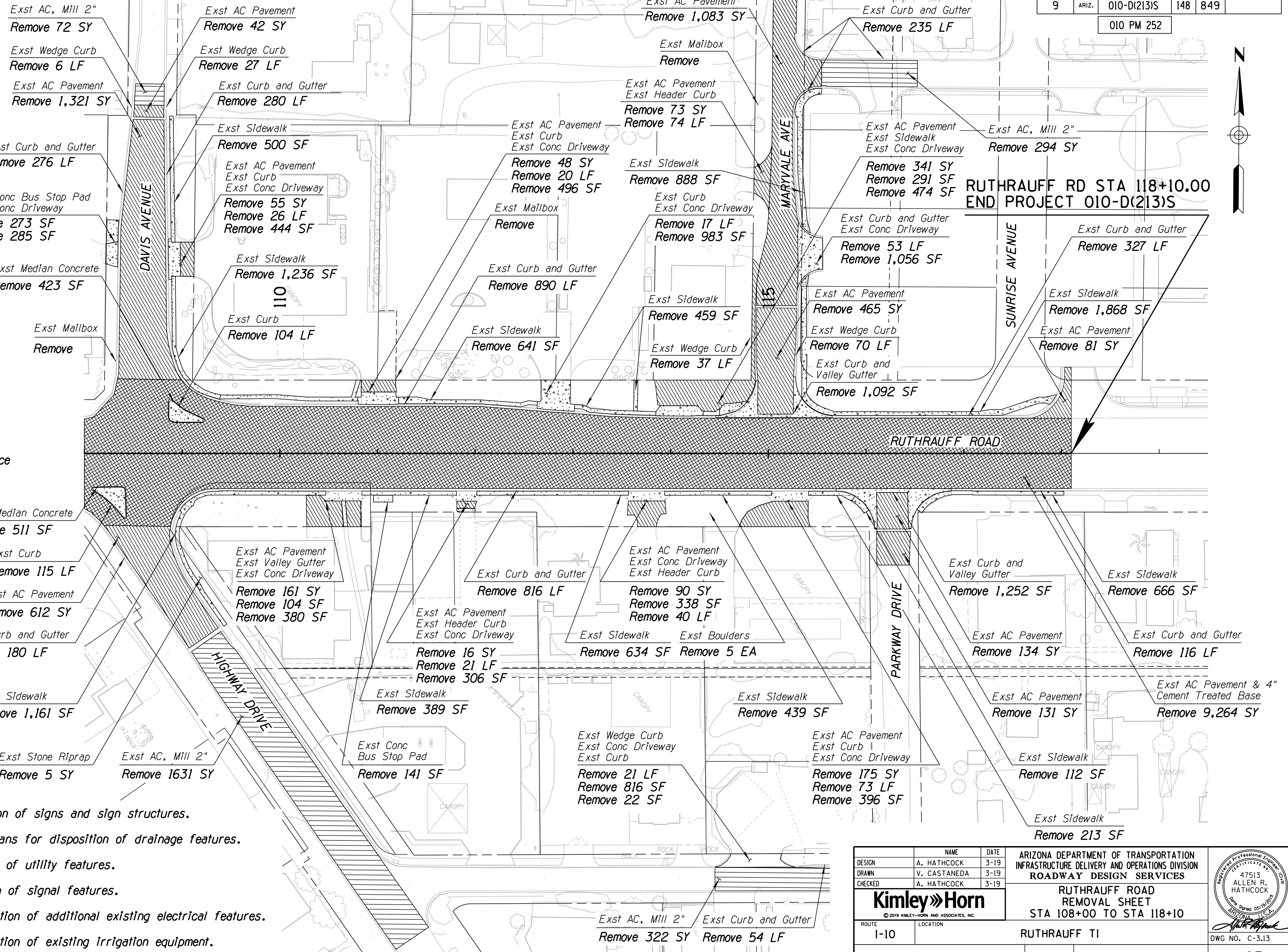
010 PM 252



RUTHRAUFF RD STA 118+10.00  
END PROJECT 010-D(213)S

**LEGEND**

- AC Pavement To Be Removed
- PCCP Pavement To Be Removed
- Concrete To Be Removed
- AC Pavement & 4" Cement Treated Base To Be Removed
- AC Pavement 2" Mill
- Chain Link/Cable Fence To Be Removed
- Exst Median Concrete Remove 423 SF
- Exst Mailbox Remove



**GENERAL NOTES:**

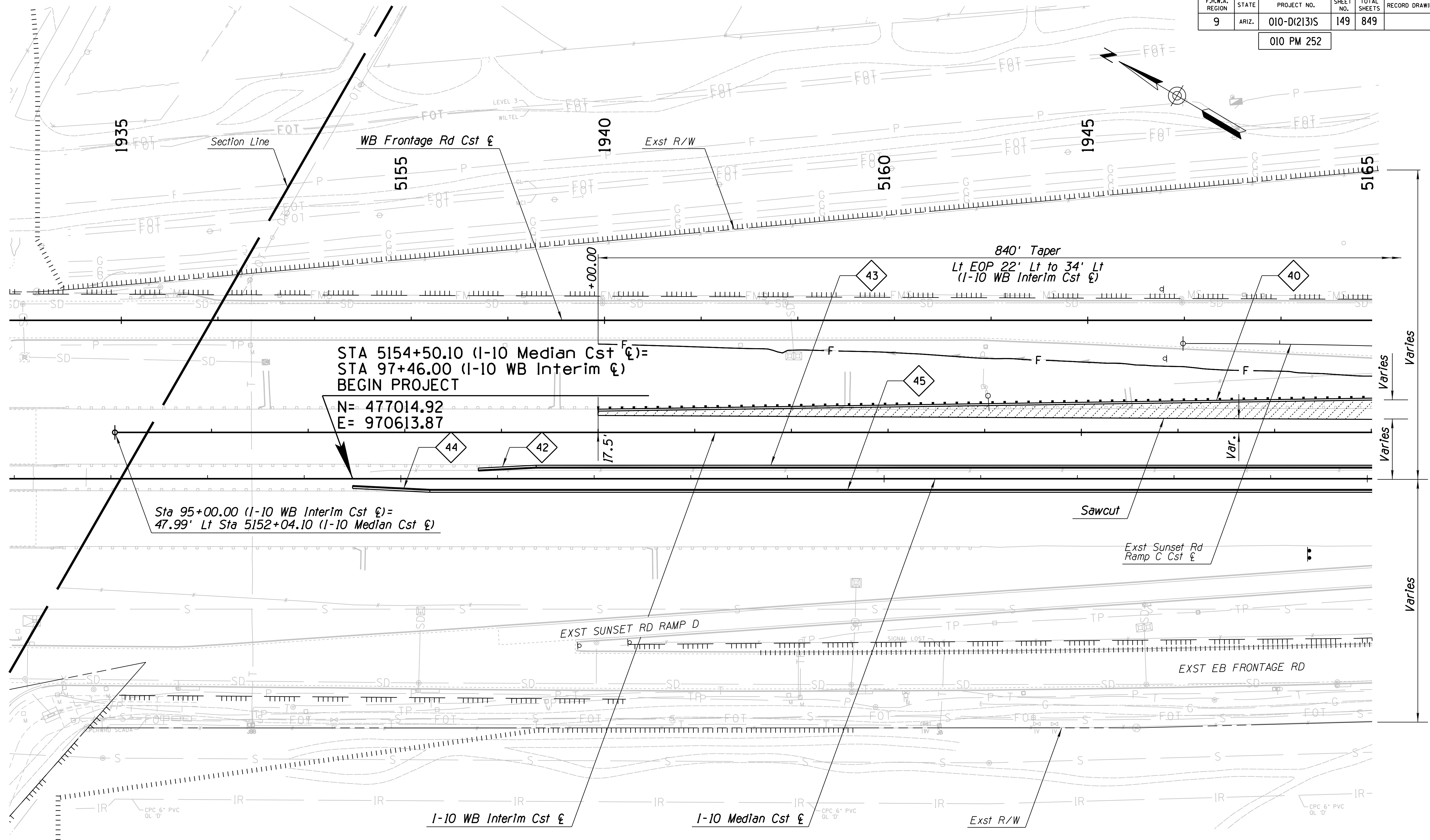
1. See Signing Plans for disposition of signs and sign structures.
2. See Storm Drain and Culvert Plans for disposition of drainage features.
3. See Utility Plans for disposition of utility features.
4. See Signal Plans for disposition of signal features.
5. See Electrical Plans for disposition of additional existing electrical features.
6. See Irrigation Plans for disposition of existing irrigation equipment.

DESIGN	A. HATHCOCK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	3-19		
CHECKED	A. HATHCOCK	3-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD REMOVAL SHEET STA 108+00 TO STA 118+10		DWG NO. C-3.13 <b>OF</b>
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO. H8480 OIC		010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	149	849	

010 PM 252

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



STA 5154+50.10 (I-10 Median Cst) =  
 STA 97+46.00 (I-10 WB Interim Cst)  
 BEGIN PROJECT

N= 477014.92  
 E= 970613.87

Sta 95+00.00 (I-10 WB Interim Cst) =  
 47.99' Lt Sta 5152+04.10 (I-10 Median Cst)

DESIGN	ICO	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JK	DATE	3-19

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

**PLAN SHEET**  
**I-10 MAINLINE**  
**Sta 5151+00 to 5165+00**

ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 01C      010-D(213)S      OF

WSP USA Inc.  
 1230 W. Washington St.  
 Suite 405  
 Tempe, AZ 85281

Expires 9/30/2019  
 DWG NO. C-4.01

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	150	849	

010 PM 252

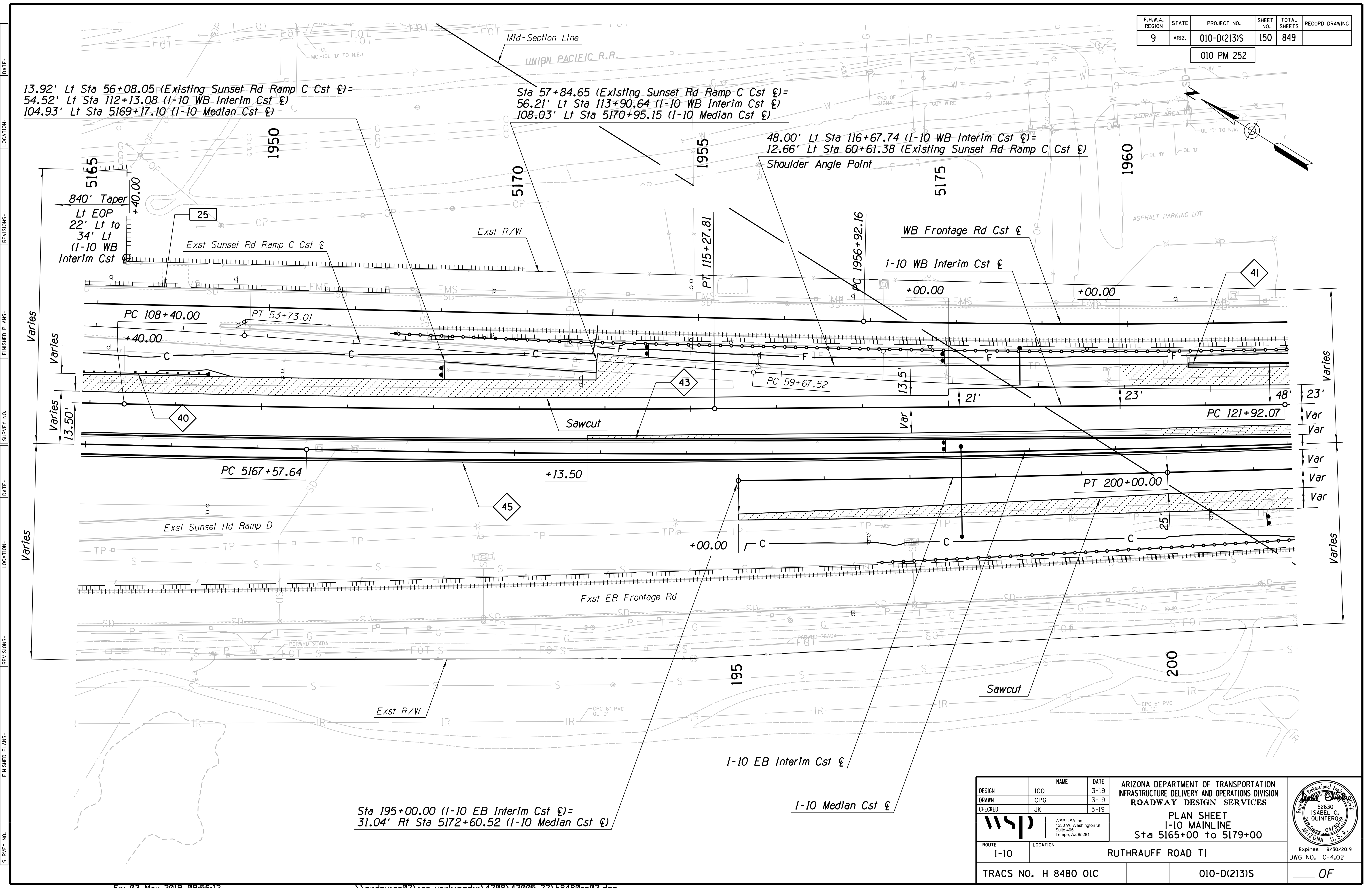
13.92' Lt Sta 56+08.05 (Existing Sunset Rd Ramp C Cst  $\epsilon$ )=  
 54.52' Lt Sta 112+13.08 (I-10 WB Interim Cst  $\epsilon$ )  
 104.93' Lt Sta 5169+17.10 (I-10 Median Cst  $\epsilon$ )

Sta 57+84.65 (Existing Sunset Rd Ramp C Cst  $\epsilon$ )=  
 56.21' Lt Sta 113+90.64 (I-10 WB Interim Cst  $\epsilon$ )  
 108.03' Lt Sta 5170+95.15 (I-10 Median Cst  $\epsilon$ )

48.00' Lt Sta 116+67.74 (I-10 WB Interim Cst  $\epsilon$ )=  
 12.66' Lt Sta 60+61.38 (Existing Sunset Rd Ramp C Cst  $\epsilon$ )  
 Shoulder Angle Point

Sta 195+00.00 (I-10 EB Interim Cst  $\epsilon$ )=  
 31.04' Rt Sta 5172+60.52 (I-10 Median Cst  $\epsilon$ )

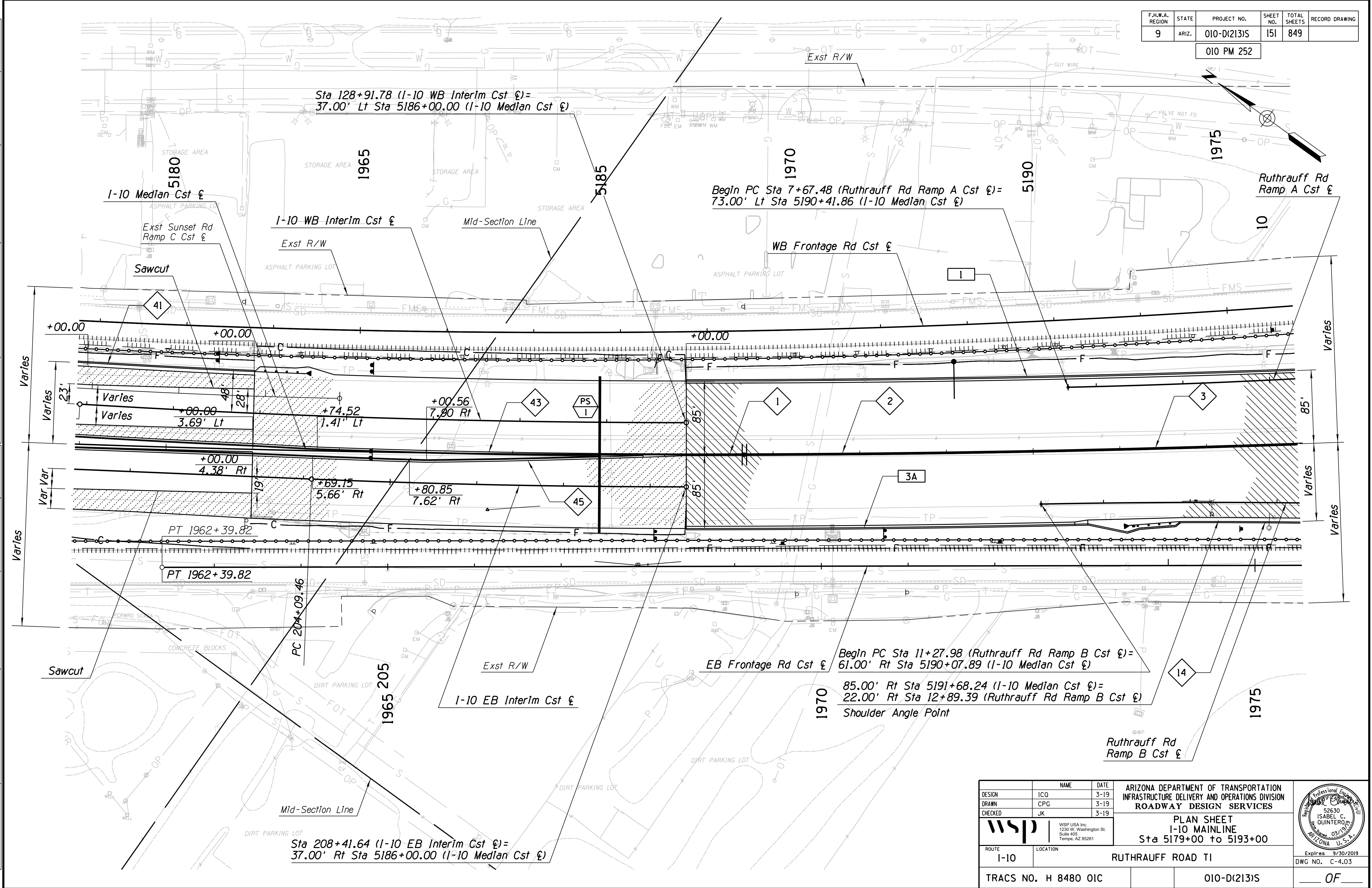
I-10 Median Cst  $\epsilon$



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>PLAN SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5165+00 to 5179+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWC NO. C-4.02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	151	849	

010 PM 252

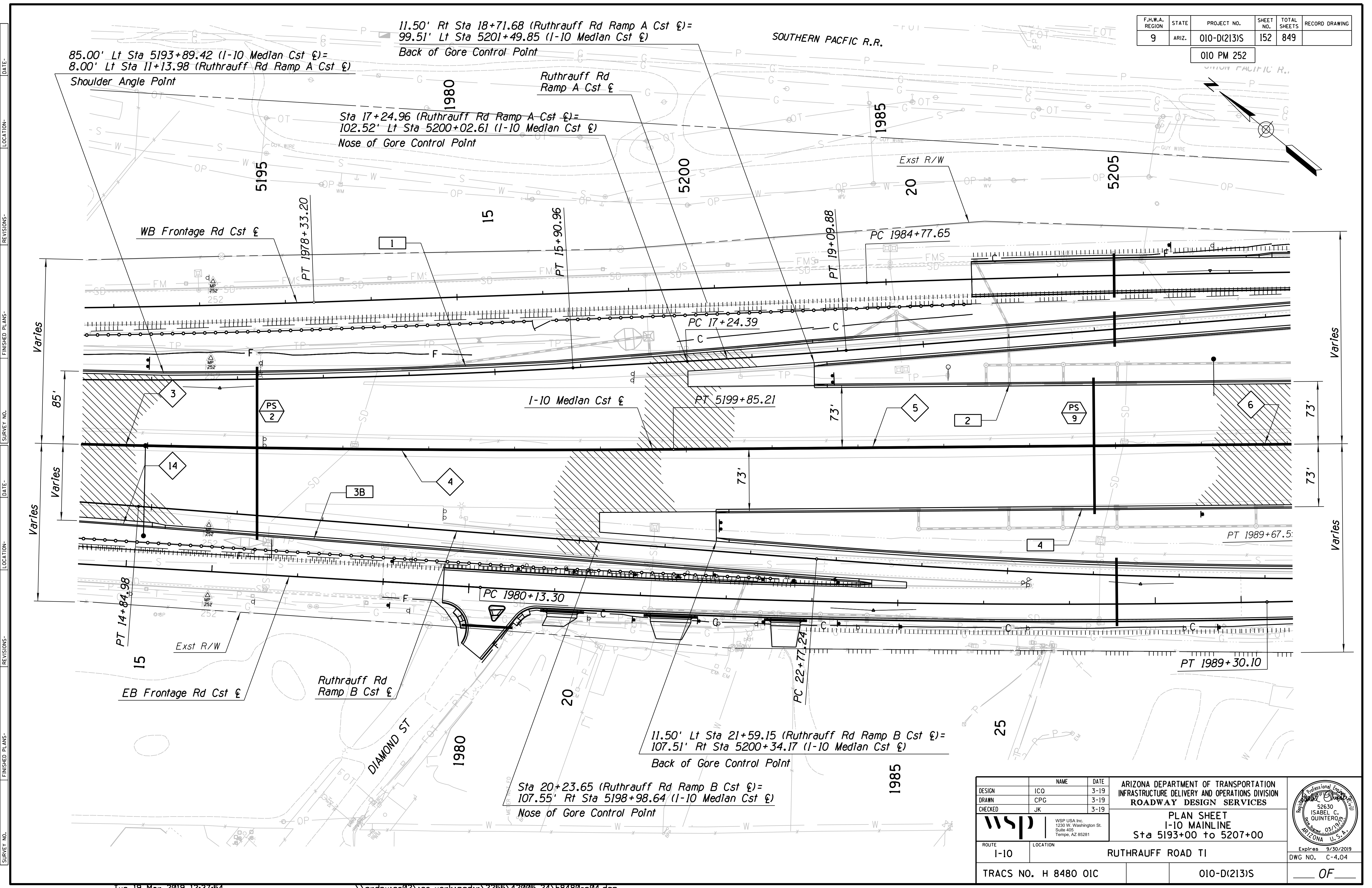


SURVEY NO. LOCATION DATE FINISHED PLANS REVISIONS DATE SURVEY NO. LOCATION DATE FINISHED PLANS REVISIONS DATE SURVEY NO. LOCATION DATE FINISHED PLANS REVISIONS DATE

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>PLAN SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5179+00 to 5193+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	Expires 9/30/2019 DWG NO. C-4.03	
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	152	849	

010 PM 252

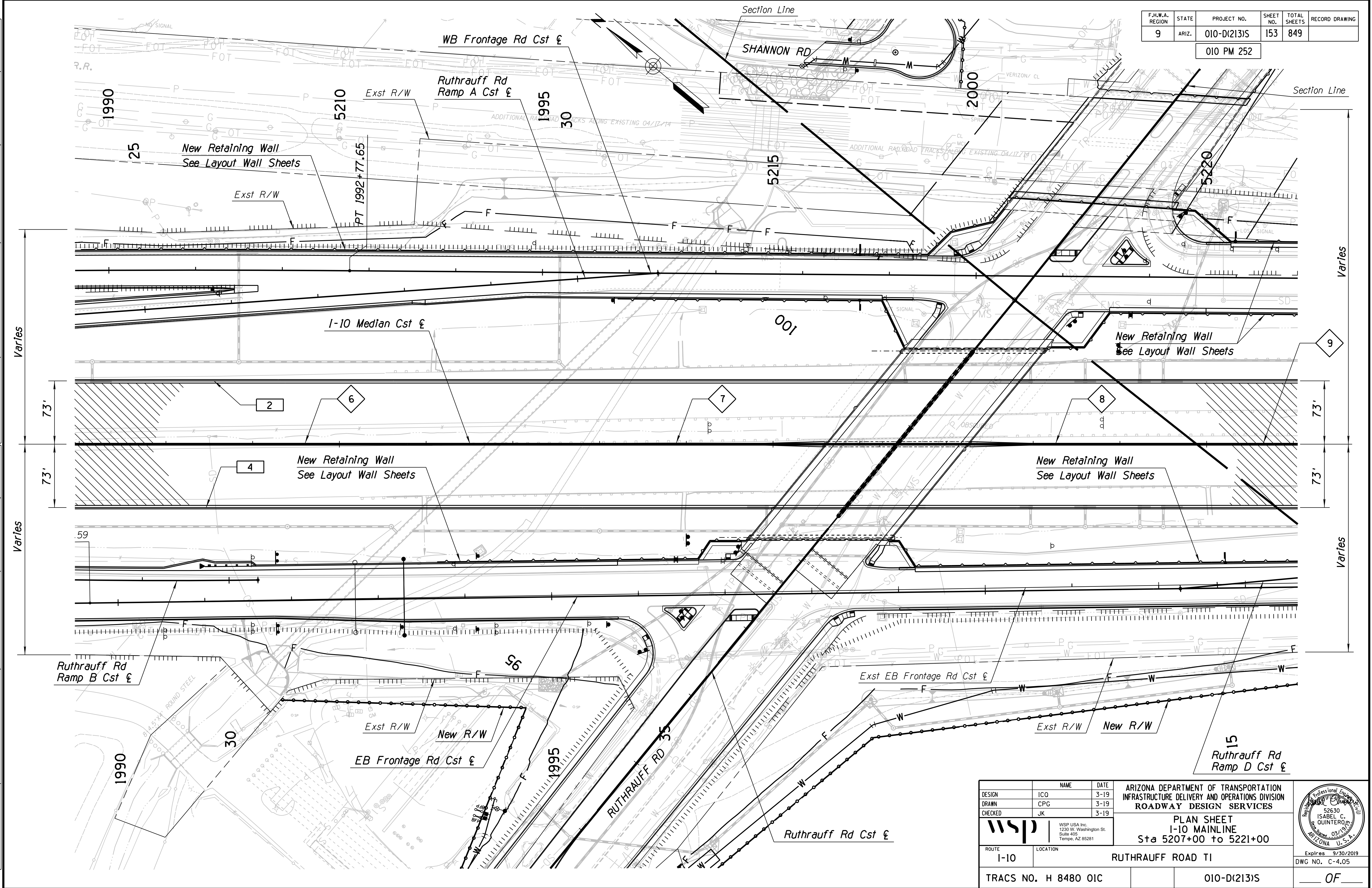


SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE LOCATION REVISIONS SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	ICO	3-19	
CHECKED	CPG	3-19	
			<b>PLAN SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5193+00 to 5207+00</b>
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			
ROUTE	LOCATION		Expires 9/30/2019 DWG NO. C-4.04
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	153	849	

010 PM 252



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

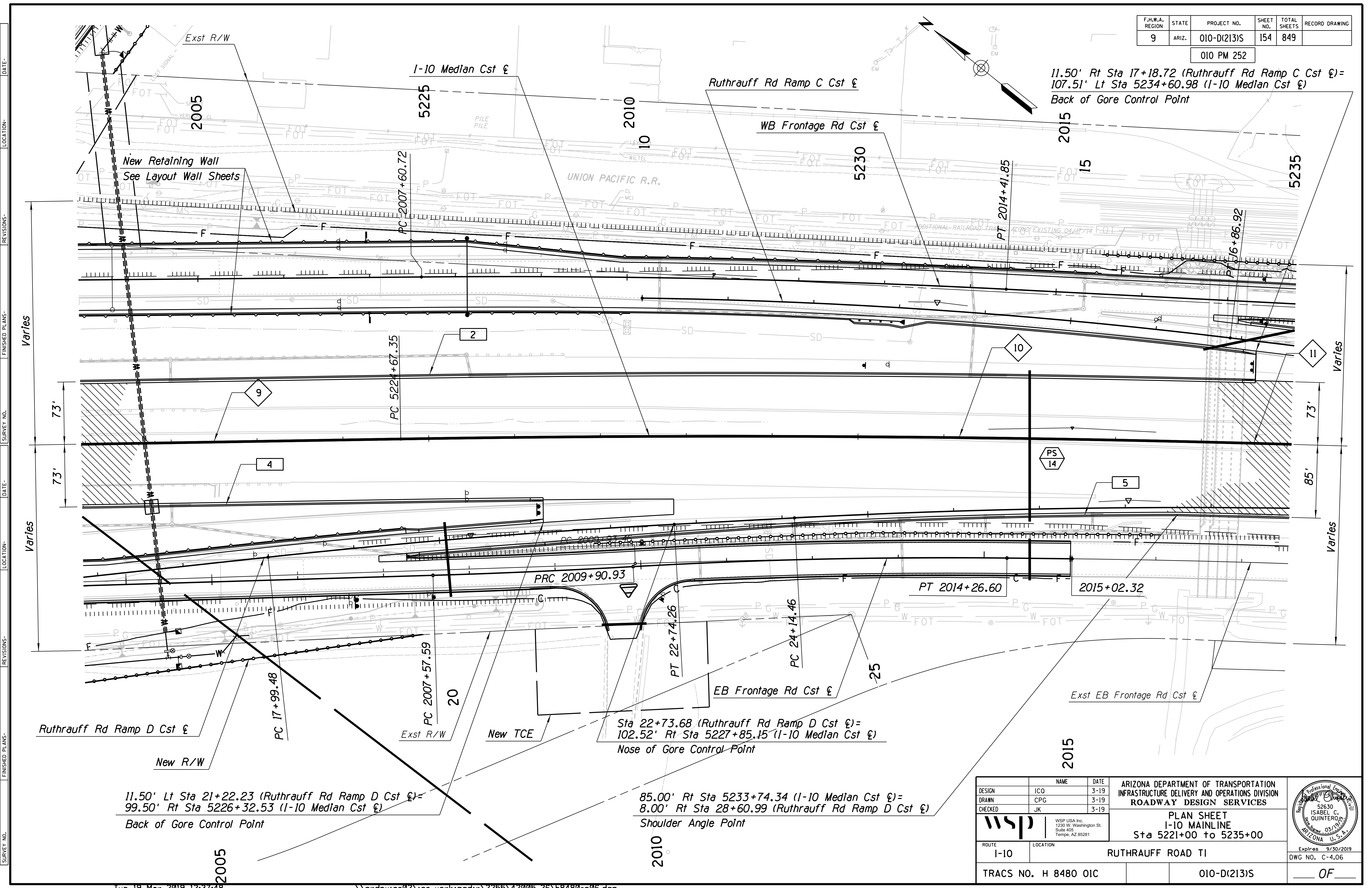
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>I-10 MAINLINE</b> Sta 5207+00 to 5221+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE: I-10    LOCATION: RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. C-4.05	
TRACS NO. H 8480 OIC			010-D(213)S		



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	154	849	

010 PM 252

11.50' Rt Sta 17+18.72 (Ruthrauff Rd Ramp C Cst  $\epsilon$ ) =  
107.51' Lt Sta 5234+60.98 (I-10 Median Cst  $\epsilon$ )  
Back of Gore Control Point



11.50' Lt Sta 21+22.23 (Ruthrauff Rd Ramp D Cst  $\epsilon$ ) =  
99.50' Rt Sta 5226+32.53 (I-10 Median Cst  $\epsilon$ )  
Back of Gore Control Point

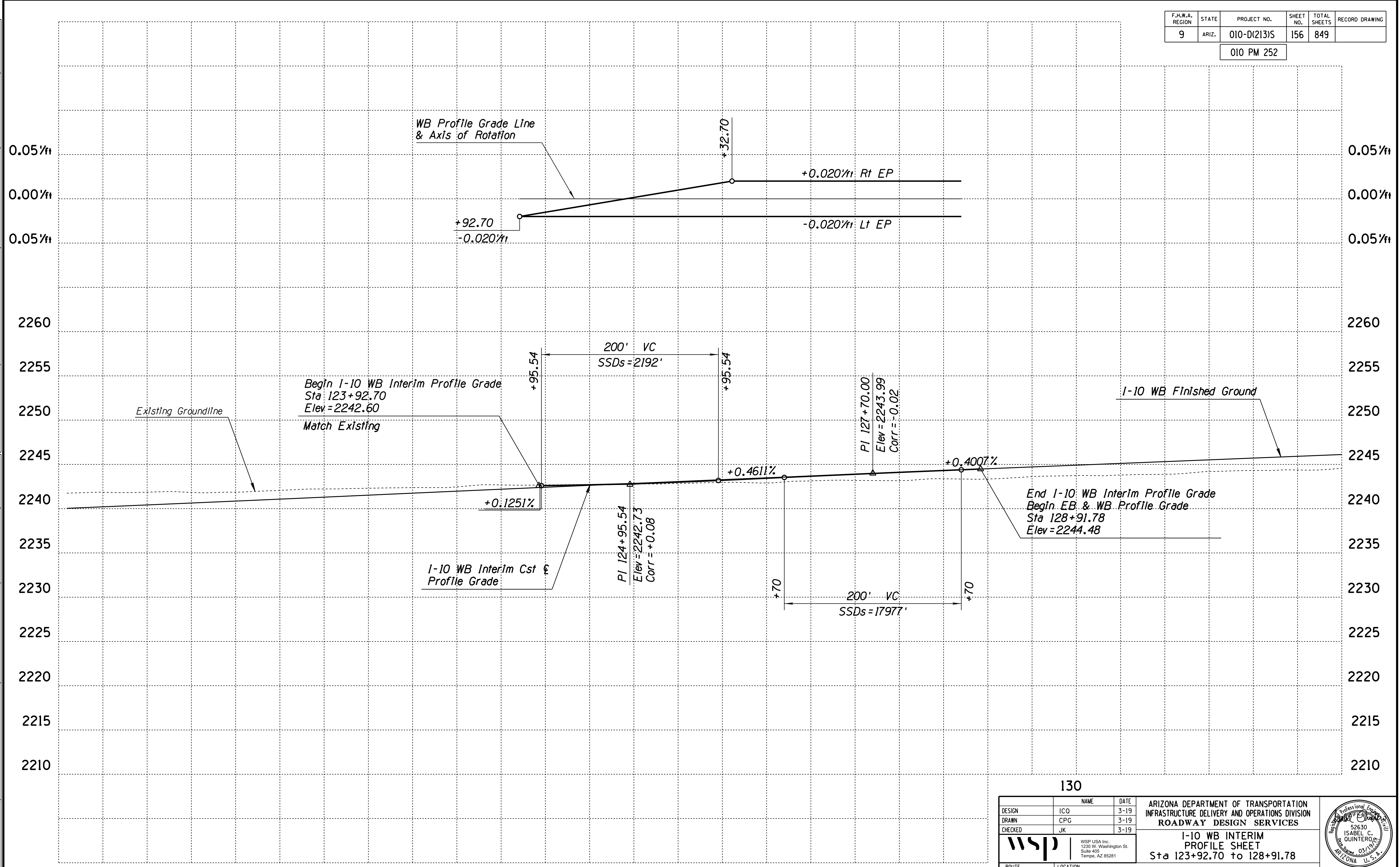
85.00' Rt Sta 5233+74.34 (I-10 Median Cst  $\epsilon$ ) =  
8.00' Rt Sta 28+60.99 (Ruthrauff Rd Ramp D Cst  $\epsilon$ )  
Shoulder Angle Point

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>PLAN SHEET</b> <b>I-10 MAINLINE</b> <b>Sta 5221+00 to 5235+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	156	849	

010 PM 252



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

120

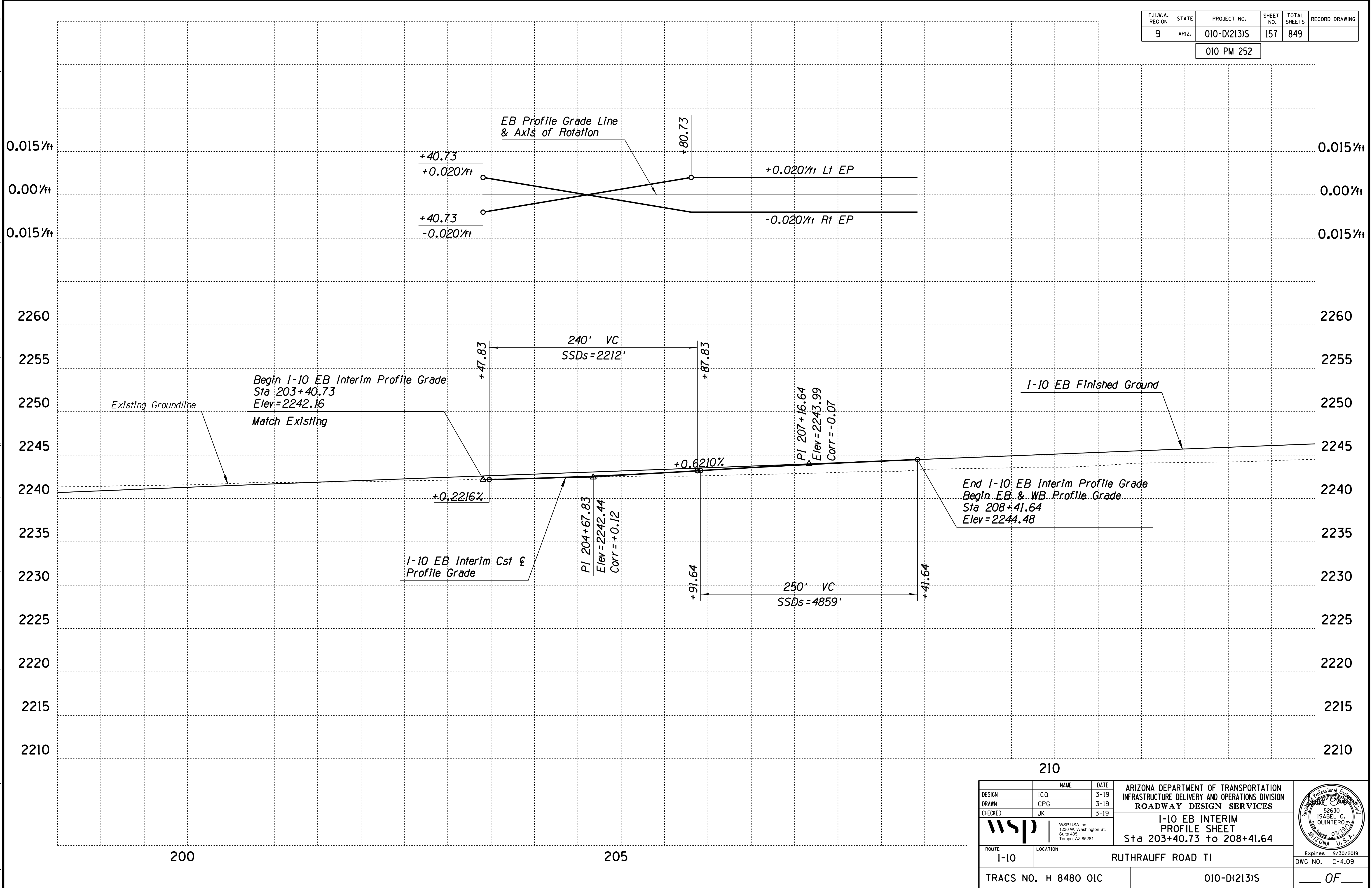
125

130

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		I-10 WB INTERIM PROFILE SHEET Sta 123+92.70 to 128+91.78	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-4.08 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	157	849	

010 PM 252

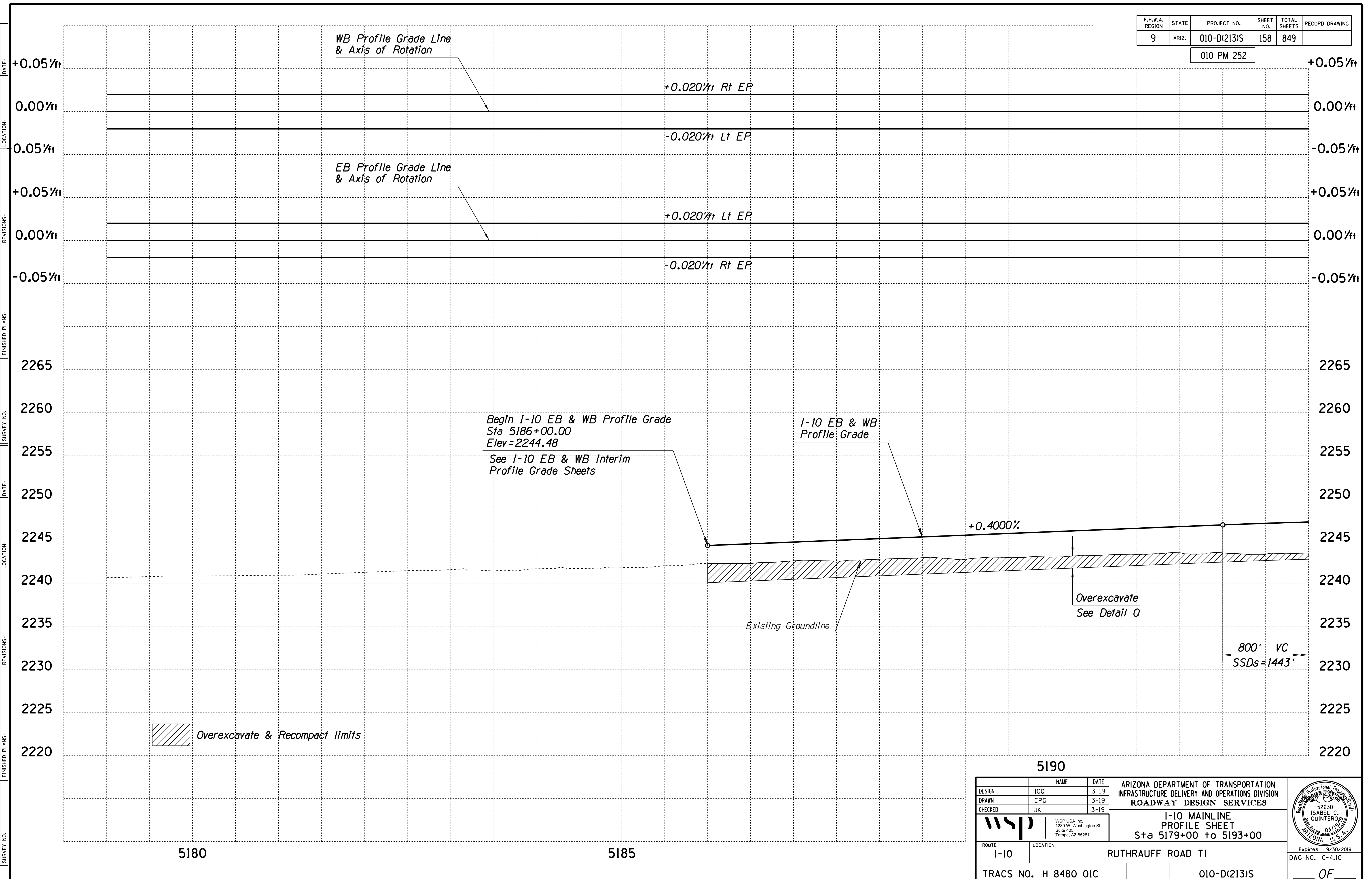


SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

ROUTE 210		LOCATION RUTHRAUFF ROAD TI	
DESIGN	ICO	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JK	DATE	3-19
		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		I-10 EB INTERIM PROFILE SHEET Sta 203+40.73 to 208+41.64	
TRACS NO. H 8480 OIC		010-D(213)S	
Expires 9/30/2019 DWG NO. C-4.09			

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	158	849	

010 PM 252



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

**5190**

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	

**WSP** WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281

**1-10 MAINLINE PROFILE SHEET**  
Sta 5179+00 to 5193+00

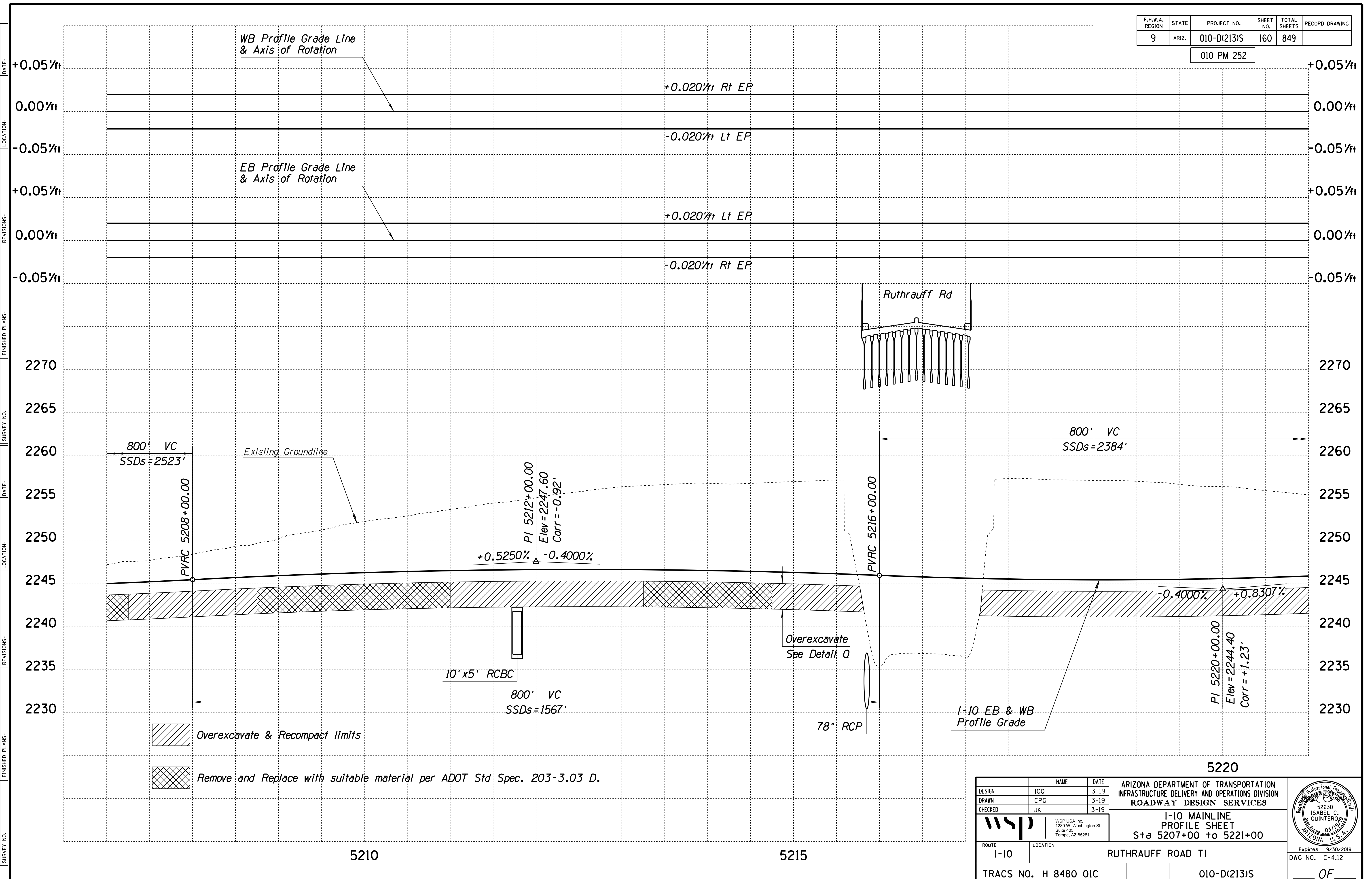
Expires 9/30/2019  
DWG NO. C-4.10

ROUTE	LOCATION	TRACS NO.	PROJECT NO.
I-10	RUTHRAUFF ROAD TI	H 8480 OIC	010-D(213)S



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	160	849	

010 PM 252

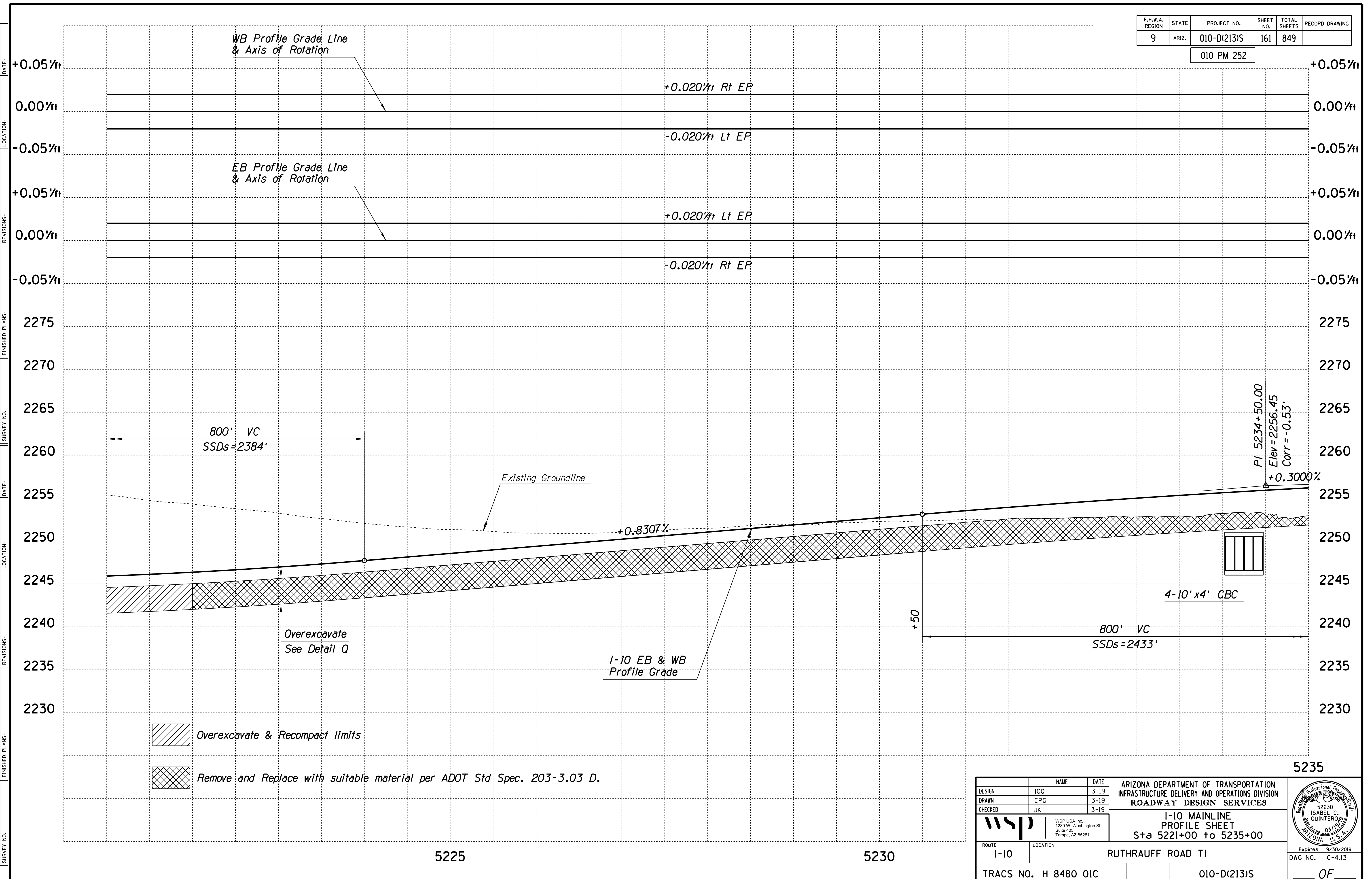


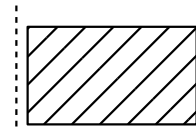

Overexcavate & Recompact limits  
 Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.


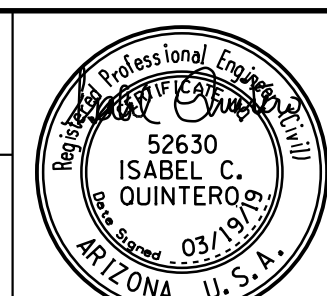
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		5220 <b>I-10 MAINLINE          PROFILE SHEET</b> Sta 5207+00 to 5221+00
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. C-4.12 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	161	849	

010 PM 252



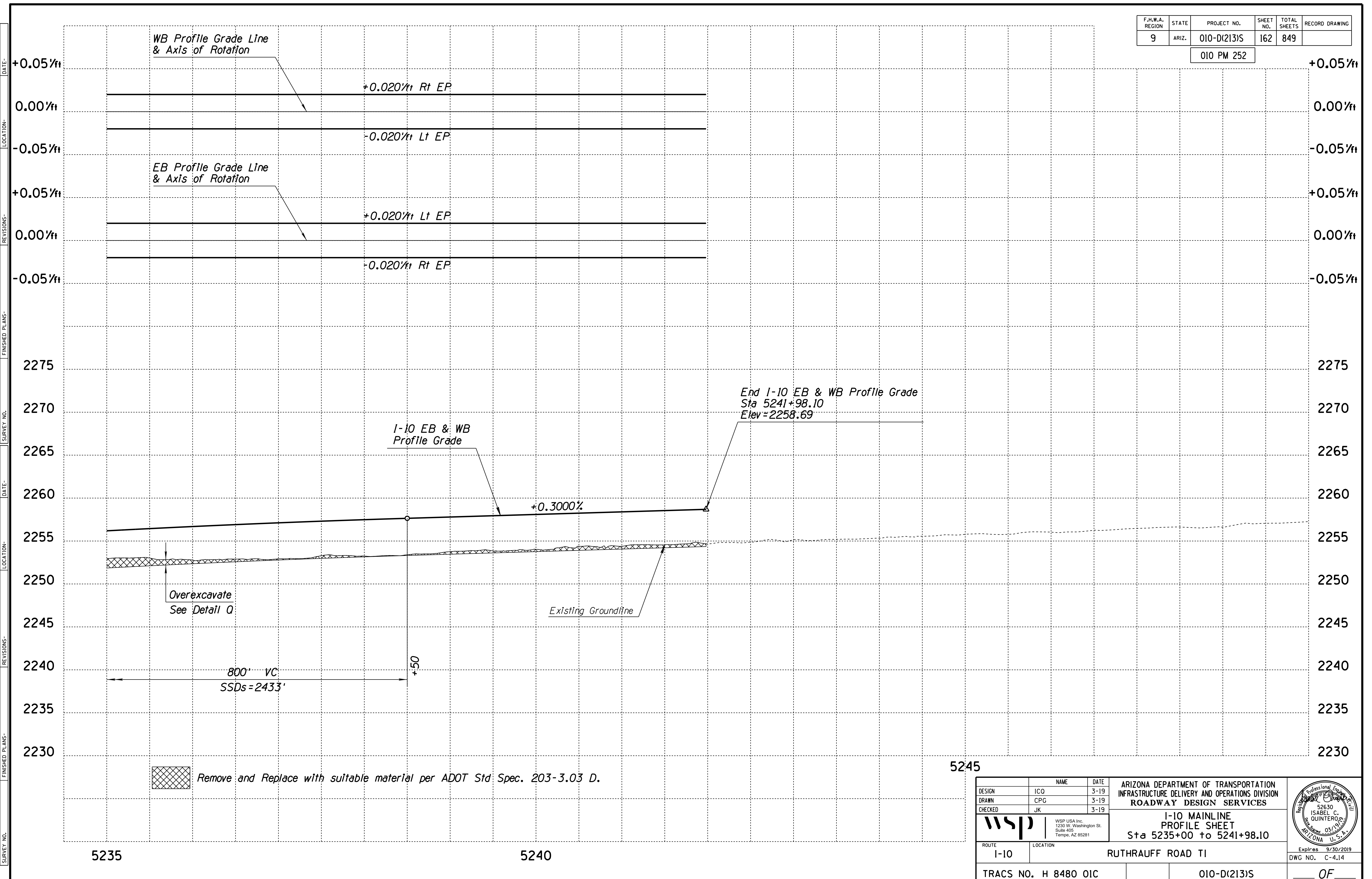
-  Overexcavate & Recompact Limits
-  Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE 1-10 LOCATION RUTHRAUFF ROAD TI		I-10 MAINLINE PROFILE SHEET Sta 5221+00 to 5235+00		
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. C-4.13



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	162	849	

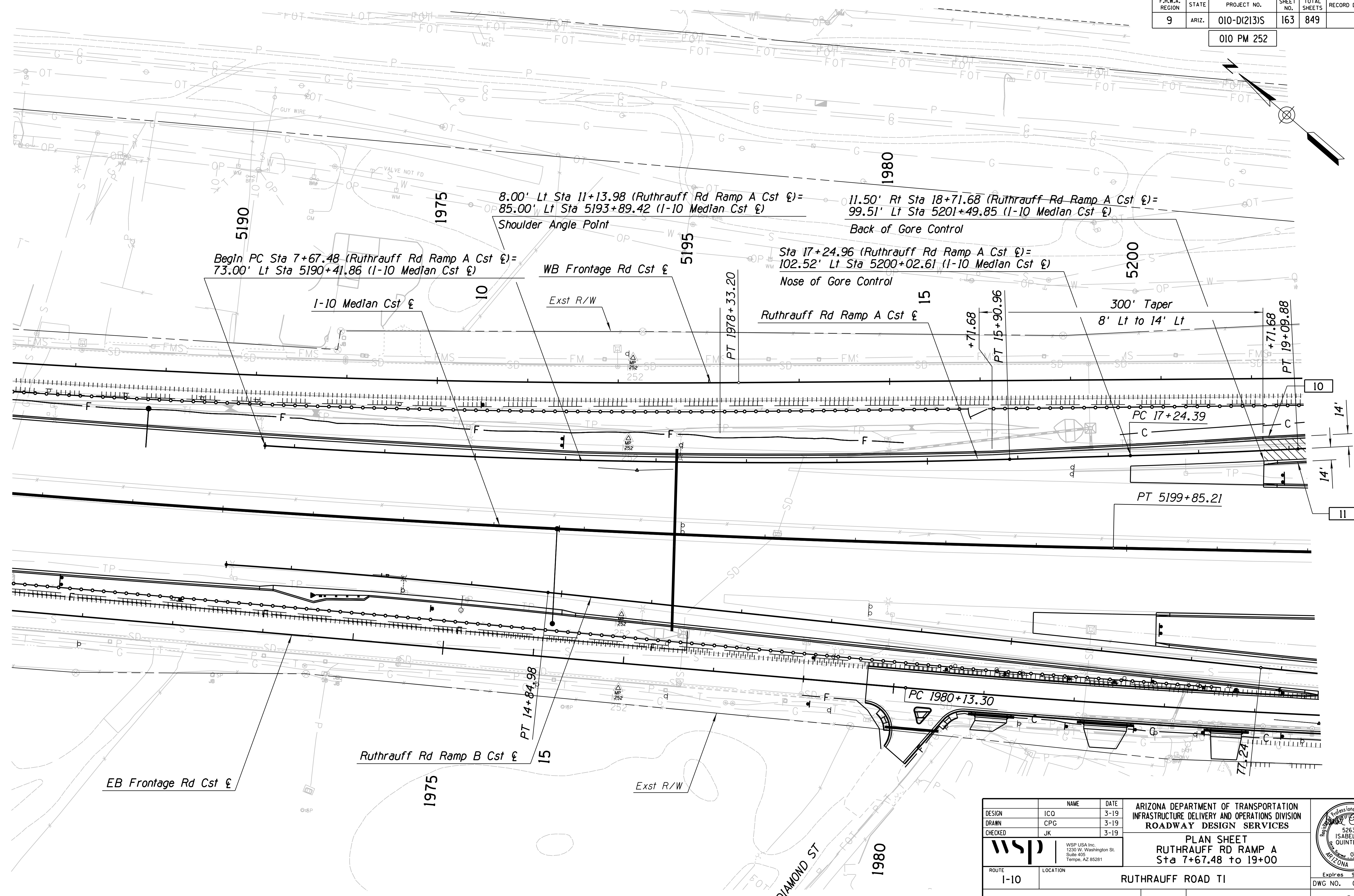
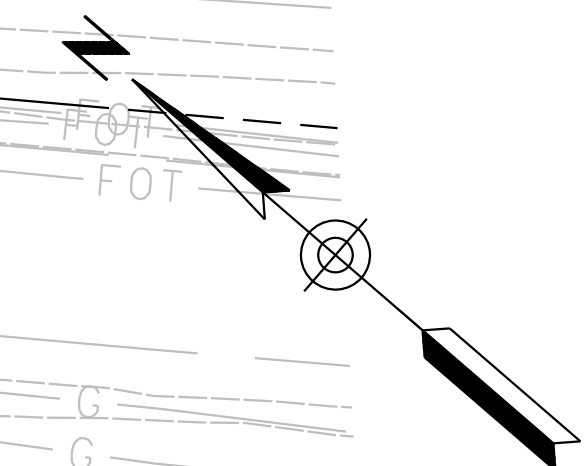
010 PM 252



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>1-10 MAINLINE          PROFILE SHEET</b> Sta 5235+00 to 5241+98.10	
DRAWN	CPG	3-19			
CHECKED	JK	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC      010-D(213)S      DWG NO. C-4.14      Expires 9/30/2019	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	163	849	

010 PM 252



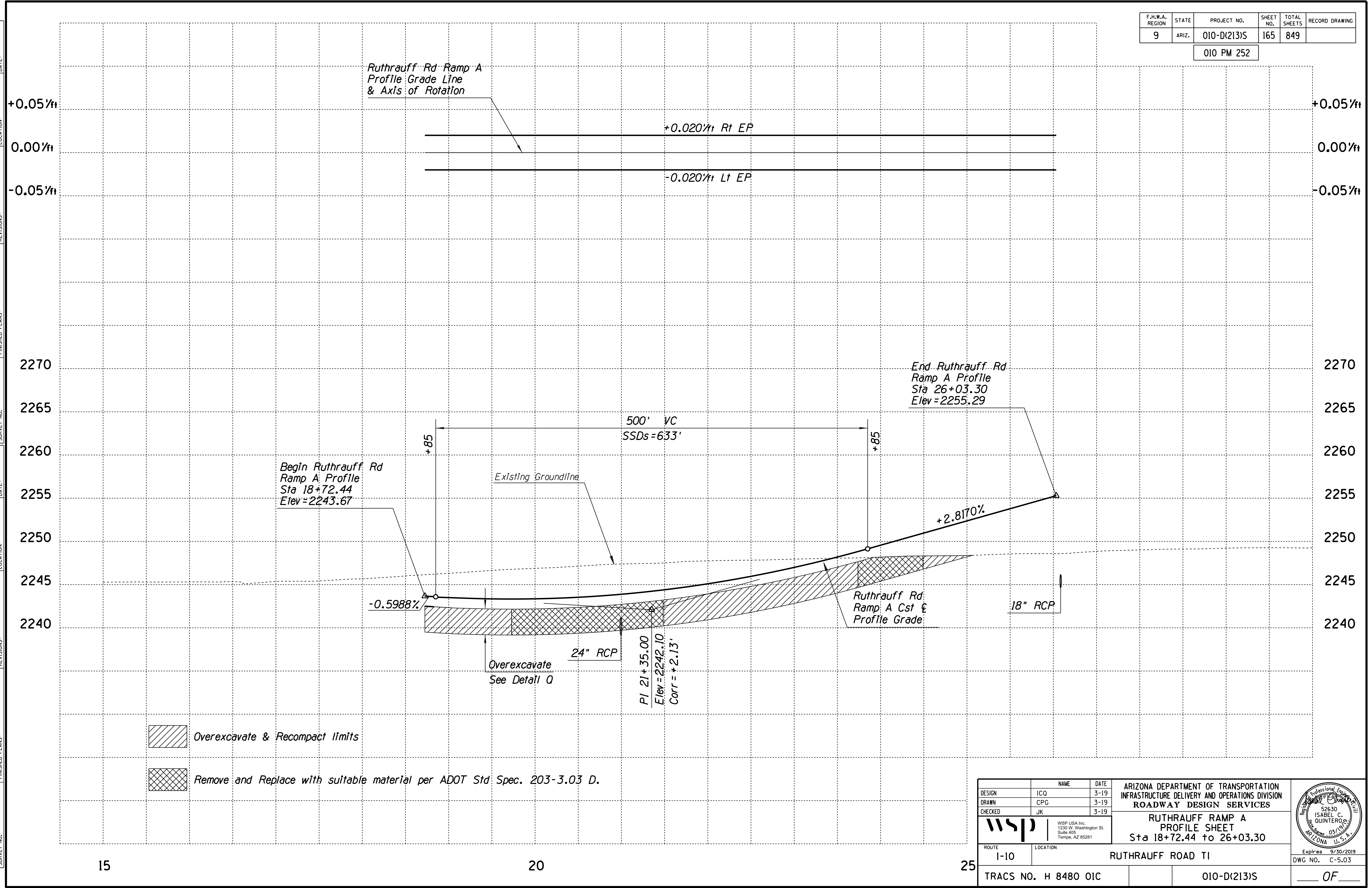
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE

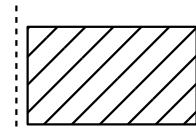

DESIGN	ICO	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>RUTHRAUFF RD RAMP A</b> <b>Sta 7+67.48 to 19+00</b>	
DRAWN	CPG	3-19			
CHECKED	JK	3-19			
ROUTE 1-10		LOCATION RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. C-5.01	
TRACS NO. H 8480 OIC			010-D(213)S		


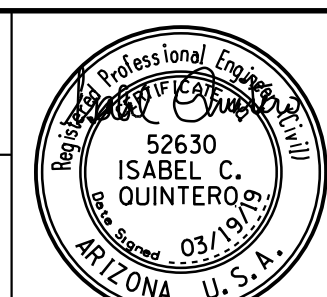


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	165	849	

010 PM 252

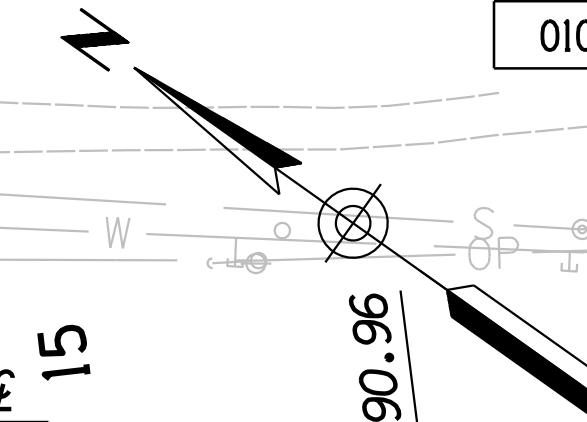


-  Overexcavate & Recompact Limits
-  Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

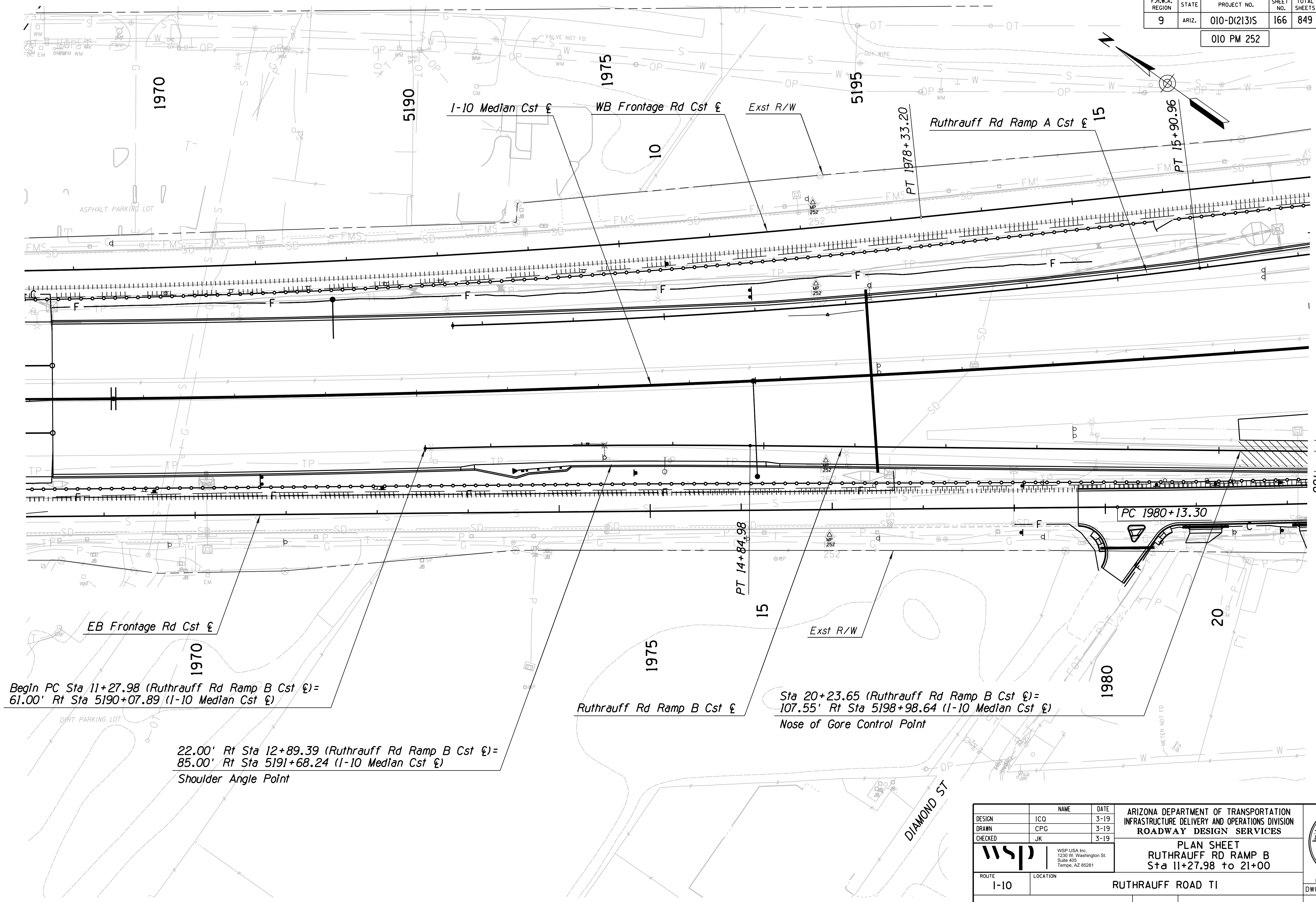
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE 1-10 LOCATION RUTHRAUFF ROAD TI		RUTHRAUFF RAMP A PROFILE SHEET Sta 18+72.44 to 26+03.30		
TRACS NO. H 8480 OIC			010-D(213)S	Expires 9/30/2019 DWG NO. C-5.03 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	166	849	

010 PM 252



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



Begin PC Sta 11+27.98 (Ruthrauff Rd Ramp B Cst  $\epsilon$ ) = 61.00' Rt Sta 5190+07.89 (I-10 Median Cst  $\epsilon$ )

22.00' Rt Sta 12+89.39 (Ruthrauff Rd Ramp B Cst  $\epsilon$ ) = 85.00' Rt Sta 5191+68.24 (I-10 Median Cst  $\epsilon$ )  
Shoulder Angle Point

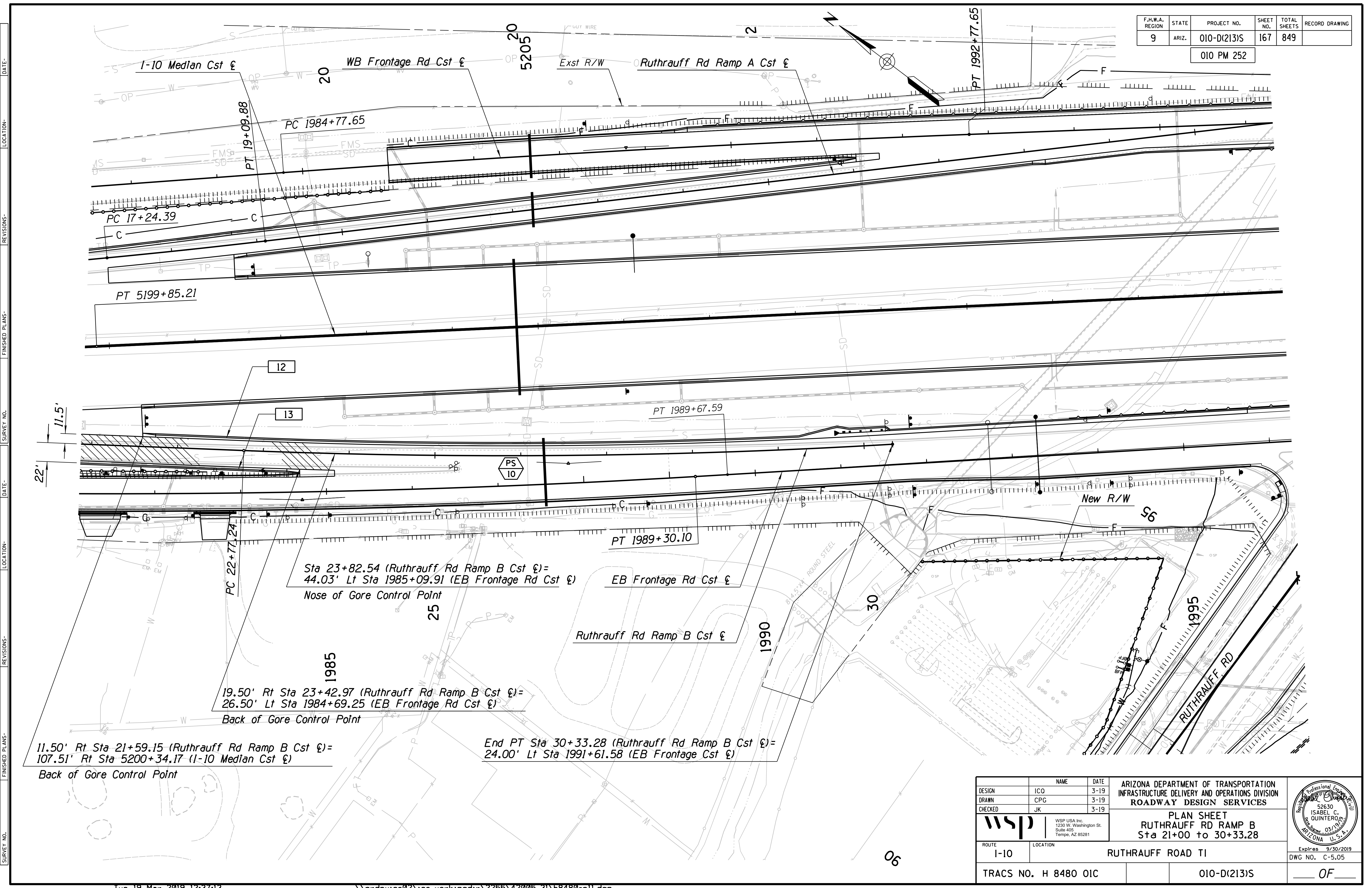
Ruthrauff Rd Ramp B Cst  $\epsilon$

Sta 20+23.65 (Ruthrauff Rd Ramp B Cst  $\epsilon$ ) = 107.55' Rt Sta 5198+98.64 (I-10 Median Cst  $\epsilon$ )  
Nose of Gore Control Point

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JK	DATE	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		PLAN SHEET RUTHRAUFF RD RAMP B Sta 11+27.98 to 21+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			Expires 9/30/2019
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. C-5.04	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	167	849	

010 PM 252



Sta 23+82.54 (Ruthrauff Rd Ramp B Cst) =  
44.03' Lt Sta 1985+09.91 (EB Frontage Rd Cst)  
Nose of Gore Control Point

19.50' Rt Sta 23+42.97 (Ruthrauff Rd Ramp B Cst) =  
26.50' Lt Sta 1984+69.25 (EB Frontage Rd Cst)  
Back of Gore Control Point

11.50' Rt Sta 21+59.15 (Ruthrauff Rd Ramp B Cst) =  
107.51' Rt Sta 5200+34.17 (I-10 Median Cst)  
Back of Gore Control Point

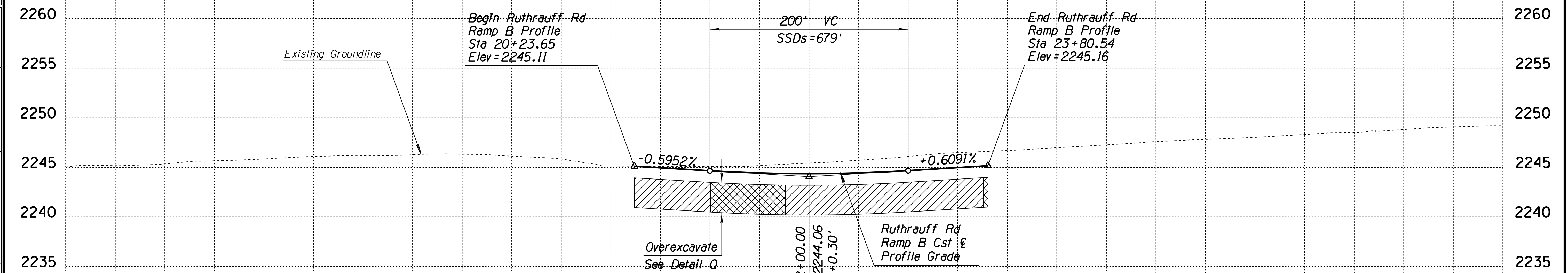
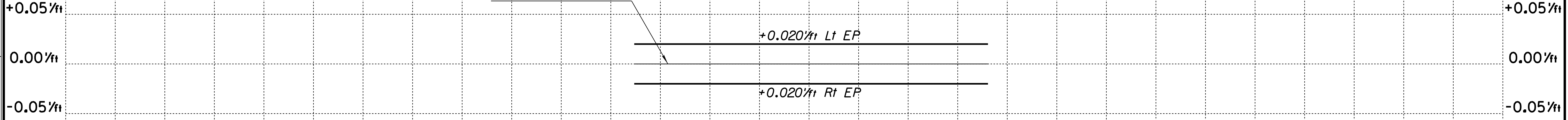
End PT Sta 30+33.28 (Ruthrauff Rd Ramp B Cst) =  
24.00' Lt Sta 1991+61.58 (EB Frontage Cst)

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>RUTHRAUFF RD RAMP B</b> <b>Sta 21+00 to 30+33.28</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		Expires 9/30/2019 DWG NO. C-5.05	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	168	849	

010 PM 252

Ruthrauff Rd Ramp B  
Profile Grade Line  
& Axis of Rotation



- Overexcavate & Recompact Limits
- Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>RUTHRAUFF RAMP B</b> <b>PROFILE SHEET</b> <b>Sta 20+23.65 to 23+80.54</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-5.06 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	169	849	

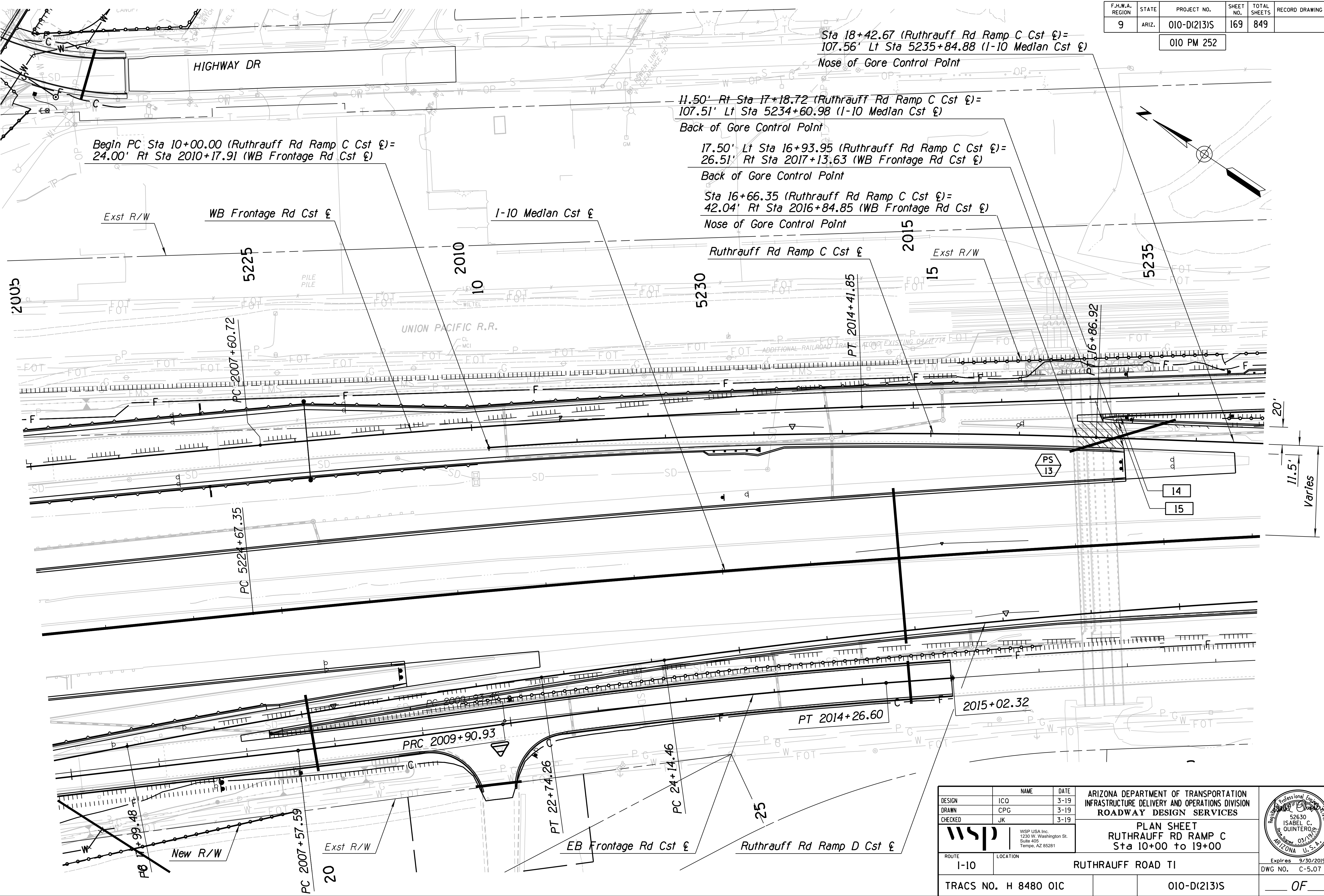
010 PM 252

Sta 18+42.67 (Ruthrauff Rd Ramp C Cst  $\epsilon$ ) =  
107.56' Lt Sta 5235+84.88 (I-10 Median Cst  $\epsilon$ )  
Nose of Gore Control Point

11.50' Rt Sta 17+18.72 (Ruthrauff Rd Ramp C Cst  $\epsilon$ ) =  
107.51' Lt Sta 5234+60.98 (I-10 Median Cst  $\epsilon$ )  
Back of Gore Control Point

17.50' Lt Sta 16+93.95 (Ruthrauff Rd Ramp C Cst  $\epsilon$ ) =  
26.51' Rt Sta 2017+13.63 (WB Frontage Rd Cst  $\epsilon$ )  
Back of Gore Control Point

Sta 16+66.35 (Ruthrauff Rd Ramp C Cst  $\epsilon$ ) =  
42.04' Rt Sta 2016+84.85 (WB Frontage Rd Cst  $\epsilon$ )  
Nose of Gore Control Point



20'  
11.5'  
Varies

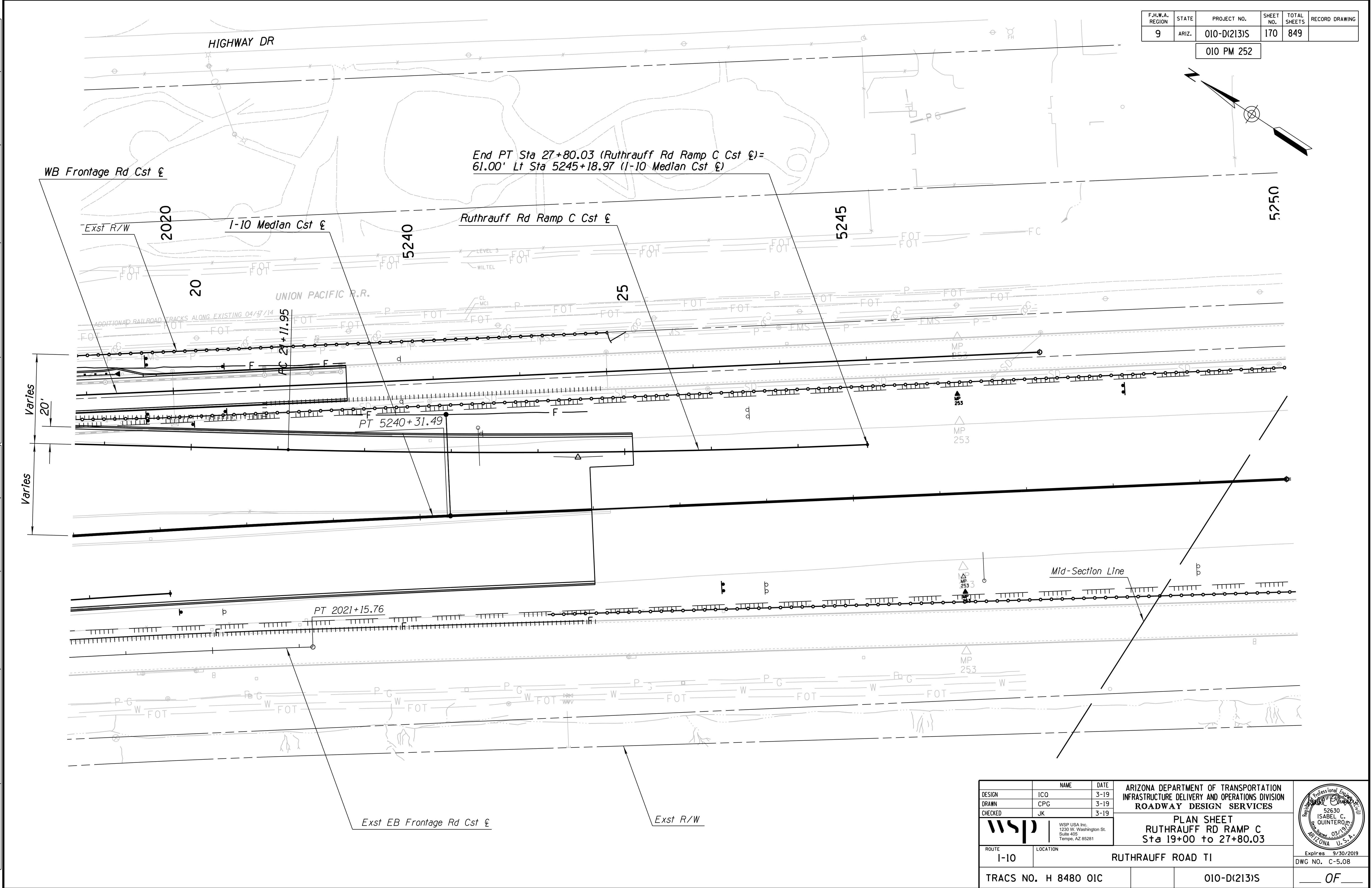
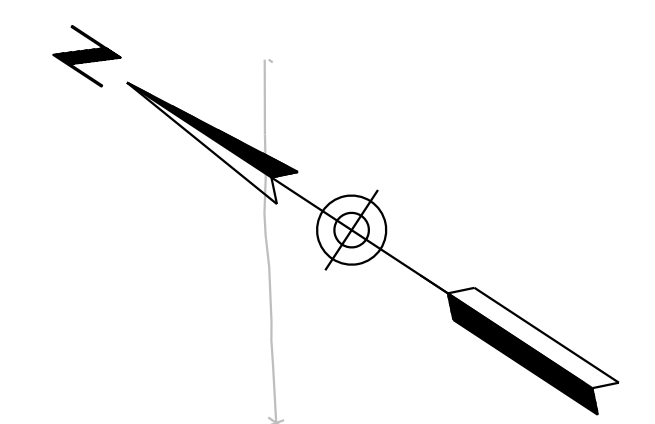
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>RUTHRAUFF RD RAMP C</b> <b>Sta 10+00 to 19+00</b>	
DRAWN	CPG	3-19		
CHECKED	JK	3-19		
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281				
ROUTE	LOCATION	Expires 9/30/2019 DWG NO. C-5.07		
TRACS NO. H 8480 OIC		010-D(213)S		

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-D(213)S	170	849	

010 PM 252



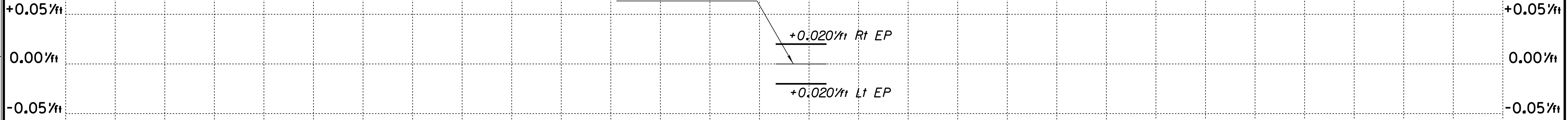
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		PLAN SHEET <b>RUTHRAUFF RD RAMP C</b> Sta 19+00 to 27+80.03	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C		010-D(213)S		Expires 9/30/2019 DWG NO. C-5.08	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	171	849	

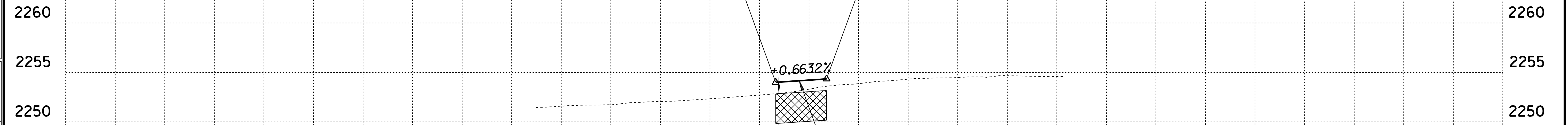
010 PM 252

Ruthrauff Rd Ramp C  
Profile Grade Line  
& Axis of Rotation



Begin Ruthrauff Rd  
Ramp C Profile  
Sta 16+66.35  
Elev = 2254.00

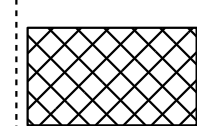
End Ruthrauff Rd  
Ramp C Profile  
Sta 17+17.62  
Elev = 2254.34





+0.6632%

Overexcavate  
See Detail Q

Ramp C Cst &  
Profile Grade

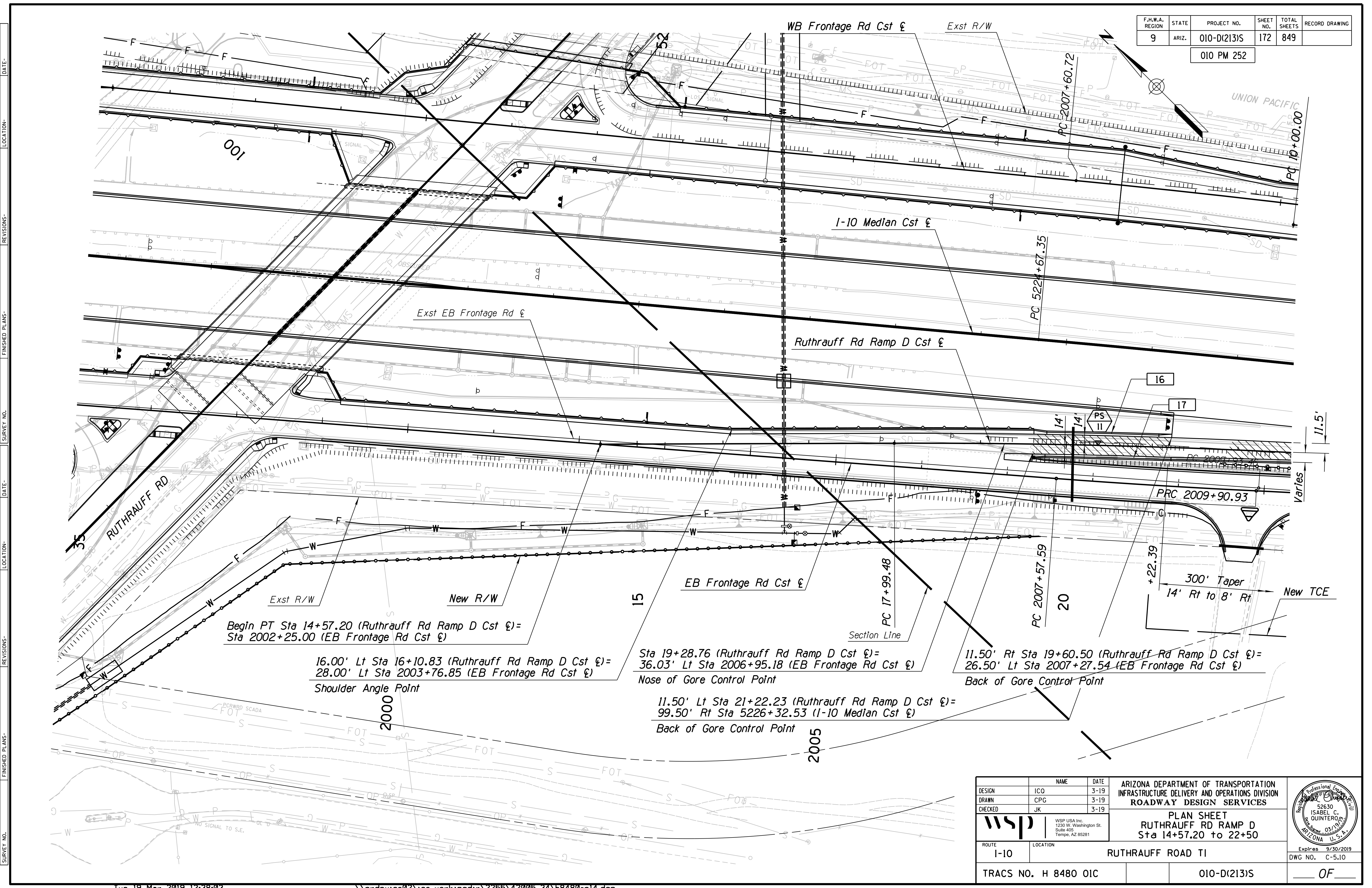
 Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>RUTHRAUFF RAMP C</b> <b>PROFILE SHEET</b> <b>Sta 16+66.35 to 17+17.62</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		ROUTE I-10		LOCATION RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. C-5.09 OF	

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	172	849	

010 PM 252



Begin PT Sta 14+57.20 (Ruthrauff Rd Ramp D Cst) =  
Sta 2002+25.00 (EB Frontage Rd Cst)

16.00' Lt Sta 16+10.83 (Ruthrauff Rd Ramp D Cst) =  
28.00' Lt Sta 2003+76.85 (EB Frontage Rd Cst)

Shoulder Angle Point

Sta 19+28.76 (Ruthrauff Rd Ramp D Cst) =  
36.03' Lt Sta 2006+95.18 (EB Frontage Rd Cst)

Nose of Gore Control Point

11.50' Rt Sta 19+60.50 (Ruthrauff Rd Ramp D Cst) =  
26.50' Lt Sta 2007+27.54 (EB Frontage Rd Cst)

Back of Gore Control Point

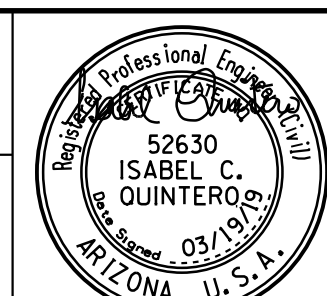
11.50' Lt Sta 21+22.23 (Ruthrauff Rd Ramp D Cst) =  
99.50' Rt Sta 5226+32.53 (I-10 Median Cst)

Back of Gore Control Point

DESIGN	NAME	DATE
DRAWN	ICP	3-19
CHECKED	JK	3-19

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

PLAN SHEET  
RUTHRAUFF RD RAMP D  
Sta 14+57.20 to 22+50



ROUTE	LOCATION
I-10	RUTHRAUFF ROAD TI

Expires 9/30/2019  
DWG NO. C-5.10

TRACS NO. H 8480 OIC

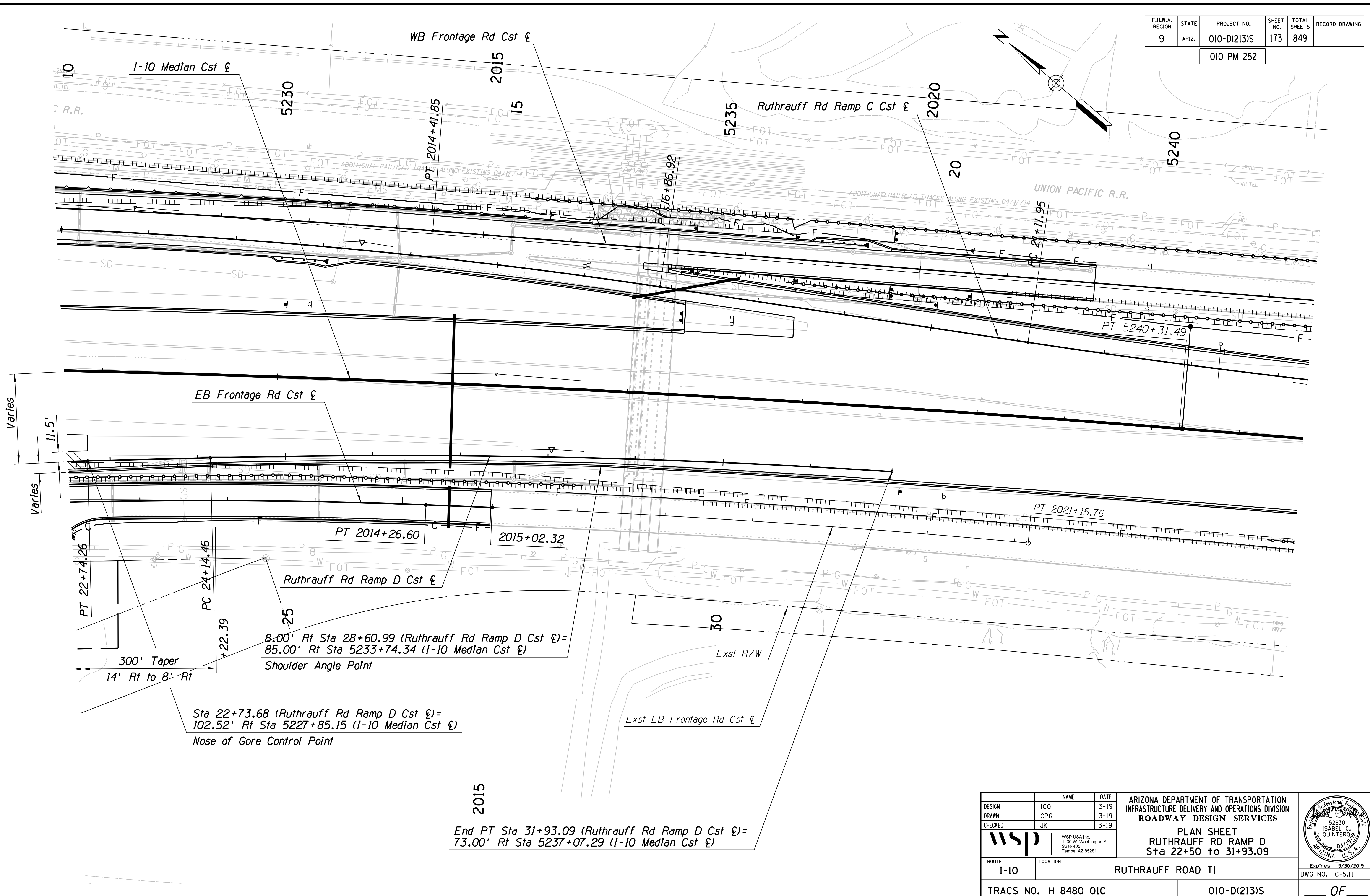
010-D(213)S

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	173	849	

010 PM 252

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



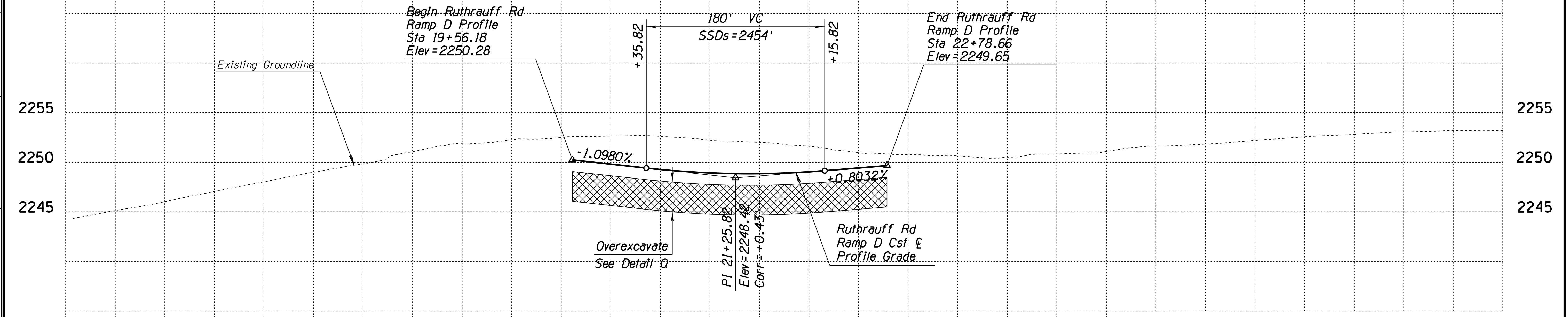
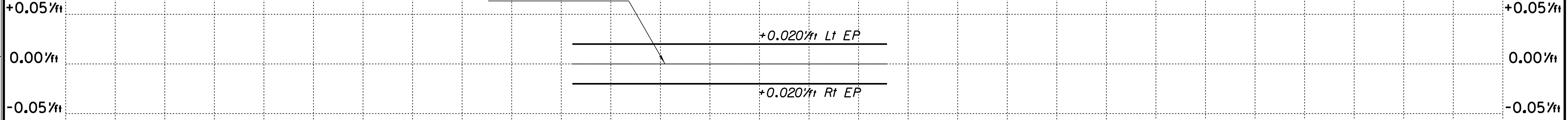
2015  
 End PT Sta 31+93.09 (Ruthrauff Rd Ramp D Cst €)=  
 73.00' Rt Sta 5237+07.29 (I-10 Median Cst €)

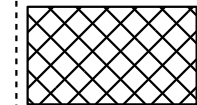
DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>RUTHRAUFF RD RAMP D</b> <b>Sta 22+50 to 31+93.09</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		Expires 9/30/2019 DWG NO. C-5.11	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	174	849	

010 PM 252

Ruthrauff Rd Ramp D  
Profile Grade Line  
& Axis of Rotation

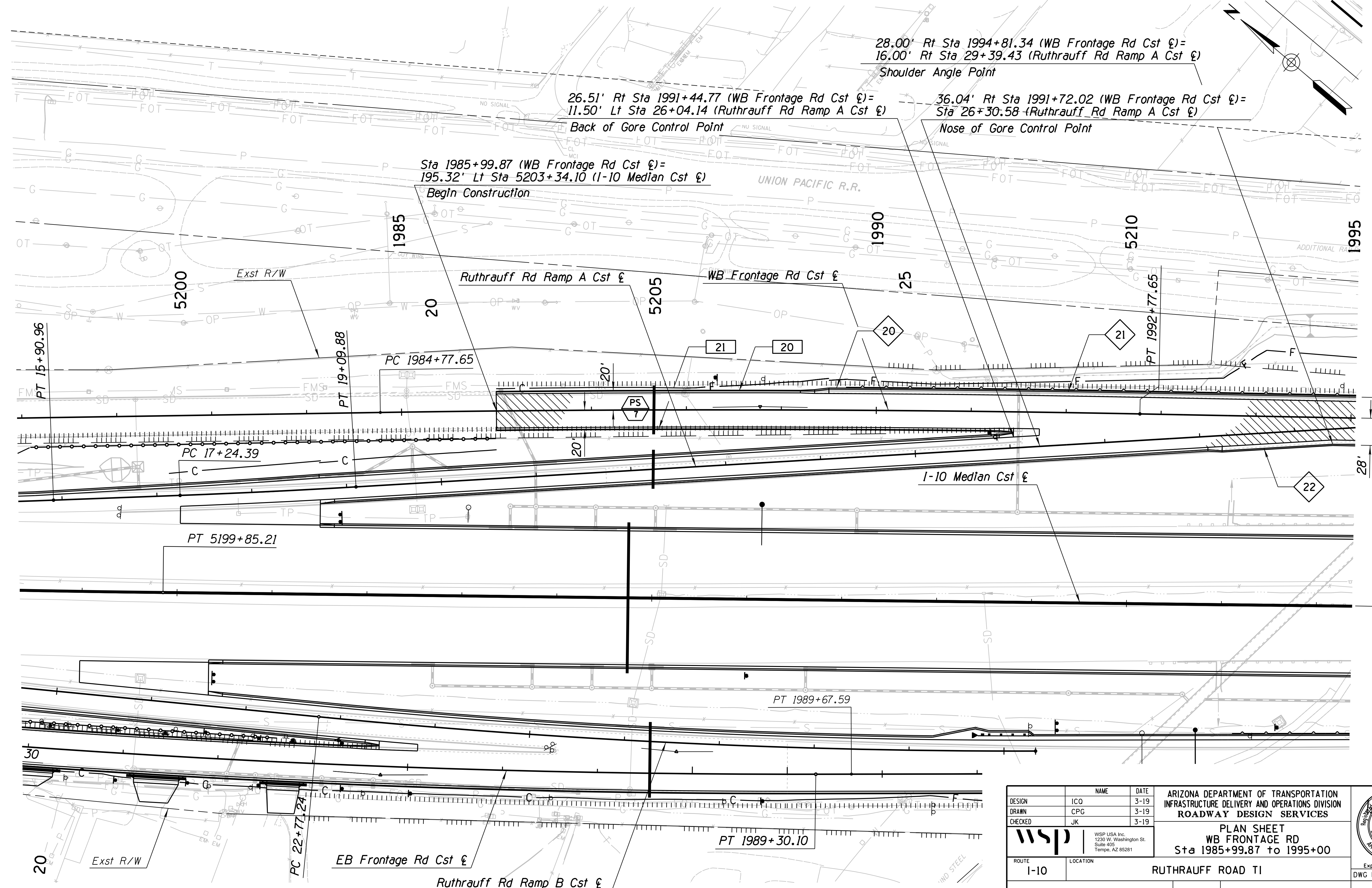


 Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		RUTHRAUFF RAMP D PROFILE SHEET Sta 19+56.18 to 22+78.66		Expires 9/30/2019 DWG NO. C-5.12	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	175	849	

010 PM 252

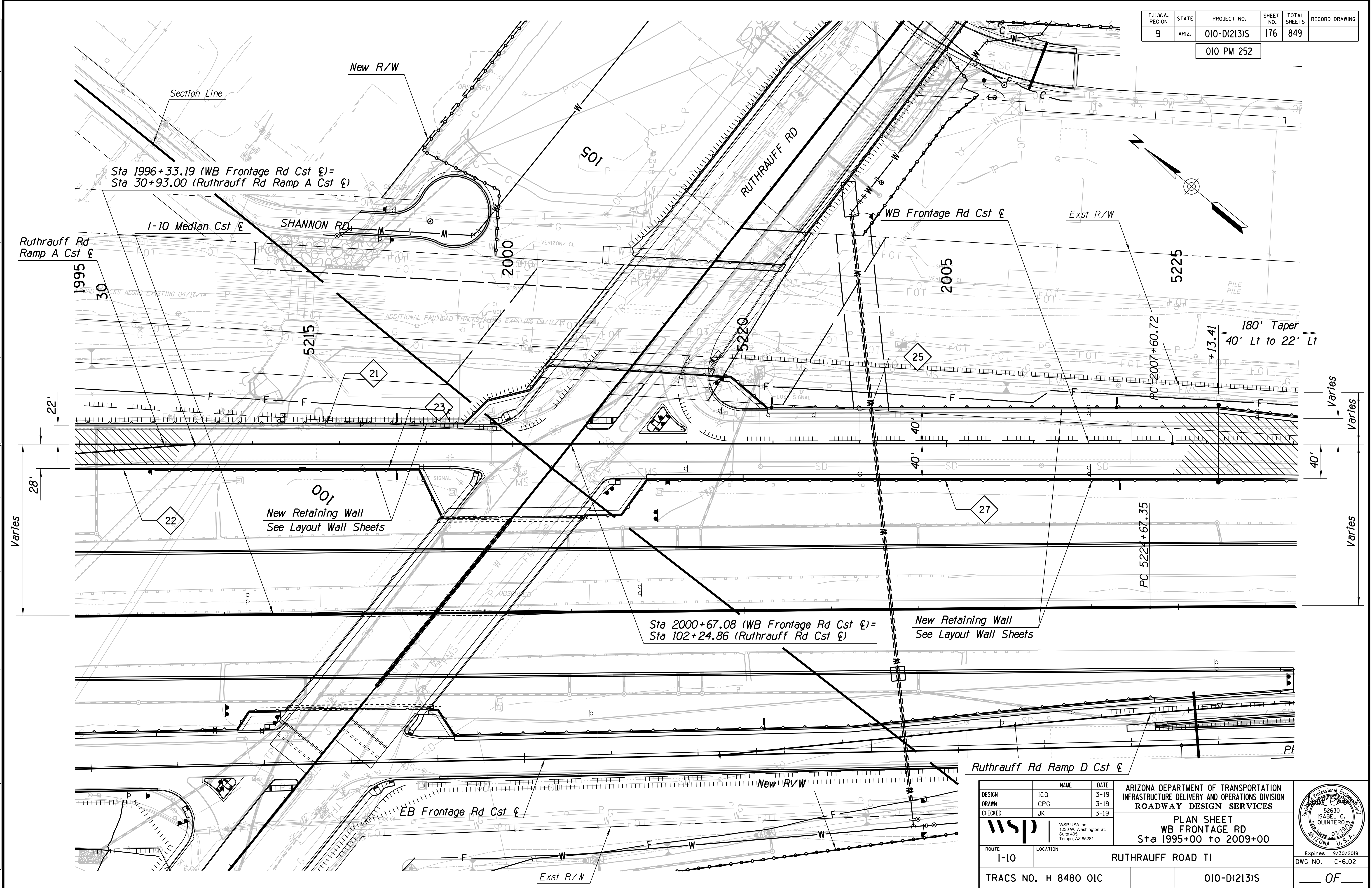


DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>PLAN SHEET</b> <b>WB FRONTAGE RD</b> <b>Sta 1985+99.87 to 1995+00</b>
DRAWN	ICO	3-19	
CHECKED	CPG	3-19	
WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281			
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. C-6.01
TRACS NO. H 8480 OIC		010-D(213)S	OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	176	849	

010 PM 252



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

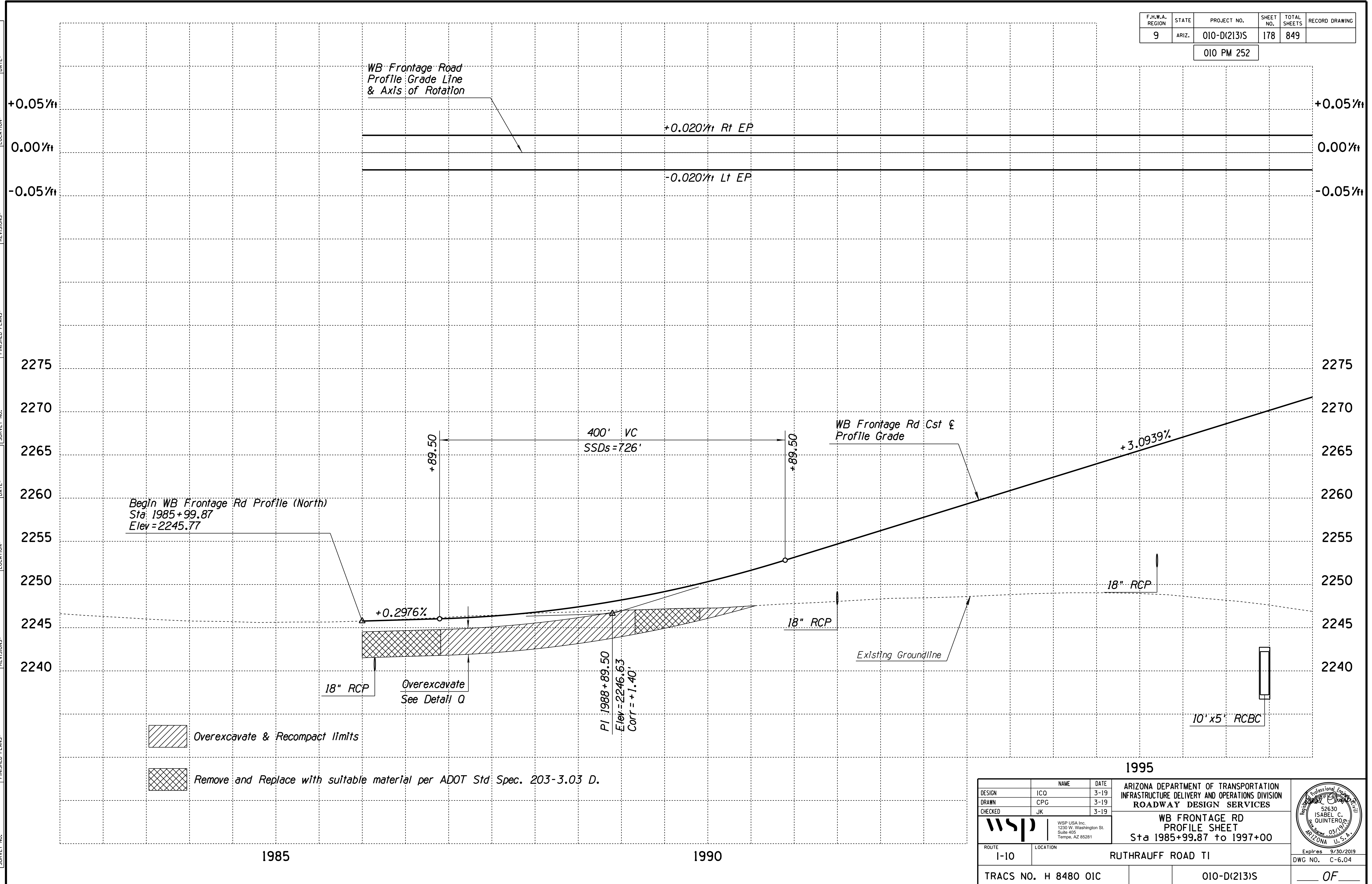
<table border="1"> <tr> <th>DESIGN</th> <td>ICO</td> <th>DATE</th> <td>3-19</td> </tr> <tr> <th>DRAWN</th> <td>CPG</td> <th>DATE</th> <td>3-19</td> </tr> <tr> <th>CHECKED</th> <td>JK</td> <th>DATE</th> <td>3-19</td> </tr> </table>		DESIGN	ICO	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DESIGN	ICO	DATE	3-19													
DRAWN	CPG	DATE	3-19													
CHECKED	JK	DATE	3-19													
		PLAN SHEET WB FRONTAGE RD Sta 1995+00 to 2009+00														
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	Expires	9/30/2019											
TRACS NO.	H 8480 OIC		010-D(213)S	DWG NO.	C-6.02											





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	178	849	

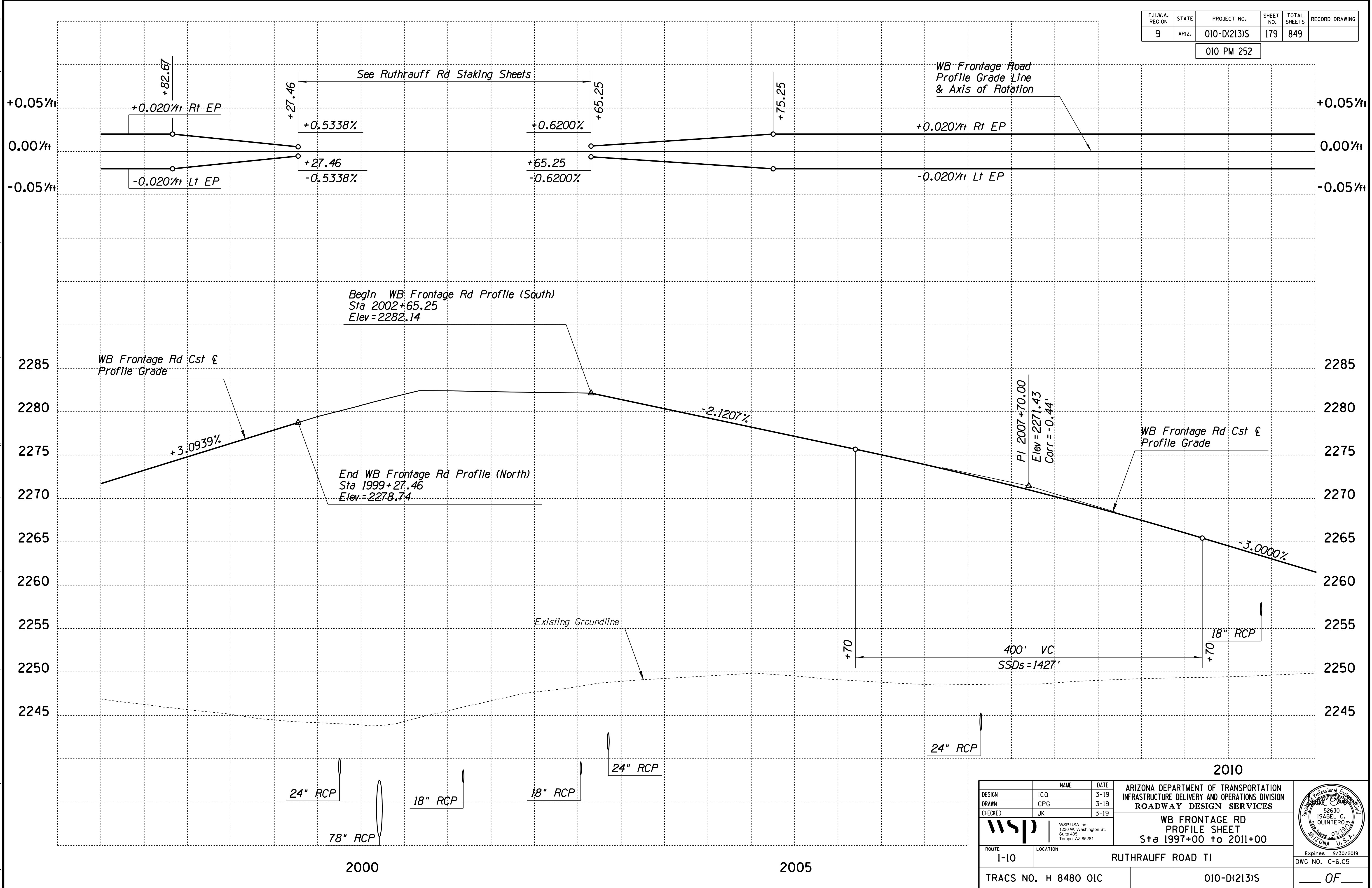
010 PM 252



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>WB FRONTAGE RD          PROFILE SHEET          Sta 1985+99.87 to 1997+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
ROUTE		LOCATION		Expires 9/30/2019 DWG NO. C-6.04	
1-10		RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	179	849	

010 PM 252

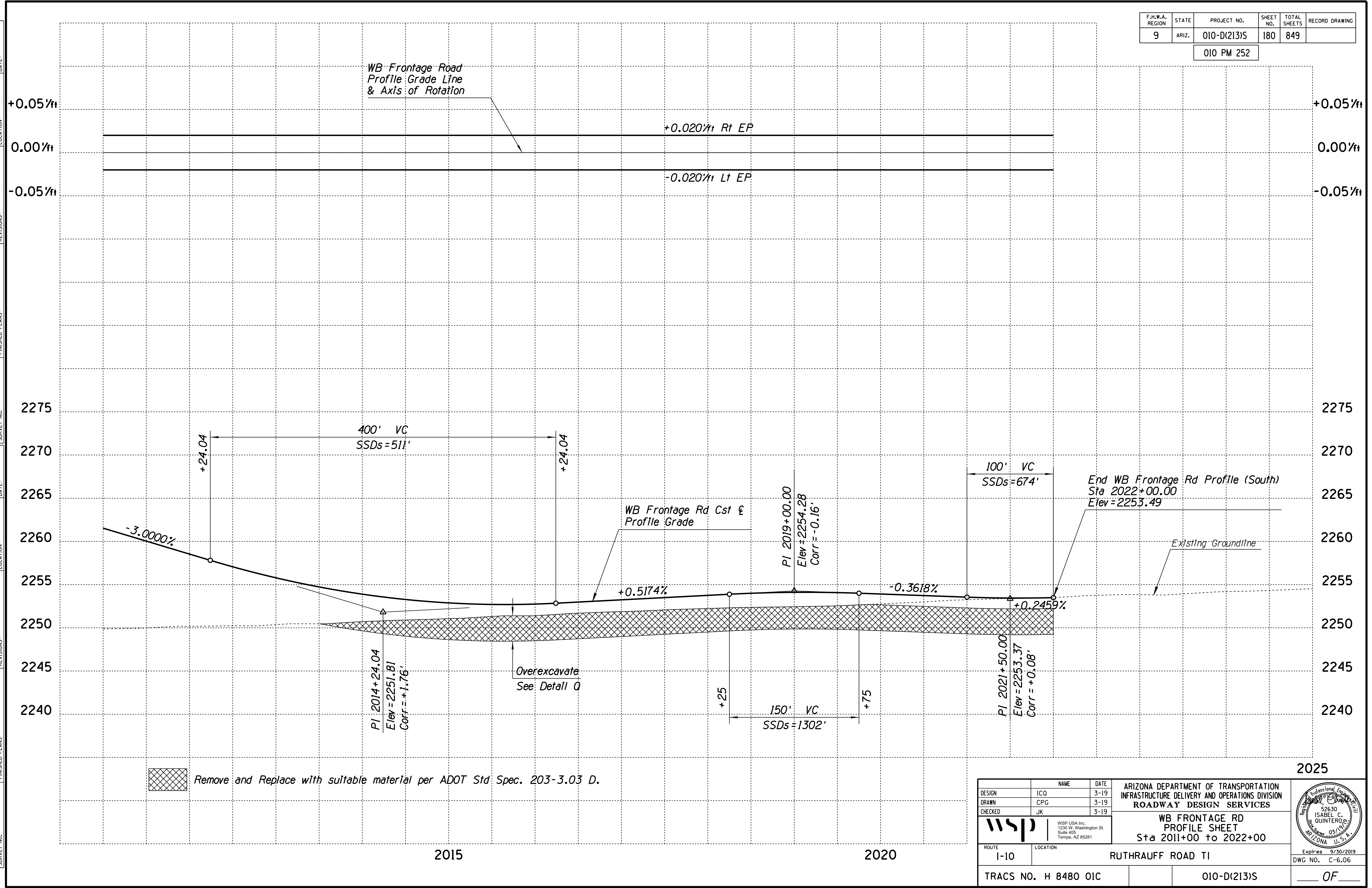


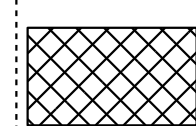
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		
ROUTE 1-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	180	849	

010 PM 252

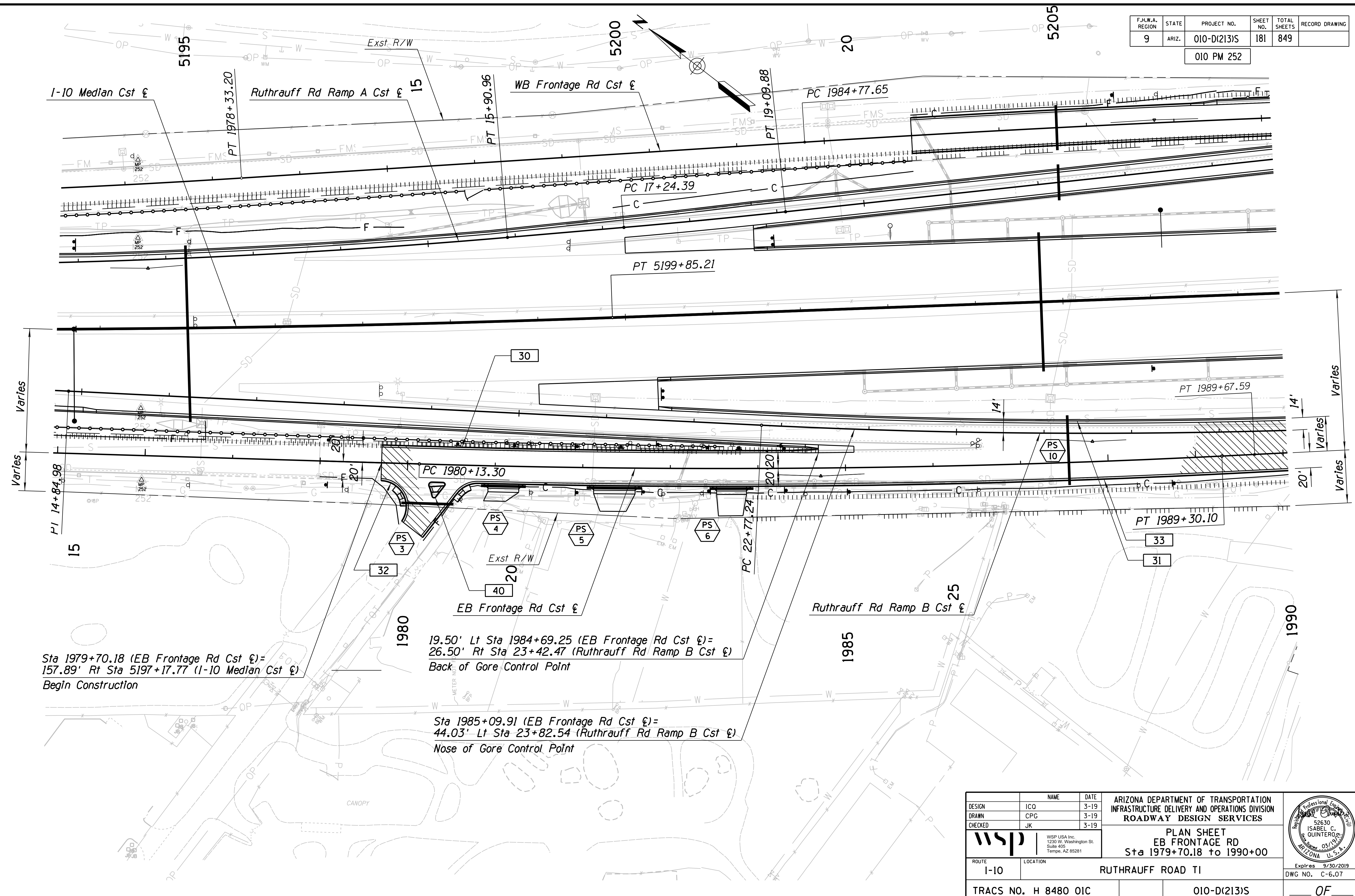


 Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JK	DATE	3-19	
 WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		WB FRONTAGE RD PROFILE SHEET Sta 2011+00 to 2022+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Exp. 9/30/2019 DWG NO. C-6.06

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	181	849	

010 PM 252



Sta 1979+70.18 (EB Frontage Rd Cst  $\epsilon$ ) =  
157.89' Rt Sta 5197+17.77 (I-10 Median Cst  $\epsilon$ )  
Begin Construction

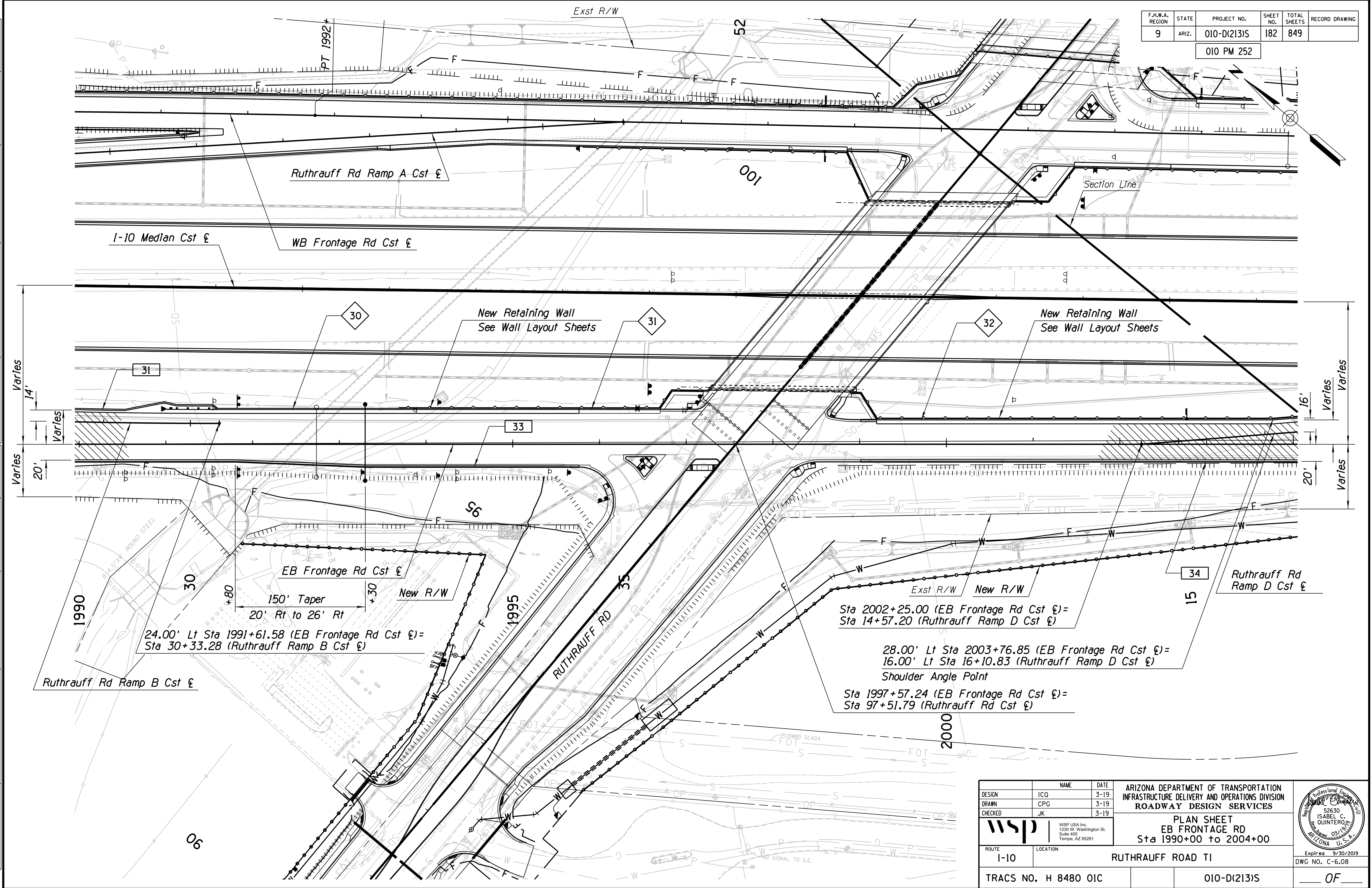
19.50' Lt Sta 1984+69.25 (EB Frontage Rd Cst  $\epsilon$ ) =  
26.50' Rt Sta 23+42.47 (Ruthrauff Rd Ramp B Cst  $\epsilon$ )  
Back of Gore Control Point

Sta 1985+09.91 (EB Frontage Rd Cst  $\epsilon$ ) =  
44.03' Lt Sta 23+82.54 (Ruthrauff Rd Ramp B Cst  $\epsilon$ )  
Nose of Gore Control Point

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JK	DATE	3-19			
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		PLAN SHEET EB FRONTAGE RD Sta 1979+70.18 to 1990+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			Expires 9/30/2019
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. C-6.07	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	182	849	

010 PM 252



24.00' Lt Sta 1991+61.58 (EB Frontage Rd Cst  $\epsilon$ ) =  
Sta 30+33.28 (Ruthrauff Ramp B Cst  $\epsilon$ )

Sta 2002+25.00 (EB Frontage Rd Cst  $\epsilon$ ) =  
Sta 14+57.20 (Ruthrauff Ramp D Cst  $\epsilon$ )

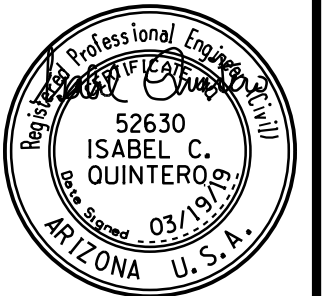
28.00' Lt Sta 2003+76.85 (EB Frontage Rd Cst  $\epsilon$ ) =  
16.00' Lt Sta 16+10.83 (Ruthrauff Ramp D Cst  $\epsilon$ )

Shoulder Angle Point  
Sta 1997+57.24 (EB Frontage Rd Cst  $\epsilon$ ) =  
Sta 97+51.79 (Ruthrauff Rd Cst  $\epsilon$ )

DESIGN	NAME	DATE
DRAWN	ICG	3-19
CHECKED	CPG	3-19
	JK	3-19

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

PLAN SHEET  
EB FRONTAGE RD  
Sta 1990+00 to 2004+00



ROUTE	LOCATION
I-10	RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC

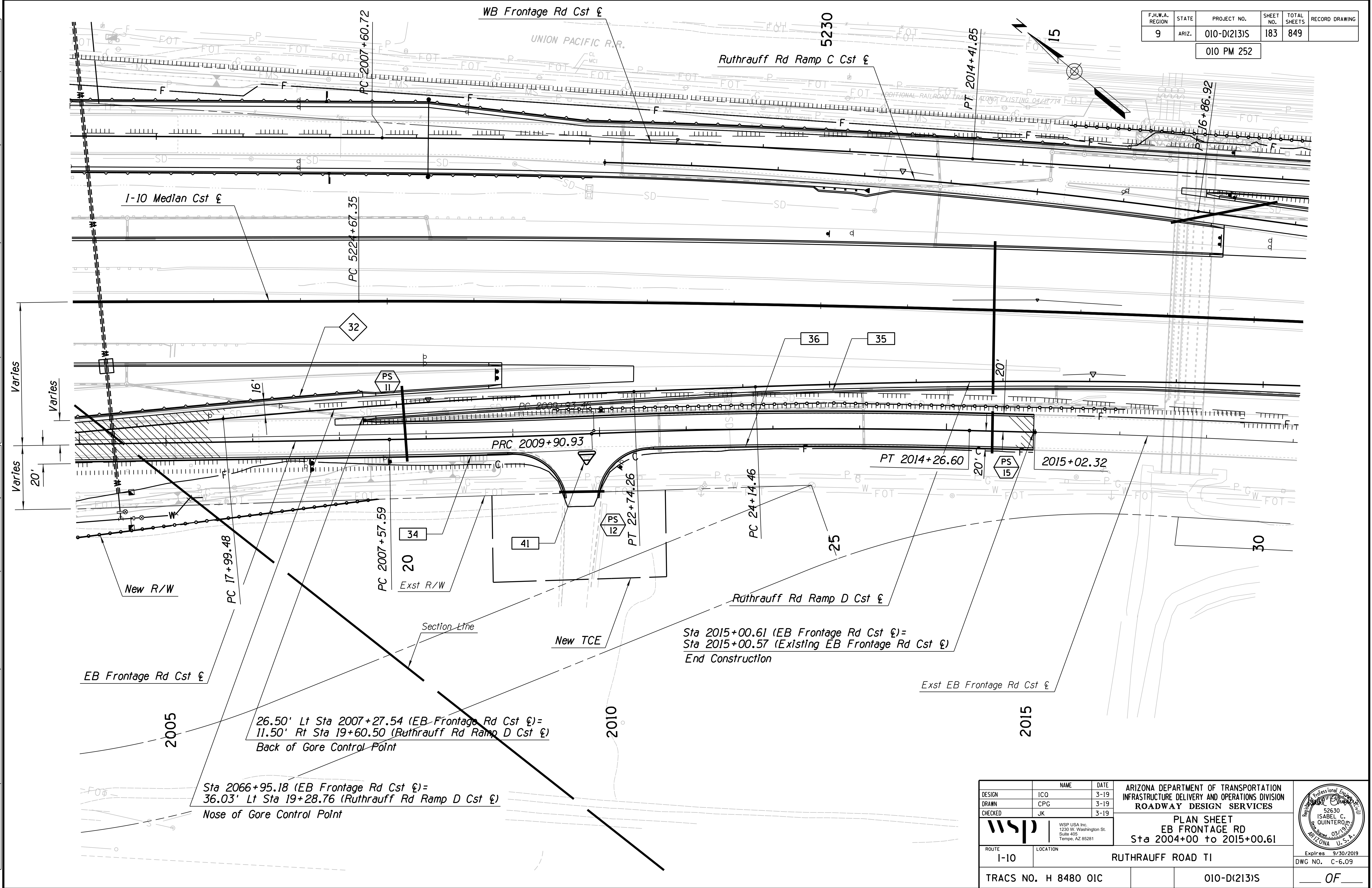
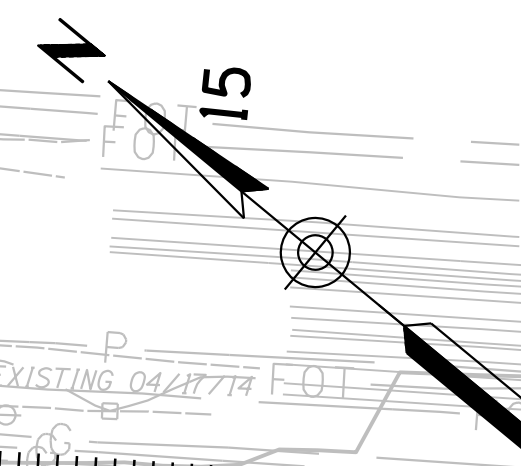
Expires 9/30/2019  
DWG NO. C-6.08

010-D(213)S

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	183	849	

010 PM 252



26.50' Lt Sta 2007+27.54 (EB Frontage Rd Cst) =  
11.50' Rt Sta 19+60.50 (Ruthrauff Rd Ramp D Cst)  
Back of Gore Control Point

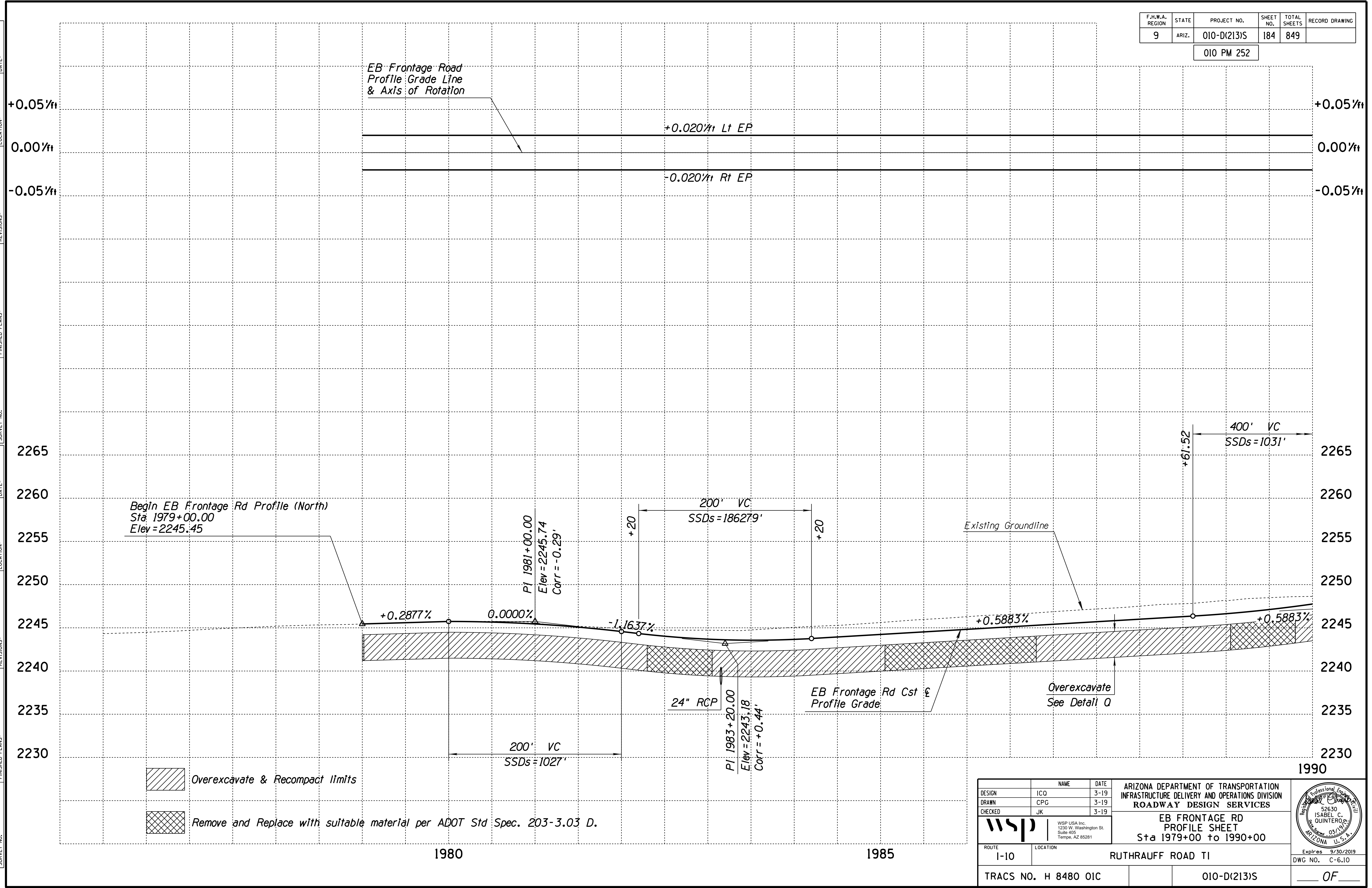
Sta 2066+95.18 (EB Frontage Rd Cst) =  
36.03' Lt Sta 19+28.76 (Ruthrauff Rd Ramp D Cst)  
Nose of Gore Control Point

Sta 2015+00.61 (EB Frontage Rd Cst) =  
Sta 2015+00.57 (Existing EB Frontage Rd Cst)  
End Construction

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		PLAN SHEET EB FRONTAGE RD Sta 2004+00 to 2015+00.61	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	184	849	

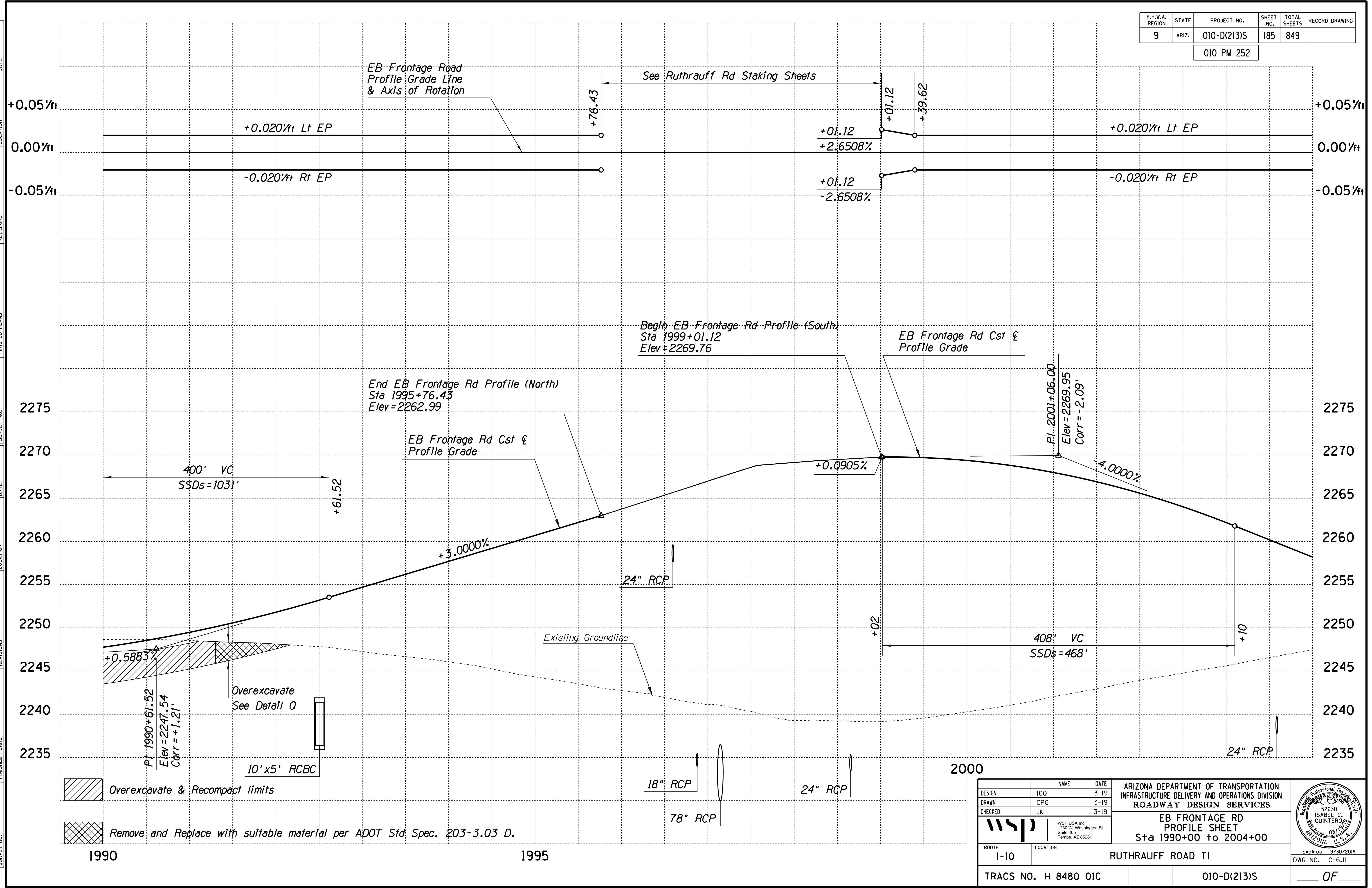
010 PM 252



DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>EB FRONTAGE RD          PROFILE SHEET</b> Sta 1979+00 to 1990+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-6.10

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	185	849	

010 PM 252

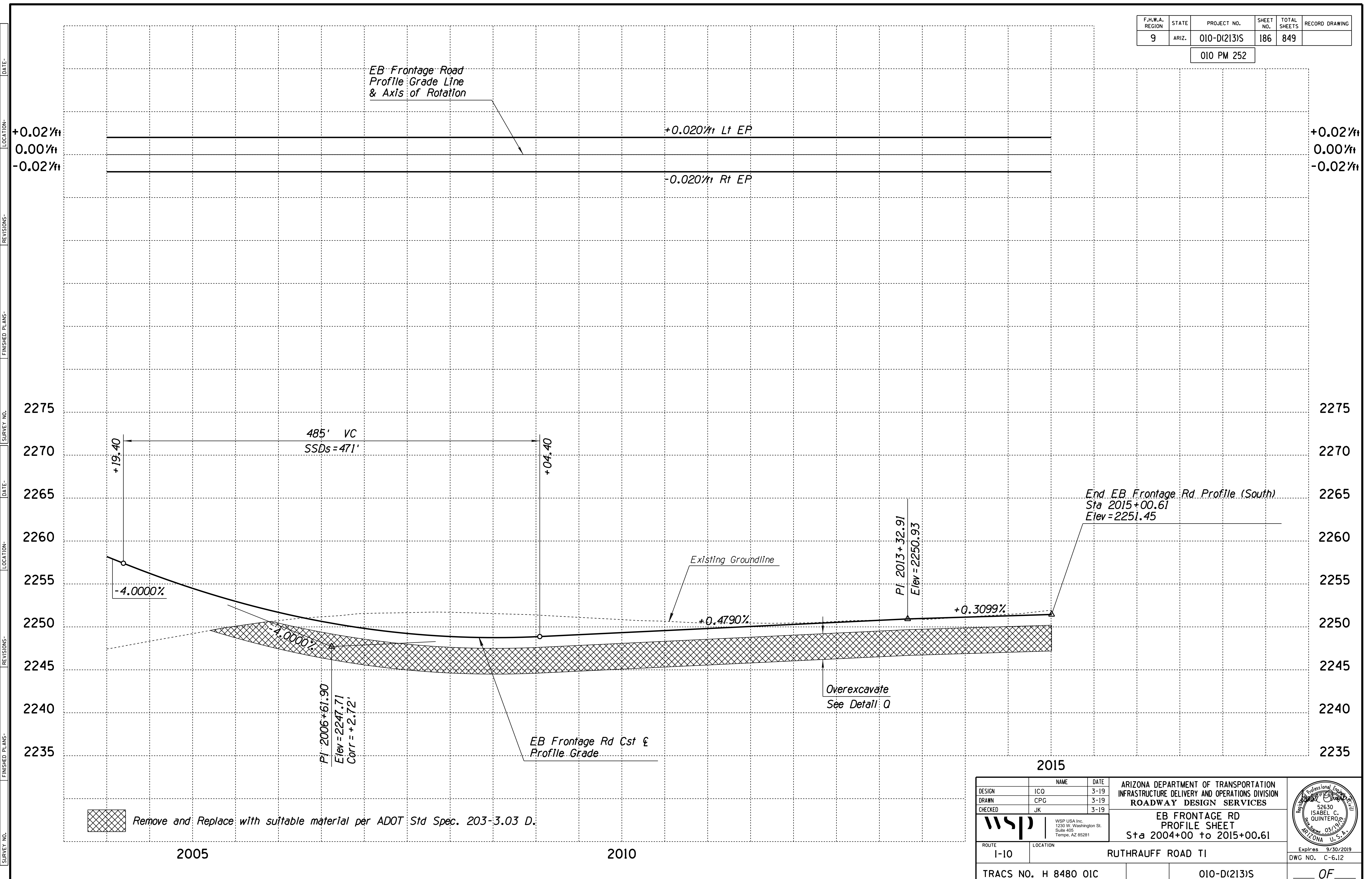


DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
<b>WSP</b> WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281				<b>EB FRONTAGE RD          PROFILE SHEET          Sta 1990+00 to 2004+00</b>	
ROUTE	LOCATION		Expires 9/30/2019 DWG NO. C-6.11		
1-10		RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	186	849	

010 PM 252



EB Frontage Road  
Profile: Grade Line  
& Axis of Rotation

+0.020%/ft Lt EP

-0.020%/ft Rt EP

485' VC  
SSDs = 471'

+19.40

+04.40

End EB Frontage Rd Profile (South)  
Sta 2015+00.61  
Elev = 2251.45

Existing Groundline

-4.0000%

-4.0000%

+0.4790%

+0.3099%

PI 2006+61.90  
Elev = 2247.71  
Corr = +2.72'

PI 2013+32.91  
Elev = 2250.93

Overexcavate  
See Detail Q

EB Frontage Rd Cst &  
Profile Grade

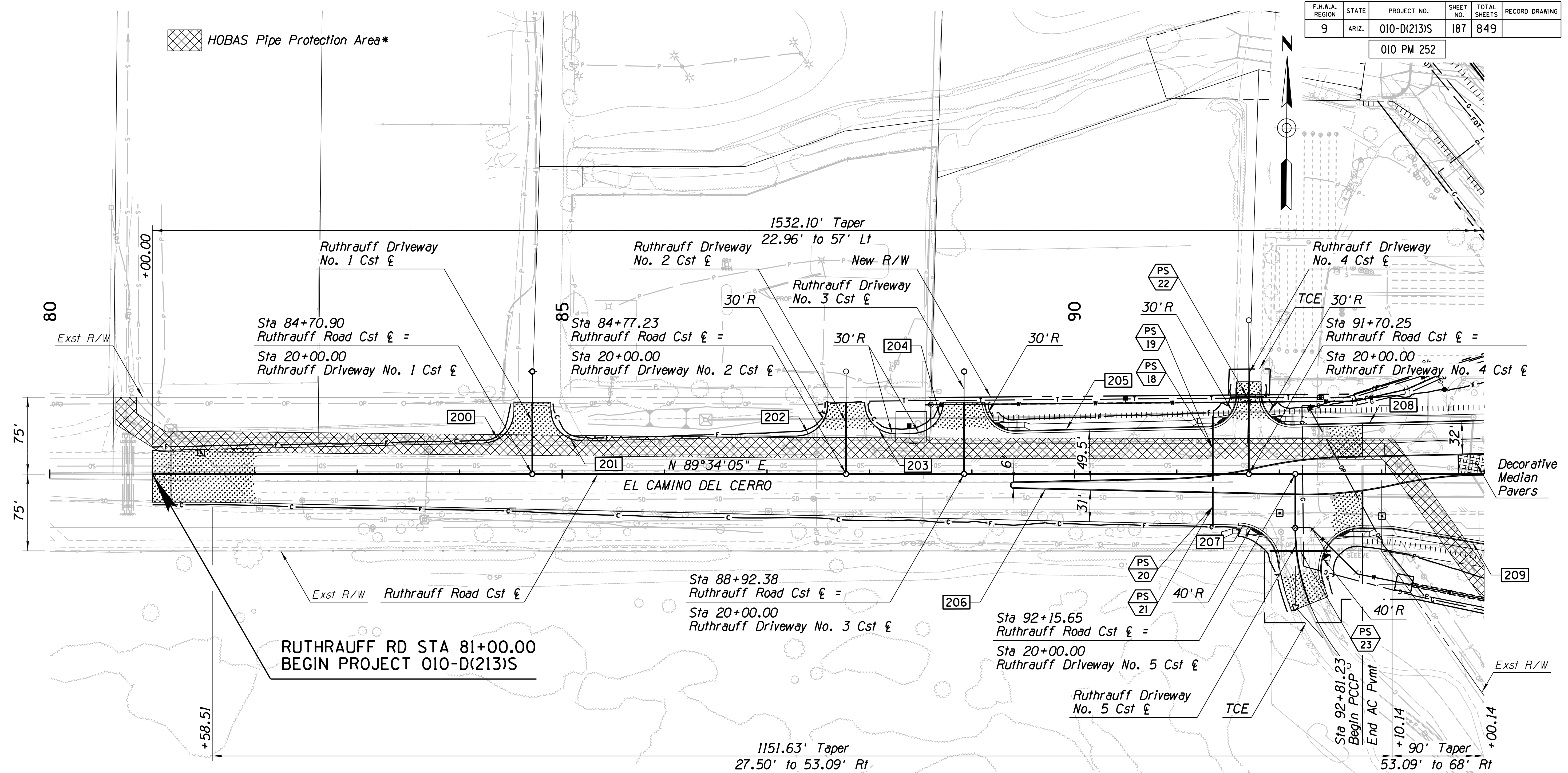
Remove and Replace with suitable material per ADOT Std Spec. 203-3.03 D.

2015

DESIGN	ICO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JK	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		EB FRONTAGE RD PROFILE SHEET Sta 2004+00 to 2015+00.61	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	187	849	

010 PM 252



RUTHRAUFF RD STA 81+00.00  
BEGIN PROJECT 010-D(213)S

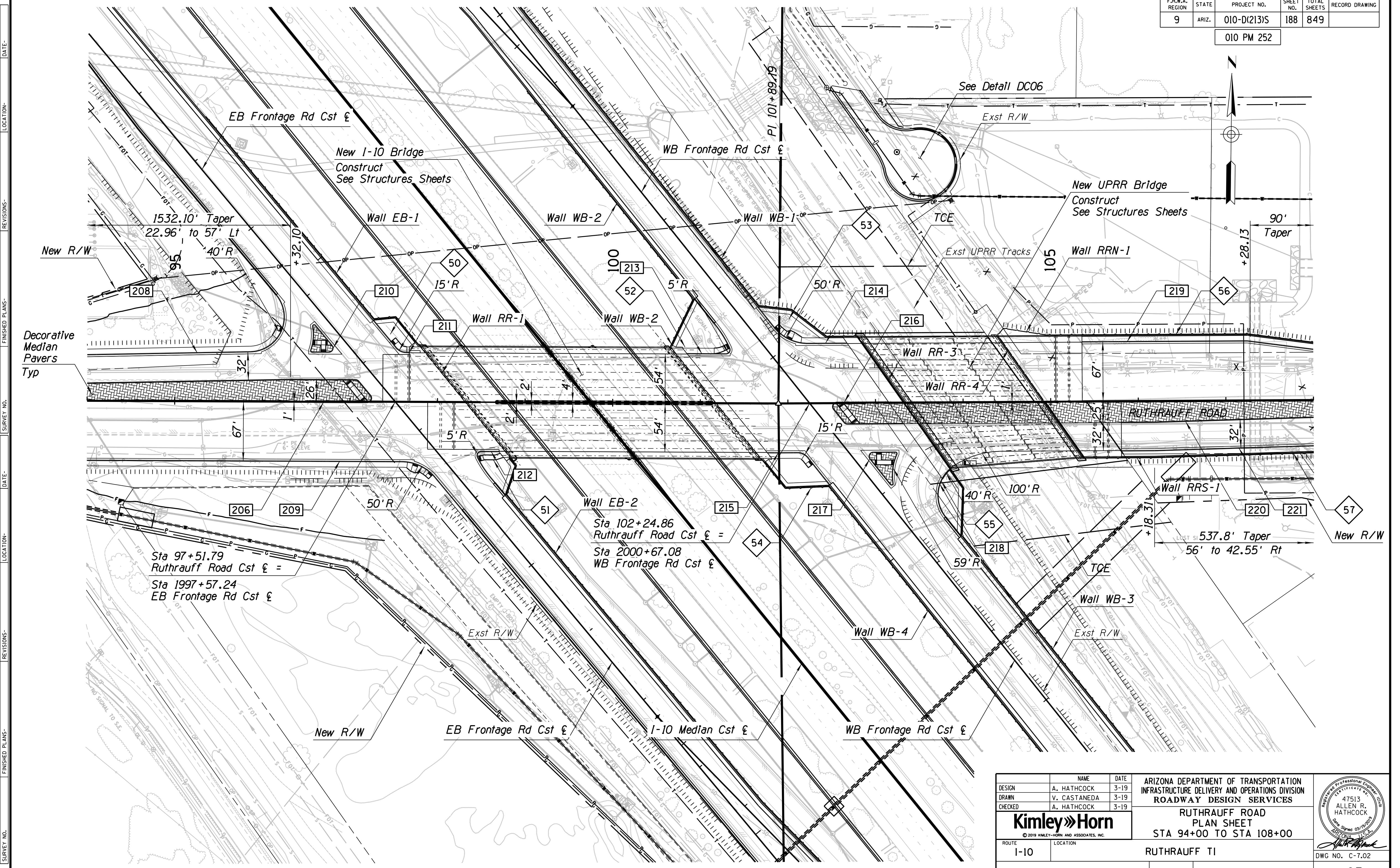
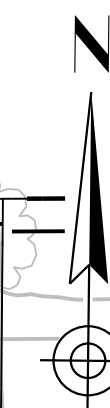
**NOTE:** The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction  $\xi$  has been designated as Ruthrauff Road Cst  $\xi$  for entire length.

\* Contractor shall protect the existing HOBAS pipe in place. Live Loads exceeding HL-93 loading, including heavy hauls, crane pad placement, etc., are not acceptable within 10 feet either side of the existing HOBAS pipe (as measured from the pipe centerline). Only non-vibratory compaction methods shall be used within the HOBAS pipe protection area. Excavation depths shall not exceed 2 feet within the Protection Area without approval by the Engineer. Roadway Overexcavation per Detail Q shall not be performed within the Protection Area. Stockpiling, placement of spoils and/or material is not acceptable within the Protection Area. See the General Requirements section of the Special Provisions for additional information.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	A. HATHCOCK	3-19		
CHECKED	V. CASTANEDA	3-19		
			<b>RUTHRAUFF ROAD PLAN SHEET STA 81+00 TO STA 94+00</b>	
ROUTE	LOCATION			
TRACS NO. H8480 OIC			010-D(213)S	DWG NO. C-7.01

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	188	849	

010 PM 252



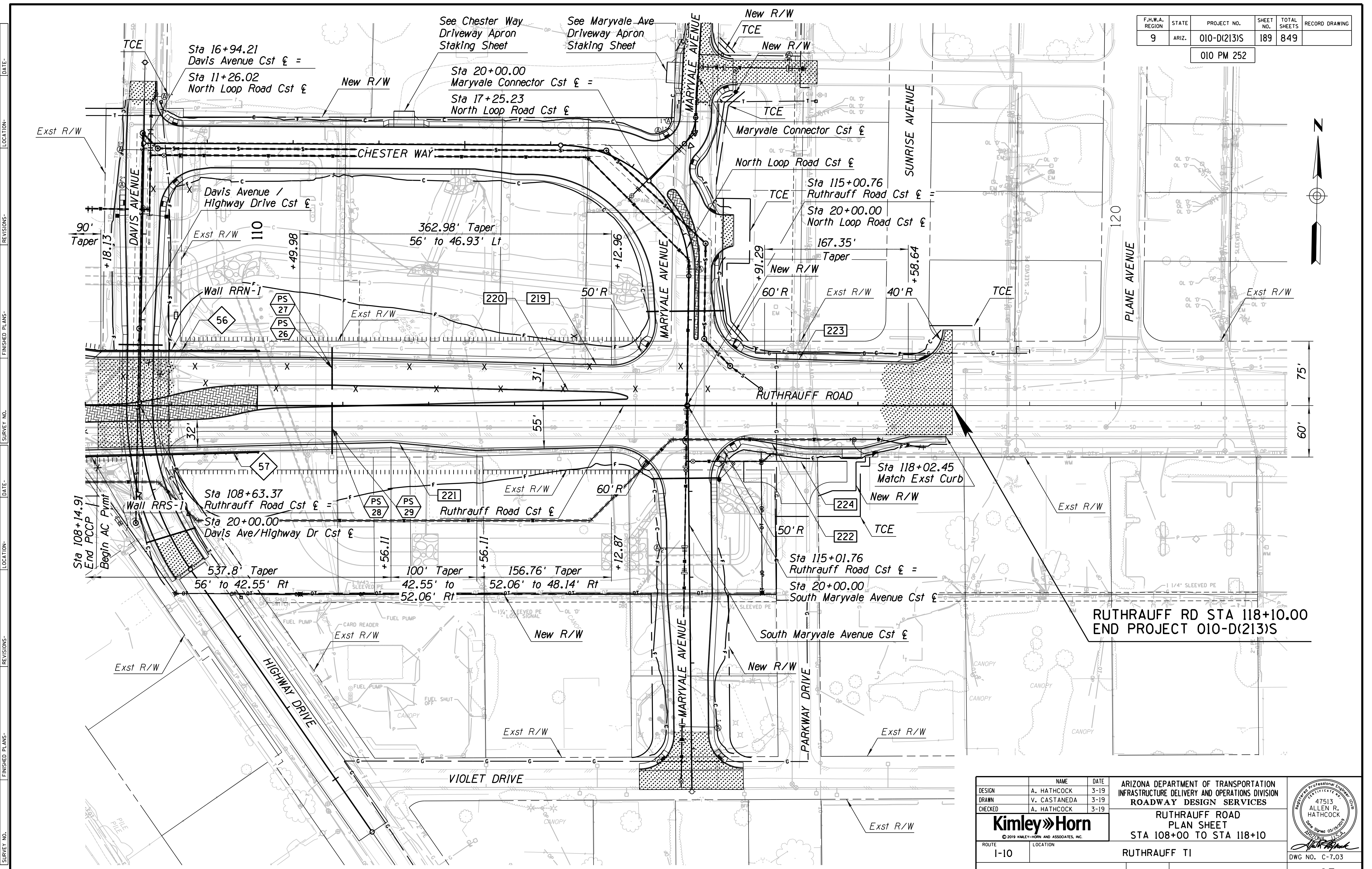
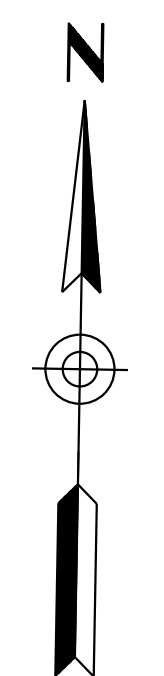
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>PLAN SHEET</b> <b>STA 94+00 TO STA 108+00</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		ROUTE: I-10 LOCATION: RUTHRAUFF TI		DWG NO. C-7.02	
TRACS NO. H8480 OIC			010-D(213)S		

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	189	849	

010 PM 252

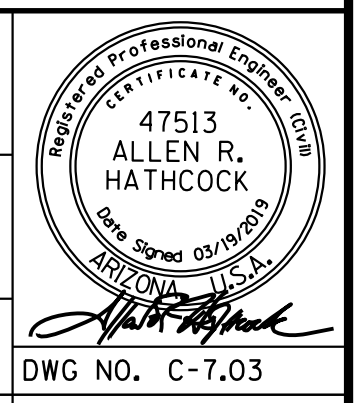


**RUTHRAUFF RD STA 118+10.00  
END PROJECT 010-D(213)S**

DESIGN	NAME	DATE
DESIGN	A. HATHCOCK	3-19
DRAWN	V. CASTANEDA	3-19
CHECKED	A. HATHCOCK	3-19

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

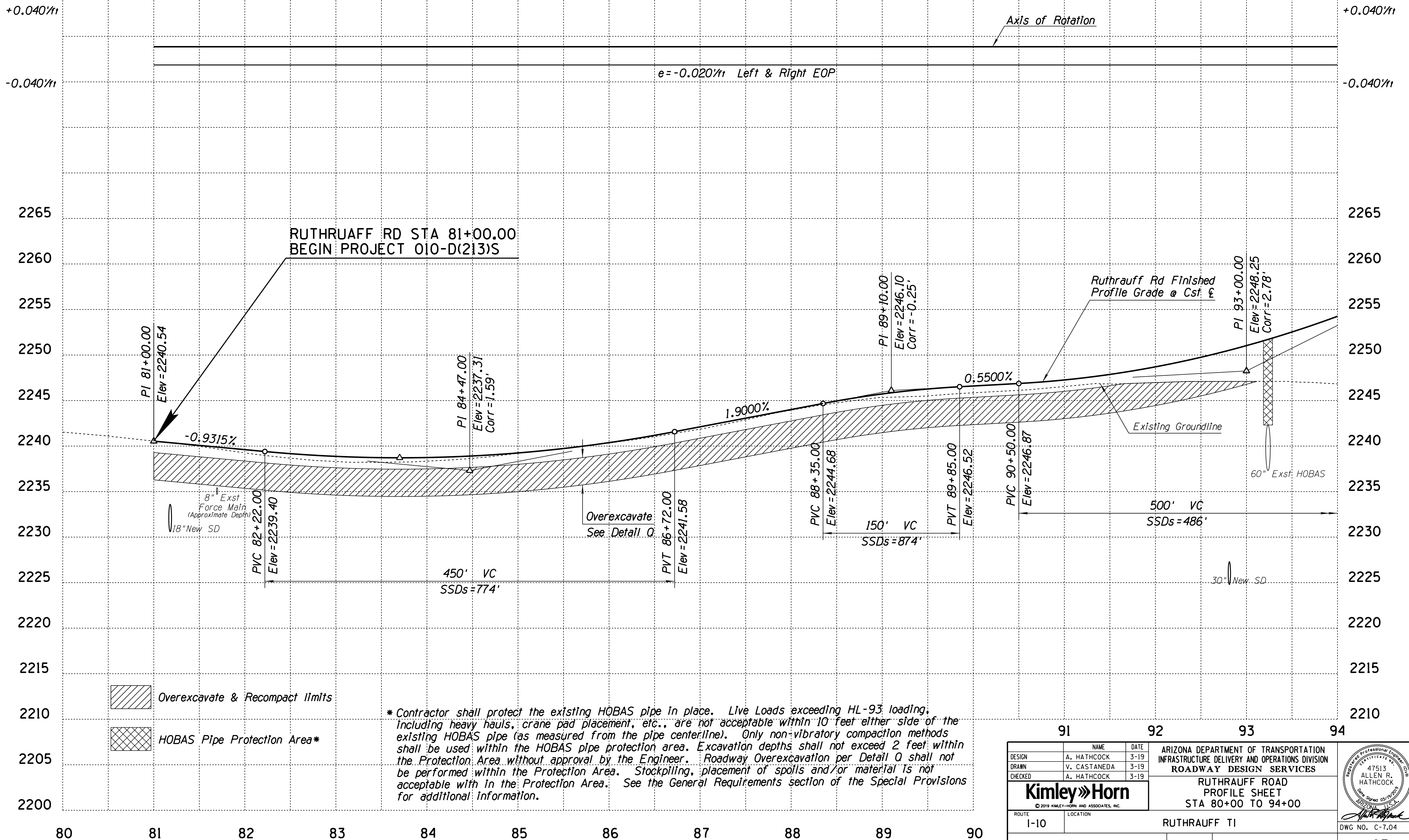
**RUTHRAUFF ROAD  
PLAN SHEET  
STA 108+00 TO STA 118+10**



ROUTE	LOCATION	TRACS NO.	PROJECT NO.
I-10	RUTHRAUFF TI	H8480 OIC	010-D(213)S

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	190	849	

010 PM 252



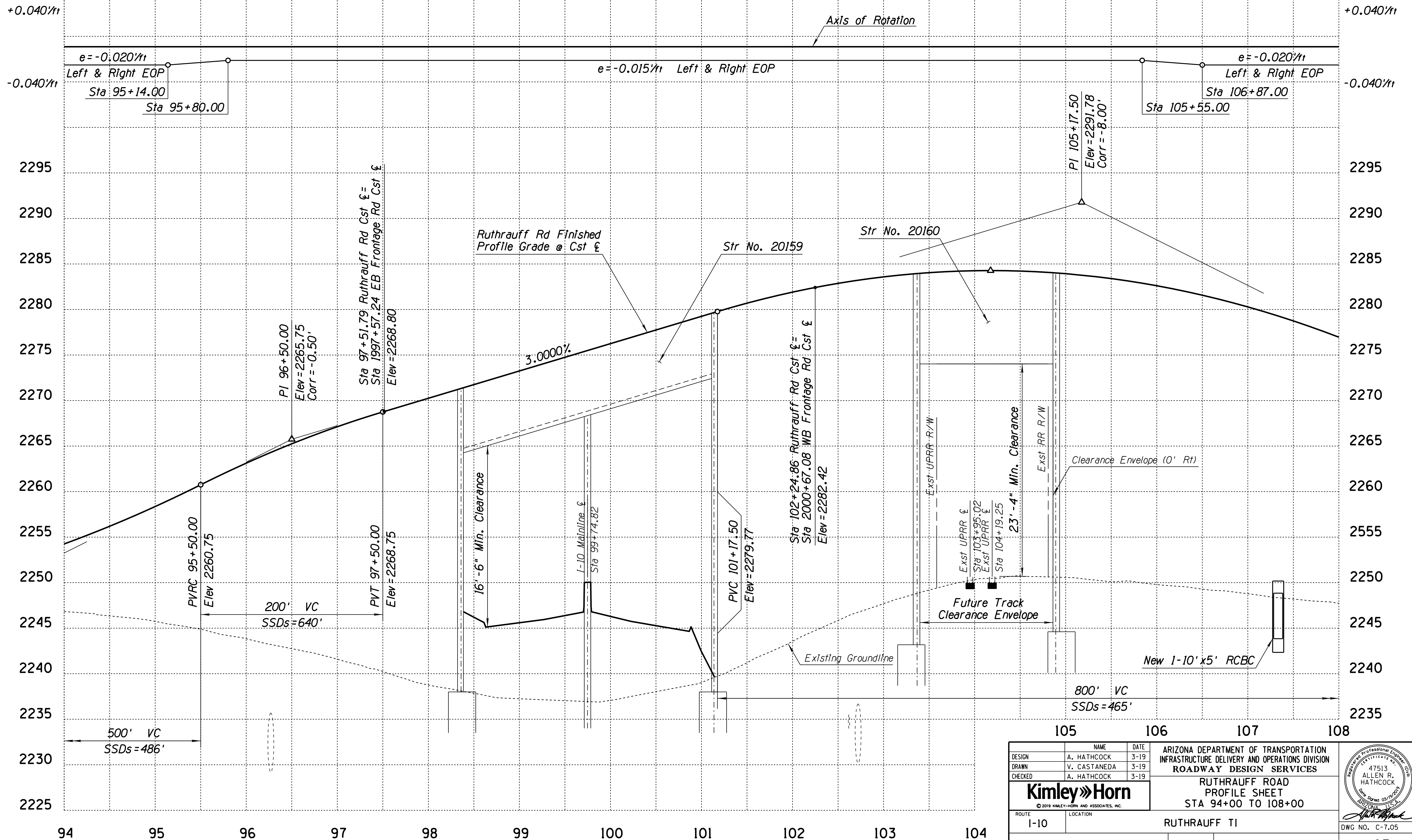
Overexcavate & Recompact Limits  
 HOBAS Pipe Protection Area\*

\* Contractor shall protect the existing HOBAS pipe in place. Live Loads exceeding HL-93 loading, including heavy hauls, crane pad placement, etc., are not acceptable within 10 feet either side of the existing HOBAS pipe (as measured from the pipe centerline). Only non-vibratory compaction methods shall be used within the HOBAS pipe protection area. Excavation depths shall not exceed 2 feet within the Protection Area without approval by the Engineer. Roadway Overexcavation per Detail Q shall not be performed within the Protection Area. Stockpiling, placement of spoils and/or material is not acceptable within the Protection Area. See the General Requirements section of the Special Provisions for additional information.

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>PROFILE SHEET</b> <b>STA 80+00 TO 94+00</b>	 DWG NO. C-7.04
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				ROUTE: 1-10      LOCATION: RUTHRAUFF TI TRACS NO. H8480 OIC      010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	191	849	

010 PM 252



DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19

**Kimley-Horn**  
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

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

**RUTHRAUFF ROAD  
PROFILE SHEET  
STA 94+00 TO 108+00**

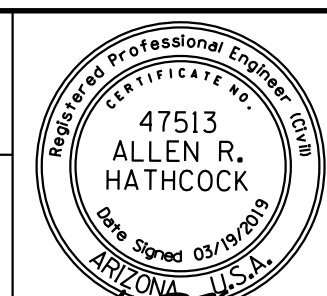
ROUTE 1-10 LOCATION RUTHRAUFF TI

TRACS NO. H8480 OIC

010-D(213)S

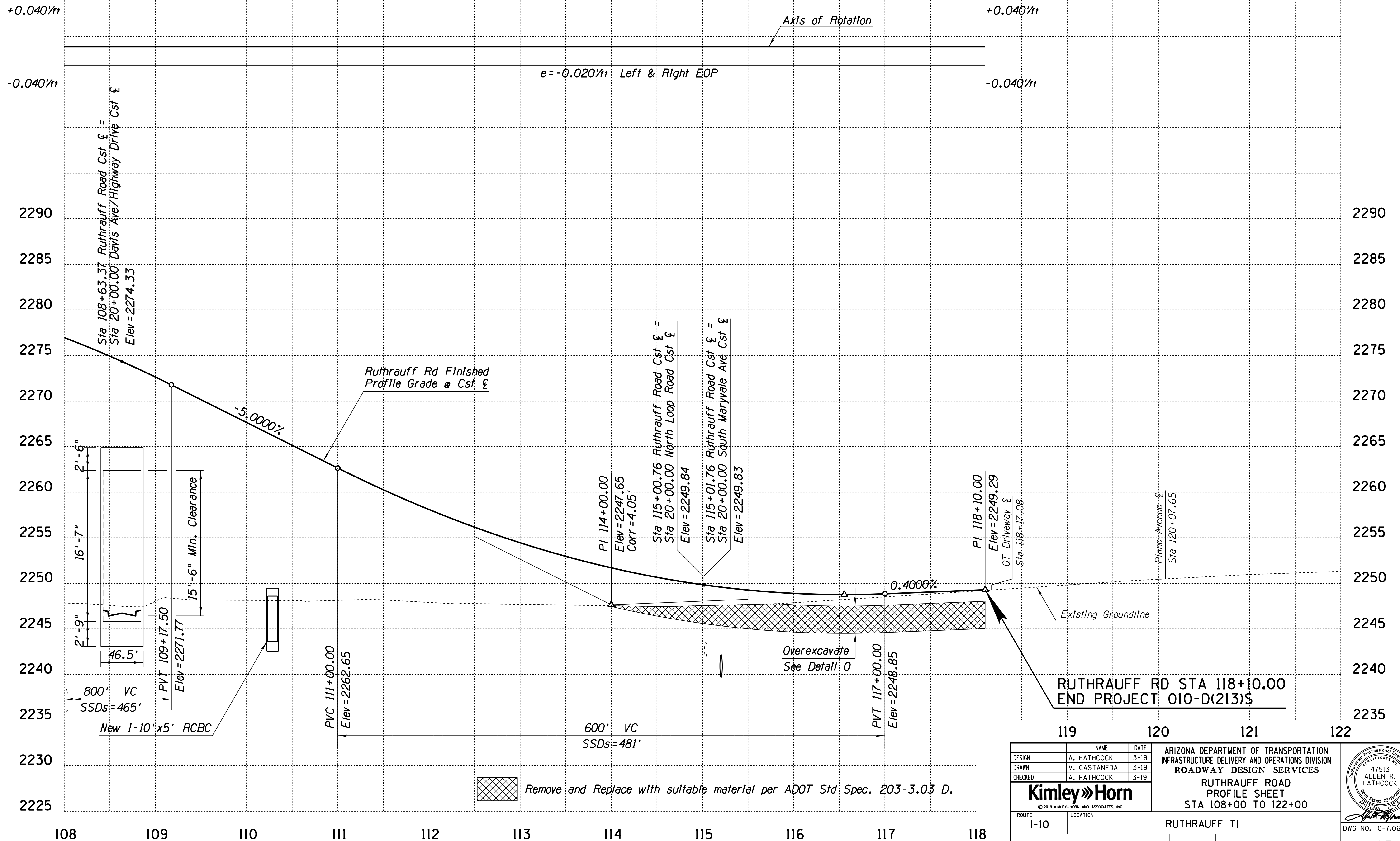
DWG NO. C-7.05

OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	192	849	

010 PM 252



RUTHRAUFF RD STA 118+10.00  
END PROJECT 010-D(213)S

DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19

**Kimley»Horn**  
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

ROUTE 1-10 LOCATION RUTHRAUFF TI

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

RUTHRAUFF ROAD  
PROFILE SHEET  
STA 108+00 TO 122+00

47513  
ALLEN R.  
HATHCOCK  
Professional Engineer  
No. 03/01/2019  
AZ/01/01/2019

DWG NO. C-7.06

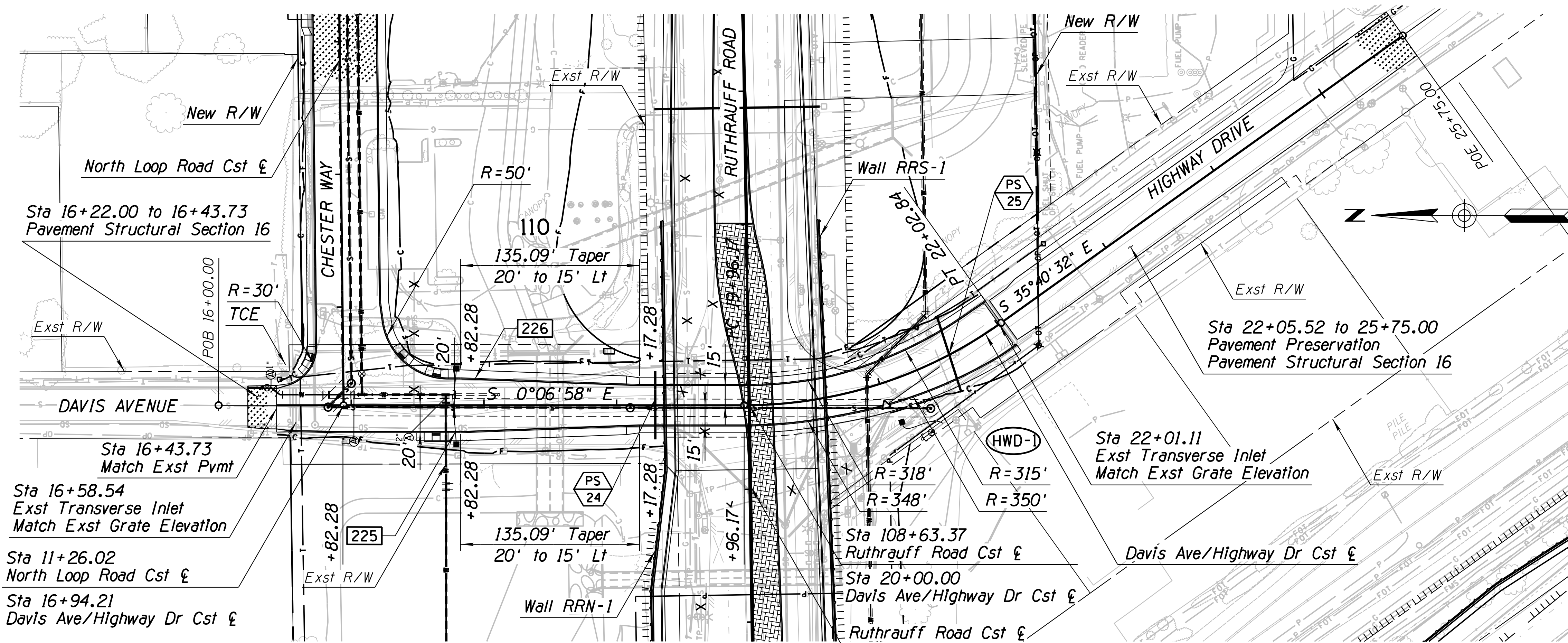
TRACS NO. H8480 OIC

010-D(213)S

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	193	849	

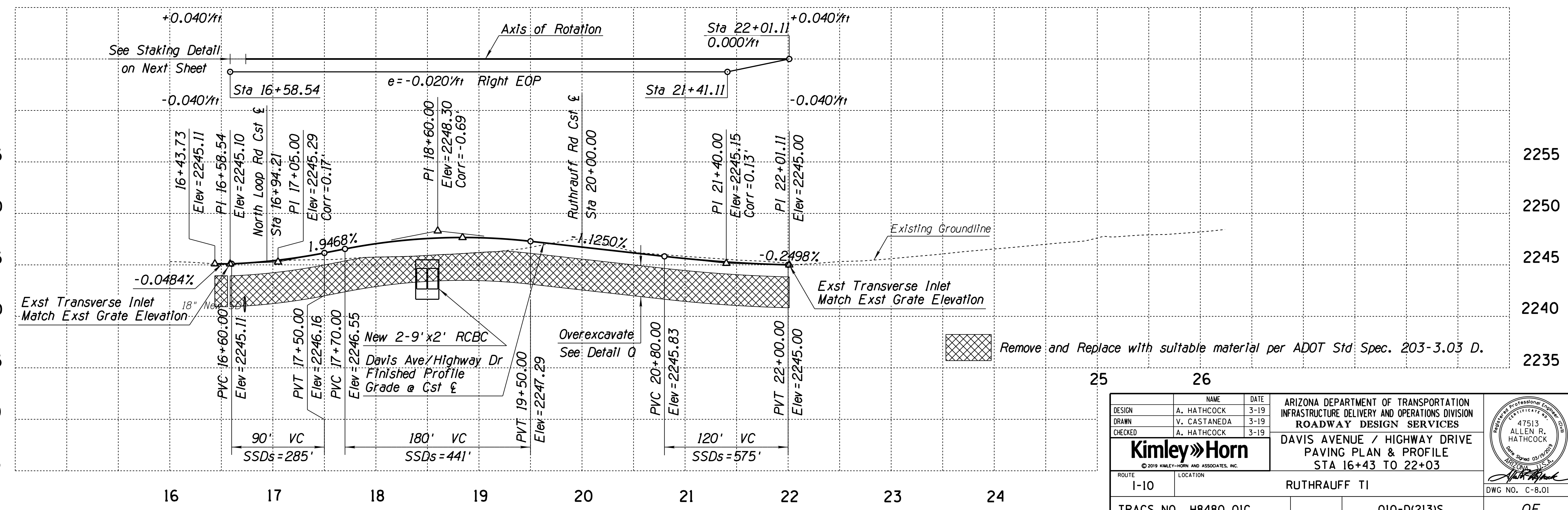
010 PM 252



**(HWD-1) CURVE DATA**

PI Sta 21+02.95  
 N 471887.516  
 E 975082.252

Main Curve  
 $\Delta = 35^\circ 33' 34''$  Lt  
 D = 17°12'21"  
 R = 333.00'  
 L = 206.67'  
 T = 106.78'  
 Ext = 16.70'



DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19

**Kimley»Horn**  
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.

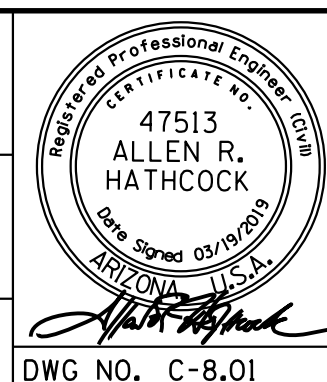
ARIZONA DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
 ROADWAY DESIGN SERVICES

DAVIS AVENUE / HIGHWAY DRIVE  
 PAVING PLAN & PROFILE  
 STA 16+43 TO 22+03

ROUTE: I-10 LOCATION: RUTHRAUFF TI

TRACS NO. H8480 OIC DWG NO. C-8.01

010-D(213)S OF





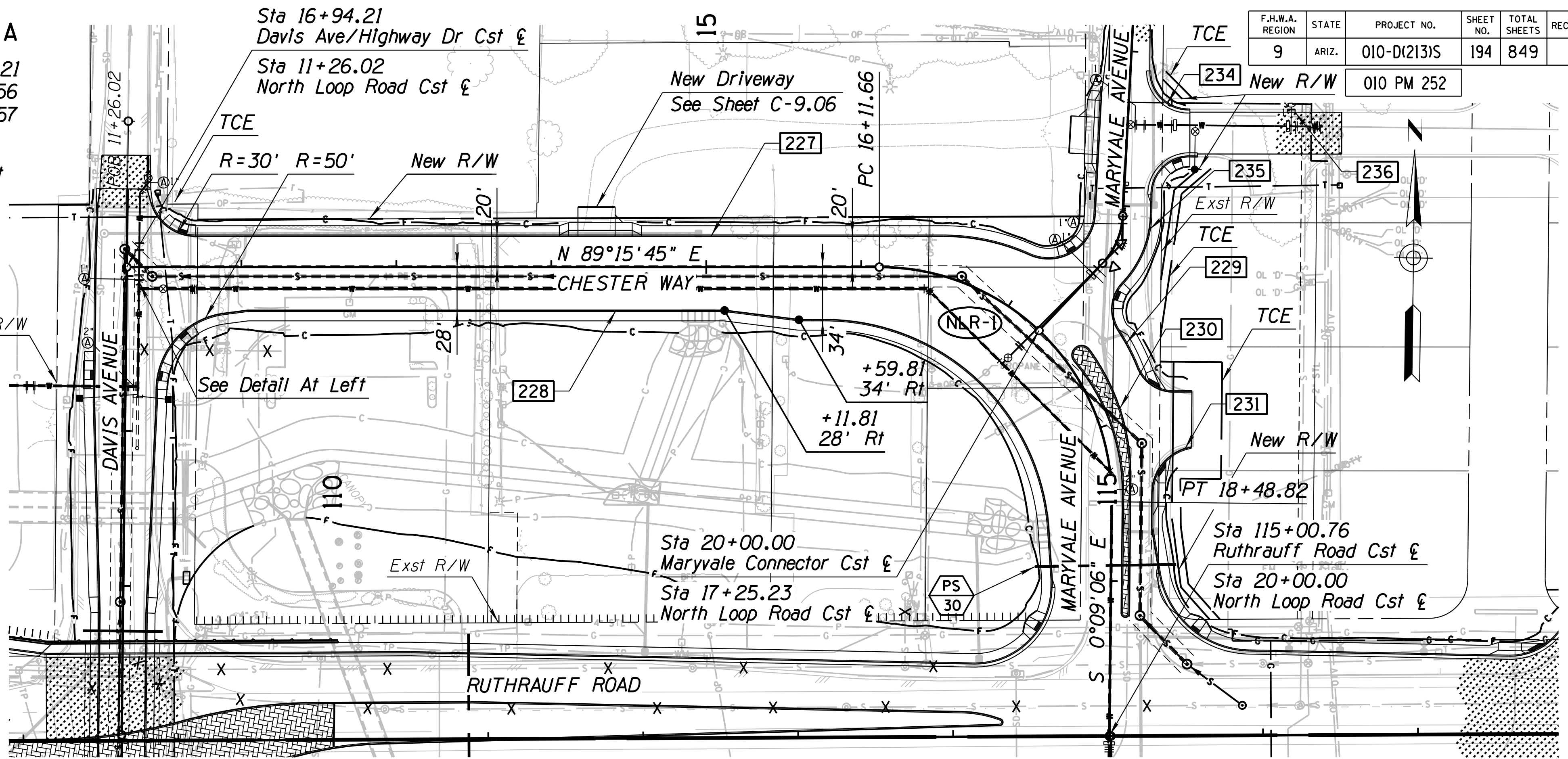
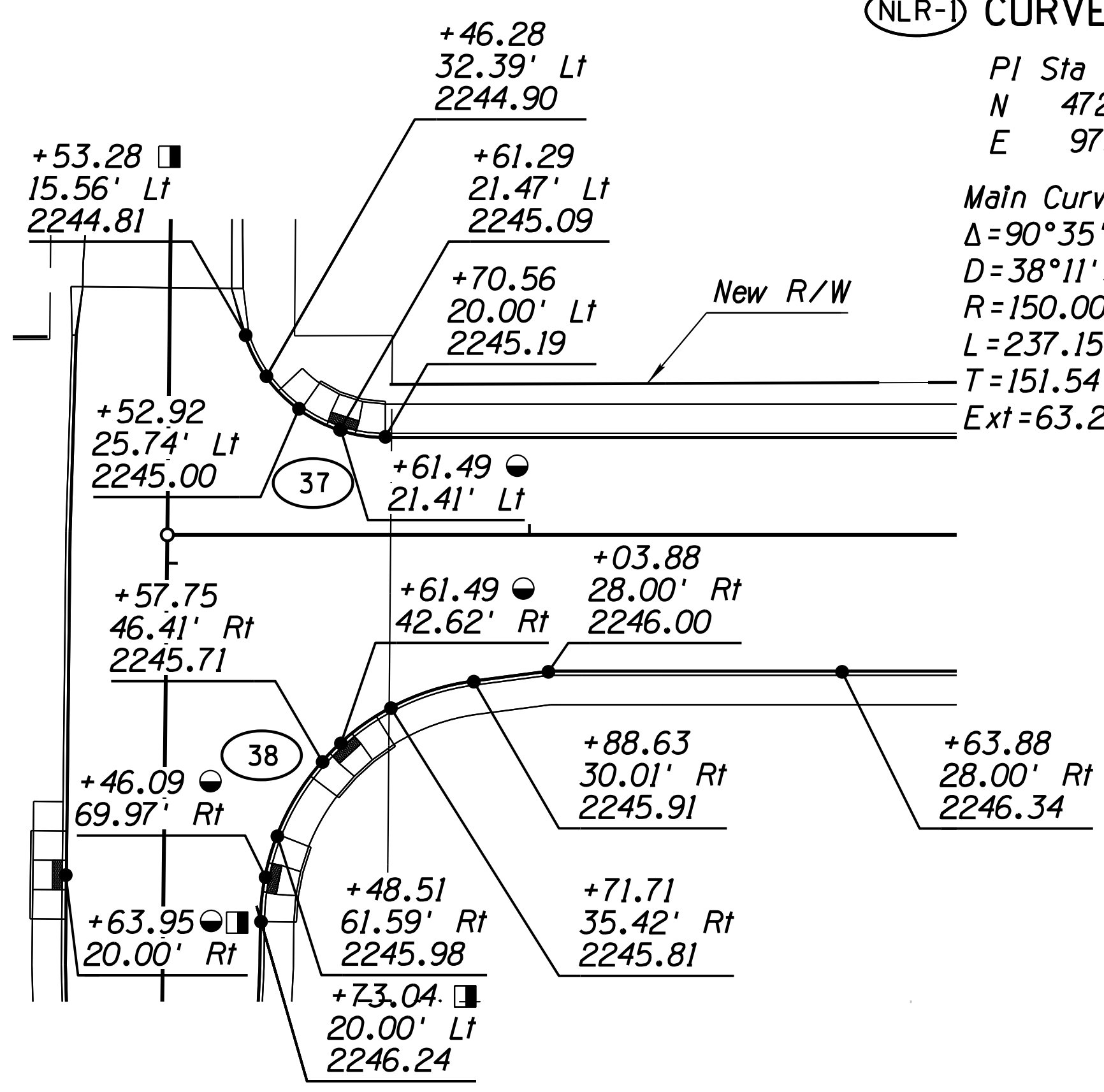
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	194	849	

**(NLR-1) CURVE DATA**

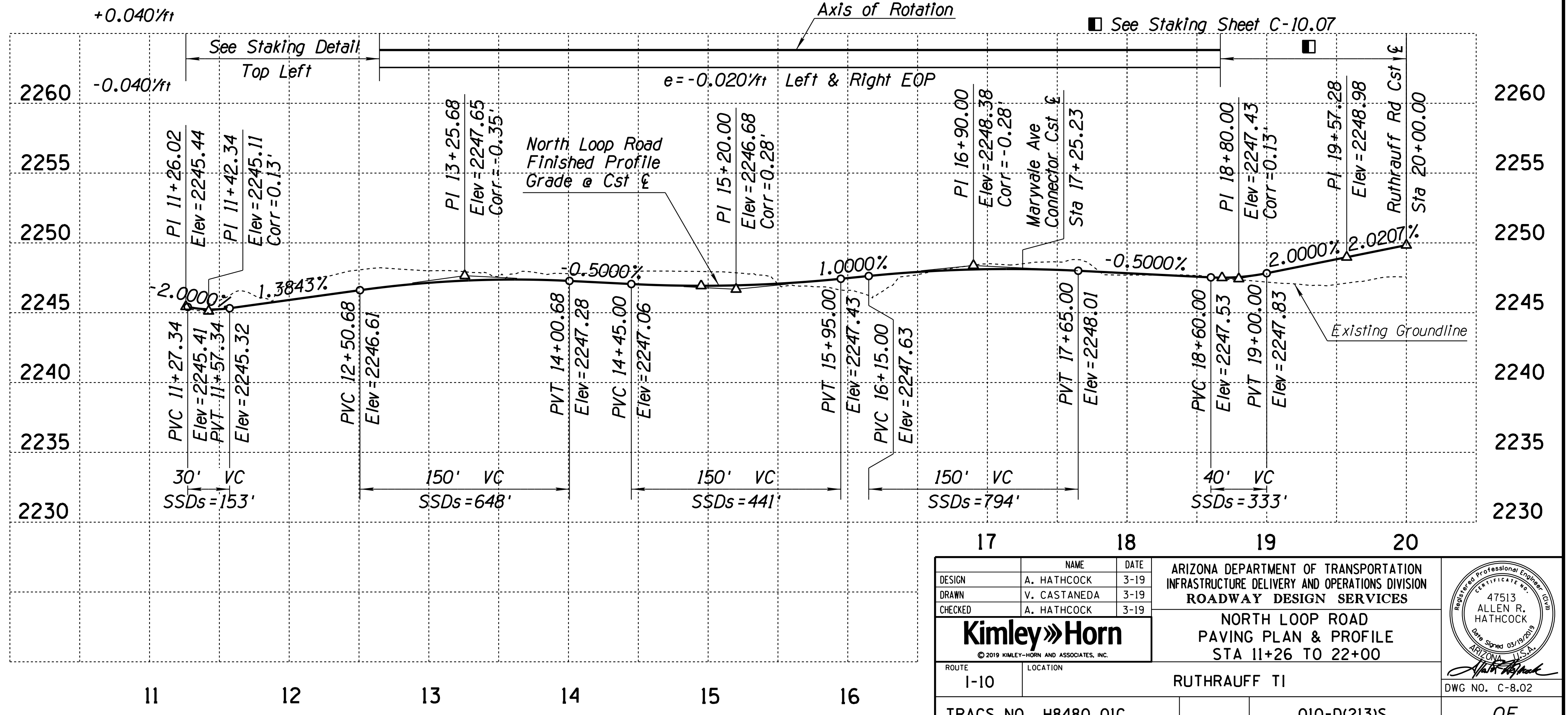
PI Sta 17+63.21  
 N 472304.456  
 E 975718.557

Main Curve  
 $\Delta = 90^\circ 35' 09''$  Rt  
 $D = 38^\circ 11' 50''$   
 $R = 150.00'$   
 $L = 237.15'$   
 $T = 151.54'$   
 $Ext = 63.22'$



Curve	Radius	Delta	Length
37	30'	72°04'04"	37.73'
38	50'	81°52'43"	71.45'

- Ramp Location Point
- Station and offset are based on the Davis Ave/Highway Dr Cst



DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19

**Kimley»Horn**  
 © 2019 KIMLEY-HORN AND ASSOCIATES, INC.

ROUTE 1-10 LOCATION RUTHRAUFF TI

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

NORTH LOOP ROAD  
 PAVING PLAN & PROFILE  
 STA 11+26 TO 22+00

47513 ALLEN R. HATHCOCK  
 State of Arizona Professional Engineer  
 License No. 12000

DWG NO. C-8.02

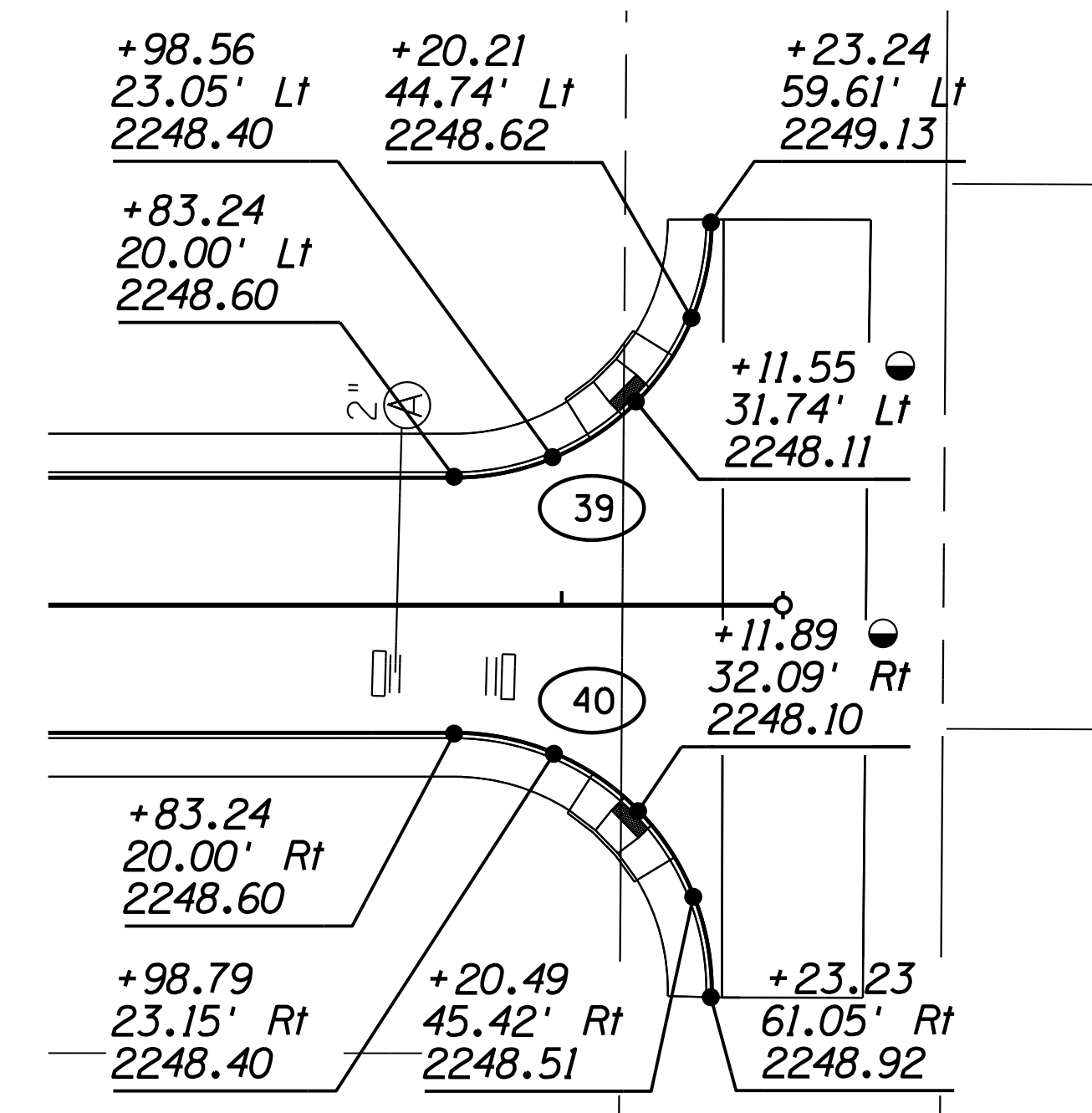
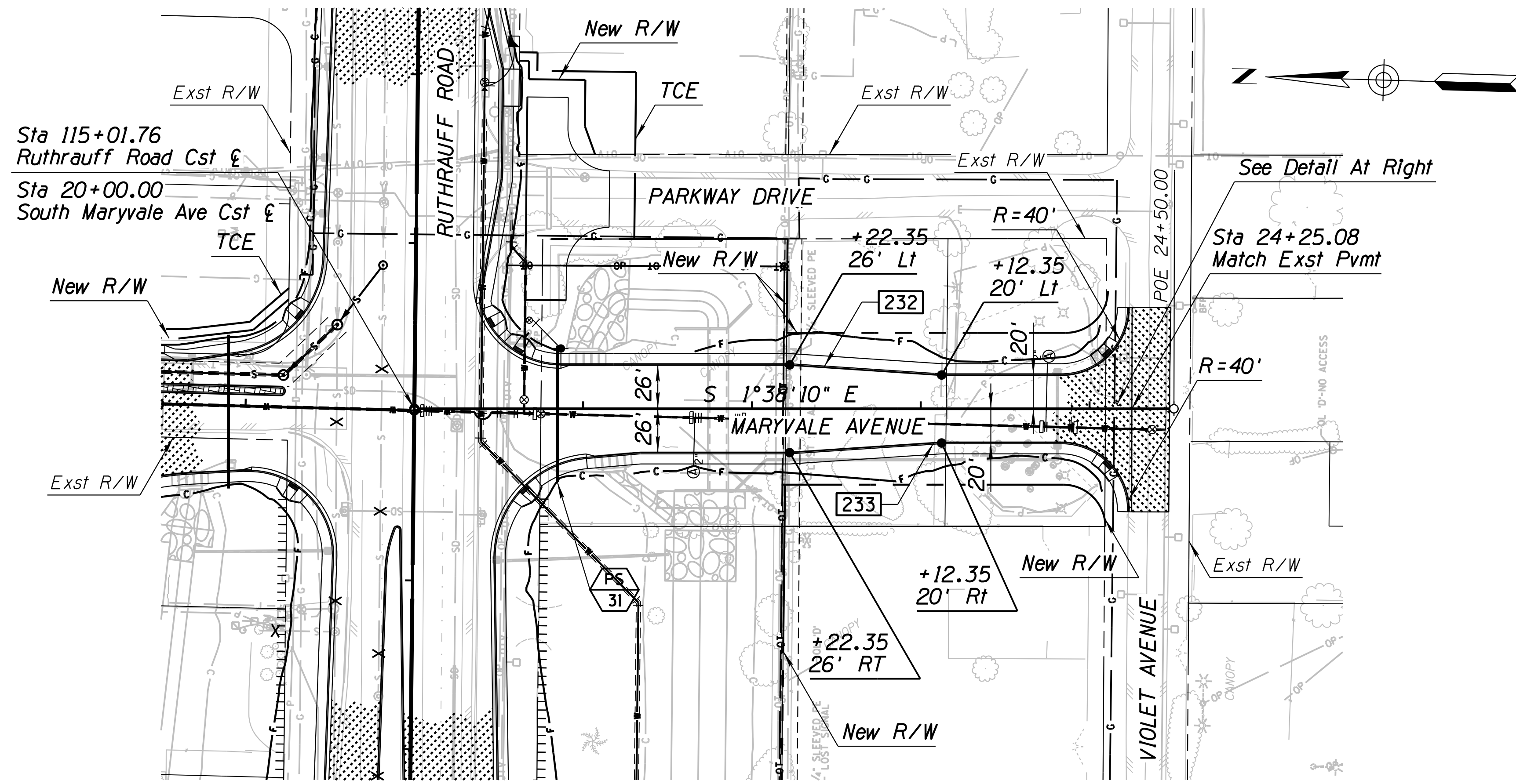
TRACS NO. H8480 OIC

010-D(213)S

OF

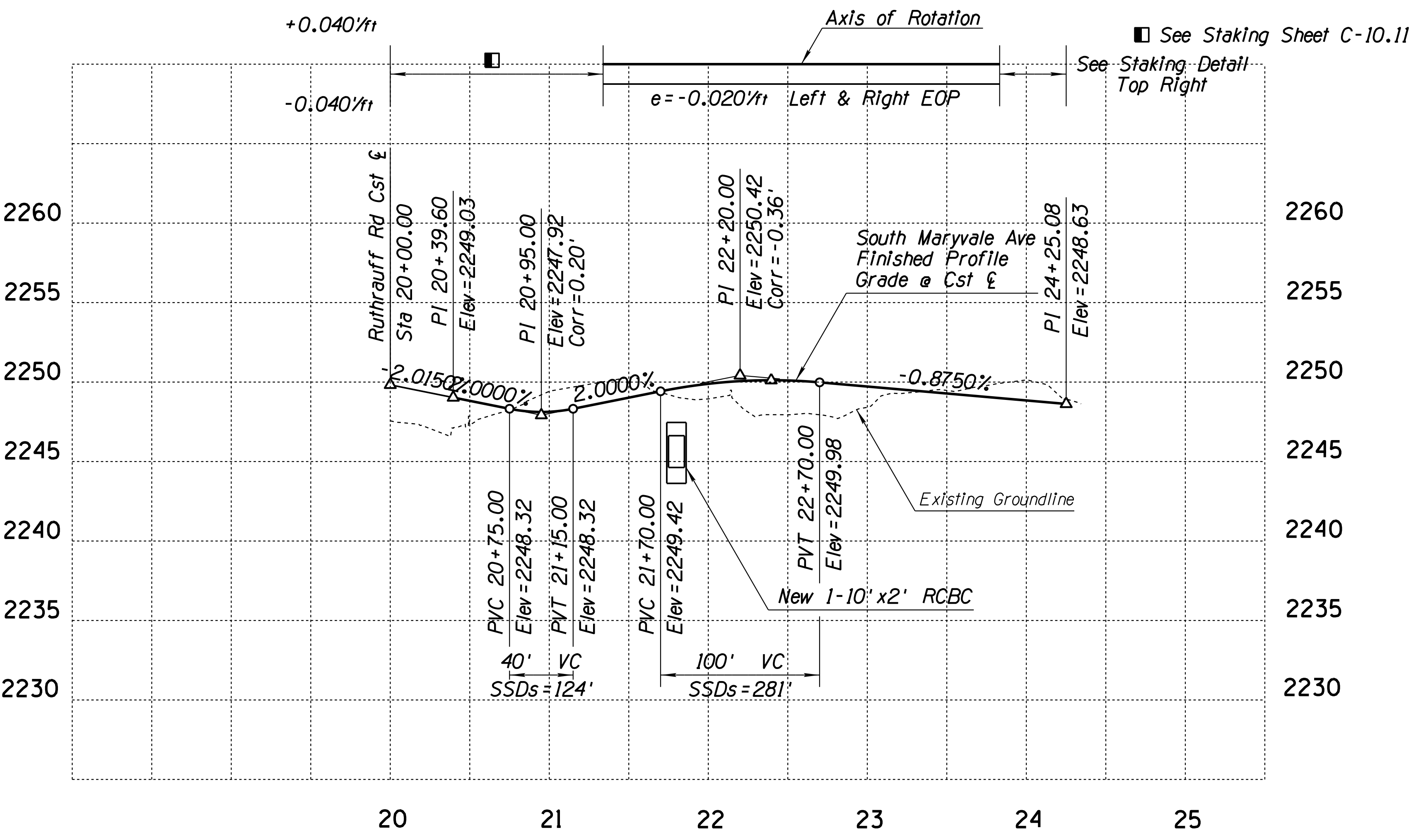
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	195	849	

010 PM 252



Curve	Radius	Delta	Length
39	40'	90°05'16"	62.89'
40	40'	91°30'22"	63.88'

● Ramp Location Point



DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		SOUTH MARYVALE AVE PAVING PLAN & PROFILE STA 20+00 TO 24+35	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. C-8.03	
TRACS NO. H8480 OIC			010-D(213)S	OF	

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

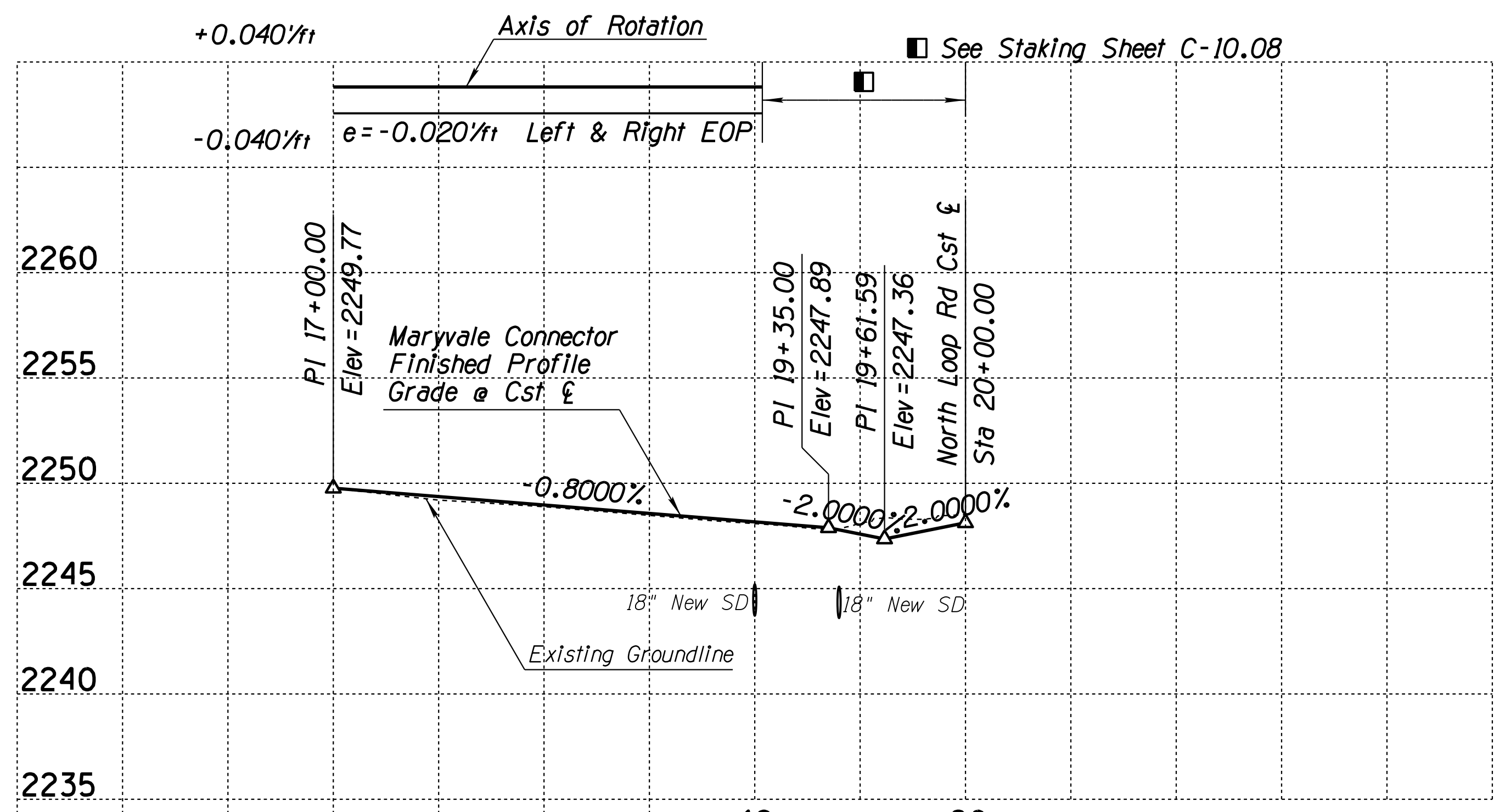
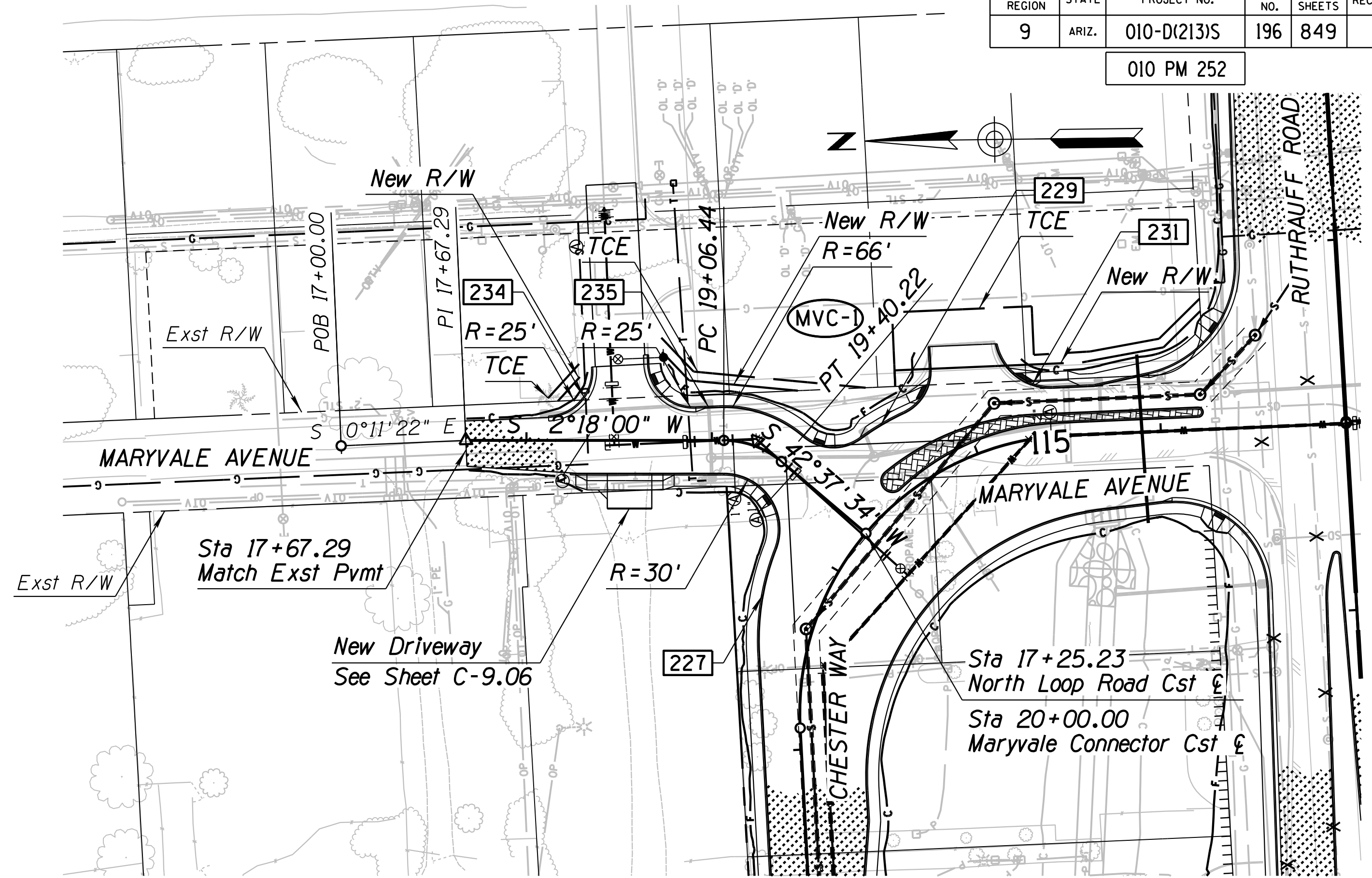
**(MVC-1) CURVE DATA**

PI Sta 19+24.06  
 N 472319.816  
 E 975722.989

Main Curve  
 $\Delta = 40^\circ 19' 34''$  Rt  
 $D = 119^\circ 21' 58''$   
 $R = 48.00'$   
 $L = 33.78'$   
 $T = 17.63'$   
 $Ext = 3.13'$

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	196	849	

010 PM 252

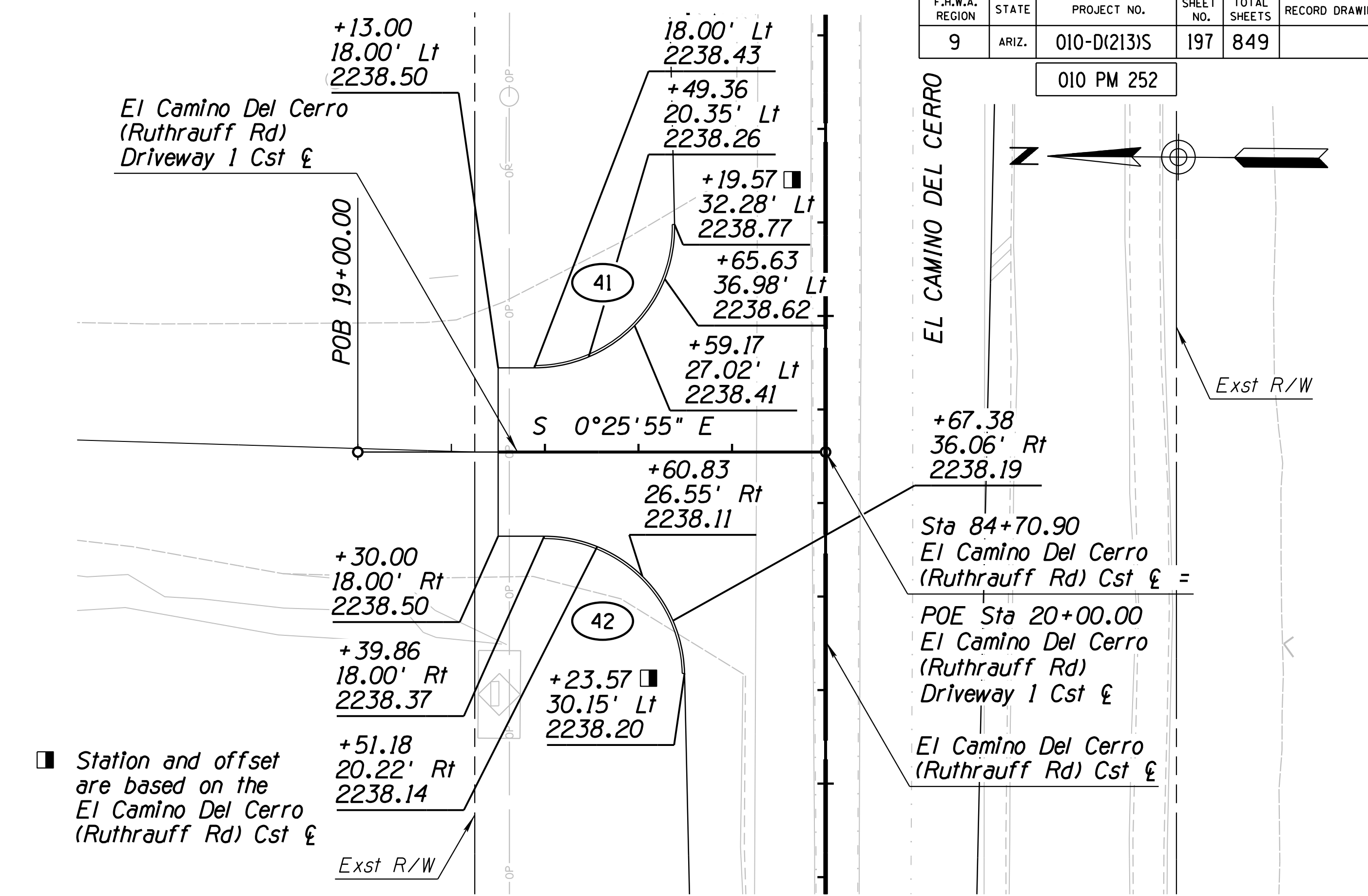


DESIGN	A. HATHCOCK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>MARYVALE CONNECTOR</b> <b>PAVING PLAN &amp; PROFILE</b> <b>STA 17+00 TO 20+00</b>	
DRAWN	V. CASTANEDA	3-19		
CHECKED	A. HATHCOCK	3-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		ROUTE 1-10 LOCATION RUTHRAUFF TI		DWG NO. C-8.04
TRACS NO. H8480 OIC		010-D(213)S		OF

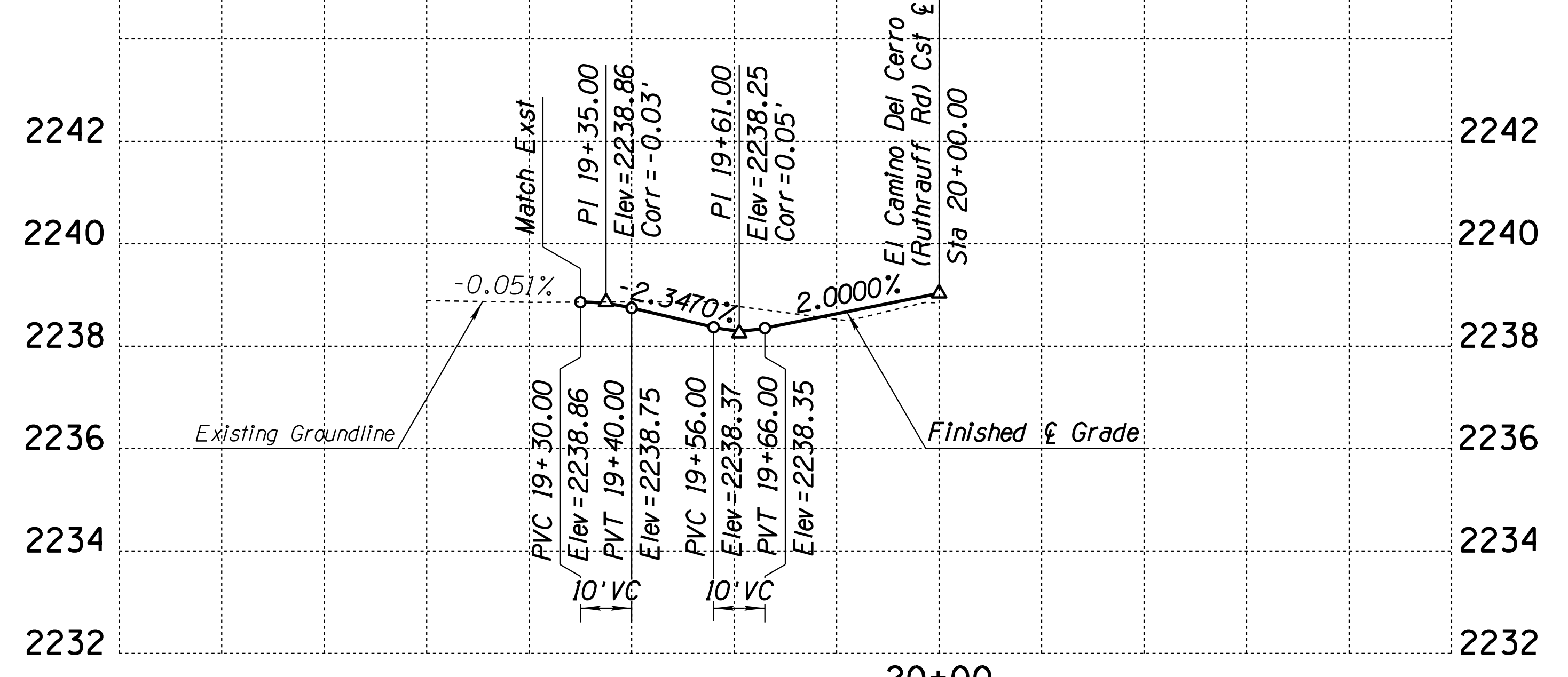
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	197	849	

010 PM 252



EL CAMINO DEL CERRO (RUTHRAUFF) DRIVEWAY NO. 1

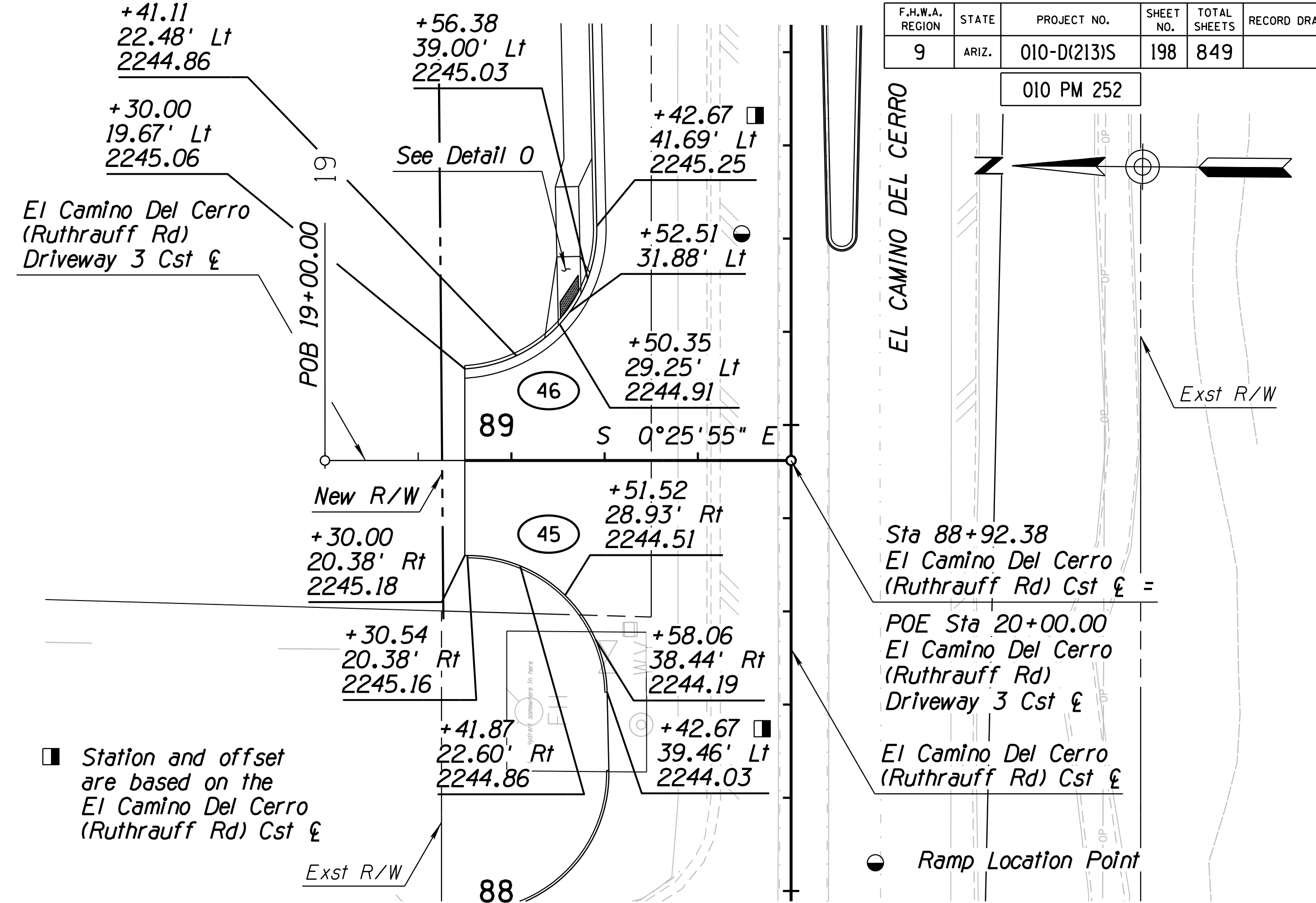
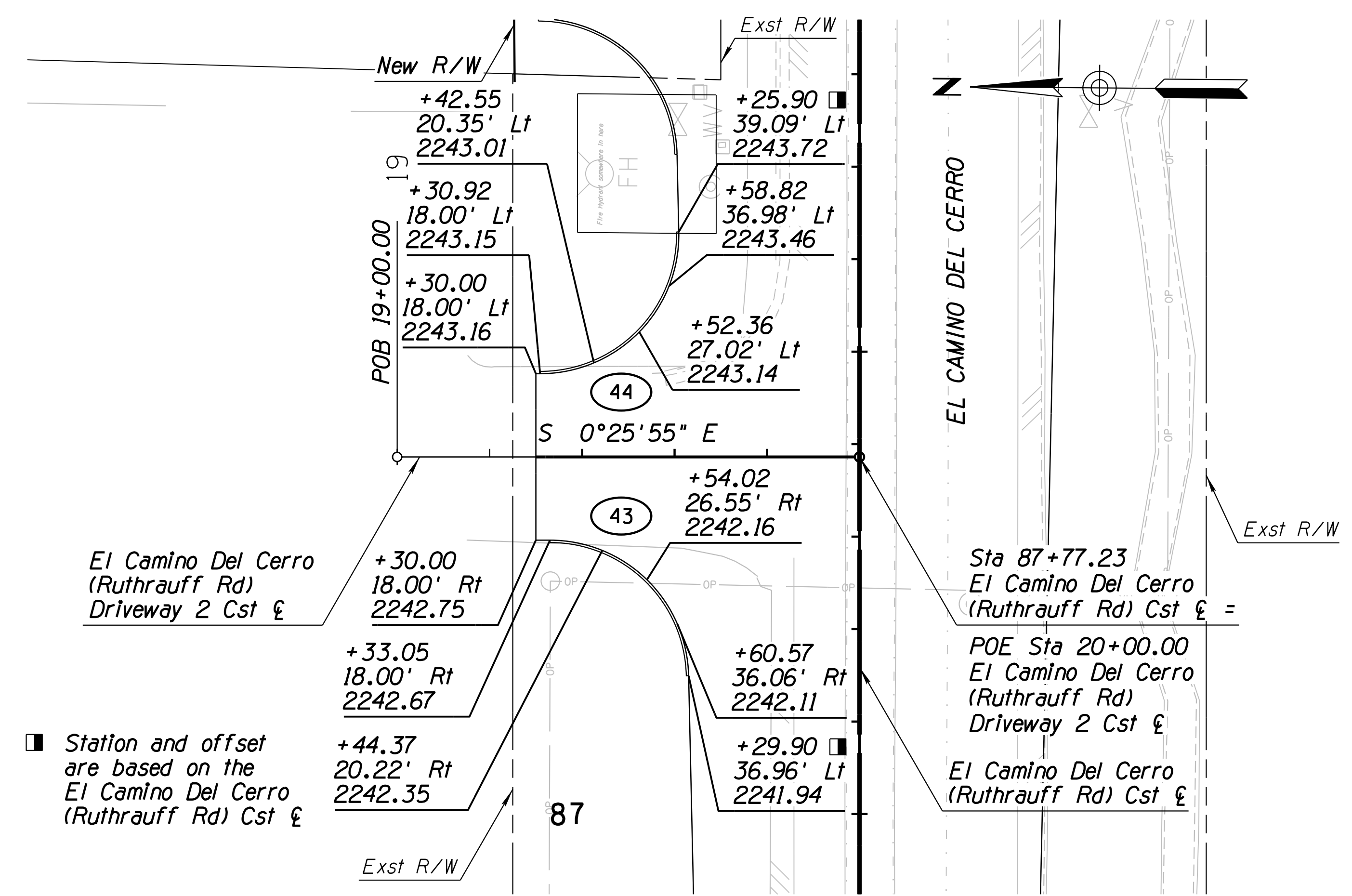


CURVE DATA			
Curve	Radius	Delta	Length
41	30'	91°16'23"	47.79'
42	30'	88°43'37"	46.46'

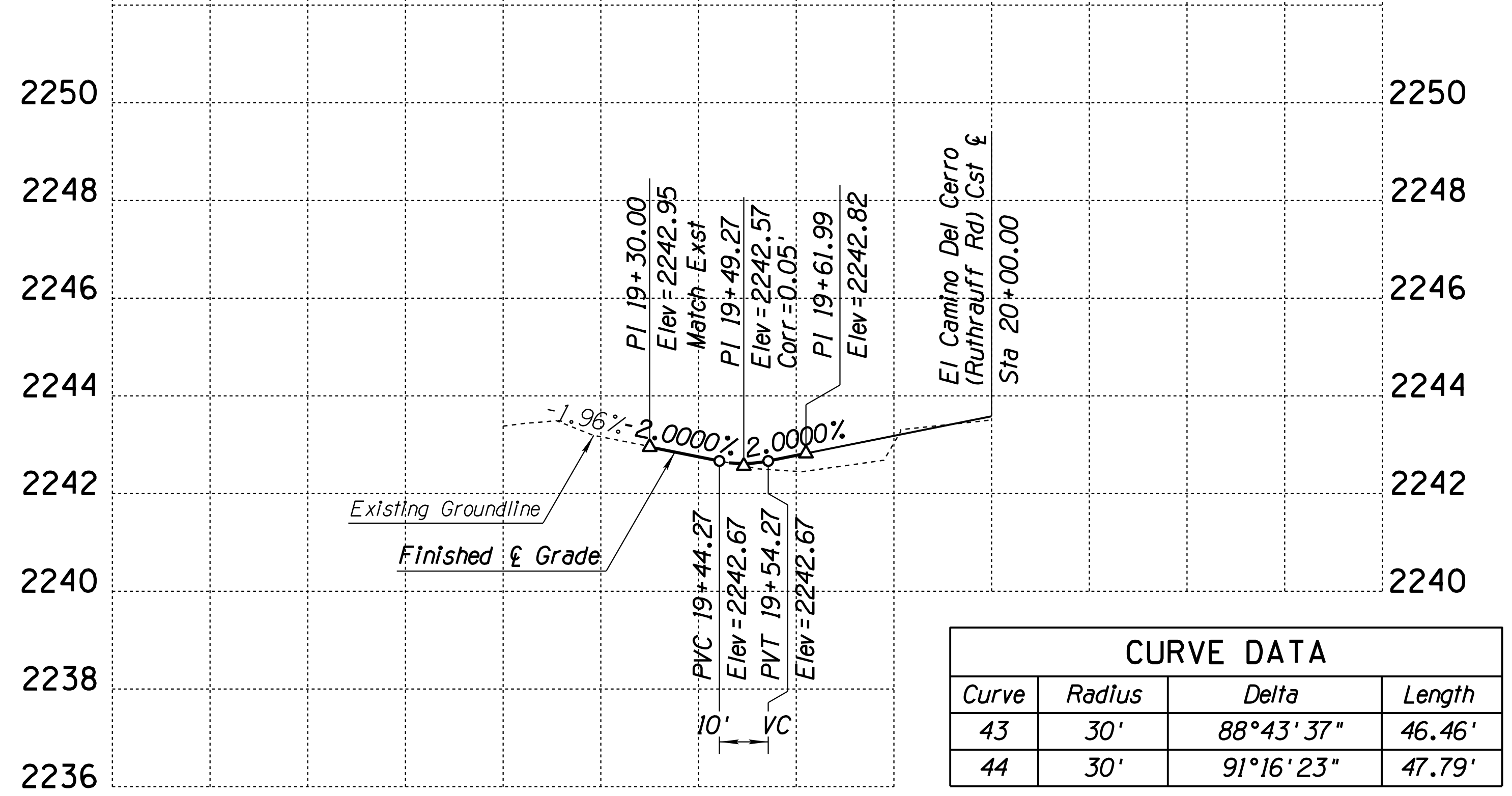
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> EL CAMINO DEL CERRO DRIVEWAY PLAN & PROFILE DRIVEWAY NO. 1	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		ROUTE 1-10 LOCATION RUTHRAUFF TI		DWG NO. C-9.01	
TRACS NO. H8480 OIC		010-D(213)S		OF	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	198	849	

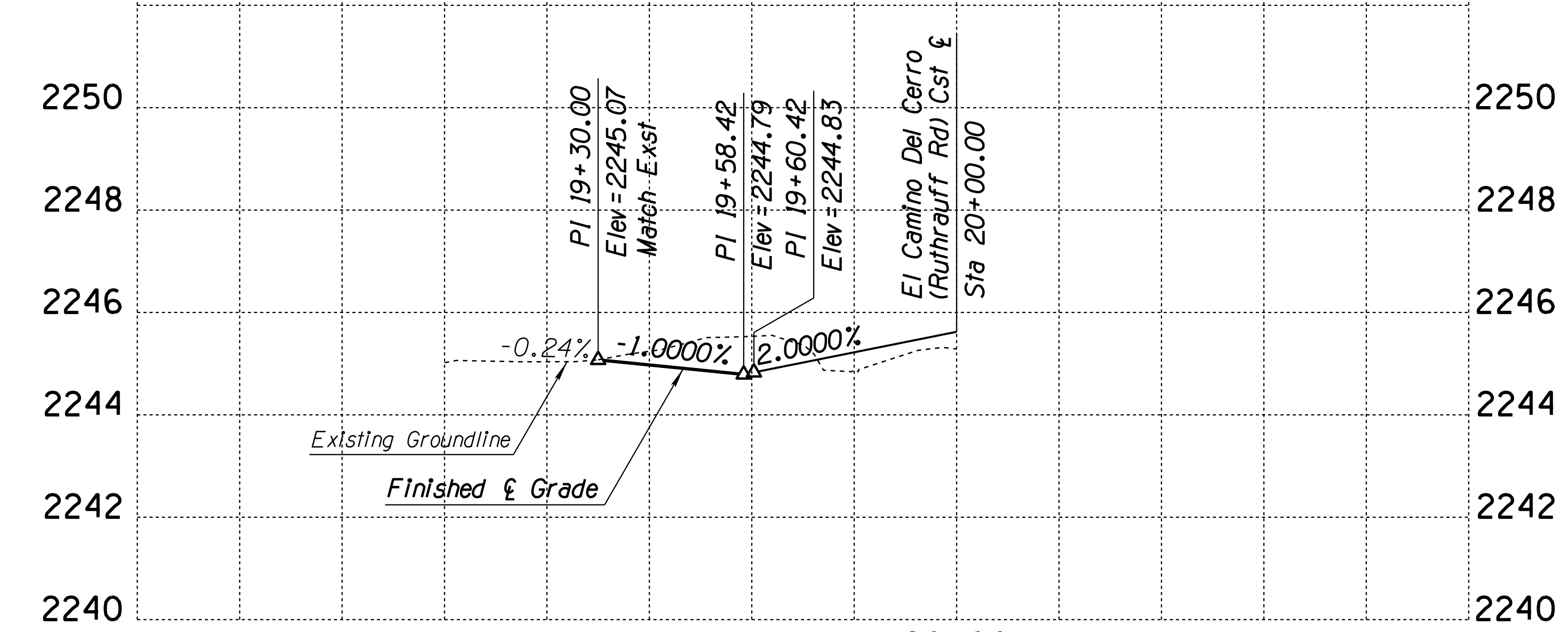


EL CAMINO DEL CERRO (RUTHRAUFF) DRIVEWAY NO. 2



Curve	Radius	Delta	Length
43	30'	88°43'37"	46.46'
44	30'	91°16'23"	47.79'

EL CAMINO DEL CERRO (RUTHRAUFF) DRIVEWAY NO. 3



Curve	Radius	Delta	Length
45	30'	88°43'37"	46.46'
46	30'	88°03'48"	46.11'

DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA	DATE	3-19
CHECKED	A. HATHCOCK	DATE	3-19

**Kimley-Horn**

ROUTE: I-10 LOCATION: RUTHRAUFF TI

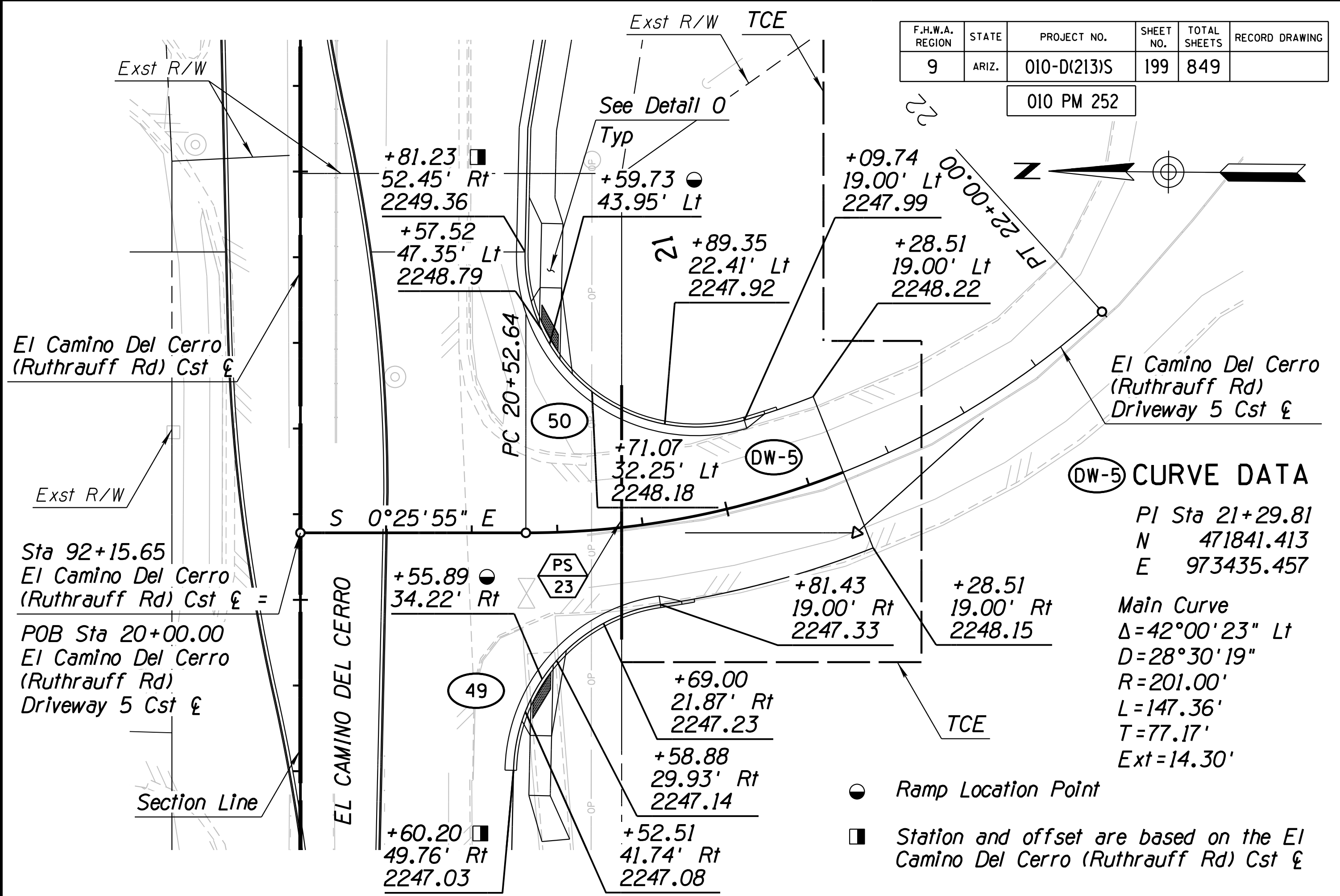
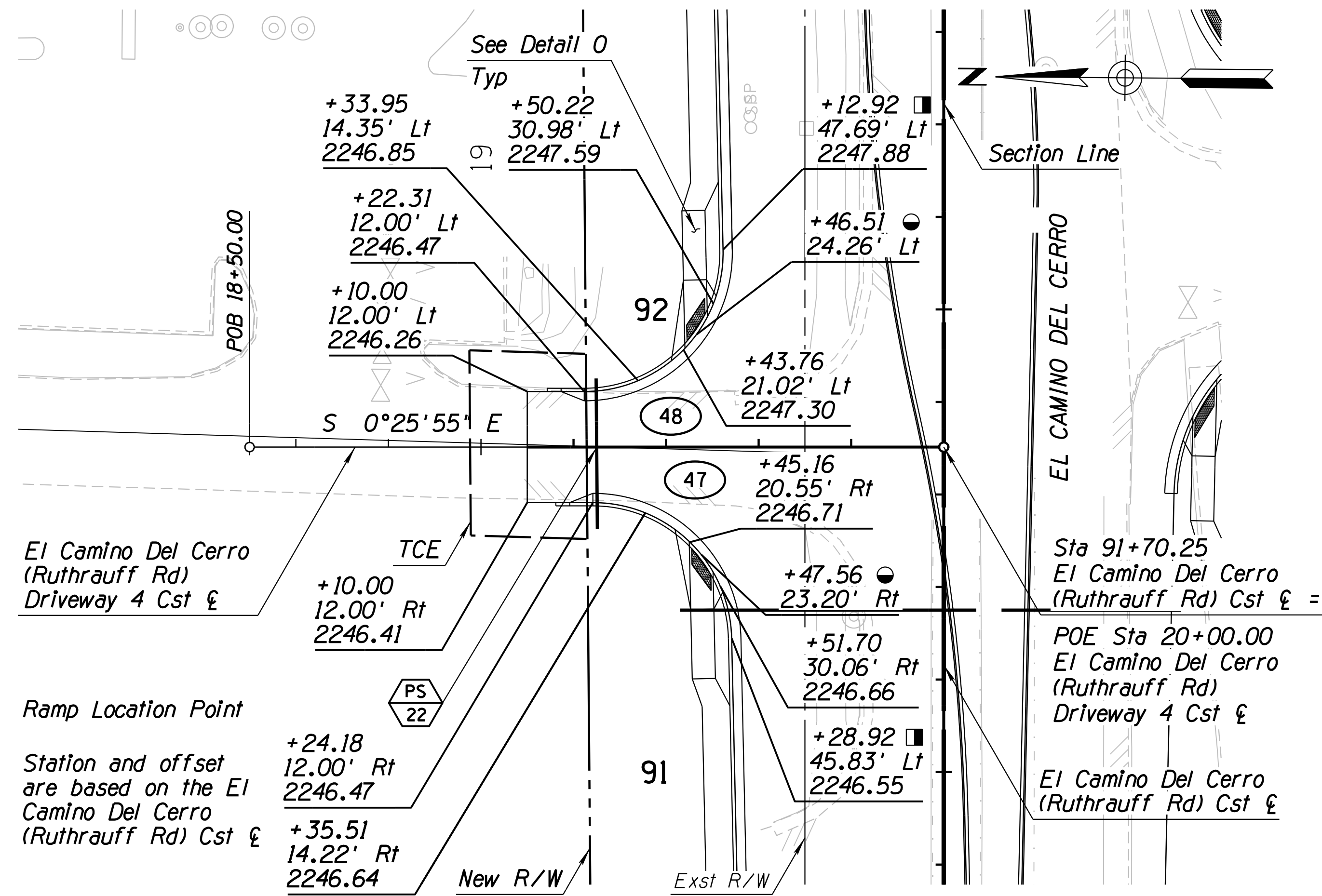
ARIZONA DEPARTMENT OF TRANSPORTATION  
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
ROADWAY DESIGN SERVICES

EL CAMINO DEL CERRO  
DRIVEWAY PLAN & PROFILE  
DRIVEWAYS NO. 2 AND 3

47513  
ALLEN R.  
HATHCOCK

DWG NO. C-9.02

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



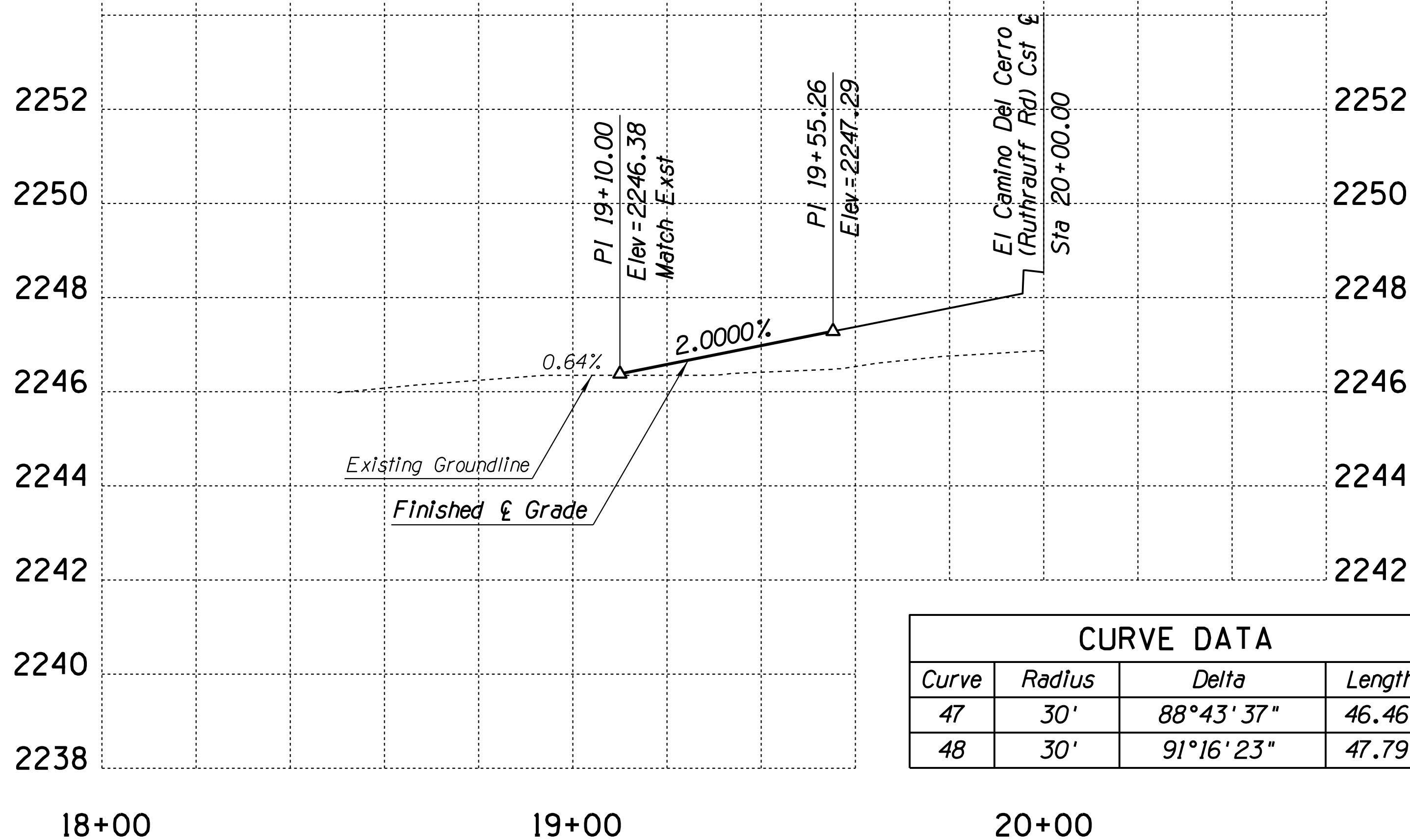
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	199	849	

**(DW-5) CURVE DATA**

PI Sta 21+29.81  
 N 471841.413  
 E 973435.457

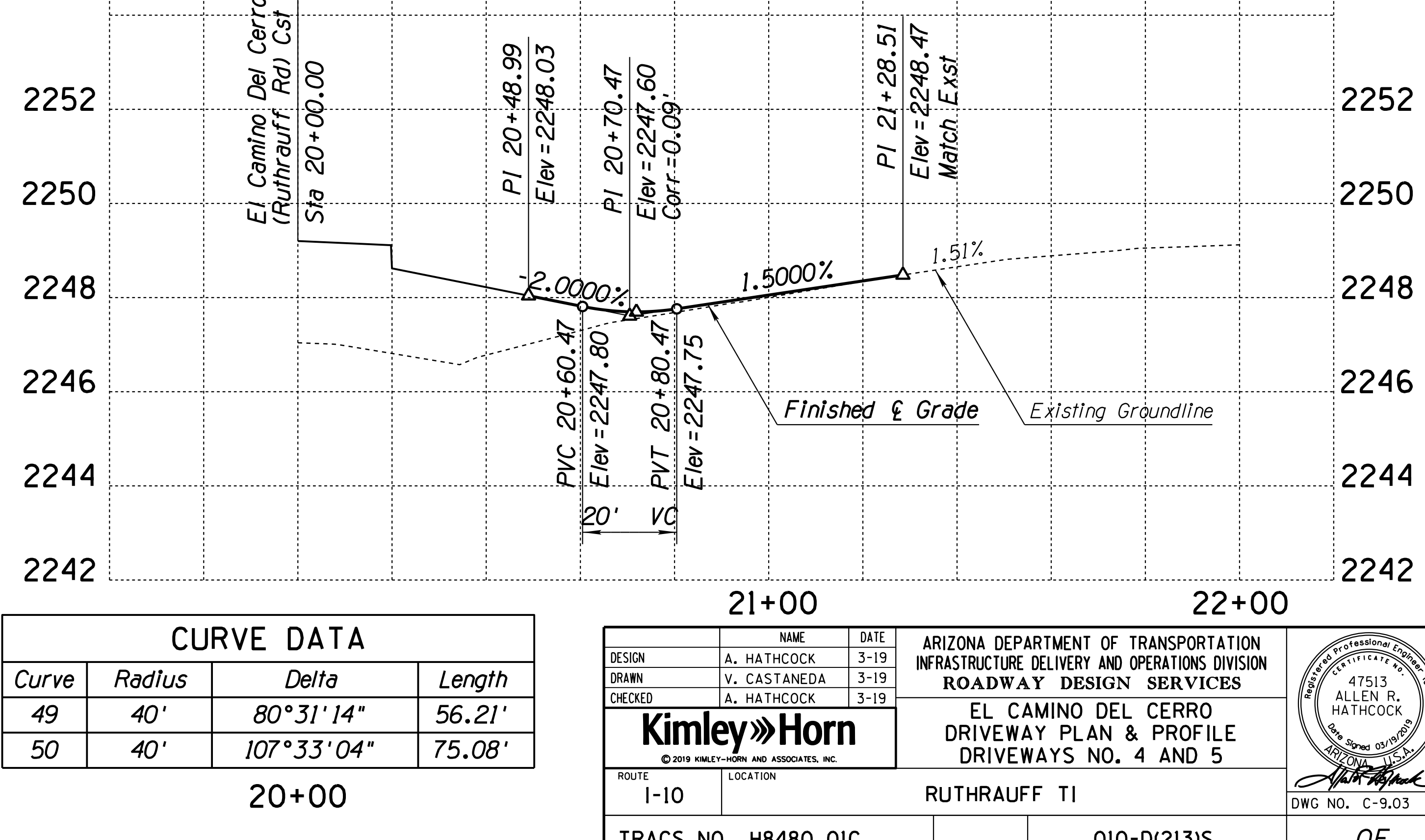
Main Curve  
 $\Delta = 42^\circ 00' 23''$  Lt  
 $D = 28^\circ 30' 19''$   
 $R = 201.00'$   
 $L = 147.36'$   
 $T = 77.17'$   
 $Ext = 14.30'$

**EL CAMINO DEL CERRO (RUTHRAUFF) DRIVEWAY NO. 4**



Curve	Radius	Delta	Length
47	30'	88°43'37"	46.46'
48	30'	91°16'23"	47.79'

**EL CAMINO DEL CERRO (RUTHRAUFF) DRIVEWAY NO. 5**



Curve	Radius	Delta	Length
49	40'	80°31'14"	56.21'
50	40'	107°33'04"	75.08'

DESIGN	A. HATHCOCK	DATE	3-19
DRAWN	V. CASTANEDA		3-19
CHECKED	A. HATHCOCK		3-19

**Kimley»Horn**  
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

ROUTE 1-10 LOCATION RUTHRAUFF TI

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

EL CAMINO DEL CERRO  
 DRIVEWAY PLAN & PROFILE  
 DRIVEWAYS NO. 4 AND 5

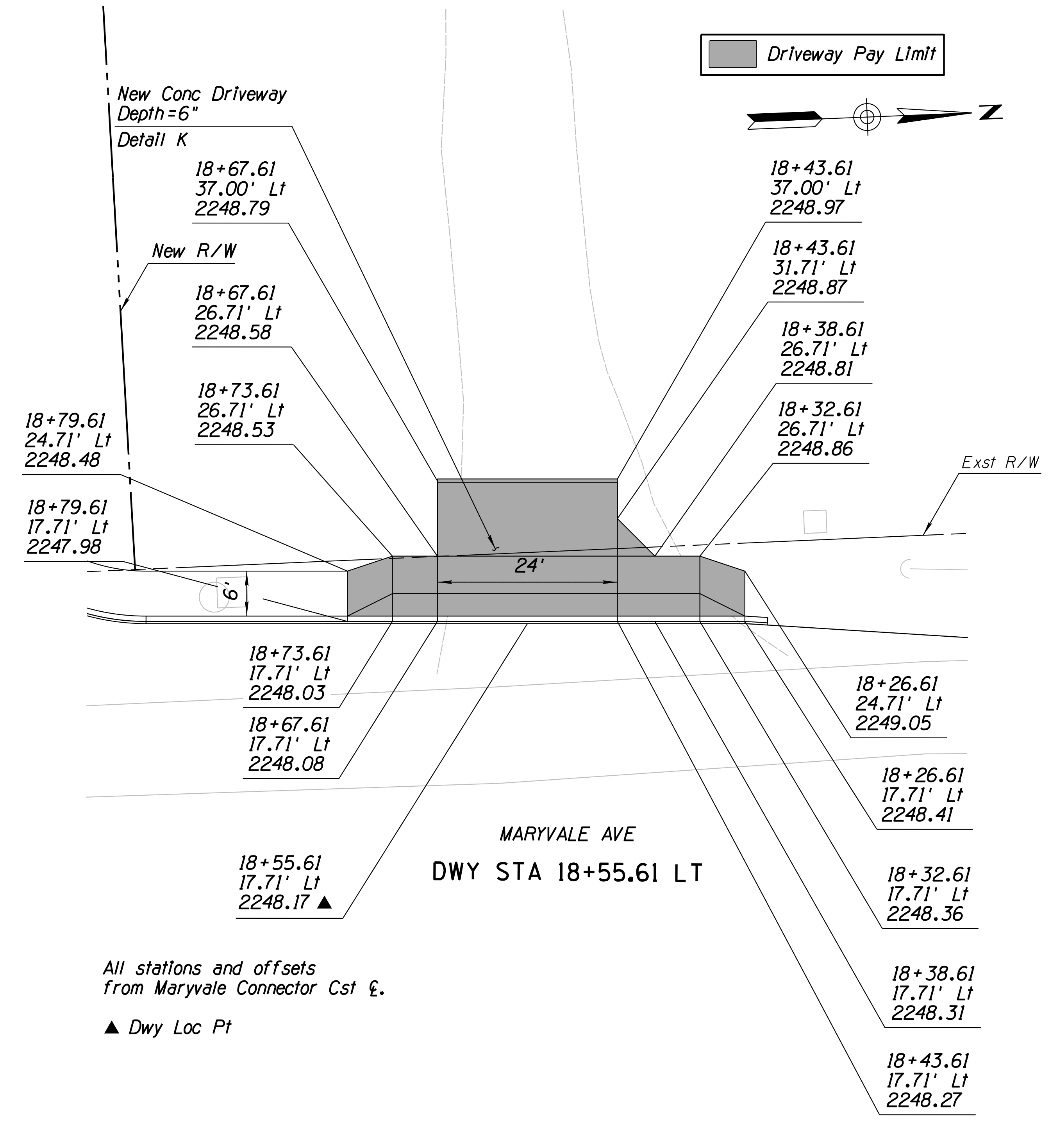
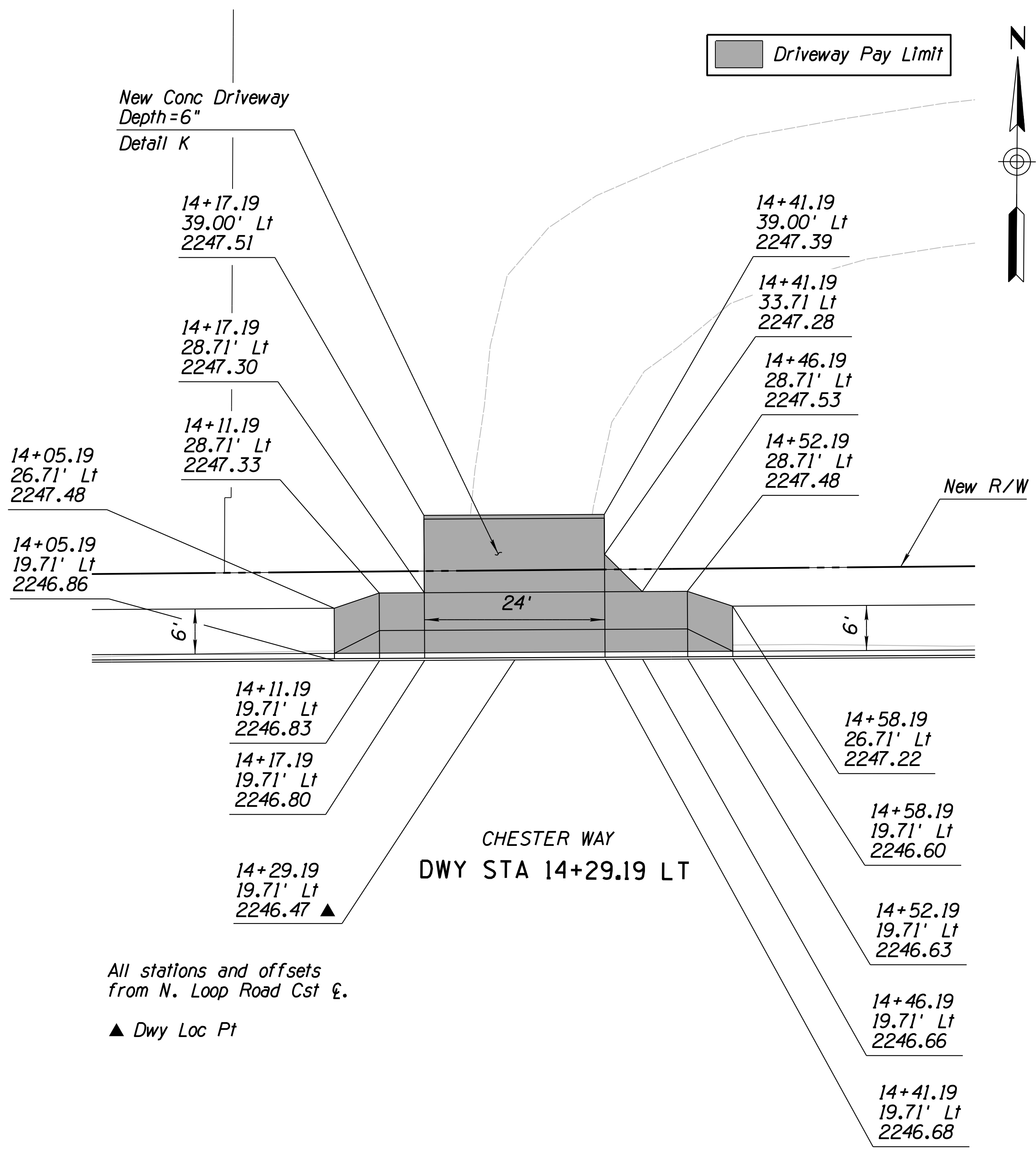
47513  
 ALLEN R.  
 HATHCOCK  
Professional Engineer  
 State of Arizona  
 License No. 12345

DWG NO. C-9.03

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	200	849	

010 PM 252

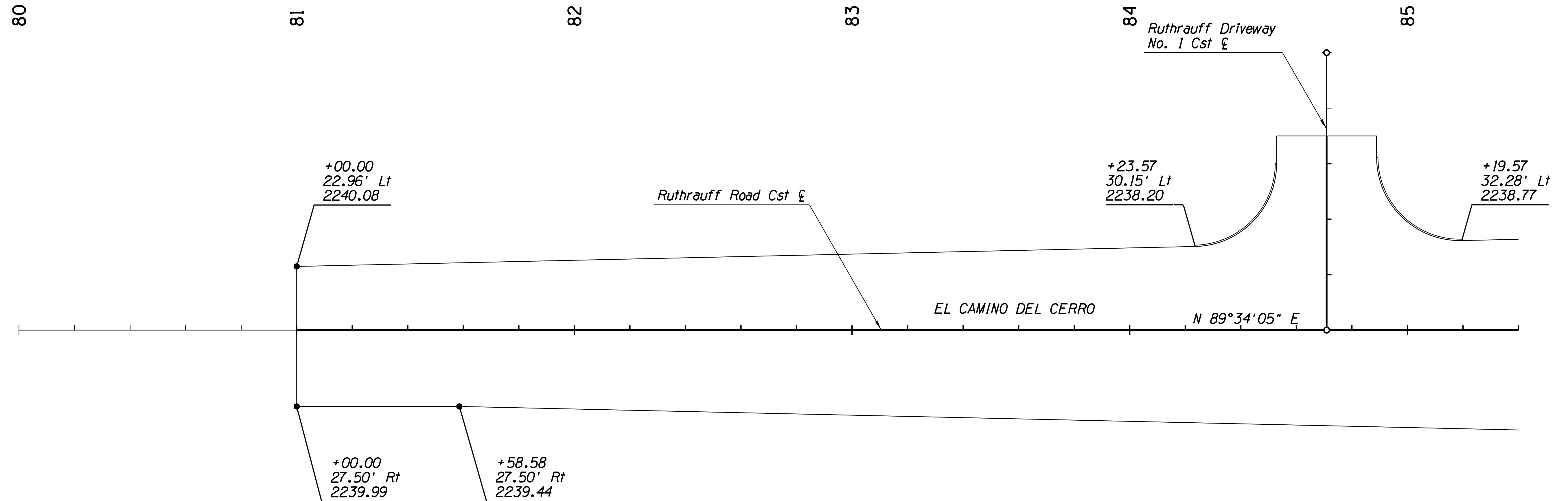
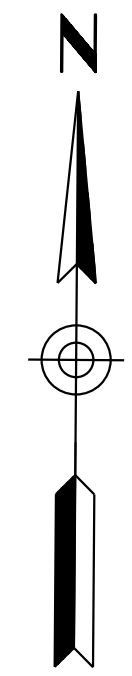
SURVEY NO. FINISHED PLANS. REVISIONS. LOCATION. DATE.



DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> CHESTER WAY & MARYVALE AVE DRIVEWAY APRON STAKING SHEET	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		ROUTE: 1-10    LOCATION: RUTHRAUFF TI TRACS NO. H8480 OIC    010-D(213)S    DWG NO. C-9.04	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	201	849	

010 PM 252



**NOTES:**

1. At vertical curb locations, elevations are to the horizontal control line.
  2. At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  3. Stations and offsets are based on Ruthrauff Road Cst &, unless otherwise noted.
  4. All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  5. All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**

+XX.XX  
XX.XX' Lt/Rt  
XXXX.XX

Station  
Offset  
Elevation

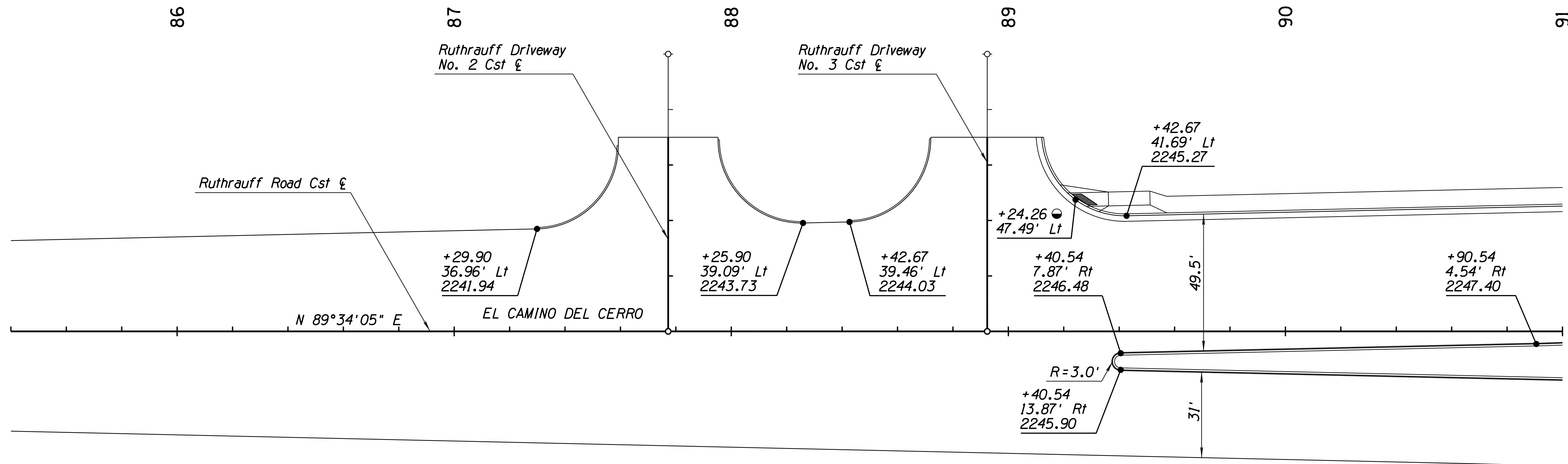
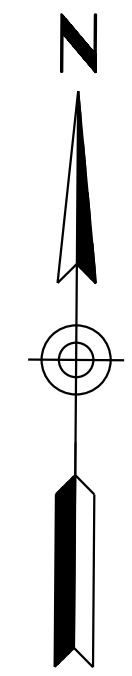
NOTE: The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction & has been designated as Ruthrauff Road Cst & for entire length.

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				RUTHRAUFF ROAD STAKING PLAN STA 80+00 TO 85+40	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. C-10.01	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	202	849	

010 PM 252



**NOTES:**

1. At vertical curb locations, elevations are to the horizontal control line.
  2. At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  3. Stations and offsets are based on Ruthrauff Road Cst  $\xi$ , unless otherwise noted.
  4. All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  5. All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

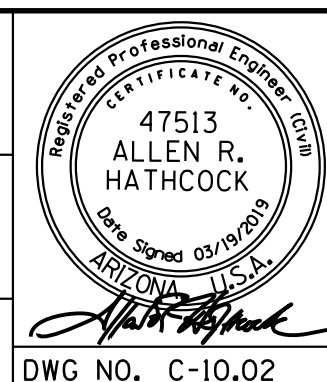
**LEGEND**

+XX.XX  
XX.XX' Lt/Rt  
XXXX.XX

Station  
Offset  
Elevation

**NOTE:** The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction  $\xi$  has been designated as Ruthrauff Road Cst  $\xi$  for entire length.

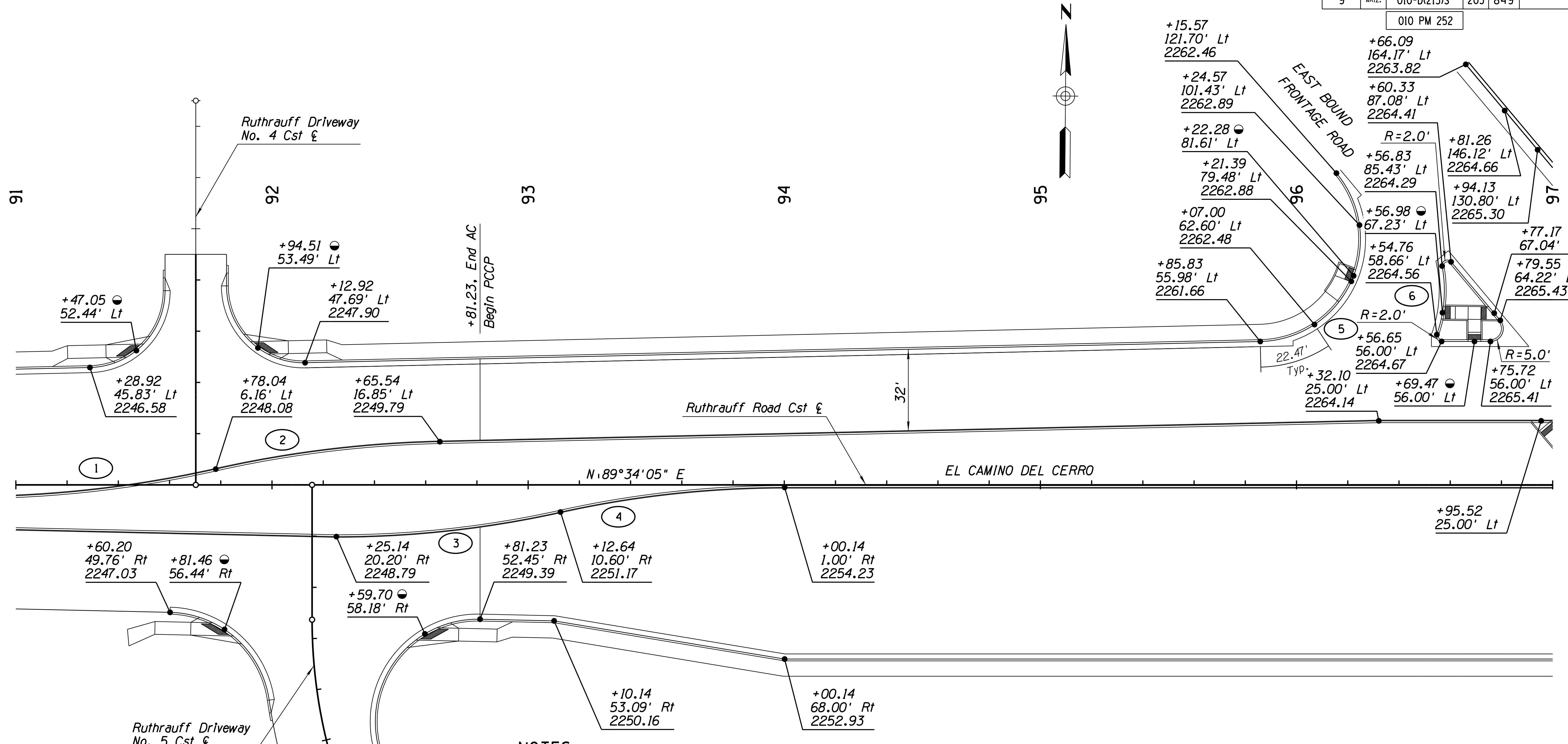
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				RUTHRAUFF ROAD STAKING PLAN STA 85+40 TO 91+00	
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.					
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. C-10.02	



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-D(213)S	203	849	

010 PM 252



CURVE DATA			
Curve	Radius	Delta	Length
1	444'	11°23'39"	88.30'
2	444'	11°23'39"	88.30'
3	403'	12°32'23"	88.20'
4	403'	12°32'23"	88.20'
5	40'	128°45'55"	89.90'
6	52'	29°55'15"	27.16'

- NOTES:**
- At vertical curb locations, elevations are to the horizontal control line.
  - At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  - Stations and offsets are based on Ruthrauff Road Cst E, unless otherwise noted.
  - All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  - All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**  
 +XX.XX  
 XX.XX' Lt/Rt  
 XXXX.XX

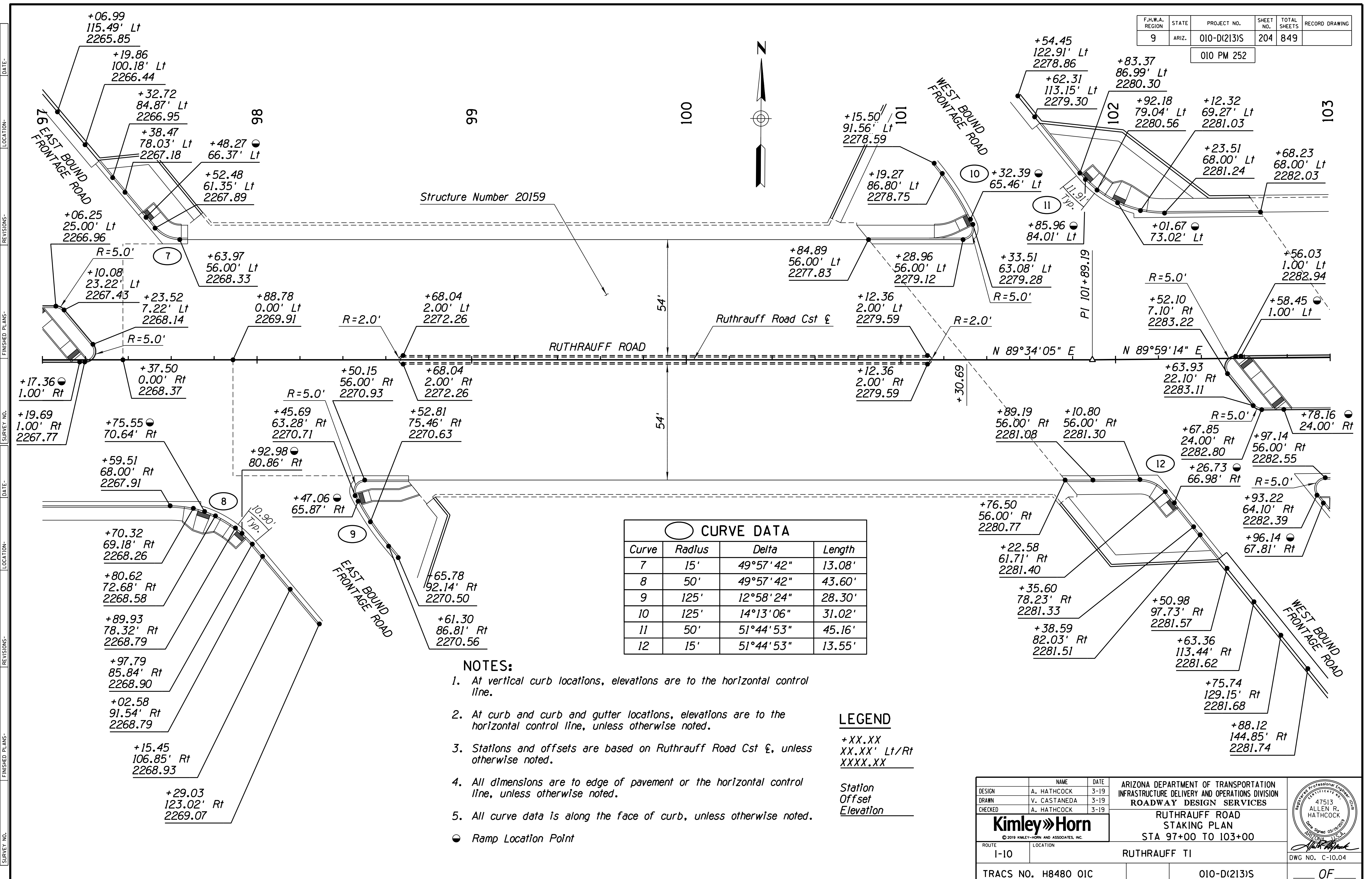
Station  
 Offset  
 Elevation

**NOTE:** The local street names are El Camino Del Cerro west of I-10 and Ruthrauff Road east of I-10. The construction E has been designated as Ruthrauff Road Cst E for entire length.

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				RUTHRAUFF ROAD STAKING PLAN STA 91+00 TO 97+00	
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. C-10.03	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	204	849	

010 PM 252



CURVE DATA			
Curve	Radius	Delta	Length
7	15'	49°57'42"	13.08'
8	50'	49°57'42"	43.60'
9	125'	12°58'24"	28.30'
10	125'	14°13'06"	31.02'
11	50'	51°44'53"	45.16'
12	15'	51°44'53"	13.55'

- NOTES:**
- At vertical curb locations, elevations are to the horizontal control line.
  - At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  - Stations and offsets are based on Ruthrauff Road Cst &, unless otherwise noted.
  - All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  - All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**  
 +XX.XX  
 XX.XX' Lt/Rt  
 XXXX.XX

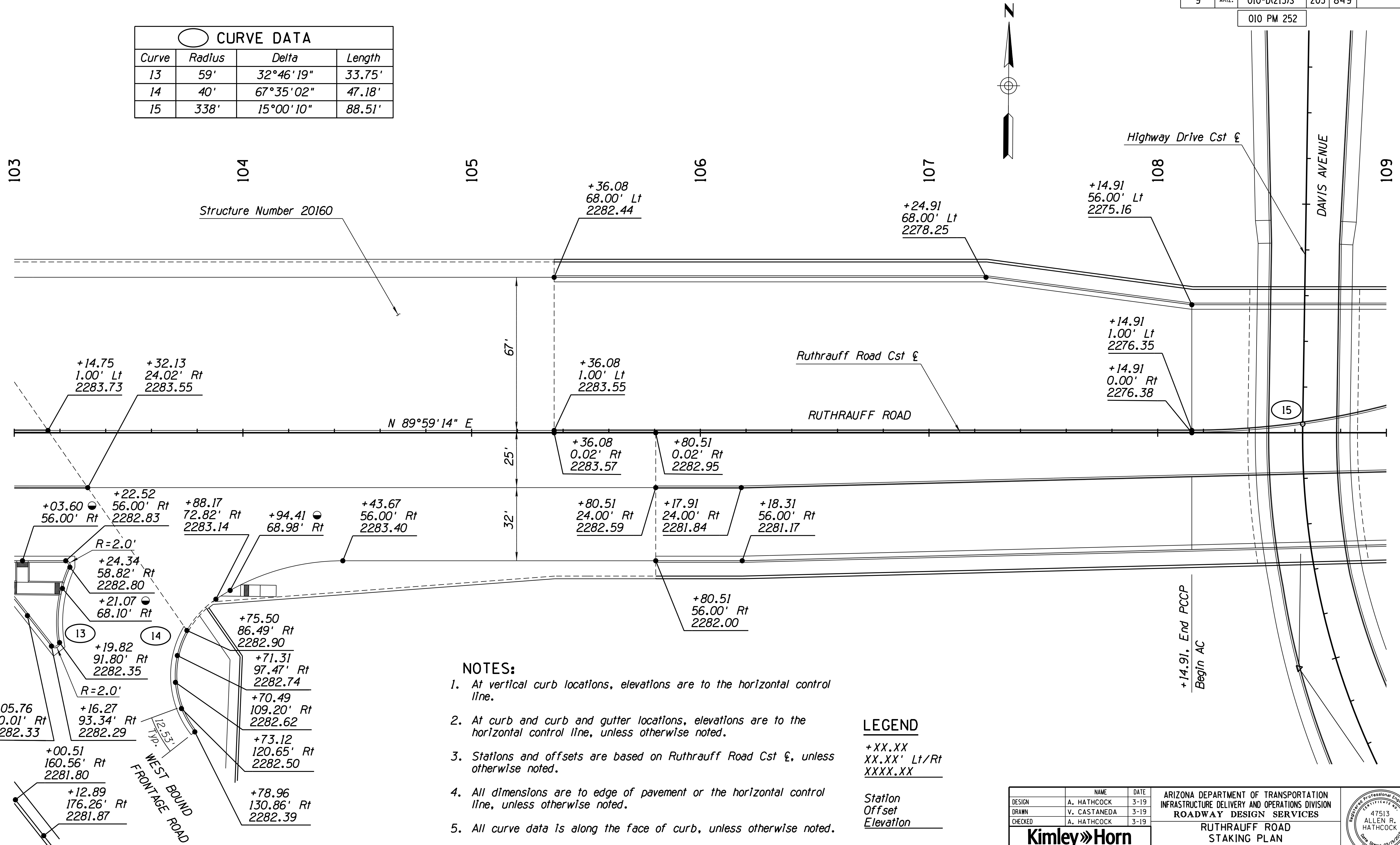
Station  
 Offset  
 Elevation

DESIGN	A. HATHCOCK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	V. CASTANEDA	3-19			
CHECKED	A. HATHCOCK	3-19			
			RUTHRAUFF ROAD STAKING PLAN STA 97+00 TO 103+00		
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	205	849	

010 PM 252

CURVE DATA			
Curve	Radius	Delta	Length
13	59'	32°46'19"	33.75'
14	40'	67°35'02"	47.18'
15	338'	15°00'10"	88.51'



- NOTES:**
1. At vertical curb locations, elevations are to the horizontal control line.
  2. At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  3. Stations and offsets are based on Ruthrauff Road Cst €, unless otherwise noted.
  4. All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  5. All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**

+XX.XX  
XX.XX' Lt/Rt  
XXXX.XX

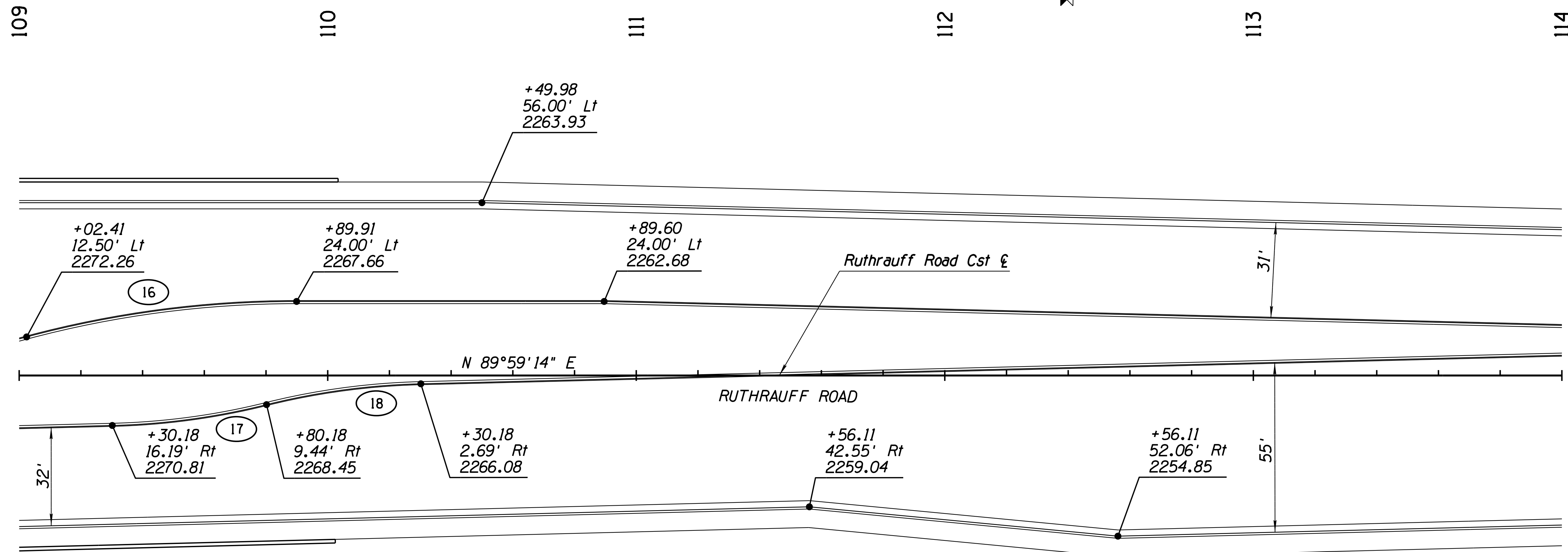
Station  
Offset  
Elevation

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				RUTHRAUFF ROAD STAKING PLAN STA 103+00 TO 109+00	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		DWG NO. C-10.05

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-D(213)S	206	849	

010 PM 252



**NOTES:**

1. At vertical curb locations, elevations are to the horizontal control line.
  2. At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  3. Stations and offsets are based on Ruthrauff Road Cst  $\xi$ , unless otherwise noted.
  4. All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  5. All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**

+XX.XX  
XX.XX' Lt/Rt  
XXXX.XX

Station  
Offset  
Elevation

CURVE DATA			
Curve	Radius	Delta	Length
16	338'	15°00'10"	88.51'
17	230'	12°35'38"	50.56'
18	230'	12°35'38"	50.56'

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>				RUTHRAUFF ROAD STAKING PLAN STA 109+00 TO 114+00	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. C-10.06	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	208	849	

010 PM 252

CURVE DATA			
Curve	Radius	Delta	Length
25	132'	40°48'04"	94.00'
26	30'	80°24'21"	42.10'
27	25'	68°26'48"	29.87'
28	137.76'	36°54'27"	88.74'
29	135'	11°25'51"	26.93'
30	25'	76°47'13"	33.50'
31	66'	42°58'45"	49.51'
32	25'	89°42'22"	39.14'
33	25'	90°17'35"	39.40'
34	30'	111°13'44"	58.24'
35	145'	86°04'29"	217.83'
36	135'	24°15'58"	57.18'

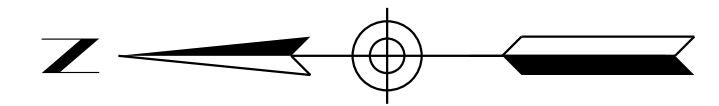
- NOTES:**
- At vertical curb locations, elevations are to the horizontal control line.
  - At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  - Stations and offsets are based on Ruthrauff Road Cst  $\xi$ , unless otherwise noted.
  - All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  - All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point
- Station and offset are based on the Maryvale Connector Cst  $\xi$

**LEGEND**

+XX.XX  
XX.XX' Lt/Rt  
XXXX.XX

Station  
Offset  
Elevation

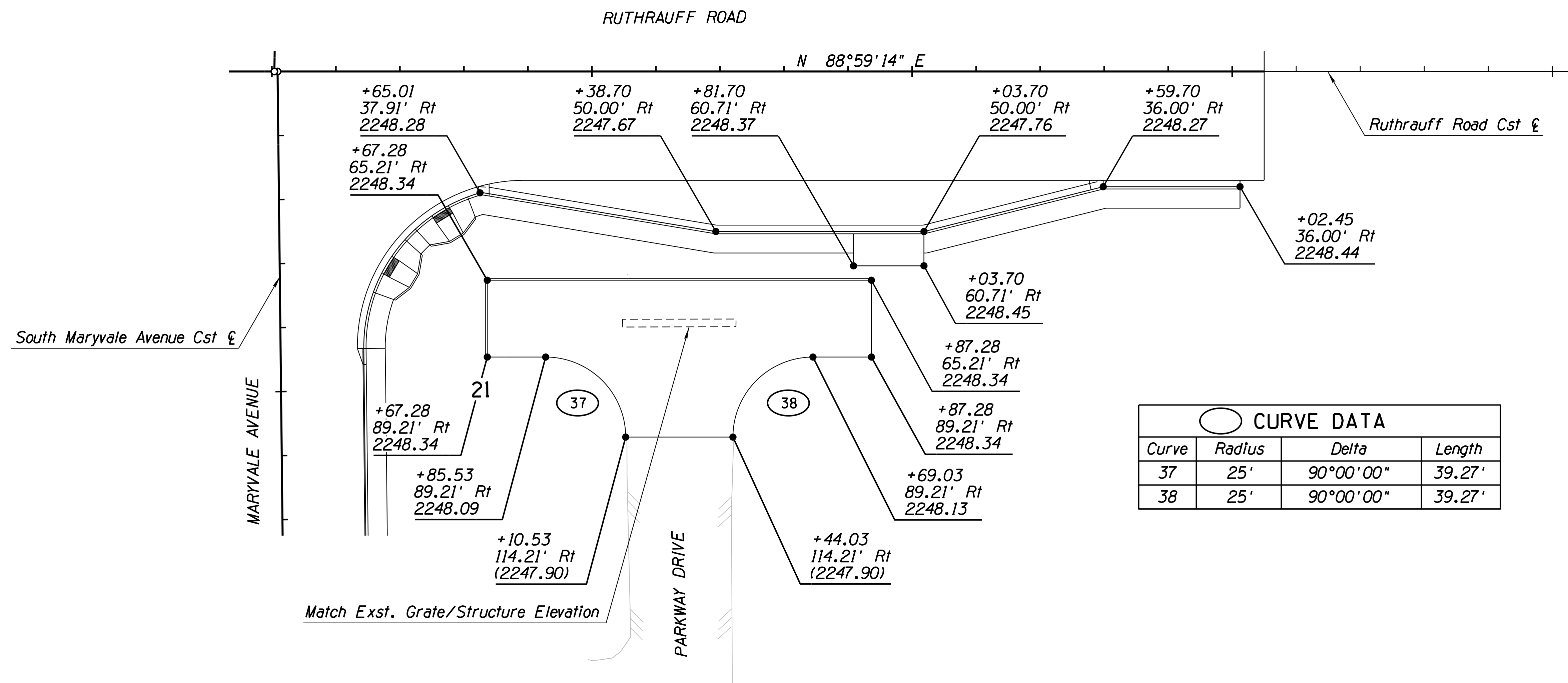
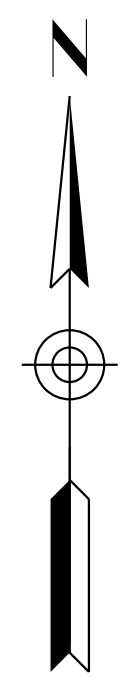
See Maryvale Ave  
Driveway Apron  
Staking Sheet



DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		CHESTER WAY & MARYVALE AVE STAKING PLAN	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. C-10.08	
TRACS NO. H8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	209	849	

010 PM 252



CURVE DATA			
Curve	Radius	Delta	Length
37	25'	90°00'00"	39.27'
38	25'	90°00'00"	39.27'

**NOTES:**

1. At vertical curb locations, elevations are to the horizontal control line.
  2. At curb and curb and gutter locations, elevations are to the horizontal control line, unless otherwise noted.
  3. Stations and offsets are based on Ruthrauff Road Cst  $\xi$ , unless otherwise noted.
  4. All dimensions are to edge of pavement or the horizontal control line, unless otherwise noted.
  5. All curve data is along the face of curb, unless otherwise noted.
- Ramp Location Point

**LEGEND**

+XX.XX  
 XX.XX' Lt/Rt  
 XXXX.XX

Station  
 Offset  
 Elevation

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b>				<b>PARKWAY DRIVE          STAKING PLAN</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			DWG NO. C-10.09		
			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-D(213)S	210	849	

010 PM 252

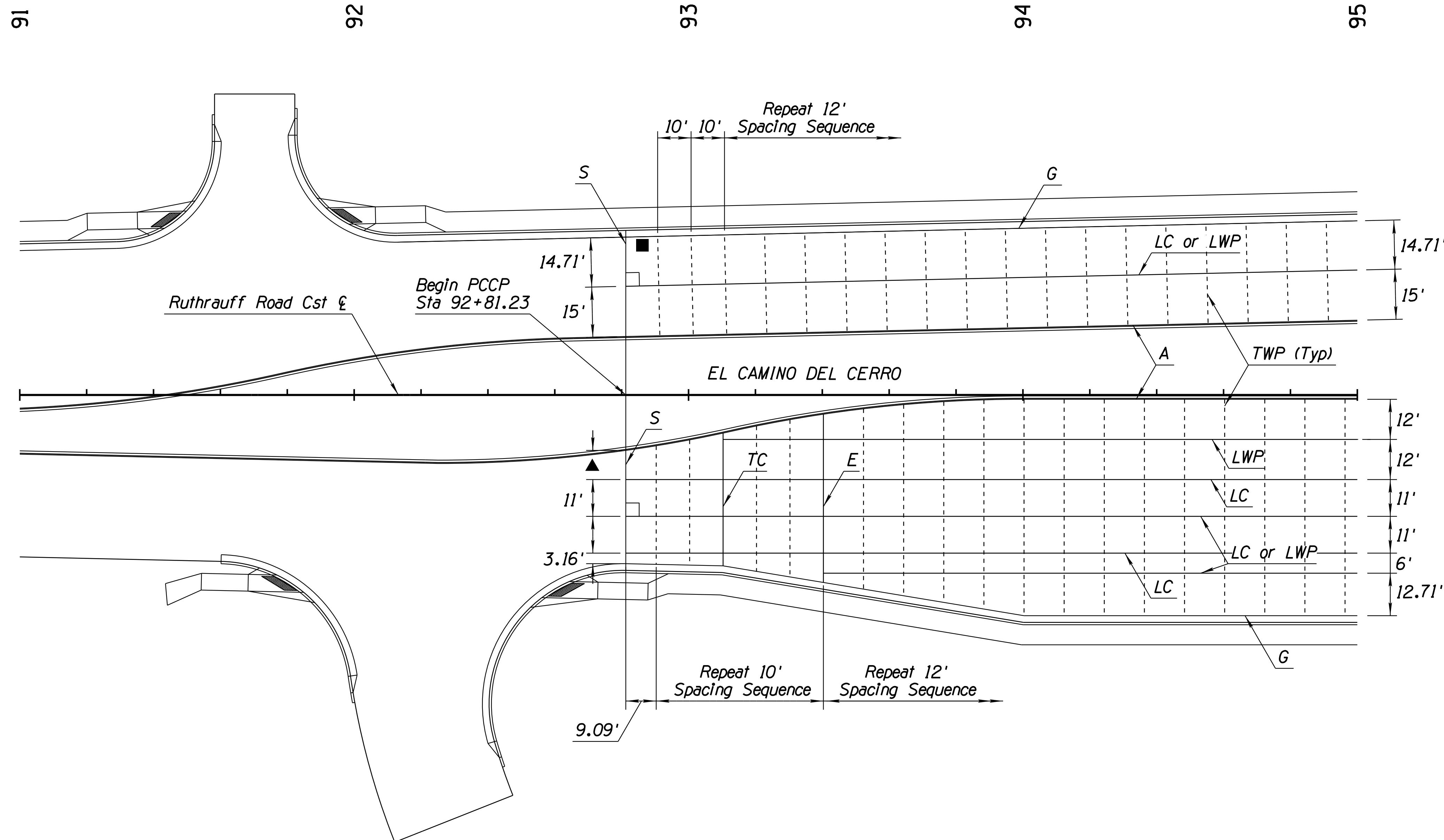


**NOTES:**

1. For additional joint information, see ADOT Std Dtl C-07.01 Series

▲ 6' Minimum

■ 9.53' - 10.19'



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

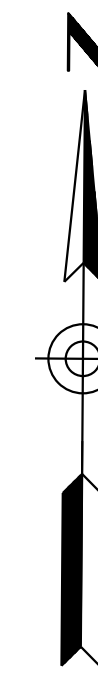
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>PCCP JOINT PLAN</b> <b>STA 91+00 TO 95+00</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		ROUTE 1-10 LOCATION RUTHRAUFF TI			DWG NO. C-11.01
TRACS NO. H8480 OIC		010-D(213)S		OF	





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	213	849	

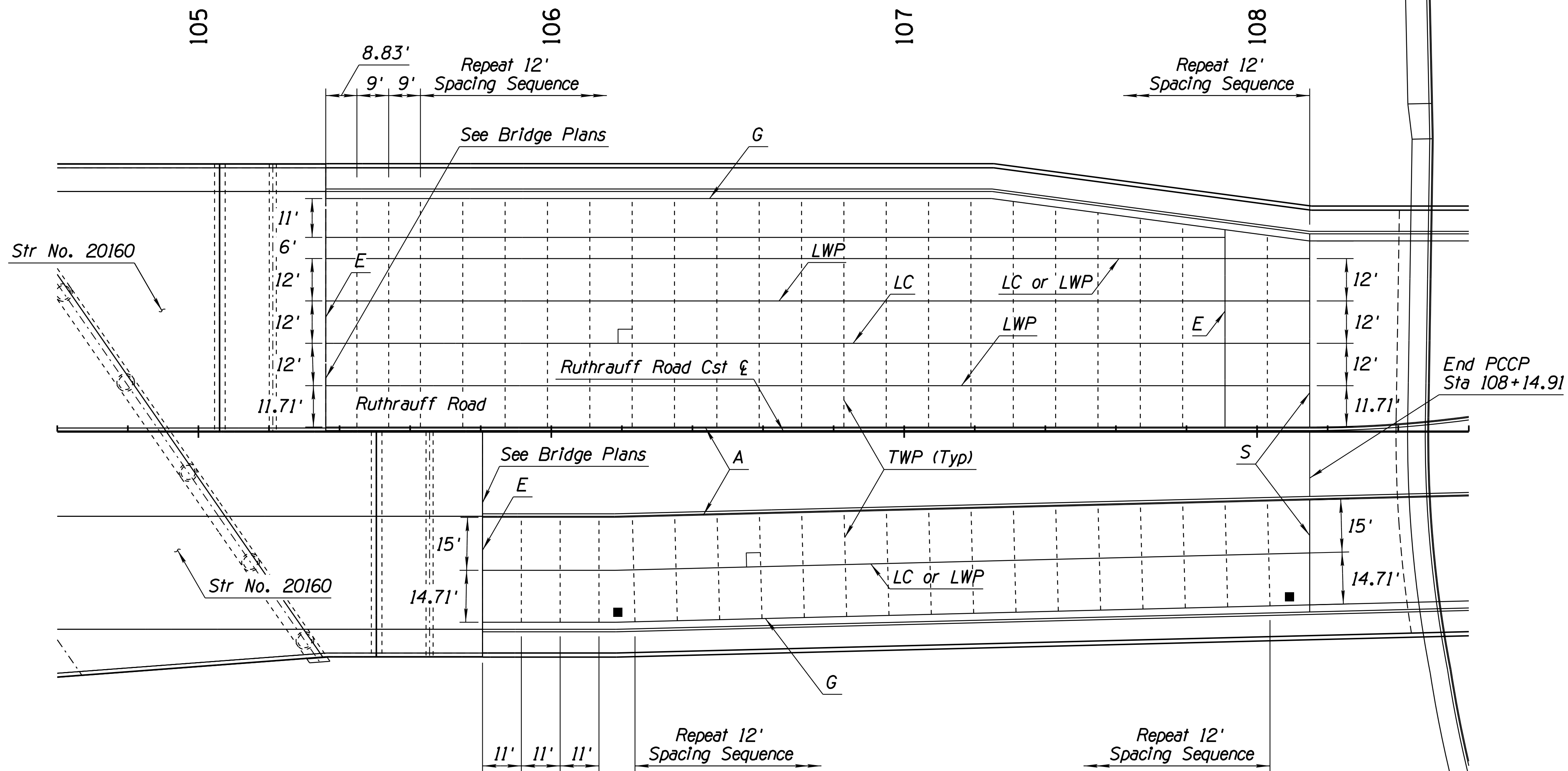
010 PM 252



**NOTES:**

1. For additional joint information, see ADOT Std Dtl C-07.01 Series

- *Varies* - 12' when adjacent gutter widths are 2' or less
- 15' when adjacent gutter widths are greater than 2'

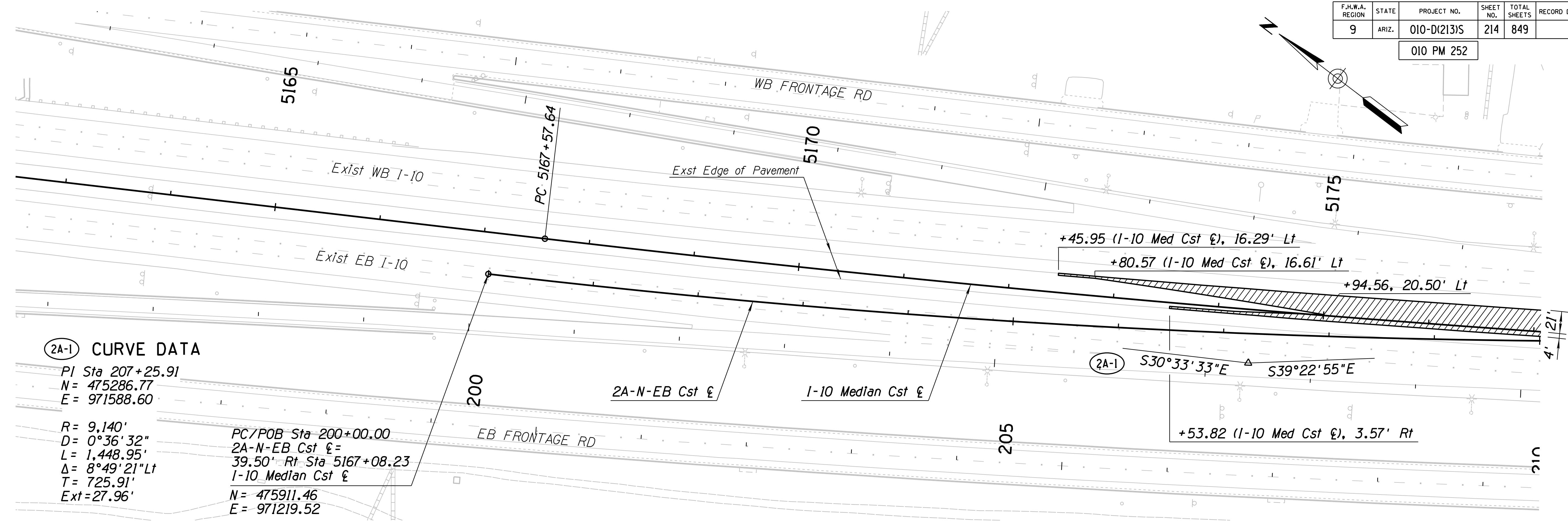
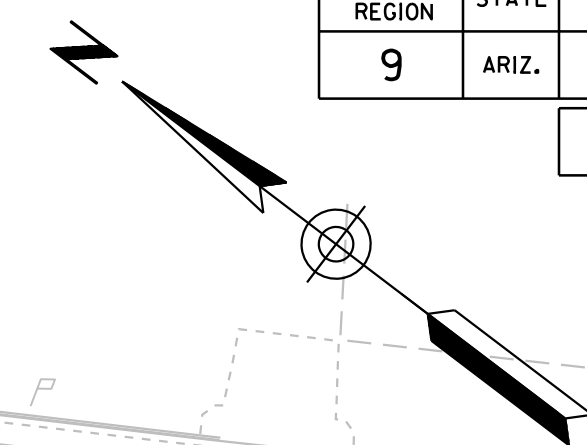


REVISIONS- LOCATION- DATE-  
 FINISHED PLANS- SURVEY NO.- DATE-  
 REVISIONS- LOCATION- DATE-  
 FINISHED PLANS- SURVEY NO.- DATE-

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> <b>RUTHRAUFF ROAD</b> <b>PCCP JOINT PLAN</b> <b>STA 104+60 TO 108+60</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	R. SOLIS	DATE	3-19		
		ROUTE 1-10 LOCATION RUTHRAUFF TI		DWG NO. C-11.04	
TRACS NO. H8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	214	849	

010 PM 252



**2A-1 CURVE DATA**

PI Sta 207+25.91  
 N = 475286.77  
 E = 971588.60

R = 9,140'  
 D = 0°36'32"  
 L = 1,448.95'  
 Δ = 8°49'21" Lt  
 T = 725.91'  
 Ext = 27.96'

PC/POB Sta 200+00.00  
 2A-N-EB Cst & =  
 39.50' Rt Sta 5167+08.23  
 I-10 Median Cst &  
 N = 475911.46  
 E = 971219.52

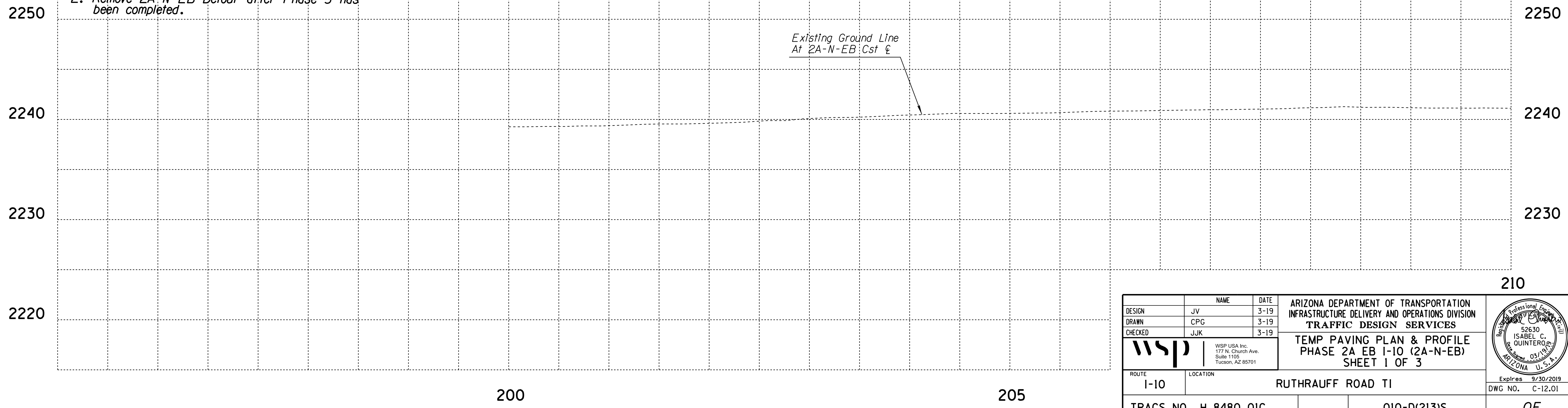
+45.95 (I-10 Med Cst &), 16.29' Lt  
 +80.57 (I-10 Med Cst &), 16.61' Lt  
 +94.56, 20.50' Lt

2A-1 S30°33'33"E S39°22'55"E

+53.82 (I-10 Med Cst &), 3.57' Rt

**NOTES:**

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Remove 2A-N-EB Detour after Phase 3 has been completed.



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> TEMP PAVING PLAN & PROFILE PHASE 2A EB I-10 (2A-N-EB) SHEET 1 OF 3	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		Expires 9/30/2019 DWG NO. C-12.01	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

**(2A-1) CURVE DATA**

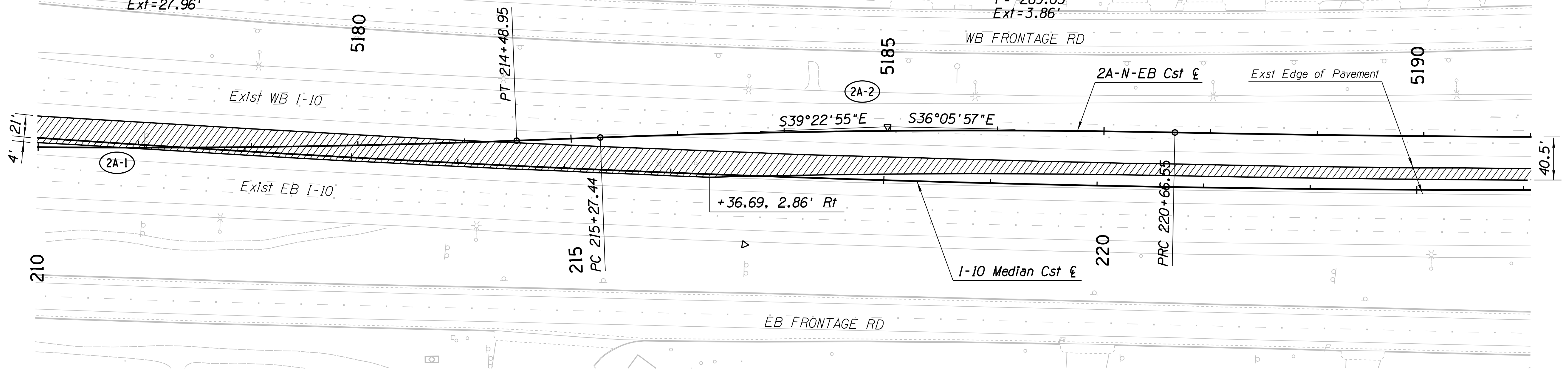
PI Sta 207+25.91  
 N = 475911.46  
 E = 971219.52  
  
 R = 9,410'  
 D = 0°36'32"  
 L = 1,448.95'  
 Δ = 8°49'21" Lt  
 T = 725.91'  
 Ext = 27.96'

**(2A-2) CURVE DATA**

PI Sta 217+97.07  
 N = 474456.22  
 E = 972270.04  
 R = 9,410'  
 D = 0°36'32"  
 L = 539.11'  
 Δ = 3°16'57" Rt  
 T = 269.63'  
 Ext = 3.86'

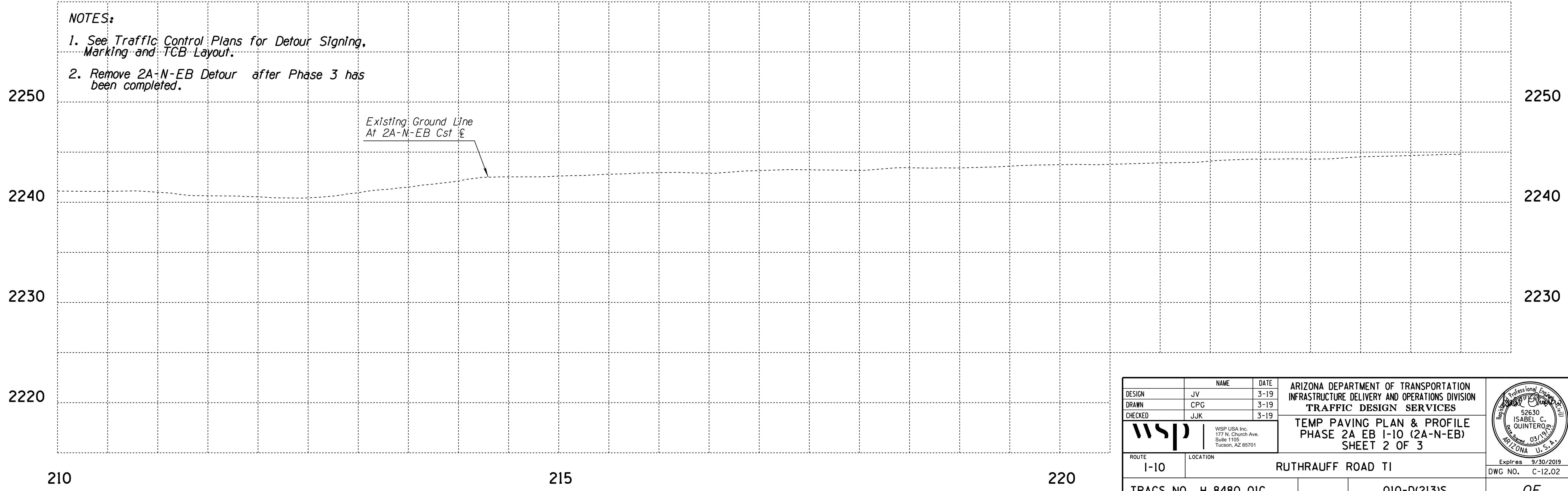
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	215	849	

010 PM 252



**NOTES:**

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Remove 2A-N-EB Detour after Phase 3 has been completed.



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES  <b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	52630 ISABEL C. QUINTERO 03/19/19 ARIZONA U.S.A.
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
ROUTE		LOCATION		TEMP PAVING PLAN & PROFILE PHASE 2A EB I-10 (2A-N-EB) SHEET 2 OF 3	
I-10		RUTHRAUFF ROAD TI		Expires 9/30/2019	
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. C-12.02	
				OF	

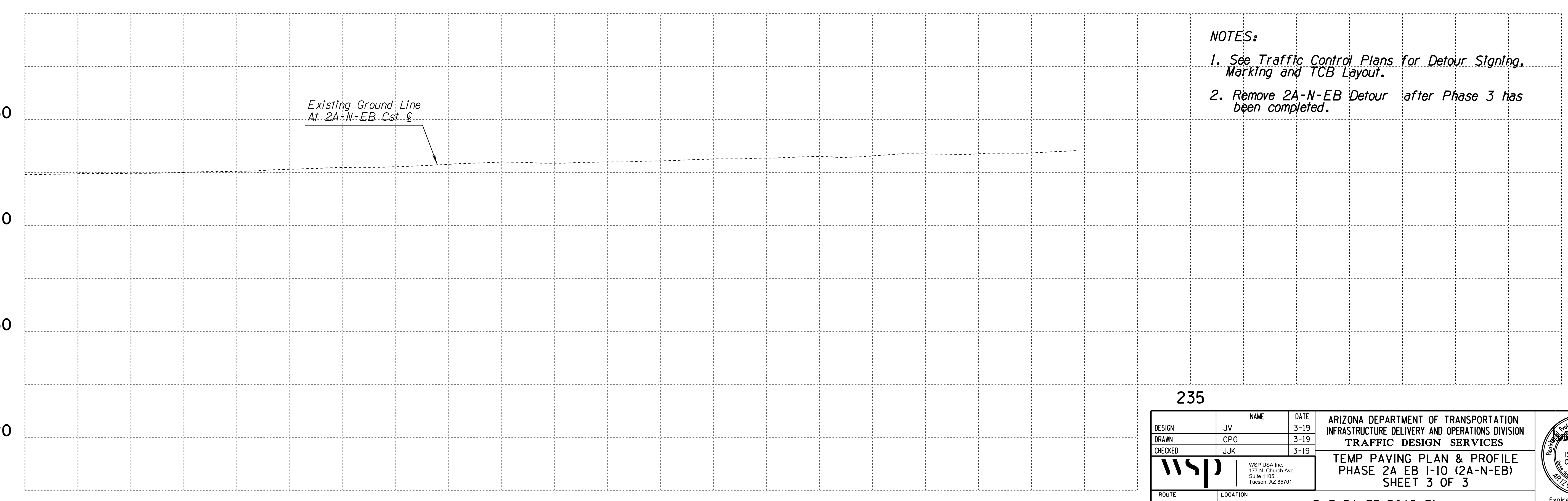
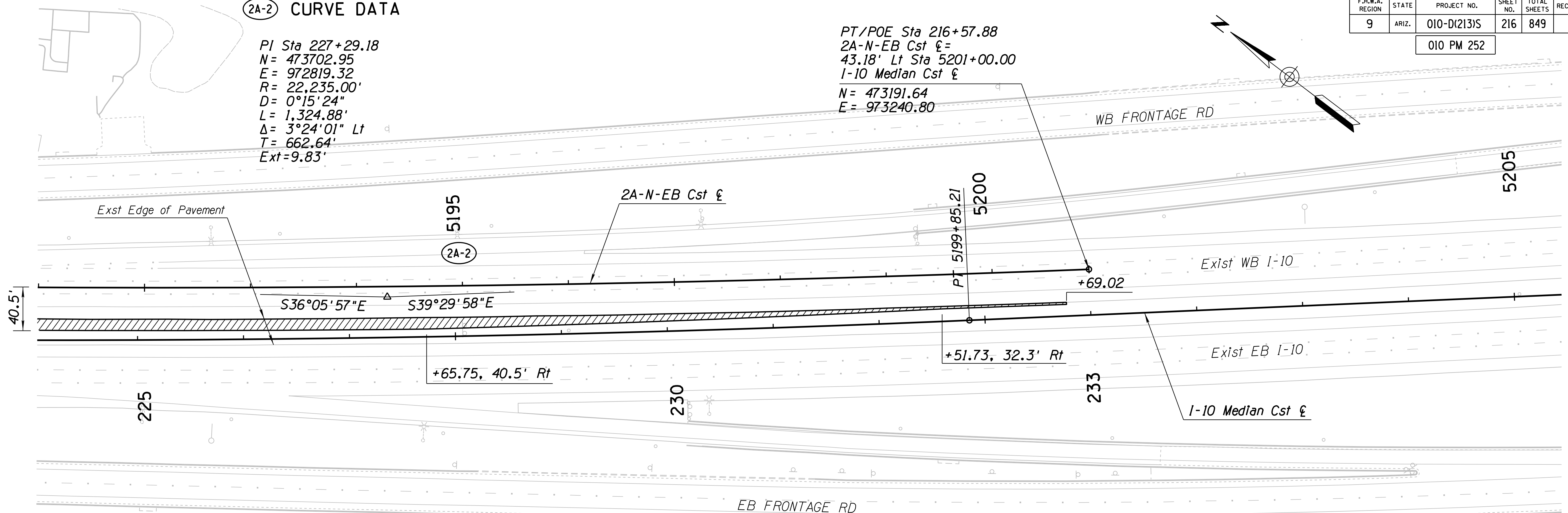
2A-2 CURVE DATA

PI Sta 227+29.18  
 N = 473702.95  
 E = 972819.32  
 R = 22,235.00'  
 D = 0°15'24"  
 L = 1,324.88'  
 Δ = 3°24'01" Lt  
 T = 662.64'  
 Ext = 9.83'

PT/POE Sta 216+57.88  
 2A-N-EB Cst  $\xi$  =  
 43.18' Lt Sta 5201+00.00  
 I-10 Median Cst  $\xi$   
 N = 473191.64  
 E = 973240.80

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	216	849	

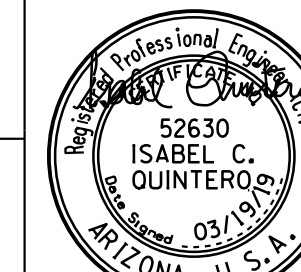
010 PM 252



NOTES:

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Remove 2A-N-EB Detour after Phase 3 has been completed.

DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES TEMP PAVING PLAN & PROFILE PHASE 2A EB I-10 (2A-N-EB) SHEET 3 OF 3
DRAWN		CPG	3-19	
CHECKED		JJK	3-19	
ROUTE		I-10		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701
LOCATION		RUTHRAUFF ROAD TI		
TRACS NO.		H 8480 OIC		Expires 9/30/2019 DWG NO. C-12.03
		010-D(213)S		OF



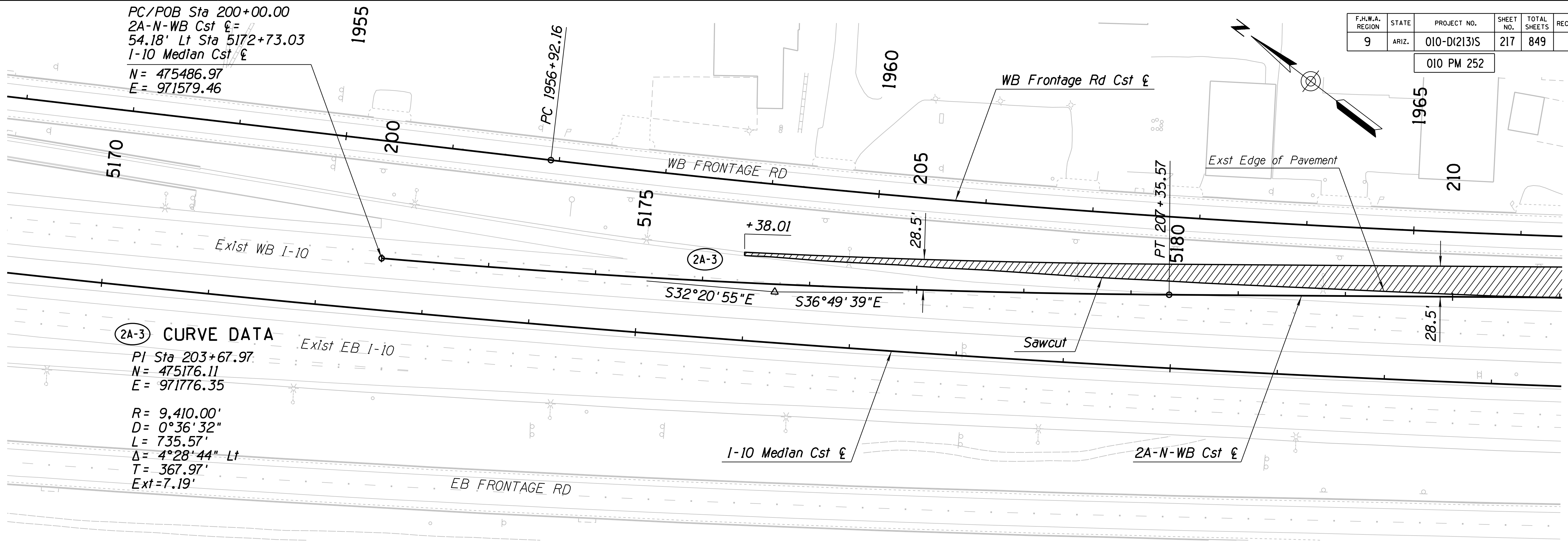
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	217	849	

010 PM 252

PC/POB Sta 200+00.00  
 2A-N-WB Cst  $\xi$  =  
 54.18' Lt Sta 5172+73.03  
 I-10 Median Cst  $\xi$   
 N = 475486.97  
 E = 971579.46

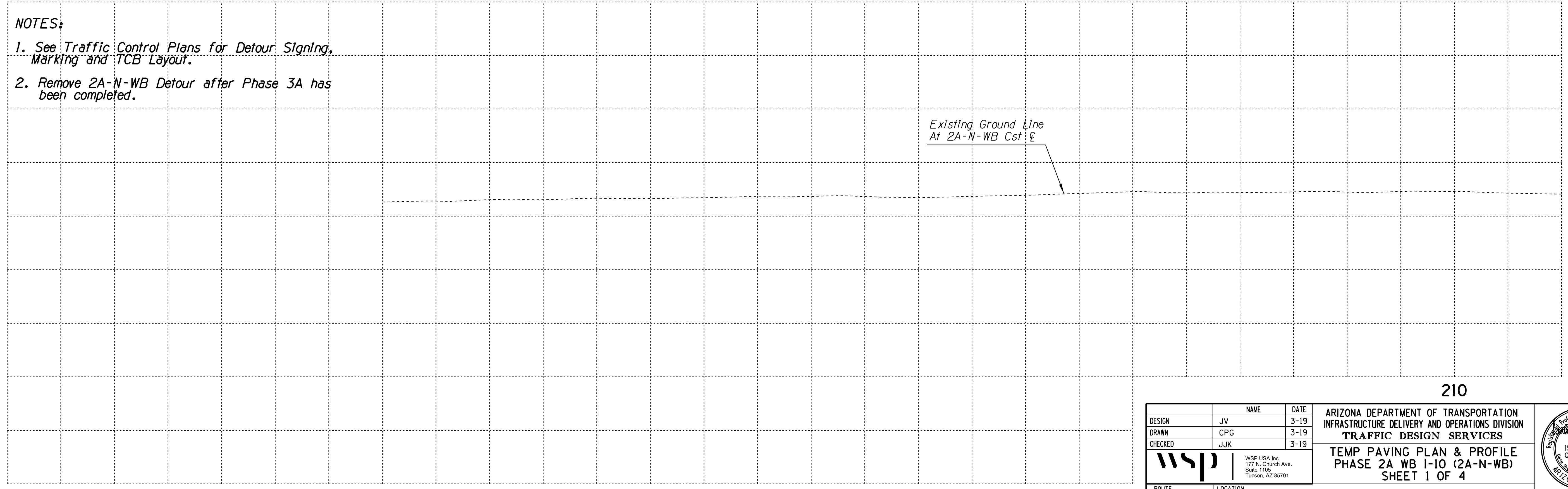
**(2A-3) CURVE DATA**

PI Sta 203+67.97  
 N = 475176.11  
 E = 971776.35  
  
 R = 9,410.00'  
 D = 0°36'32"  
 L = 735.57'  
 $\Delta$  = 4°28'44" Lt  
 T = 367.97'  
 Ext = 7.19'



**NOTES:**

1. See Traffic Control Plans for Detour, Signing, Marking and TCB Layout.
2. Remove 2A-N-WB Detour after Phase 3A has been completed.

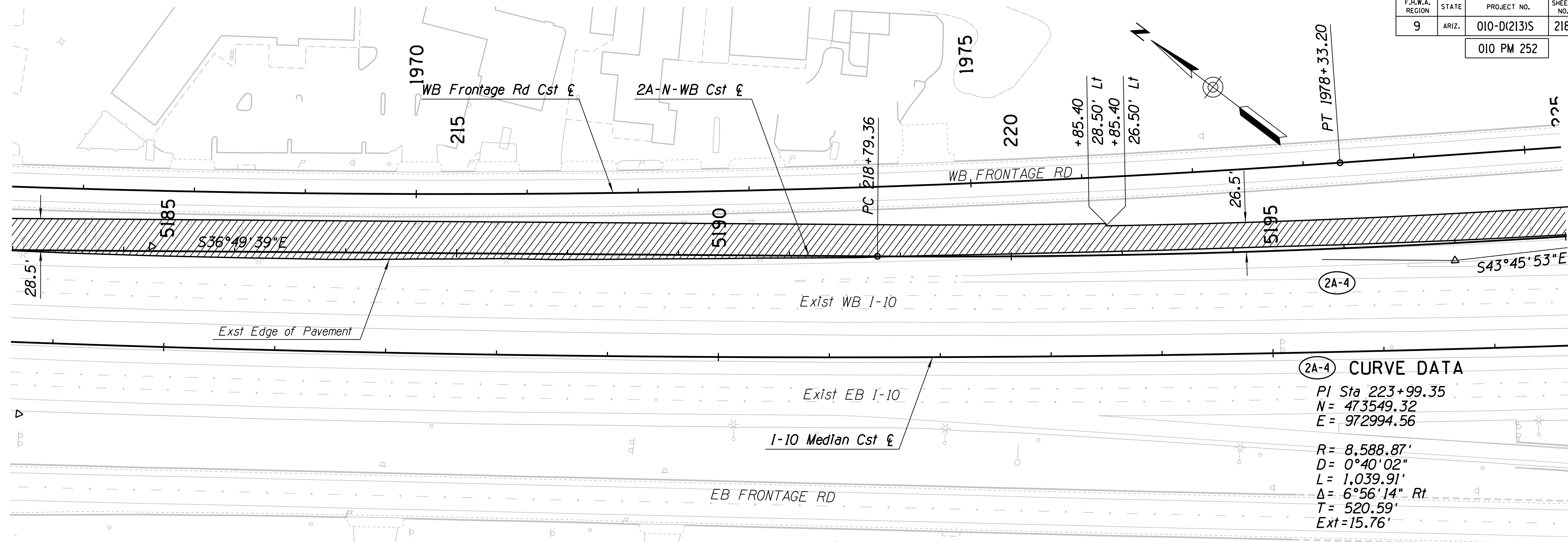


DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
ROUTE 1-10		LOCATION RUTHRAUFF ROAD TI		<b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 2A WB I-10 (2A-N-WB)</b> <b>SHEET 1 OF 4</b>	
TRACS NO. H 8480 OIC			010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	218	849	

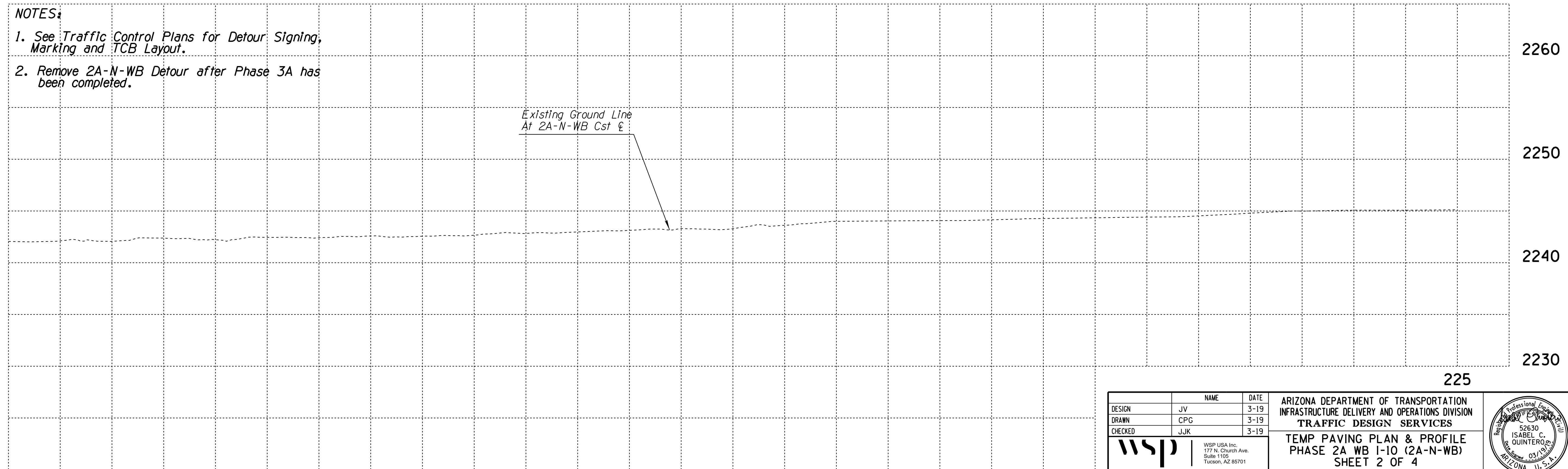
010 PM 252



**NOTES:**

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Remove 2A-N-WB Detour after Phase 3A has been completed.

Existing Ground Line  
At 2A-N-WB Cst



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 2A WB I-10 (2A-N-WB)</b> <b>SHEET 2 OF 4</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		Expires 9/30/2019 DWG NO. C-12.05	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	219	849	

010 PM 252

**(2A-4) CURVE DATA**

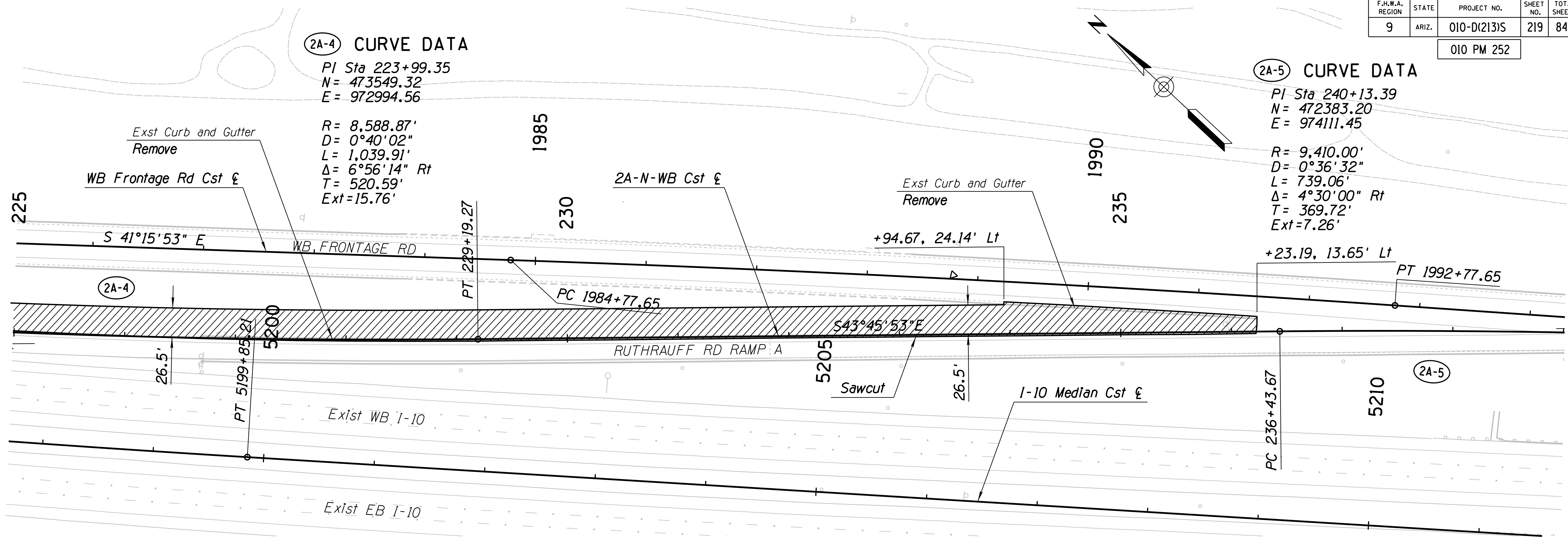
PI Sta 223+99.35  
 N = 473549.32  
 E = 972994.56

R = 8,588.87'  
 D = 0°40'02"  
 L = 1,039.91'  
 Δ = 6°56'14" Rt  
 T = 520.59'  
 Ext = 15.76'

**(2A-5) CURVE DATA**

PI Sta 240+13.39  
 N = 472383.20  
 E = 974111.45

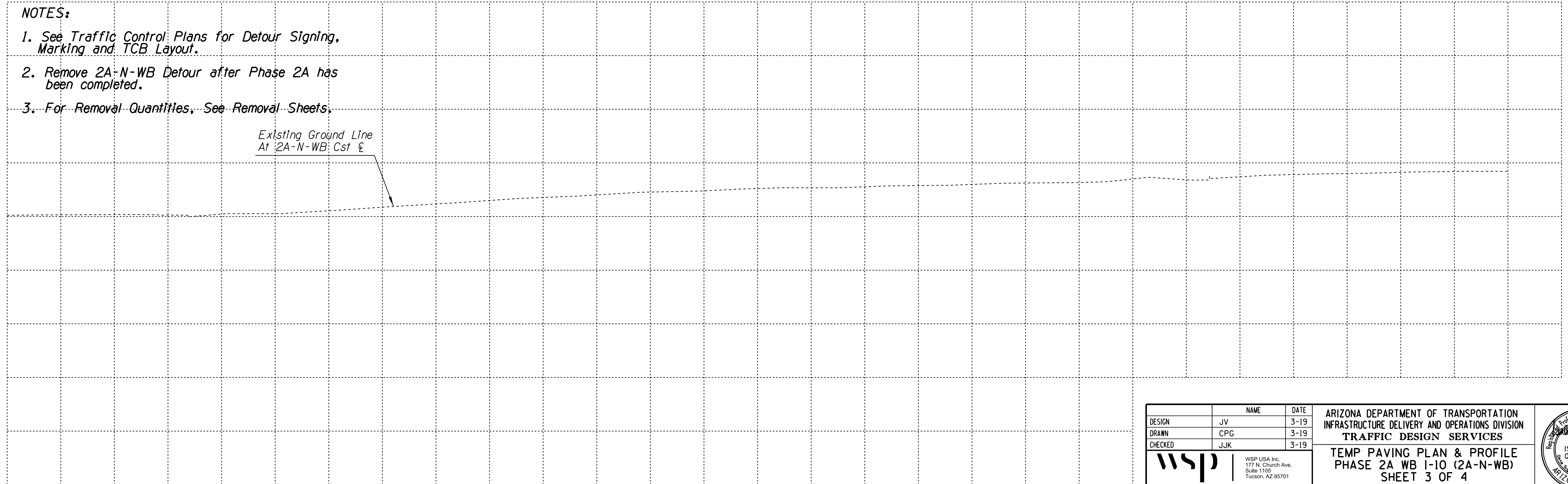
R = 9,410.00'  
 D = 0°36'32"  
 L = 739.06'  
 Δ = 4°30'00" Rt  
 T = 369.72'  
 Ext = 7.26'



**NOTES:**

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Remove 2A-N-WB Detour after Phase 2A has been completed.
3. For Removal Quantities, See Removal Sheets.

Existing Ground Line  
 At 2A-N-WB Cst



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> TEMP PAVING PLAN & PROFILE PHASE 2A WB I-10 (2A-N-WB) SHEET 3 OF 4	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-12.06 OF

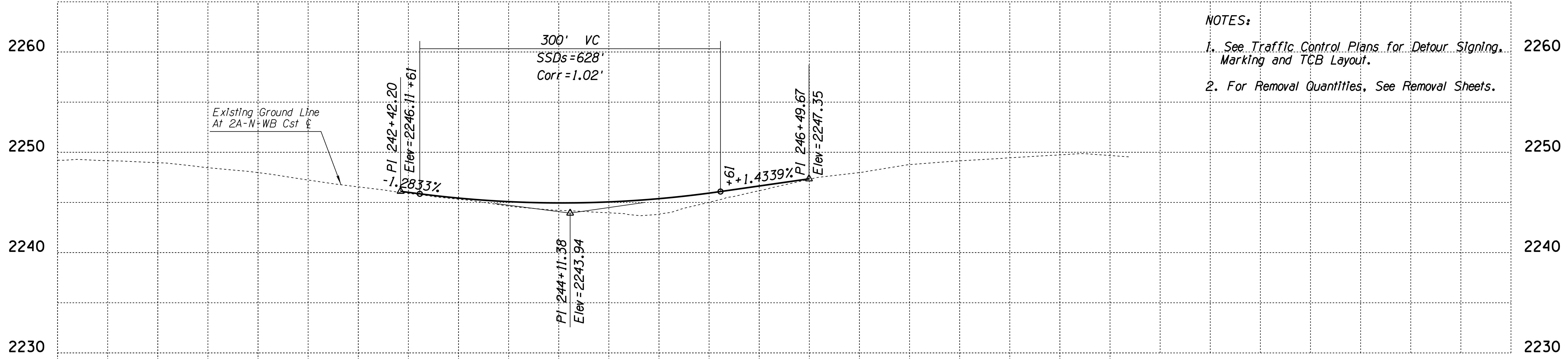
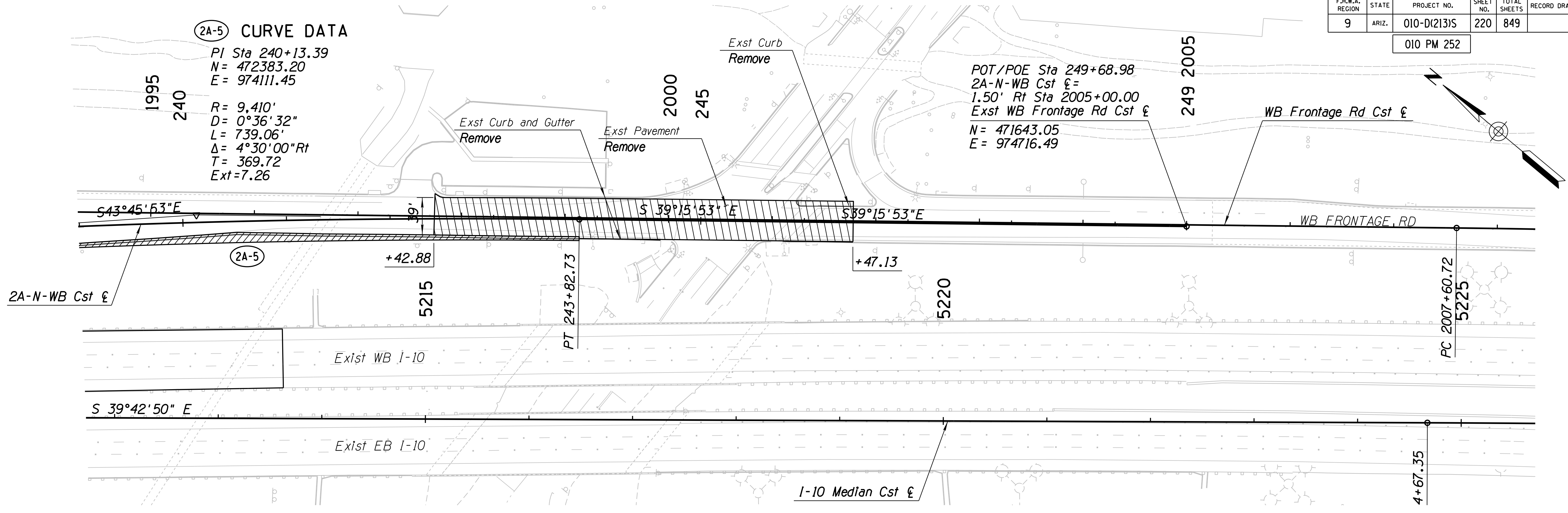
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	220	849	

010 PM 252

**(2A-5) CURVE DATA**

PI Sta 240+13.39  
 N = 472383.20  
 E = 974111.45  
 R = 9,410'  
 D = 0°36'32"  
 L = 739.06'  
 Δ = 4°30'00" Rt  
 T = 369.72  
 Ext = 7.26

POT/POE Sta 249+68.98  
 2A-N-WB Cst E =  
 1.50' Rt Sta 2005+00.00  
 Exst WB Frontage Rd Cst E  
 N = 471643.05  
 E = 974716.49

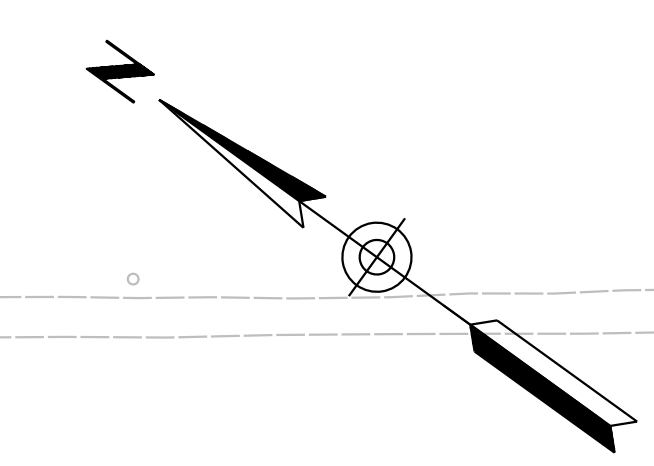


- NOTES:**
1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
  2. For Removal Quantities, See Removal Sheets.

DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
ROUTE		LOCATION		TEMP PAVING PLAN & PROFILE PHASE 2A WB I-10 (2A-N-WB) SHEET 4 OF 4	
I-10		RUTHRAUFF ROAD TI		Expires 9/30/2019 DWG NO. C-12.07	
TRACS NO. H 8480 OIC			010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	221	849	

010 PM 252

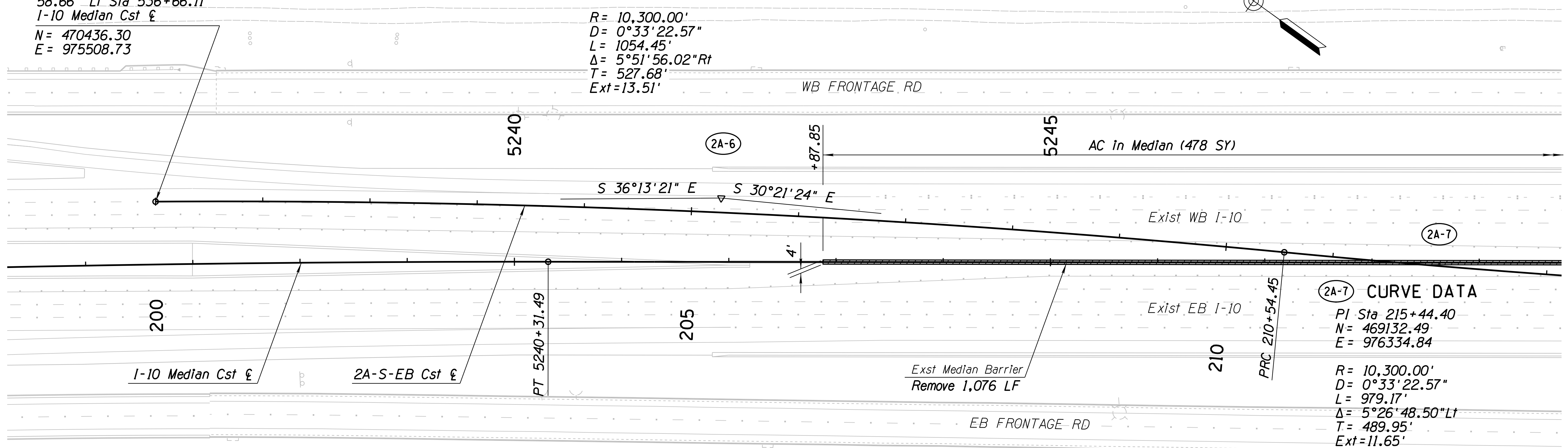


**(2A-6) CURVE DATA**

PI Sta 205+27.68  
 N = 470010.60  
 E = 975820.55

R = 10,300.00'  
 D = 0°33'22.57"  
 L = 1054.45'  
 Δ = 5°51'56.02" Rt  
 T = 527.68'  
 Ext = 13.51'

PC/POB Sta 200+00.00  
 2A-S-EB Cst  $\xi$  =  
 58.66' Lt Sta 536+66.11  
 I-10 Median Cst  $\xi$   
 N = 470436.30  
 E = 975508.73



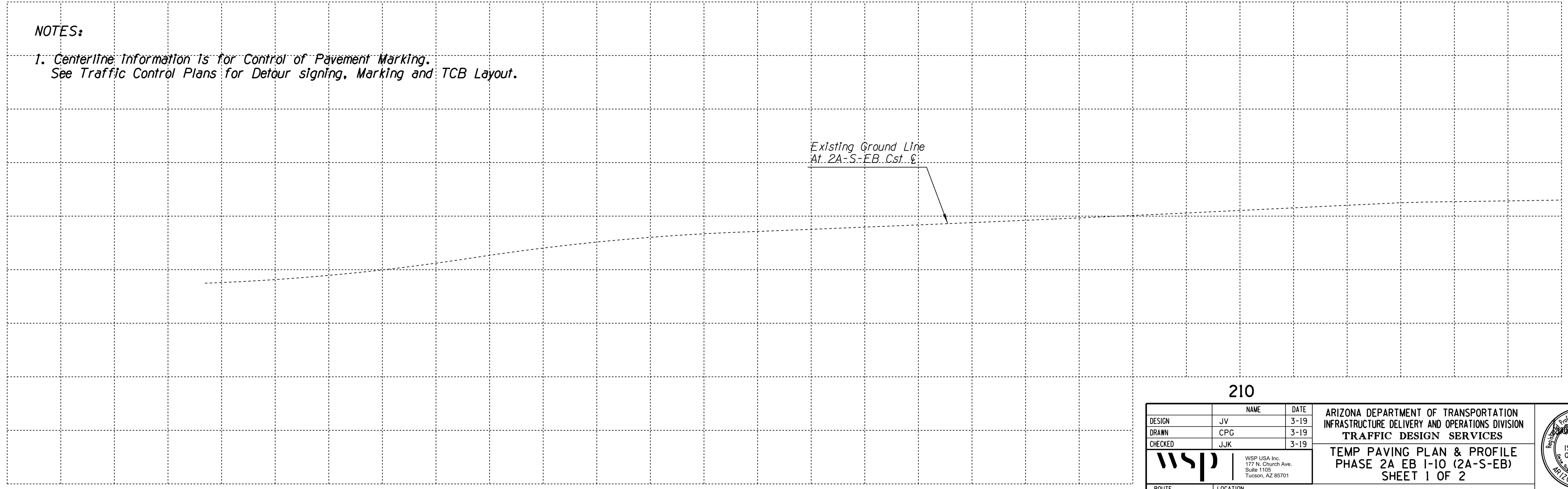
**(2A-7) CURVE DATA**

PI Sta 215+44.40  
 N = 469132.49  
 E = 976334.84

R = 10,300.00'  
 D = 0°33'22.57"  
 L = 979.17'  
 Δ = 5°26'48.50" Lt  
 T = 489.95'  
 Ext = 11.65'

**NOTES:**

- Centerline Information is for Control of Pavement Marking. See Traffic Control Plans for Detour signing, Marking and TCB Layout.

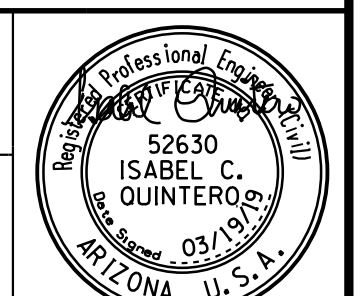


210

DESIGN	JV	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JJK	DATE	3-19

**wsp**  
 WSP USA, Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

ARIZONA DEPARTMENT OF TRANSPORTATION  
 INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
**TRAFFIC DESIGN SERVICES**  
 TEMP PAVING PLAN & PROFILE  
 PHASE 2A EB I-10 (2A-S-EB)  
 SHEET 1 OF 2



ROUTE	LOCATION	EXPIRES	DWG NO.
I-10	RUTHRAUFF ROAD TI	9/30/2019	C-12.08
TRACS NO. H 8480 OIC		010-D(213)S	

OF

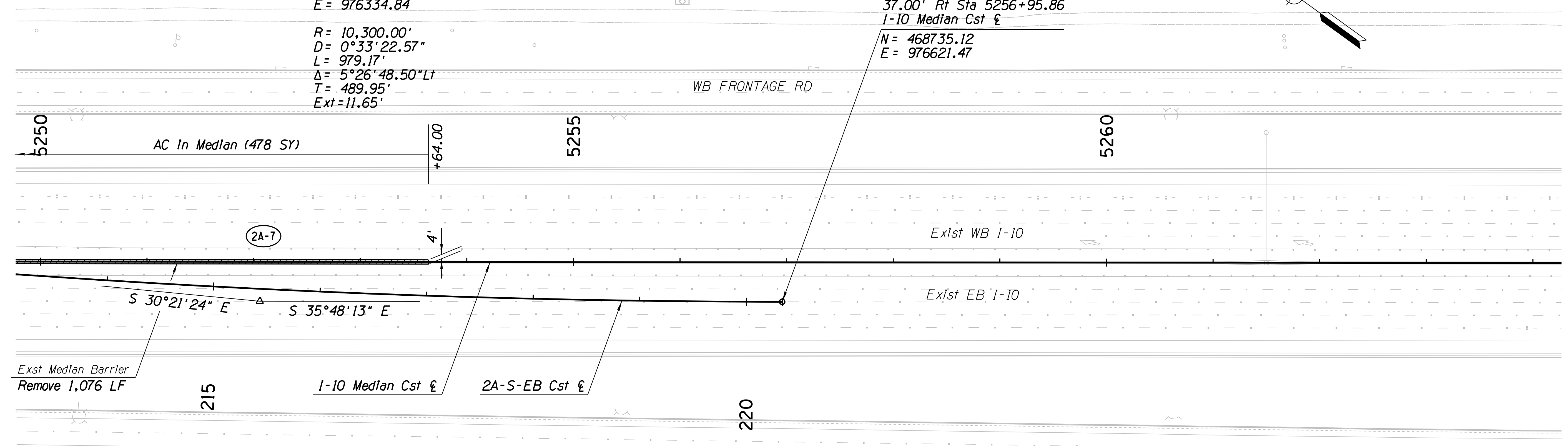
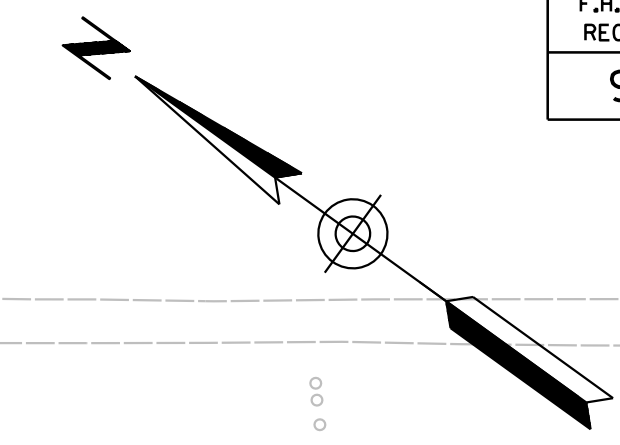
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	222	849	

010 PM 252

**2A-7 CURVE DATA**

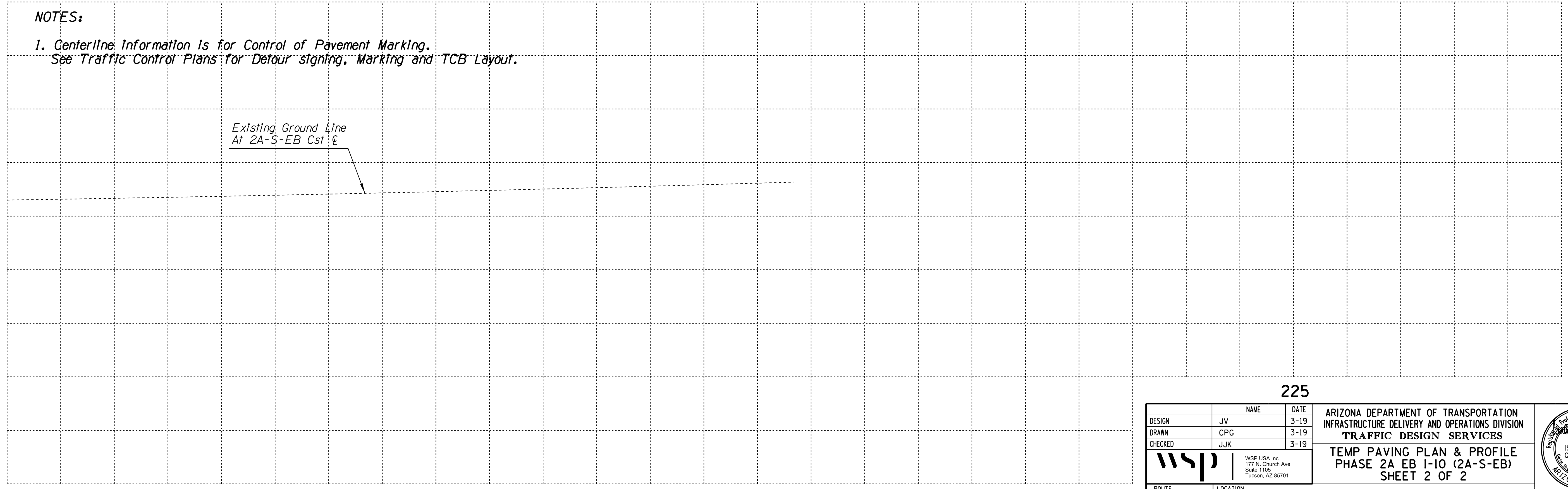
PI Sta 215+44.40  
 N = 469132.49  
 E = 976334.84  
  
 R = 10,300.00'  
 D = 0°33'22.57"  
 L = 979.17'  
 Δ = 5°26'48.50" Lt  
 T = 489.95'  
 Ext = 11.65'

PT/POE Sta 220+33.61  
 2A-S-EB Cst  $\xi$  =  
 37.00' Rt Sta 5256+95.86  
 I-10 Median Cst  $\xi$   
 N = 468735.12  
 E = 976621.47



**NOTES:**

1. Centerline information is for Control of Pavement Marking.  
 See Traffic Control Plans for Detour signing, Marking and TCB Layout.



225

DESIGN	JV	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b>  <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 2A EB I-10 (2A-S-EB)</b> <b>SHEET 2 OF 2</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		Expires 9/30/2019 DWG NO. C-12.09	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	223	849	

010 PM 252

**(2A-8) CURVE DATA**

PI Sta 205+46.96  
 N = 470144.62  
 E = 975836.99  
 R = 10,300.00'  
 D = 0°33'23"  
 L = 1092.90'  
 Δ = 6°04'54.52" Rt  
 T = 546.96'  
 Ext = 14.51'

2025

205

2020

2015

PC/POB Sta 200+00.00  
 2A-S-WB Cst  $\xi$  =  
 6.83' Rt Sta 2018+24.80  
 Extst WB Frontage Rd Cst  $\xi$   
 N = 470586.78  
 E = 975517.21

WB Frontage Rd Cst  $\xi$

2A-S-WB Cst  $\xi$

WB FRONTAGE RD

S 35°51'27" E

S 29°46'41" E

Sawcut

+99.40 (WB Frontage Rd Cst  $\xi$ )

210

Exst Curb and Gutter  
 Remove 975 LF\*  
 See Detail B

Exst WB I-10

+21.45 (I-10 Med Cst  $\xi$ )

I-10 Median Cst  $\xi$

Exst EB I-10

240+31.49

PT. 2014+41.85

PI 5232+49.72

5235

5240

5245

\* Curb and Gutter removed for Traffic Control purposes shall be replaced at the end of the project. See Detail B for removal and Replacement of Curb and Gutter along Frontage Rds. This work is paid under Item No. 2020167 Removal of Curb and Gutter (Detail B) and Item No. 9080089 Concrete Curb and Gutter (Detail B).

Existing Ground Line  
 At 2A-S-WB Cst  $\xi$

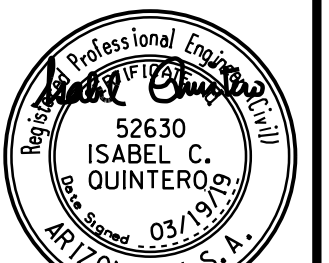
DESIGN	NAME	DATE
JV		3-19
DRAWN	CPG	3-19
CHECKED	JJK	3-19

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



WSP USA, Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

TEMP PAVING PLAN & PROFILE  
 PHASE 2A WB I-10 (2A-S-WB)  
 SHEET 1 OF 2

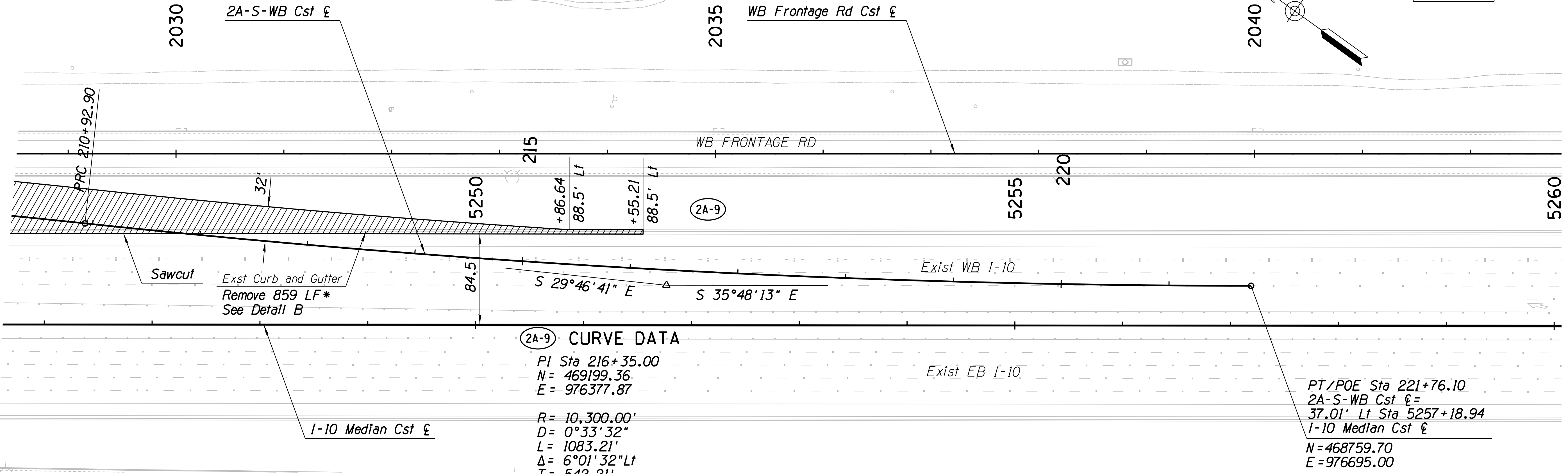
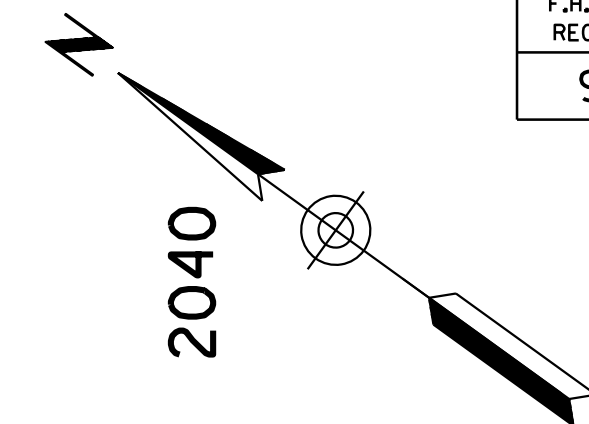


ROUTE	LOCATION	Expires
I-10	RUTHRAUFF ROAD TI	9/30/2019
TRACS NO. H 8480 OIC	010-D(213)S	DWG NO. C-12.10

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	224	849	

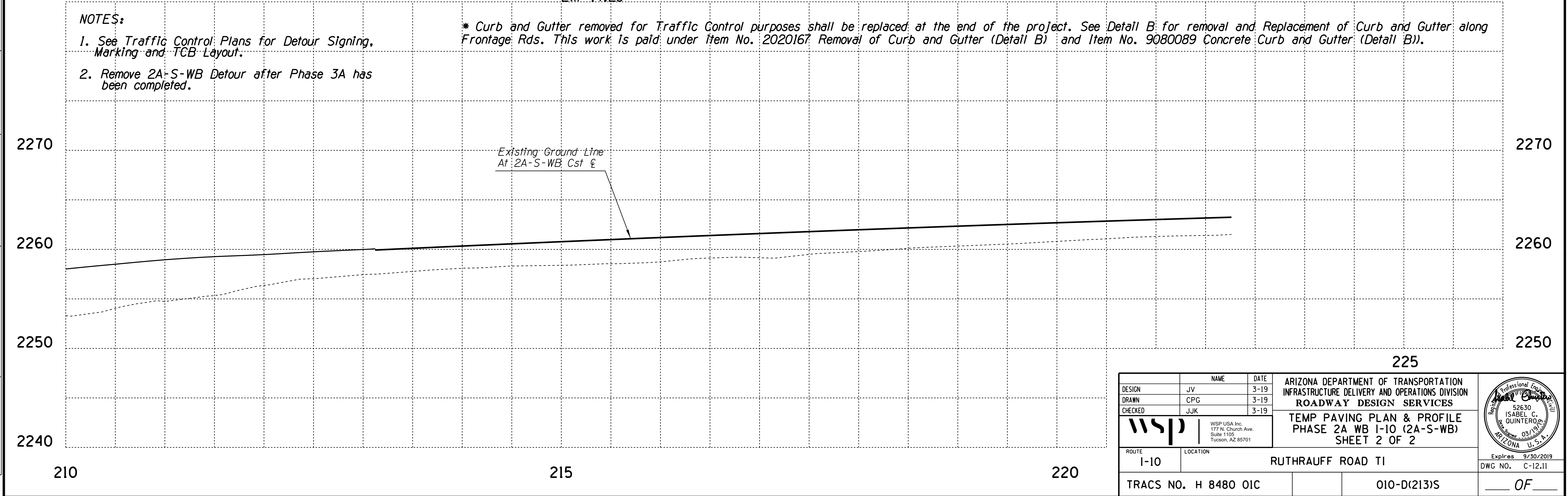
010 PM 252



**2A-9 CURVE DATA**  
 PI Sta 216+35.00  
 N= 469199.36  
 E= 976377.87  
 R= 10,300.00'  
 D= 0°33'32"  
 L= 1083.21'  
 Δ= 6°01'32" Lt  
 T= 542.21'  
 Ext=14.26'

PT/POE Sta 221+76.10  
 2A-S-WB Cst E=  
 37.01' Lt Sta 5257+18.94  
 I-10 Median Cst E  
 N=468759.70  
 E=976695.00

**NOTES:**  
 1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.  
 2. Remove 2A-S-WB Detour after Phase 3A has been completed.  
 \* Curb and Gutter removed for Traffic Control purposes shall be replaced at the end of the project. See Detail B for removal and Replacement of Curb and Gutter along Frontage Rds. This work is paid under Item No. 2020167 Removal of Curb and Gutter (Detail B) and Item No. 9080089 Concrete Curb and Gutter (Detail B)).



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 2A WB I-10 (2A-S-WB)</b> <b>SHEET 2 OF 2</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10		LOCATION RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-12.11 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	225	849	

010 PM 252

**3A-1 CURVE DATA**

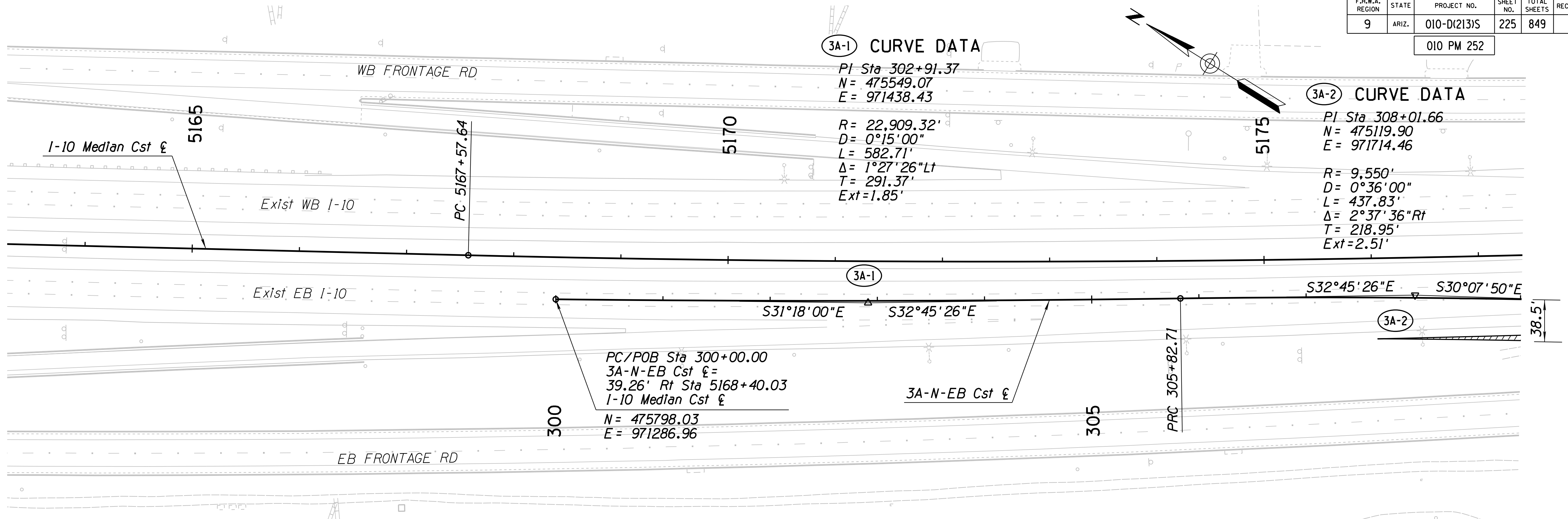
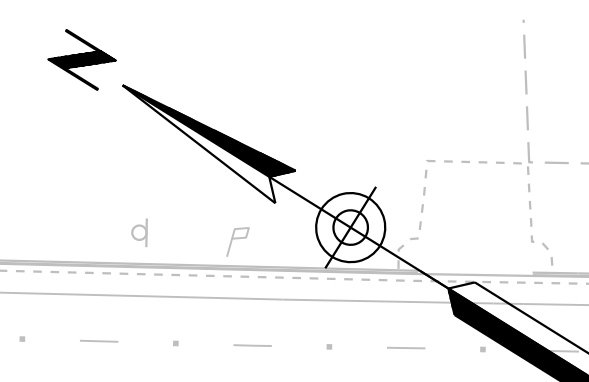
PI Sta 302+91.37  
 N = 475549.07  
 E = 971438.43

R = 22,909.32'  
 D = 0°15'00"  
 L = 582.71'  
 Δ = 1°27'26" Lt  
 T = 291.37'  
 Ext = 1.85'

**3A-2 CURVE DATA**

PI Sta 308+01.66  
 N = 475119.90  
 E = 971714.46

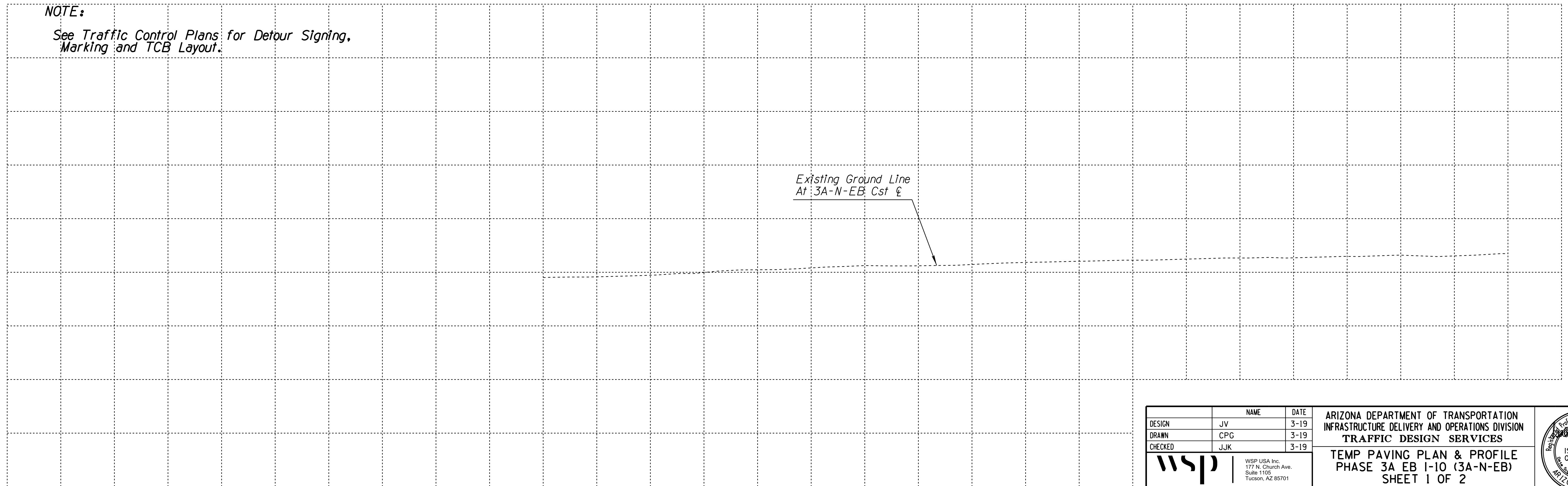
R = 9,550'  
 D = 0°36'00"  
 L = 437.83'  
 Δ = 2°37'36" Rt  
 T = 218.95'  
 Ext = 2.51'



PC/POB Sta 300+00.00  
 3A-N-EB Cst Δ = 39.26' Rt Sta 5168+40.03  
 I-10 Median Cst Δ  
 N = 475798.03  
 E = 971286.96

**NOTE:**

See Traffic Control Plans for Detour Signing, Marking and TCB Layout.

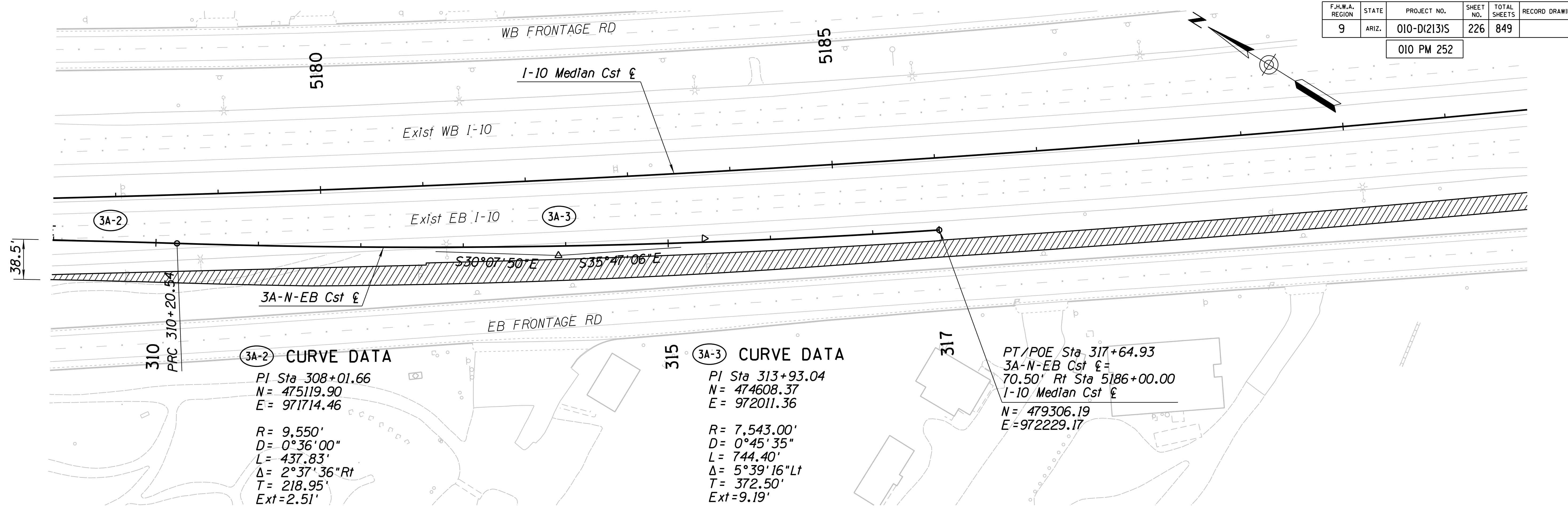


DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> TEMP PAVING PLAN & PROFILE PHASE 3A EB I-10 (3A-N-EB) SHEET 1 OF 2	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. C-12.12 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	226	849	

010 PM 252



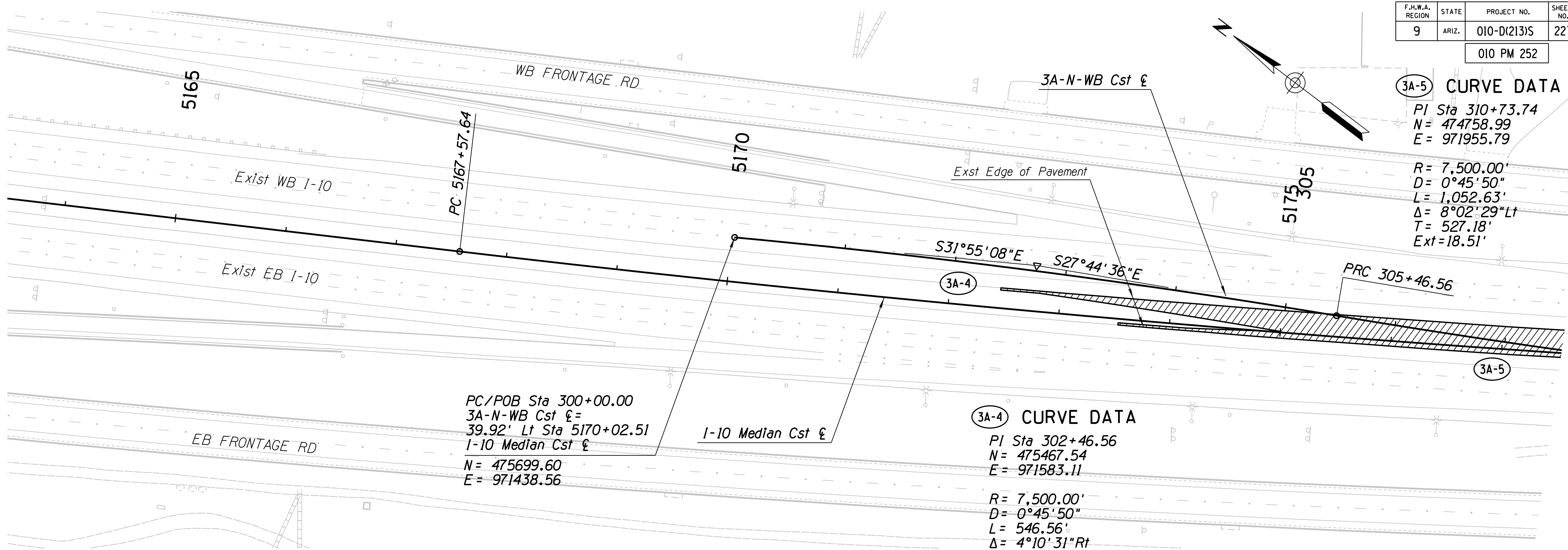
**NOTE:**  
 See Traffic Control Plans for Detour Signing, Marking and TCB Layout.

Existing Ground Line At 3A-N-EB Cst  $\xi$

DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
ROUTE		LOCATION		ARIZONA U.S.A. Expires 9/30/2019 DWG NO. C-12.13	
I-10		RUTHRAUFF ROAD TI		TRACS NO. H 8480 OIC 010-D(213)S OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	227	849	

010 PM 252



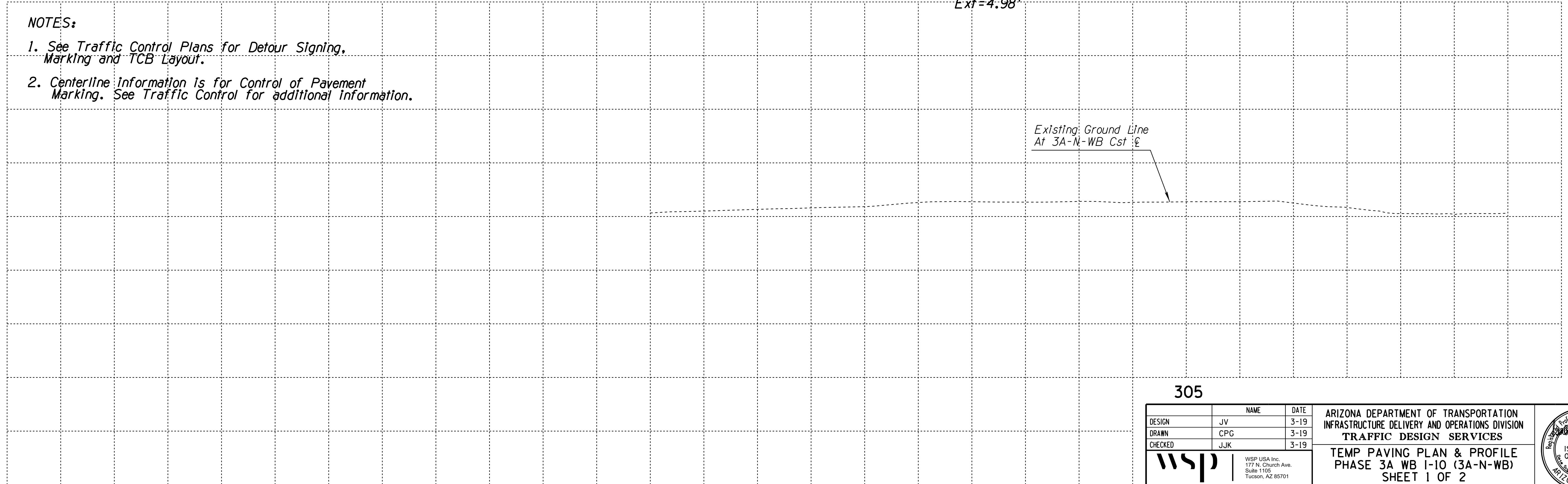
**3A-5 CURVE DATA**  
 PI Sta 310+73.74  
 N = 474758.99  
 E = 971955.79  
 R = 7,500.00'  
 D = 0°45'50"  
 L = 1,052.63'  
 Δ = 8°02'29" Lt  
 T = 527.18'  
 Ext = 18.51'

PC/POB Sta 300+00.00  
 3A-N-WB Cst  $\xi$  = 39.92' Lt Sta 5170+02.51  
 I-10 Median Cst  $\xi$   
 N = 475699.60  
 E = 971438.56

**3A-4 CURVE DATA**  
 PI Sta 302+46.56  
 N = 475467.54  
 E = 971583.11  
 R = 7,500.00'  
 D = 0°45'50"  
 L = 546.56'  
 Δ = 4°10'31" Rt  
 T = 273.40'  
 Ext = 4.98'

**NOTES:**

1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
2. Centerline Information is for Control of Pavement Marking. See Traffic Control for additional information.

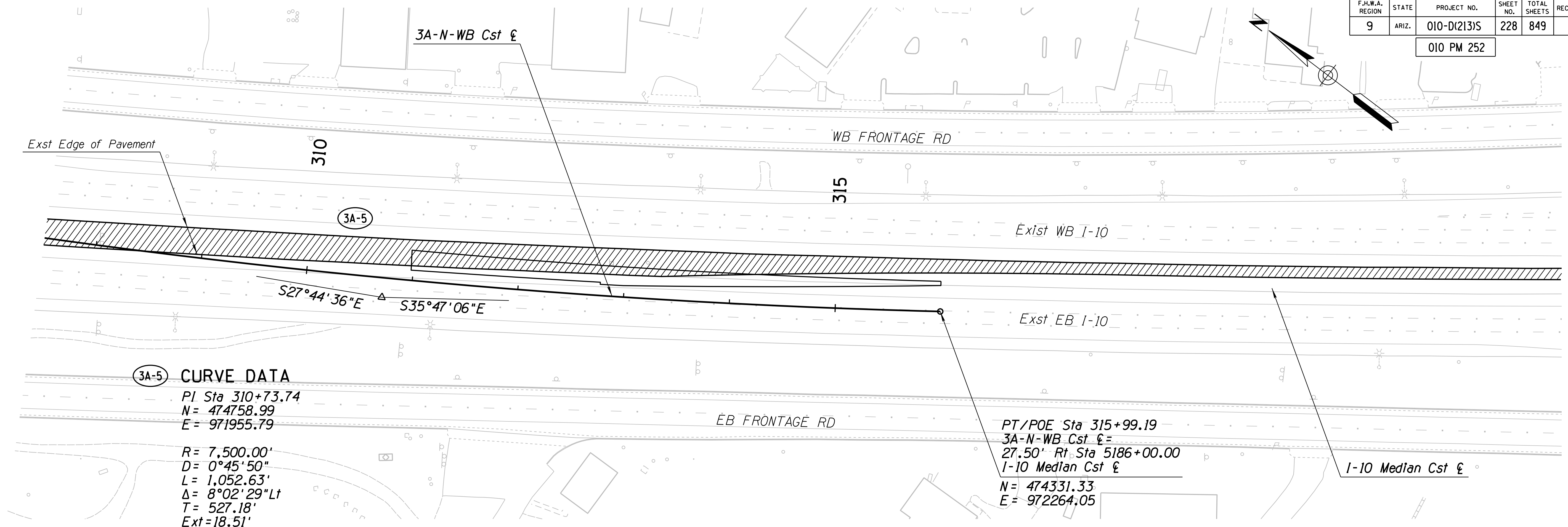


305

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
<b>TEMP PAVING PLAN &amp; PROFILE</b> PHASE 3A WB I-10 (3A-N-WB) SHEET 1 OF 2				Expires 9/30/2019 DWG NO. C-12.14	
ROUTE	LOCATION			RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	228	849	

010 PM 252



**3A-5 CURVE DATA**  
 PI Sta 310+73.74  
 N= 474758.99  
 E= 971955.79  
  
 R= 7,500.00'  
 D= 0°45'50"  
 L= 1,052.63'  
 Δ= 8°02'29"Lt  
 T= 527.18'  
 Ext=18.51'

PT/POE Sta 315+99.19  
 3A-N-WB Cst £=  
 27.50' Rt Sta 5186+00.00  
 I-10 Median Cst £  
  
 N= 474331.33  
 E= 972264.05

- NOTES:**
1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
  2. Centerline information is for Control of Pavement Marking. See Traffic Control for additional information.

Existing Ground Line  
 At 3A-N-WB Cst £

ROUTE		LOCATION		320	
I-10		RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC		010-D(213)S		OF	

DESIGN	JV	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JJK	DATE	3-19

**WSP** WSP USA Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

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

**TEMP PAVING PLAN & PROFILE  
 PHASE 3A WB I-10 (3A-N-WB)  
 SHEET 2 OF 2**

Professional Engineer  
 ISABEL C. QUINTERO  
 License No. 52630  
 Expires 9/30/2019  
 DWG NO. C-12.15

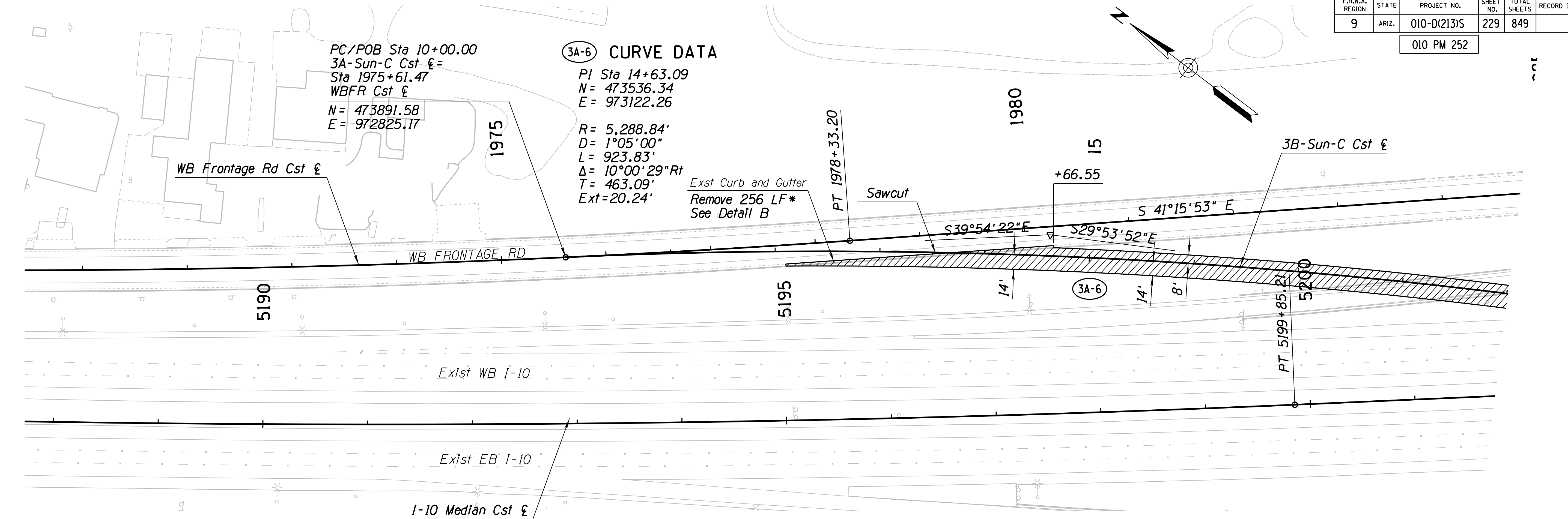
DATE LOCATION REVISIONS FINISHED PLANS SURVEY NO. DATE LOCATION REVISIONS FINISHED PLANS SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	229	849	

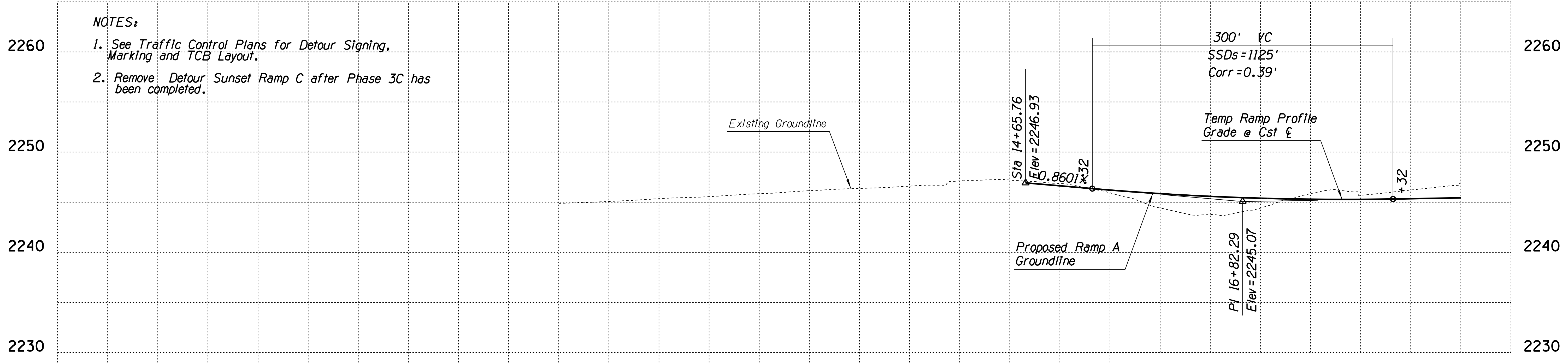
010 PM 252

PC/POB Sta 10+00.00  
 3A-Sun-C Cst £=  
 Sta 1975+61.47  
 WBFR Cst £  
 N = 473891.58  
 E = 972825.17

**3A-6 CURVE DATA**  
 PI Sta 14+63.09  
 N = 473536.34  
 E = 973122.26  
 R = 5,288.84'  
 D = 1°05'00"  
 L = 923.83'  
 Δ = 10°00'29" Rt  
 T = 463.09'  
 Ext = 20.24'



- NOTES:**
1. See Traffic Control Plans for Detour Signing, Marking and TCB Layout.
  2. Remove Detour Sunset Ramp C after Phase 3C has been completed.



\* Curb and Gutter removed for Traffic Control purposes shall be replaced at the end of the project. See Detail B for removal and Replacement of Curb and Gutter along Frontage Rds. This work is paid under Item No. 2020167 Removal of Curb and Gutter (Detail B) and Item No. 9080089 Concrete Curb and Gutter (Detail B). Curb and Gutter (Detail B). Curb and Gutter (Detail B). Curb and Gutter (Detail B).

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PH 3B SUNSET RAMP C (3B-SUN-C)</b> <b>SHEET 1 OF 2</b>
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	

**wsp** WSP USA Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

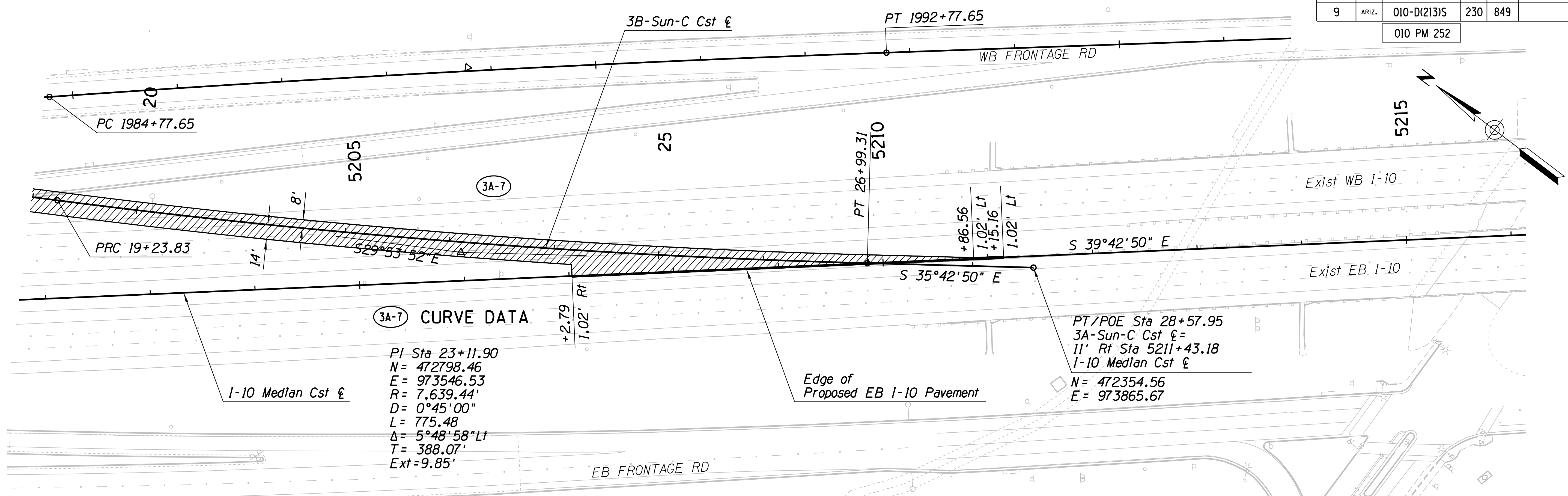
ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC 010-D(213)S OF

Expires 9/30/2019  
 DWG NO. C-12.16

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	230	849	

010 PM 252

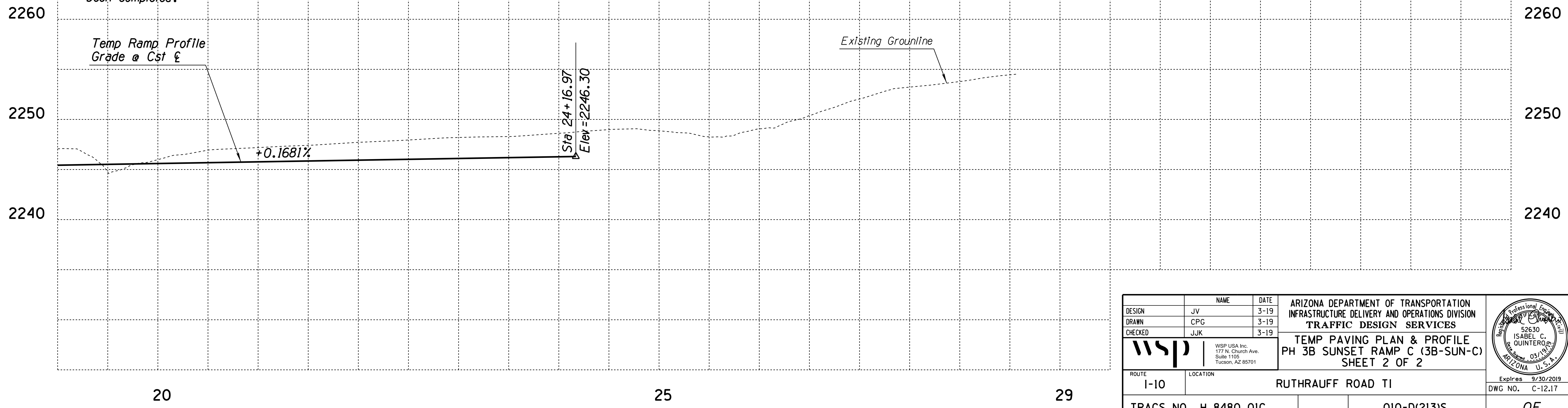


**3A-7 CURVE DATA**  
 PI Sta 23+11.90  
 N = 472798.46  
 E = 973546.53  
 R = 7,639.44'  
 D = 0°45'00"  
 L = 775.48  
 Δ = 5°48'58" Lt  
 T = 388.07'  
 Ext = 9.85'

PT/POE Sta 28+57.95  
 3A-Sun-C Cst =  
 11' Rt Sta 5211+43.18  
 I-10 Median Cst =  
 N = 472354.56  
 E = 973865.67

**NOTES:**

1. See Traffic Control Plans for Detour, Signing, Marking and TCB Layout.
2. Remove Detour Sunset Ramp C after Phase 3C has been completed.

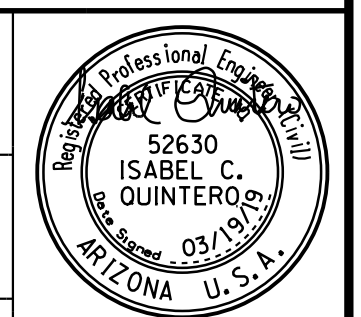


DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PH 3B SUNSET RAMP C (3B-SUN-C)</b> <b>SHEET 2 OF 2</b>
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	

**wsp** WSP USA, Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

ROUTE	LOCATION	EXPIRES
I-10	RUTHRAUFF ROAD TI	9/30/2019
TRACS NO. H 8480 OIC	010-D(213)S	DWG NO. C-12.17

OF

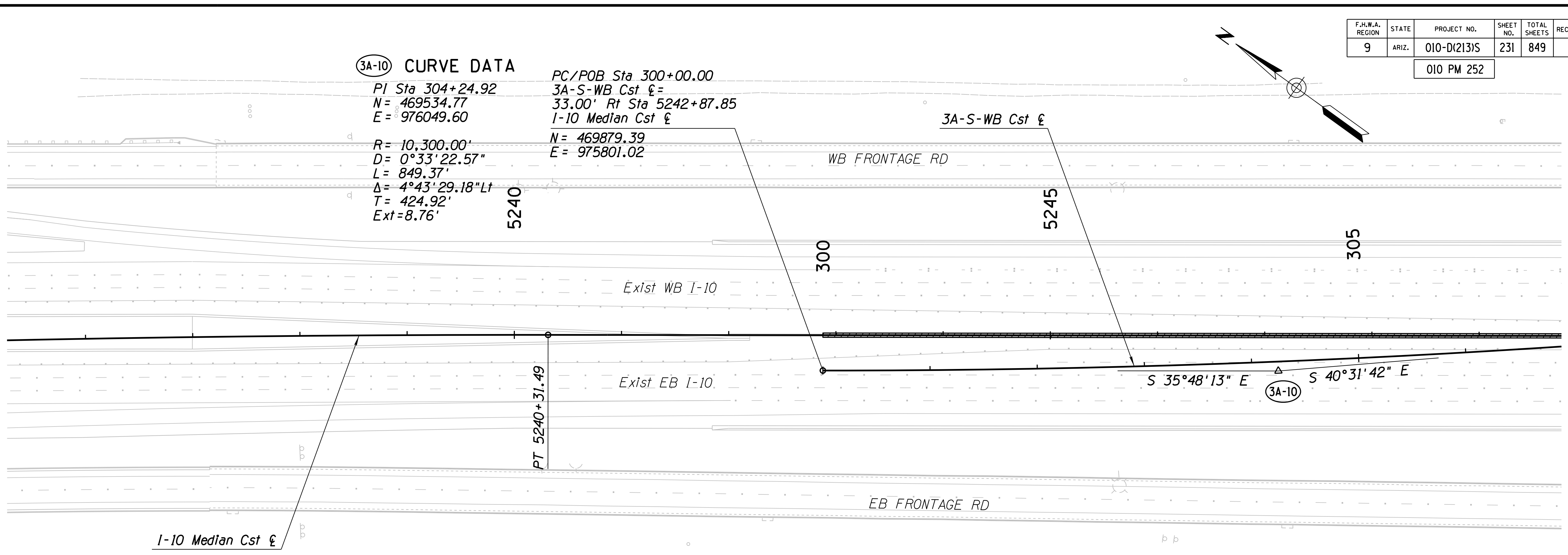


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	231	849	

010 PM 252

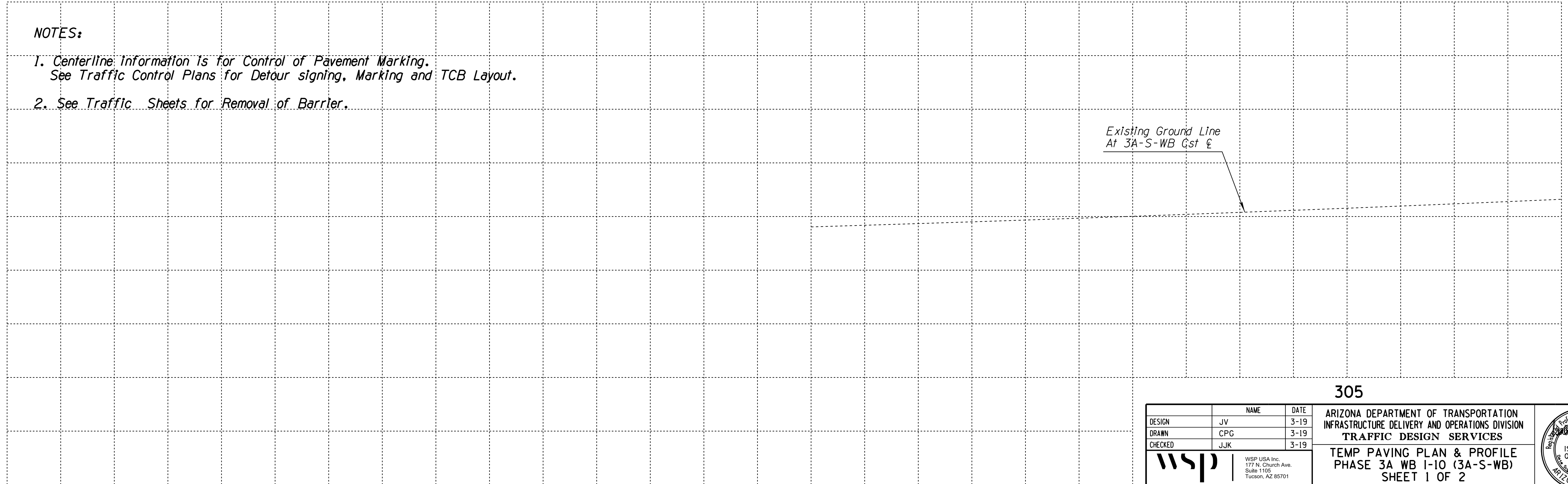
**(3A-10) CURVE DATA**  
 PI Sta 304+24.92  
 N = 469534.77  
 E = 976049.60  
 R = 10,300.00'  
 D = 0°33'22.57"  
 L = 849.37'  
 Δ = 4°43'29.18" Lt  
 T = 424.92'  
 Ext = 8.76'

PC/POB Sta 300+00.00  
 3A-S-WB Cst £ =  
 33.00' Rt Sta 5242+87.85  
 I-10 Median Cst £  
 N = 469879.39  
 E = 975801.02



**NOTES:**

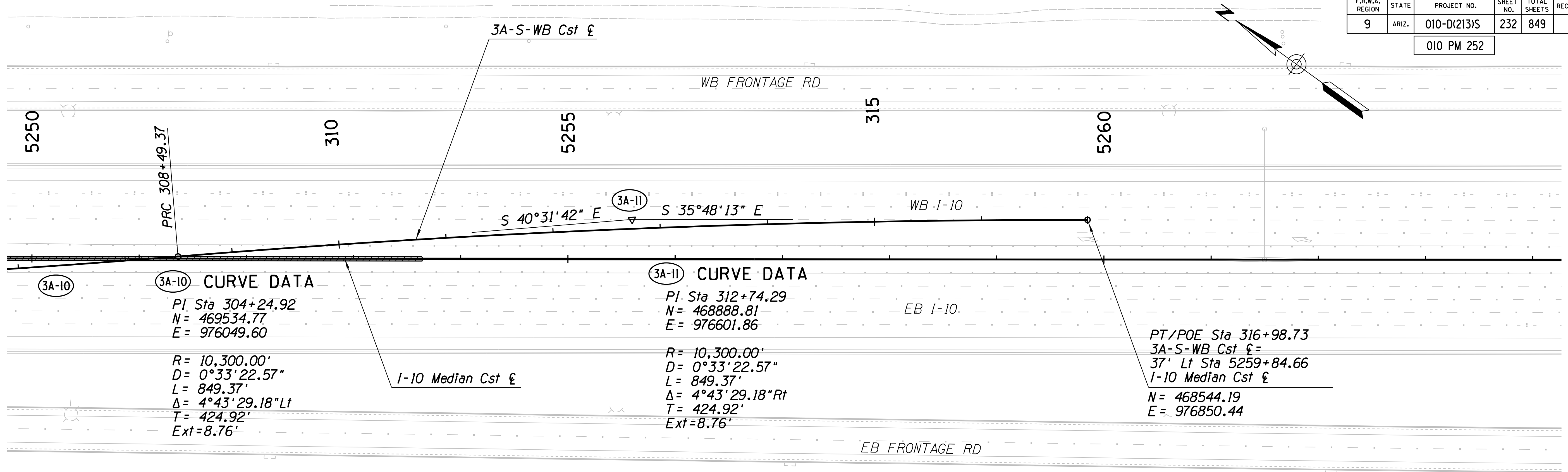
- Centerline Information Is for Control of Pavement Marking. See Traffic Control Plans for Detour signing, Marking and TCB Layout.
- See Traffic Sheets for Removal of Barrier.



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 3A WB I-10 (3A-S-WB)</b> <b>SHEET 1 OF 2</b>
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2019 DWG NO. C-12.18 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	232	849	

010 PM 252



3A-10

**3A-10 CURVE DATA**  
 PI Sta 304+24.92  
 N = 469534.77  
 E = 976049.60  
  
 R = 10,300.00'  
 D = 0°33'22.57"  
 L = 849.37'  
 Δ = 4°43'29.18" Lt  
 T = 424.92'  
 Ext = 8.76'

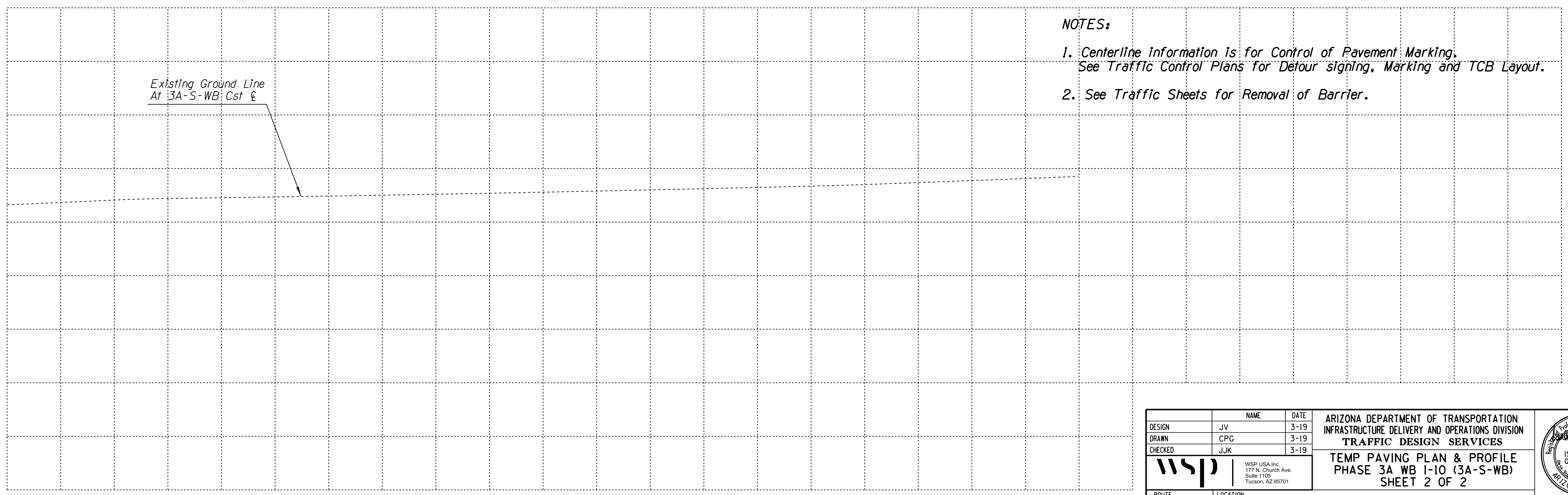
3A-11

**3A-11 CURVE DATA**  
 PI Sta 312+74.29  
 N = 468888.81  
 E = 976601.86  
  
 R = 10,300.00'  
 D = 0°33'22.57"  
 L = 849.37'  
 Δ = 4°43'29.18" Rt  
 T = 424.92'  
 Ext = 8.76'

PT/POE Sta 316+98.73  
 3A-S-WB Cst £ =  
 37' Lt Sta 5259+84.66  
 I-10 Median Cst £  
 N = 468544.19  
 E = 976850.44

**NOTES:**

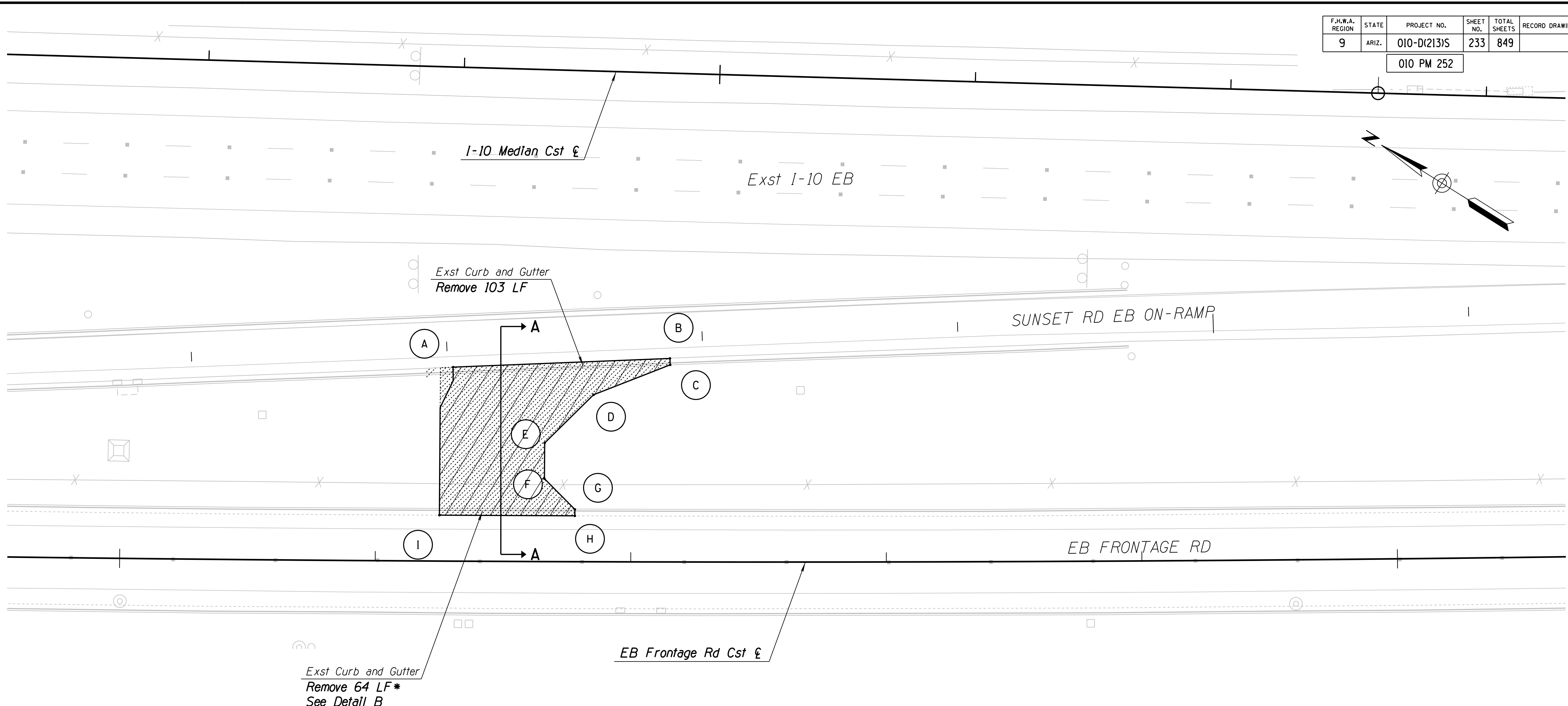
- Centerline Information is for Control of Pavement Marking. See Traffic Control Plans for Detour signing, Marking and TCB Layout.
- See Traffic Sheets for Removal of Barrier.



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b>  <b>TEMP PAVING PLAN &amp; PROFILE</b> <b>PHASE 3A WB I-10 (3A-S-WB)</b> <b>SHEET 2 OF 2</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE <b>I-10</b>	LOCATION <b>RUTHRAUFF ROAD TI</b>
TRACS NO. H 8480 OIC			010-D(213)S		Expires 9/30/2019 DWG NO. C-12.19 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	233	849	

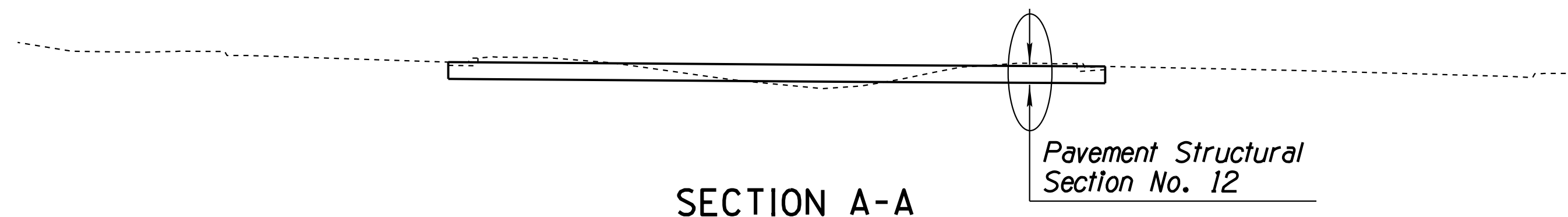
010 PM 252



DETOUR CONTROL POINTS				
Point	Roadway	Station	Offset	Elevation
A	EBFR Cst	1946+25.08	75.71' Lt	2237.55'
B	EBFR Cst	1947+15.18	79.67' Lt	2238.03'
C	EBFR Cst	1947+13.11	76.43' Lt	2238.00'
D	EBFR Cst	1946+85.24	65.39' Lt	2237.79'
E	EBFR Cst	1946+66.13	46.45' Lt	2237.56'
F	EBFR Cst	1946+66.09	32.45' Lt	2237.45'
G	EBFR Cst	1946+78.07	20.47' Lt	2237.41'
H	EBFR Cst	1946+78.06	17.97' Lt	2237..39'
I	EBFR Cst	1946+25.02	17.97' Lt	2237.25'

NOTES:

- See Traffic Control Plans for Detour Signing, Marking and TCB Layout.



\* Curb and Gutter removed for Traffic Control purposes shall be replaced at the end of the project. See Detail B for removal and Replacement of Curb and Gutter along Frontage Rds. This work is paid under Item No. 2020167 Removal of Curb and Gutter (Detail B) and Item No. 9080089 Concrete Curb and Gutter (Detail B).

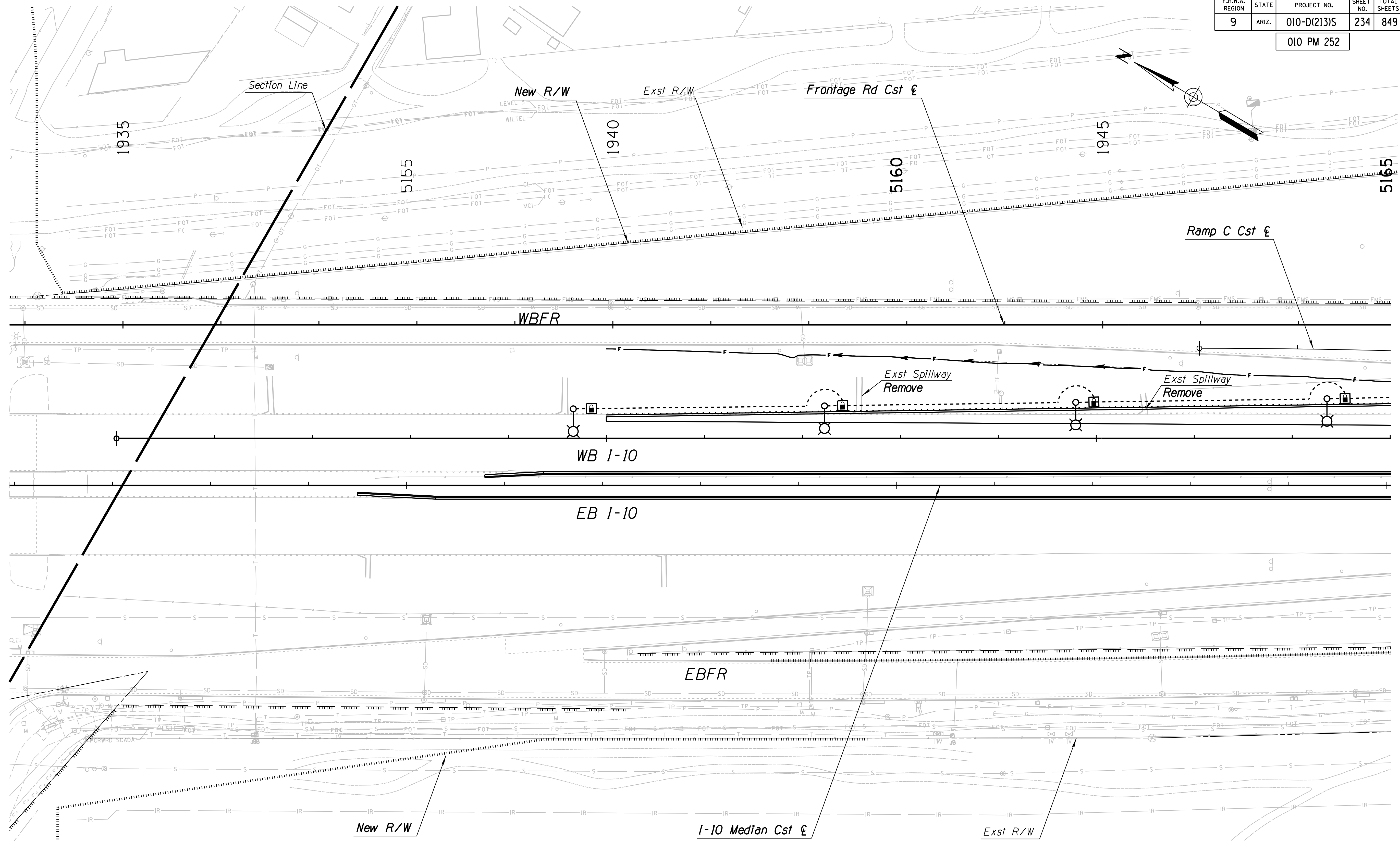
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		HOOK DETOUR	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					Expires 9/30/2019 DWG NO. C-12.20 OF

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	234	849	

010 PM 252



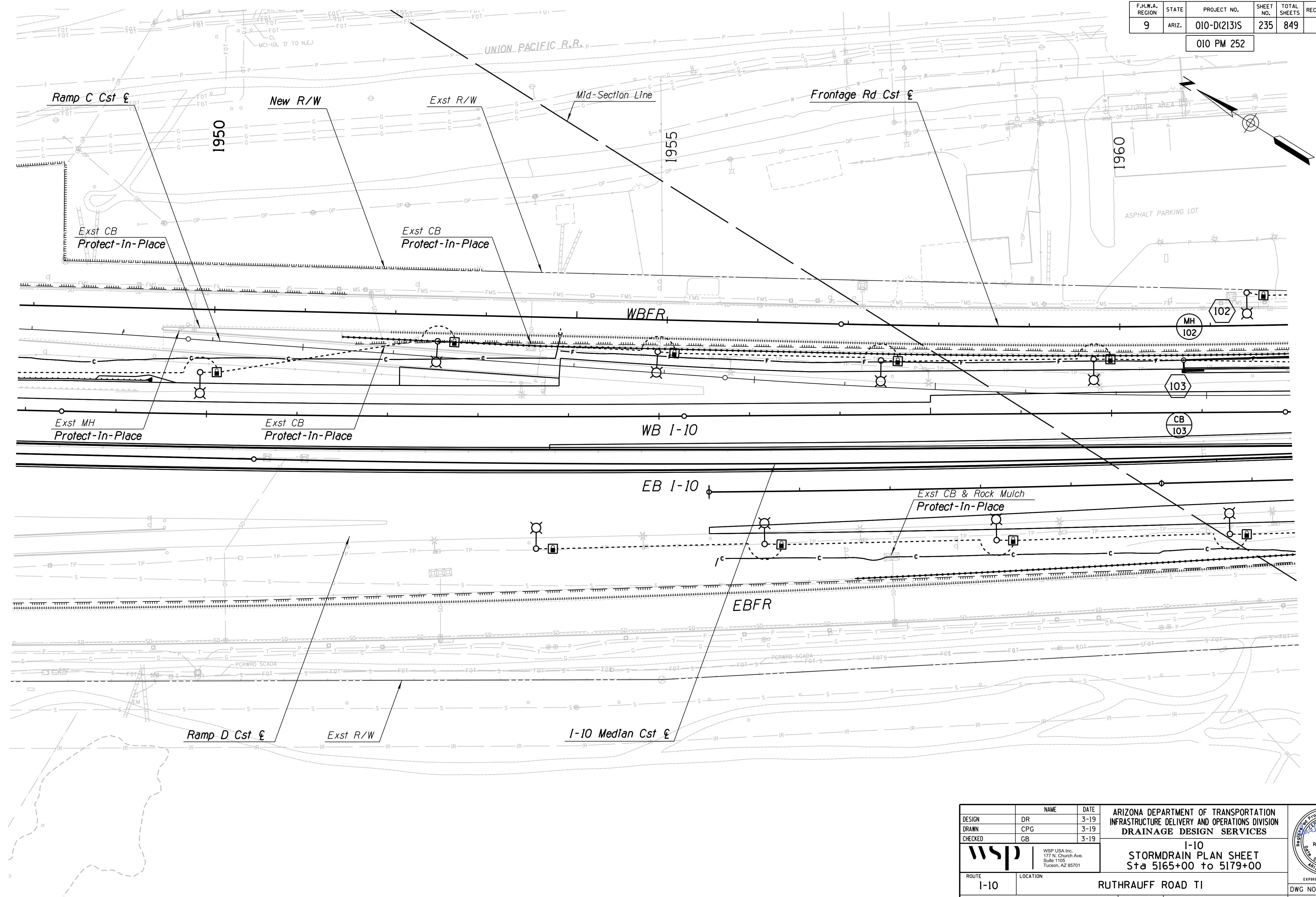
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO.

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>I-10          STORMDRAIN PLAN SHEET          Sta 5151+00 to 5165+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		DWG NO. D-1.01 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	235	849	

010 PM 252

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

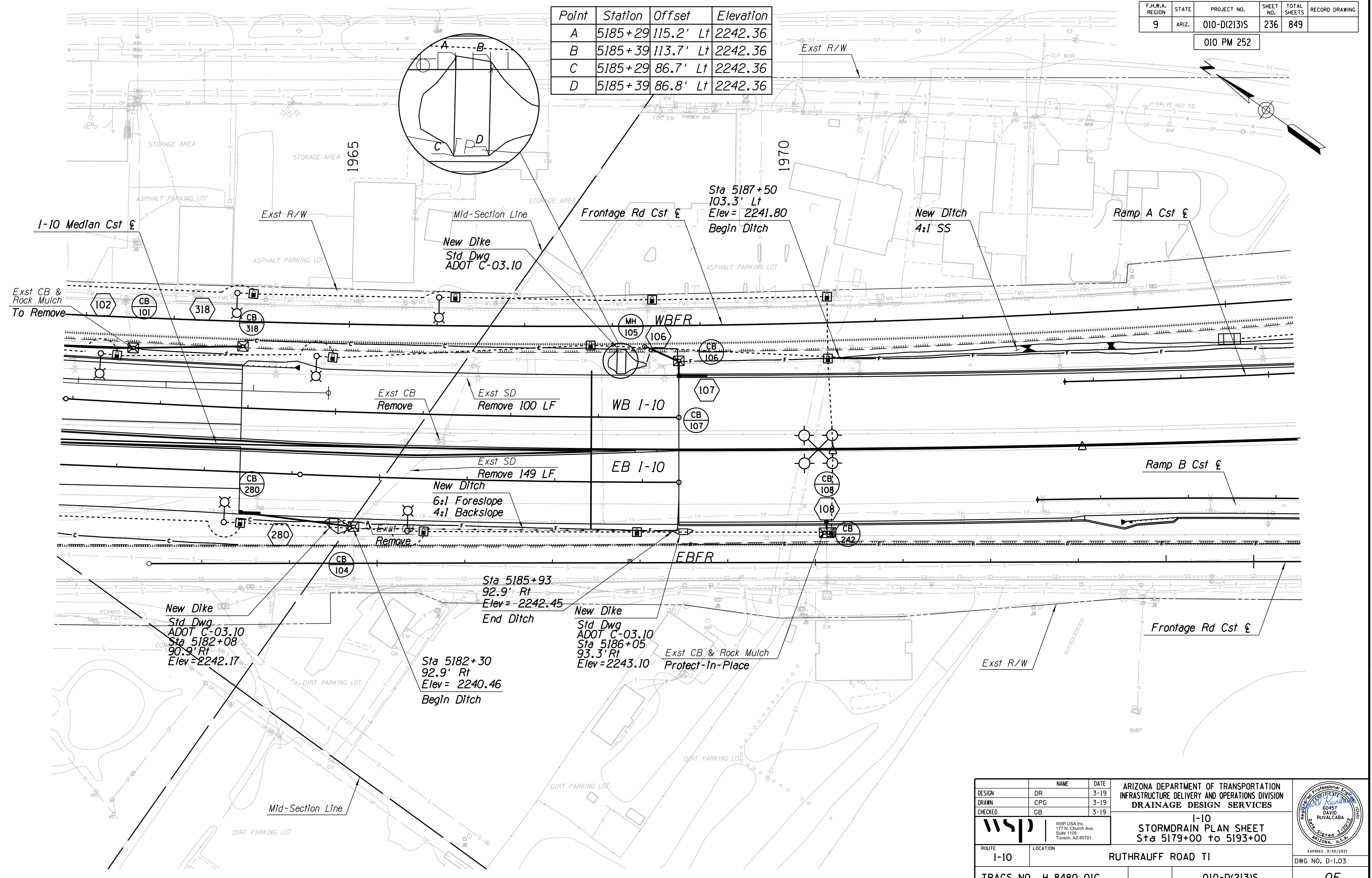
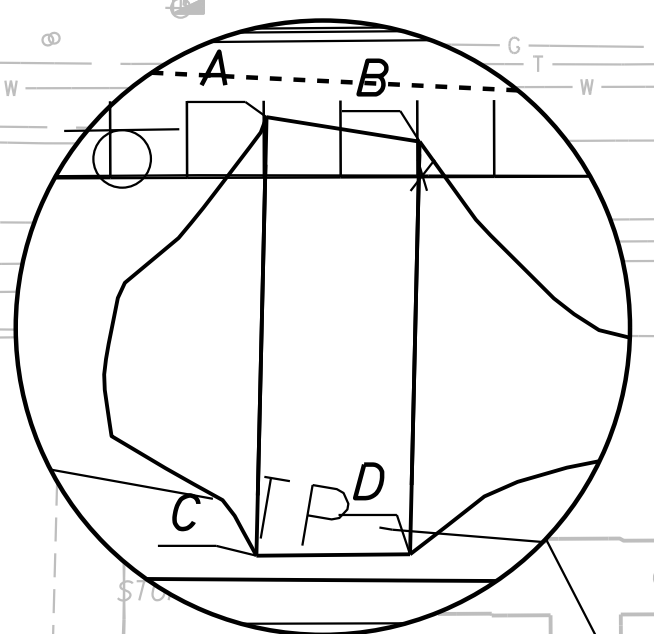


DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>I-10</b> <b>STORMDRAIN PLAN SHEET</b> <b>Sta 5165+00 to 5179+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					EXPIRES 9/30/2021 DWG NO. D-1.02 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	236	849	

010 PM 252

Point	Station	Offset	Elevation
A	5185+29	115.2' Lt	2242.36
B	5185+39	113.7' Lt	2242.36
C	5185+29	86.7' Lt	2242.36
D	5185+39	86.8' Lt	2242.36



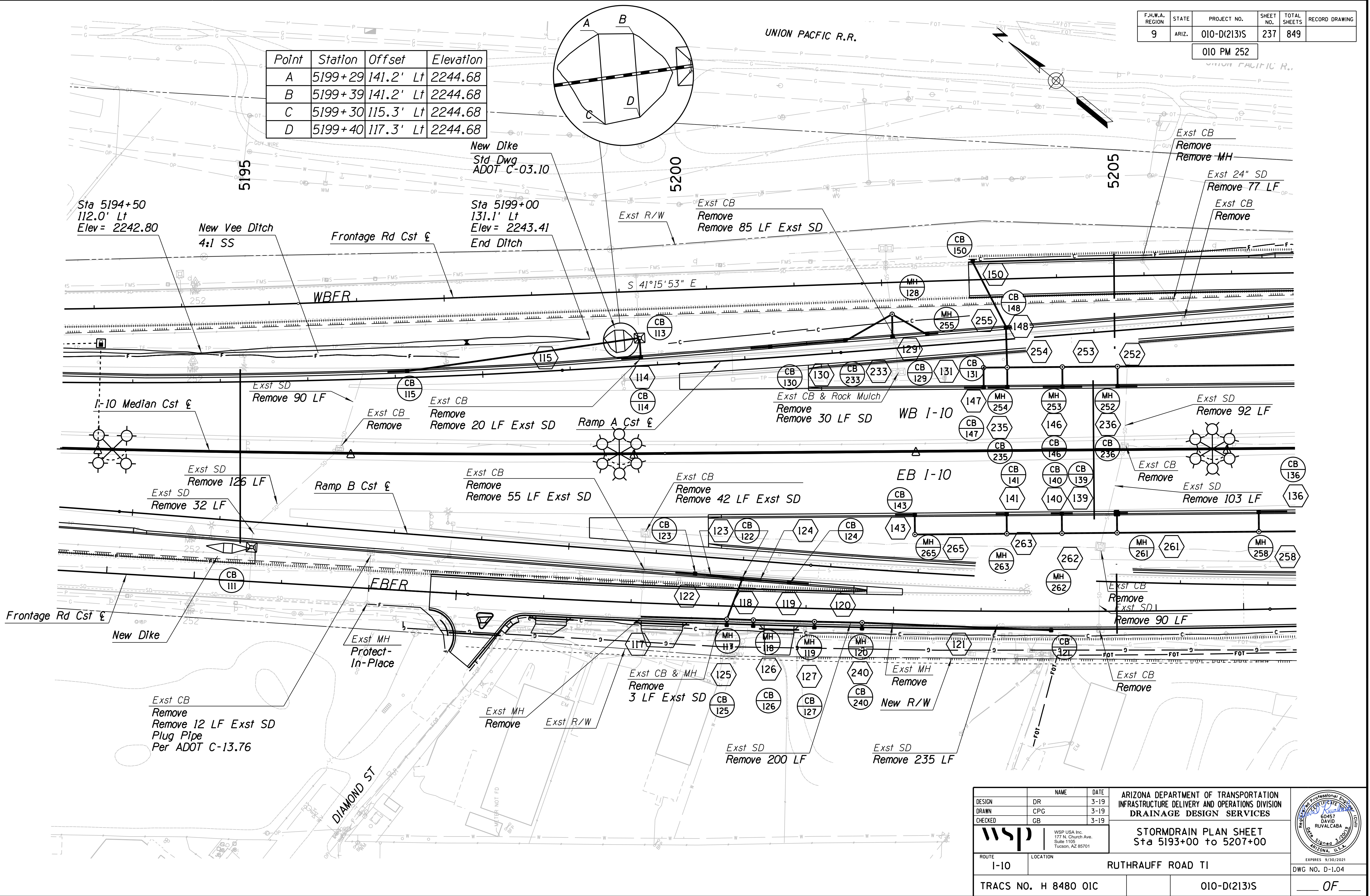
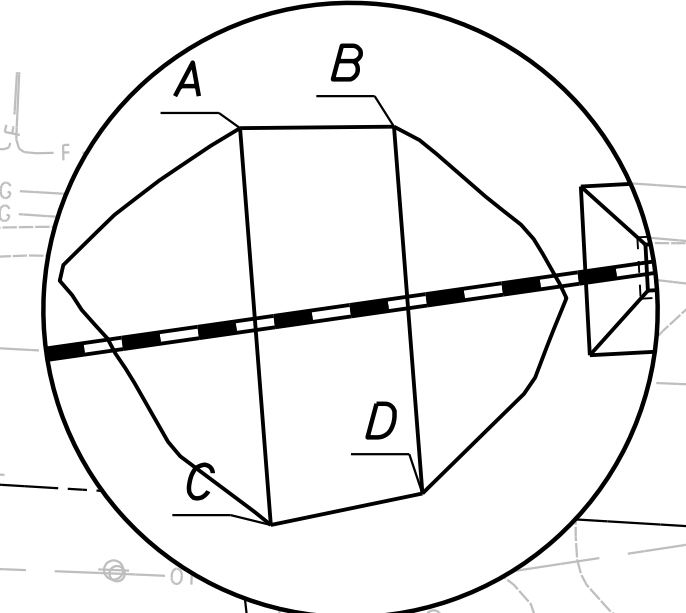
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

DESIGN	DR	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>I-10</b> <b>STORMDRAIN PLAN SHEET</b> <b>Sta 5179+00 to 5193+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	237	849	

010 PM 252

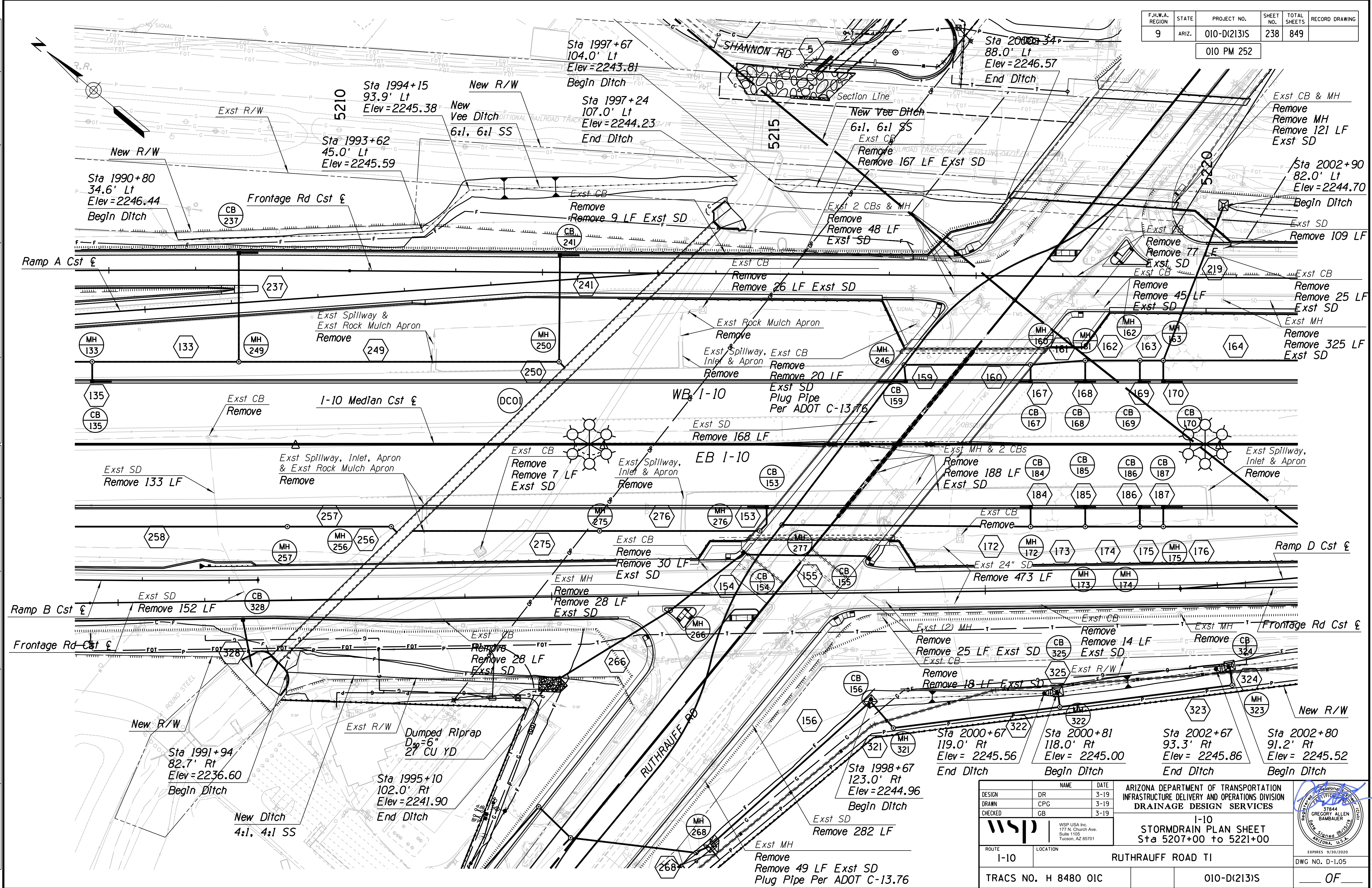
Point	Station	Offset	Elevation
A	5199+29	141.2' Lt	2244.68
B	5199+39	141.2' Lt	2244.68
C	5199+30	115.3' Lt	2244.68
D	5199+40	117.3' Lt	2244.68



DESIGN	DR	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>STORMDRAIN PLAN SHEET</b> Sta 5193+00 to 5207+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-1.04	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	238	849	

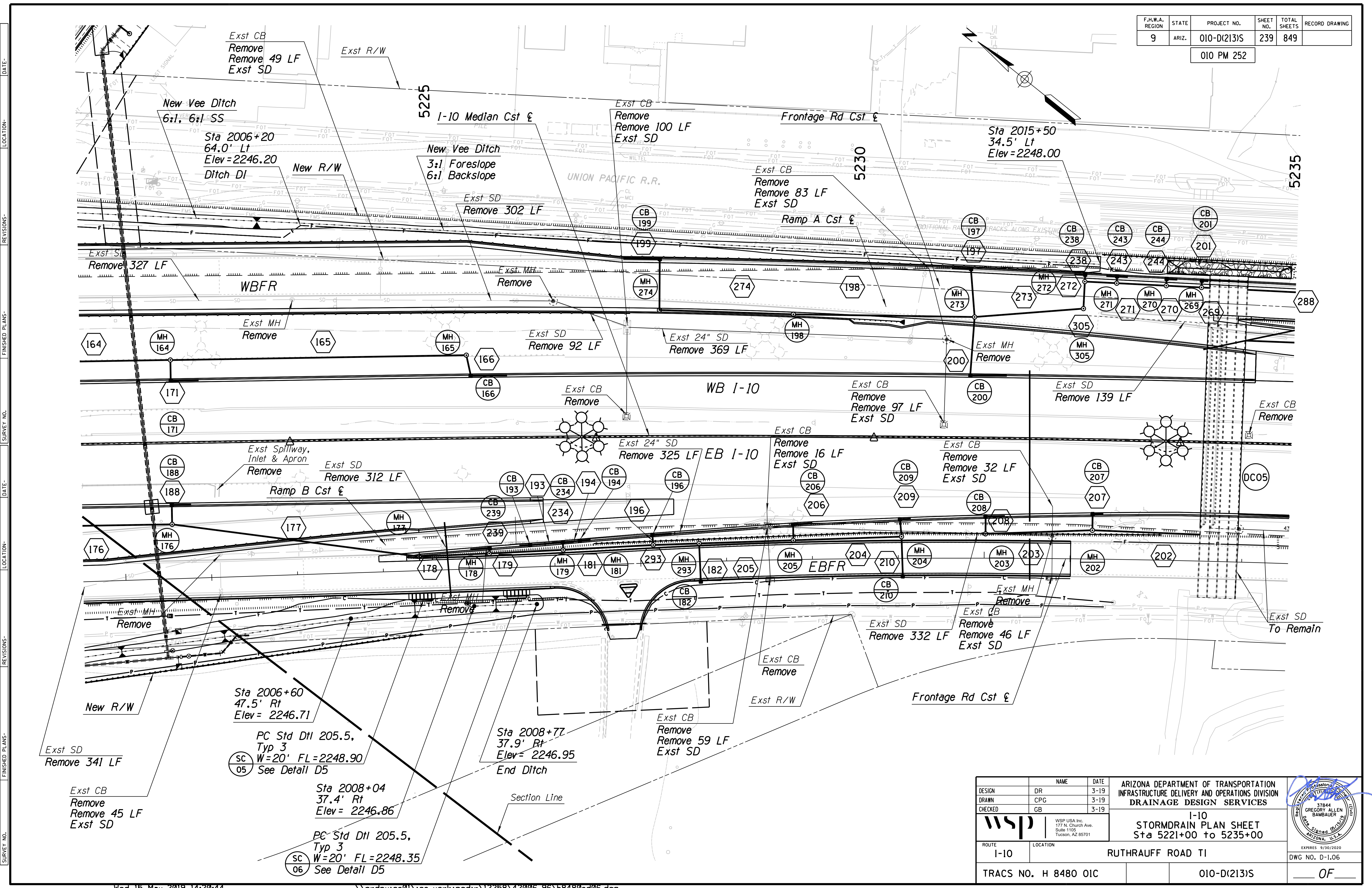
010 PM 252



DESIGN	DR	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	3-19		
CHECKED	GB	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		I-10 STORMDRAIN PLAN SHEET Sta 5207+00 to 5221+00
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 9/30/2020 DWG NO. D-1.05
TRACS NO. H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	239	849	

010 PM 252



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

Sta 2006+60  
 47.5' Rt  
 Elev = 2246.71  
 PC Std Dtl 205.5,  
 Typ 3  
 W=20' FL=2248.90  
 See Detail D5  
 SC 05

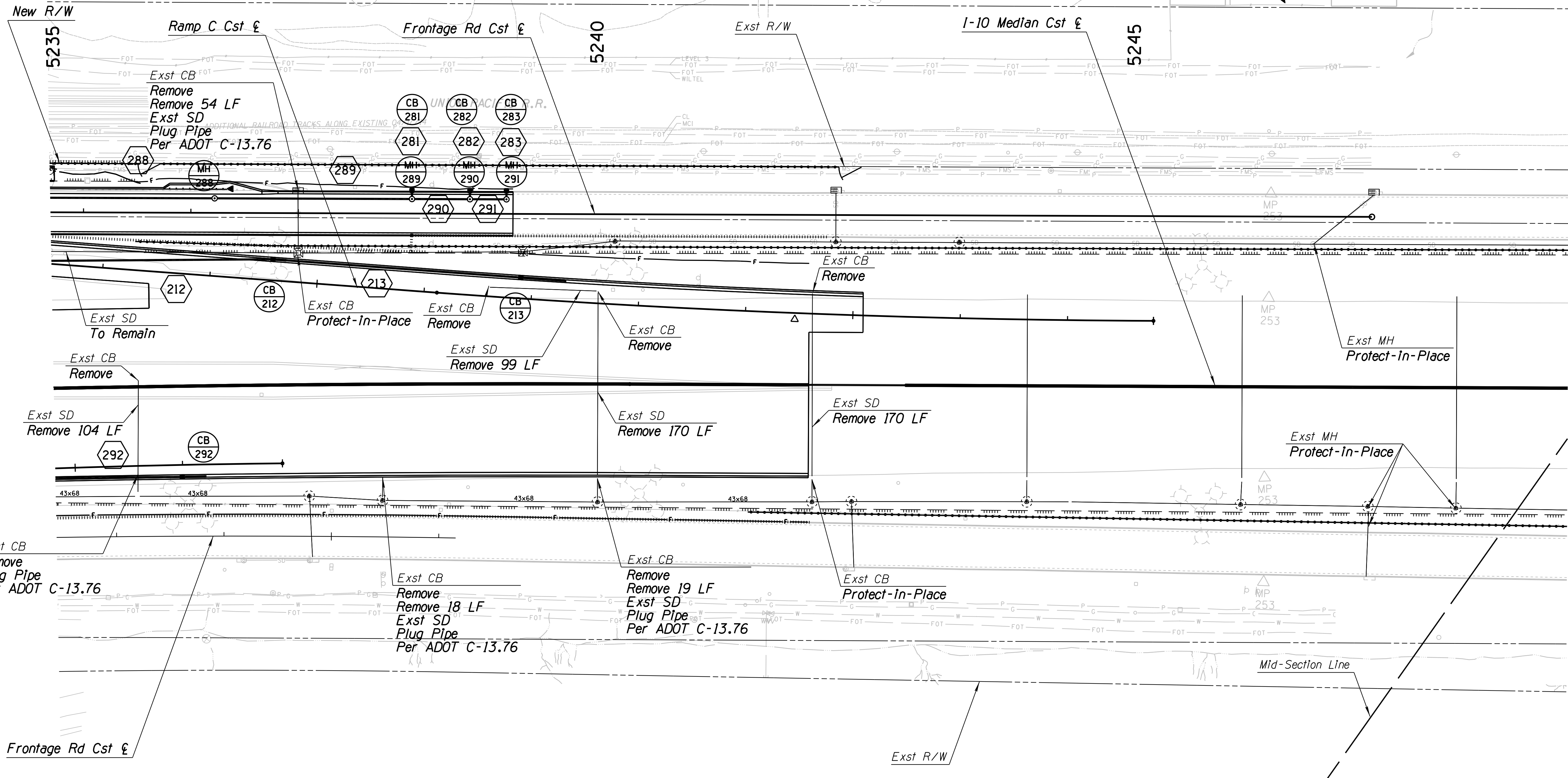
Sta 2008+04  
 37.4' Rt  
 Elev = 2246.86  
 PC Std Dtl 205.5,  
 Typ 3  
 W=20' FL=2248.35  
 See Detail D5  
 SC 06

Sta 2008+77  
 37.9' Rt  
 Elev = 2246.95  
 End Ditch

DESIGN	DR	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES  <b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	1-10 RUTHRAUFF ROAD TI	STORMDRAIN PLAN SHEET Sta 5221+00 to 5235+00	
DRAWN	CPG	3-19				
CHECKED	GB	3-19				
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. D-1.06 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	240	849	

010 PM 252

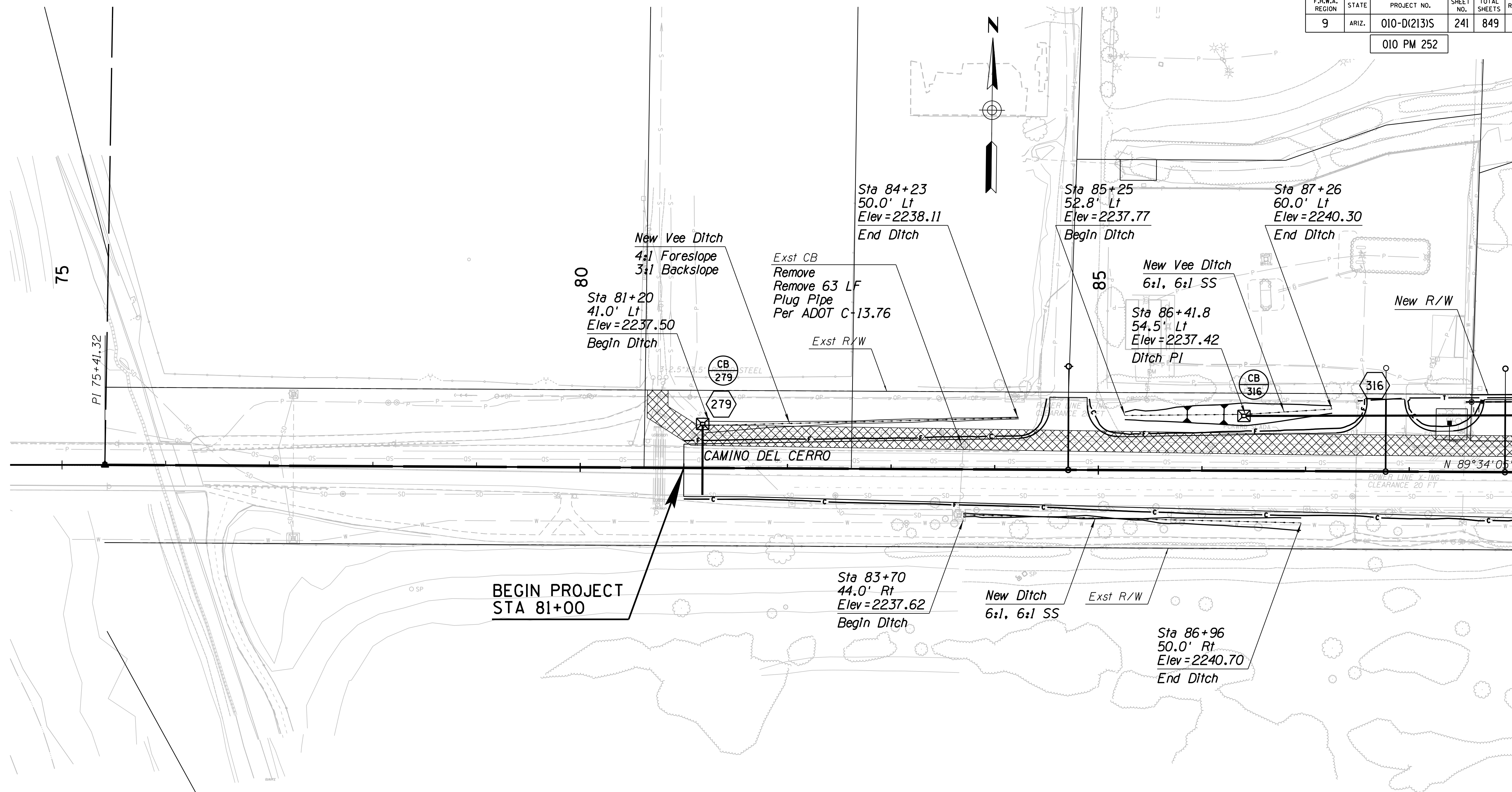


REVISIONS - FINISHED PLANS - SURVEY NO. - DATE - LOCATION -

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>  <b>I-10</b> <b>STORMDRAIN PLAN SHEET</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	3-19			
CHECKED	GB	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE <b>I-10</b>	LOCATION <b>RUTHRAUFF ROAD TI</b>
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. D-1.07 <b>OF</b>

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	241	849	


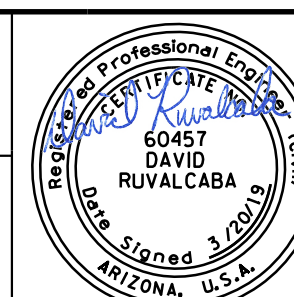
010 PM 252



BEGIN PROJECT  
STA 81+00

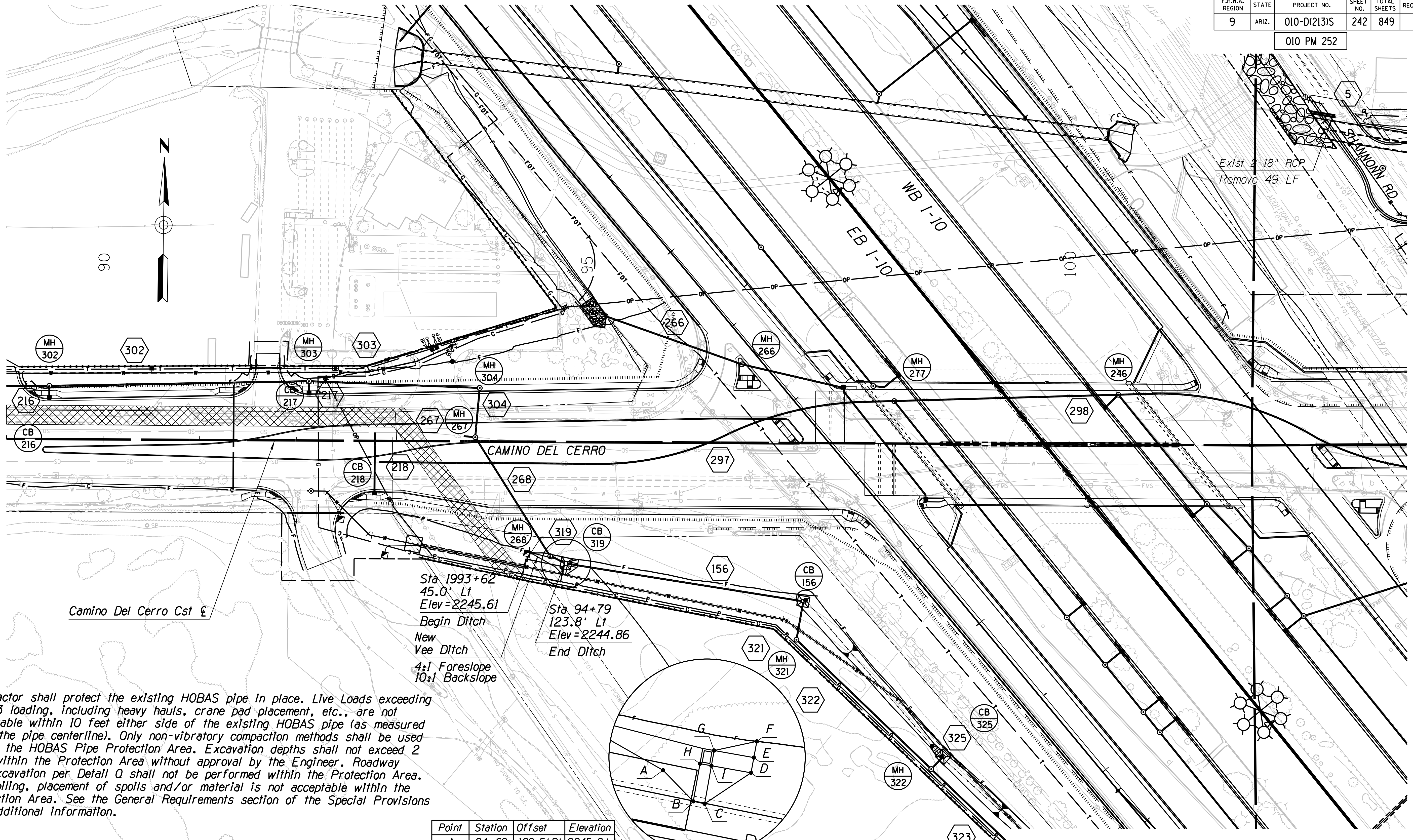
**NOTE:**

- Contractor shall protect the existing HOBAS pipe in place. Live Loads exceeding HL-93 loading, including heavy hauls, crane pad placement, etc., are not acceptable within 10 feet either side of the existing HOBAS pipe (as measured from the pipe centerline). Only non-vibratory compaction methods shall be used within the HOBAS Pipe Protection Area. Excavation depths shall not exceed 2 feet within the Protection Area without approval by the Engineer. Roadway Overexcavation per Detail Q shall not be performed within the Protection Area. Stockpiling, placement of spoils and/or material is not acceptable within the Protection Area. See the General Requirements section of the Special Provisions for additional information.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DR		3-19	
CPG		3-19	
CHECKED	GB	3-19	
			<b>RUTHRAUFF ROAD STORMDRAIN PLAN SHEET STA 81+00 TO STA 89+00</b>
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			
010-D(213)S			OF

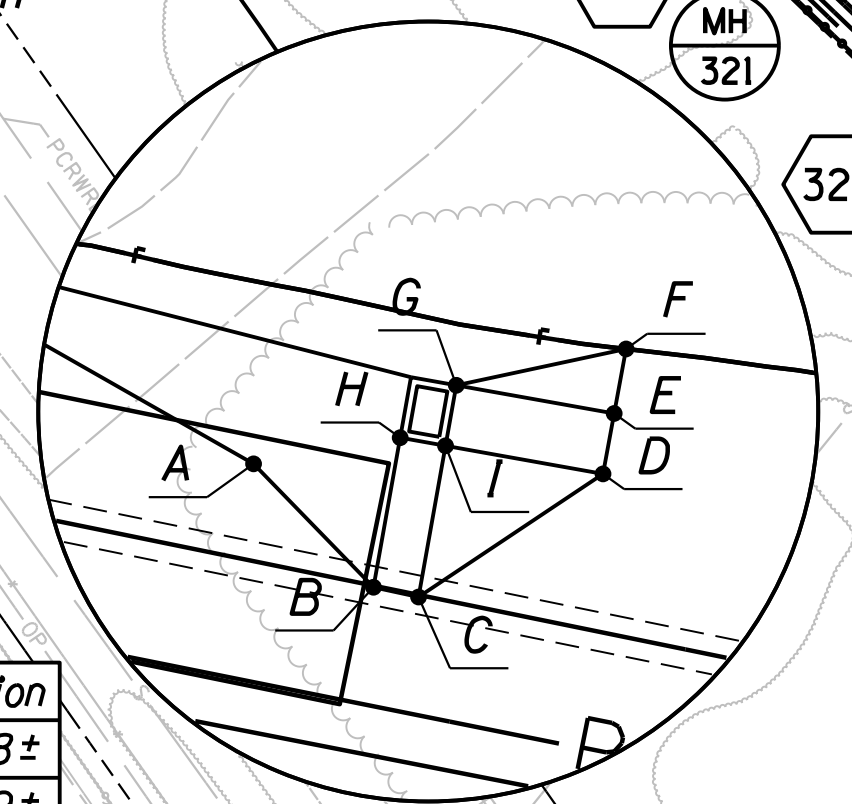
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE FINISHED PLANS SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE





**NOTE:**  
 1. Contractor shall protect the existing HOBAS pipe in place. Live Loads exceeding HL-93 loading, including heavy hauls, crane pad placement, etc., are not acceptable within 10 feet either side of the existing HOBAS pipe (as measured from the pipe centerline). Only non-vibratory compaction methods shall be used within the HOBAS Pipe Protection Area. Excavation depths shall not exceed 2 feet within the Protection Area without approval by the Engineer. Roadway Overexcavation per Detail Q shall not be performed within the Protection Area. Stockpiling, placement of spoils and/or material is not acceptable within the Protection Area. See the General Requirements section of the Special Provisions for additional information.

Point	Station	Offset	Elevation
A	94+69	129.5' Rt	2245.8±
B	94+77	137.5' Rt	2245.9±
C	94+79	138.1' Rt	2245.9±
D	94+91	130.0' Rt	2245.9±
E	94+92	126.1' Rt	2245.9±
F	94+93	121.9' Rt	2246.0±
G	94+82	124.3' Rt	2244.86
H	94+78	128.1' Rt	2244.86
I	94+82	128.8' Rt	2244.86

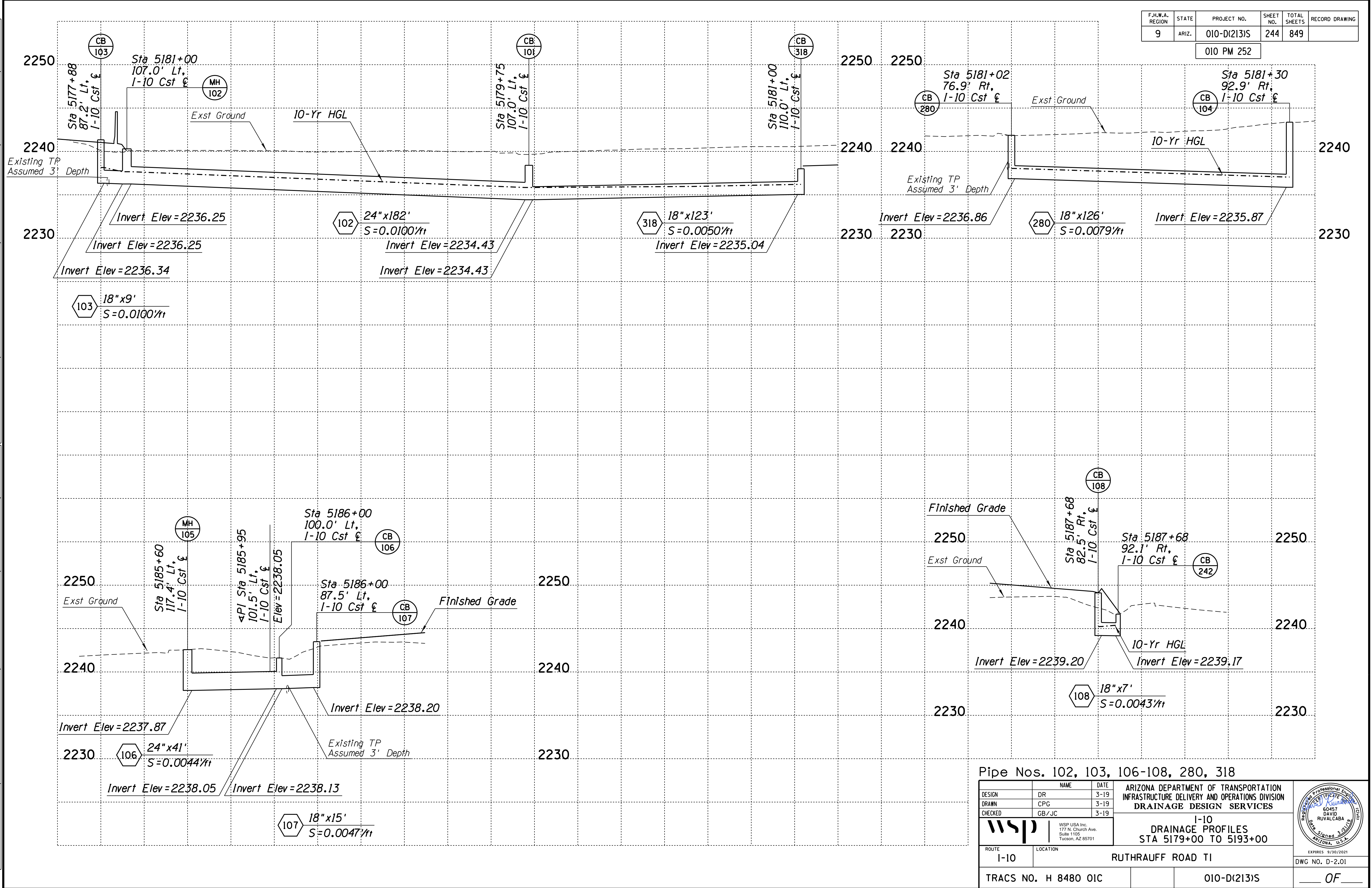


DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>STORMDRAIN PLAN SHEET</b> <b>STA 89+00 TO STA 103+50</b>	
DRAWN	CPG	3-19			
CHECKED	GB	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-1.09	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	244	849	

010 PM 252



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

Pipe Nos. 102, 103, 106-108, 280, 318

DESIGN	DR	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	C/P/G		3-19	
CHECKED	GB/JC		3-19	

**WSP** WSP USA Inc.  
 177 N. Church Ave.  
 Suite 1105  
 Tucson, AZ 85701

**1-10 DRAINAGE PROFILES**  
 STA 5179+00 TO 5193+00

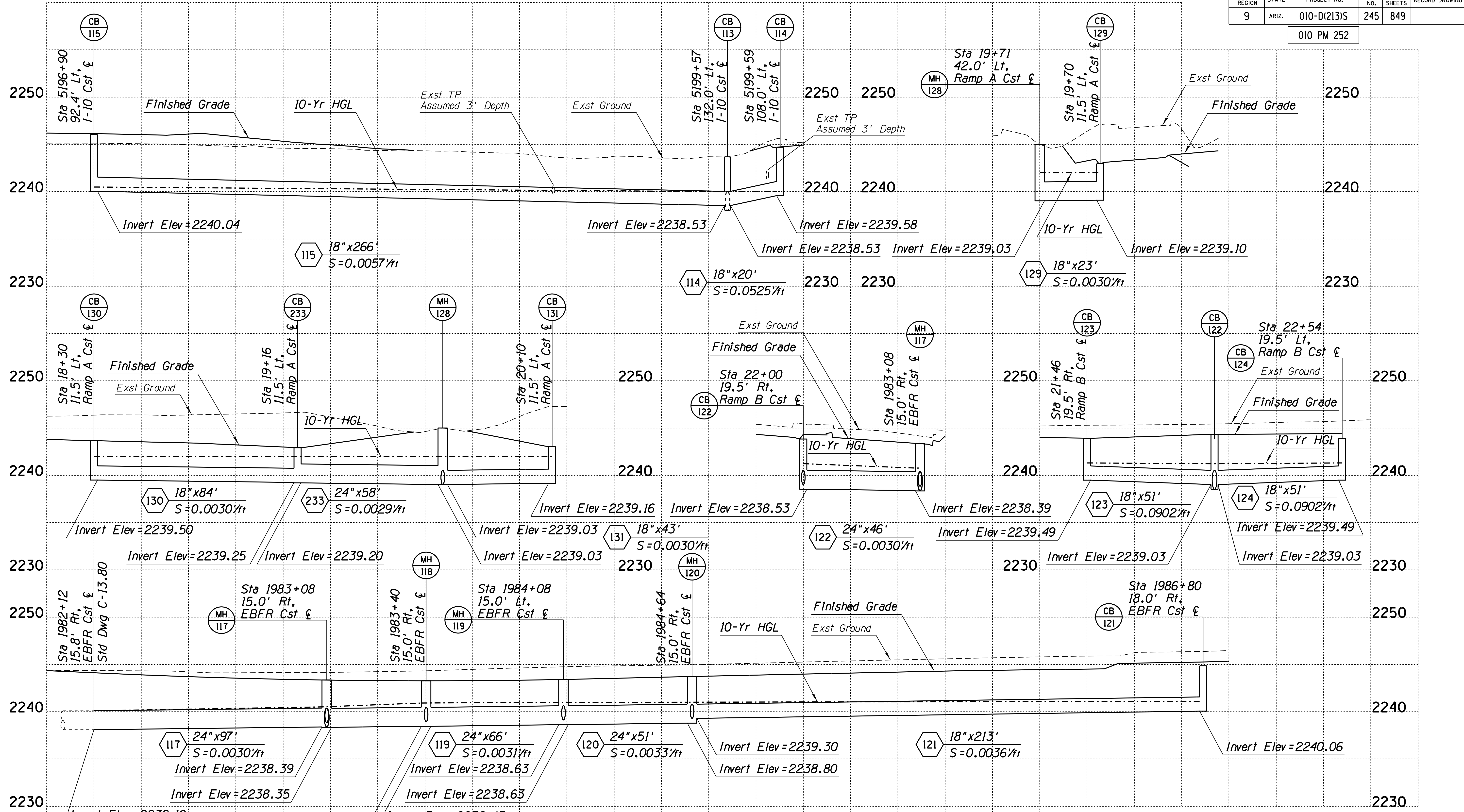
ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC 010-D(213)S DWG NO. D-2.01



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	245	849	

010 PM 252

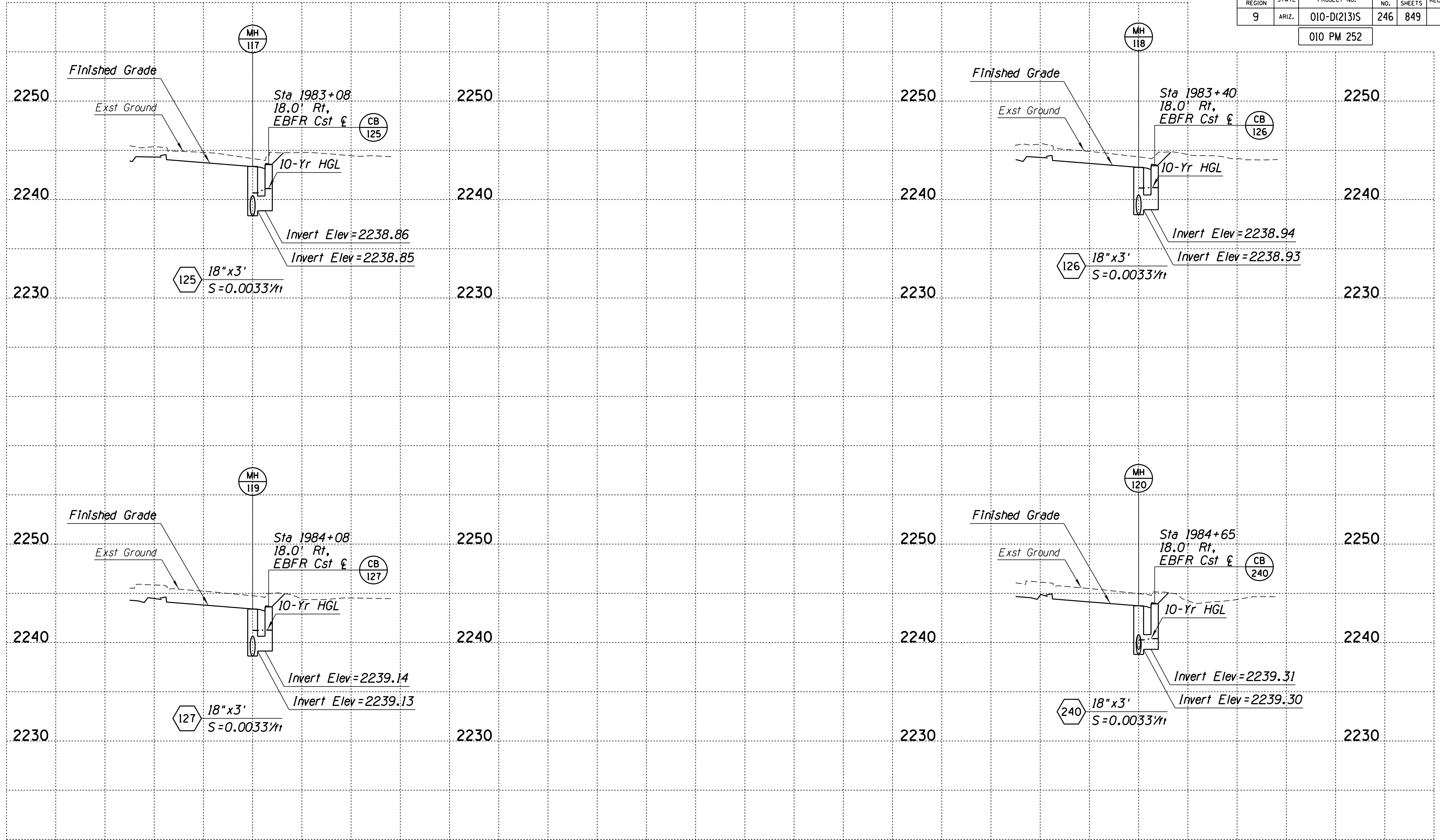


Pipe Nos. 114, 115, 117-124, 129-131, 233

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
I-10 DRAINAGE PROFILES STA 5193+00 TO 5207+00		RUTHRAUFF ROAD TI		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		EXPIRES 9/30/2021 DWG NO. D-2.02
TRACS NO. H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	246	849	

010 PM 252



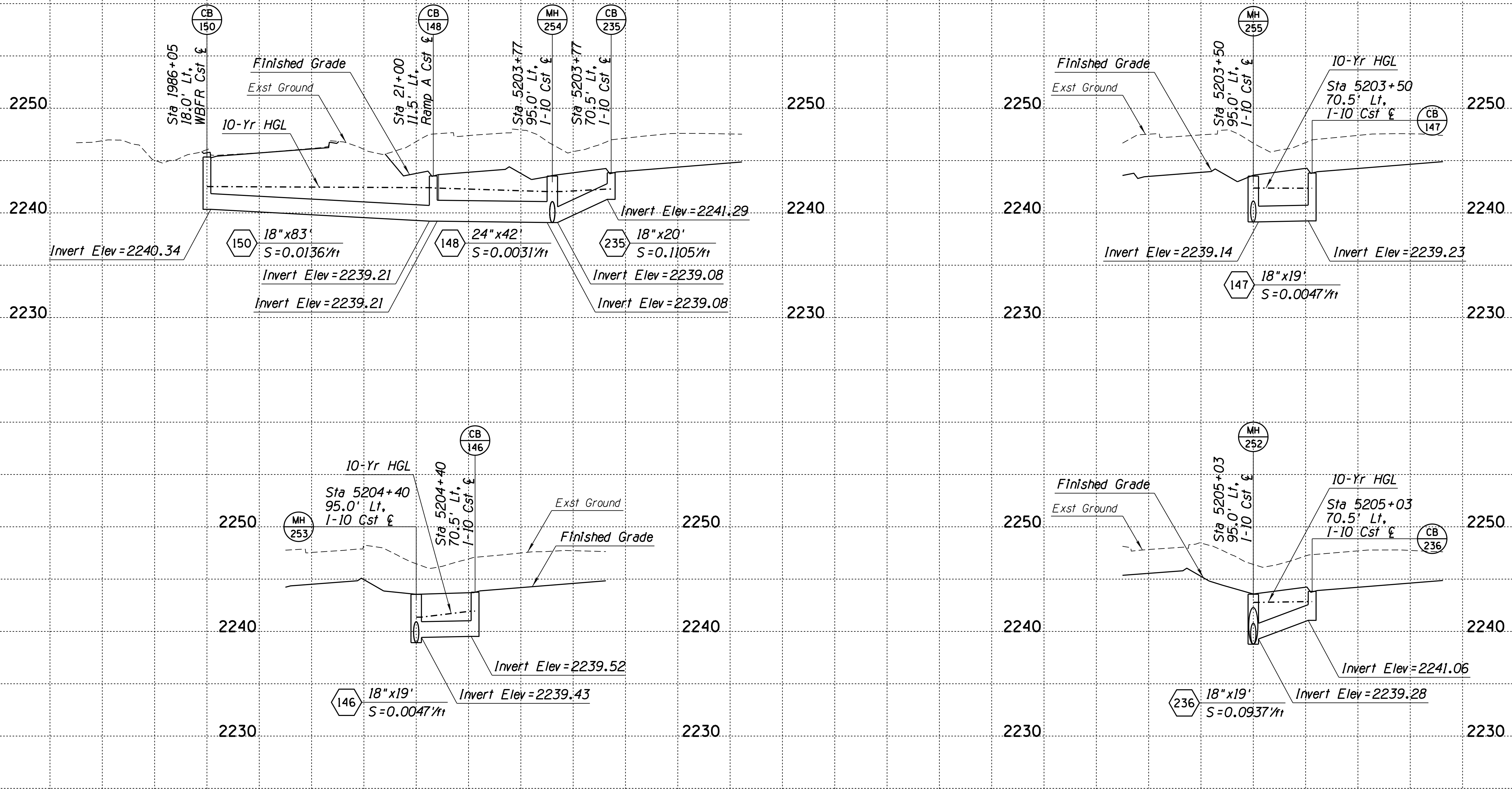
Pipe Nos. 125-127, 240

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		I-10 DRAINAGE PROFILES STA 5193+00 TO 5207+00	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					DWG NO. D-2.03 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	247	849	

010 PM 252



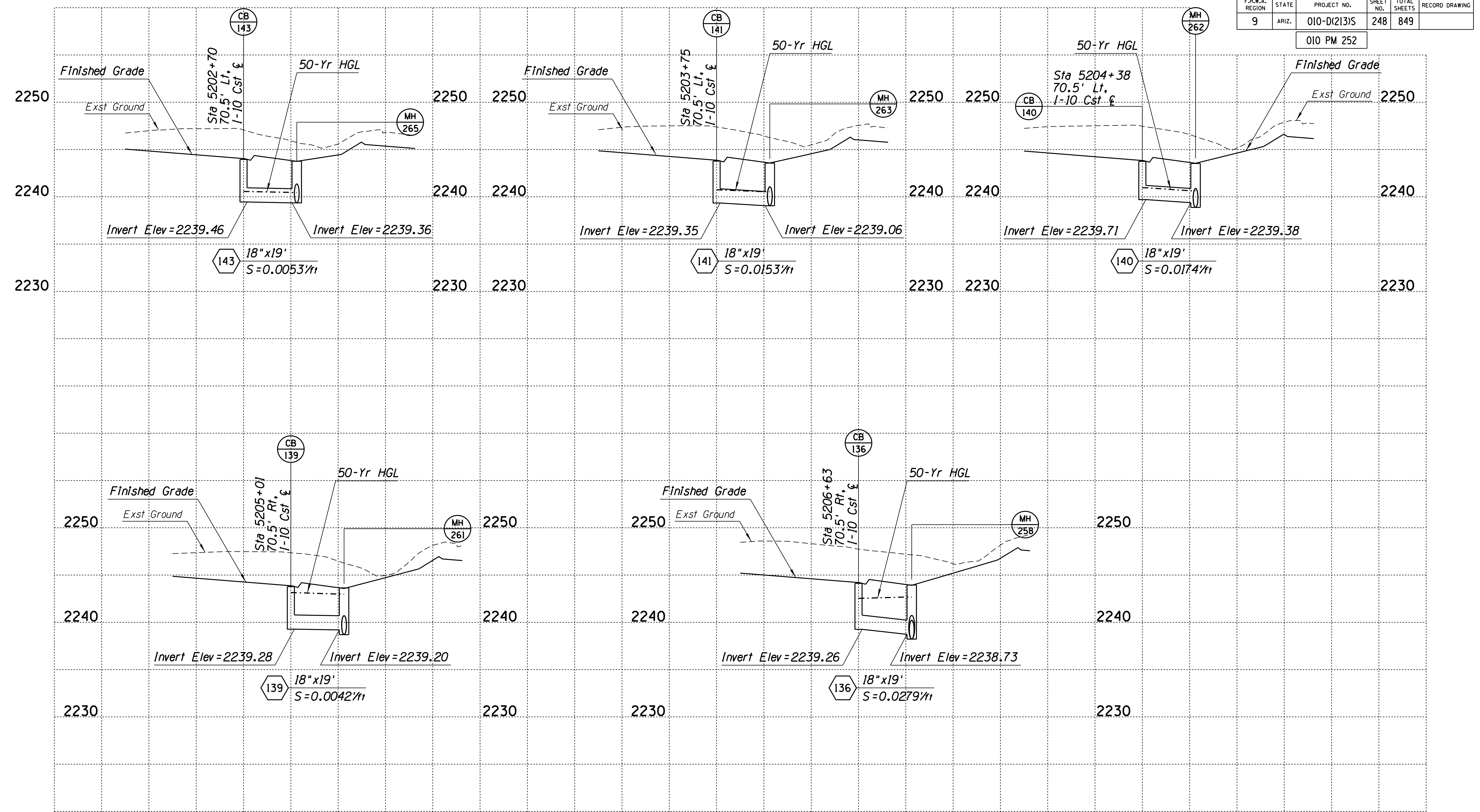
Pipe Nos. 146-148, 150, 235, 236

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>I-10          DRAINAGE PROFILES          STA 5193+00 TO 5207+00</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

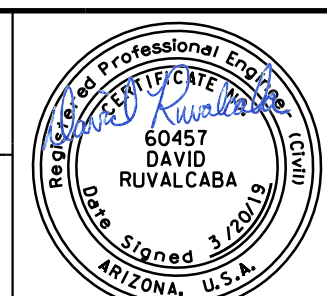
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	248	849	

010 PM 252



Pipe Nos. 136, 139-141, 143

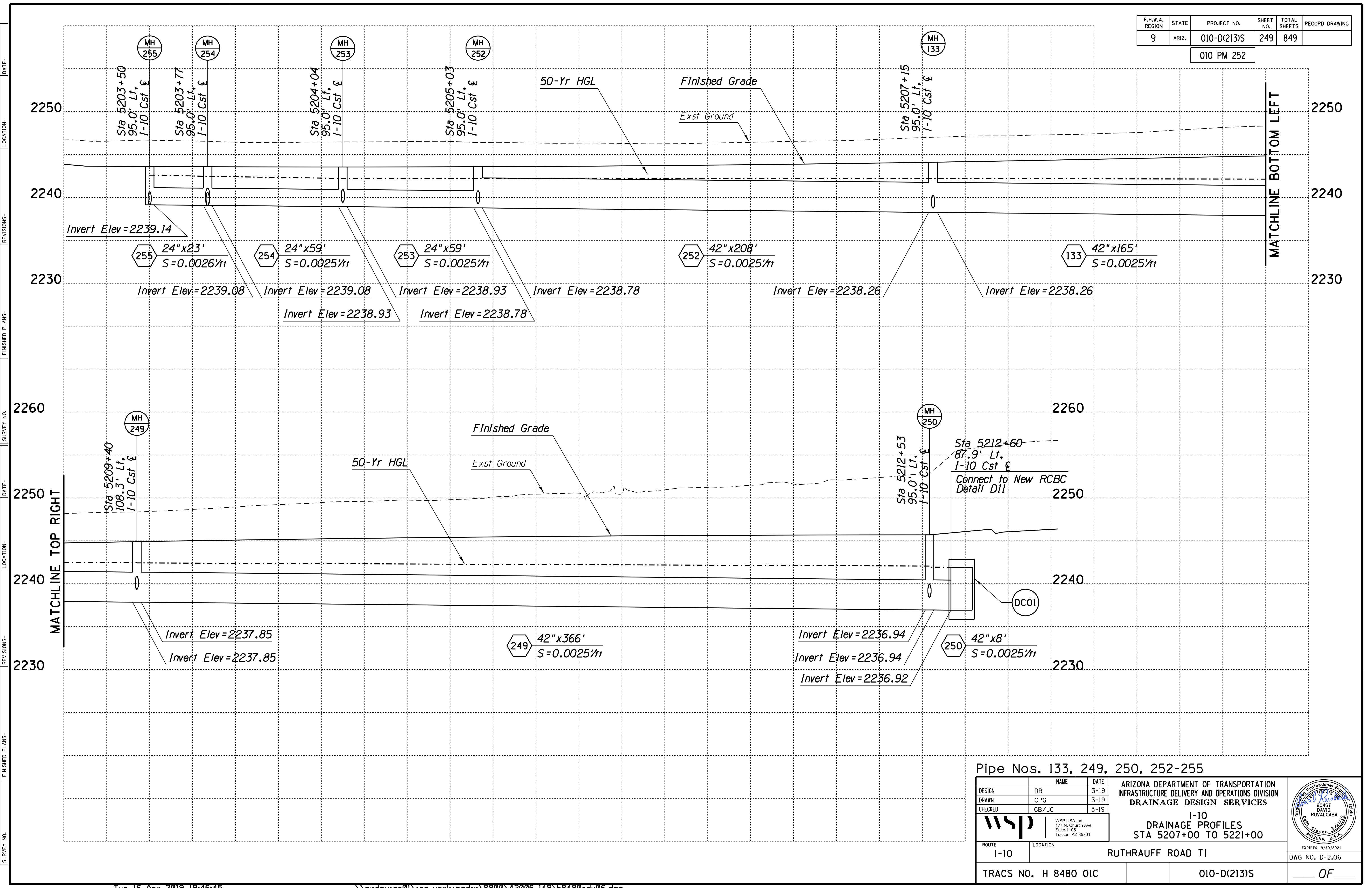
DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		I-10 DRAINAGE PROFILES STA 5193+00 TO 5207+00
ROUTE	LOCATION			RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC 010-D(213)S
				EXPRESSES 9/30/2021 DWG NO. D-2.05 OF



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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	249	849	

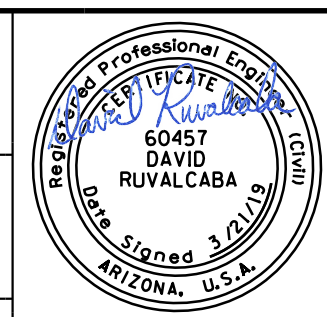
010 PM 252



Pipe Nos. 133, 249, 250, 252-255

DESIGN	NAME	DATE
DR	DR	3-19
DRAWN	NAME	DATE
CPG	CPG	3-19
CHECKED	NAME	DATE
GB/JC	GB/JC	3-19

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



1-10  
DRAINAGE PROFILES  
STA 5207+00 TO 5221+00

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

EXPIRES 9/30/2021  
DWG NO. D-2.06

TRACS NO. H 8480 OIC

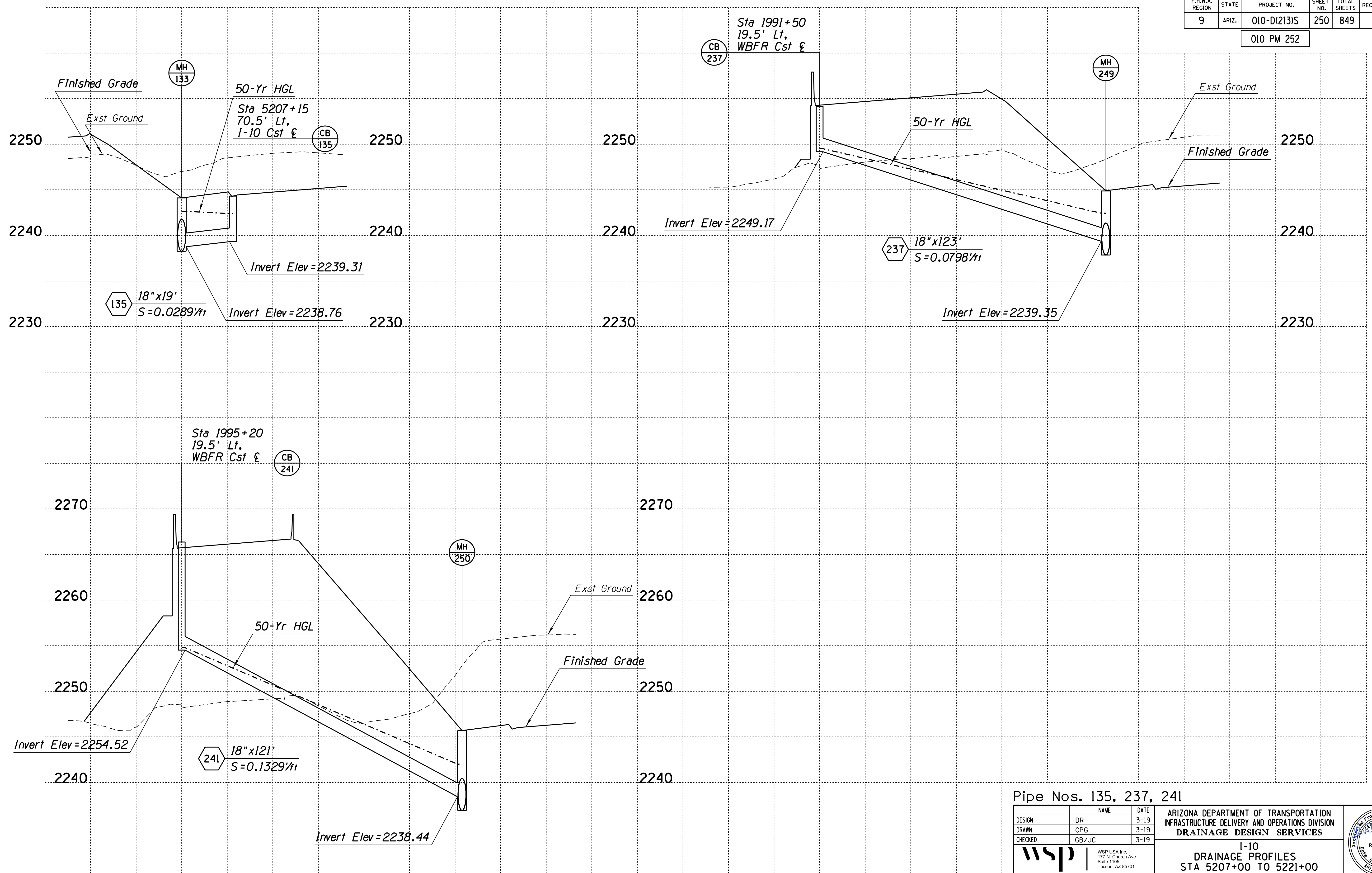
010-D(213)S

OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	250	849	

010 PM 252



Pipe Nos. 135, 237, 241

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	

**wsp** WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

**I-10 DRAINAGE PROFILES**  
STA 5207+00 TO 5221+00

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC

010-D(213)S

EXPIRES 9/30/2021  
DWG NO. D-2.07

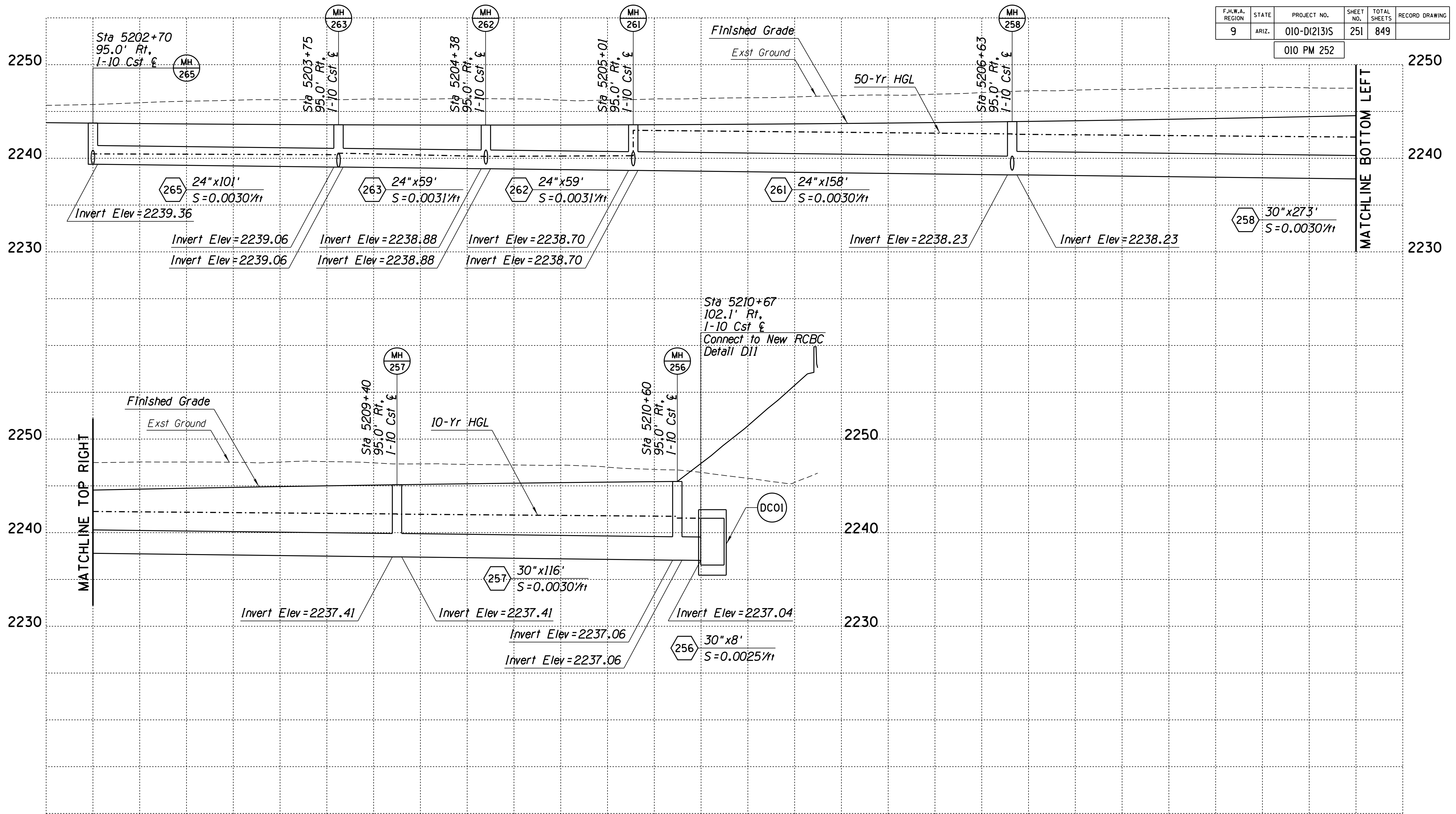
Signature: David Ruvalcaba  
Professional Engineer  
No. 60457  
RUTHRAUFF ROAD TI  
AZ 010-D(213)S  
Signed 3/2019  
ARIZONA, U.S.A.

OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	251	849	

010 PM 252



MATCHLINE TOP RIGHT

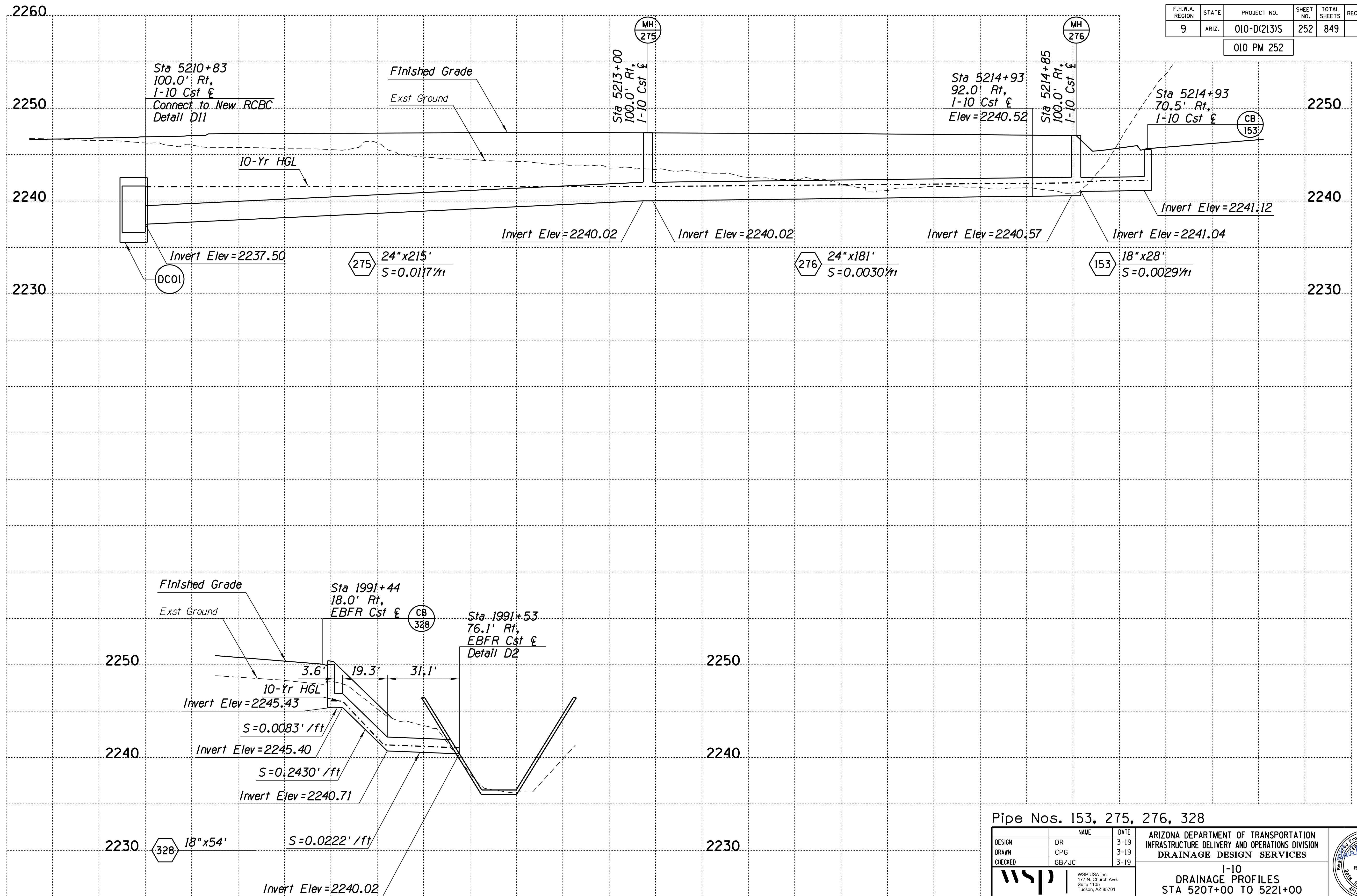
MATCHLINE BOTTOM LEFT

Pipe Nos. 256-258, 261-263, 265

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	252	849	

010 PM 252



SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Pipe Nos. 153, 275, 276, 328

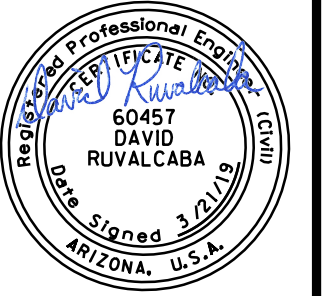
DESIGN	DR	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	GB/JC	DATE	3-19

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



WSP USA, Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

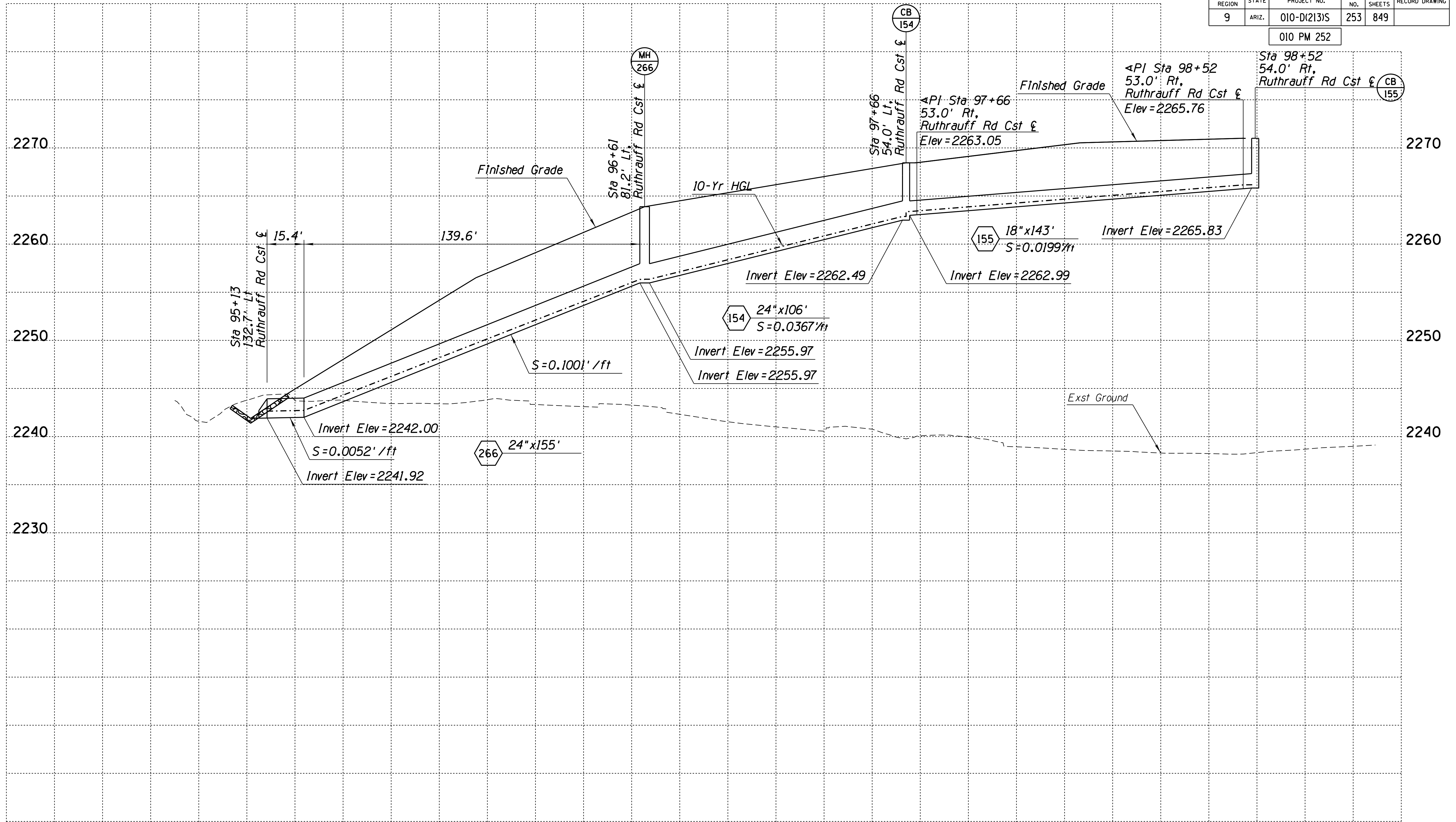
I-10  
DRAINAGE PROFILES  
STA 5207+00 TO 5221+00



ROUTE	LOCATION	EXPIRES
I-10	RUTHRAUFF ROAD TI	9/30/2021
TRACS NO. H 8480 OIC	010-D(213)S	DWG NO. D-2.09

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	253	849	

010 PM 252



Pipe Nos. 154-155, 266

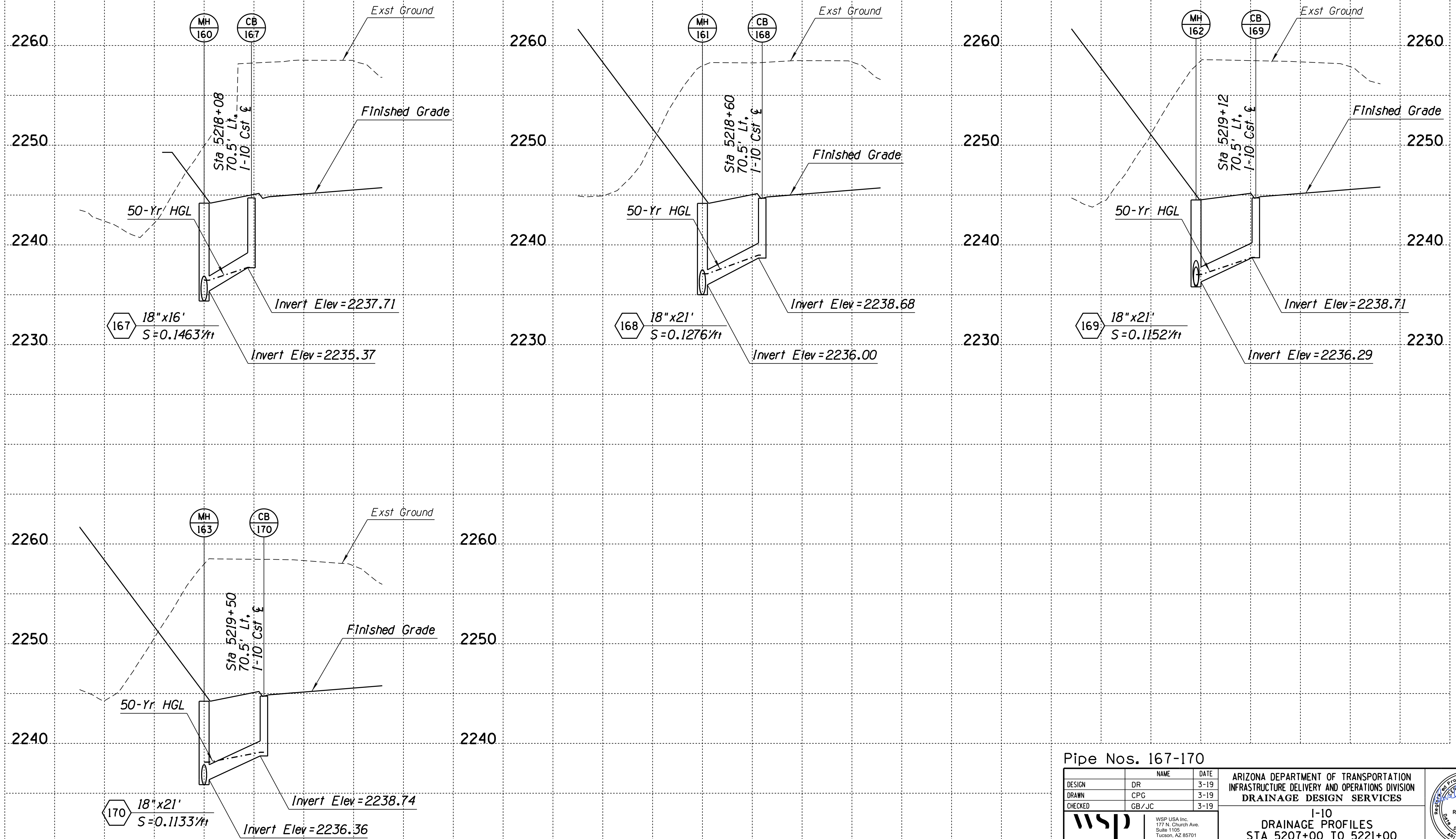
DESIGN	DR	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>DRAINAGE DESIGN SERVICES</b>
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>		<b>1-10</b> <b>DRAINAGE PROFILES</b> <b>STA 5207+00 TO 5221+00</b>
ROUTE	LOCATION			<small>EXPIRES 9/30/2021</small> DWG NO. D-2.10
I-10	RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC		010-D(213)S		OF



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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	254	849	

010 PM 252



Pipe Nos. 167-170

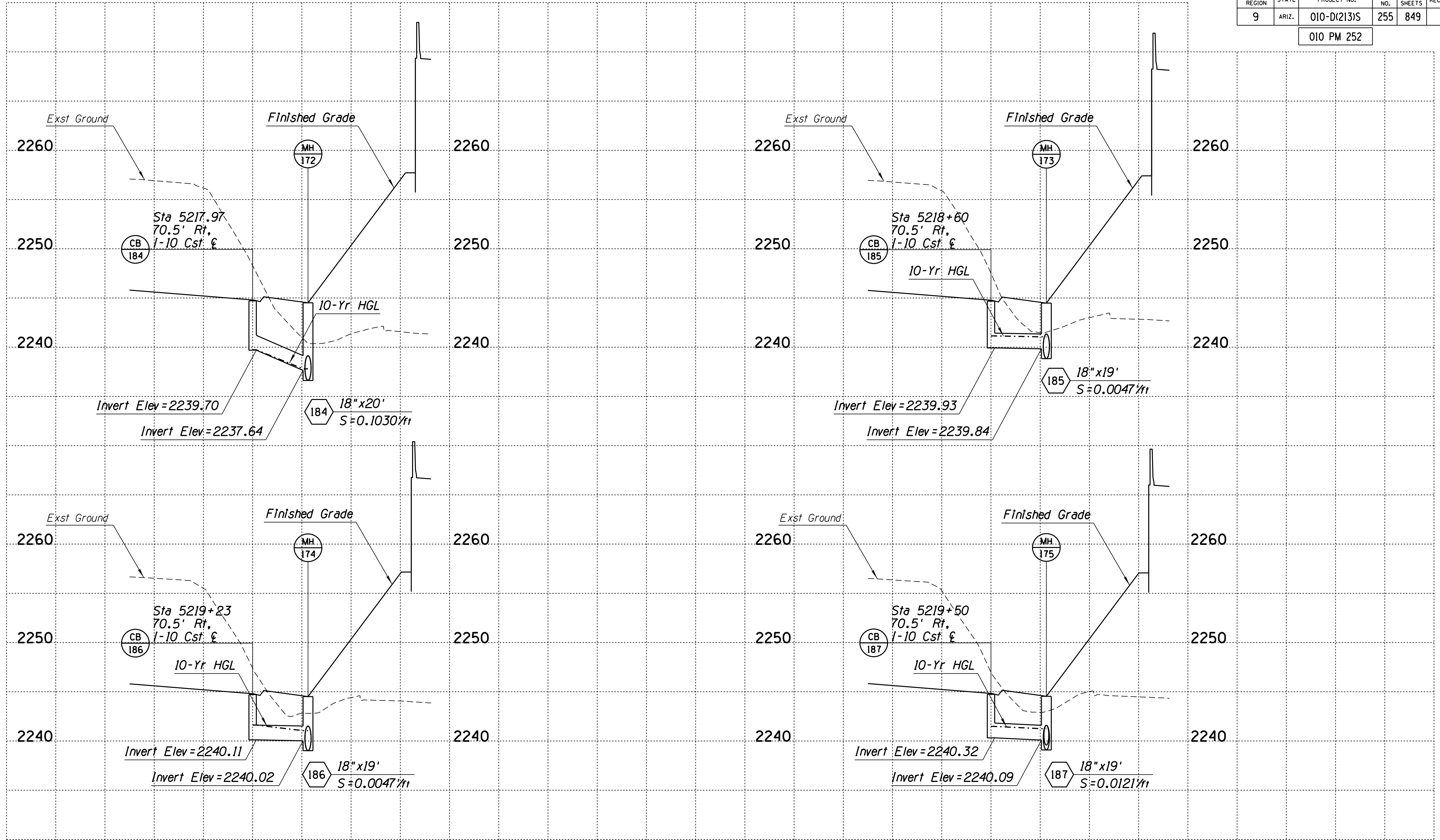
DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
ROUTE		LOCATION		
I-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF



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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	255	849	

010 PM 252



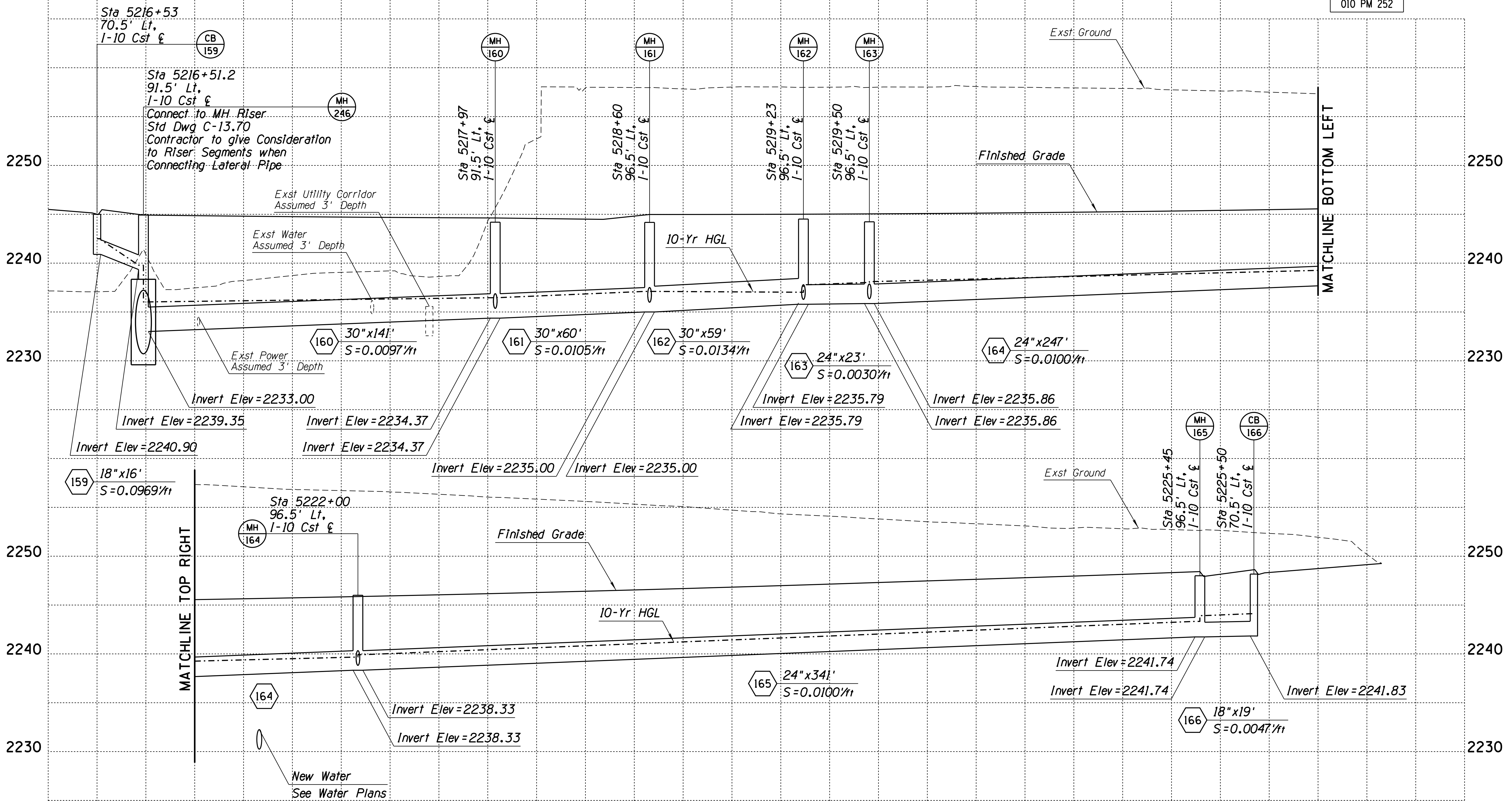
Pipe Nos. 184-187

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		I-10 DRAINAGE PROFILES STA 5207+00 TO 5221+00
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S	DWG NO. D-2.12

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-D(213)S	256	849	

010 PM 252



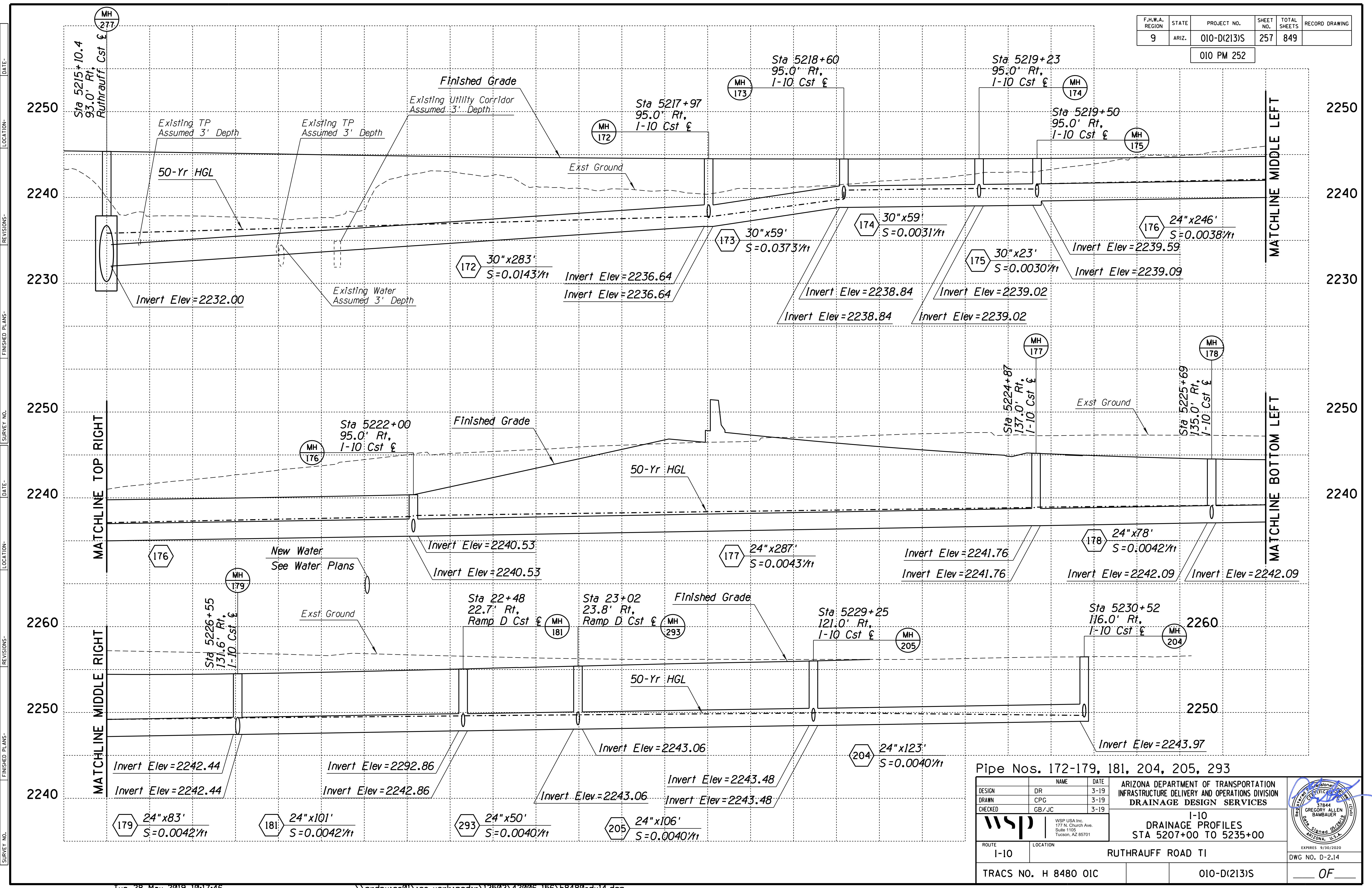
REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- DATE- REVISIONS- FINISHED PLANS- SURVEY NO. DATE-

Pipe Nos. 159-166

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES  <b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
ROUTE		LOCATION		I-10 RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-2.13 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	257	849	

010 PM 252



Pipe Nos. 172-179, 181, 204, 205, 293

DESIGN	DR	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	GB/JC	DATE	3-19

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

1-10  
DRAINAGE PROFILES  
STA 5207+00 TO 5235+00

WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

REGISTRATION NO. 17844  
GREGORY ALLEN BAMBAUER  
Professional Engineer  
EXPIRES 9/30/2020

ROUTE 1-10 LOCATION RUTHRAUFF ROAD TI

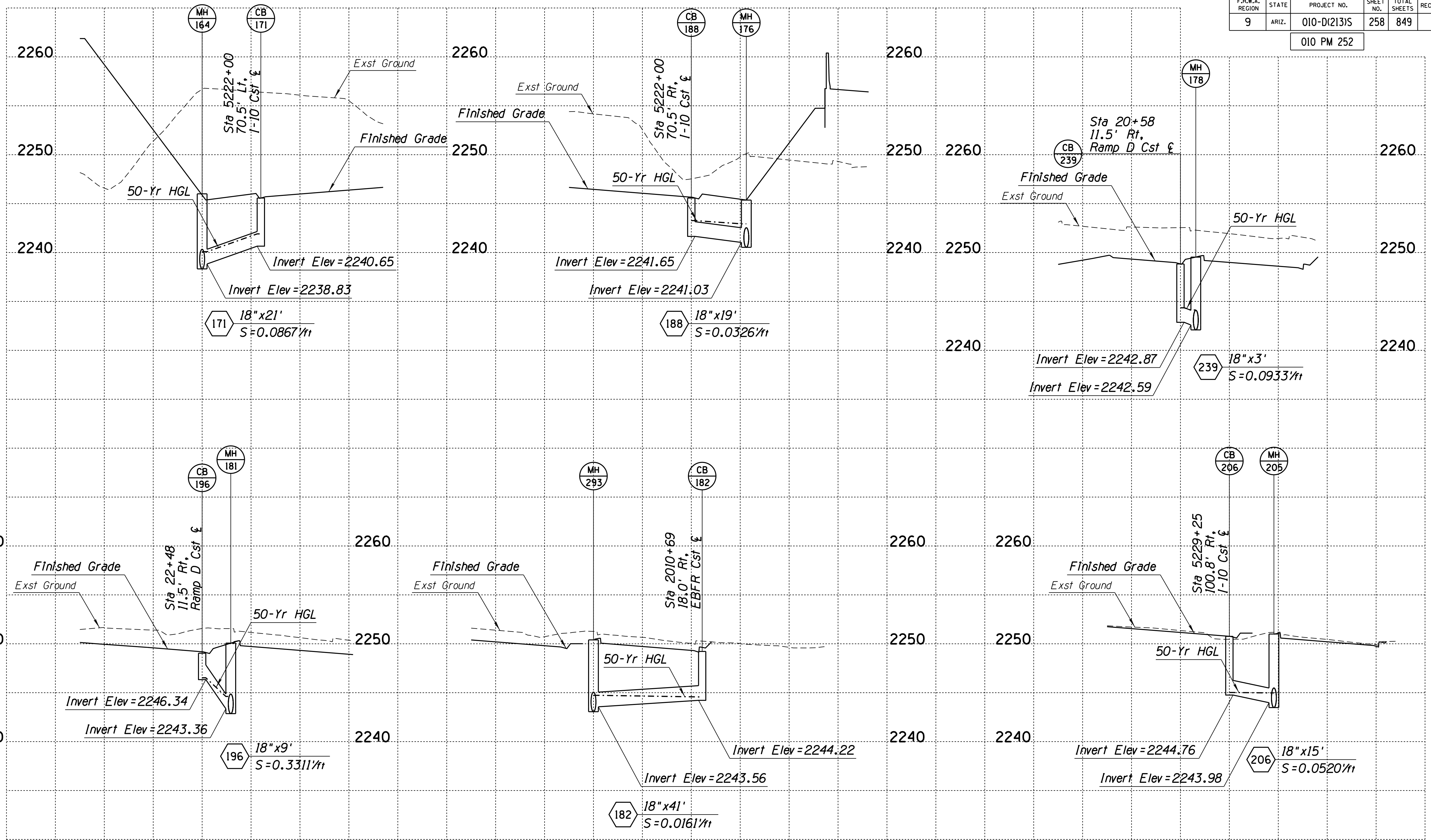
TRACS NO. H 8480 OIC 010-D(213)S

DWG NO. D-2.14 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	258	849	

010 PM 252



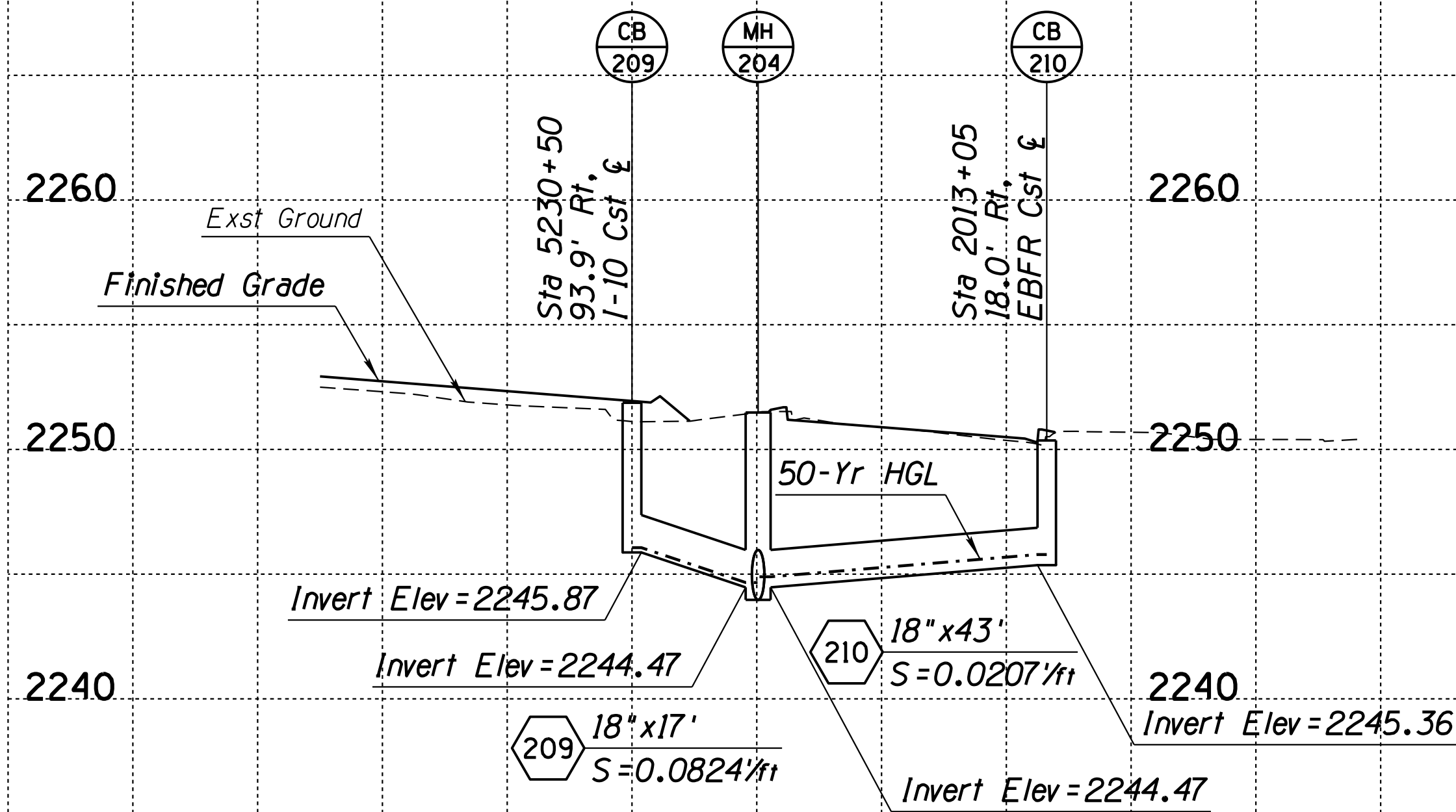
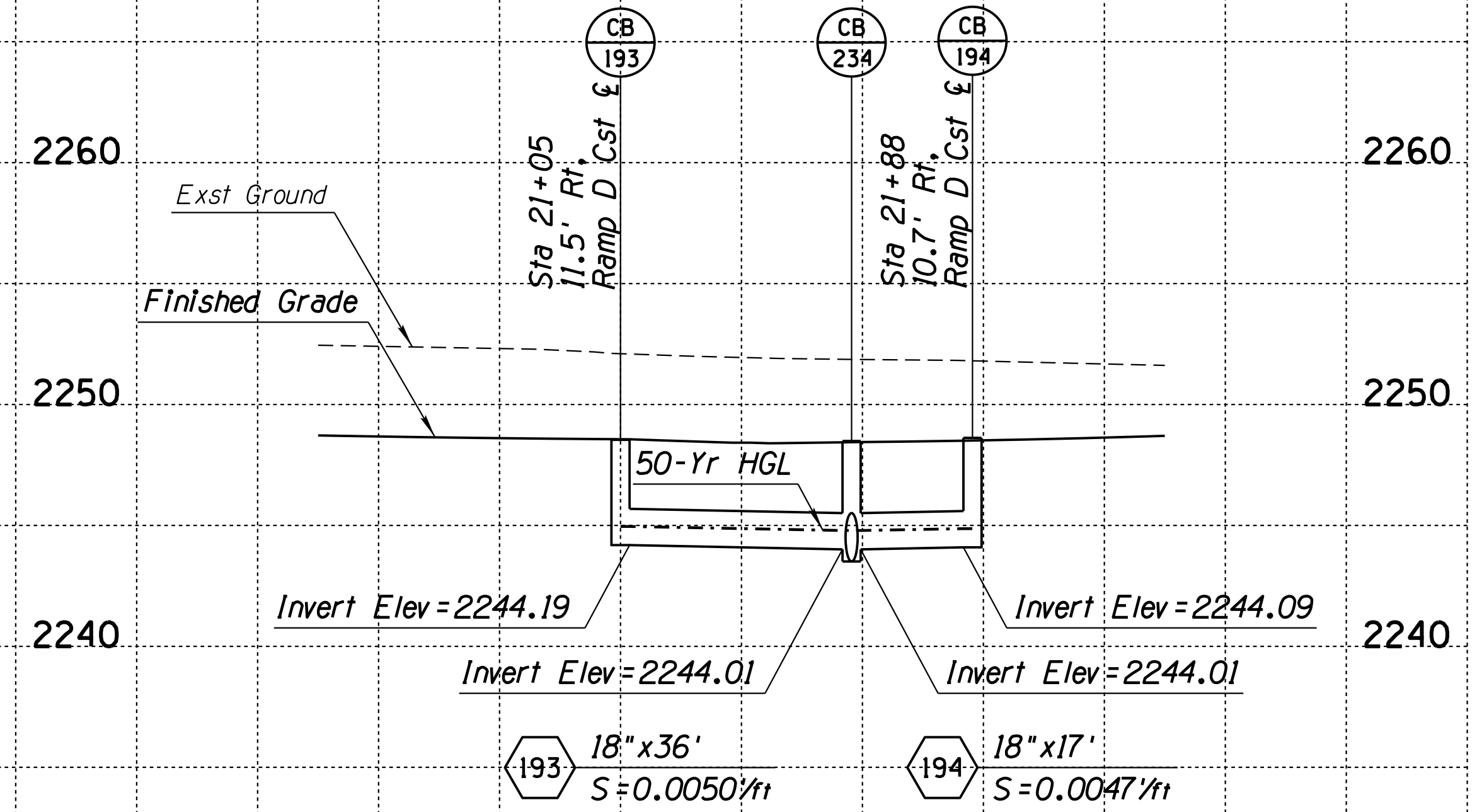
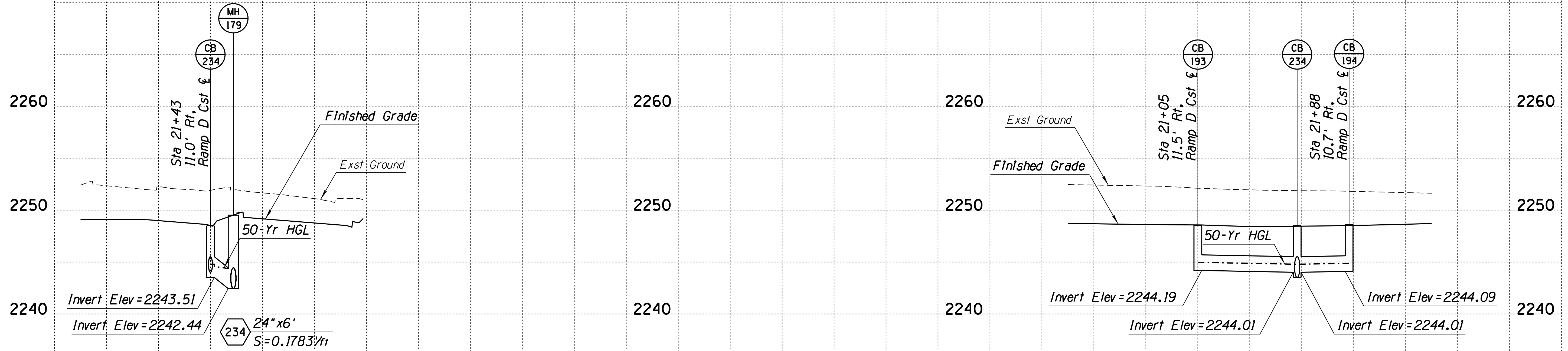
Pipe Nos. 171, 182, 188, 196, 206, 239

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE: I-10    LOCATION: RUTHRAUFF ROAD TI		I-10 DRAINAGE PROFILES STA 5221+00 TO 5235+00		
TRACS NO. H 8480 OIC			010-D(213)S	
				EXPIRES: 9/30/2021 DWG NO. D-2.15 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	259	849	

010 PM 252



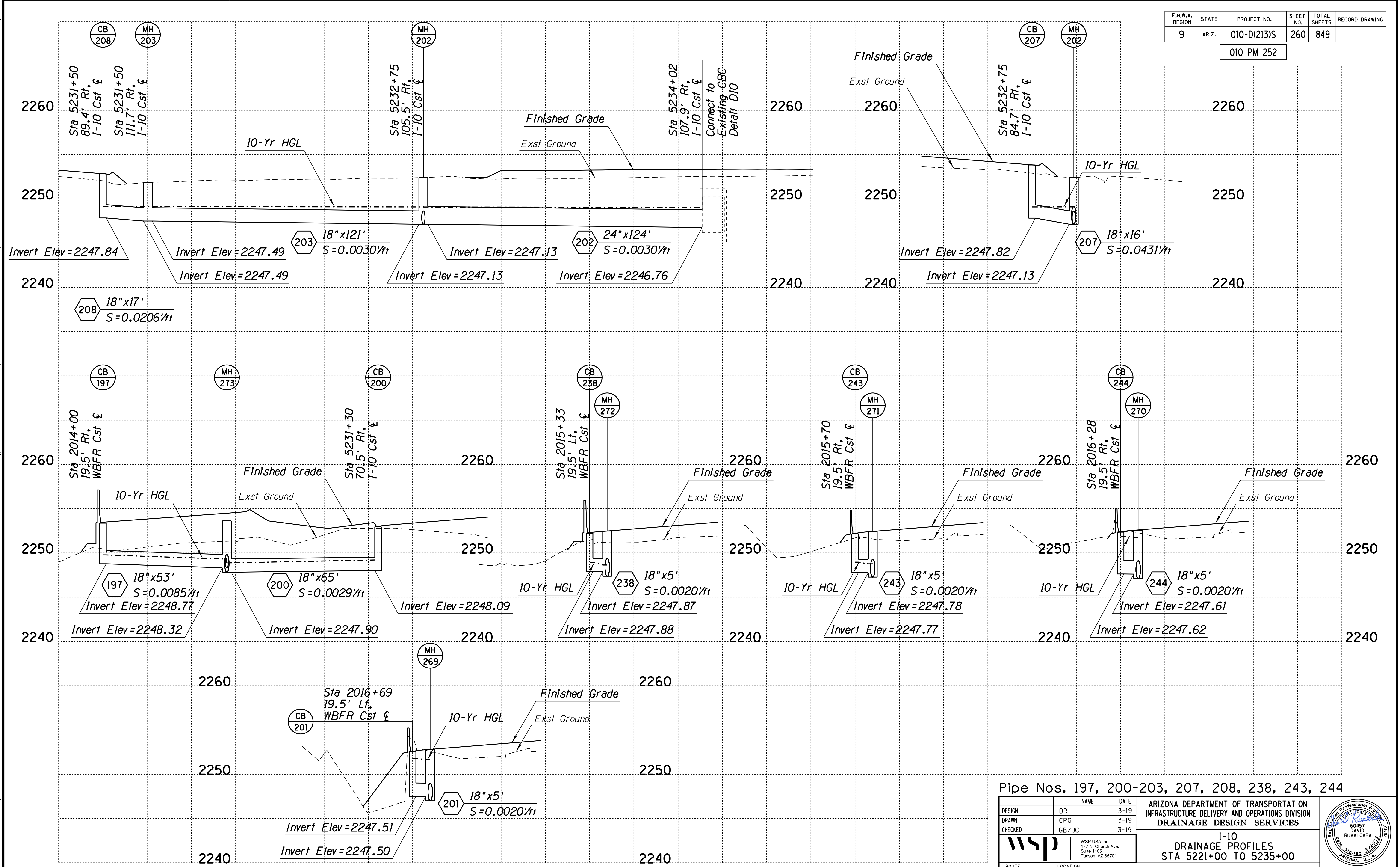
Pipe Nos. 193, 194, 209, 210, 234

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		<small>WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>		
ROUTE	LOCATION			
I-10	RUTHRAUFF ROAD TI			EXPIRES 9/30/2021
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-2.16
				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-D(213)S	260	849	

010 PM 252



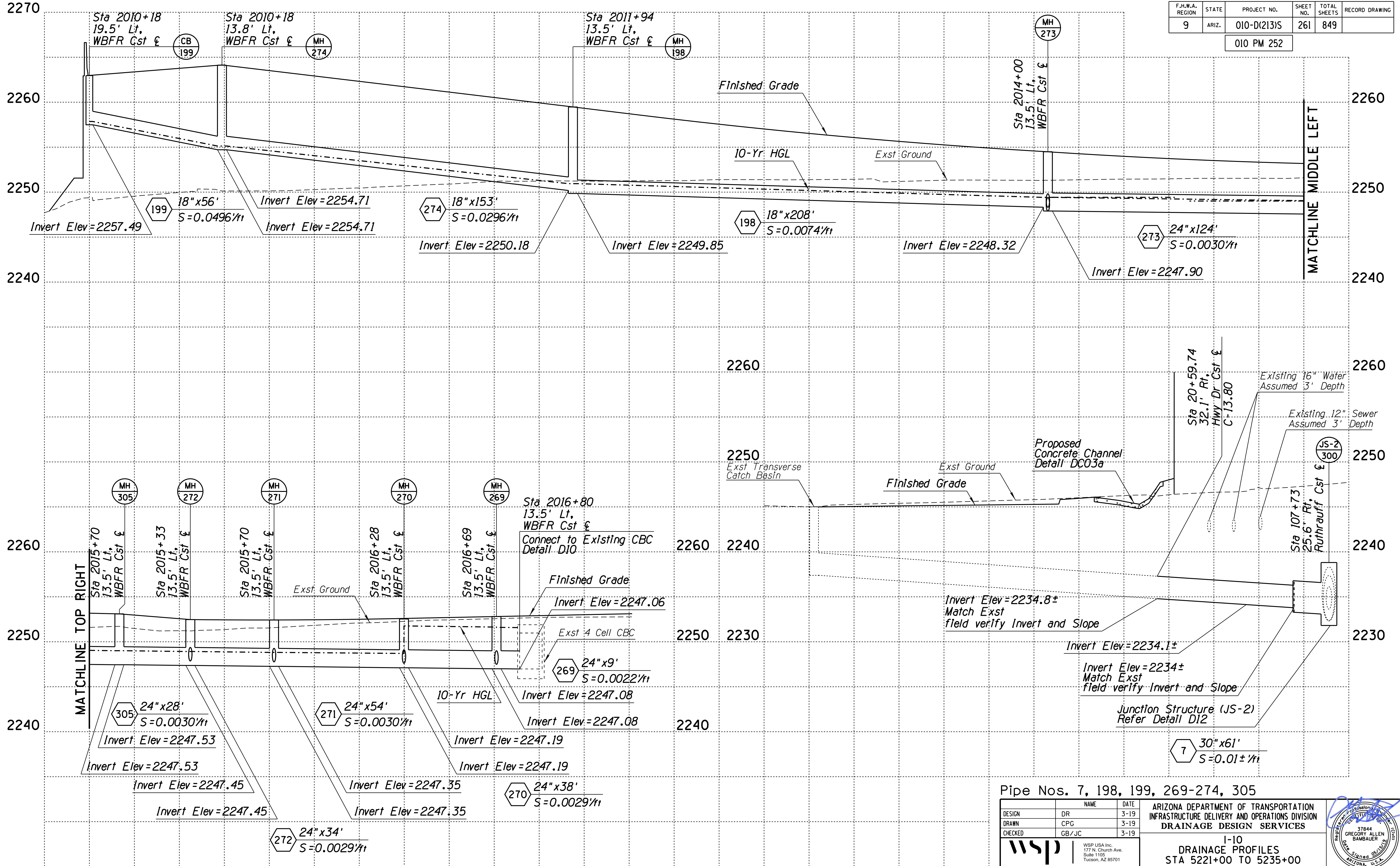
Pipe Nos. 197, 200-203, 207, 208, 238, 243, 244

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		I-10 DRAINAGE PROFILES STA 5221+00 TO 5235+00	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
			DWG NO. D-2.17		
			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-D(213)S	261	849	

010 PM 252



Pipe Nos. 7, 198, 199, 269-274, 305

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DR		3-19	
DRAWN	CPG	3-19	
CHECKED	GB/JC	3-19	

**WSP** WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701

**I-10 DRAINAGE PROFILES STA 5221+00 TO 5235+00**

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

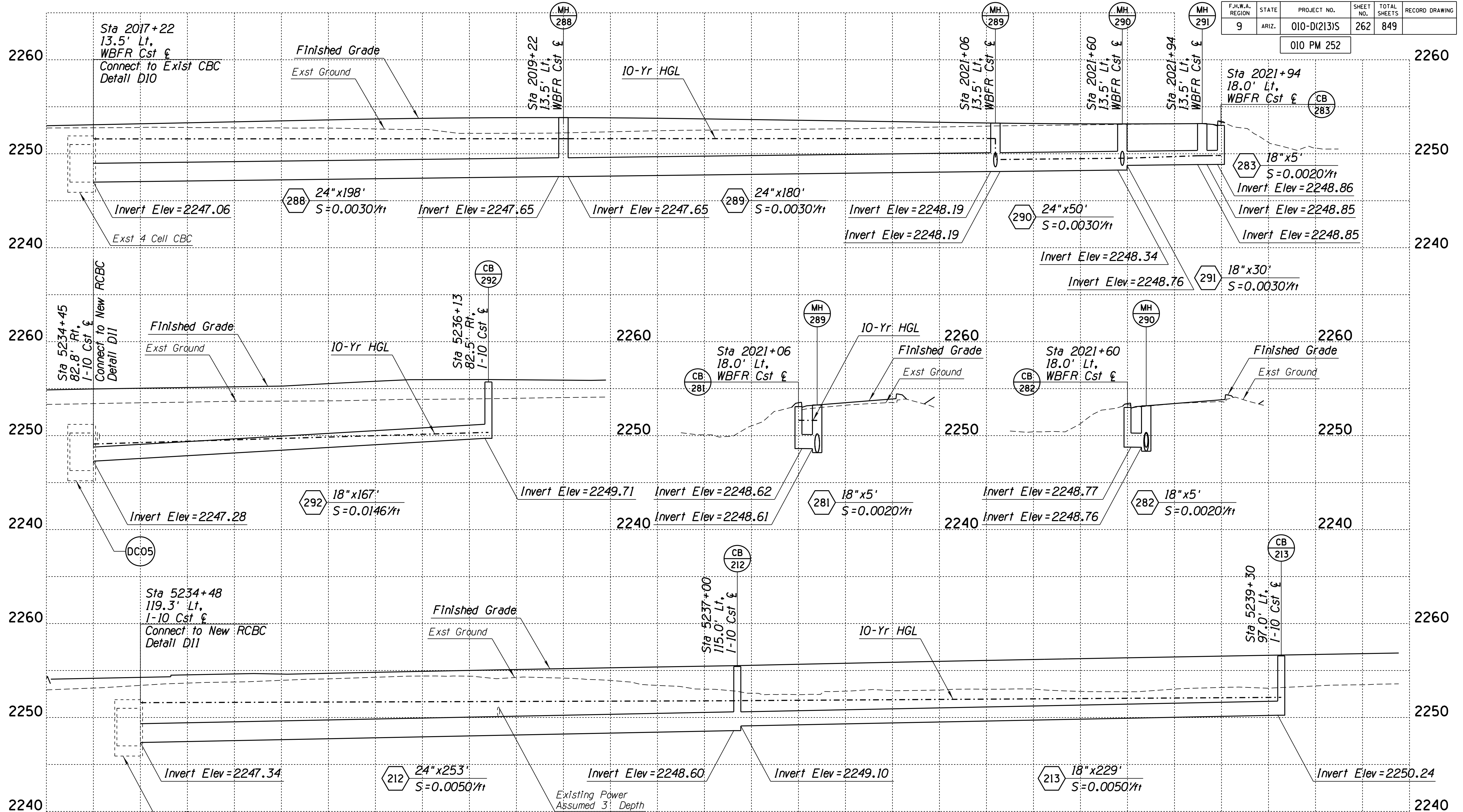
TRACS NO. H 8480 OIC PROJECT NO. 010-D(213)S

EXPIRES 9/30/2020 DWG NO. D-2.18

Signature: GREGORY ALLEN BAMBAUER

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	262	849	

010 PM 252



Pipe Nos. 281-283, 288-292, 212, 213

DESIGN	DR	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	GB/JC	DATE	3-19

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

**wsp** WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

**1-10 DRAINAGE PROFILES**  
STA 5235+00 TO 5249+00

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

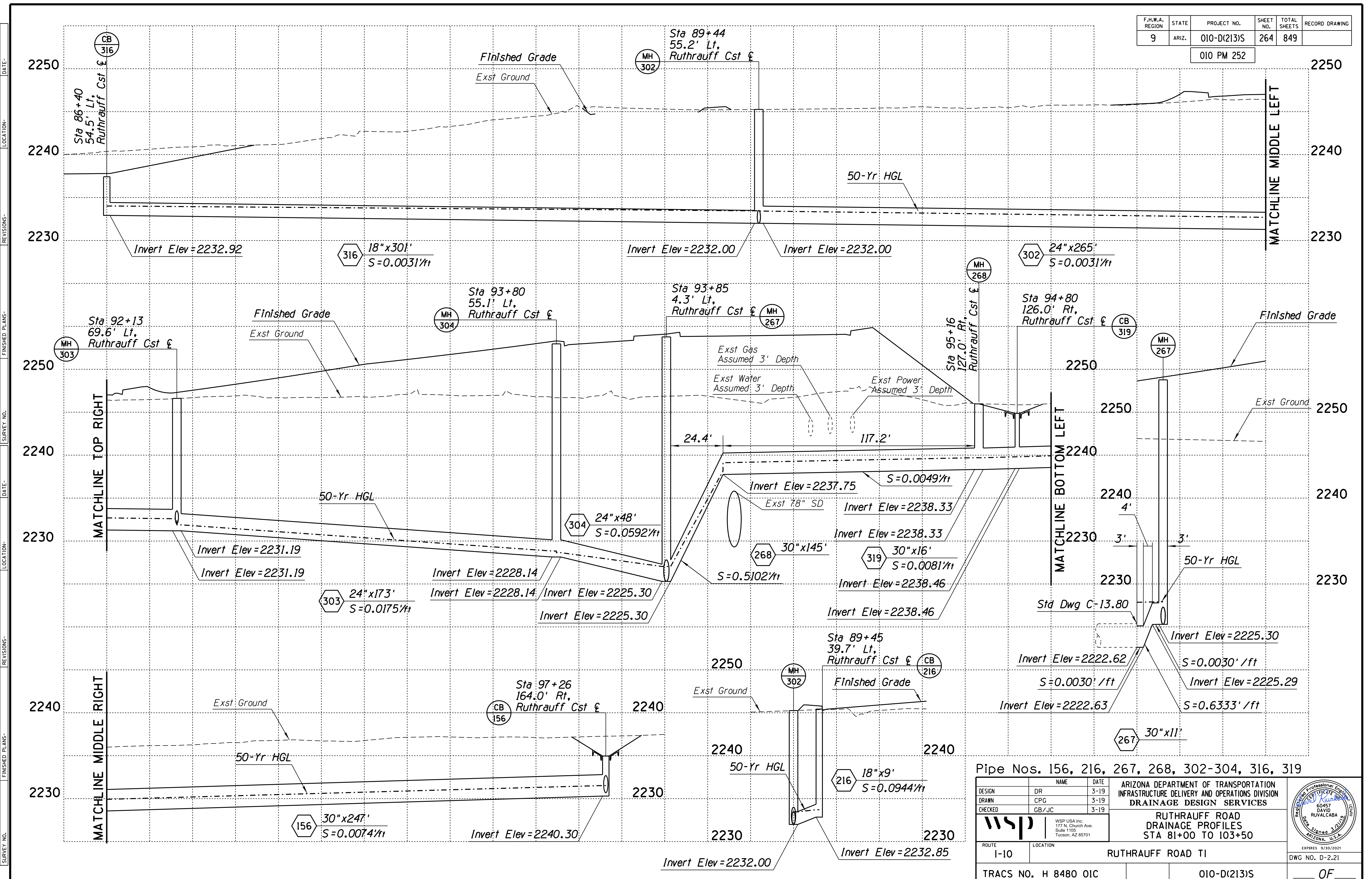
TRACS NO. H 8480 OIC 010-D(213)S OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	264	849	

010 PM 252

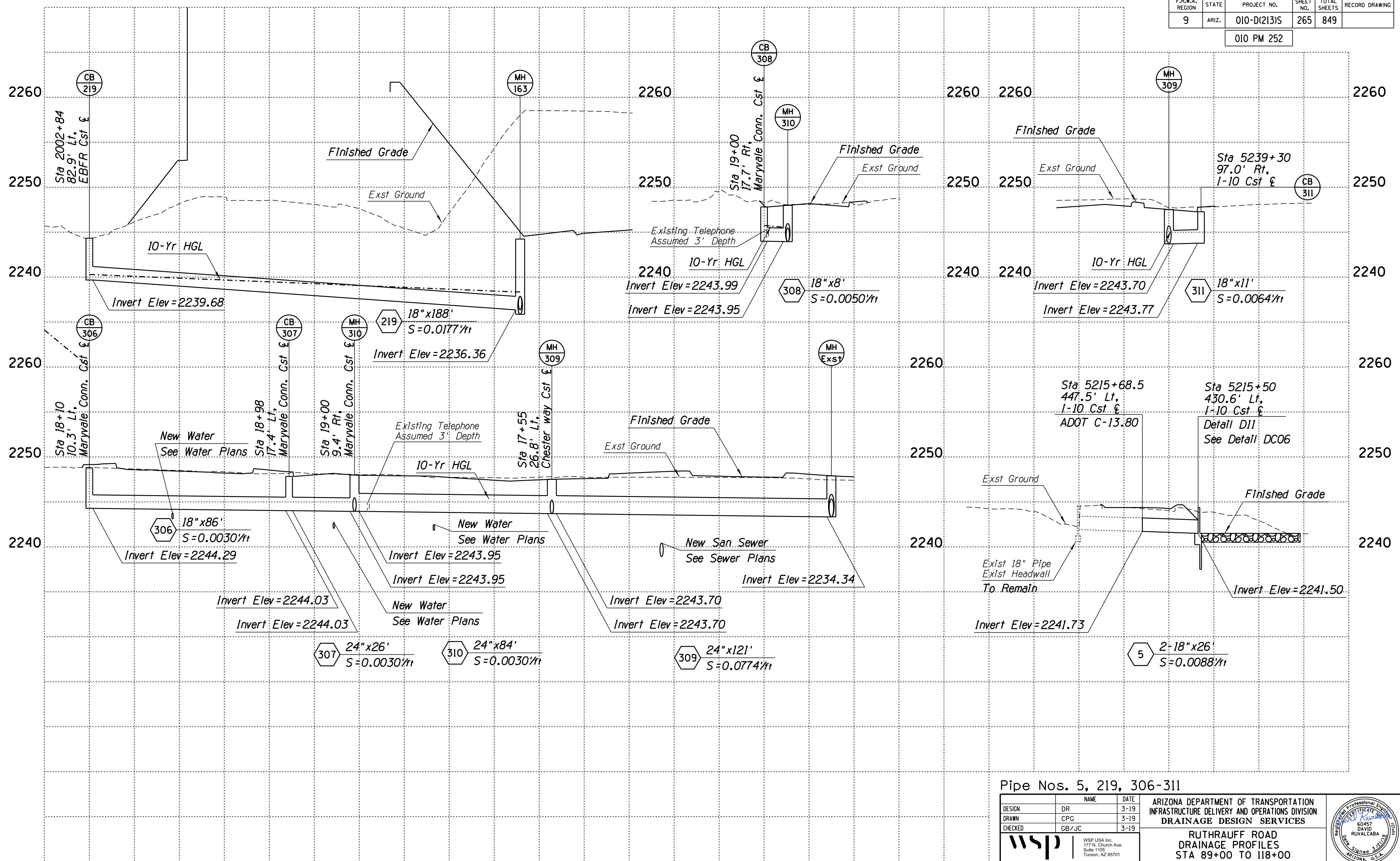


Pipe Nos. 156, 216, 267, 268, 302-304, 316, 319

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE: I-10    LOCATION: RUTHRAUFF ROAD TI		RUTHRAUFF ROAD DRAINAGE PROFILES STA 81+00 TO 103+50		
TRACS NO. H 8480 OIC			010-D(213)S	DWG NO. D-2.21 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	265	849	

010 PM 252



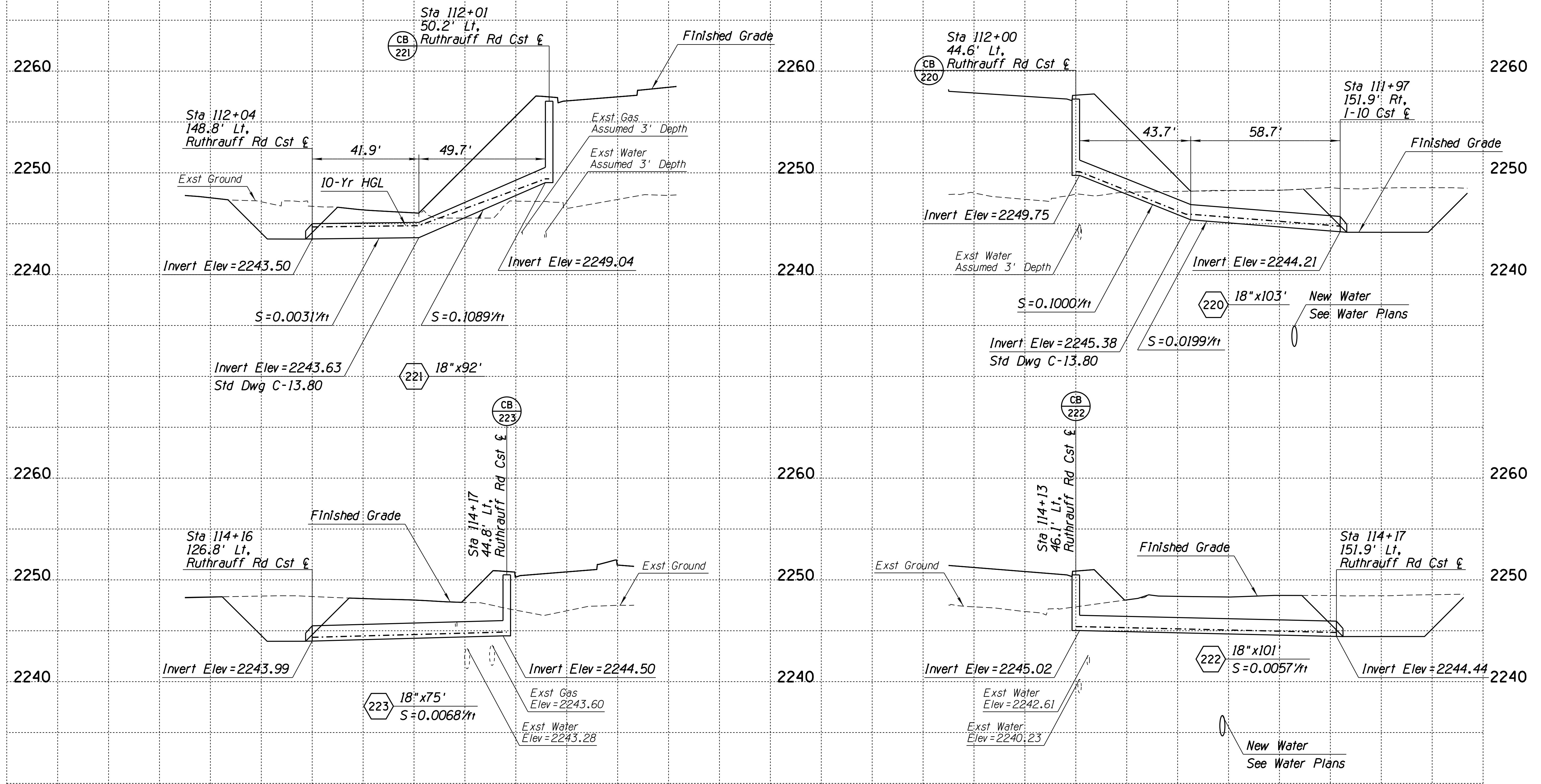
Pipe Nos. 5, 219, 306-311

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>RUTHRAUFF ROAD          DRAINAGE PROFILES          STA 89+00 TO 118+00</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	266	849	

010 PM 252

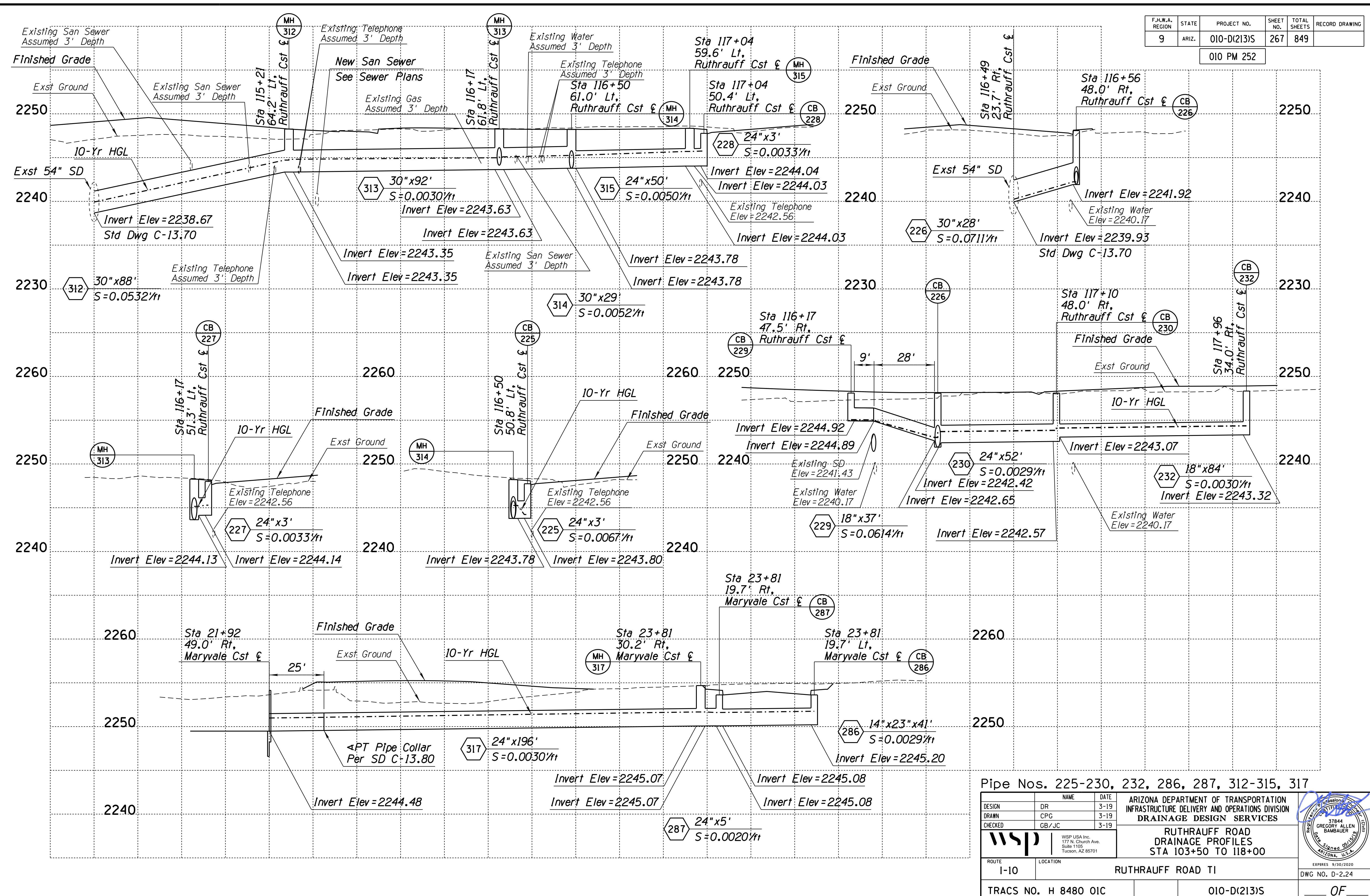


Pipe Nos. 220-223

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>RUTHRAUFF ROAD          DRAINAGE PROFILES          STA 103+50 TO 118+00</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		EXPIRES 9/30/2021 DWG NO. D-2.23 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	267	849	

010 PM 252



Pipe Nos. 225-230, 232, 286, 287, 312-315, 317

DESIGN	DR	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	GB/JC	DATE	3-19

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

**RUTHRAUFF ROAD  
DRAINAGE PROFILES  
STA 103+50 TO 118+00**

WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

17844  
GREGORY ALLEN  
BAMBAUER  
Professional Engineer  
No. 17844  
Arizona, U.S.A.

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC

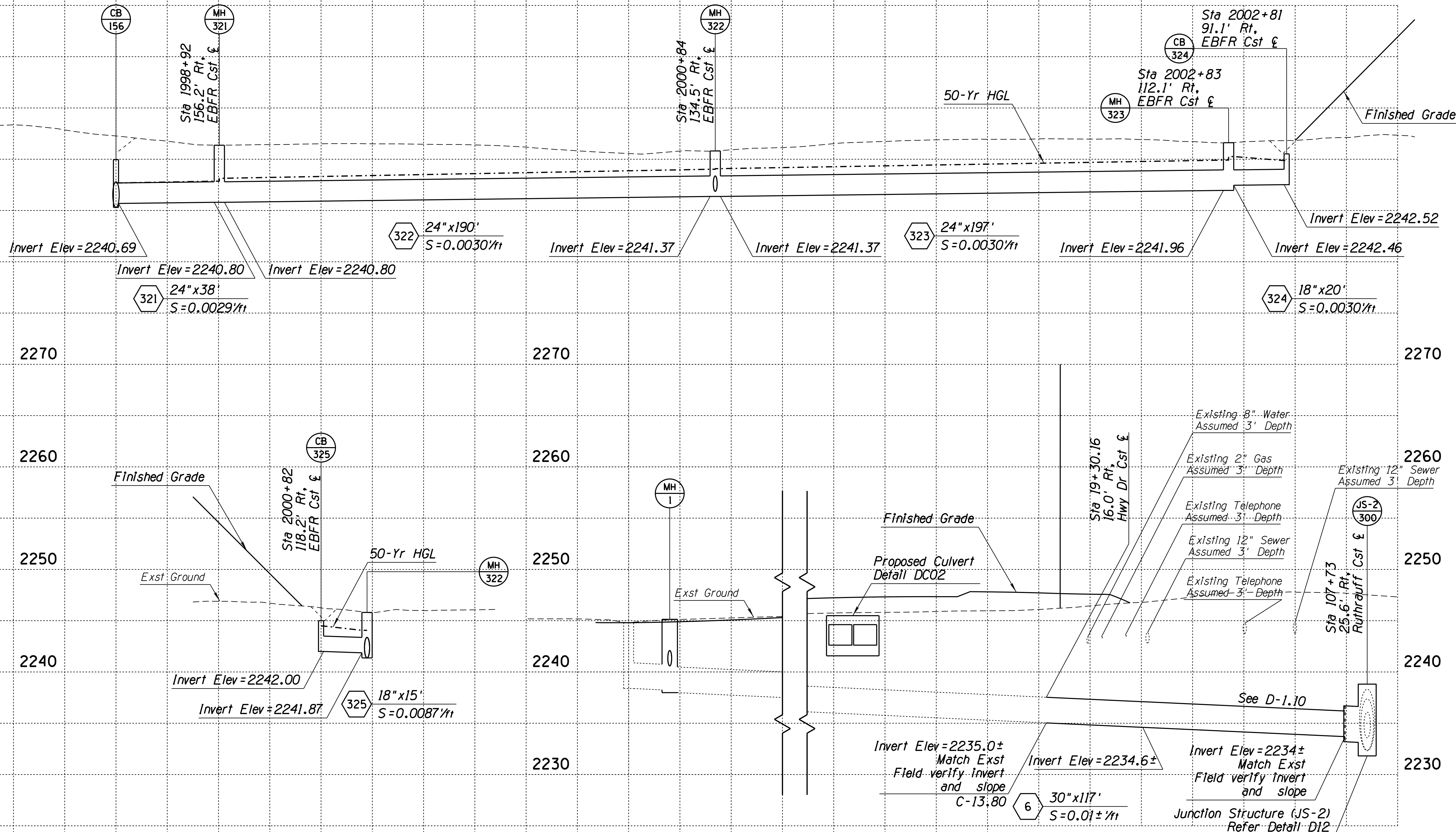
010-D(213)S

EXPRES 9/30/2020  
DWG NO. D-224

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	268	849	

010 PM 252



2270

2270

2270

2260

2260

2260

2250

2250

2250

2240

2240

2240

2230

2230

Pipe Nos. 6, 321-325

DESIGN	NAME	DATE
DR		3-19
DRAWN	CPG	3-19
CHECKED	GB/JC	3-19

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



I-10  
DRAINAGE PROFILES  
STA 5207+00 TO 5221+00



ROUTE 1-10

LOCATION RUTHAUFF ROAD TI

EXPIRES 9/30/2021  
DWG NO. D-2.25

TRACS NO. H 8480 OIC

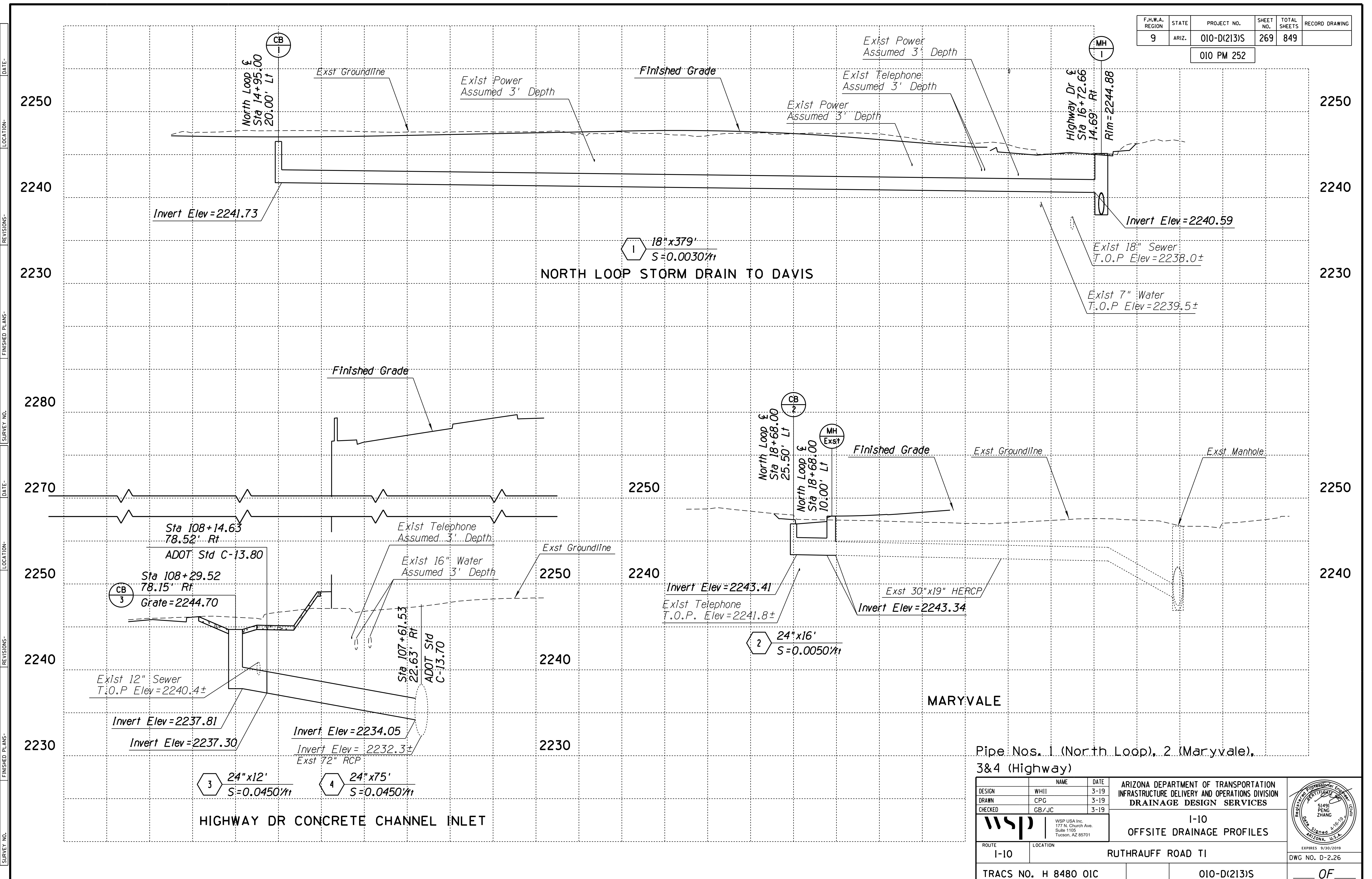
010-D(213)S

OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	269	849	

010 PM 252



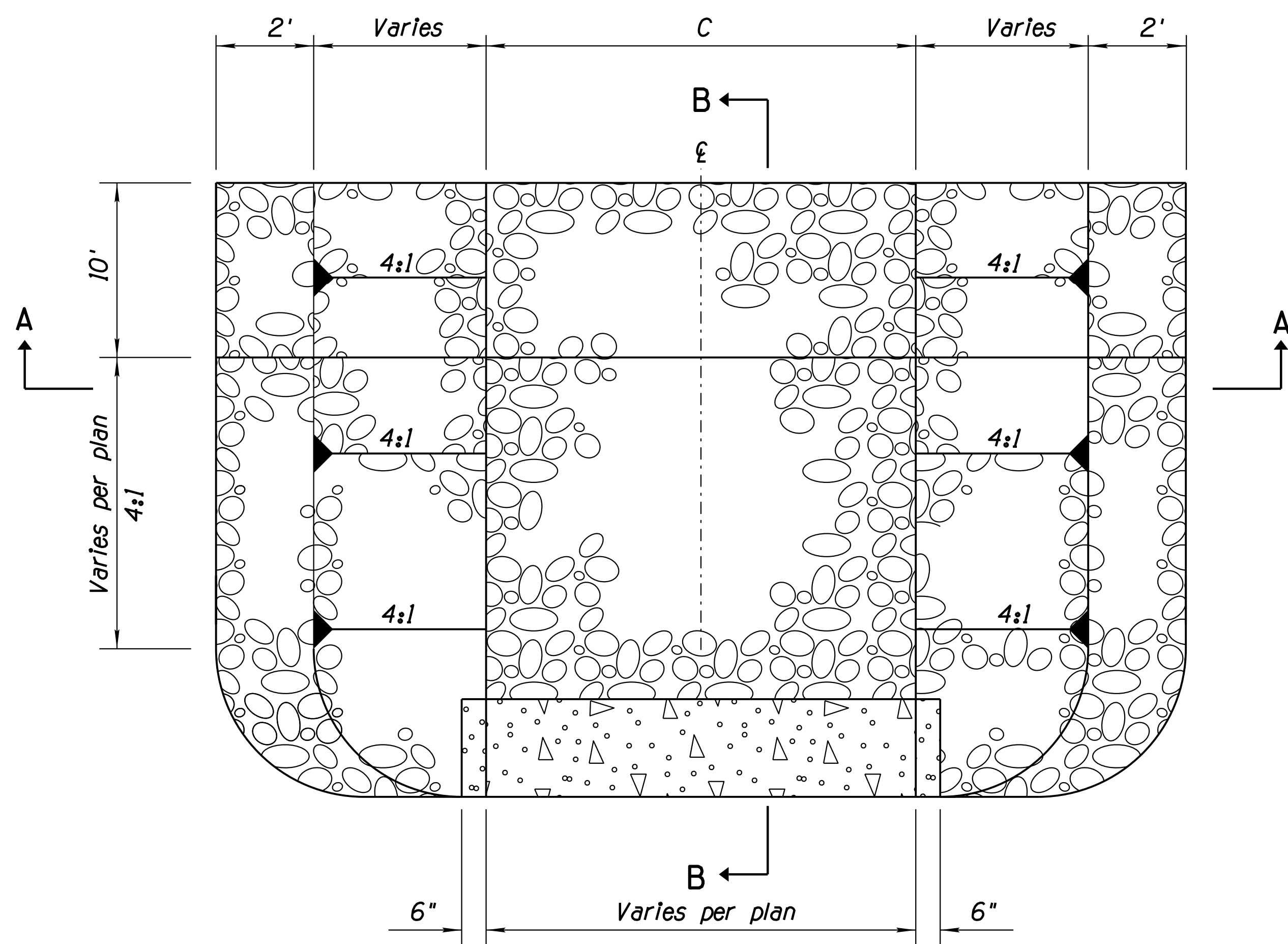
Pipe Nos. 1 (North Loop), 2 (Maryvale), 3&4 (Highway)

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
ROUTE		LOCATION		I-10 RUTHRAUFF ROAD TI	
1-10					
TRACS NO. H 8480 OIC				010-D(213)S	OF

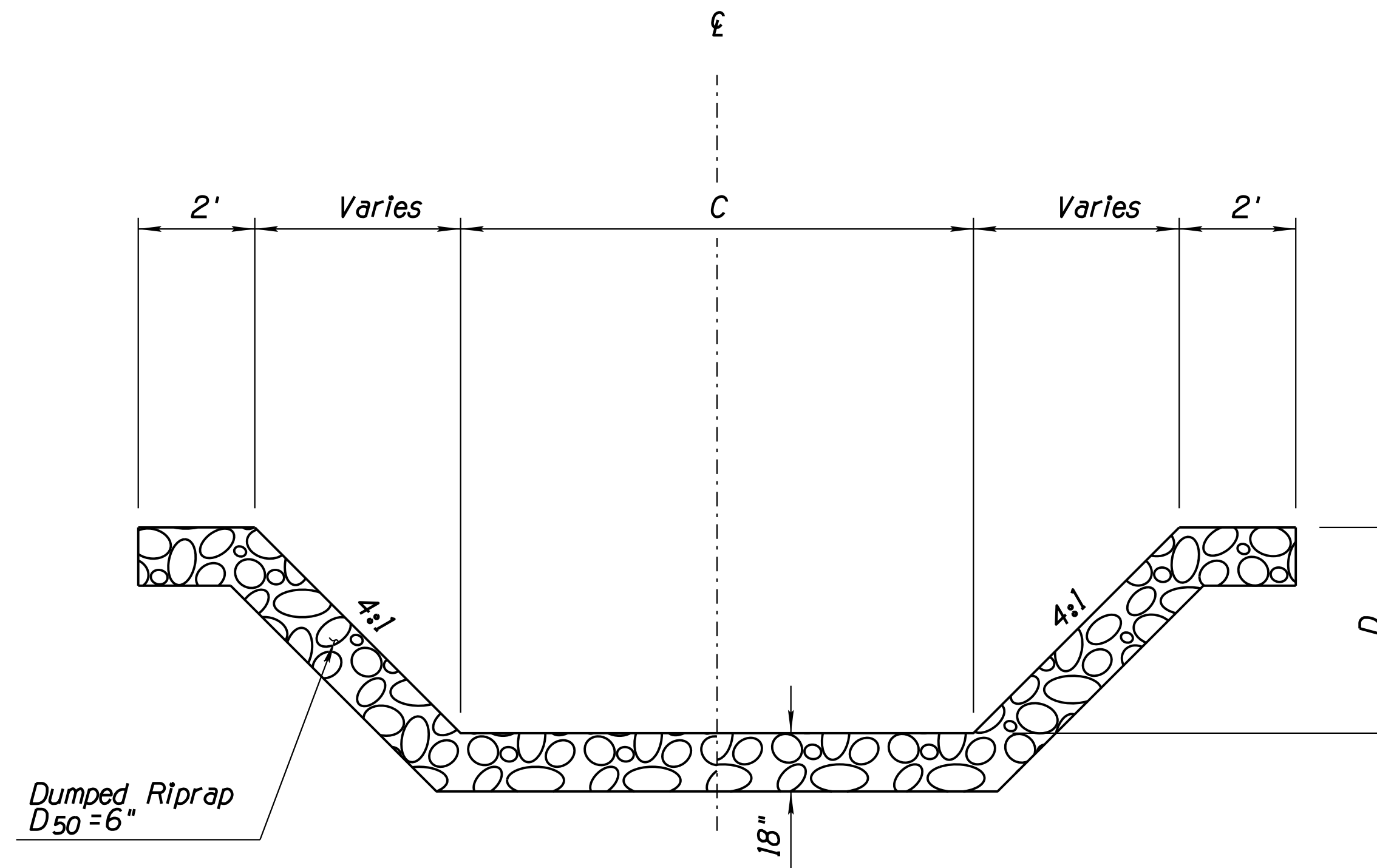


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	284	849	

010 PM 252

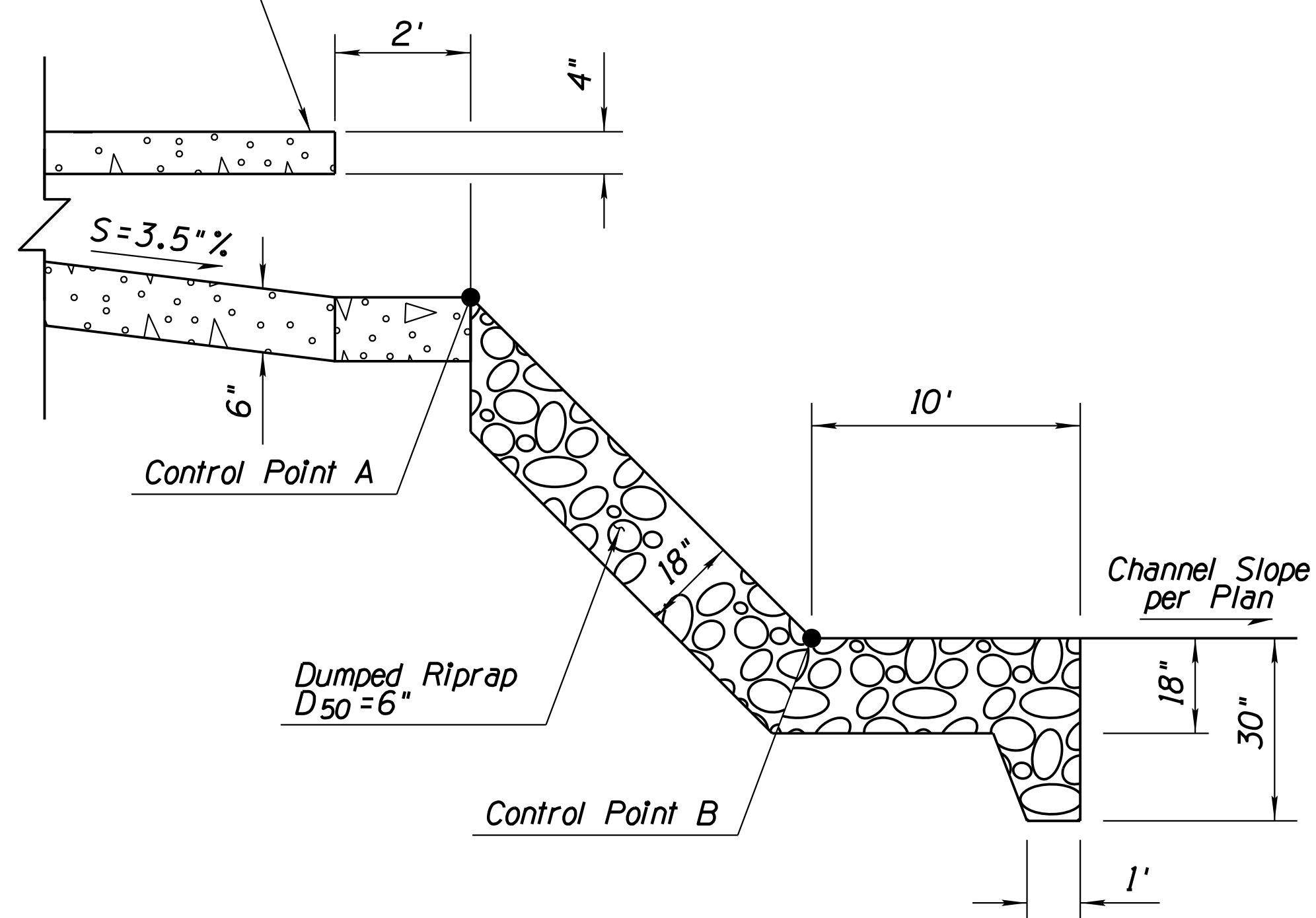


**PLAN VIEW**  
N.T.S.



**SECTION A-A**  
N.T.S.

PC Detail No. 205.5  
Sidewalk Scupper Type 3



**SECTION B-B**  
N.T.S.

Scupper ID	CONTROL POINT		C (ft)	D (ft)	Riprap Vol (CY)
	A	B			
SC01	Sta 112+36.93 266.27' Lt Elev = 2245.64	Sta 112+36.88 256.27' Lt Elev = 2245.09	12	2.5	31
SC02	Sta 114+52.58 131.95' Lt Elev = 2245.97	Sta 114+30.08 135.39' Lt Elev = 2244.00	12	2.5	58
SC03	Sta 115+38.58 102.22' Rt Elev = 2246.93	Sta 115+62.02 115.32' Rt Elev = 2245.42	12	2.0	83
SC04	Sta 114+65.97 118.88' Rt Elev = 2246.56	Sta 114+38.66 154.48' Rt Elev = 2244.47	8	2.5	48
SC05	N/A	N/A	--	--	--
SC06	N/A	N/A	--	--	--

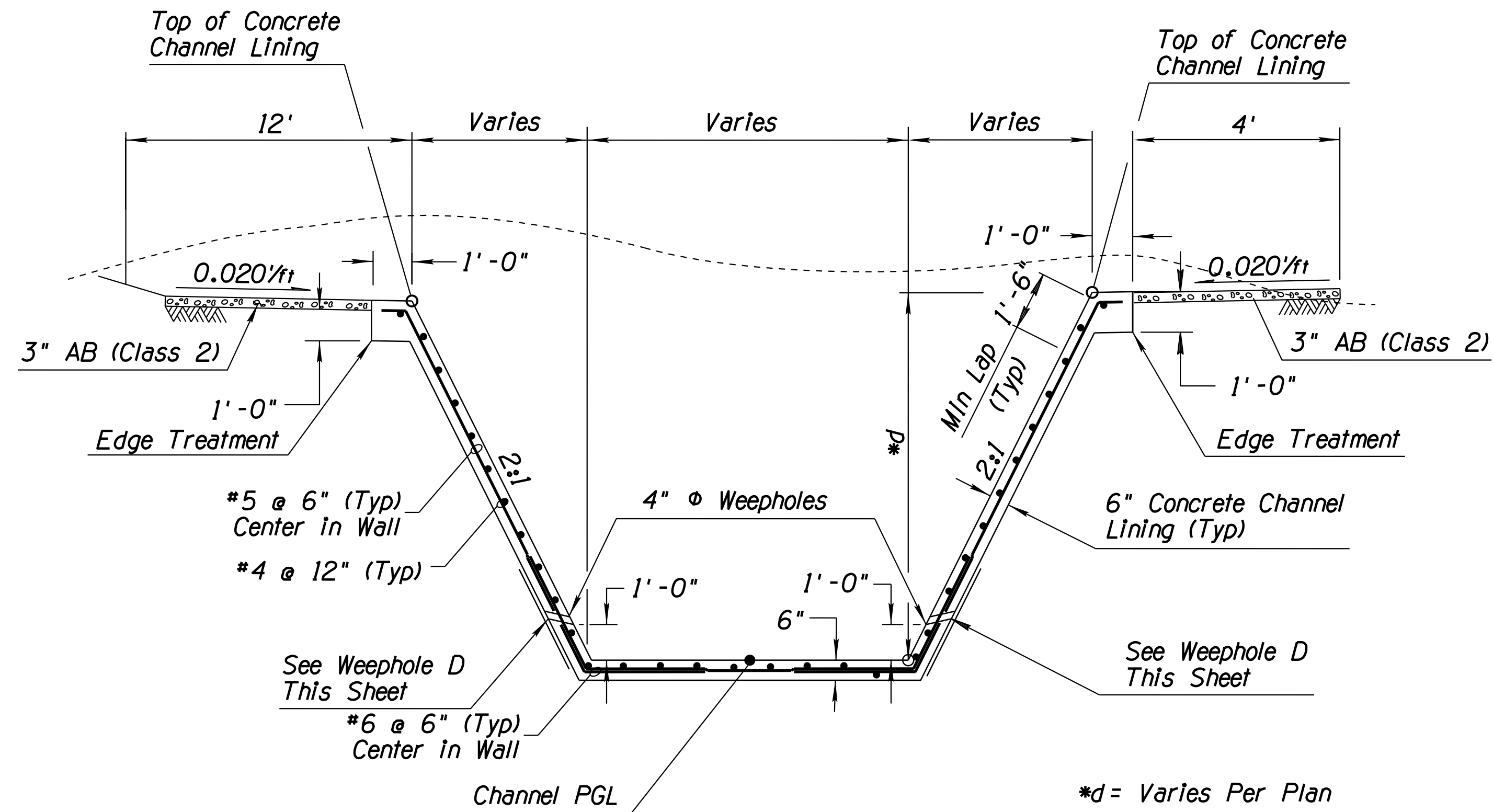
\* Station Offset per Ruthrauff Cst E.

Riprap Gradation, D <sub>50</sub> =6"	
%Passing	Size (in)
100	9
85	8
50	6
15	3

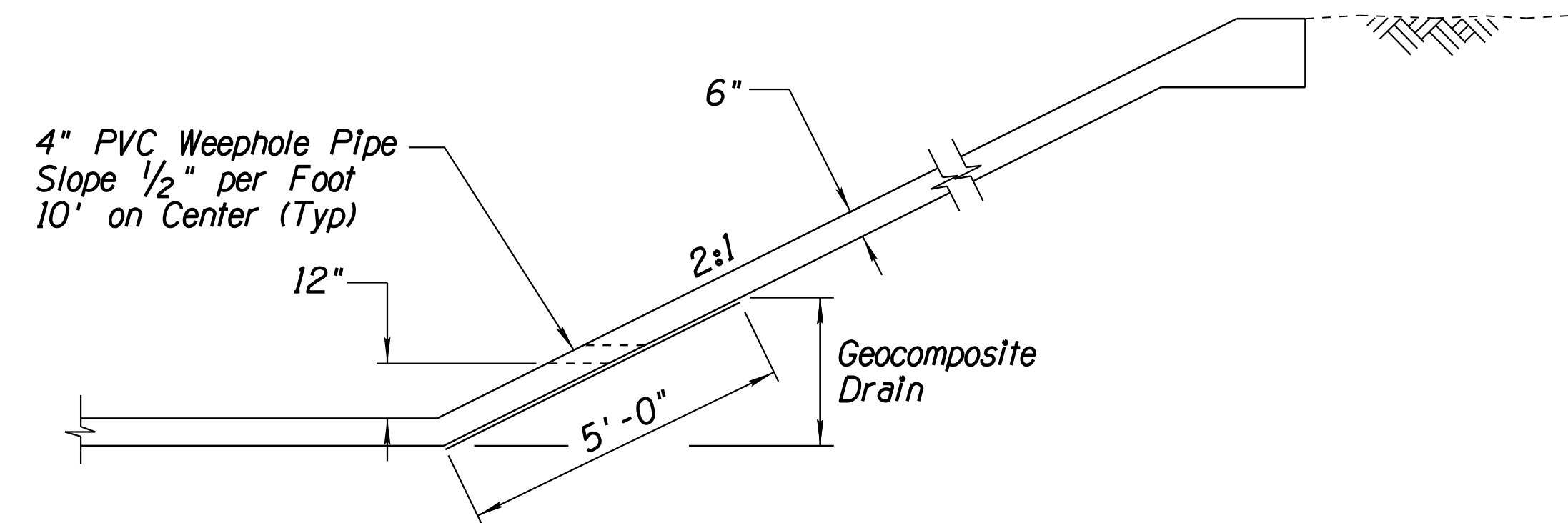
**DETAIL D5**

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>DRAINAGE DETAIL</b> <b>SPILLWAYS</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S		OF

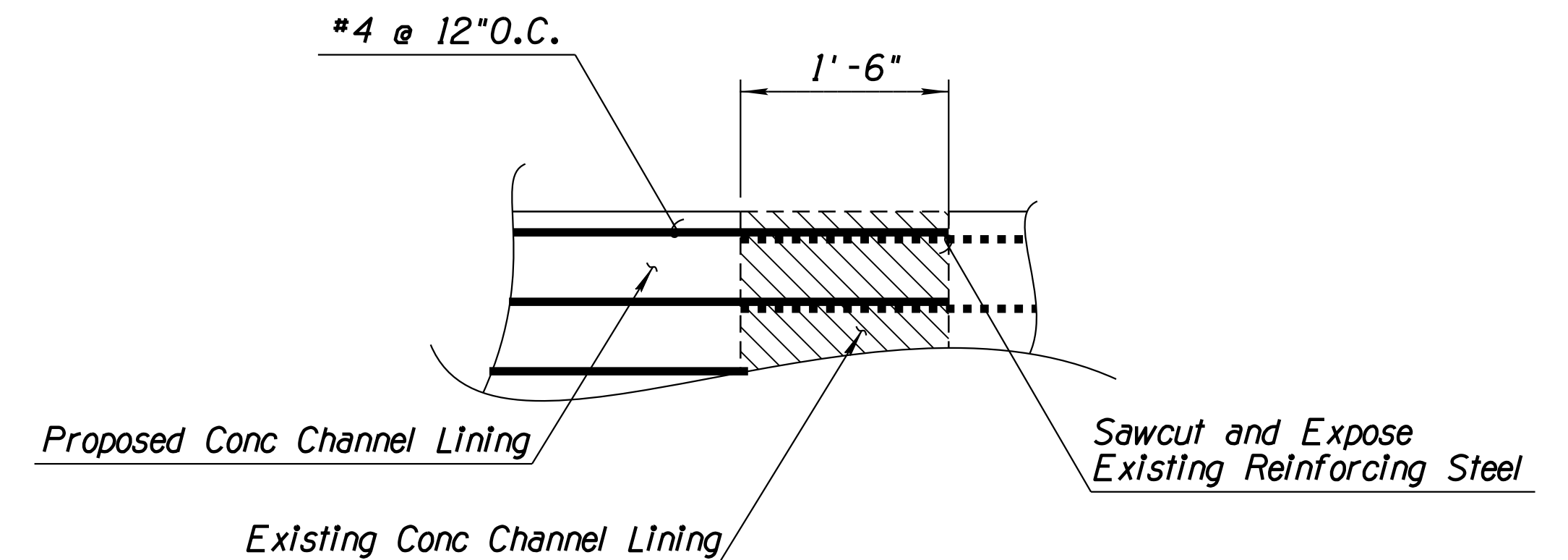
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.		280		



**TYPICAL CHANNEL SECTION**  
NTS



**WEEPHOLE DETAIL**  
NTS

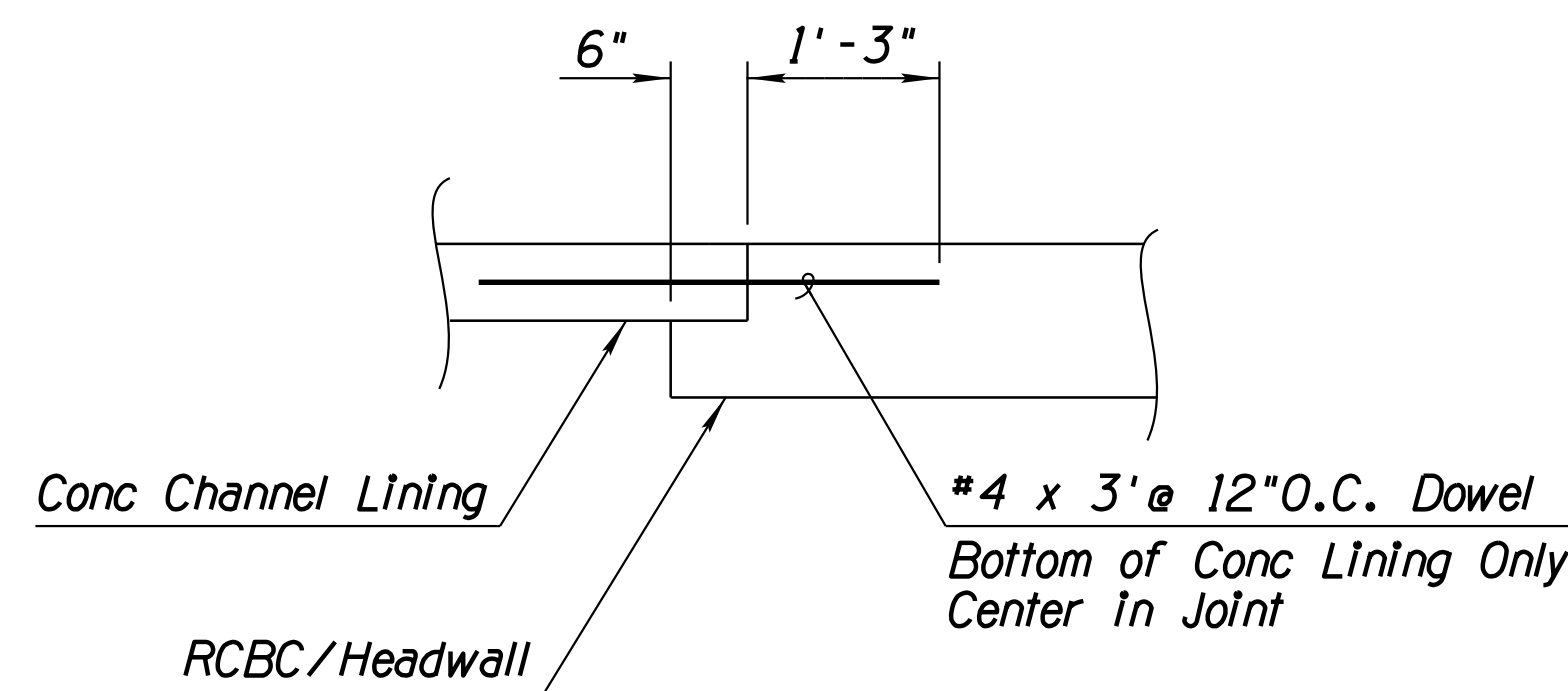


**CONNECTION TO EXISTING CONCRETE CHANNEL**

PLAN VIEW  
NTS

**NOTES:**

1. Weep hole Typical along Channel and Transitions.
2. See Special Provisions for Concrete Lining and Geo Composite Drain.
3. Compact Subgrade under Conc Channel Lining to 95% of Maximum Density.
4. All Reinforcing Steel Shall be Grade 60.
5. Concrete Shall Be Class "S" ( $f'_c = 3000\text{psi}$ ).
6. Add bit. joint filler between wingwall and channel side slopes.
7. See Standard drawing for pipe connection to channel, C-13.76.



**CONNECTION TO RCBC/HEADWALL**

PROFILE VIEW  
NTS

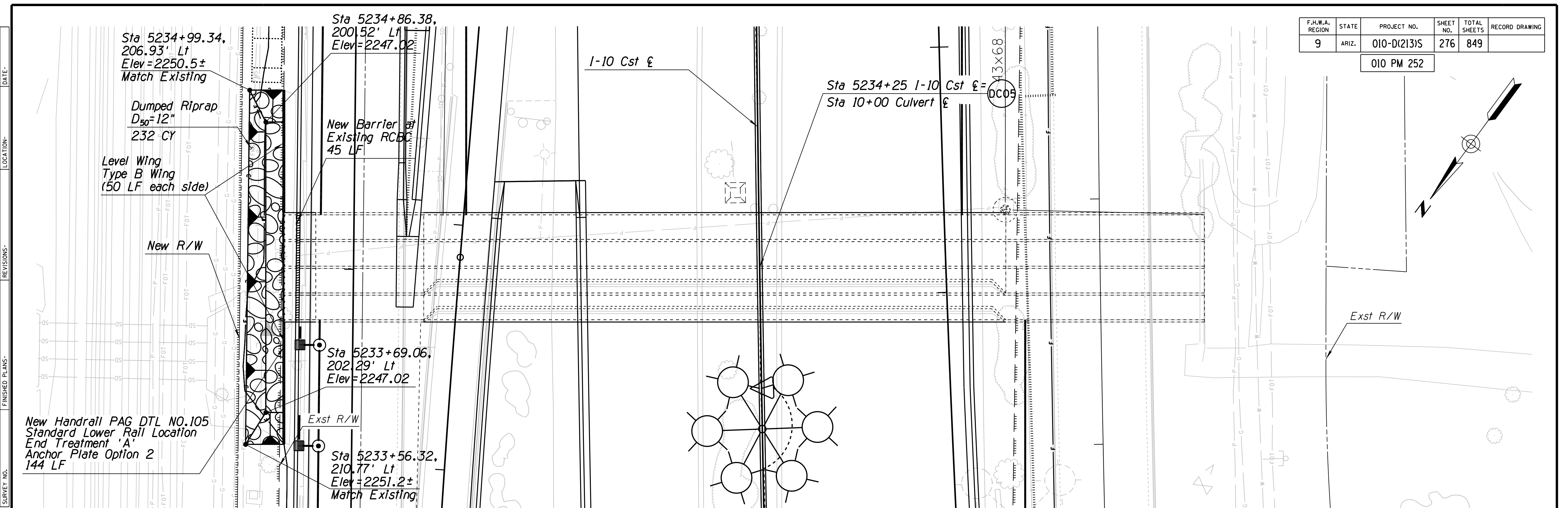
**DETAIL D2**  
CONCRETE CHANNEL LINING

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION	
DRAWN	WHI		DRAINAGE DESIGN SERVICES	
CHECKED			DRAINAGE DETAIL CONCRETE CHANNEL LINING	
ROUTE	LOCATION			EXPRES 9/30/2019 DWG NO. D-5.02
				OF

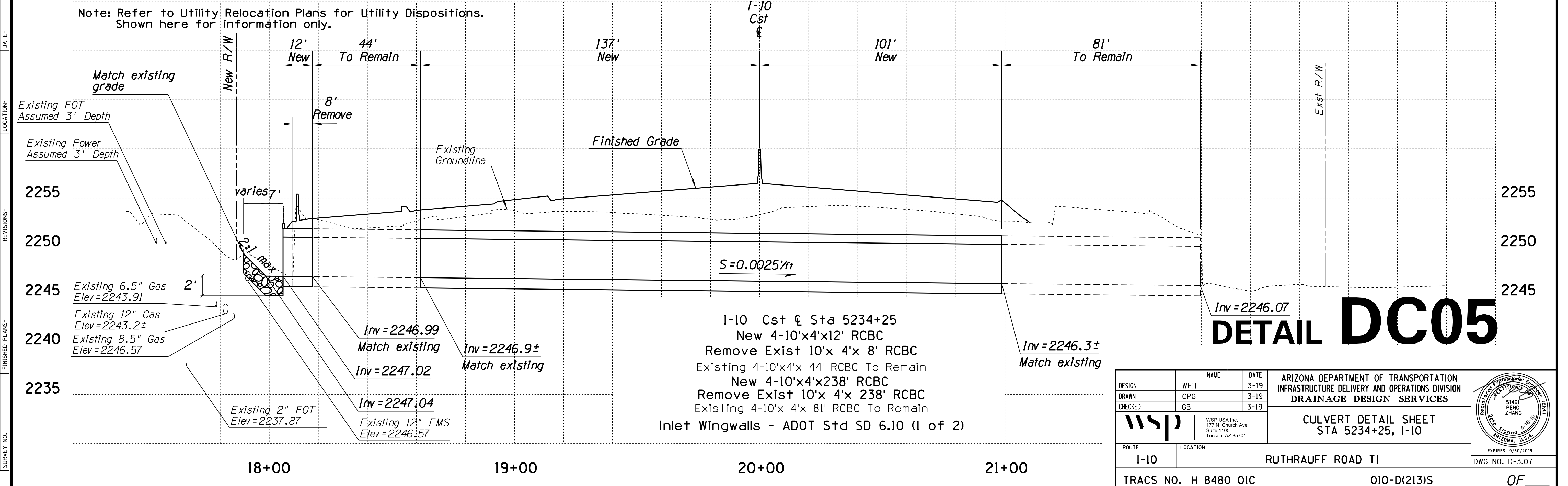
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	276	849	

010 PM 252



Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.



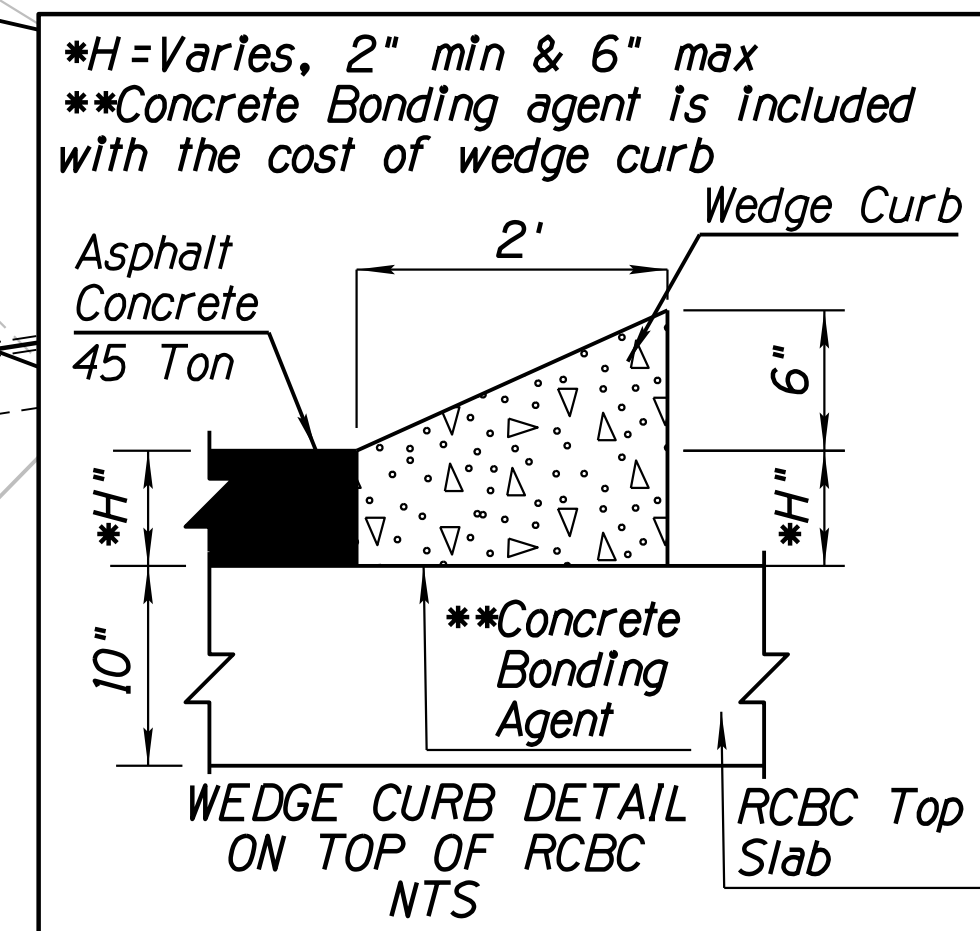
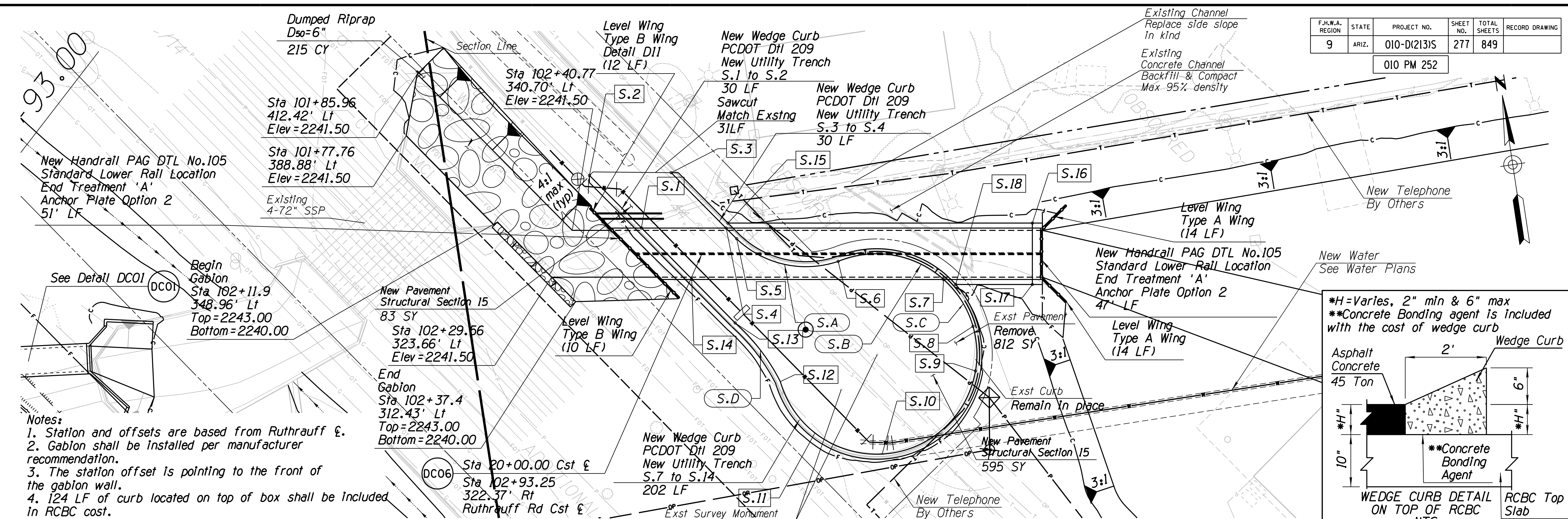
1-10 Cst & Sta 5234+25  
 New 4-10'x4'x12' RCBC  
 Remove Exist 10'x 4'x 8' RCBC  
 Existing 4-10'x4'x 44' RCBC To Remain  
 New 4-10'x4'x238' RCBC  
 Remove Exist 10'x 4'x 238' RCBC  
 Existing 4-10'x 4'x 81' RCBC To Remain  
 Inlet Wingwalls - ADOT Std SD 6.10 (1 of 2)

# DETAIL DC05

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
<b>wsp</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CULVERT DETAIL SHEET STA 5234+25, I-10		EXPIRES 9/30/2019 DWG NO. D-3.07	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD T1	TRACS NO. H 8480 OIC	
				010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	277	849	

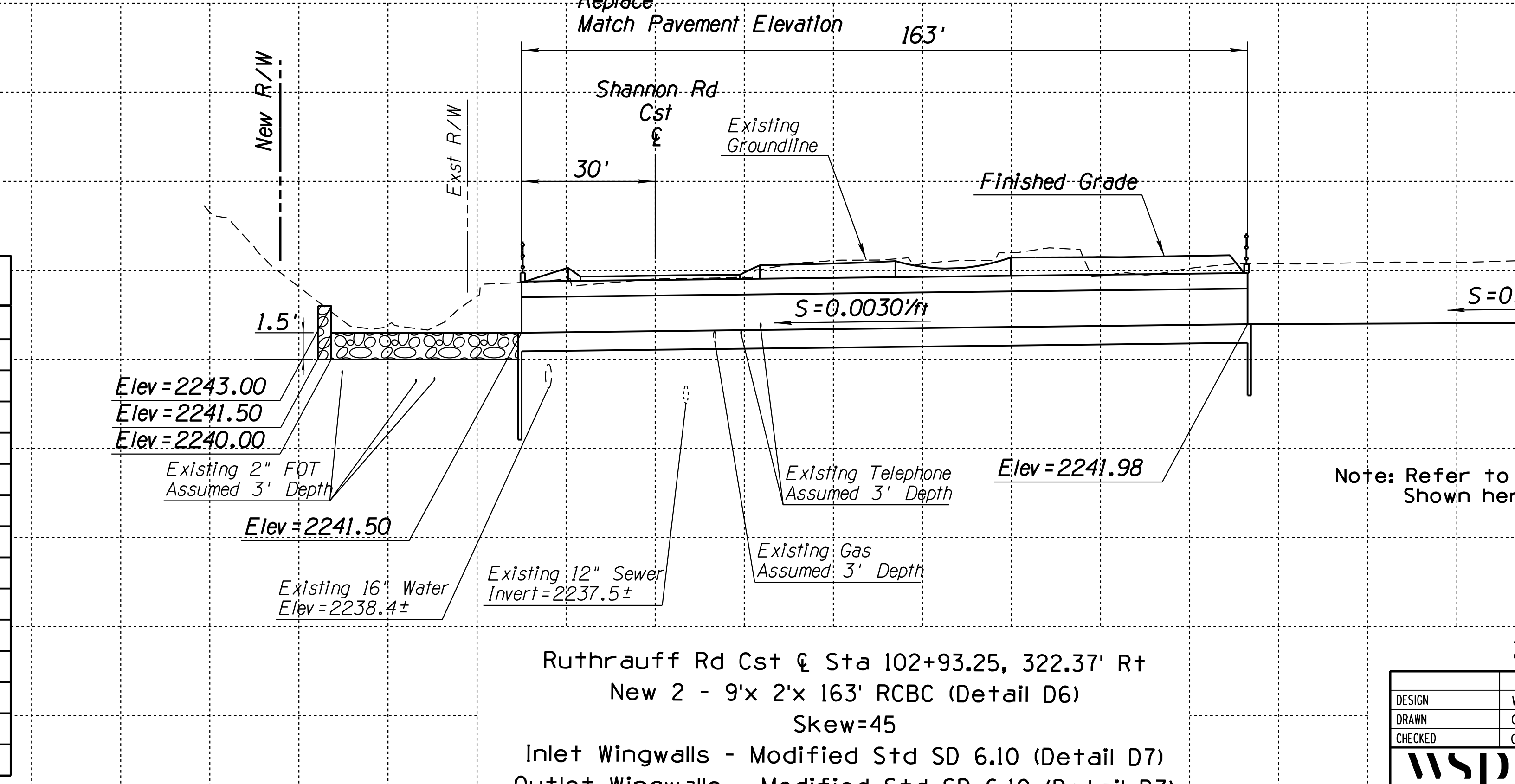
010 PM 252



Curve Data			
Curve	Radius	Length	
S.A	40'	43.71'	
S.B	40'	45.10'	
S.C	40'	147.97'	
S.D	80'	29.72'	

Shannon Rd Pavement Layout			
ID	Sta	Offset	Elevation
S.1	102+68.12	337.01', Lt	2244.60
S.2	102+51.19	361.17', Lt	2243.96±
S.3	102+83.54	356.81', Lt	2244.53±
S.4	103+01.48	331.38', Lt	2244.69
S.5	103+04.94	326.50', Lt	2244.74
S.6	103+44.99	311.02', Lt	2244.98
S.7	103+83.61	296.72', Lt	2245.25
S.8	103+84.44	250.39', Lt	2245.38
S.9	103+62.64	262.62', Lt	2245.52
S.10	103+40.79	274.88', Lt	2245.22
S.11	103+19.03	287.09', Lt	2245.05
S.12	102+97.23	299.33', Lt	2245.00
S.13	102+92.56	301.95', Lt	2244.85
S.14	102+84.53	313.45', Lt	2244.77



Fill on top of RCBC			
ID	Sta	Offset	Elevation
S.15	103+02.55	333.22', Lt	2245.18
S.16	104+22.30	313.00', Lt	2245.85
S.17	104+18.23	288.85', Lt	2245.85
S.18	103+88.08	293.94', Lt	2245.75

Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

# DETAIL DC06

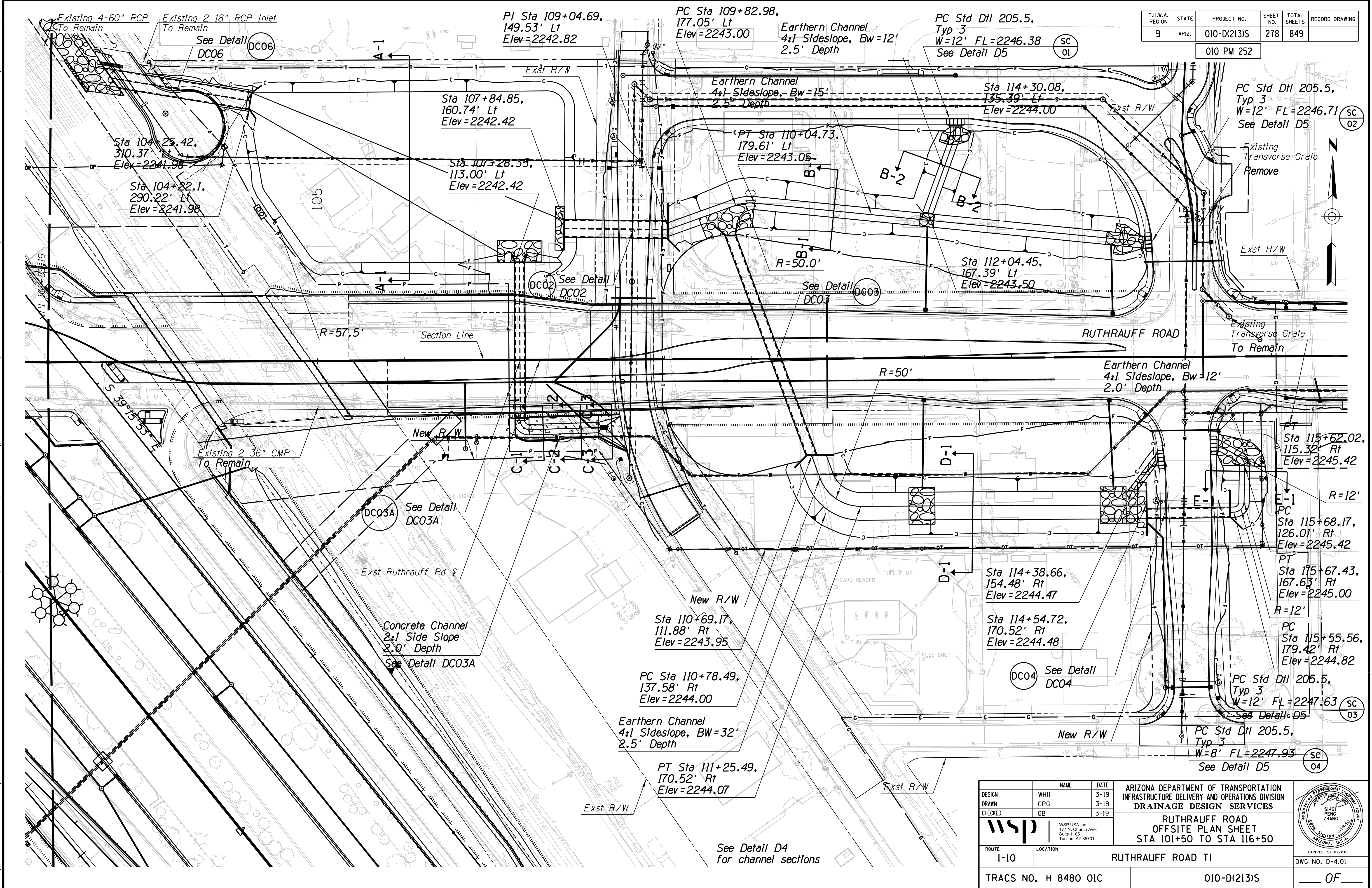
Ruthrauff Rd Cst  $\xi$  Sta 102+93.25, 322.37' Rt  
 New 2 - 9'x 2'x 163' RCBC (Detail D6)  
 Skew=45  
 Inlet Wingwalls - Modified Std SD 6.10 (Detail D7)  
 Outlet Wingwalls - Modified Std SD 6.10 (Detail D7)

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
wsp		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CULVERT DETAIL SHEET SHANNON RD	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	DWG NO. D-3.08	
TRACS NO. H 8480 OIC			010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	278	849	

010 PM 252



PC Std Dtl 205.5, Typ 3  
W=12' FL=2246.71 SC 02  
See Detail D5

Sta 115+62.02, 115.32' Rt, Elev = 2245.42  
R=12'  
PC Sta 115+68.17, 126.01' Rt, Elev = 2245.42  
PT Sta 115+67.43, 167.63' Rt, Elev = 2245.00  
R=12'  
PC Sta 115+55.56, 179.42' Rt, Elev = 2244.82

PC Std Dtl 205.5, Typ 3  
W=12' FL=2247.63 SC 03  
See Detail D5  
PC Std Dtl 205.5, Typ 3  
W=8' FL=2247.93 SC 04  
See Detail D5

PC Sta 110+78.49, 137.58' Rt, Elev = 2244.00  
Earthen Channel  
4:1 Sideslope, BW=32'  
2.5' Depth  
PT Sta 111+25.49, 170.52' Rt, Elev = 2244.07

Sta 114+38.66, 154.48' Rt, Elev = 2244.47  
Sta 114+54.72, 170.52' Rt, Elev = 2244.48  
DC04 See Detail DC04

Sta 104+25.42, 310.37' Lt, Elev = 2241.98  
Sta 104+22.1, 290.22' Lt, Elev = 2241.98

Sta 107+84.85, 160.74' Lt, Elev = 2242.42  
Sta 107+28.35, 113.00' Lt, Elev = 2242.42

PI Sta 109+04.69, 149.53' Lt, Elev = 2242.82  
PC Sta 109+82.98, 177.05' Lt, Elev = 2243.00  
Earthen Channel  
4:1 Sideslope, BW=12'  
2.5' Depth

PC Std Dtl 205.5, Typ 3  
W=12' FL=2246.38 SC 01  
See Detail D5

DC03A See Detail DC03A

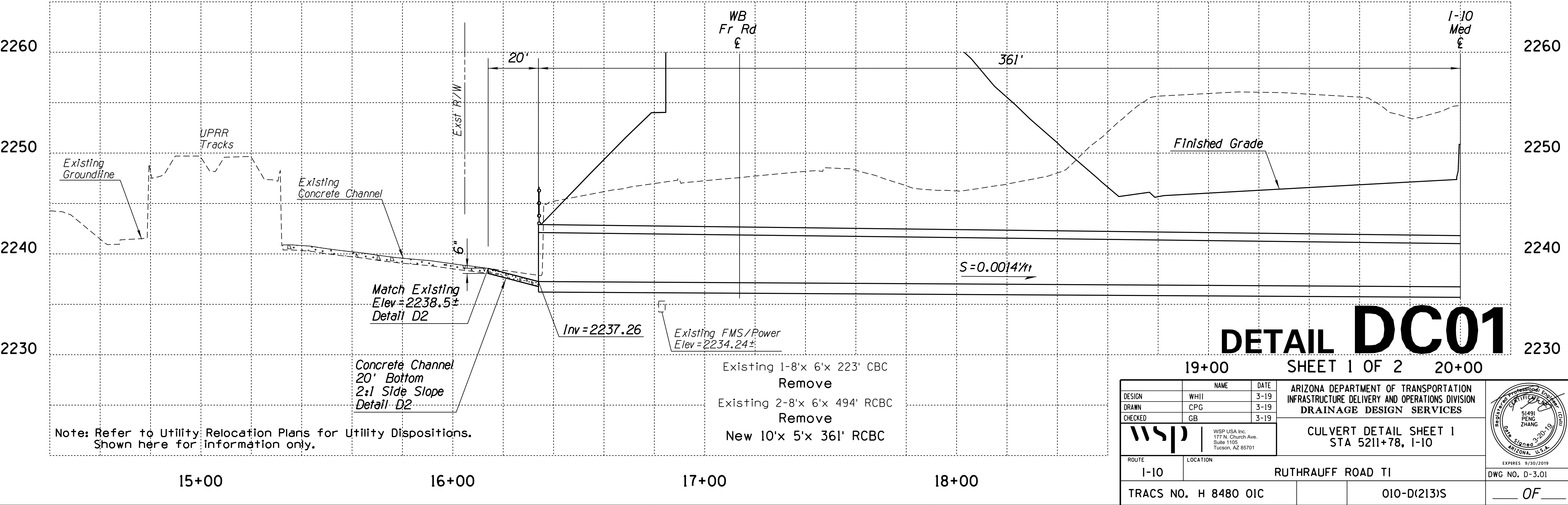
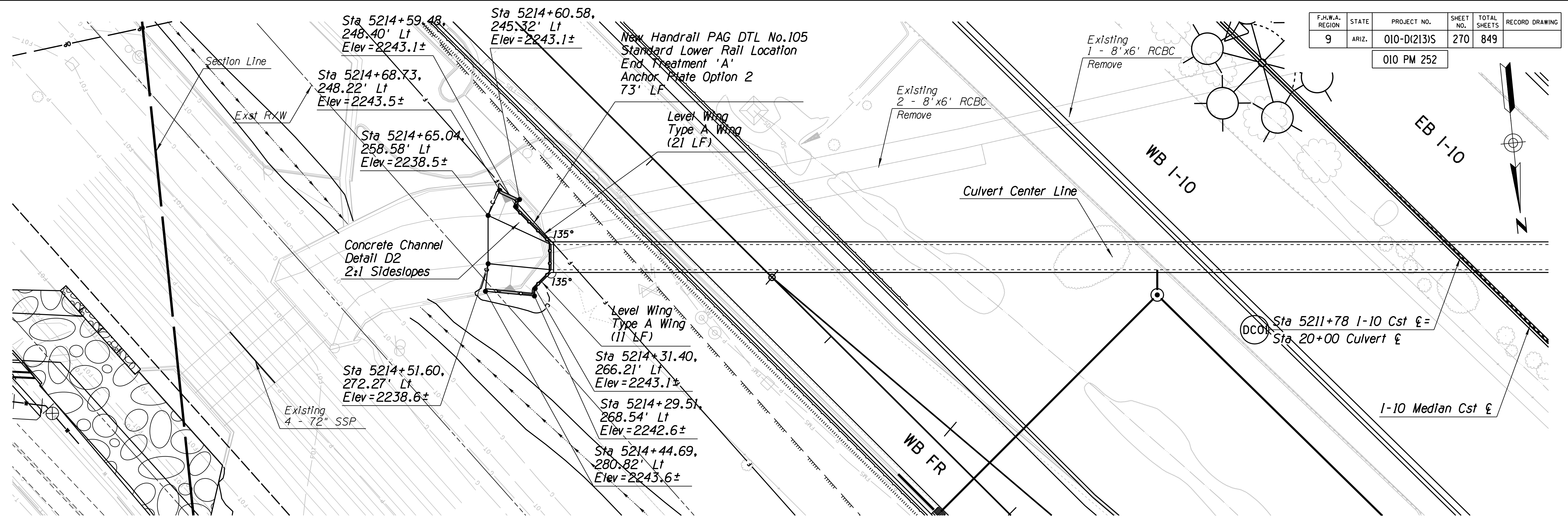
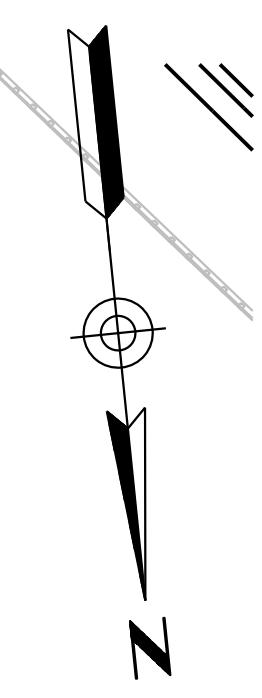
Concrete Channel  
2:1 Side Slope  
2.0' Depth  
See Detail DC03A

See Detail D4 for channel sections

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	WHI	3-19		
CHECKED	CPG	3-19		
			<b>RUTHRAUFF ROAD OFFSITE PLAN SHEET STA 101+50 TO STA 116+50</b>	
ROUTE	LOCATION			
TRACS NO. H 8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	270	849	

010 PM 252



# DETAIL DC01

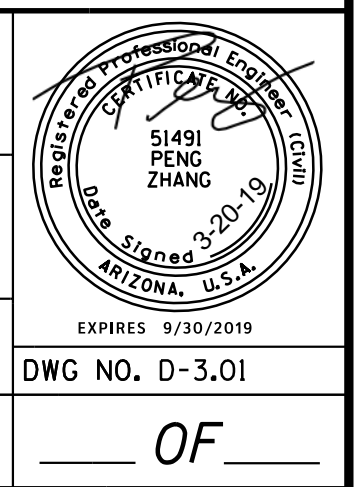
19+00 SHEET 1 OF 2 20+00

Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

DESIGN	WHI	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	GB	DATE	3-19

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

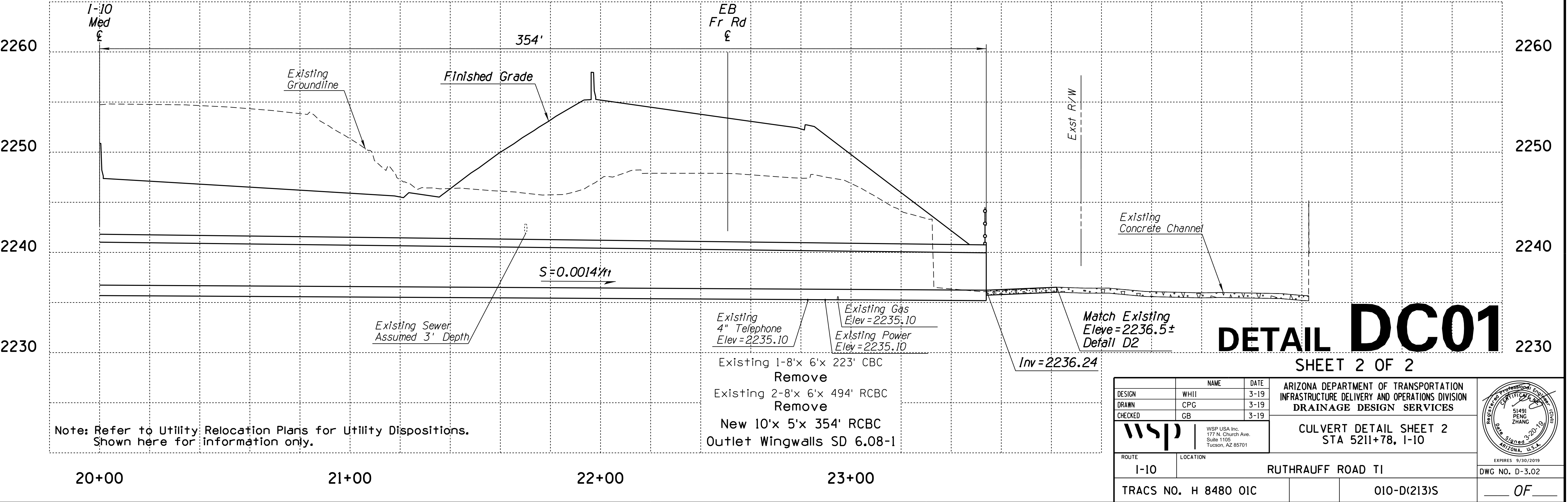
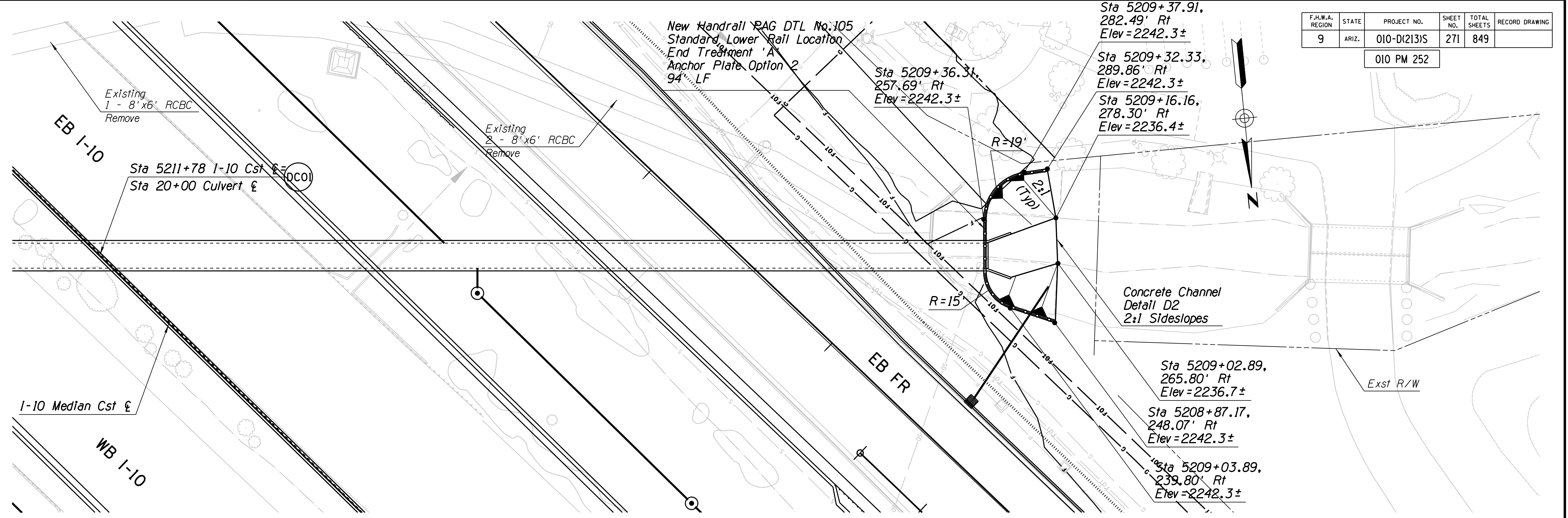
**CULVERT DETAIL SHEET 1**  
STA 5211+78, I-10



ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI
TRACS NO.	H 8480 OIC		010-D(213)S

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	271	849	

010 PM 252



# DETAIL DC01

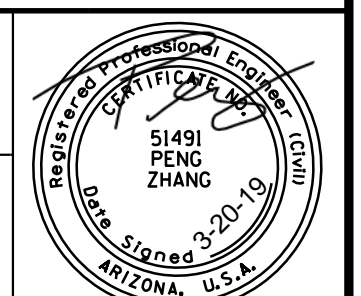
SHEET 2 OF 2

Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

- Existing 1-8'x 6'x 223' CBC Remove
- Existing 2-8'x 6'x 494' RCBC Remove
- New 10'x 5'x 354' RCBC Outlet Wingwalls SD 6.08-1

DESIGN	NAME	DATE
WHI		3-19
DRAWN	CPG	3-19
CHECKED	GB	3-19

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

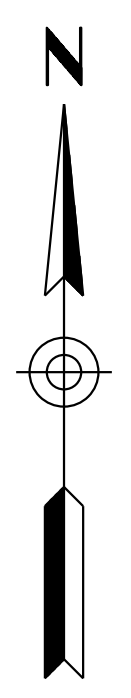
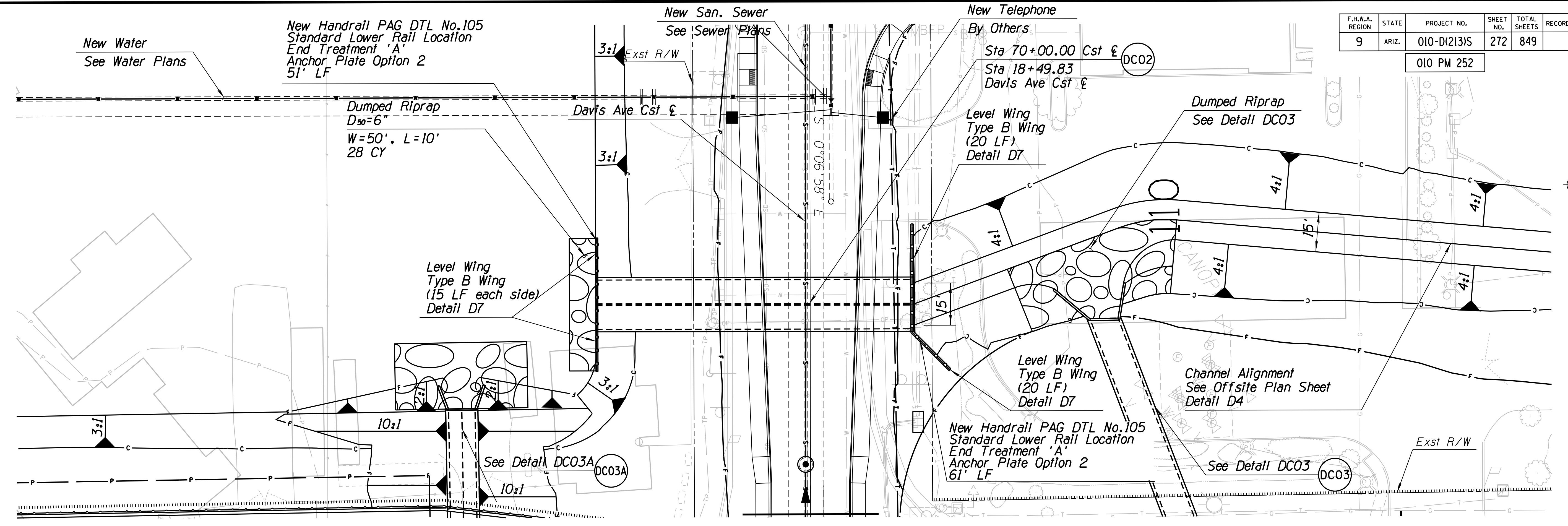


CULVERT DETAIL SHEET 2  
STA 5211+78, I-10

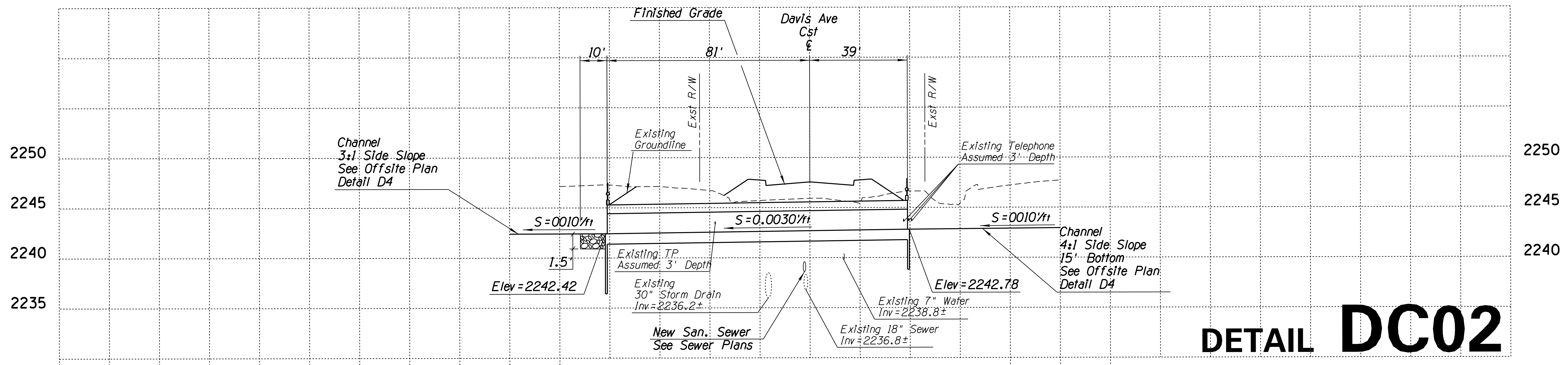
ROUTE	LOCATION	EXPRES	DWG NO.
I-10	RUTHRAUFF ROAD TI	9/30/2019	D-3.02
TRACS NO.	H 8480 OIC	010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	272	849	

010 PM 252



05/15/19



# DETAIL DC02

Davis Ave Cst & Sta 18+50.00

New 2 - 9'x 2'x 120' RCBC

Skew=0

Inlet Wingwalls - Modified Std SD 6.10 (1 of 2)

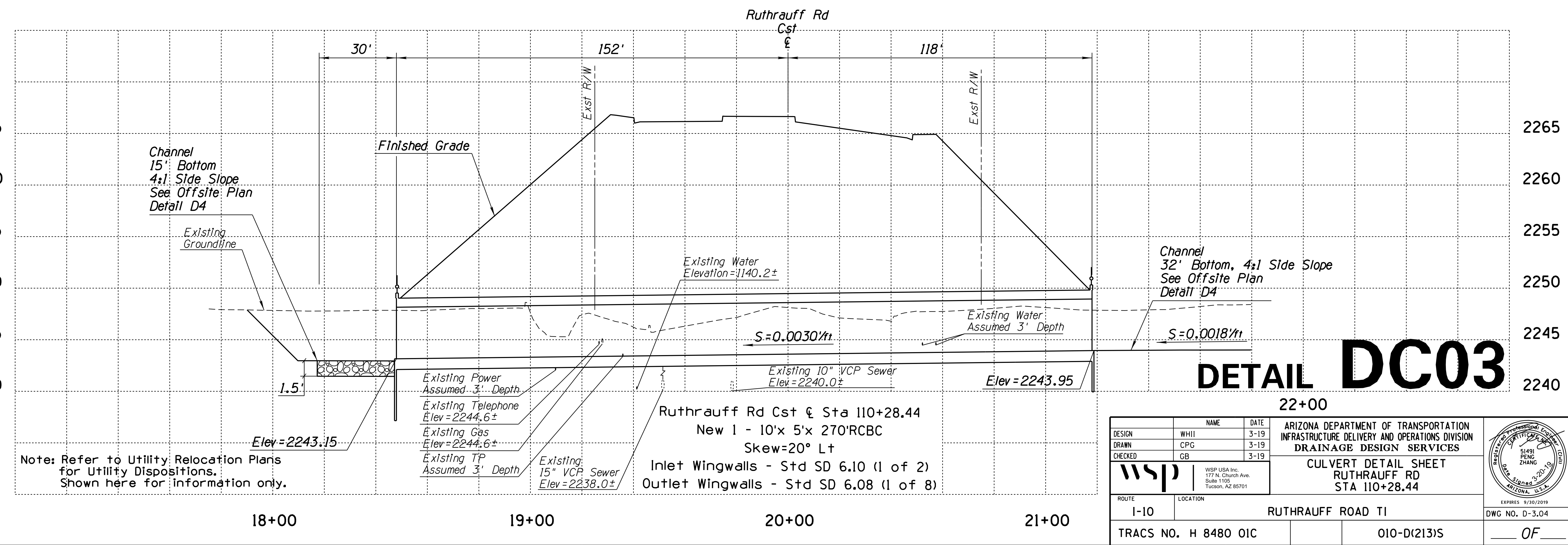
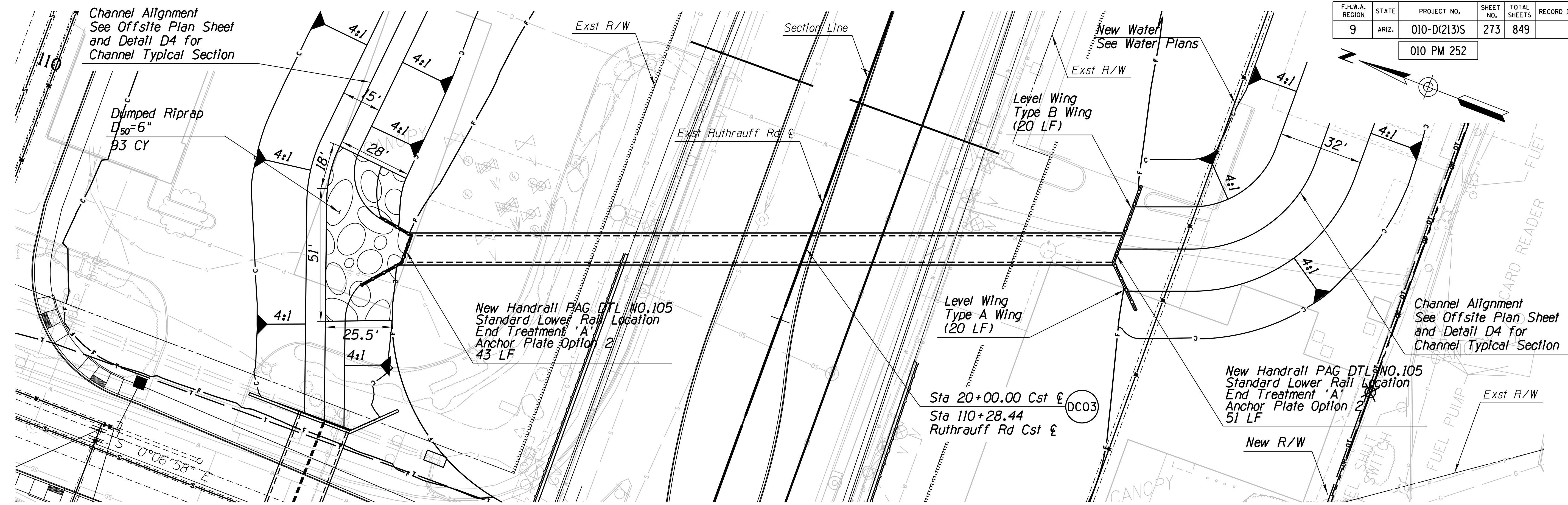
Outlet Wingwalls - Modified Std SD 6.10 (1 of 2)

Note: Refer to Utility Relocation Plans for Utility Dispositions.  
Shown here for information only.

DESIGN	WHII	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CULVERT DETAIL SHEET</b> <b>DAVIS AVE</b> <b>STA 18+49.83</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		PROJECT NO.	010-D(213)S	
			EXP. DATE	9/30/2019	
			DWG NO.	D-3.03	
			STATUS	OF	

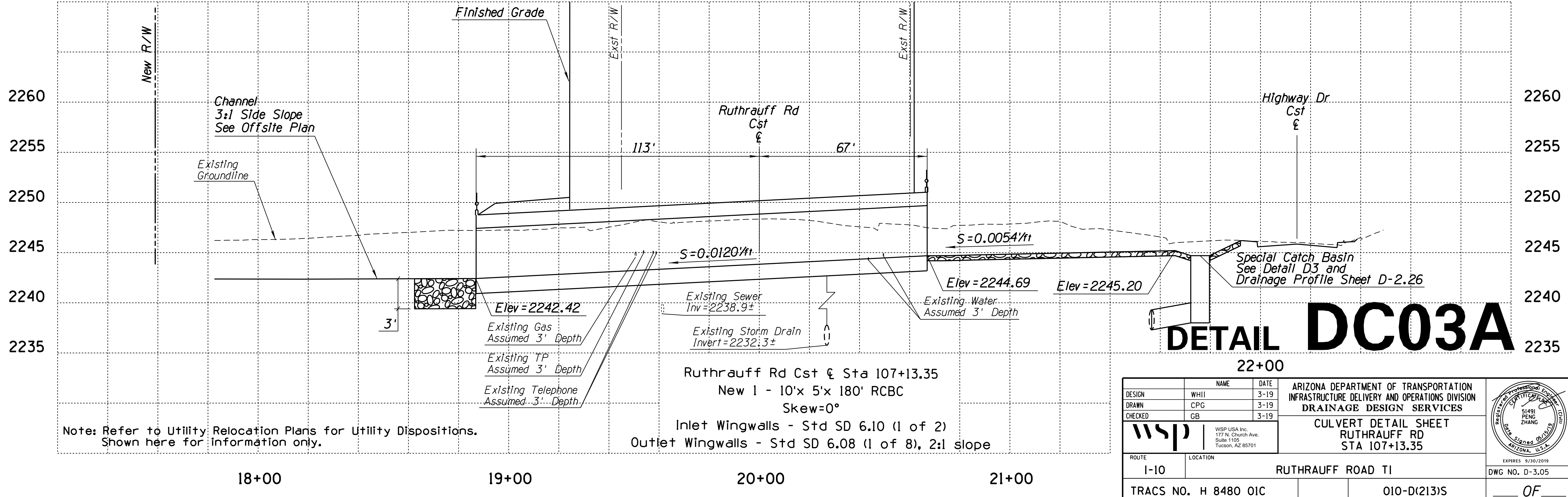
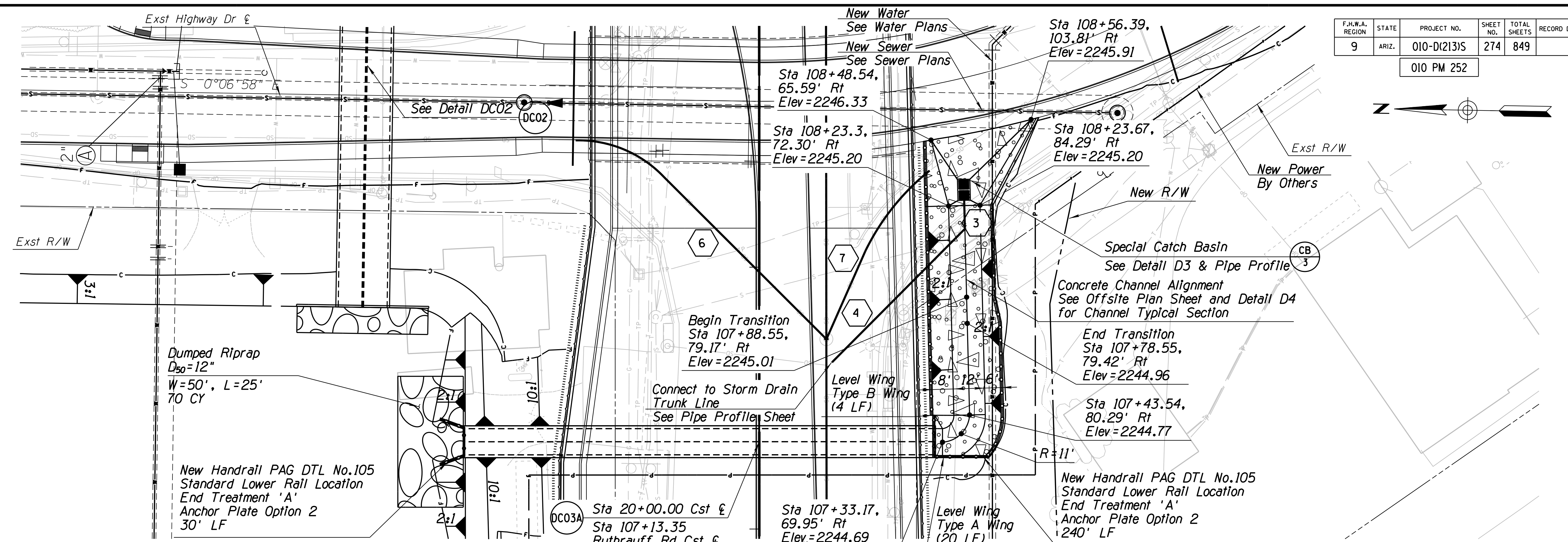
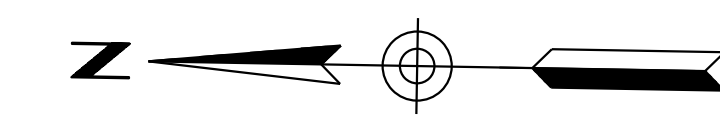
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	273	849	

010 PM 252



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	274	849	

010 PM 252



# DETAIL DC03A

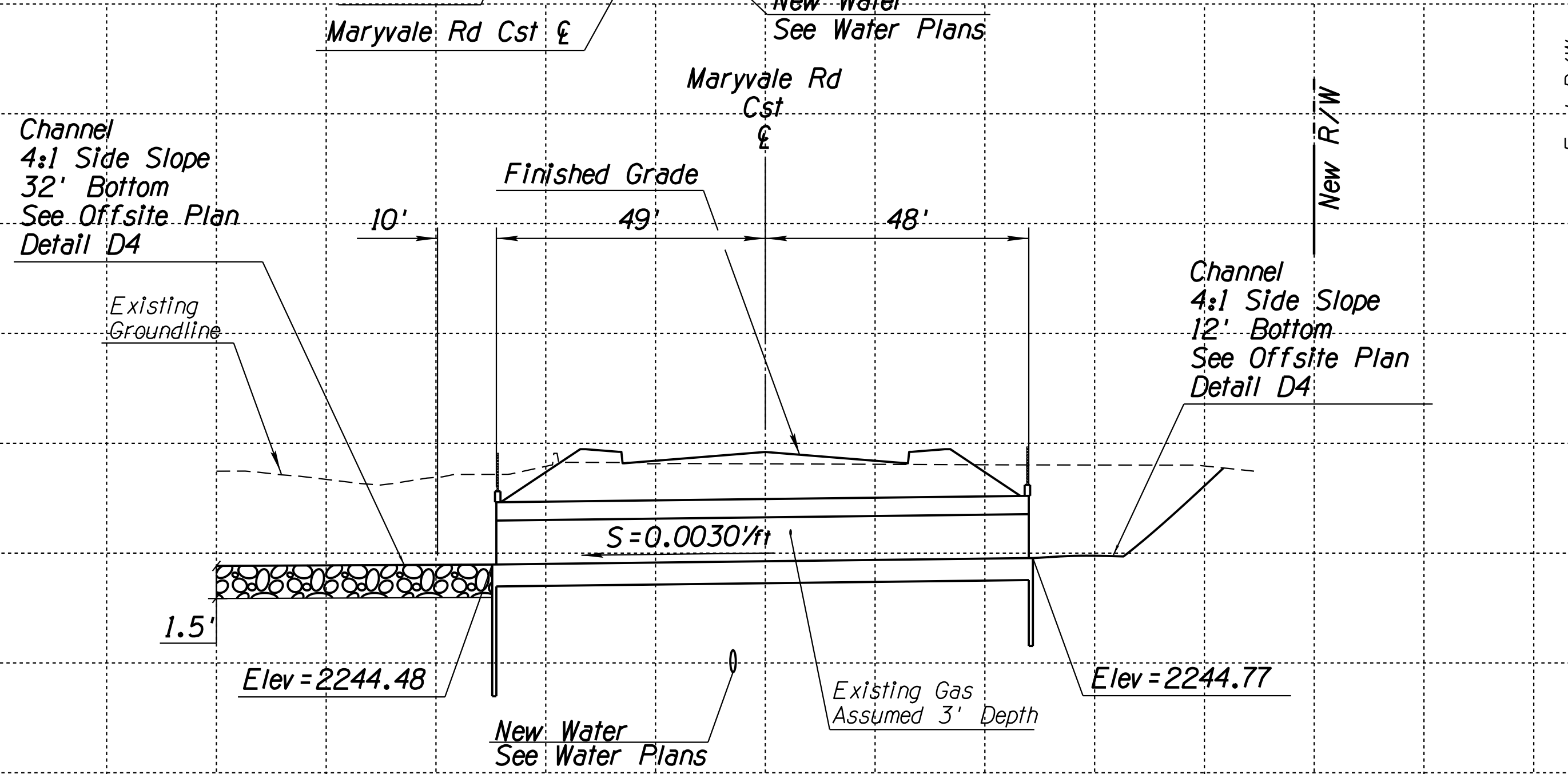
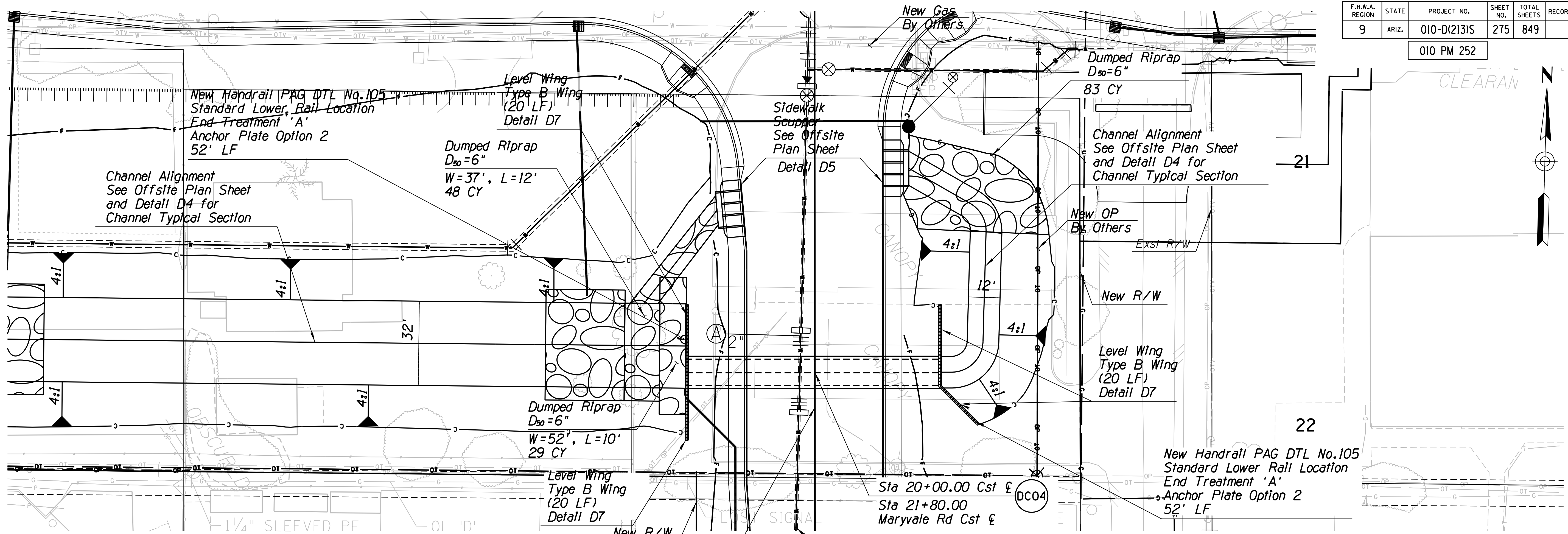
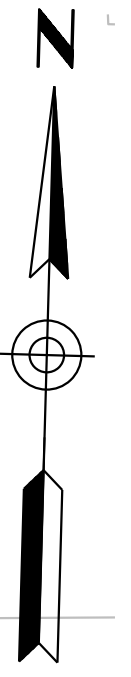
Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
<b>wsp</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		RUTHRAUFF ROAD TI STA 107+13.35		CULVERT DETAIL SHEET RUTHRAUFF RD STA 107+13.35	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	DWG NO. D-3.05	
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	275	849	

010 PM 252

CLEARAN



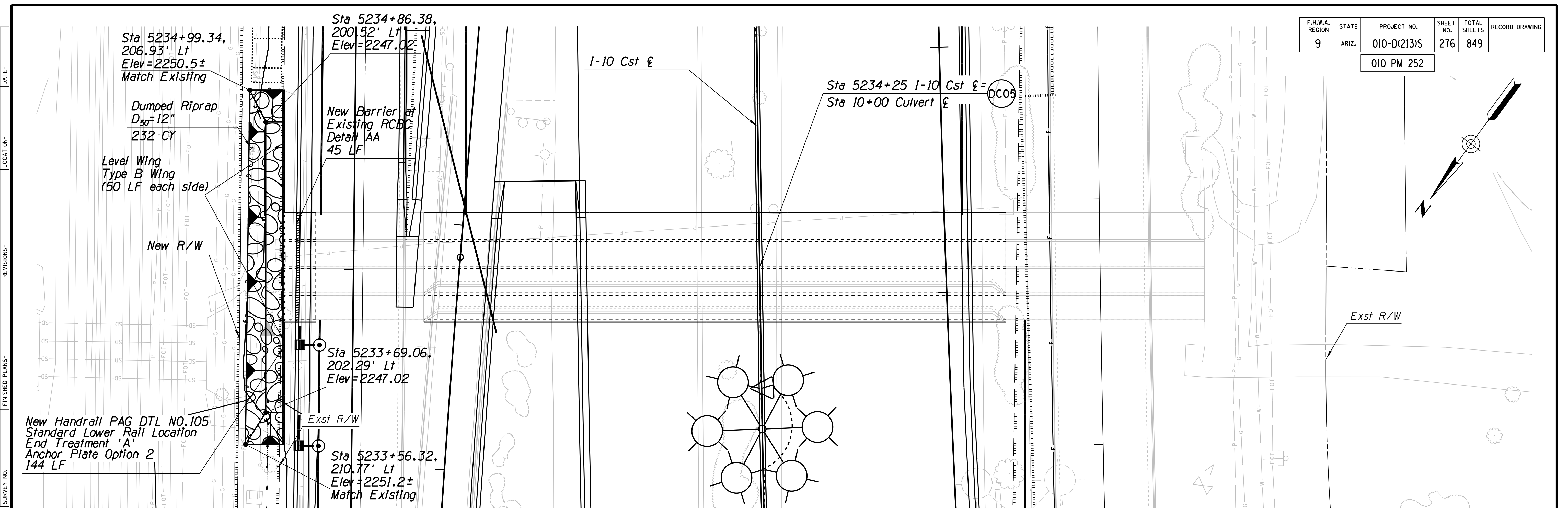
# DETAIL DC04

Maryvale Rd Cst & Sta 21+80.00  
 New 1-10'x2'x97' RCBC  
 Skew 0'  
 Inlet Wingwalls - Modified Std SD-6.10 (1 of 2)  
 Outlet Wingwalls - Modified Std SD-6.10 (1 of 2)

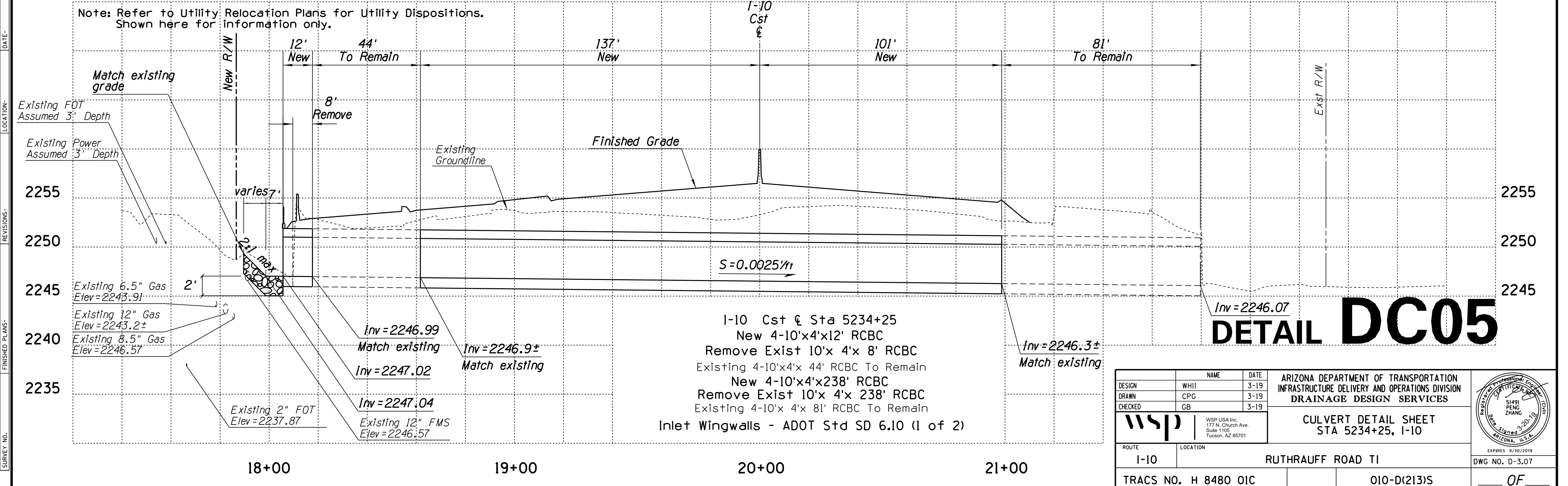
DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
ROUTE		LOCATION		RUTHRAUFF ROAD T1 DWG NO. D-3.06	
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	276	849	

010 PM 252



Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.



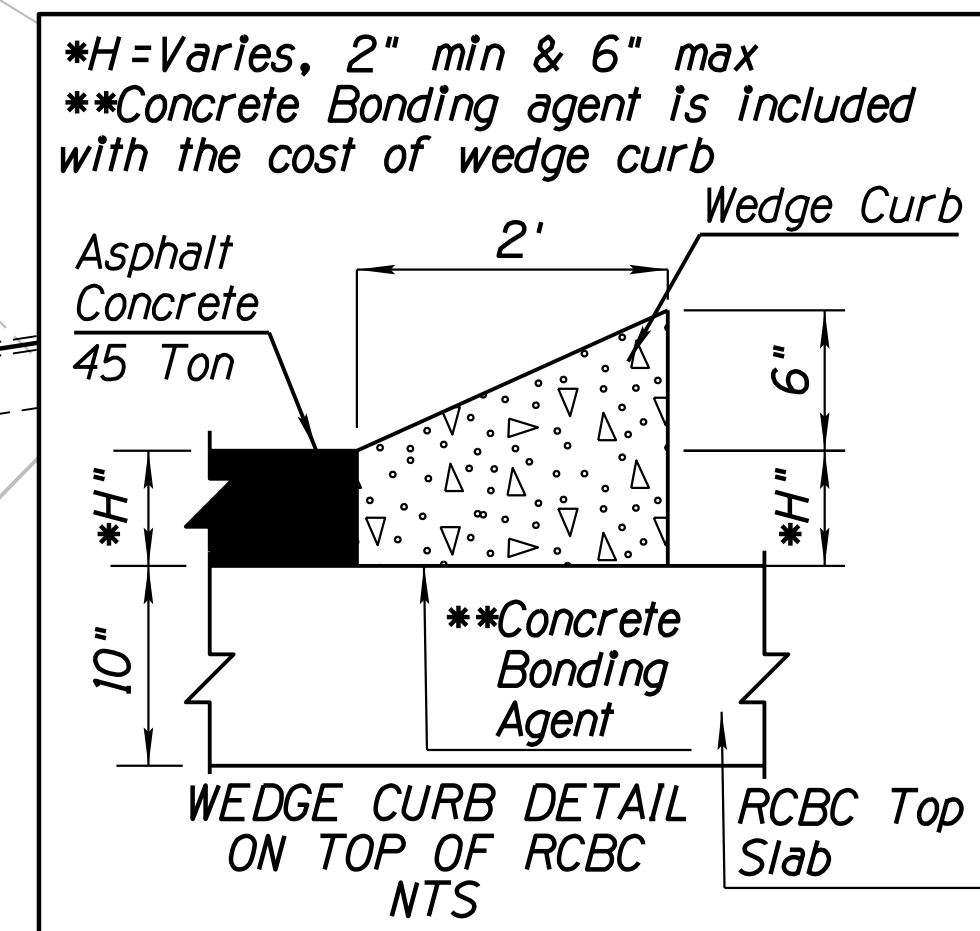
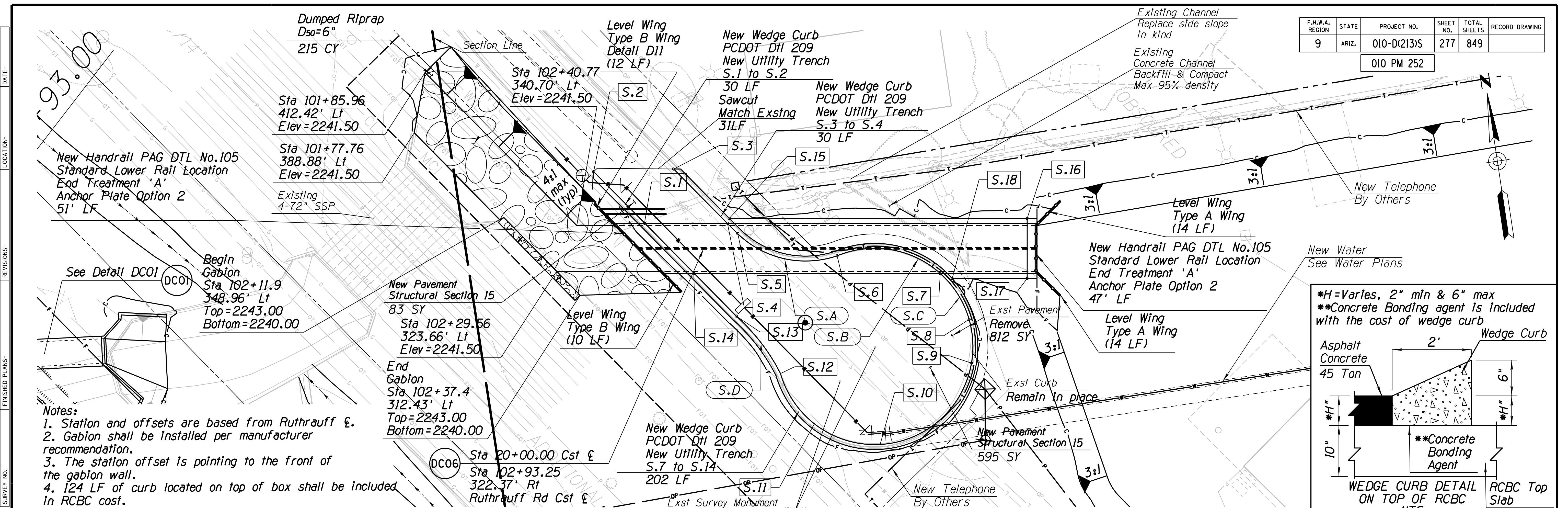
# DETAIL DC05

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CULVERT DETAIL SHEET STA 5234+25, I-10	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 9/30/2019 DWG NO. D-3.07	
TRACS NO. H 8480 OIC			010-D(213)S		



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	277	849	

010 PM 252

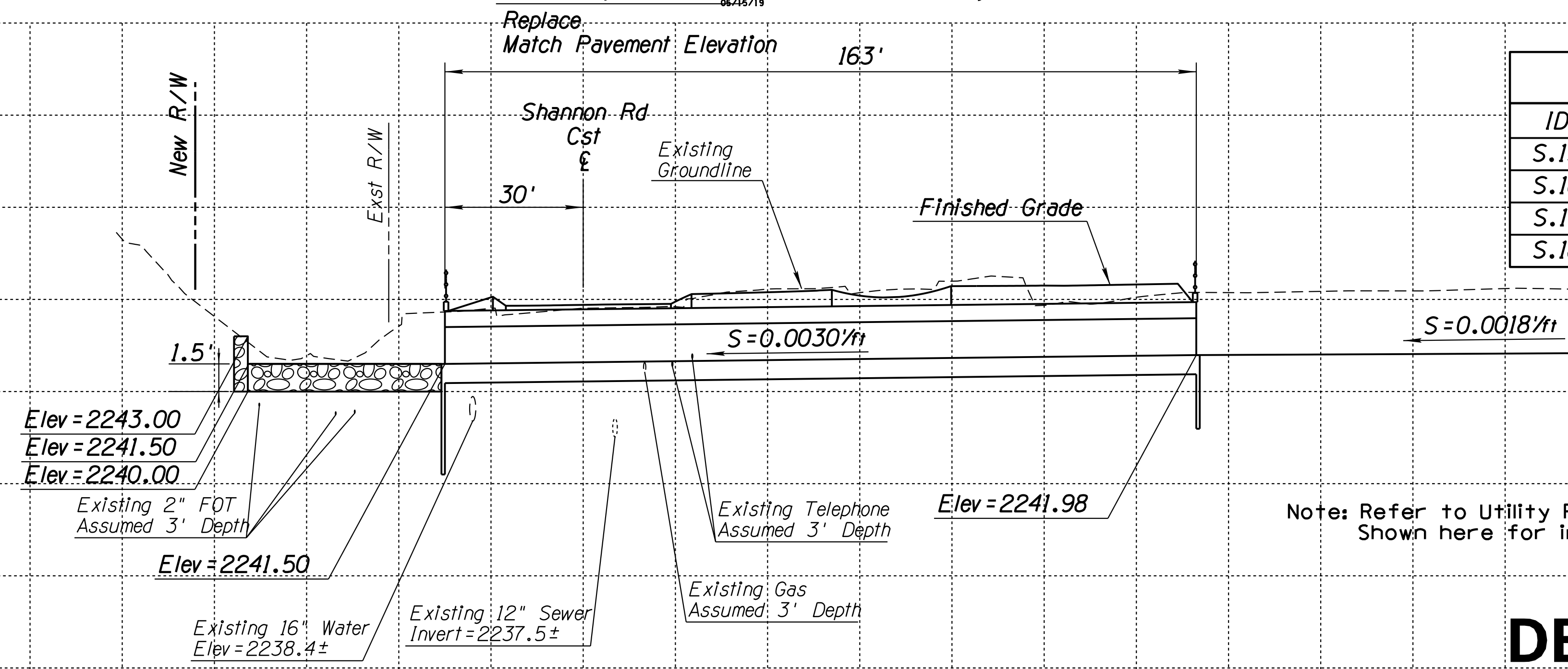


- Notes:**
1. Station and offsets are based from Ruthrauff  $\epsilon$ .
  2. Gabion shall be installed per manufacturer recommendation.
  3. The station offset is pointing to the front of the gabion wall.
  4. 124 LF of curb located on top of box shall be included in RCBC cost.

Curve Data		
Curve	Radius	Length
S.A	40'	43.71'
S.B	40'	45.10'
S.C	40'	147.97'
S.D	80'	29.72'

Shannon Rd Pavement Layout			
ID	Sta	Offset	Elevation
S.1	102+68.12	337.01', Lt	2244.60
S.2	102+51.19	361.17', Lt	2243.96±
S.3	102+83.54	356.81', Lt	2244.53±
S.4	103+01.48	331.38', Lt	2244.69
S.5	103+04.94	326.50', Lt	2244.74
S.6	103+44.99	311.02', Lt	2244.98
S.7	103+83.61	296.72', Lt	2245.25
S.8	103+84.44	250.39', Lt	2245.38
S.9	103+62.64	262.62', Lt	2245.52
S.10	103+40.79	274.88', Lt	2245.22
S.11	103+19.03	287.09', Lt	2245.05
S.12	102+97.23	299.33', Lt	2245.00
S.13	102+92.56	301.95', Lt	2244.85
S.14	102+84.53	313.45', Lt	2244.77

Fill on top of RCBC			
ID	Sta	Offset	Elevation
S.15	103+02.55	333.22', Lt	2245.18
S.16	104+22.30	313.00', Lt	2245.85
S.17	104+18.23	288.85', Lt	2245.85
S.18	103+88.08	293.94', Lt	2245.75



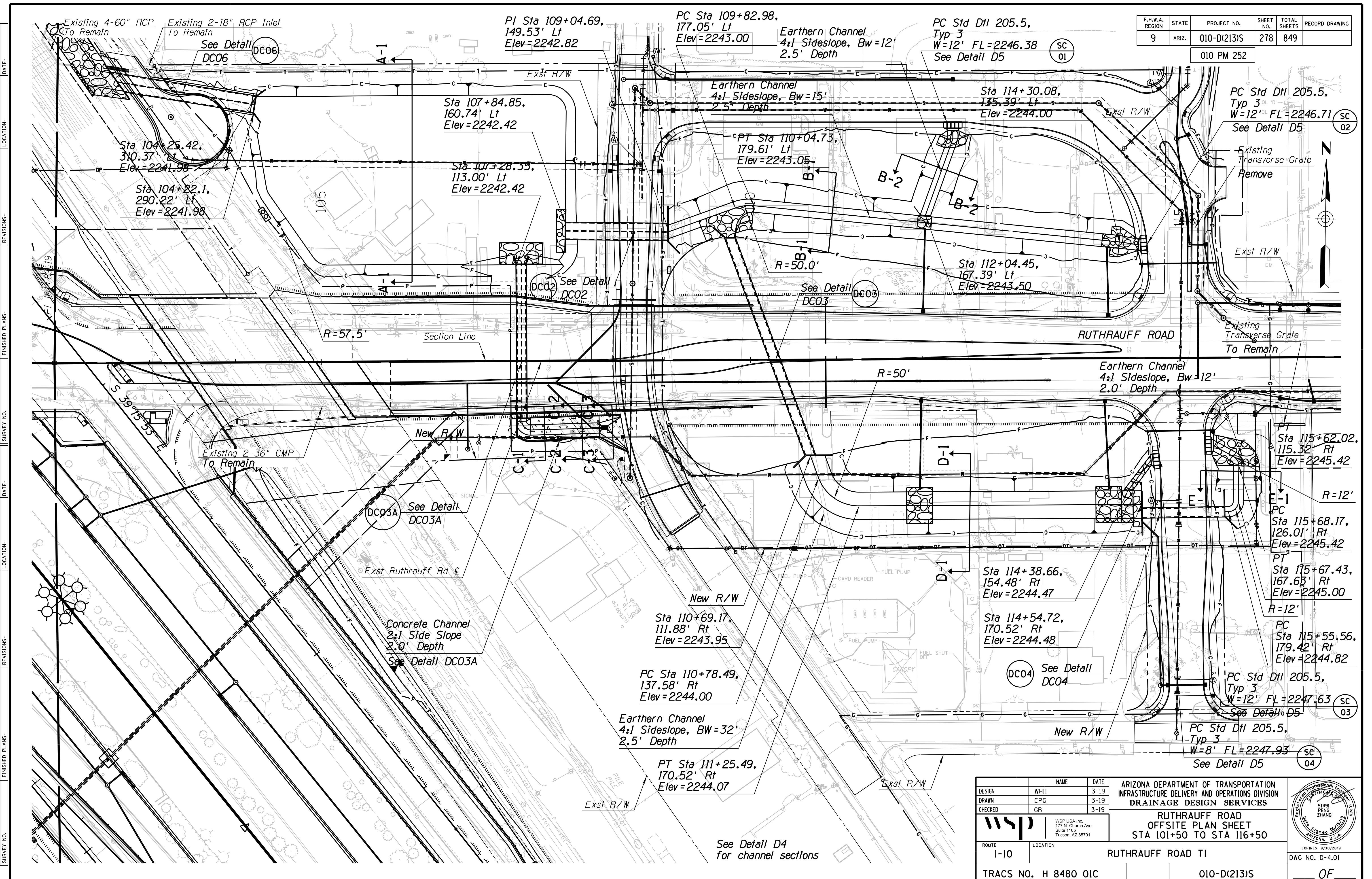
Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

# DETAIL DC06

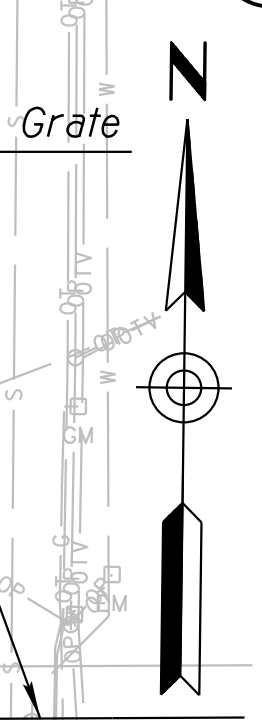
Ruthrauff Rd Cst  $\epsilon$  Sta 102+93.25, 322.37' Rt  
 New 2 - 9'x 2'x 163' RCBC (Detail D6)  
 Skew=45  
 Inlet Wingwalls - Modified Std SD 6.10 (Detail D7)  
 Outlet Wingwalls - Modified Std SD 6.10 (Detail D7)

NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES  CULVERT DETAIL SHEET SHANNON RD	
DESIGN	WHI	3-19		
DRAWN	CPG	3-19		
CHECKED	GB	3-19		
ROUTE		LOCATION	RUTHRAUFF ROAD T1	
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-3.08

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	278	849	
010 PM 252					



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

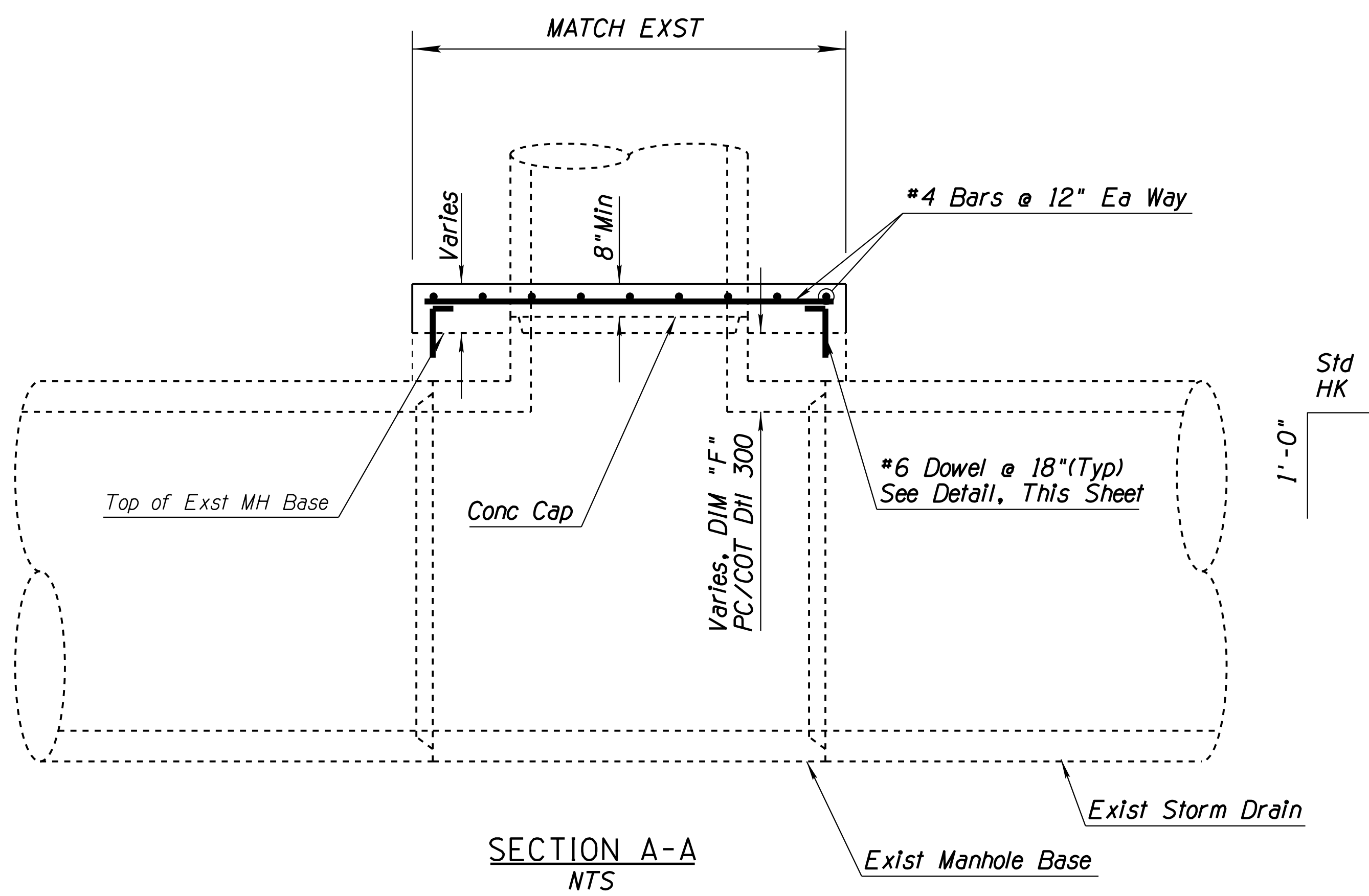
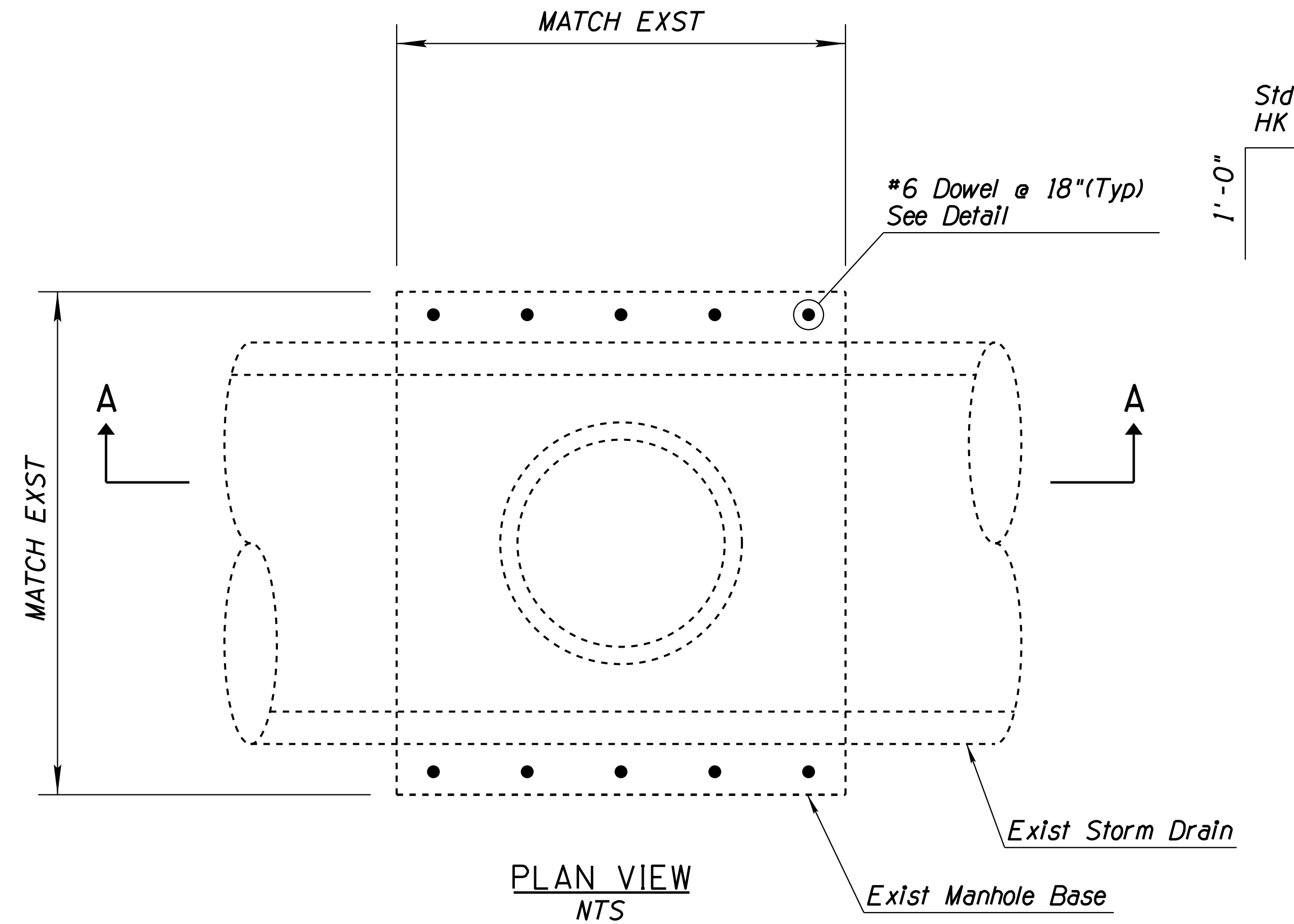


See Detail D4 for channel sections

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>OFFSITE PLAN SHEET</b> <b>STA 101+50 TO STA 116+50</b>	
DRAWN	CPG	3-19			
CHECKED	GB	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. D-4.01	

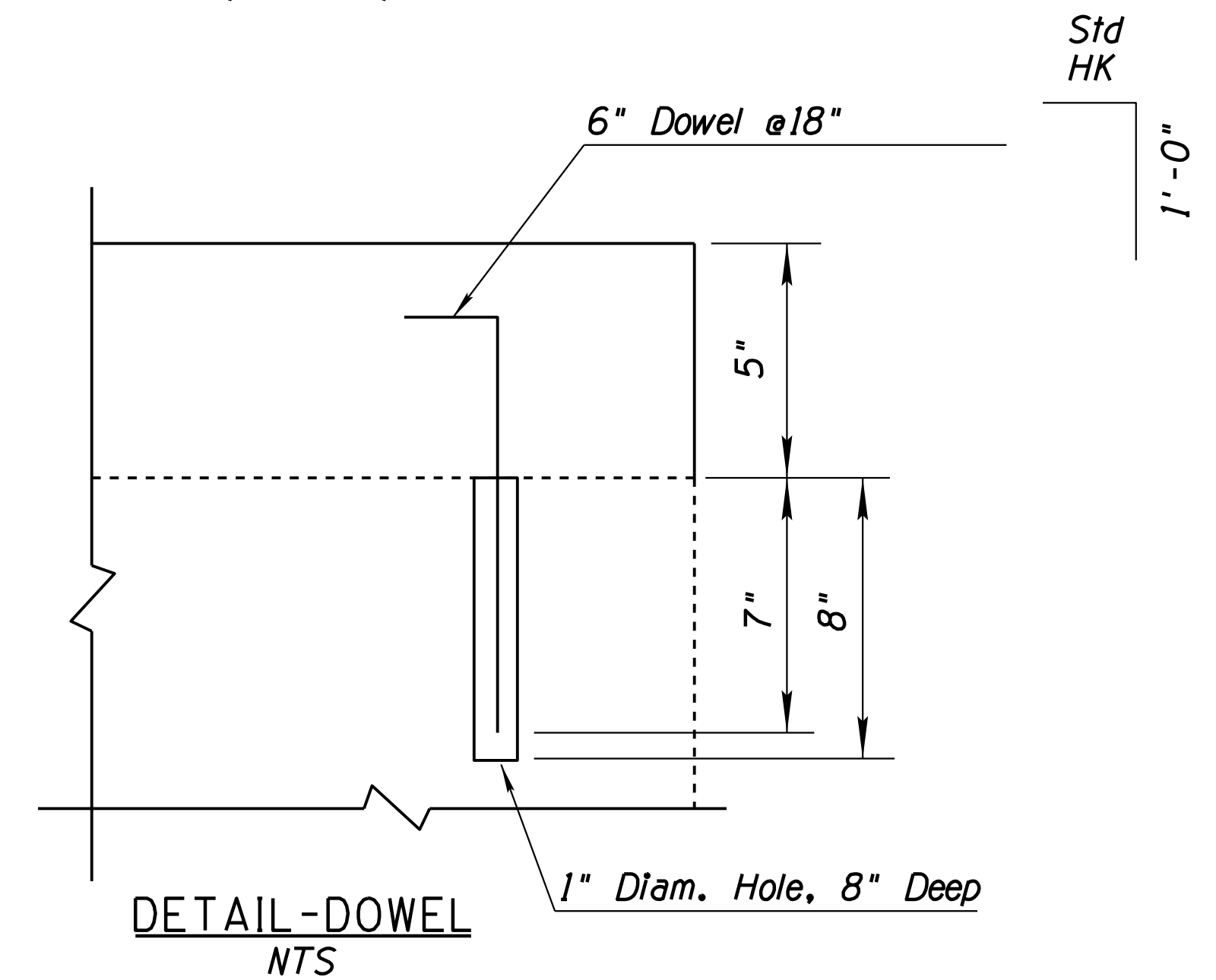
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	279	849	

010 PM 252



**NOTES:**

1. All Concrete Shall Be Class "S" ( f'c 3000psi )
2. Reinforcing Steel Shall conform to ASTM Specifications A615. All Reinforcing shall be furnished as Grade 60.
3. Remove Exst MH Riser to Top of MH Base. Contractor shall take care not to damage existing Storm Drain.
4. Concrete shall be clean and free of debris and laitance prior to placement of New Concrete.



**DOWEL NOTE:**

Drill 1" Diam. Hole, 8" Deep for #6" dowel. Epoxy Dowel in hole with an approved epoxy adhesive. Epoxy anchorage shall develop a minimum tensile pullout strength of 10 kips. Details of anchorage system shall be submitted to the engineer for approval prior to installation.

# DETAIL D1

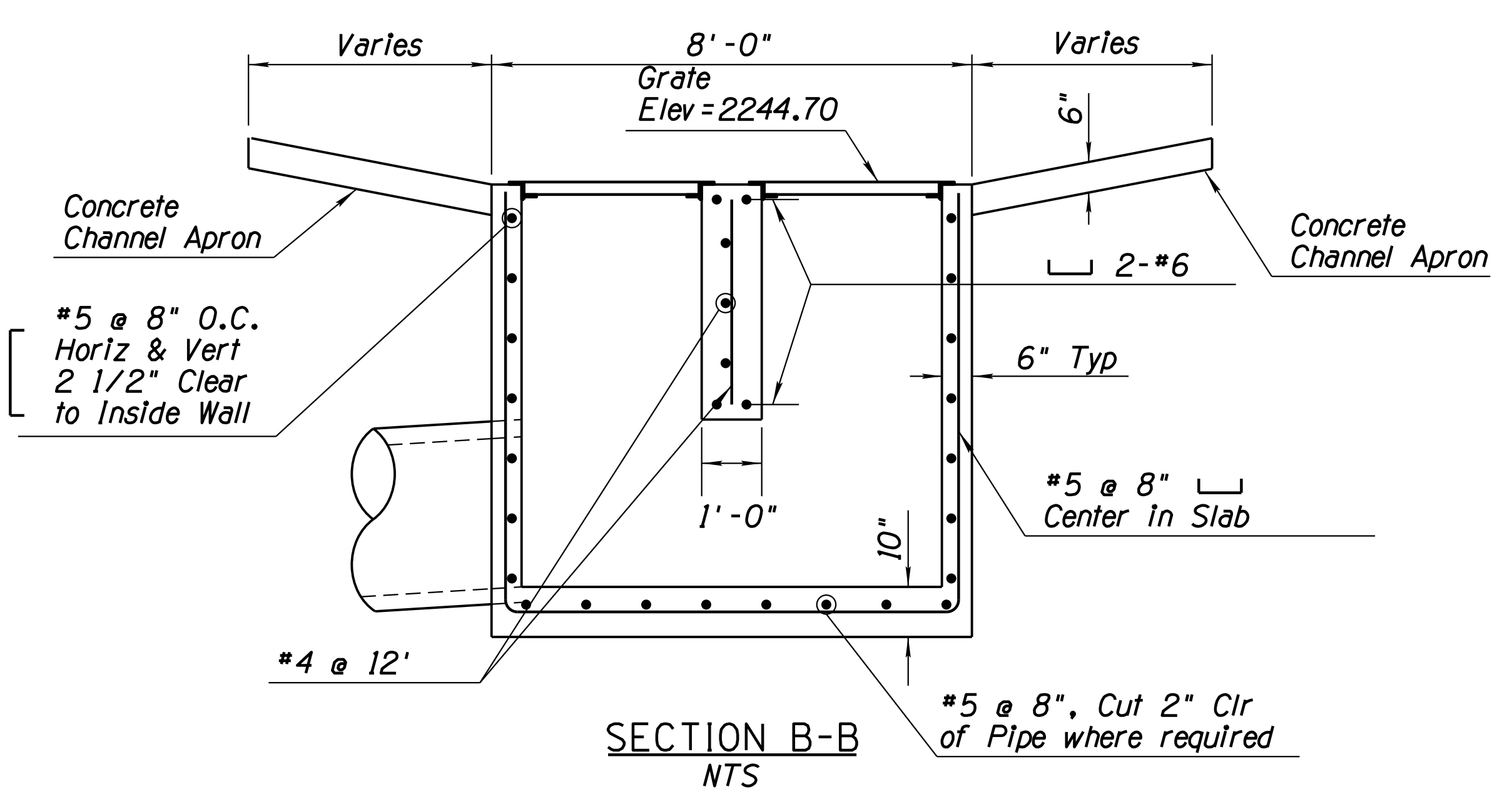
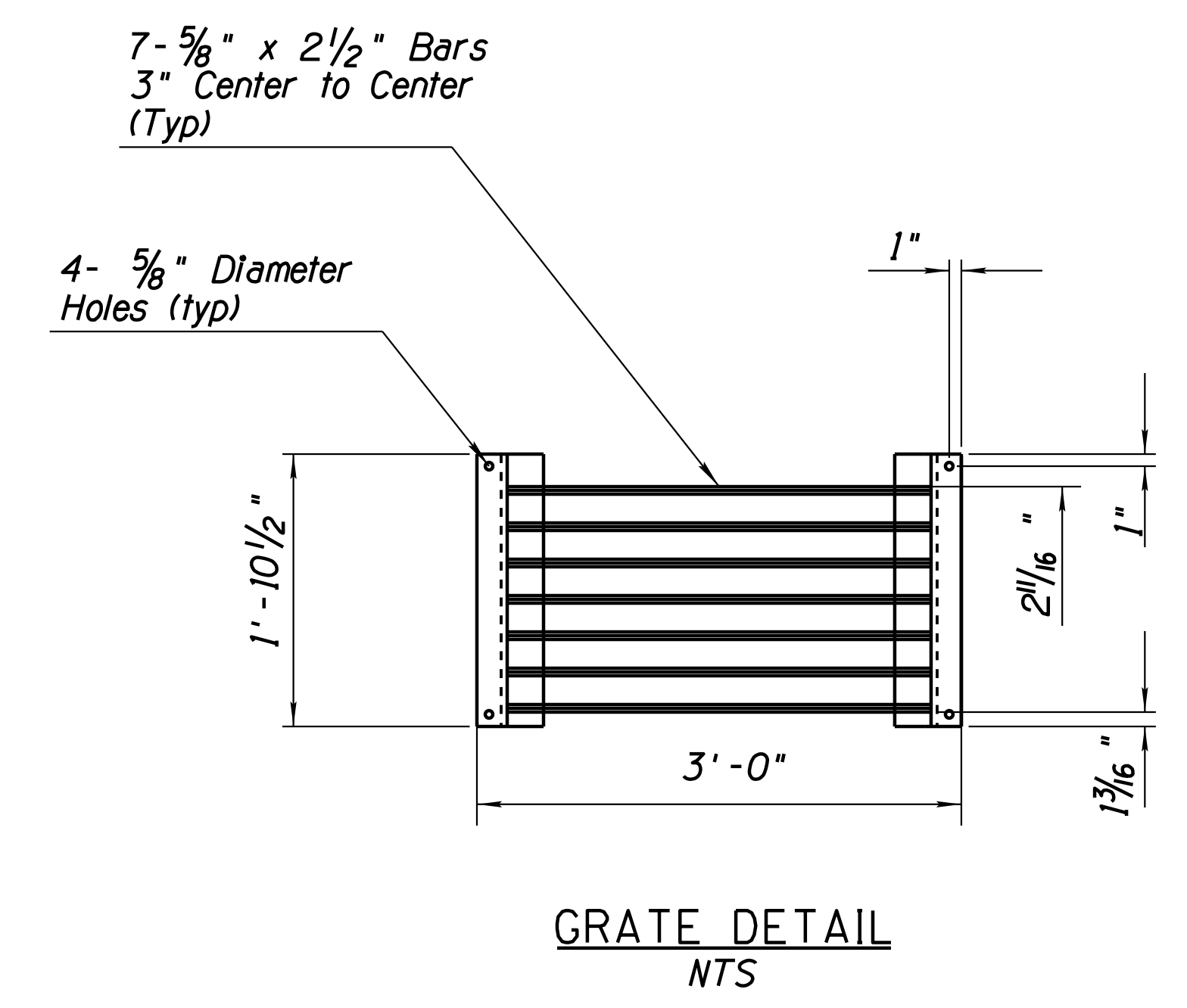
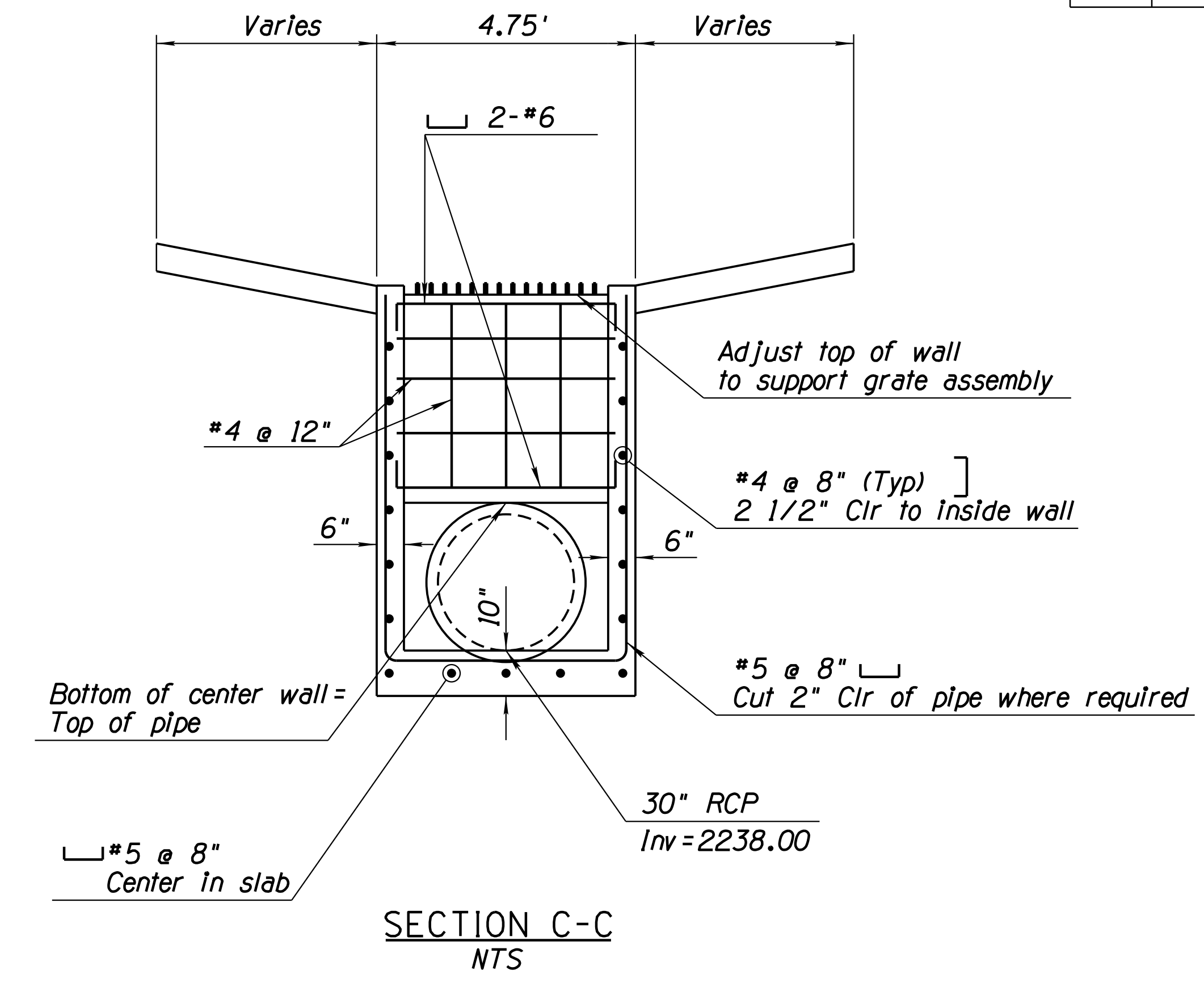
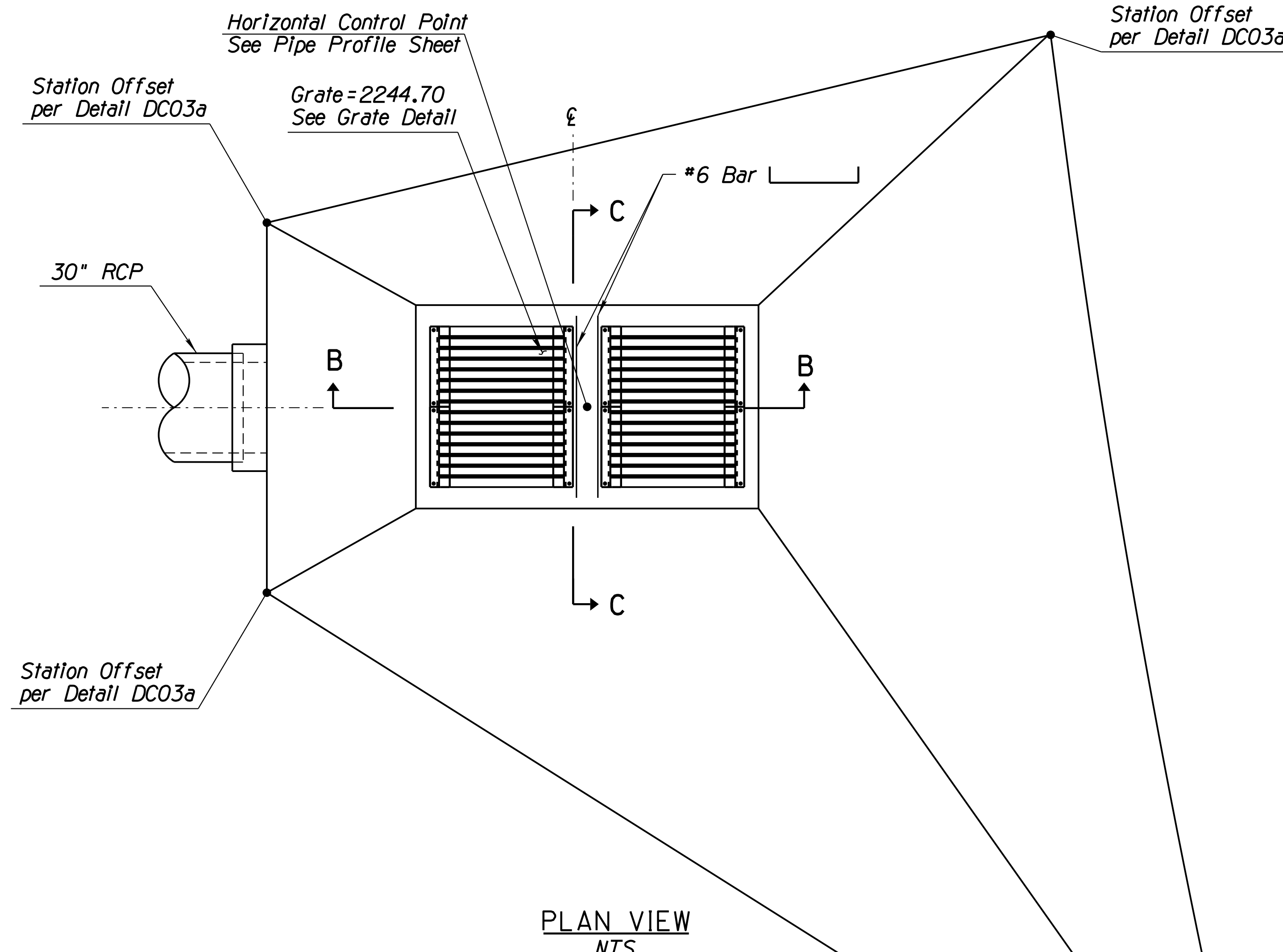
DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
ROUTE		LOCATION		STORM DRAIN MANHOLE BASE CAP	
I-10		RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC				010-D(213)S	
				DWG NO. D-5.01	

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	281	849	

010 PM 252



Station Offset per Detail DC03a

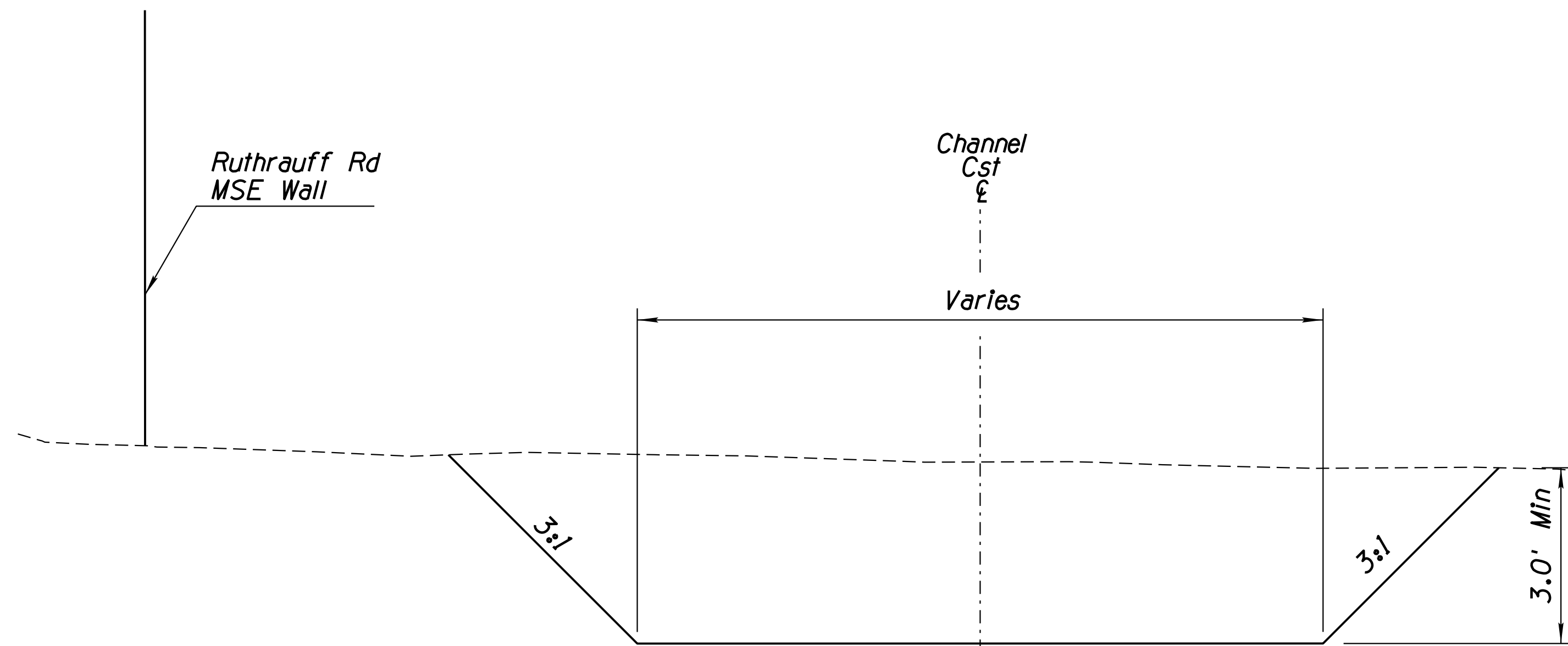
- NOTES:
- For additional grate detail, see ADOT Std C-15.80.
  - Concrete apron shall be paid as part of concrete channel.

# DETAIL D3

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
WHI		3-19	
CPG		3-19	
CHECKED	GB/JC	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		DRAINAGE DETAIL SPECIAL CATCH BASIN	
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
I-10			
TRACS NO. H 8480 OIC		010-D(213)S	OF

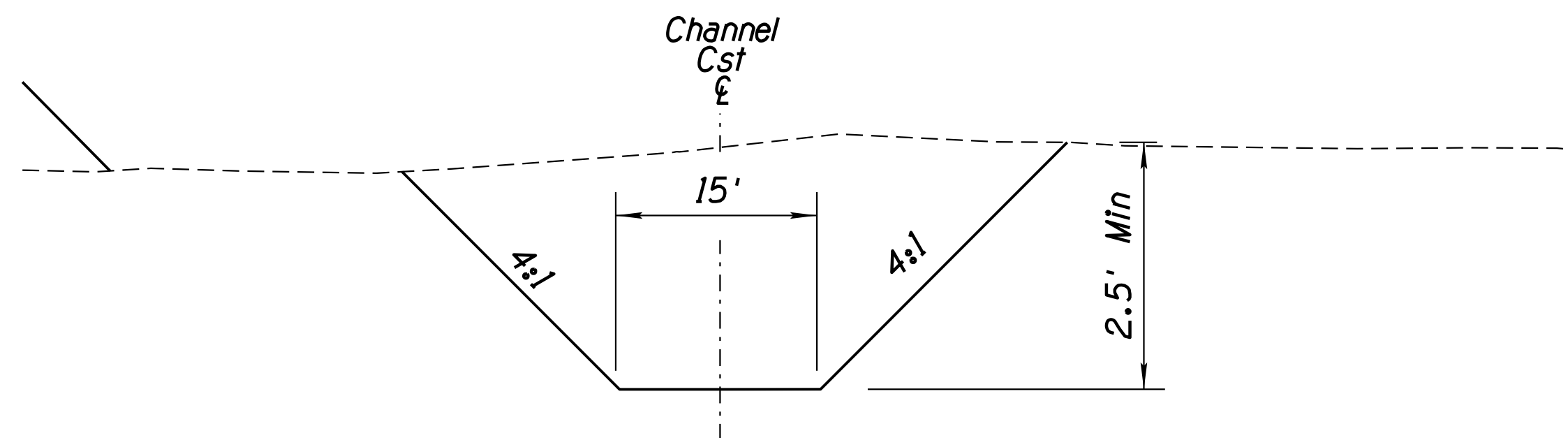
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	282	849	

010 PM 252



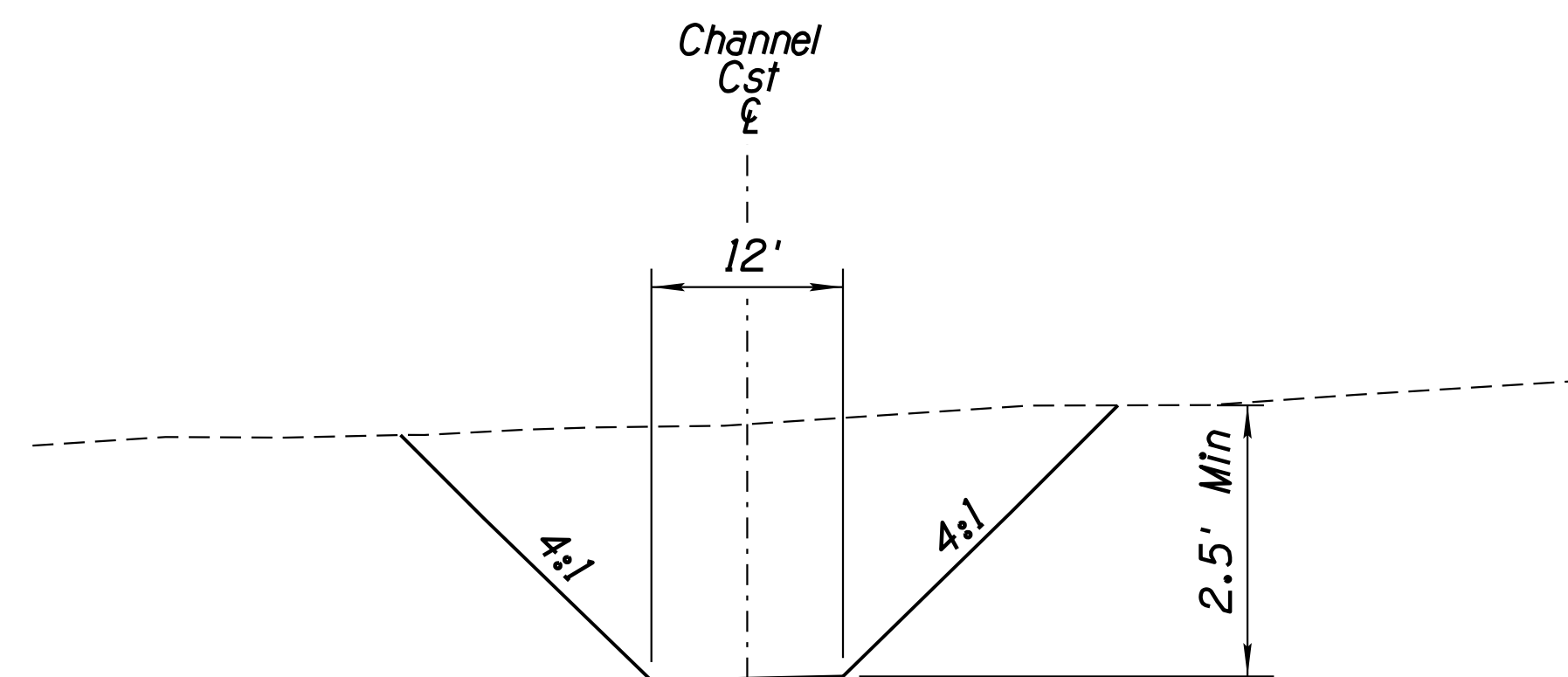
**SECTION A-1**

NTS  
Sta 104+23.76, 300.30' Lt  
to  
Sta 107+84.85, 160.74' Lt



**SECTION B-1**

NTS  
Sta 109+04.69, 149.53' Lt  
to  
Sta 114+30.08, 135.39' Lt



**SECTION B-2**

NTS  
Sta 112+04.45, 167.39' Lt  
to  
Sta 112+36.88, 256.27' Lt

Note: All stationing is based on Ruthrauff Road C/L

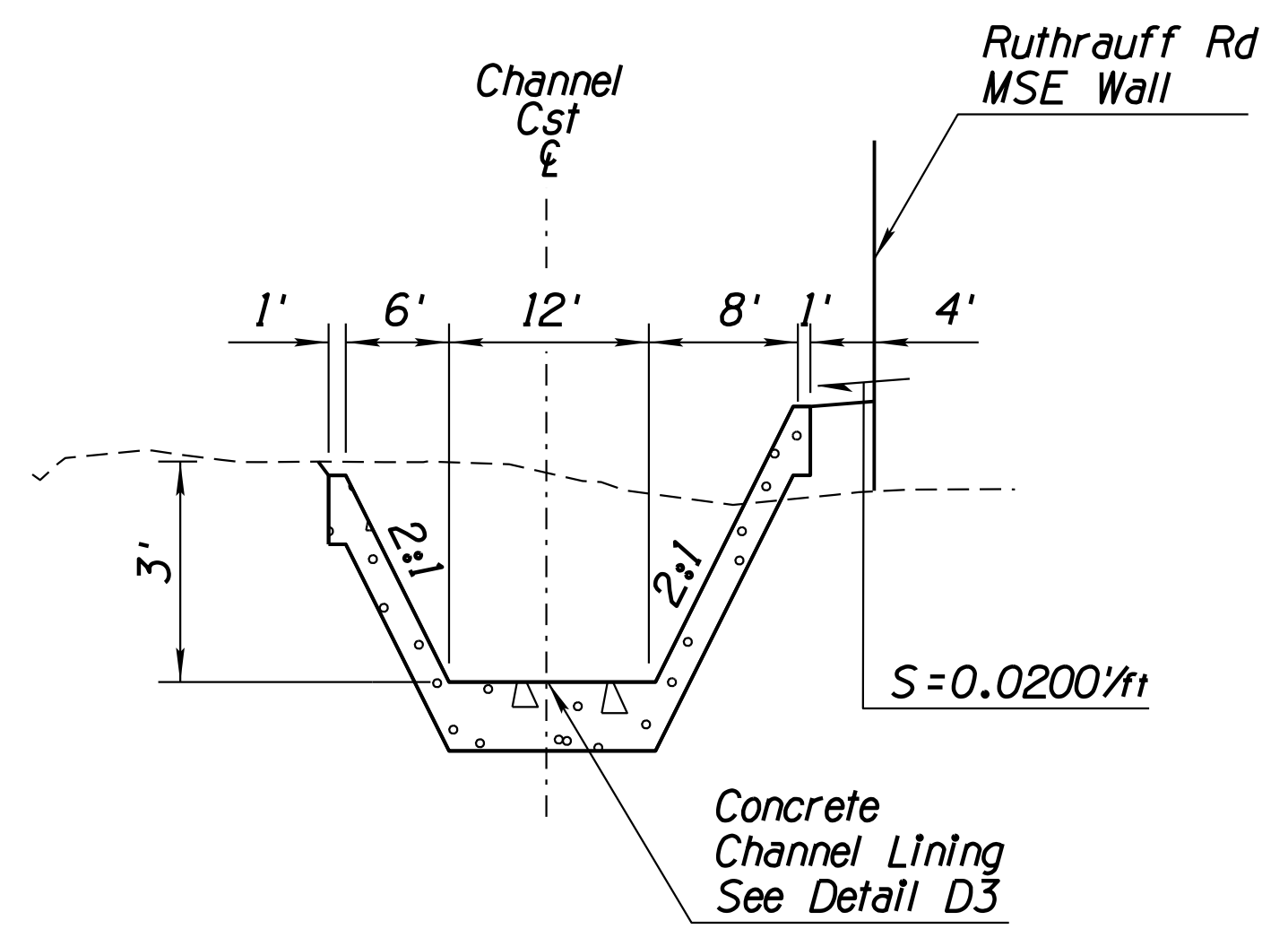
**DETAIL D4**  
SHEET 1 OF 2

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>DRAINAGE DETAIL</b> <b>OFFSITE CHANNEL CROSS SECTIONS</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

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

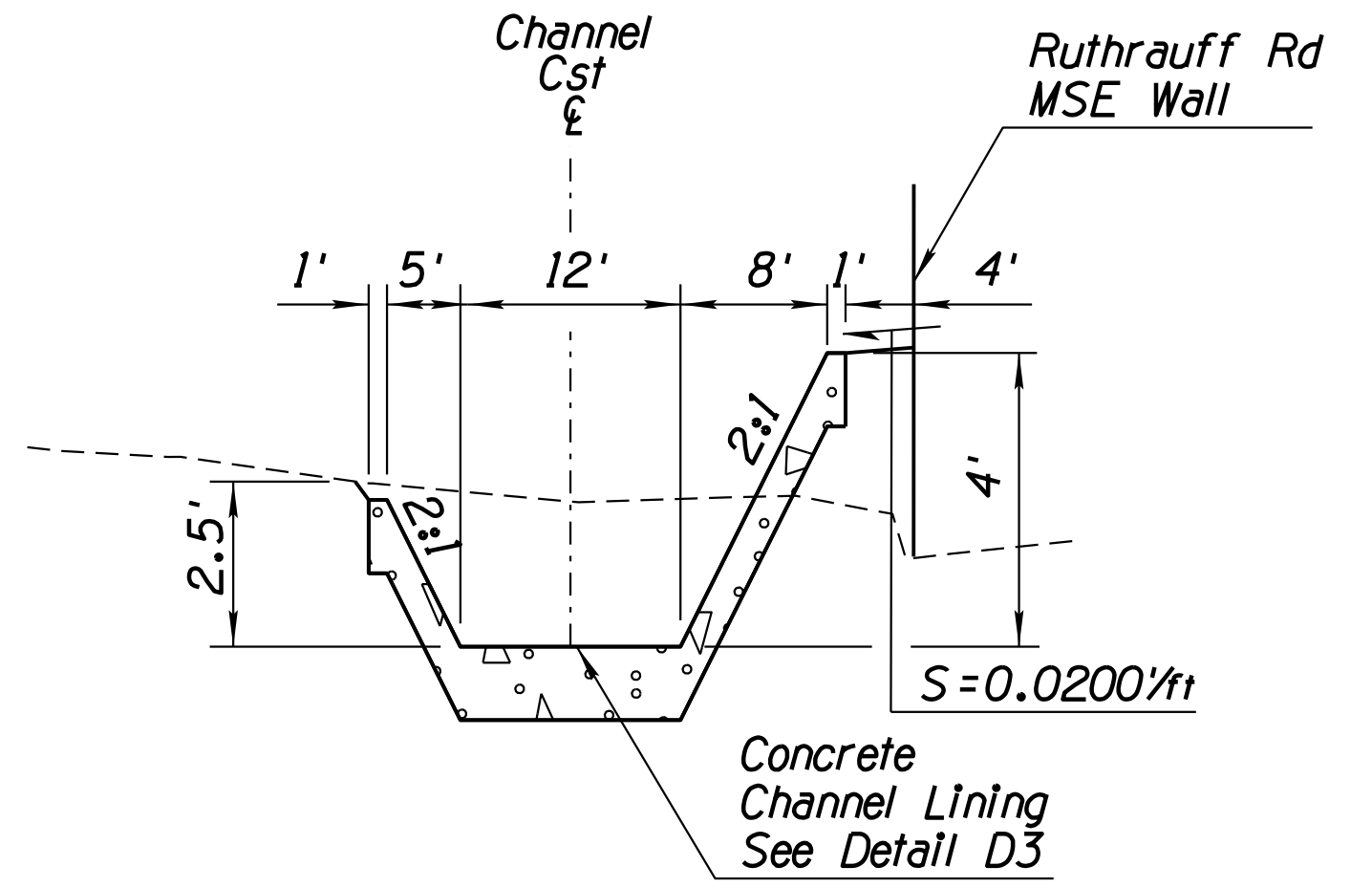
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	283	849	

010 PM 252



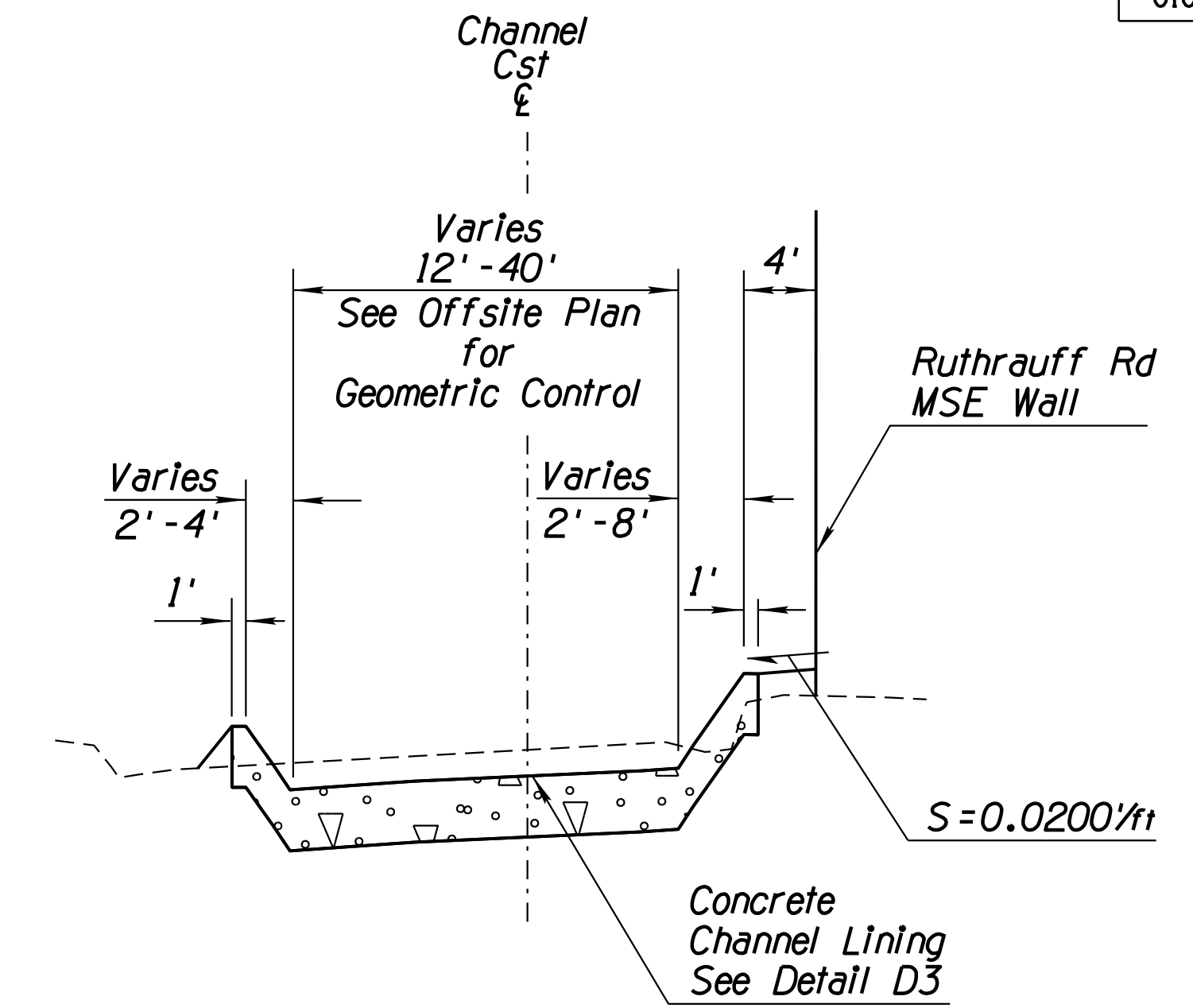
**SECTION C-1**

NTS  
Sta 107+33.17, 69.95' Rt  
to  
Sta 107+78.55, 79.42' Rt



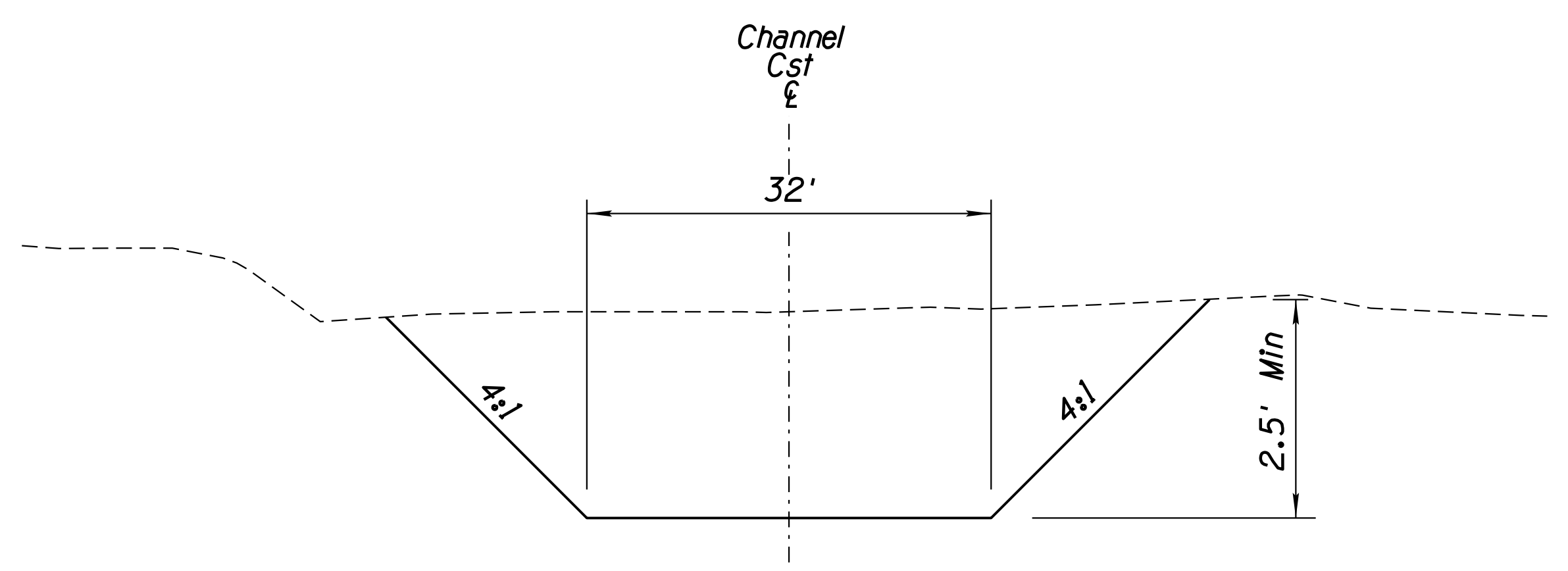
**SECTION C-2**

NTS  
Sta 107+88.55, 79.17' Rt  
to  
Sta 108+23.3, 78.30' Rt



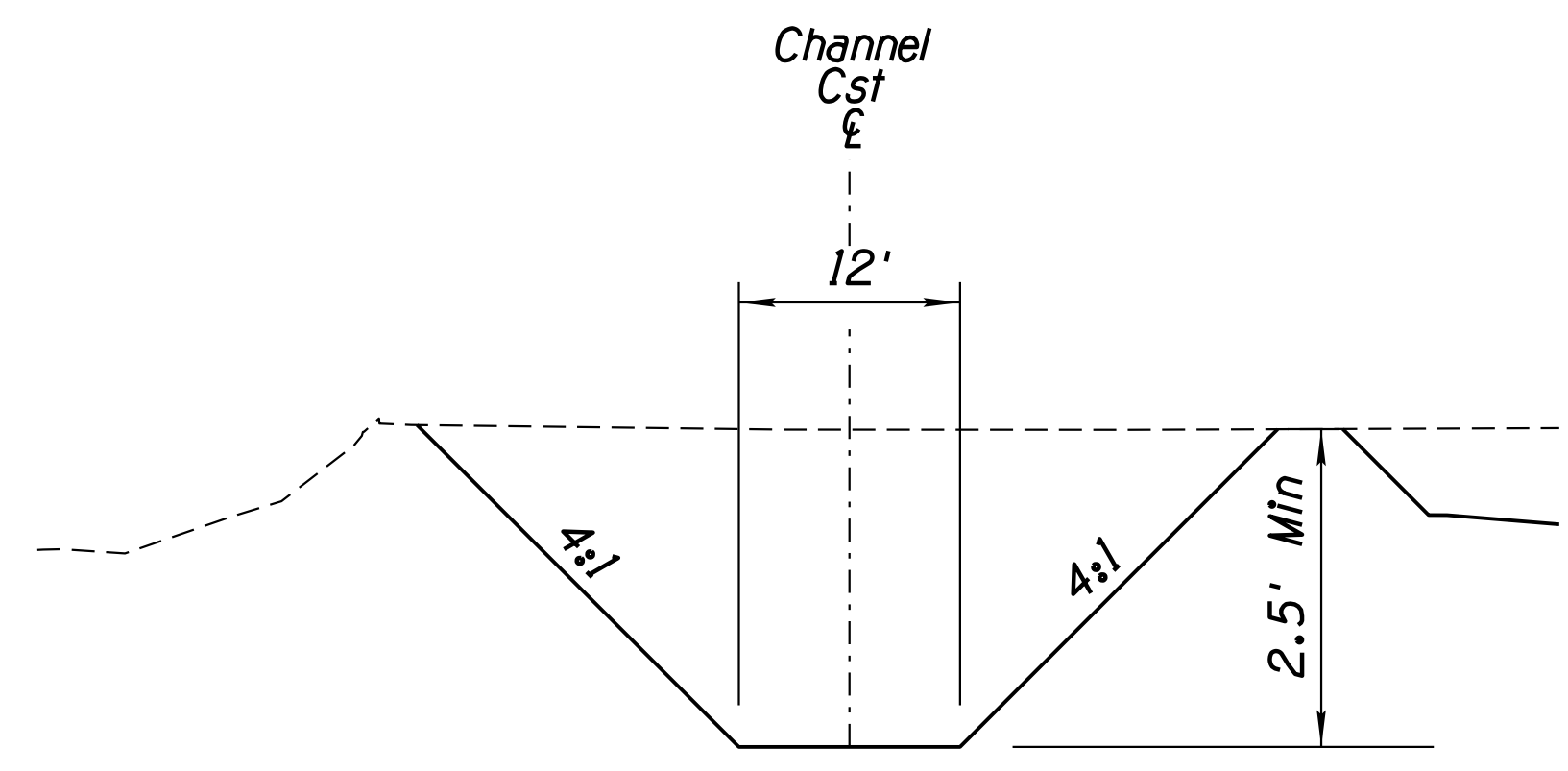
**SECTION C-3**

NTS  
Sta 108+23.3, 78.30' Rt  
to  
Sta 108+56.39, 103.81' Rt



**SECTION D-1**

NTS  
Sta 110+69.17, 111.88' Rt  
to  
Sta 114+54.72, 170.52' Rt



**SECTION E-1**

NTS  
Sta 115+55.56, 179.42' Rt  
to  
Sta 115+68.17, 126.01' Rt

**DETAIL D4**  
SHEET 2 OF 2

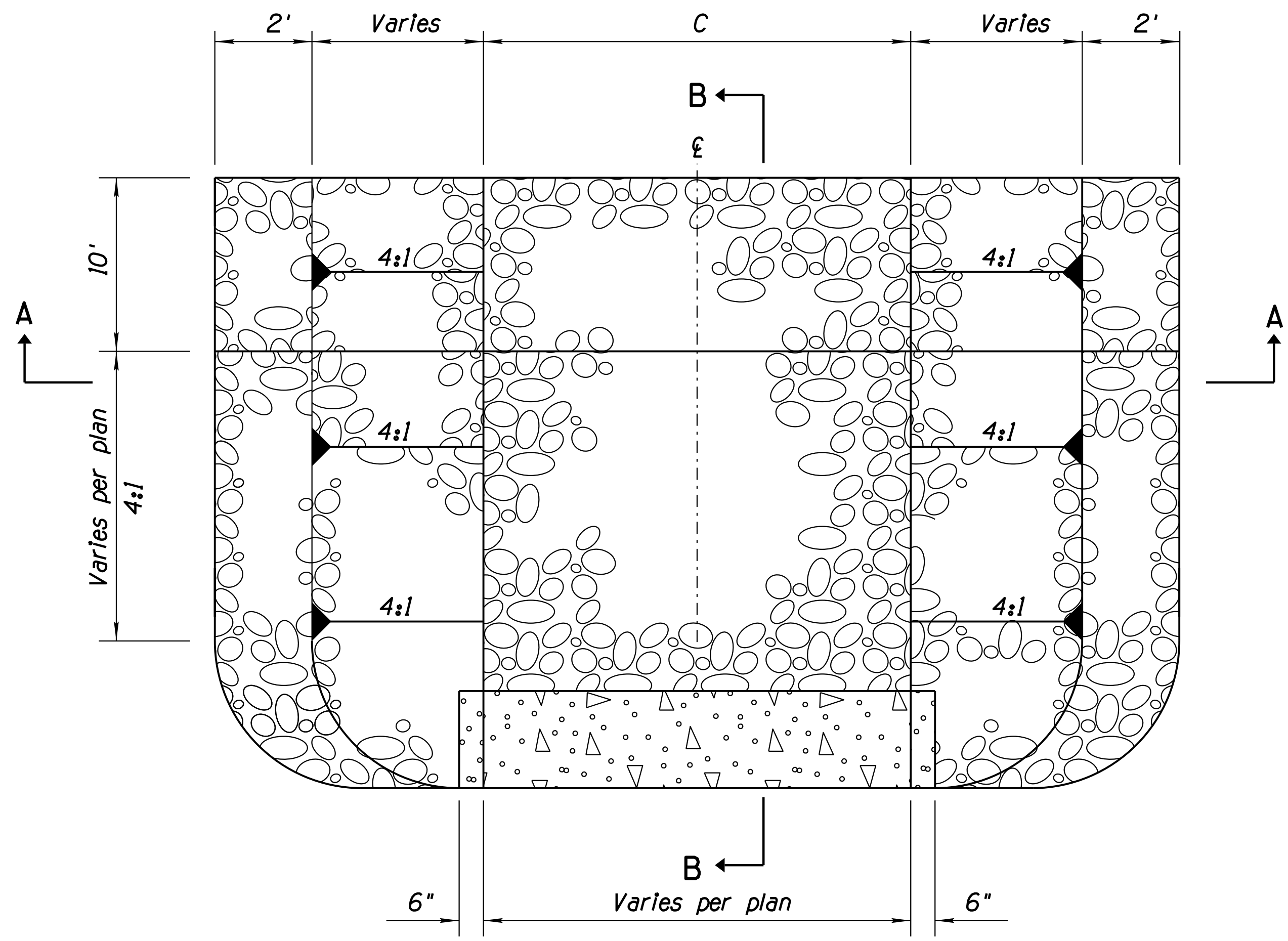
DESIGN	WH/1	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>DRAINAGE DETAIL</b> <b>OFFSITE CHANNEL CROSS SECTIONS</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S		
					EXP. NO. D-5.04b
					OF

Note: All stationing is based on Ruthrauff Rd £

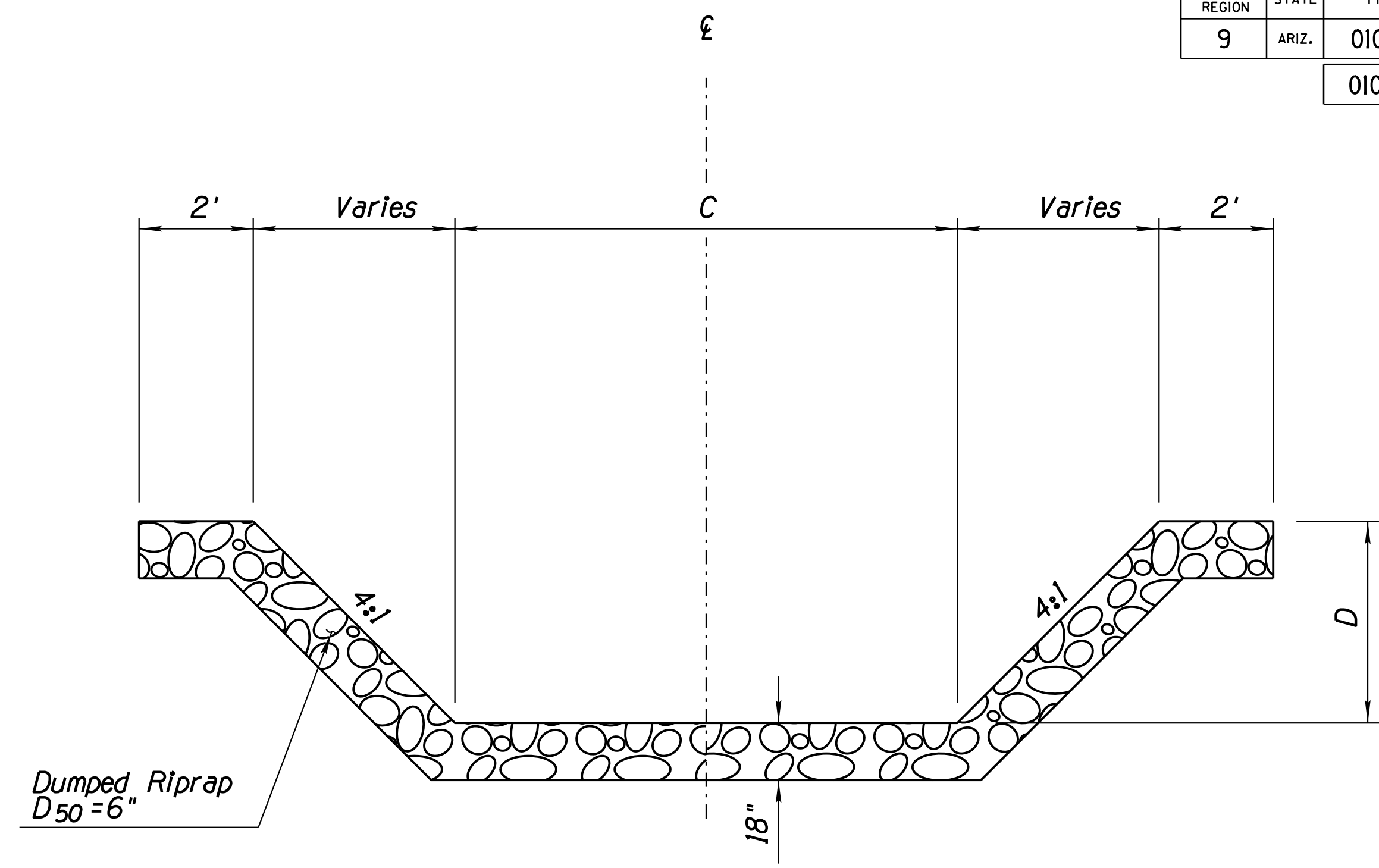
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	284	849	

010 PM 252

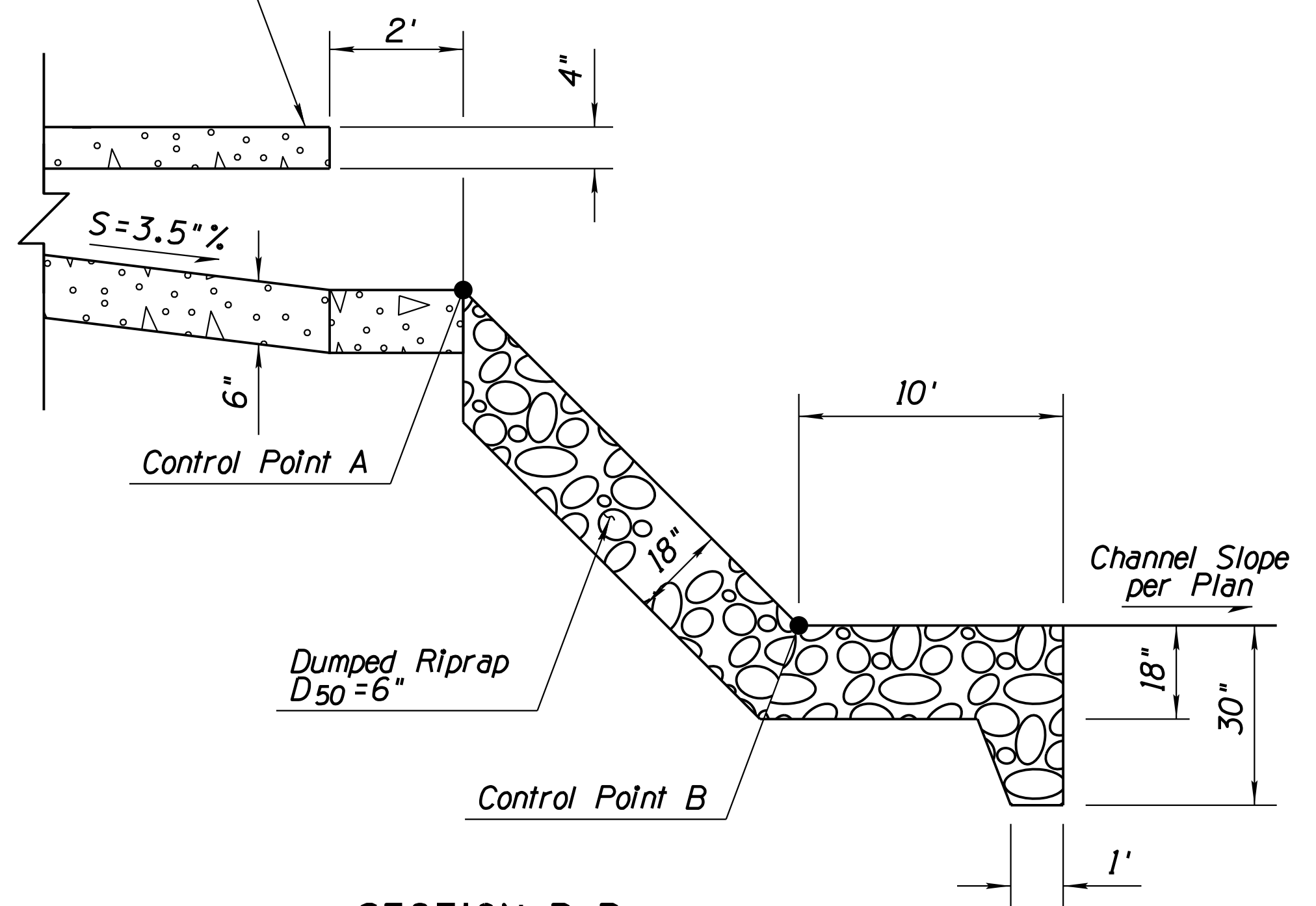


**PLAN VIEW**  
N.T.S.



**SECTION A-A**  
N.T.S.

PC Detail No. 205.5  
Sidewalk Scupper Type 3



**SECTION B-B**  
N.T.S.

Scupper ID	CONTROL POINT		C (ft)	D (ft)	Riprap Vol (CY)
	A	B			
*SC01	Sta 112+36.93 266.27' Lt Elev = 2245.64	Sta 112+36.88 256.27' Lt Elev = 2245.09	12	2.5	31
*SC02	Sta 114+52.58 131.95' Lt Elev = 2245.97	Sta 114+30.08 135.39' Lt Elev = 2244.00	12	2.5	58
*SC03	Sta 115+38.58 102.22' Rt Elev = 2246.93	Sta 115+62.02 115.32' Rt Elev = 2245.42	12	2.0	83
*SC04	Sta 114+65.97 118.88' Rt Elev = 2246.56	Sta 114+38.66 154.48' Rt Elev = 2244.47	8	2.5	48
**SC05	Sta 2007+44.07 30.00' Rt Elev = 2248.17	N/A	--	--	--
**SC06	Sta 2008+54.41 29.45' Rt Elev = 2247.64	N/A	--	--	--

\* Station Offset per Ruthrauff Cst  $\xi$ .  
\*\* Scupper SC05 & SC06 Control Point A station offset are based on CL. No Riprap Spillway needed for SC05 & SC06. The Lengths of both SC05 & SC06 are 22ft. The Width of the Sidewalk is 7ft.

# DETAIL D5

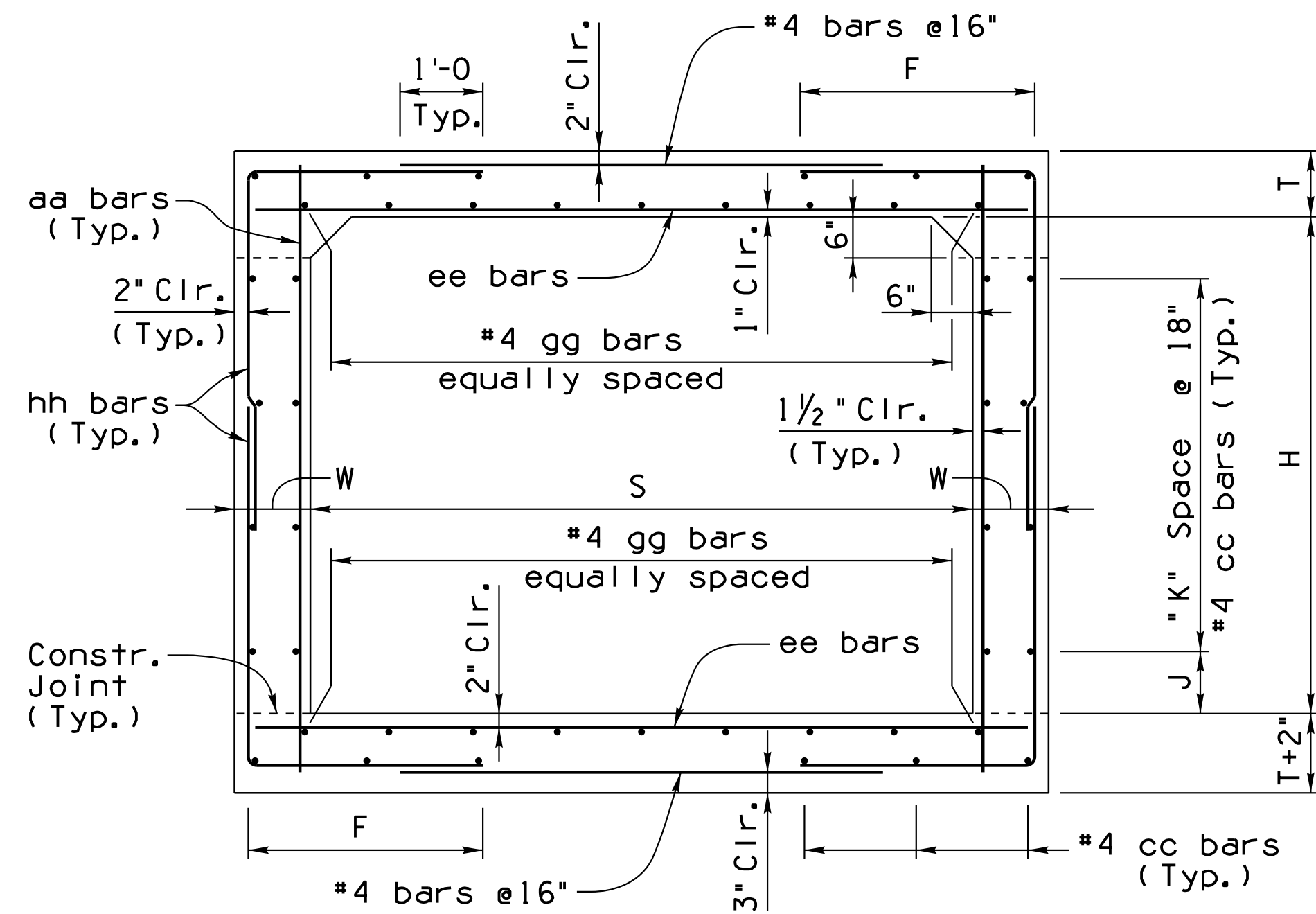
%Passing	Size (in)
100	9
85	8
50	6
15	3

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		DRAINAGE DETAIL SPILLWAYS
ROUTE	LOCATION	RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S	EXPRES 9/30/2019 DWG NO. D-5.05 OF



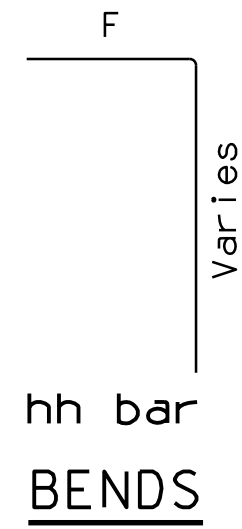
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	285	849	

010 PM 252



TYPICAL SECTION  
SINGLE BARREL

Height * H'	J' Dim.	K' Spaces
2'	3'	1'

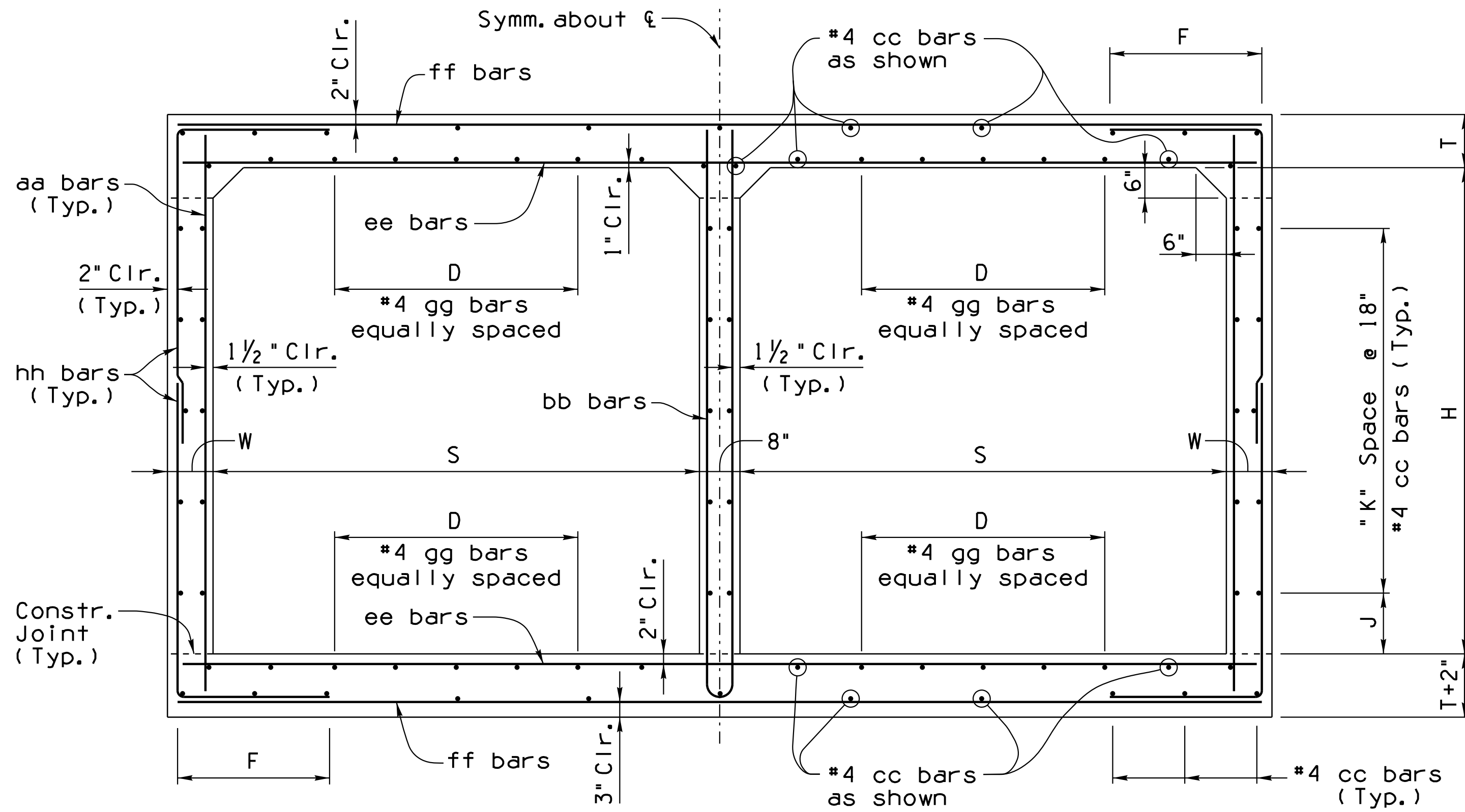


**NOTE:**

For General Notes, Dimensions, and additional Details, see SD 6.01.

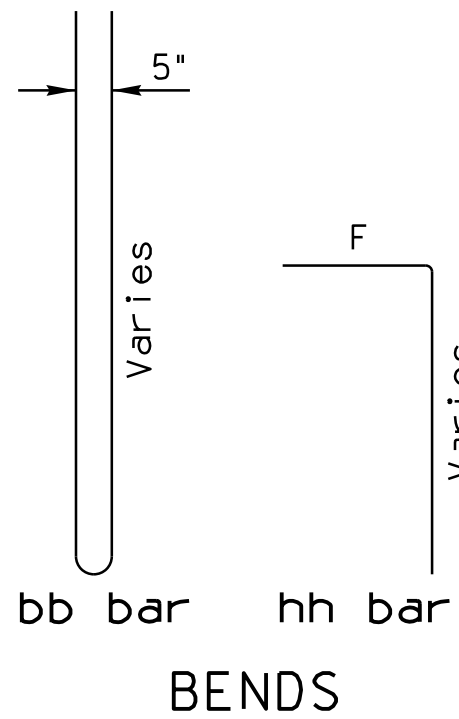
Span * S'	Height * H'	Slab * T'	aa		cc	ee		gg		hh					
			Bar Size	Spacing		Bar Size	Spacing	Bar Size	Spacing	Bar Size	Spacing				
10'	2'	10'	13'	5	12'	3'-5	20	6	8"	11'-10	22	5	6"	6'-10	4'-4

Span * S'	Height * H'	Table I	
		Concrete C. Y.	Reinf. Steel Lbs.
10'	2'	1.000	151.3



TYPICAL SECTION  
DOUBLE BARREL

Height * H'	J' Dim.	K' Spaces
2'	3'	1'



**NOTE:**

For General Notes, Dimensions, and additional Details, see SD 6.02.

Span * S'	Height * H'	Top Slab * T'	aa		bb	cc	ee		ff		gg	hh										
			Bar Size	Spacing			Bar Size	Spacing	Bar Size	Spacing		Bar Size	Spacing									
9'	2'	10 1/2'	11'	5	12'	3'-6	5	12'	6'-11	48	5	6"	20'-1	6	6"	20'-1	32	5'-0	5	6"	5'-6	2'-8

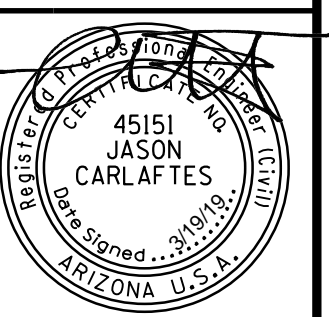
⊕ Total number of bars in the cross-section.

Span * S'	Height * H'	Table II	
		Concrete C. Y.	Reinf. Steel Lbs.
9'	2'	1.659	318.3

# DETAIL D6

MODIFIED SD-6.01 & SD-6.02

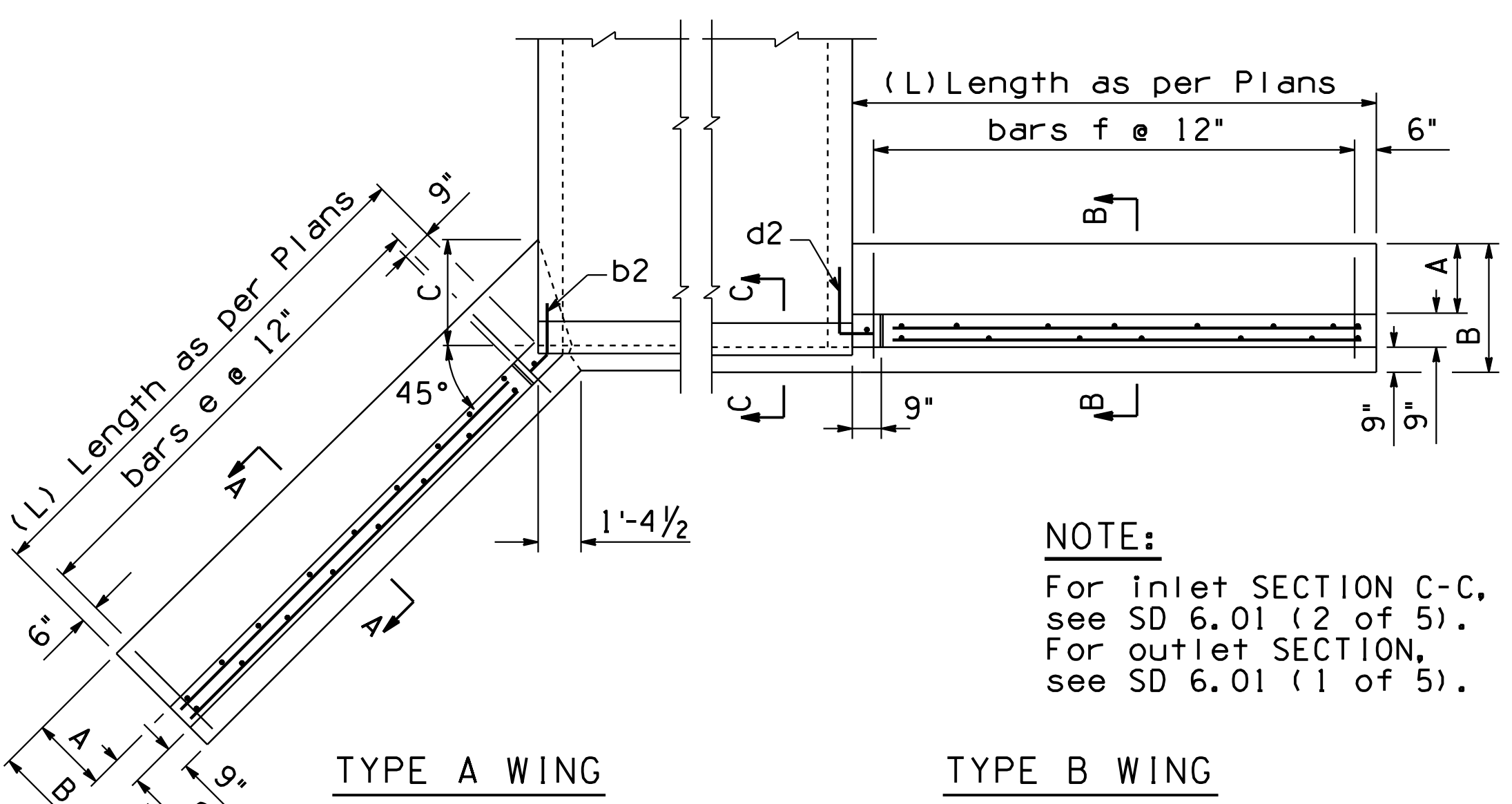
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	WHI	3-19	
CHECKED	CPG	3-19	
wsp			DRAINAGE DETAIL REINFORCED CONC BOX CULVERT
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	RUTHRAUFF ROAD T1	
TRACS NO. H 8480 OIC	010-D(213)S		Expires 9/30/2021 DWG NO. D-5.06



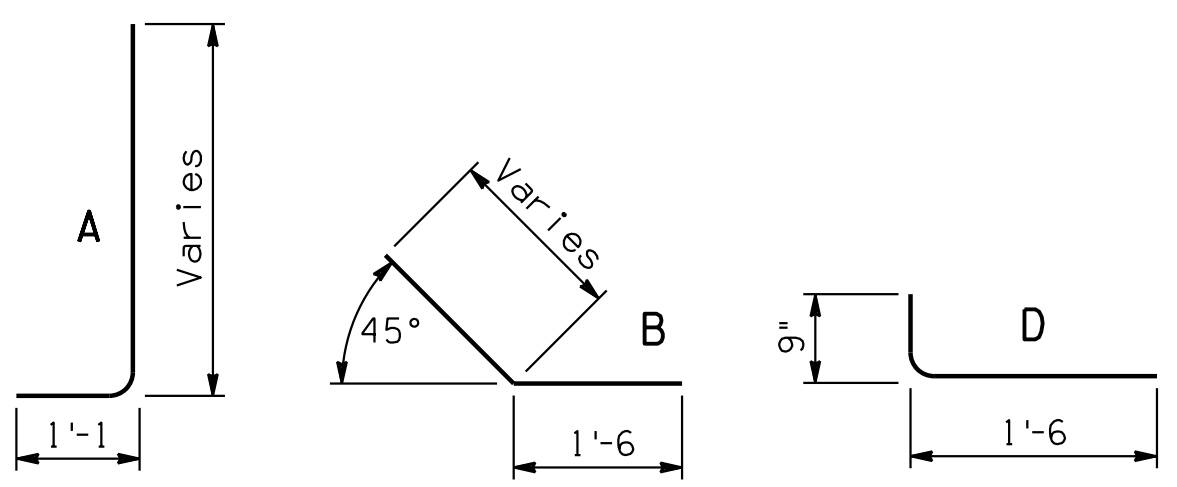
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	O10-D(213)S	286	849	

O10 PM 252



**NOTE:**  
For inlet SECTION C-C, see SD 6.01 (2 of 5).  
For outlet SECTION, see SD 6.01 (1 of 5).



**BENDS**

**NOTE:**  
For General Notes, Dimensions, and additional Details, see SD 6.01 (1 & 2 of 5).

**APPROXIMATE HEADWALL QUANTITIES \***

Span	Height	Hdwl. Type A Wings				Hdwl. Type B Wings			
		For L=H+2'		Per each Add Ft		For L=H+2'		Per each Add Ft	
		Conc.	Steel	Conc.	Steel	Conc.	Steel	Conc.	Steel
9'	2'	4.61	285	0.2891	17	4.75	305	0.3056	18
10'	2'	4.70	298	0.2902	17	4.83	322	0.3067	18

\* Includes curb and cut-off wall quantities for a single barrel.

**WINGS STEEL LIST (L=H+2')**

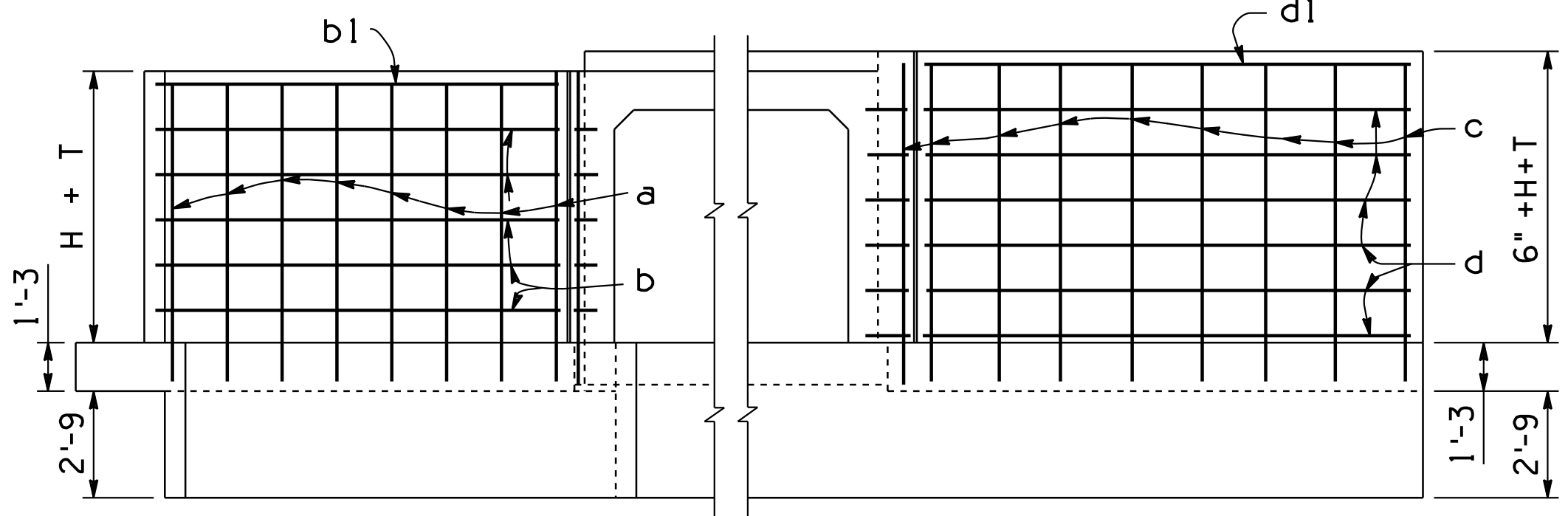
Mark	Bend	2' Height		
		No.	Size	Length
TYPE A WING				
a	A	12	#5	4'-6
al	str.	8	#4	3'-6
b	str.	8	#4	3'-0
bl	str.	4	#6	3'-0
b2	B	6	#4	2'-3
e	str.	12	#5	1'-6
g	B	2	#4	7'-9
m	str.	8	#4	4'-0
TYPE B WING				
c	A	12	#5	5'-0
cl	str.	8	#4	4'-0
d	str.	8	#4	3'-0
dl	str.	4	#6	3'-0
d2	D	6	#4	2'-3
f	str.	10	#5	1'-6
gl	str.	2	#4	7'-9
n	str.	8	#4	4'-0

**DIMENSIONS**

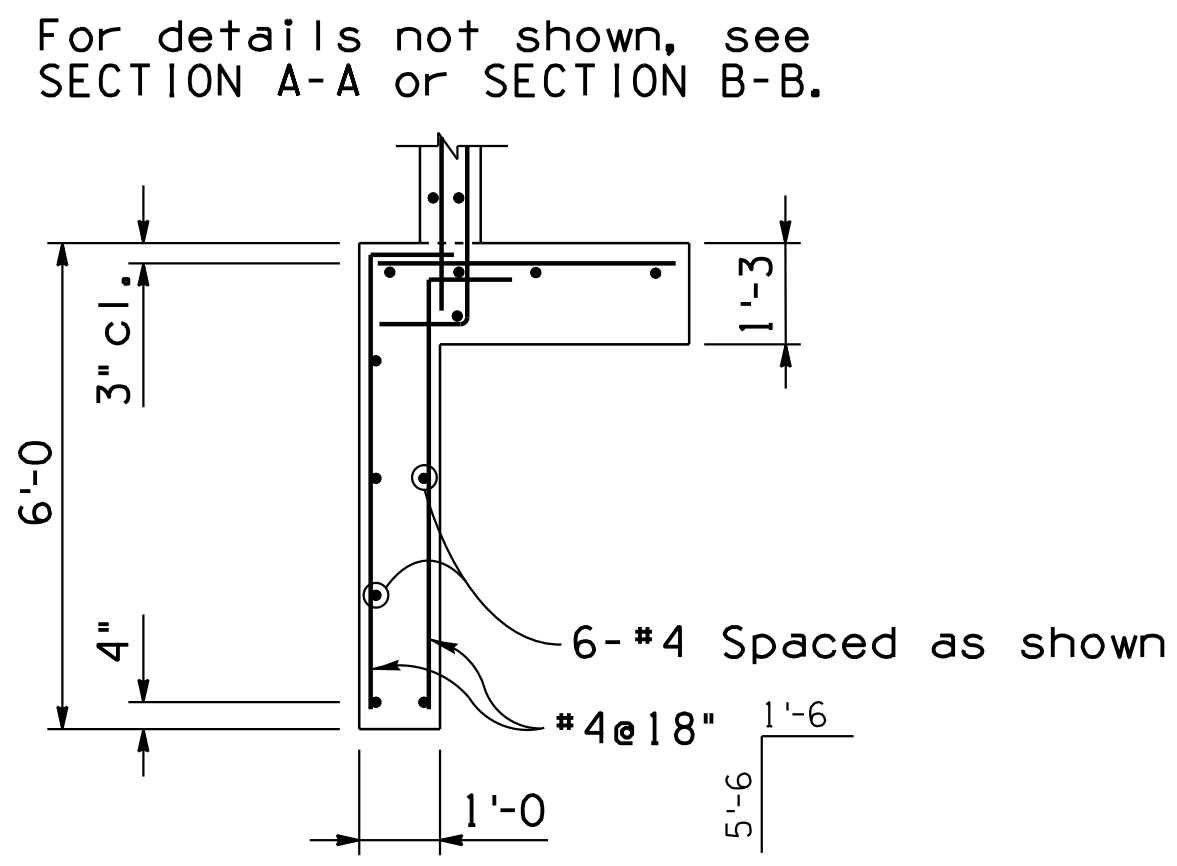
HEIGHT of OPENING	A	B	C
2'	1'-6	3'-0	1'-9

**CURB & CUT-OFF QUANTITIES PER EACH ADDITIONAL BARREL**

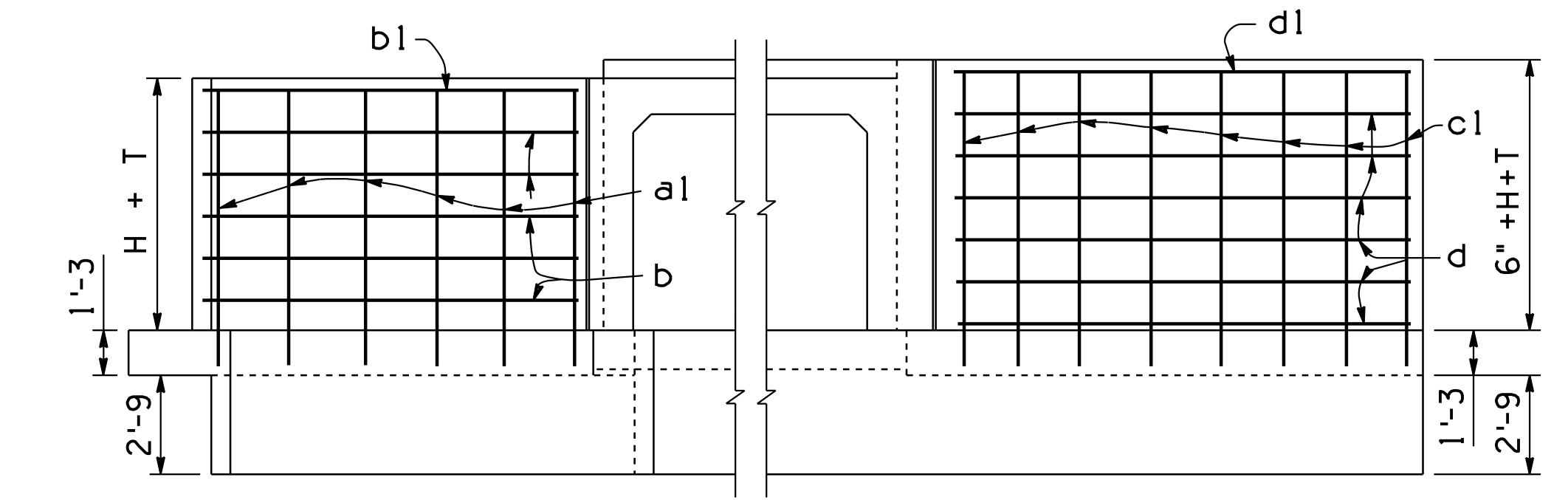
9' Spans	
Conc.	Steel
1.242	117



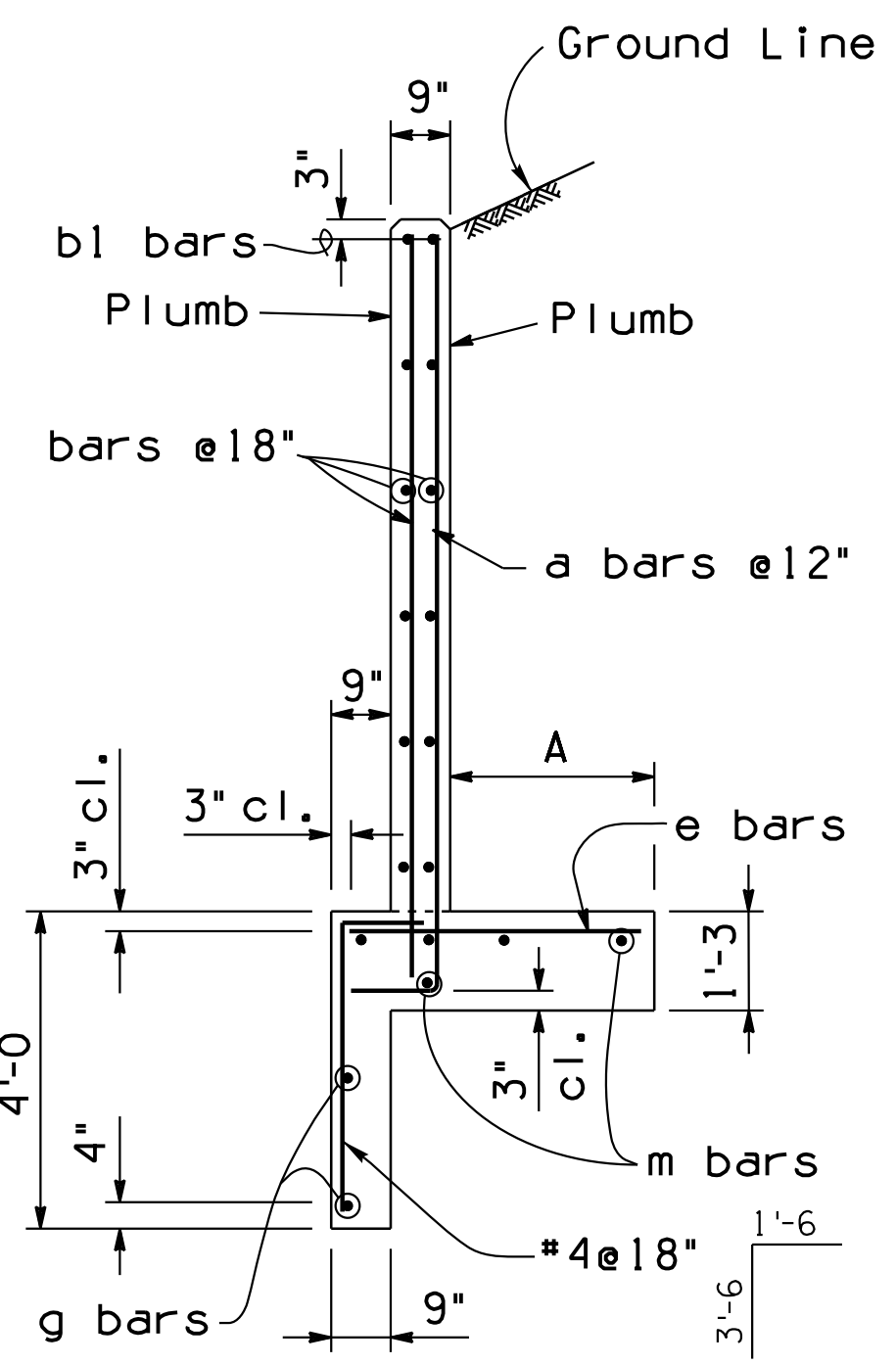
**ELEVATION (Back Face Reinf.)**  
(Shown At Inlet)



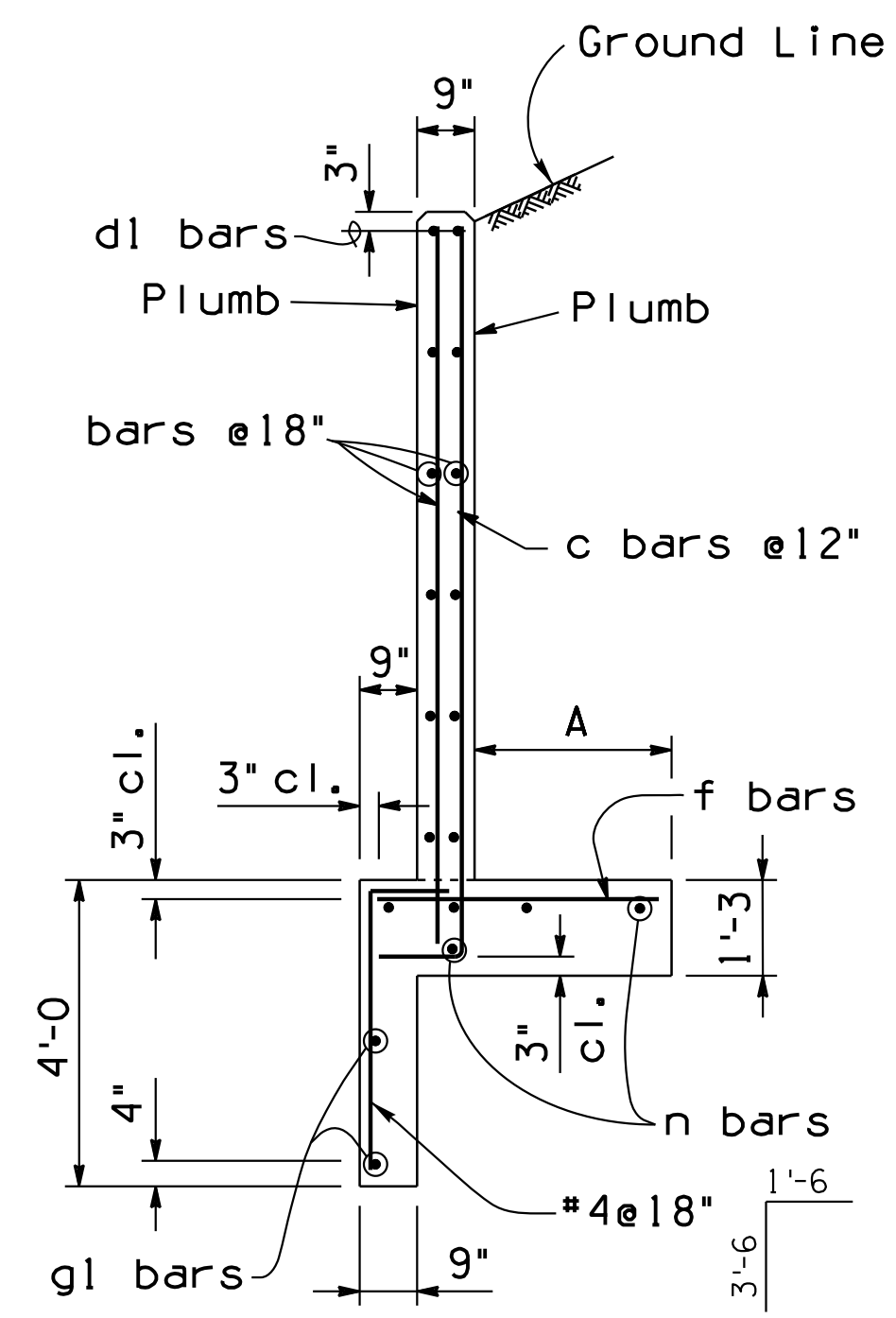
**OUTLET CUT-OFF WALL DETAIL**



**ELEVATION (Front Face Reinf.)**  
(Shown At Inlet)



**SECTION A-A**

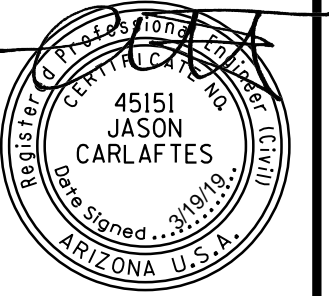


**SECTION B-B**

# DETAIL D7

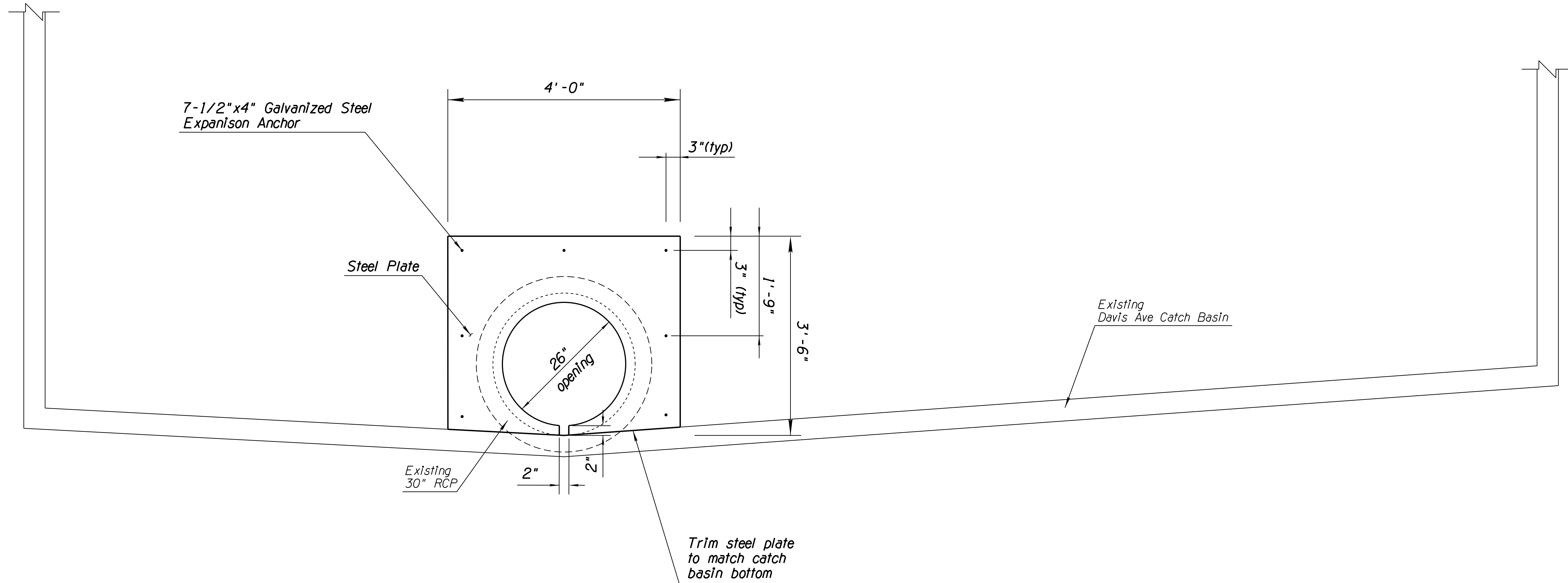
MODIFIED SD-6.10

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
ROUTE		LOCATION		DRAINAGE DETAIL INLET AND OUTLET LEVEL WINGS
I-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC				O10-D(213)S



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	287	849	

010 PM 252



ORIFICE PLATE DETAIL

# DETAIL D8

**NOTES:**

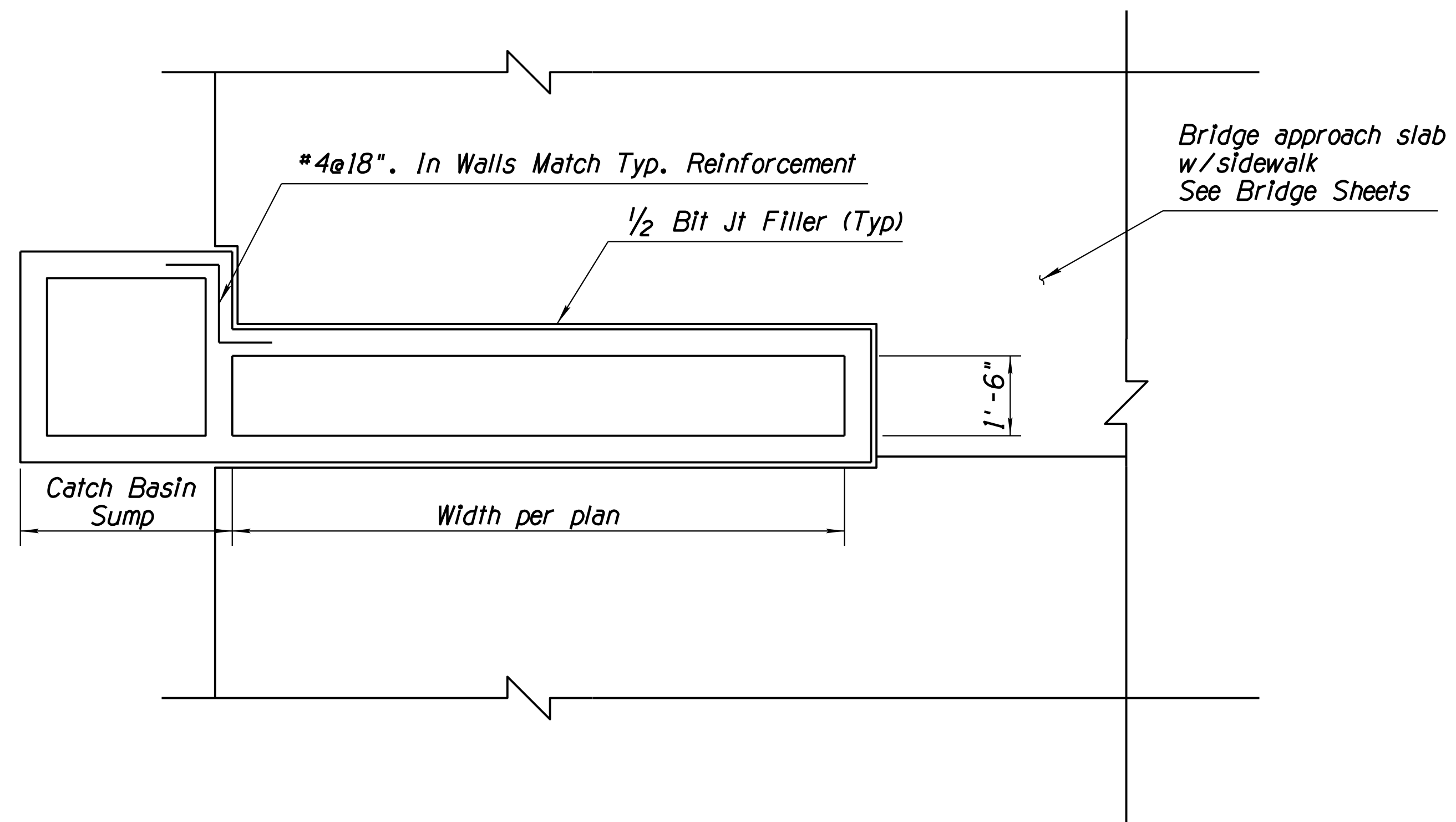
1. Drill 5/8" hole, 4" deep, for 1/2" steel expansion anchor.
2. Orifice plate shall be steel with a minimum thickness of 1/4". Attach orifice plate with 1/2" galvanized steel expansion anchors.
3. Steel plate opening is to be cut round and smooth.
4. Steel plate shall be given one shop coat of Number 1 paint.

DESIGN	WHI	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		DRAINAGE DETAIL ORIFICE PLATE FOR DAVIS AVE	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	288	849	

010 PM 252



# DETAIL D9

MODIFIED C-15.20

**NOTES:**

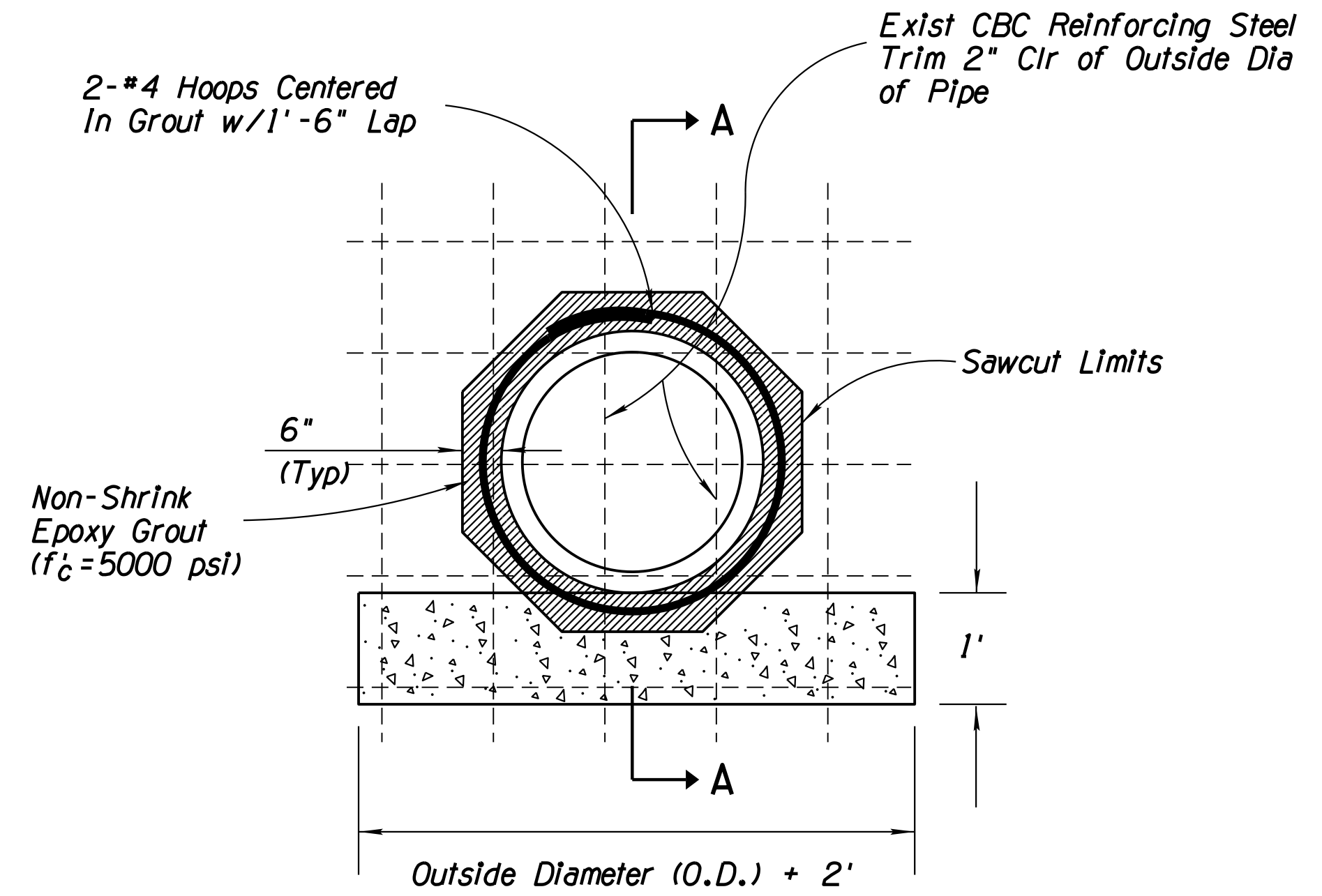
1. For additional details and dimensions, see ADOT Std C-15.20, (Sim).
2. For additional details about reinforcing steel, see see ADOT Std C-15.20.
3. See Bridge plans for Approach slab notch out.

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	GB/JC	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		DRAINAGE DETAIL MODIFIED ADOT C-15.20	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

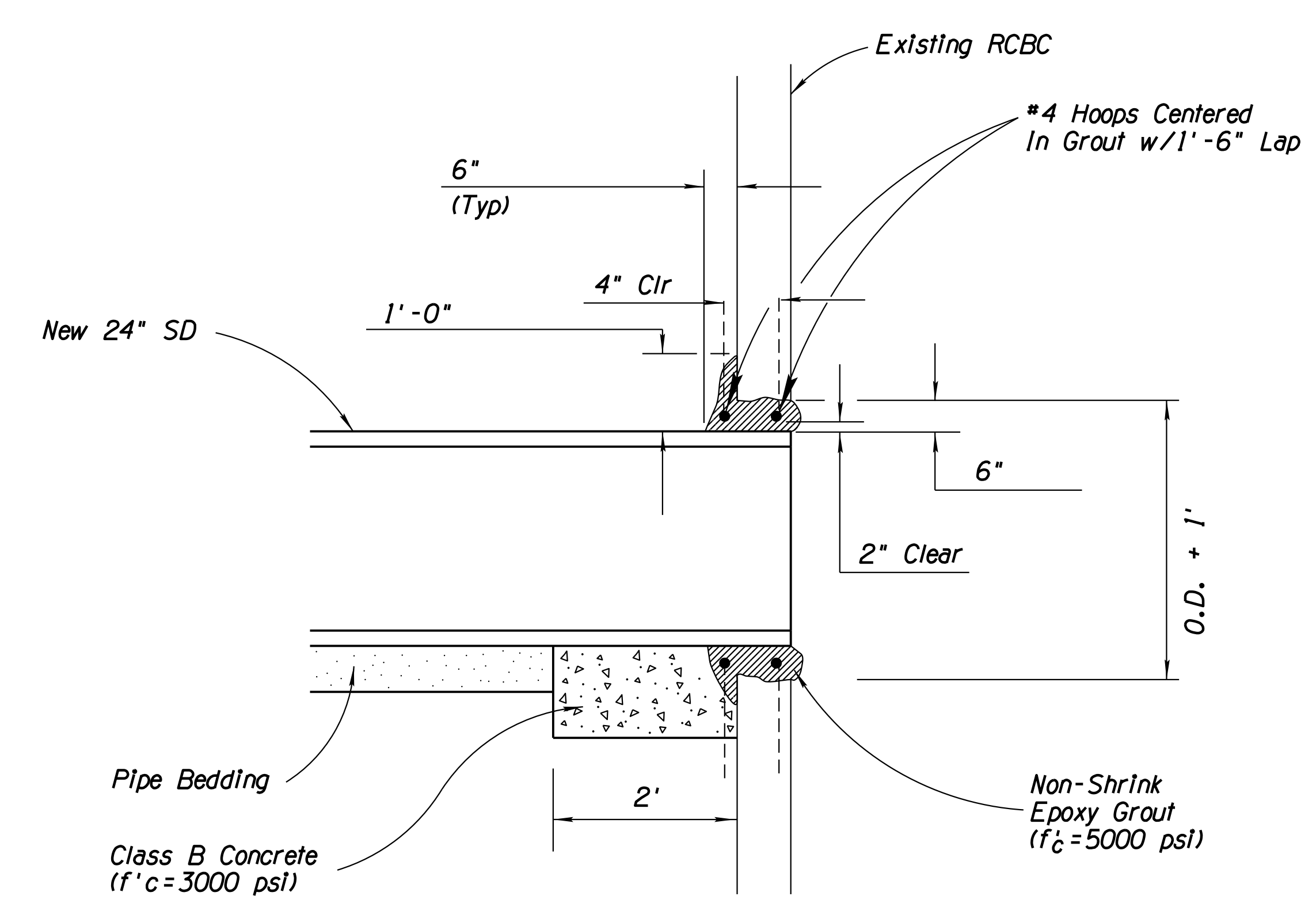
SURVEY NO. | FINISHED PLANS | REVISIONS | LOCATION | DATE | FINISHED PLANS | REVISIONS | LOCATION | DATE | SURVEY NO. | FINISHED PLANS | REVISIONS | LOCATION | DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	289	849	

010 PM 252



**ELEVATION**

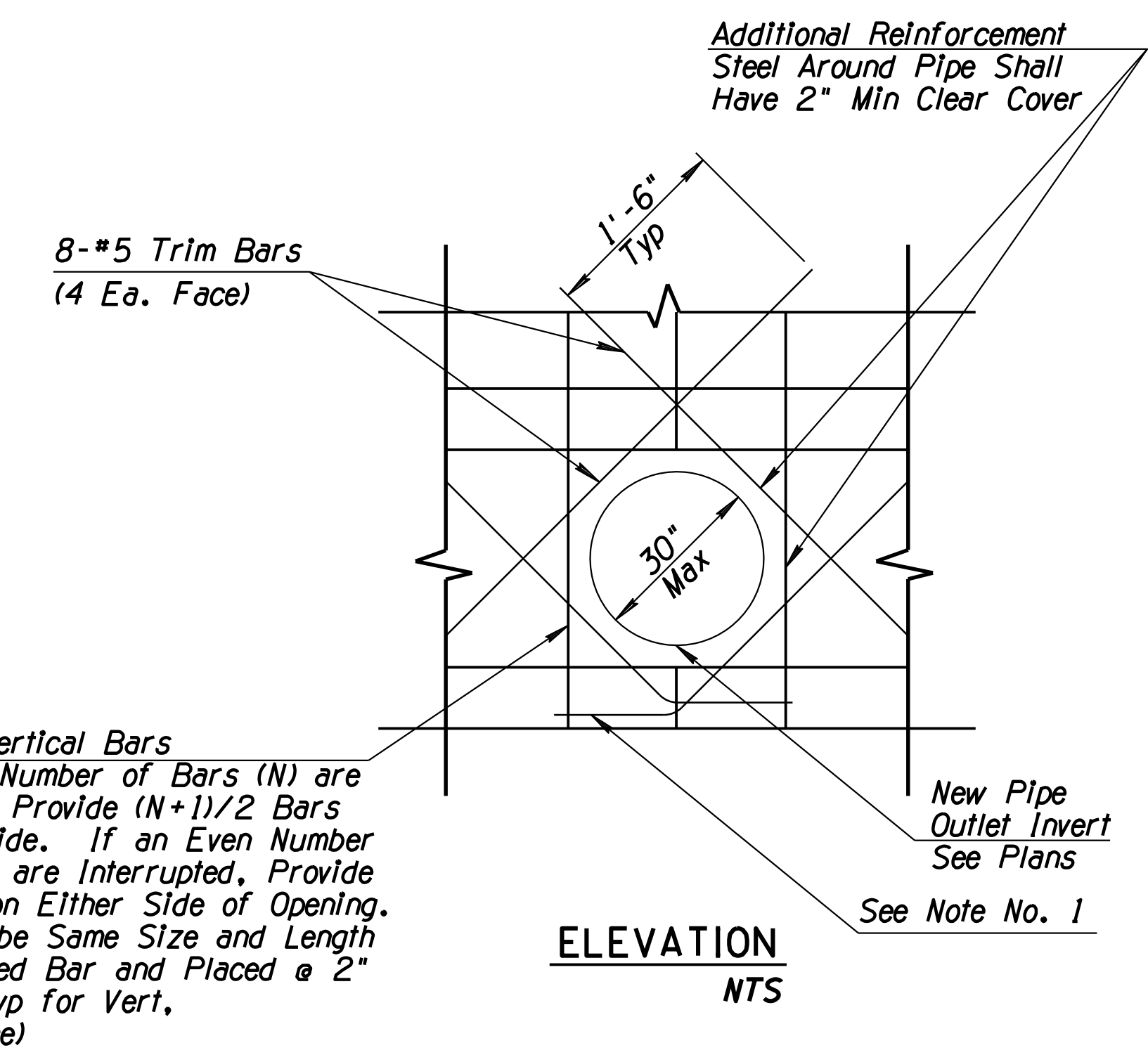


**SECTION A-A**

# DETAIL D10

PIPE CONNECTION TO EXISTING CBC

- Notes:**
- The cost of the pipe connection, including epoxy material, reinforcing hoops, and concrete material, shown in this detail shall be included in the cost of the pipe.
  - The epoxy and reinforcing steel materials shall conform to the requirements of the ADOT standard specifications.



**ELEVATION**  
NTS

**NOTES:**

- Provide Standard Hook meeting the requirements of AASHTO Article S.10.2 If Straight Extension Past Opening Cannot Be Obtained.
- Place Additional Reinforcing In The Same Plane As The Reinforcing It Is Replacing.
- Locate Diagonal Bars Such That Positioning Of Mat Or Minimum Clearances Required Are Not Affected.
- The Additional Reinforcing Steel For This Connection Will Be Paid For Under The Lump Sum Item For The Box Culvert Extension Where Connection Occurs. No Additional Payment Will Be Made For This Item.
- For Additional General Notes see ADOT Std Dwg SD 6.01

# DETAIL D11

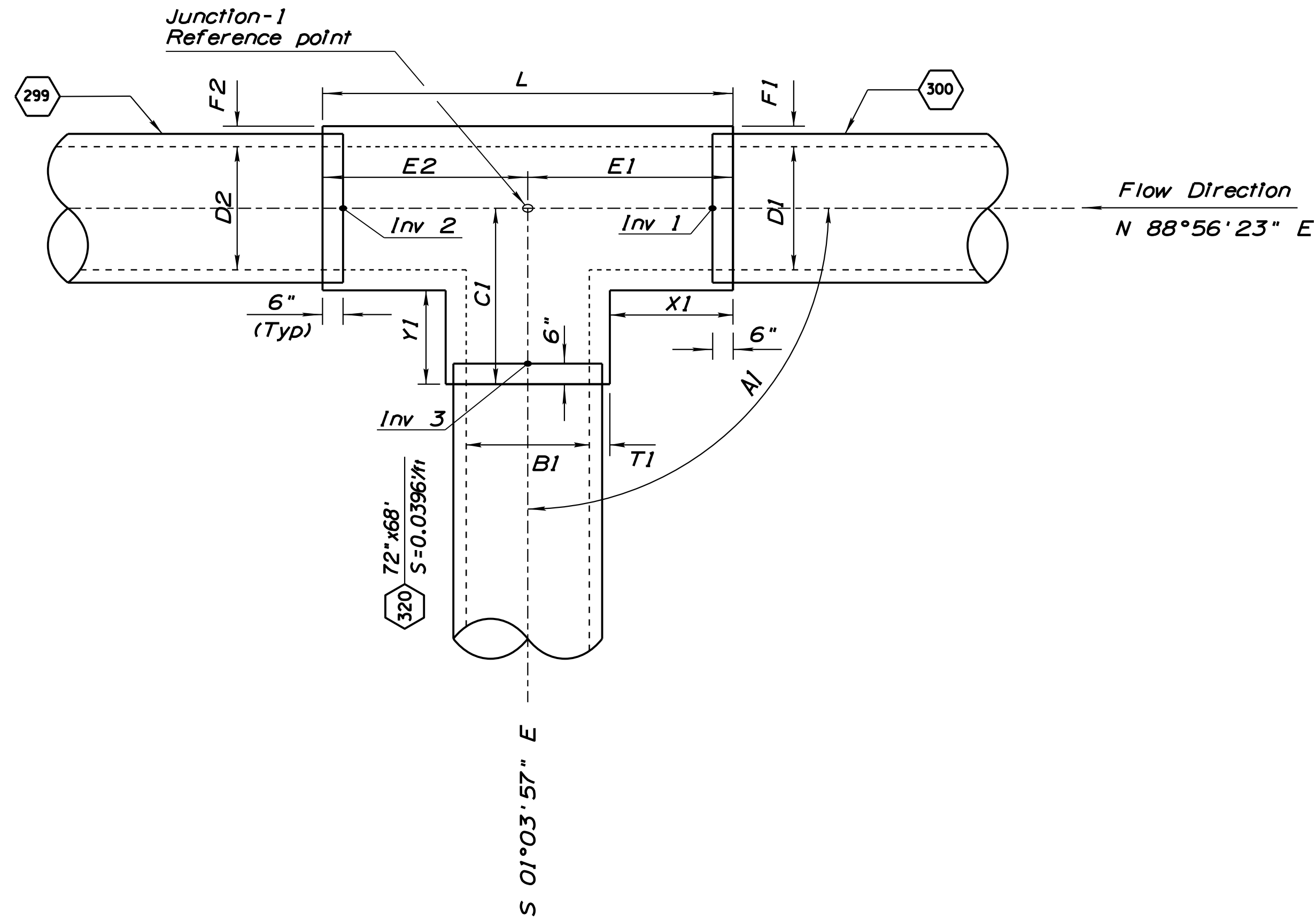
Pipe Connection to New RCBC/Wingwall

DESIGN	DR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
DRAINAGE DETAIL PIPE CONNECTION TO RCBC				
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	Expires 9/30/2021
TRACS NO. H 8480 OIC			010-D(213)S	DWG NO. D-5.10
				OF

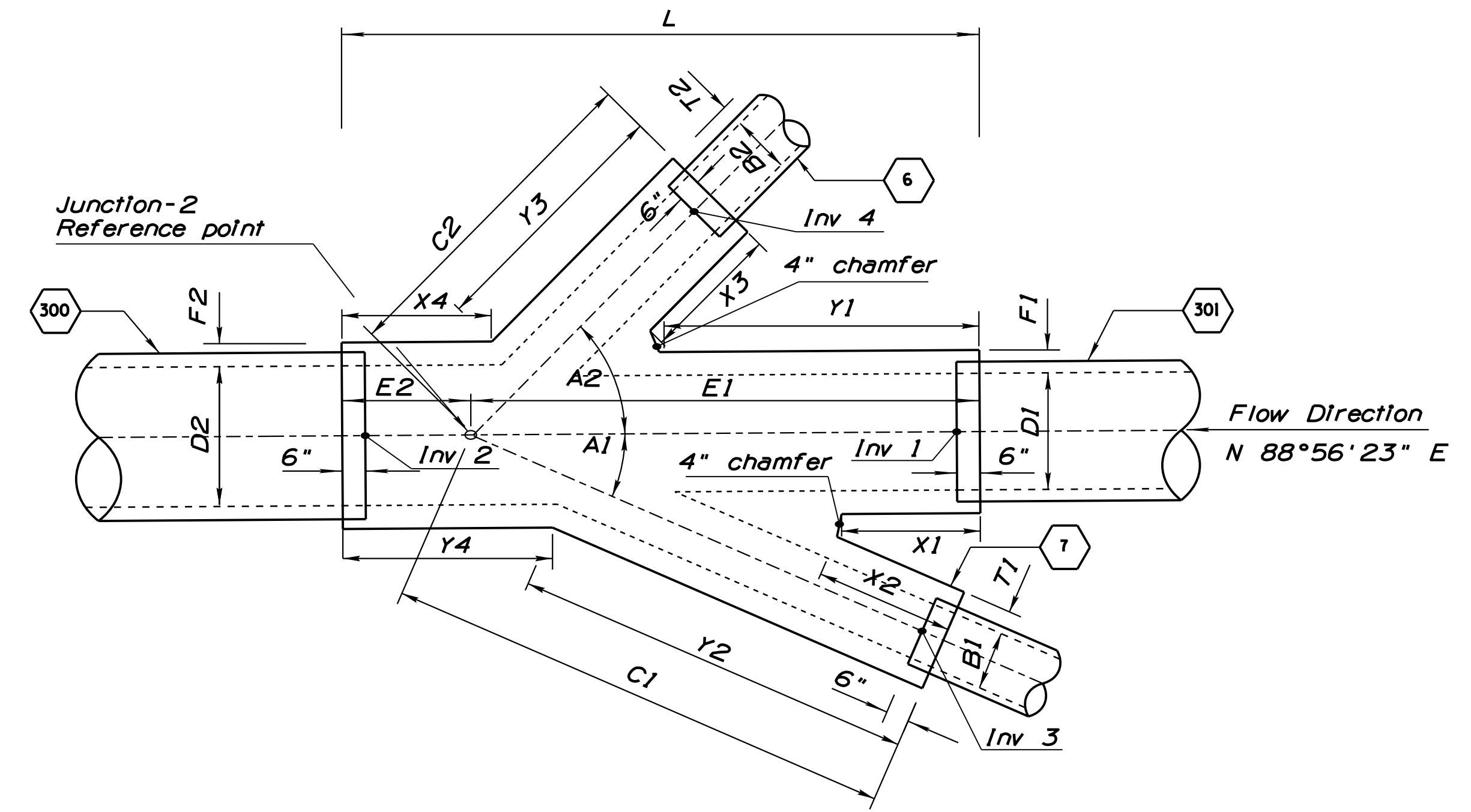
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	290	849	

010 PM 252



PLAN - Junction 1 (JS-1)  
NTS



PLAN - Junction 2 (JS-2)  
NTS

Dimension Table

ID	Reference point	A1	A2	B1	B2	D1	D2	C1	C2	F1	F2	T1	T2	E1	E2	L	X1	X2	X3	X4	Y1	Y2	Y3	Y4	INV 1	INV 2	INV 3	INV 4
JS-1	Sta 106+70, 25.7' Rt	90°00'00"		72"		72"	72"	66"		11"	11"	11"		65"	65"	130"	18"				18"				2232.09	2232.06	2232.08	
JS-2	Sta 107+73, 25.6' Rt	44°59'20"	23°52'33"	30"	30"	60"	72"	192"	110"	11"	11"	11"	11"	189"	6.8"	196"	18"	18"	18"	18"	102"	135"	69"	48.5"	2231.91	2231.73	* 2234±	* 2234±

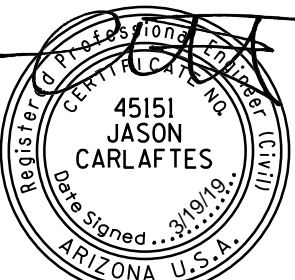
**NOTE:**

Refer to PAG Std Detail No. 312 and Storm drain profiles for additional information and requirements.

\* Match exst and field verify Invert elevation and slope.

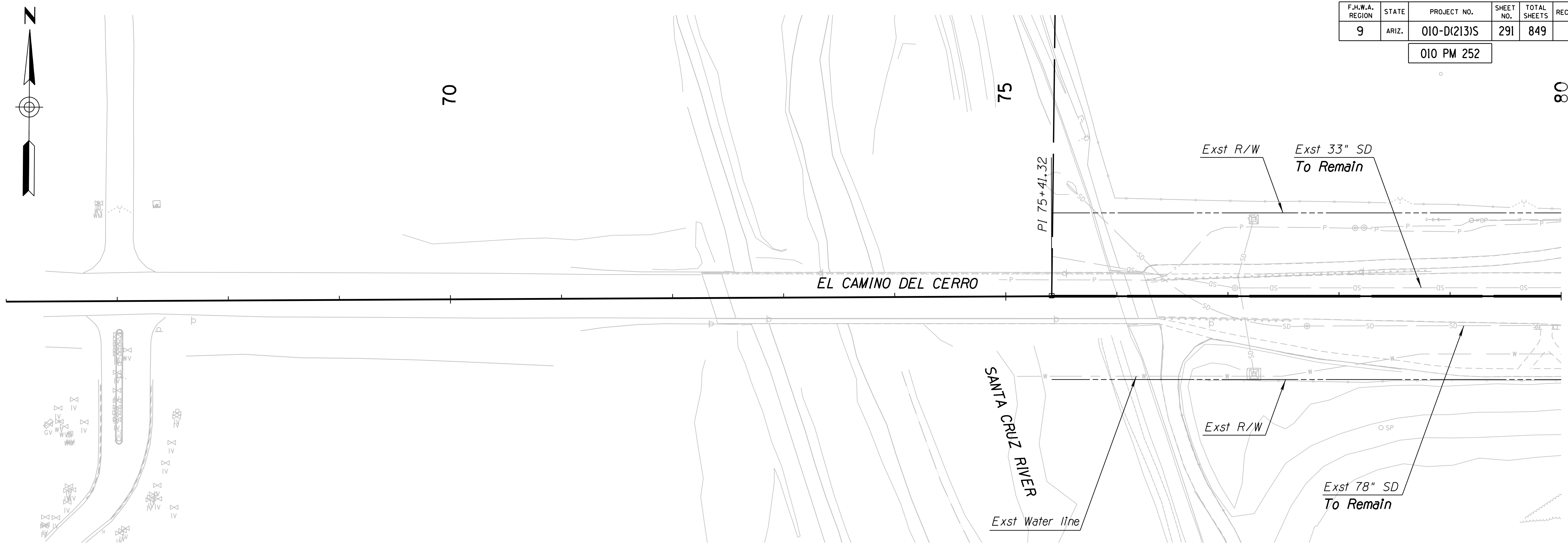
# DETAIL D12

DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB/JC	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		STORM DRAIN JUNCTION STRUCTURE
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		Expires 9/30/2021 DWG NO. D-5.12



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	291	849	

010 PM 252



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

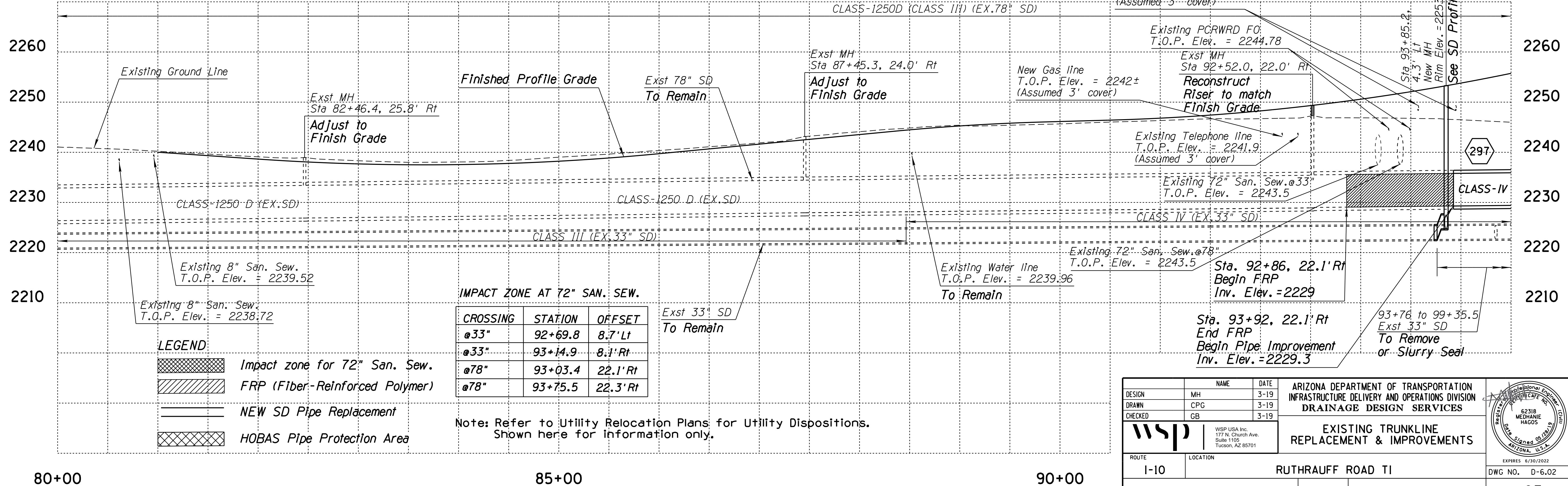
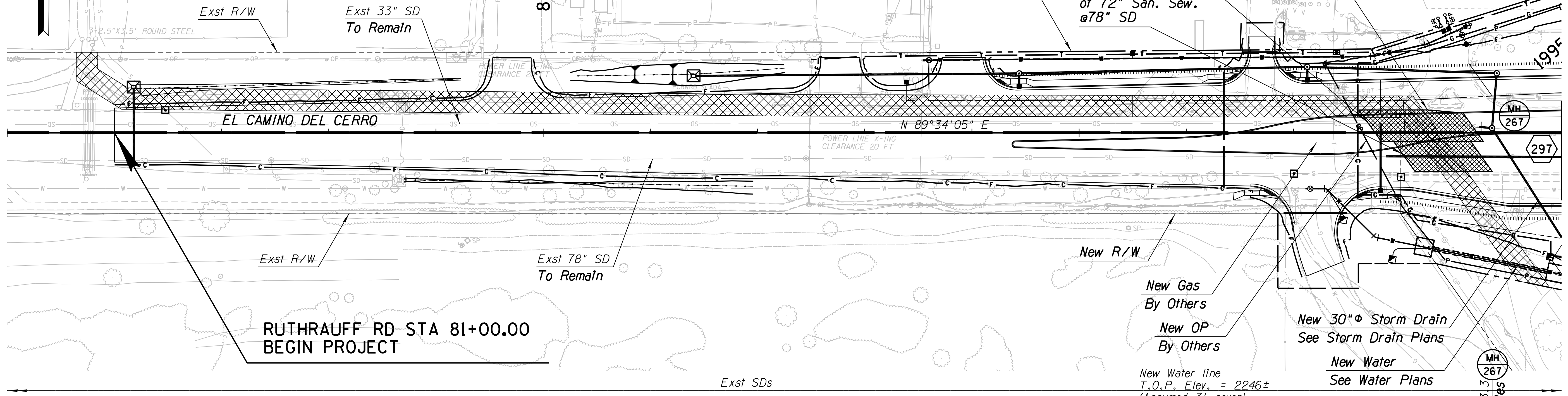
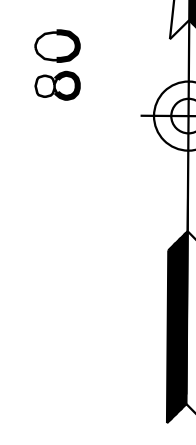
DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>EXISTING TRUNKLINE REPLACEMENT &amp; IMPROVEMENTS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. D-6.01 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	292	849	

010 PM 252

**NOTE: SEE BID ITEM 9240050 OF THE SPECIAL PROVISIONS. FOR SPECIFIC INSTRUCTIONS REGARDING STORM DRAIN IMPROVEMENT.**

**NOTE:**  
1. Contractor shall protect the existing HOBAS pipe in place. Live Loads exceeding HL-93 loading, including heavy hauls, crane pad placement, etc., are not acceptable within 10 feet either side of the existing HOBAS pipe (as measured from the pipe centerline). Only non-vibratory compaction methods shall be used within the HOBAS Pipe Protection Area. Excavation depths shall not exceed 2 feet within the Protection Area without approval by the Engineer. Roadway Overexcavation per Detail Q shall not be performed within the Protection Area. Stockpiling, placement of spoils and/or material is not acceptable within the Protection Area. See the General Requirements section of the Special Provisions for additional information.



CROSSING	STATION	OFFSET
Ø33"	92+69.8	8.7' Lt
Ø33"	93+14.9	8.1' Rt
Ø78"	93+03.4	22.1' Rt
Ø78"	93+75.5	22.3' Rt

Note: Refer to Utility Relocation Plans for Utility Dispositions. Shown here for information only.

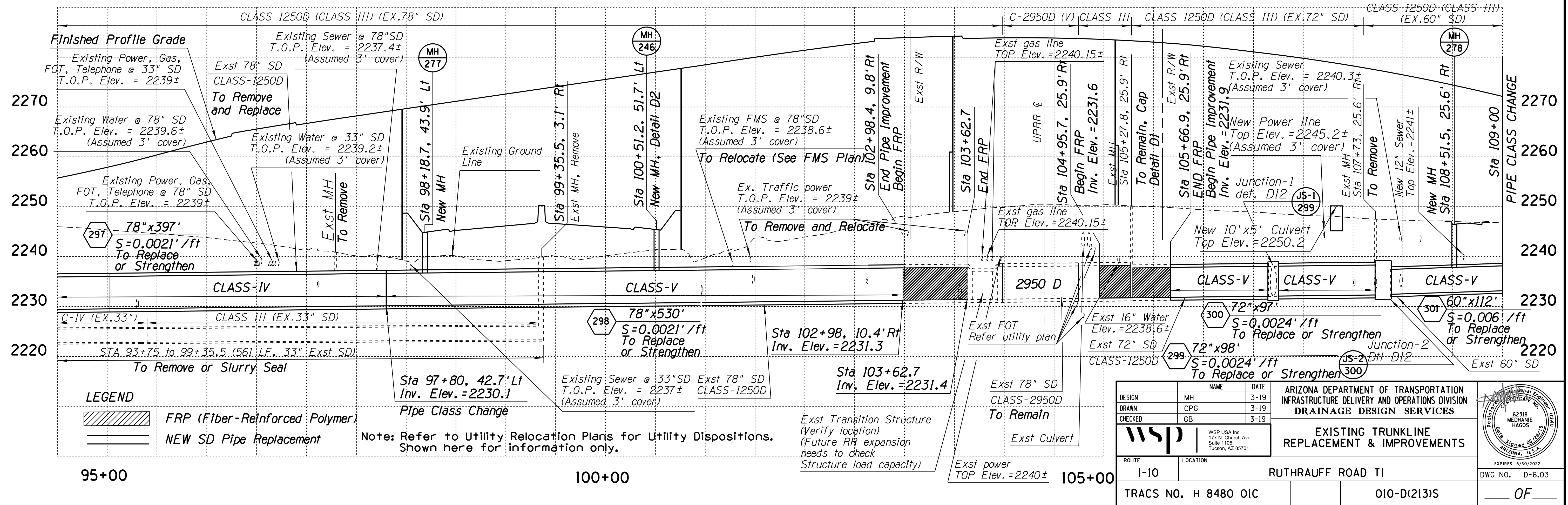
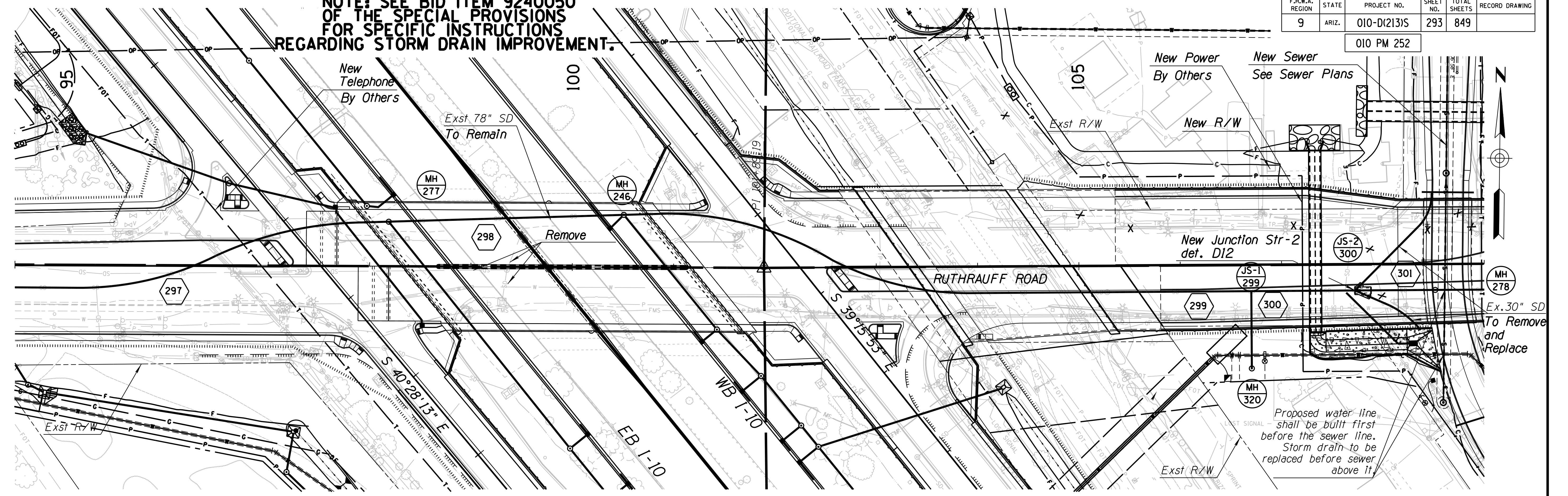
DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	GB	DATE	3-19		
<b>wsp</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701					
ROUTE		LOCATION		RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		OF	



**NOTE: SEE BID ITEM 9240050 OF THE SPECIAL PROVISIONS REGARDING STORM DRAIN IMPROVEMENT.**

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	293	849	

010 PM 252



DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION DRAINAGE DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	GB	DATE	3-19	

**EXISTING TRUNKLINE REPLACEMENT & IMPROVEMENTS**

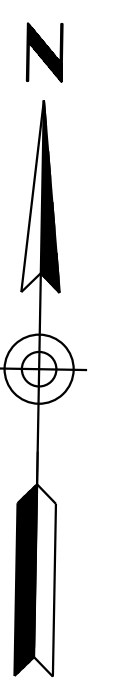
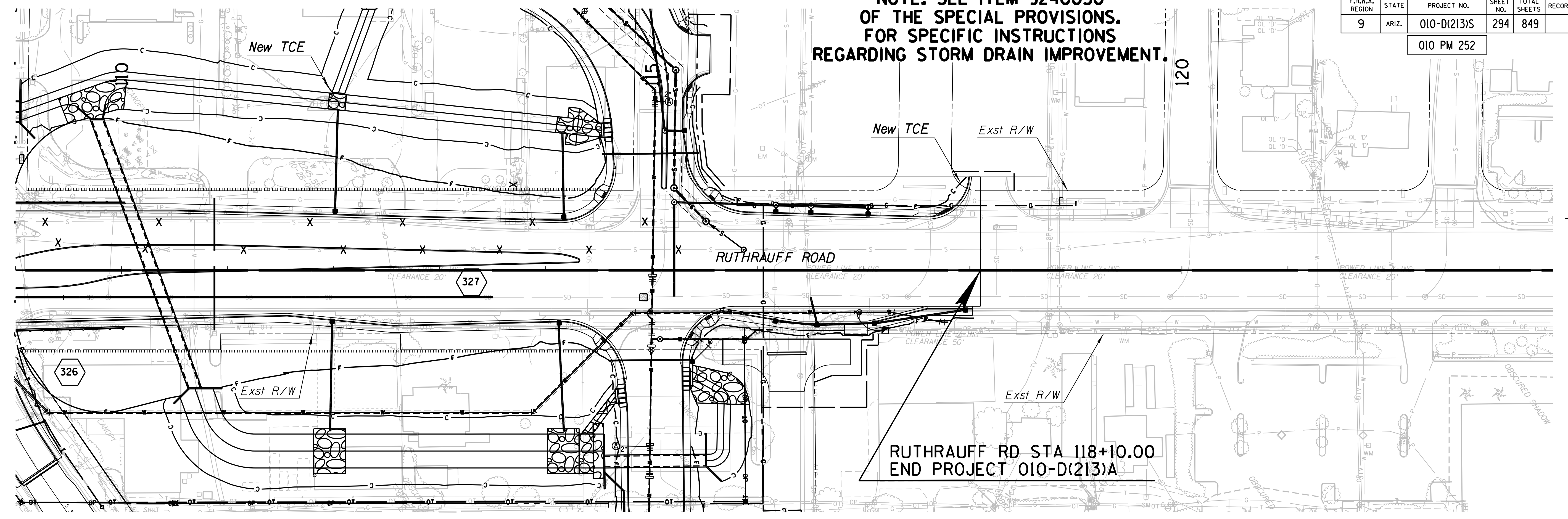
ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 OIC	010-D(213)S	OF
----------------------	-------------	----

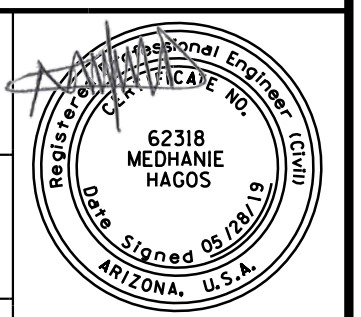
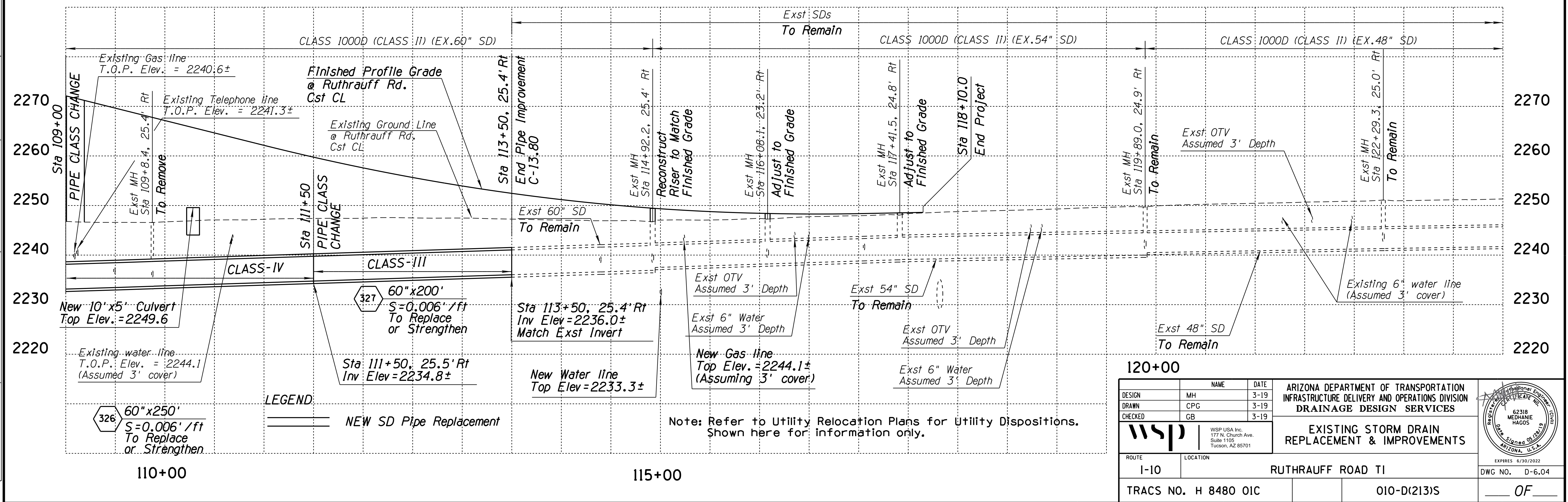
**NOTE: SEE ITEM 9240050 OF THE SPECIAL PROVISIONS FOR SPECIFIC INSTRUCTIONS REGARDING STORM DRAIN IMPROVEMENT.**

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	294	849	

010 PM 252



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

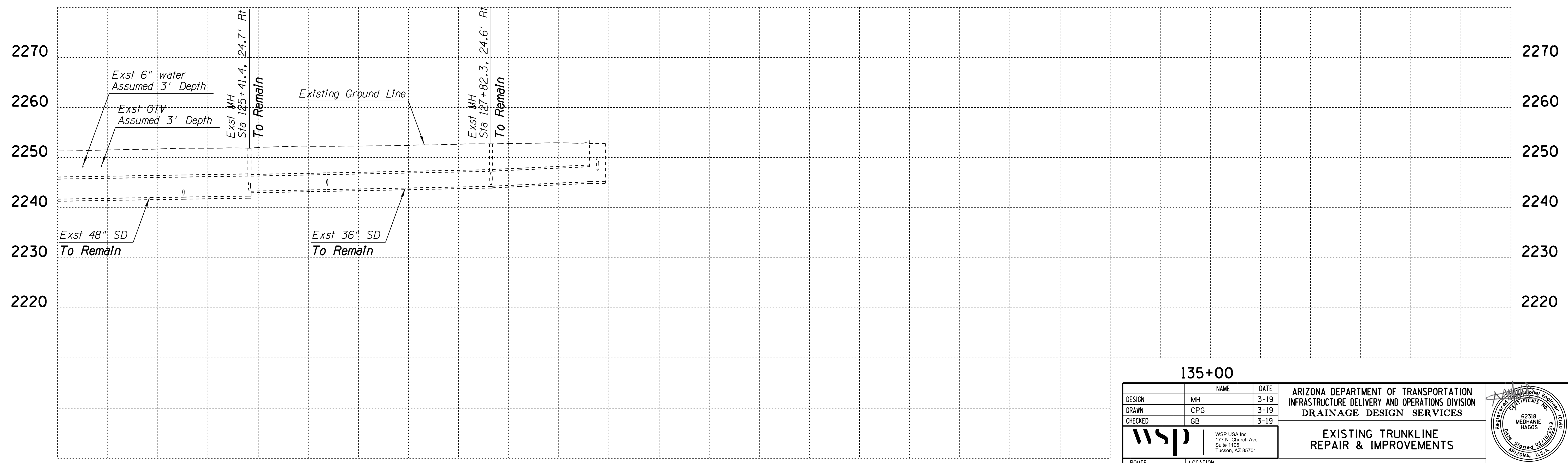
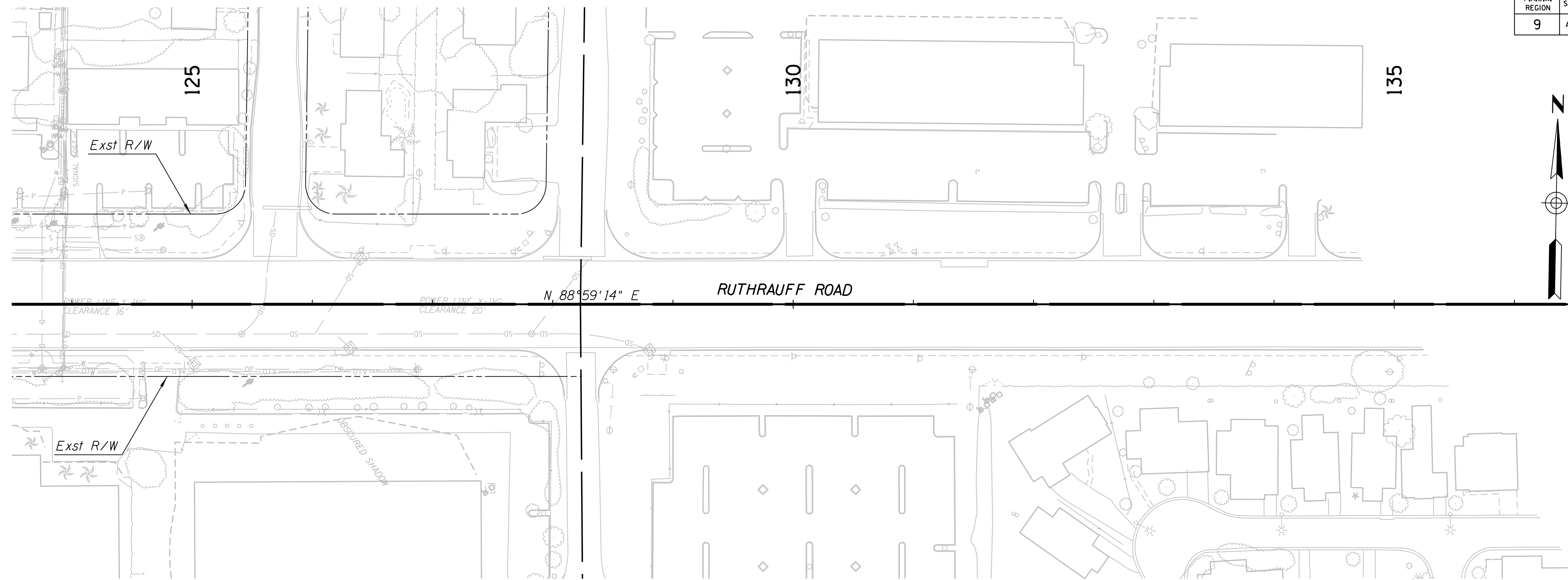
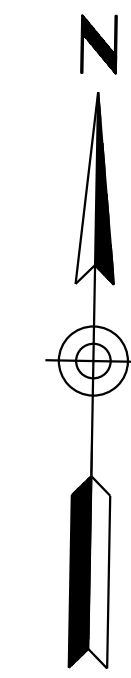


EXPIRES 6/30/2022  
DWG NO. D-6.04

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	295	849	

010 PM 252



135+00

DESIGN	MH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>DRAINAGE DESIGN SERVICES</b>		
DRAWN	CPG	DATE	3-19			
CHECKED	GB	DATE	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>EXISTING TRUNKLINE REPAIR &amp; IMPROVEMENTS</b>		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD T1			EXPIRES 6/30/2019 DWG NO. D-6.05
TRACS NO. H 8480 OIC			010-D(213)S			OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	296	849	

010 PM 252

### Phase 1A

- ① Maintain 3 lanes of travel in each direction on existing EB and WB I-10.
- ② Construct temporary intersection of Sunset Road Ramp D and EB Frontage Road.
- ③ Construct pavement preservation on mainline shoulders by future north crossovers.
- ④ Construct North and South temporary median crossovers.
- ⑤ Construct temporary crossover from WB I-10 to WB Frontage Road.
- ⑥ Construct temporary traffic signal at Sunset Road TI.

### Phase 1B

- ① Maintain 3 lanes of travel in each direction on existing EB and WB I-10.
- ② Construct temporary crossover from WB Frontage Road to WB I-10 by widening Ruthrauff Ramp A and WB mainline.
- ③ Reconstruct WB Frontage Road at Ruthrauff Road to prepare for WB I-10 traffic in Phase 2.
- ④ Construct portions of new box culverts under WB I-10 immediately prior to Phase 2A by shifting WB traffic to new WB detour.
- ⑤ Reconstruct local streets along Ruthrauff east of I-10, maintaining access. Work to be done late in Phase 1B, following utility relocation work. Construct portion of new Ruthrauff bus stop.
- ⑥ Reconstruct western portions of El Camino Del Cerro.

### Phase 2A

- ① Shift WB I-10 traffic onto WB Frontage Road detour using crossovers.
- ② Shift EB I-10 traffic onto WB mainline lanes using crossovers.
- ③ Shift WB Sunset offramp traffic to WB Frontage Road.
- ④ Restripe EB I-10 Sunset Road Ramp B/EB Frontage Road approach to Sunset Road to one lane EB Frontage Road and one lane from EB I-10.
- ⑤ Begin use of temporary traffic signals at Sunset Road TI.
- ⑥ Convert EB Frontage Road to two-way operation south of Sunset Road.
- ⑦ Shift traffic to temporary Sunset Road Ramp D/EB Frontage Road intersection.
- ⑧ Construct Ruthrauff Road bridge over future EB I-10 and El Camino Del Cerro approach.
- ⑨ Reconstruct EB I-10 mainline and EB Frontage Road.
- ⑩ Construct eastern portion of Ruthrauff Road and reconstruct Davis Ave.
- ⑪ Construct temporary EB I-10 mainline pavement for Phase 2B-3C.

### Phase 2B

- ① Shift EB I-10 traffic onto new EB mainline lanes.
- ② Construct first segment of temporary Sunset Ramp C.
- ③ Construct Phase 3 WB crossover at north end of project.
- ④ Open El Camino Del Cerro to the EB I-10 Frontage Road.
- ⑤ El Camino Del Cerro Ramp B remains closed.
- ⑥ Remove temporary Sunset Road Ramp D/EB Frontage Road intersection.
- ⑦ Open Davis Ave/Highway Dr underpass.
- ⑧ Open EB Frontage Road and return it to one-way operation.
- ⑨ Restripe EB I-10 Sunset Road Ramp B/EB Frontage Road approach to Sunset Road to original markings.
- ⑩ Reconstruct west half of EB Frontage Road at Calle Agua Nueva.

### Phase 3A

- ① Shift WB I-10 traffic onto new EB mainline lanes using crossovers.
- ② Construct second segment of temporary Sunset Ramp C.
- ③ WB Sunset offramp traffic uses one lane of Phase 2 WB detour.
- ④ Reconstruct east half of EB Frontage Road at Calle Agua Nueva.

### Phase 3B

- ① Maintain WB and EB I-10 traffic on new EB mainline.
- ② Shift WB Sunset offramp traffic to temporary Ramp C.
- ③ Construct Ruthrauff Road bridge over future WB I-10.
- ④ Construct Ruthrauff Road bridge over UPRR and approaching roadway.
- ⑤ Reconstruct WB I-10 mainline and WB frontage road except in vicinity of temporary Sunset Ramp C.
- ⑥ Reconstruct EB Frontage Road at Ruthrauff Road Ramp B.

### Phase 3C

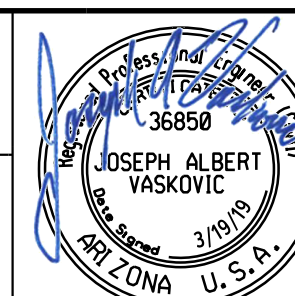

- ① Shift WB Sunset offramp traffic onto one lane of Phase 2 WB detour and new WB Frontage Road.
- ② Open WB Frontage Road.
- ③ Construct remaining portions of WB mainline I-10 and Ruthrauff Ramp A.

### Phase 4

- ① Shift WB I-10 traffic onto new WB mainline.
- ② Remove all temporary crossovers, temporary pavement, and reconstruct median barrier at south end of project.
- ③ Construct EB mainline curb and edges.
- ④ Complete transition median and median barrier.

### Phase 5

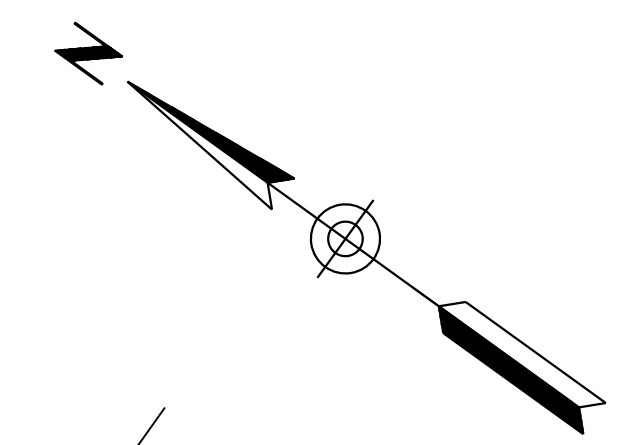
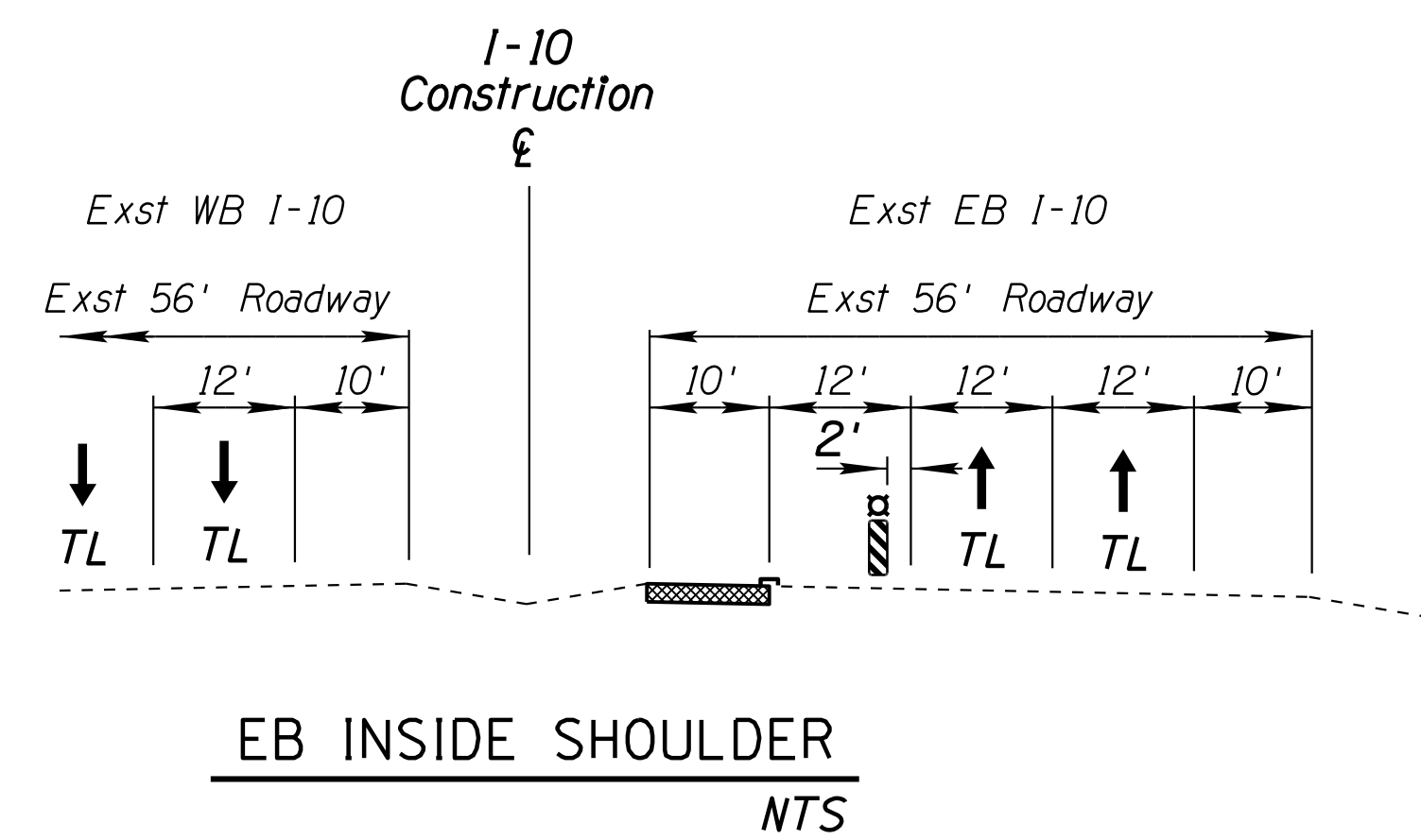
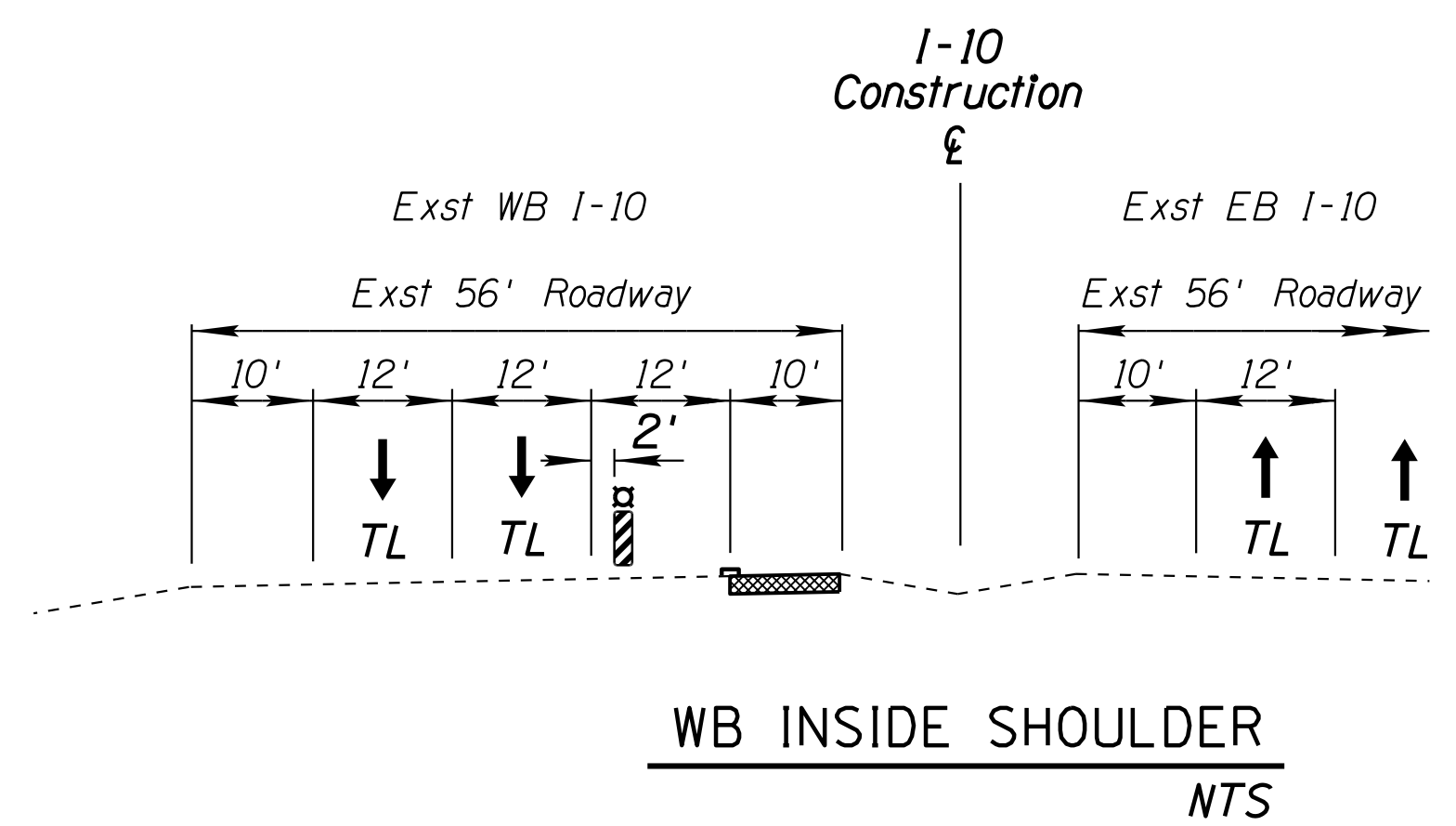
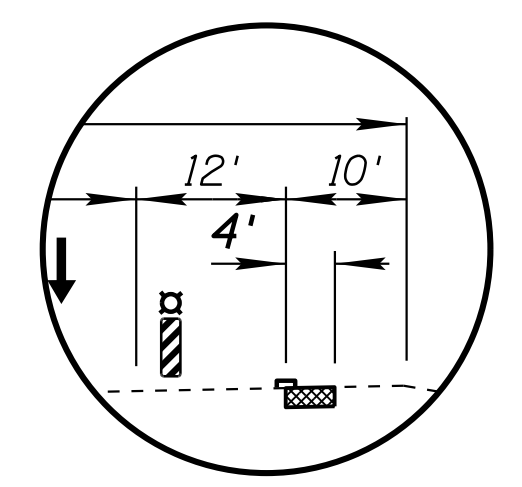
- ① Construct final ACFC overlay at north transition and place final striping.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV	JV	3-19	
CPC	CPG	3-19	
JJK	JJK	3-19	
			CONSTRUCTION SEQUENCING PHASE NOTES
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S
			EXPIRES 09/30/2019 DWG NO. T-1.01
			OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	297	849	

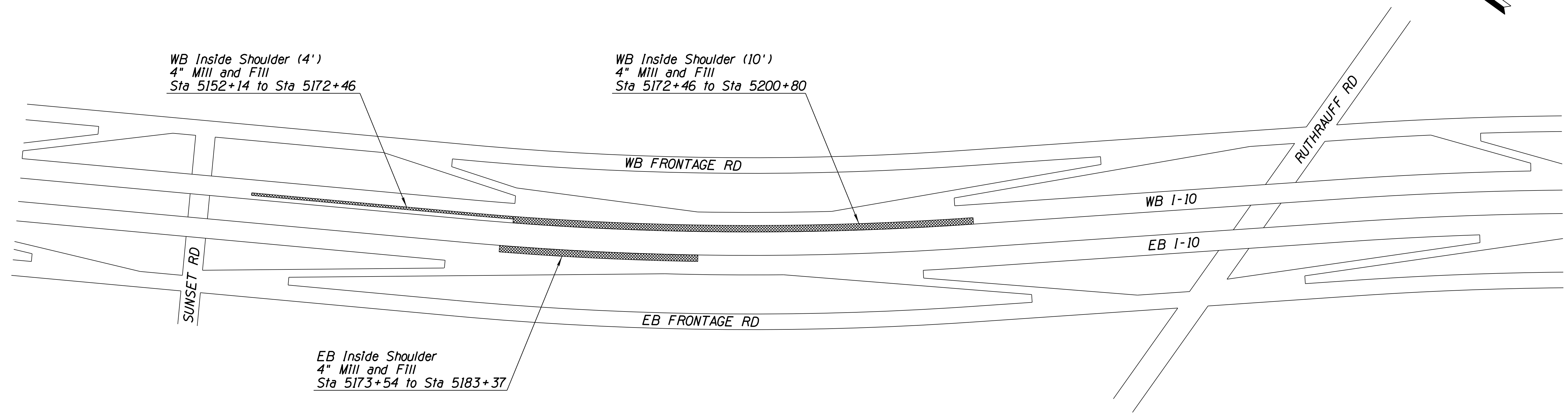
010 PM 252



WB Inside Shoulder (4')  
4" Mill and Fill  
Sta 5152+14 to Sta 5172+46

WB Inside Shoulder (10')  
4" Mill and Fill  
Sta 5172+46 to Sta 5200+80

EB Inside Shoulder  
4" Mill and Fill  
Sta 5173+54 to Sta 5183+37



**LEGEND**

- Pavement Preservation
- Travel Lane
- New Paint Stripe
- Type II Barricade or Vertical Panel

**NOTES:**

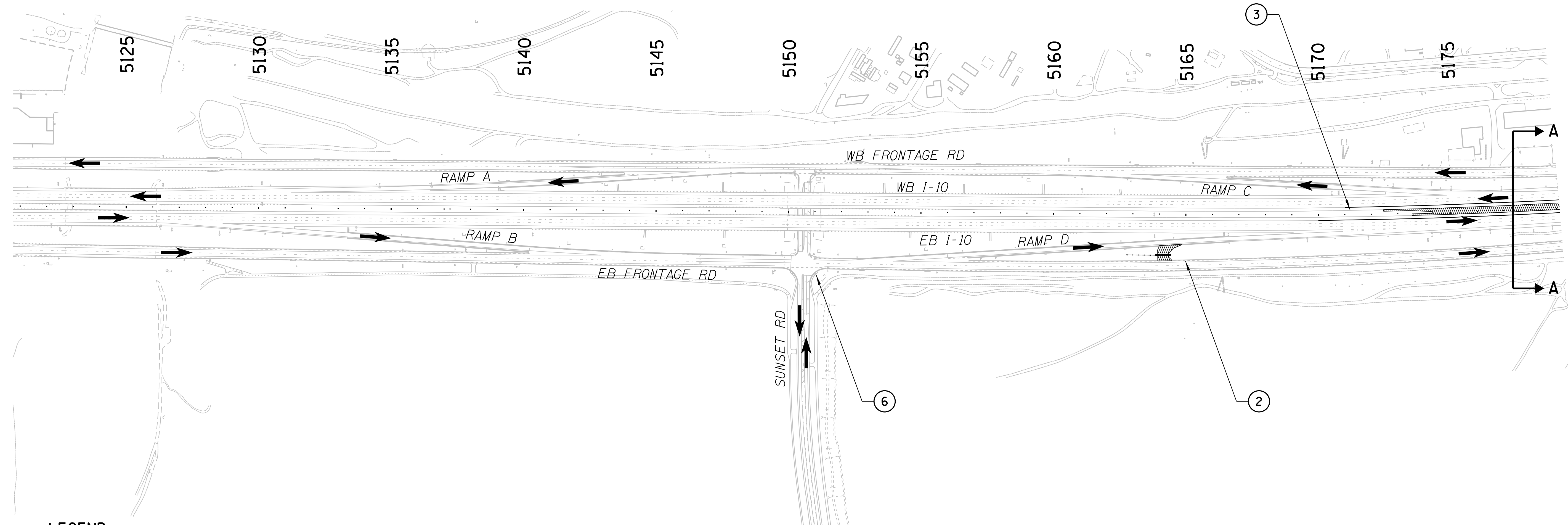
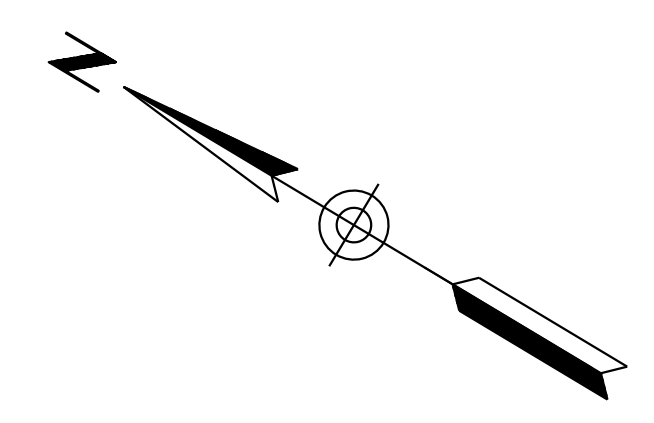
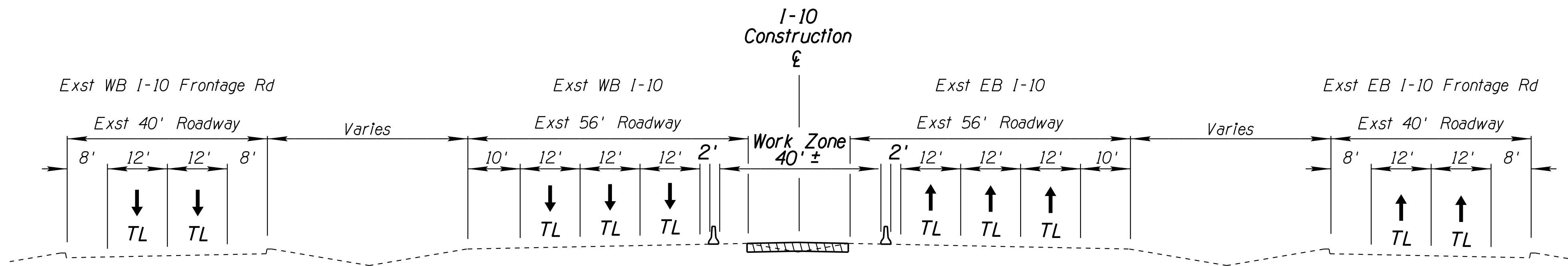
1. Work shall be conducted during nighttime hours between 8:00 PM and 5:00 AM the following morning, Sunday through Thursday nights, except on holidays or as directed by the Engineer. Work zone traffic control shall be shifted to the proper locations for the work zone planned for that night. Work zone traffic control devices shall be removed and/or relocated prior to daytime hours.
2. Maintain at least 2' shoulders on each side of the traveled way at all times throughout the project limits.
3. For each stage, Type II barricades shall be set for traffic control for the Contractors planned night's construction. The Engineer shall approve each night's production based on anticipated production rates.
4. See Traffic Control Plan Detail Sheets for lane closures.
5. Pavement preservation may be completed in any sequence and should be complete prior to construction of temporary crossovers.
6. Contractor to replace existing edge line pavement markings upon completion of night's construction.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CONSTRUCTION SEQUENCE PHASE 1A PAVEMENT PRESERVATION	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.02 OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	298	849	

010 PM 252



**LEGEND**

- Phase IA Work Zone
- Phase IA Temporary Construction
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

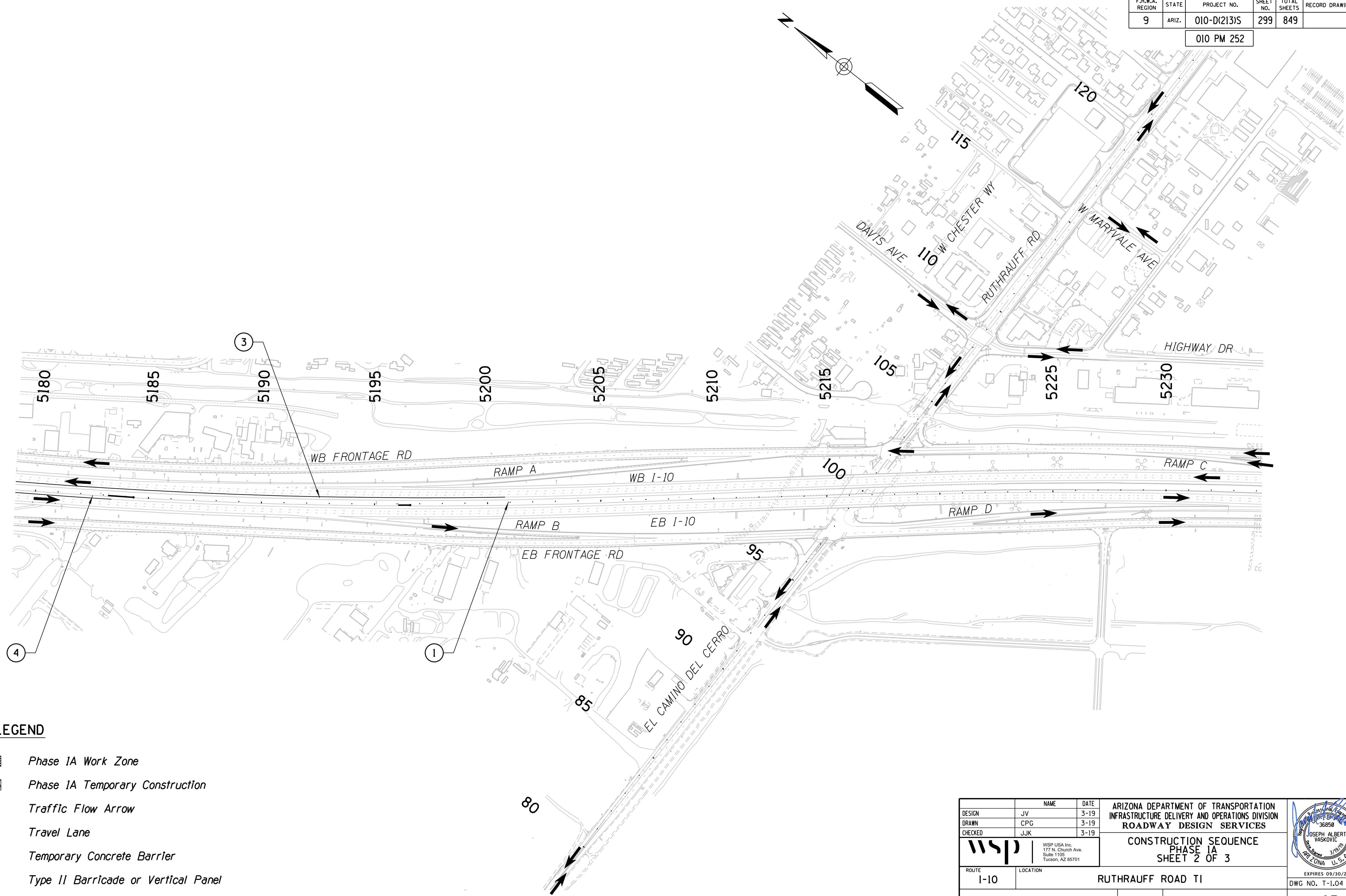
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 1A</b> <b>SHEET 1 OF 3</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-1.03 OF	

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


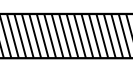
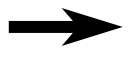



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	299	849	

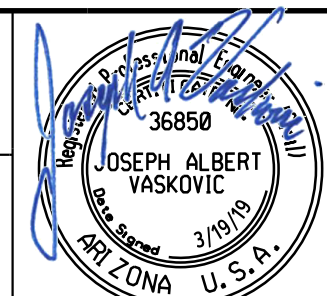

010 PM 252

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



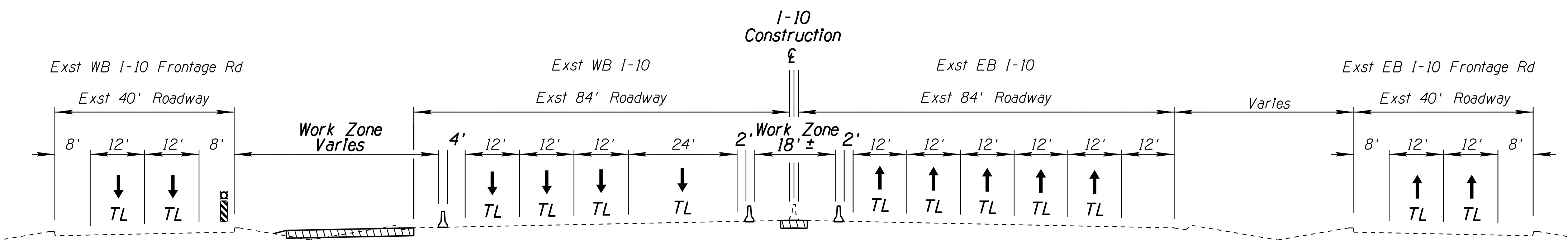
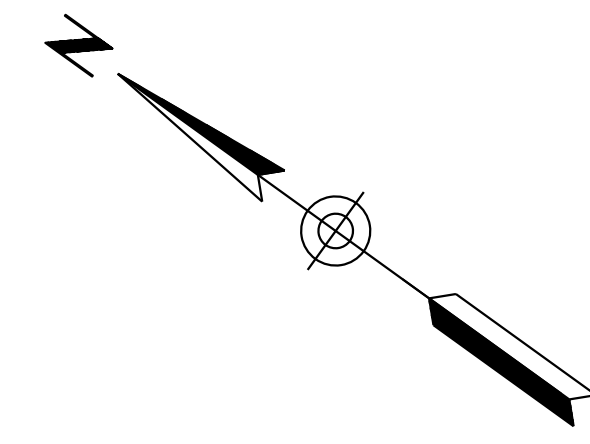
**LEGEND**

-  Phase 1A Work Zone
-  Phase 1A Temporary Construction
-  Traffic Flow Arrow
-  Travel Lane
-  Temporary Concrete Barrier
-  Type II Barricade or Vertical Panel

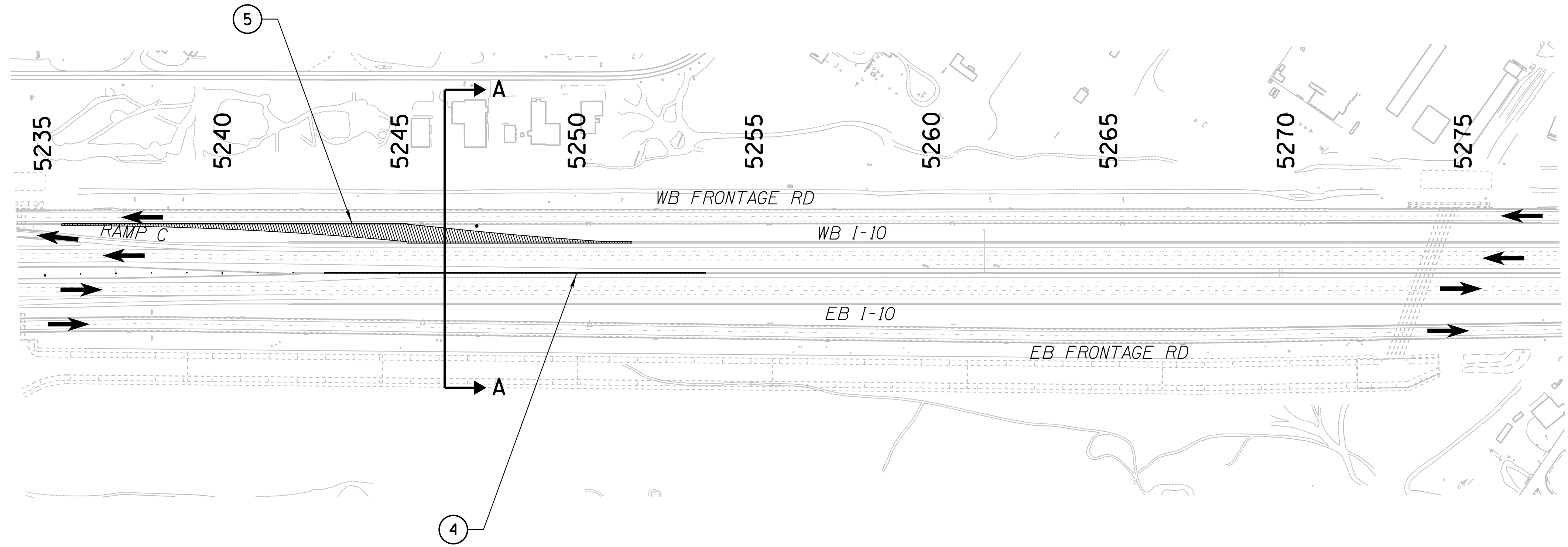
<b>DESIGN</b>	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
<b>DRAWN</b>	CPG	DATE	3-19		
<b>CHECKED</b>	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 1A</b> <b>SHEET 2 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					DWG NO. T-1.04
					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	300	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

- Phase IA Work Zone
- Phase IA Temporary Construction
- Traffic Flow Arrow
- TL* Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

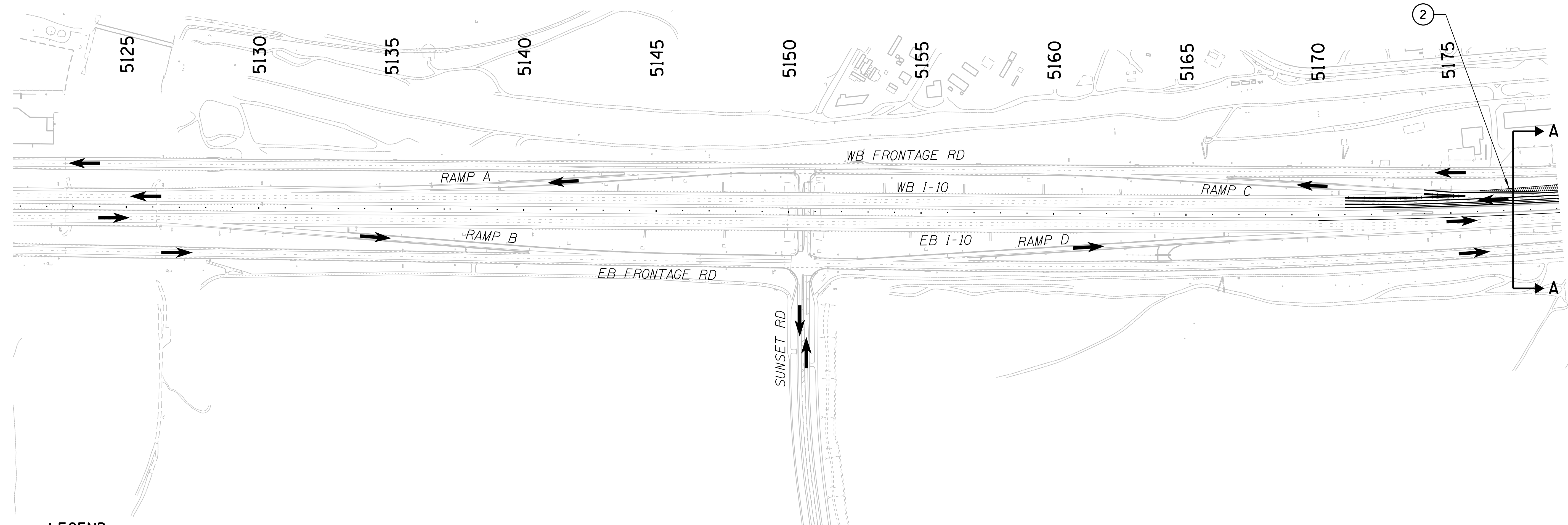
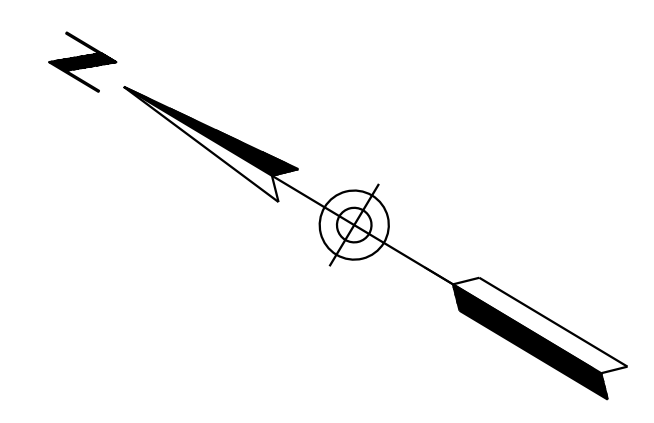
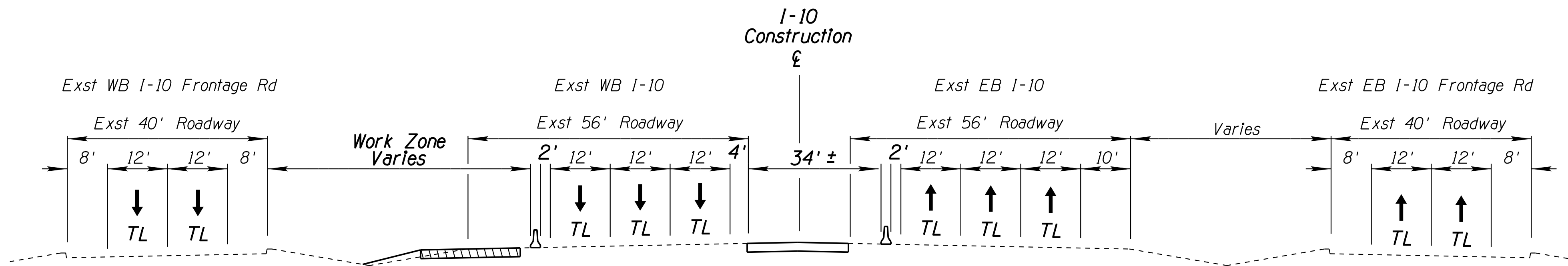
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
<p><b>CONSTRUCTION SEQUENCE</b> PHASE 1A SHEET 3 OF 3</p>				
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC		010-D(213)S	OF

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	301	849	

010 PM 252



**LEGEND**

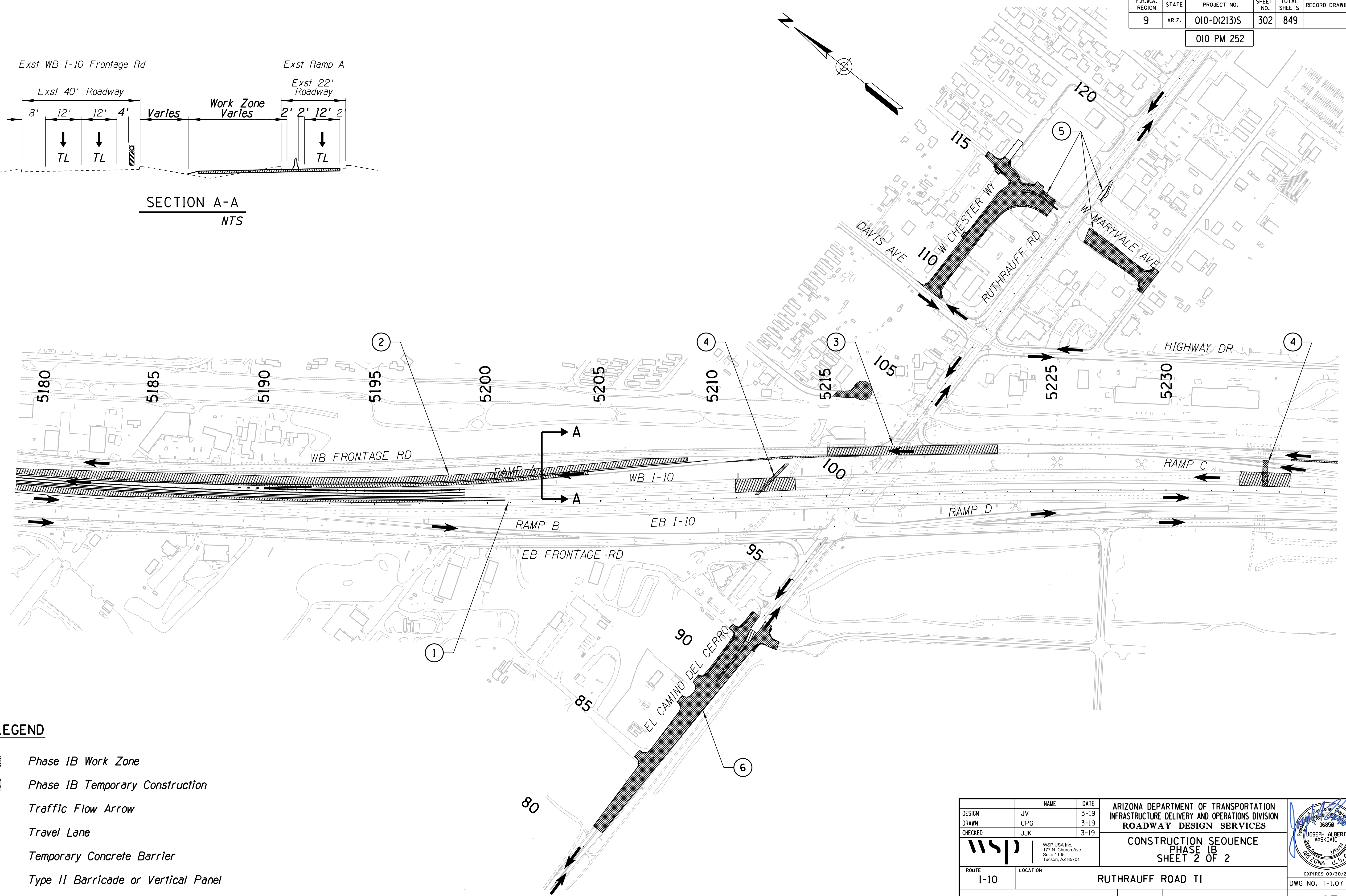
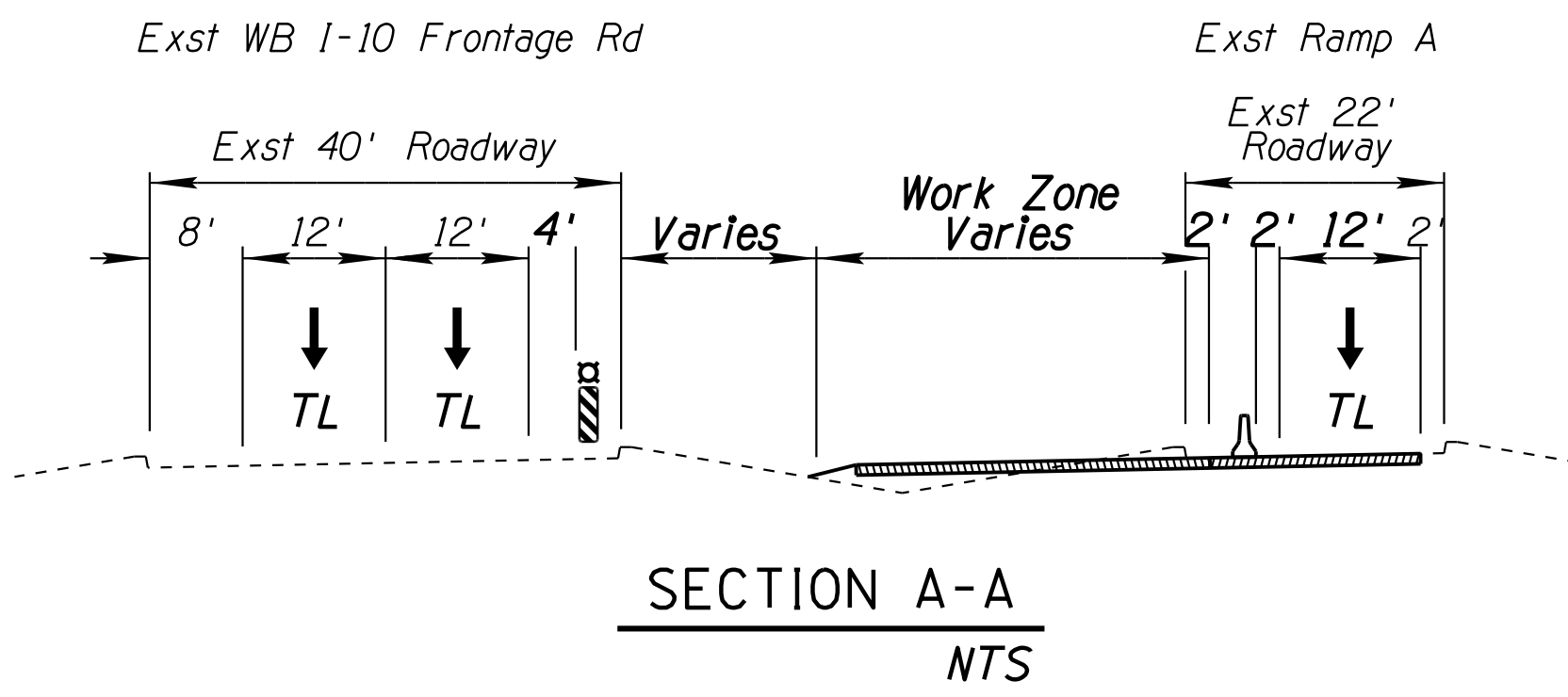
- Phase 1B Work Zone
- Phase 1B Temporary Construction
- Traffic Flow Arrow
- TL* Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 1B</b> <b>SHEET 1 OF 2</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.06 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	302	849	

010 PM 252



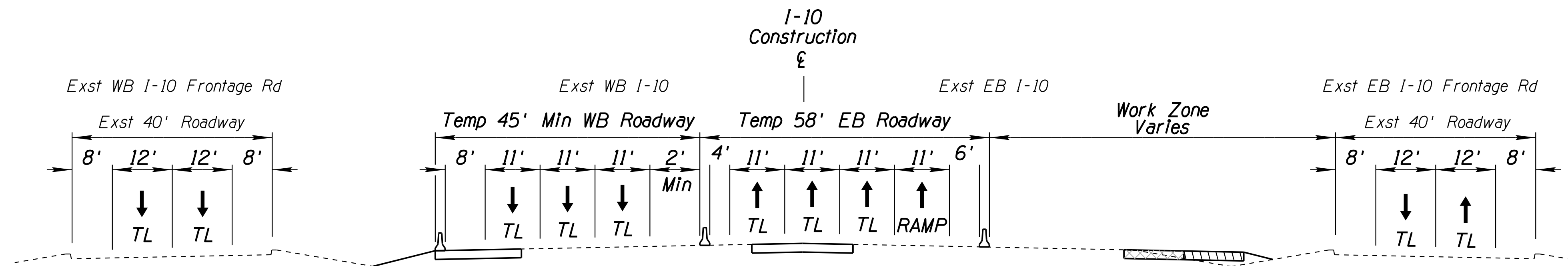
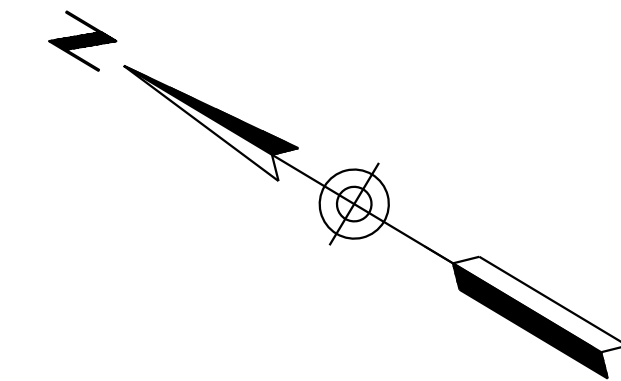
- LEGEND**
- Phase 1B Work Zone
  - Phase 1B Temporary Construction
  - Traffic Flow Arrow
  - TL* Travel Lane
  - Temporary Concrete Barrier
  - Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 1B</b> <b>SHEET 2 OF 2</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.07 OF

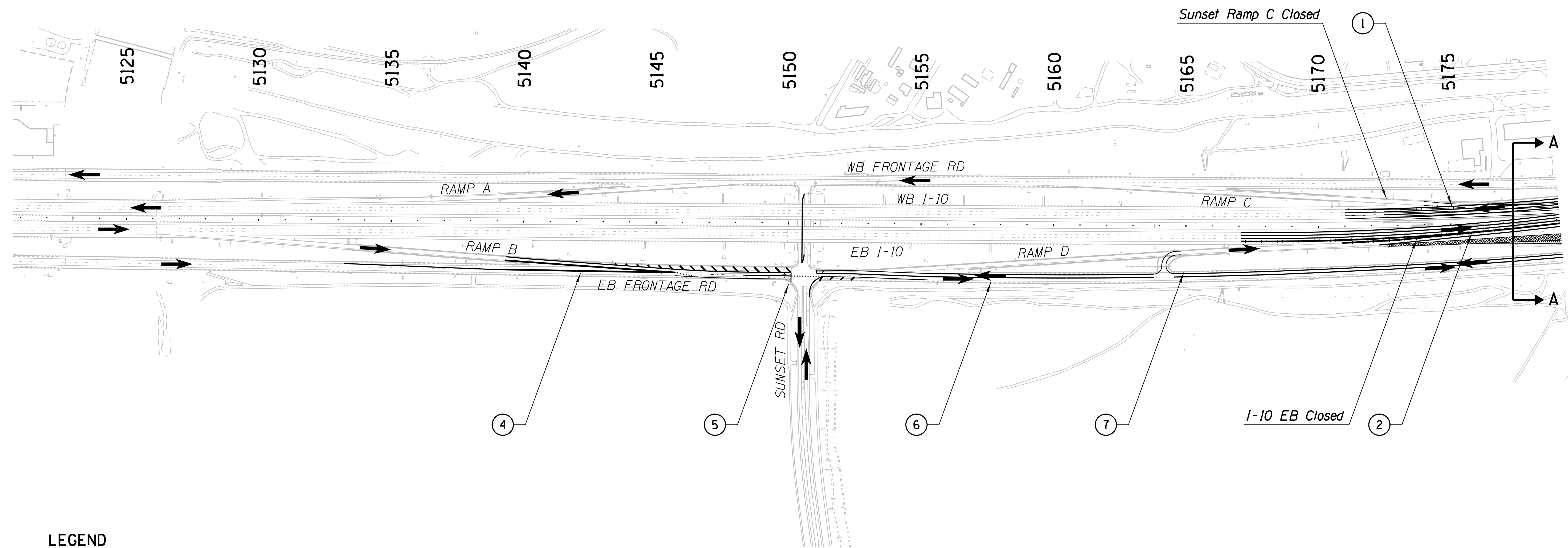
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	303	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

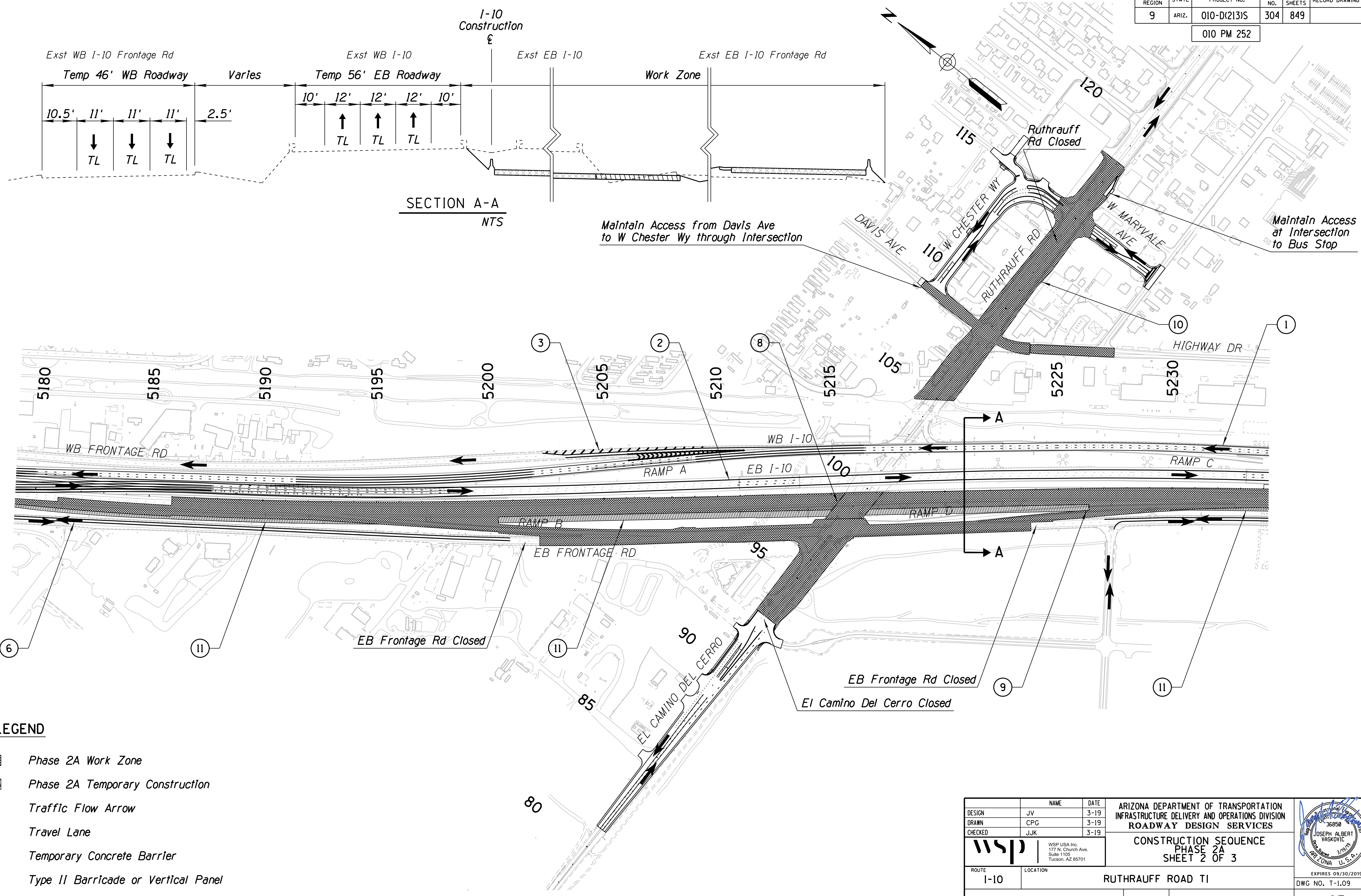
- Phase 2A Work Zone
- Phase 2A Temporary Construction
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 2A</b> <b>SHEET 1 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.08 OF

DATE LOCATION REVISIONS SURVEY NO. DATE LOCATION REVISIONS SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	304	849	

010 PM 252



SECTION A-A  
NTS

Maintain Access from Davis Ave to W Chester Wy through Intersection

Maintain Access at Intersection to Bus Stop

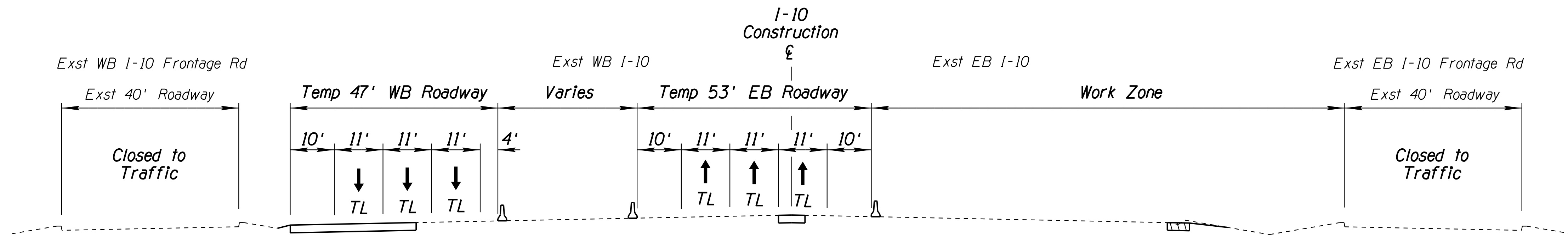
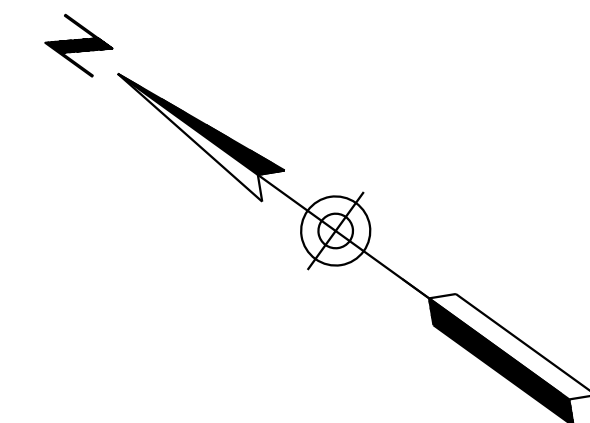
- LEGEND**
- Phase 2A Work Zone
  - Phase 2A Temporary Construction
  - Traffic Flow Arrow
  - Travel Lane
  - Temporary Concrete Barrier
  - Type II Barricade or Vertical Panel

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	JV	3-19	
CHECKED	CPG	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 2A</b> <b>SHEET 2 OF 3</b>
ROUTE	LOCATION	DATE	
I-10	RUTHRAUFF ROAD TI	3-19	
TRACS NO. H 8480 OIC			010-D(213)S
			EXP. 09/30/2019 DWG NO. T-1.09 OF

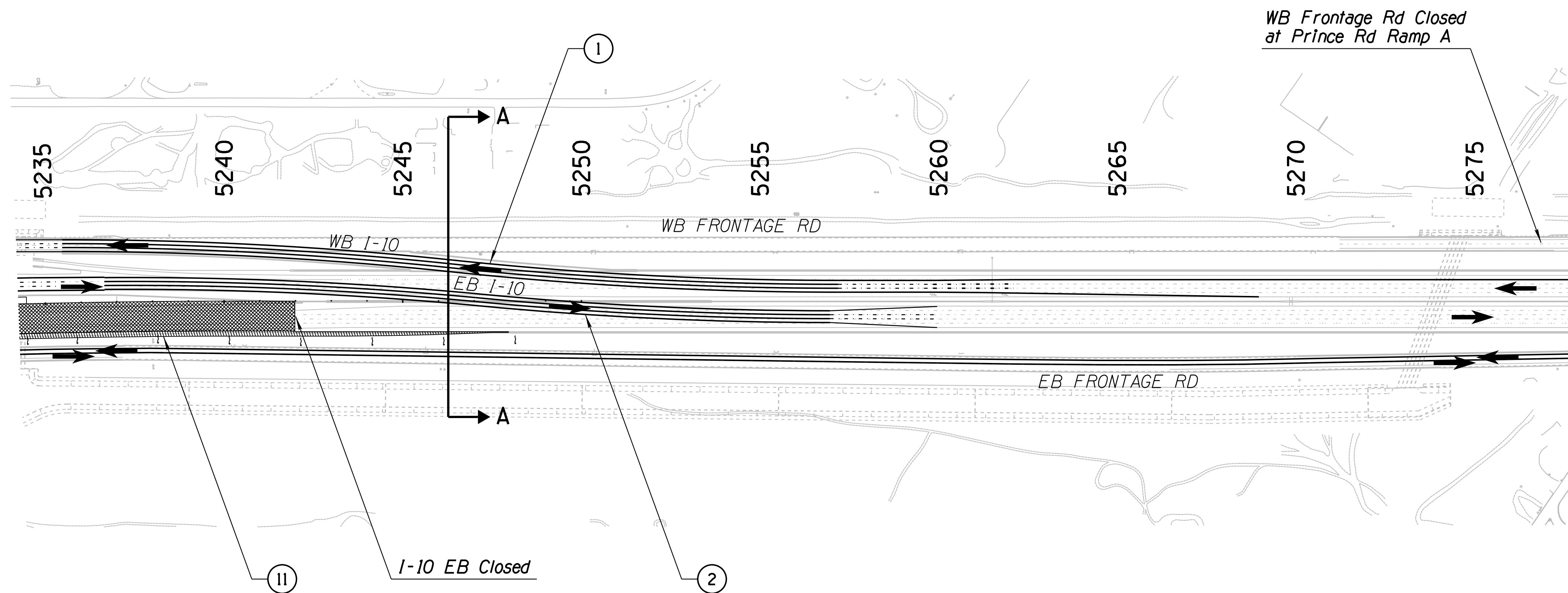
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	305	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

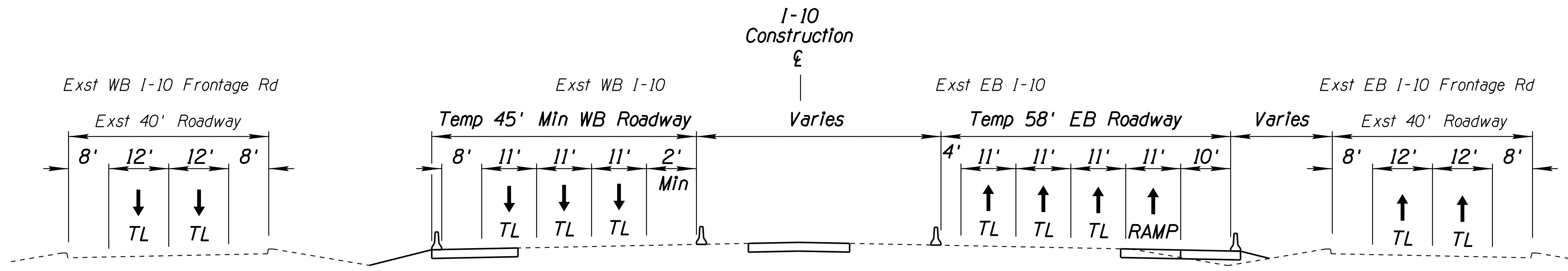
- Phase 2A Work Zone
- Phase 2A Temporary Construction
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
CONSTRUCTION SEQUENCE PHASE 2A SHEET 3 OF 3				
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC		010-D(213)S	OF

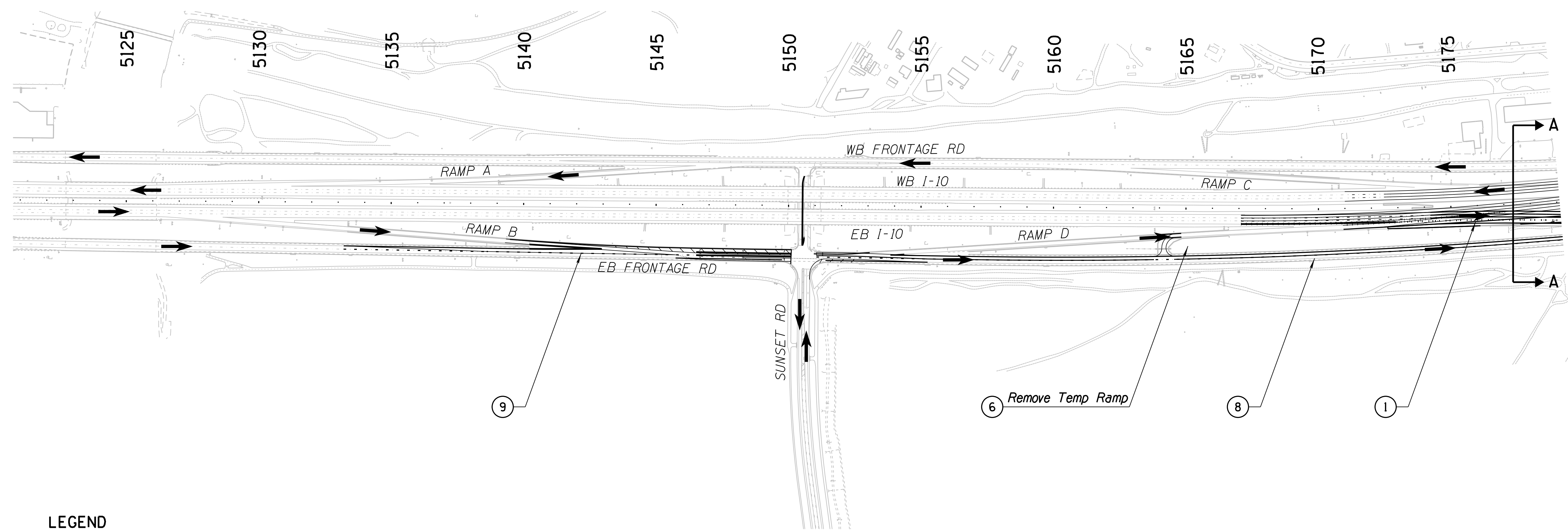
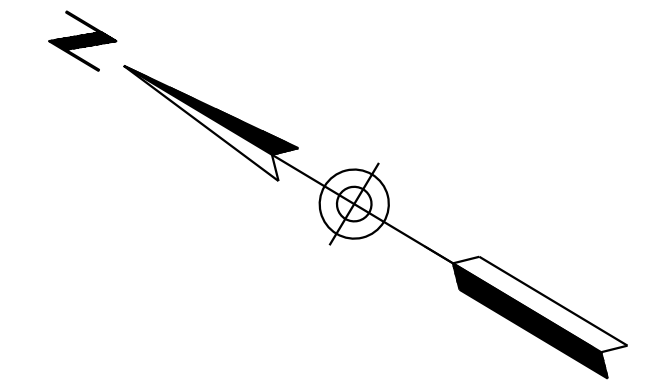
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	306	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

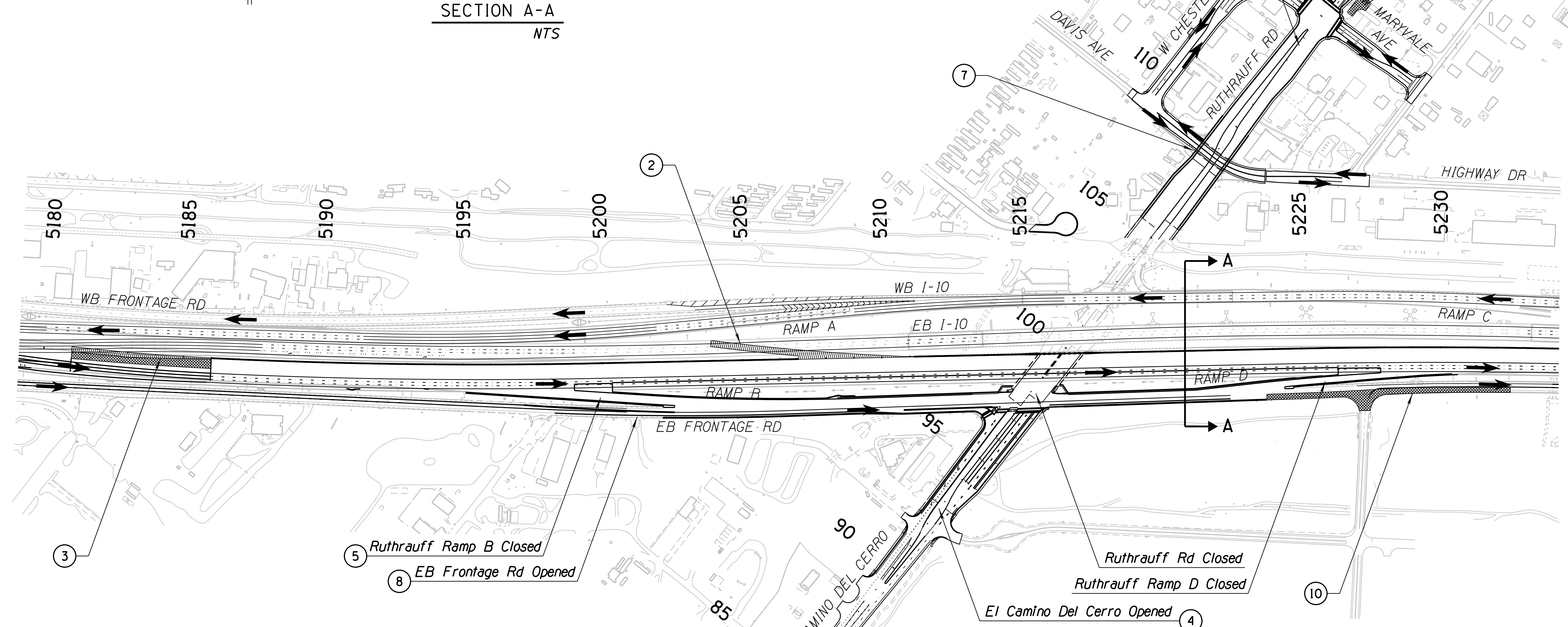
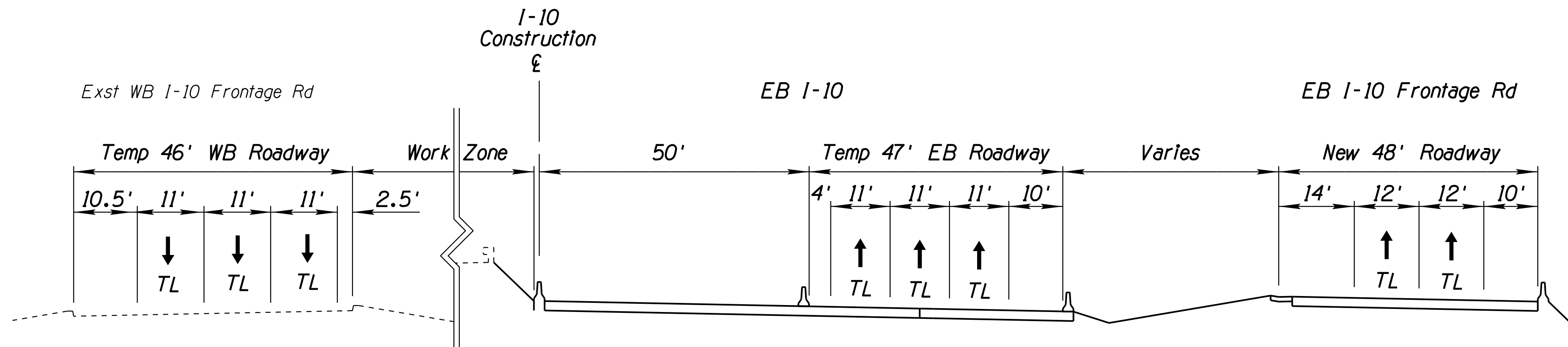
- Phase 2B Work Zone
- Phase 2B Temporary Construction
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 2B</b> <b>SHEET 1 OF 3</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.11 OF

DATE LOCATION REVISIONS SURVEY NO. DATE LOCATION REVISIONS SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	307	849	

010 PM 252



**LEGEND**

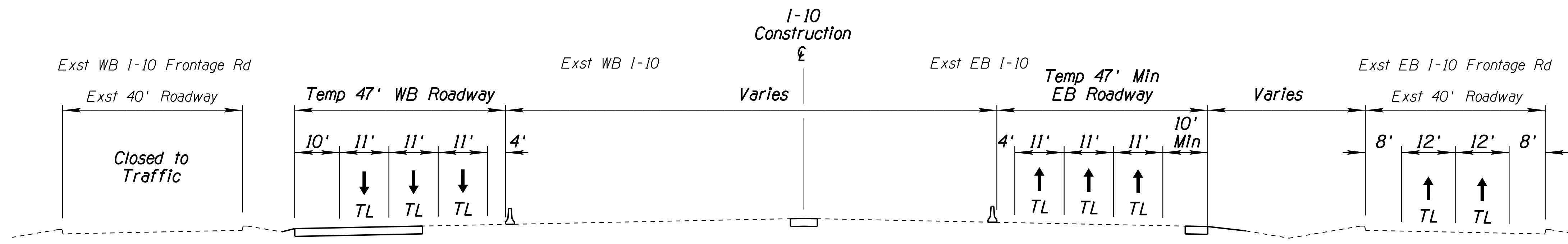
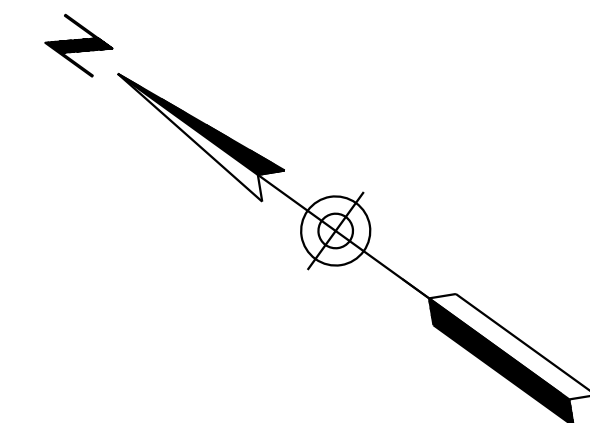
- Phase 2B Work Zone
- Phase 2B Temporary Construction
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 2B</b> <b>SHEET 2 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.12 OF

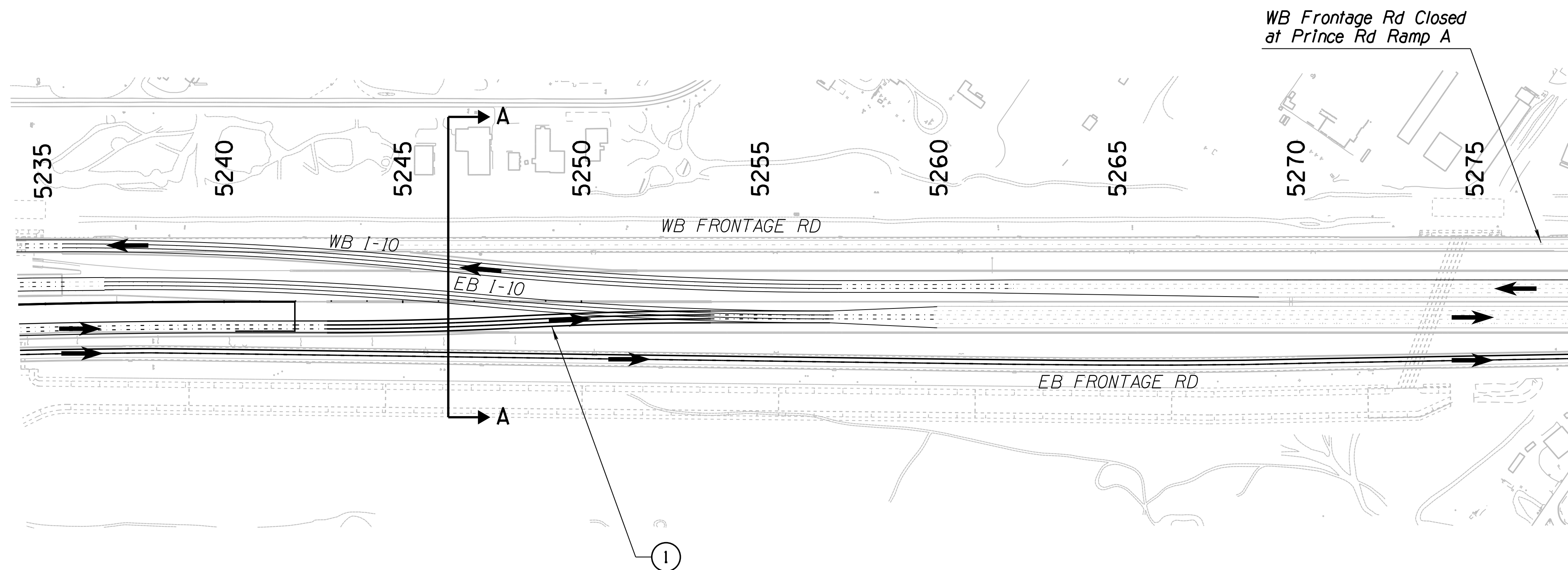
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	308	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

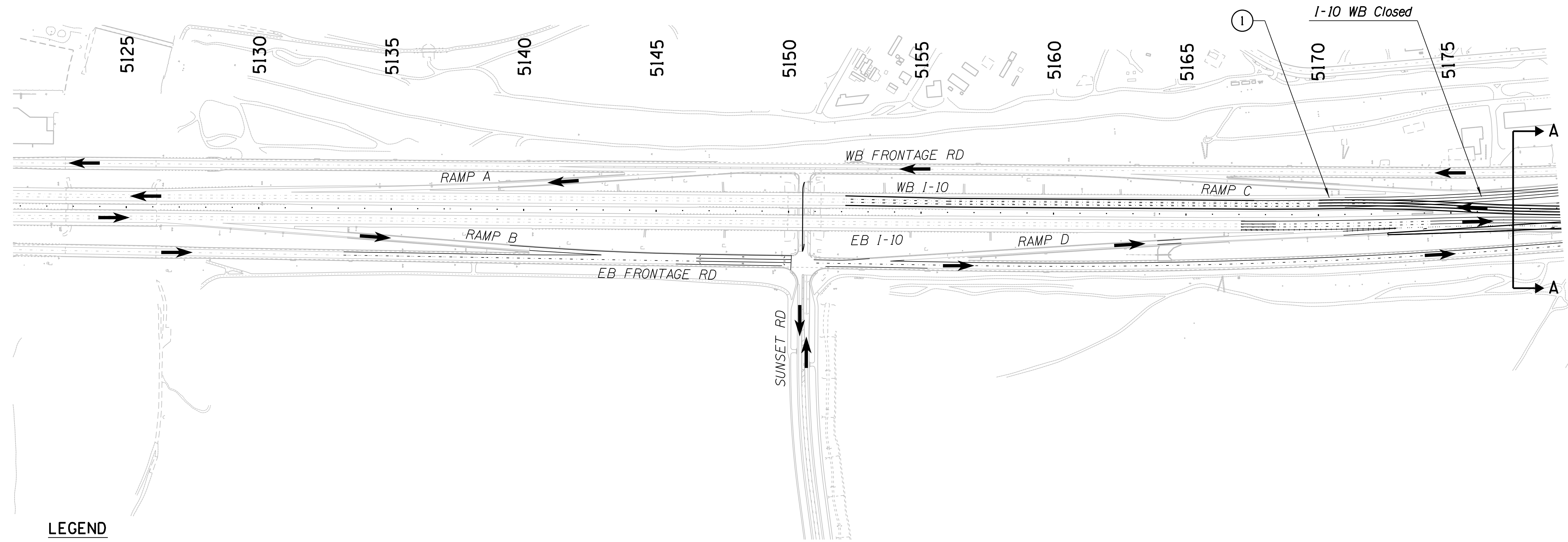
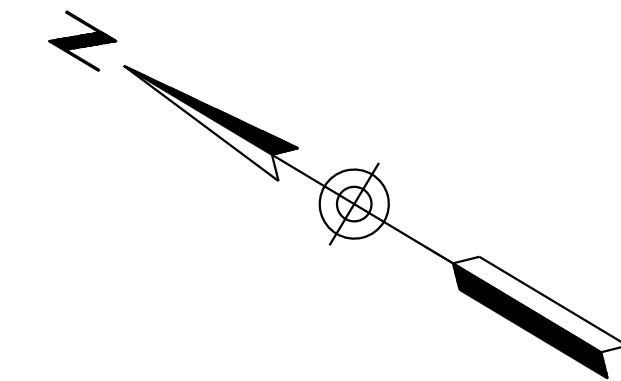
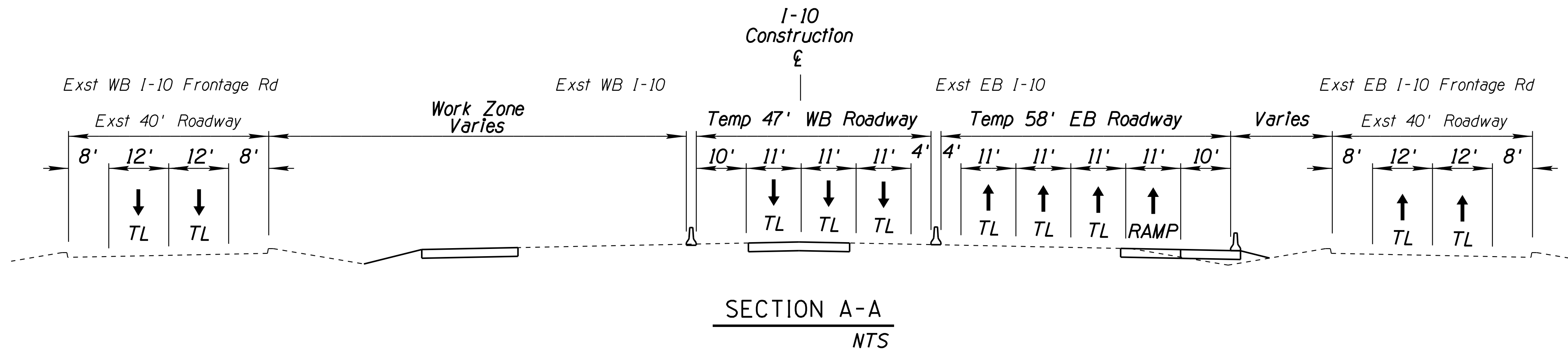
- Phase 2B Work Zone
- Phase 2B Temporary Construction
- Traffic Flow Arrow
- TL* Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 2B</b> <b>SHEET 3 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	309	849	

010 PM 252



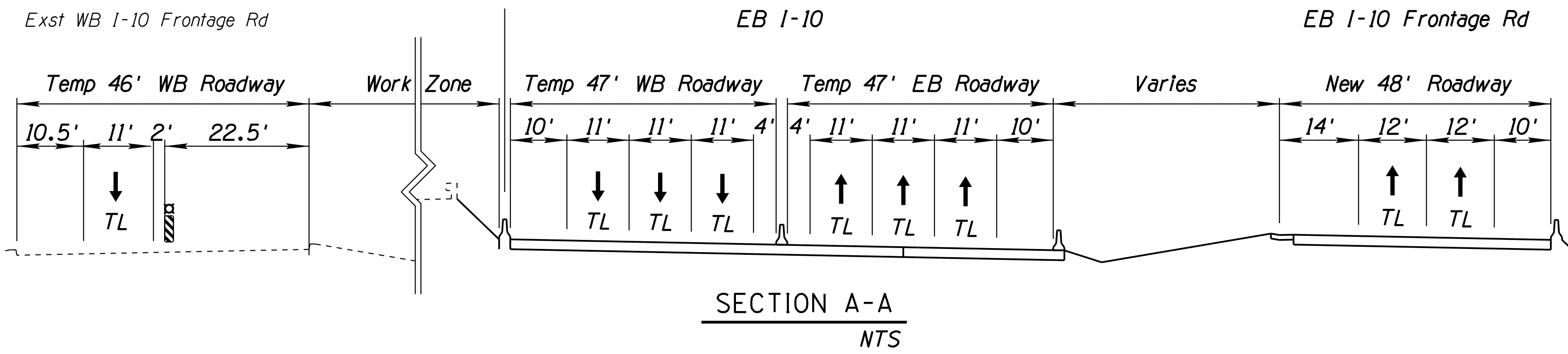
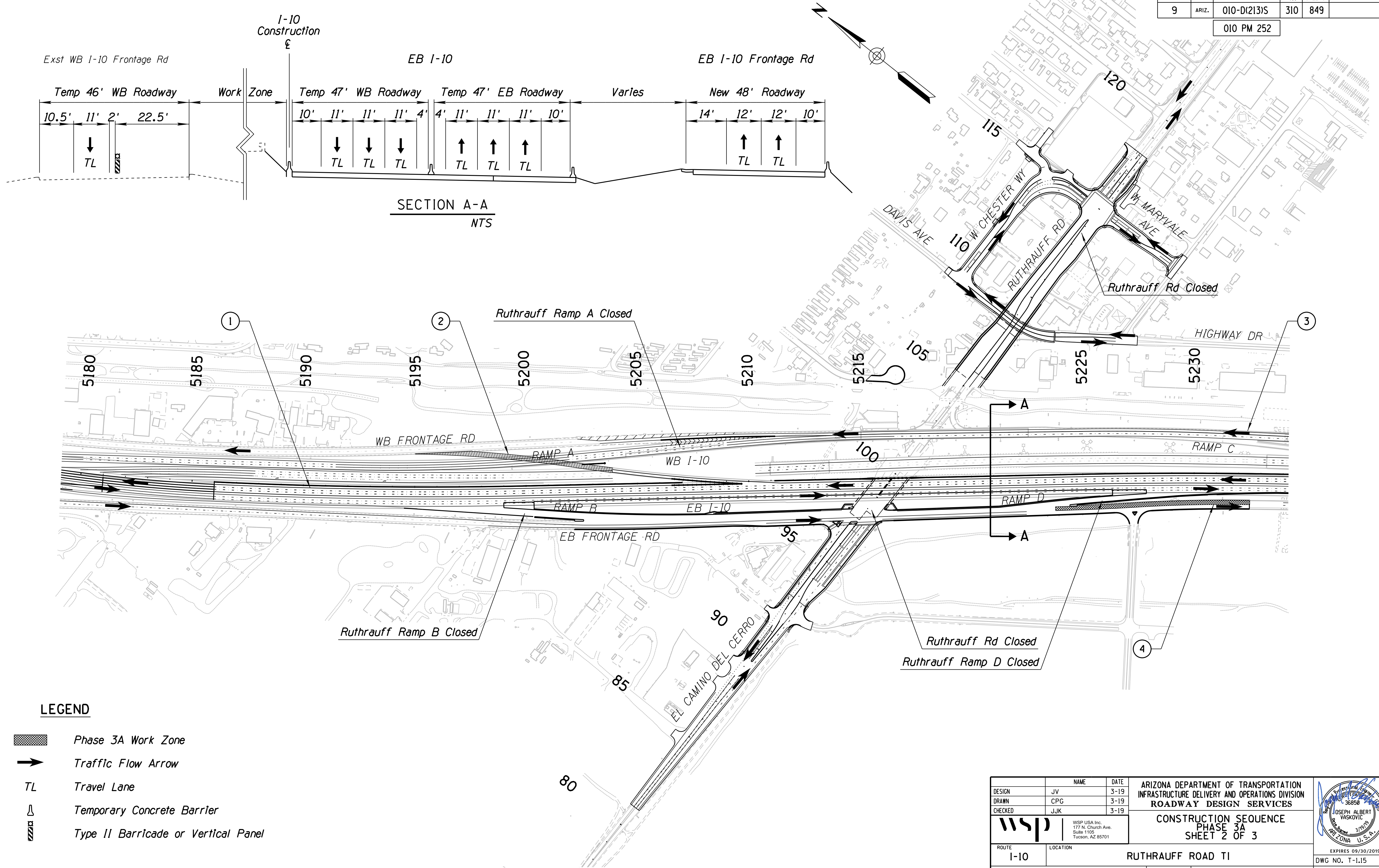
**LEGEND**

- Phase 3A Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> PHASE 3A SHEET 1 OF 3	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	310	849	

010 PM 252

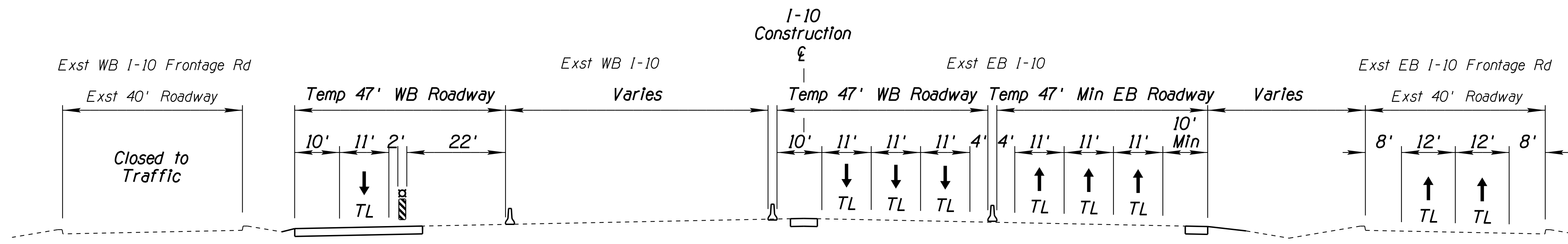
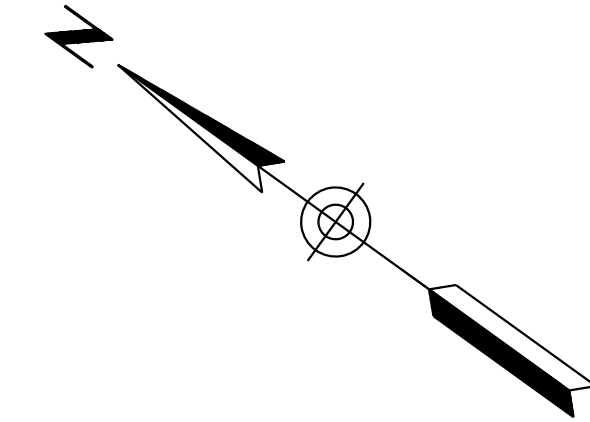


- LEGEND**
- Phase 3A Work Zone
  - Traffic Flow Arrow
  - Travel Lane
  - Temporary Concrete Barrier
  - Type II Barricade or Vertical Panel

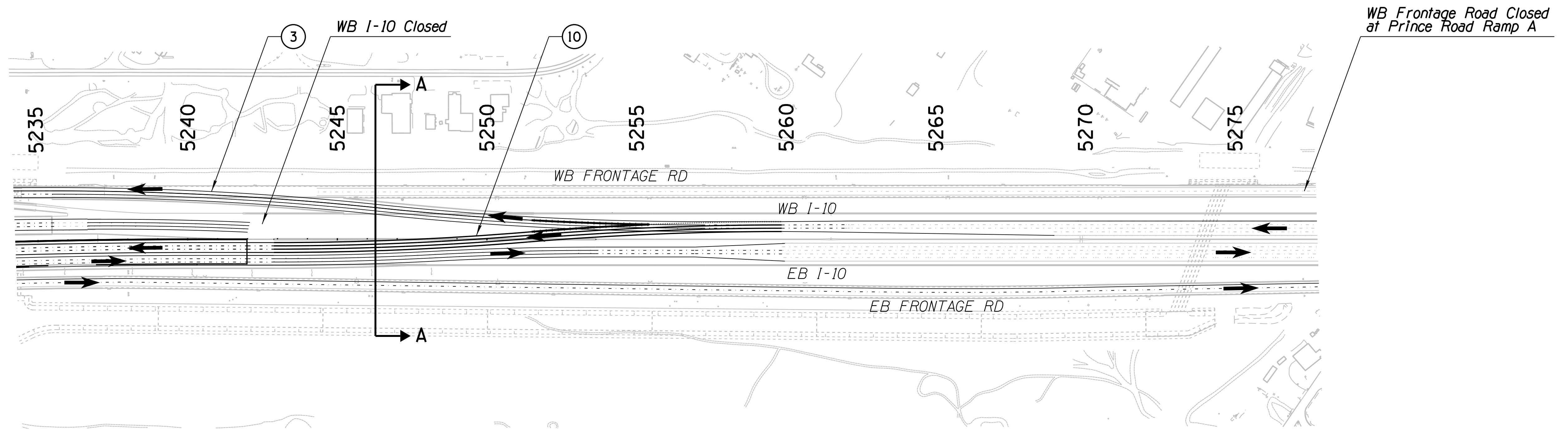
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
CHECKED	JJK	3-19	
			<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 3A</b> <b>SHEET 2 OF 3</b>
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S
			EXPIRES 09/30/2019 DWG NO. T-1.15
			OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	311	849	

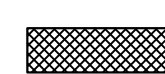
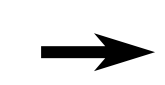



010 PM 252




SECTION A-A  
NTS



**LEGEND**

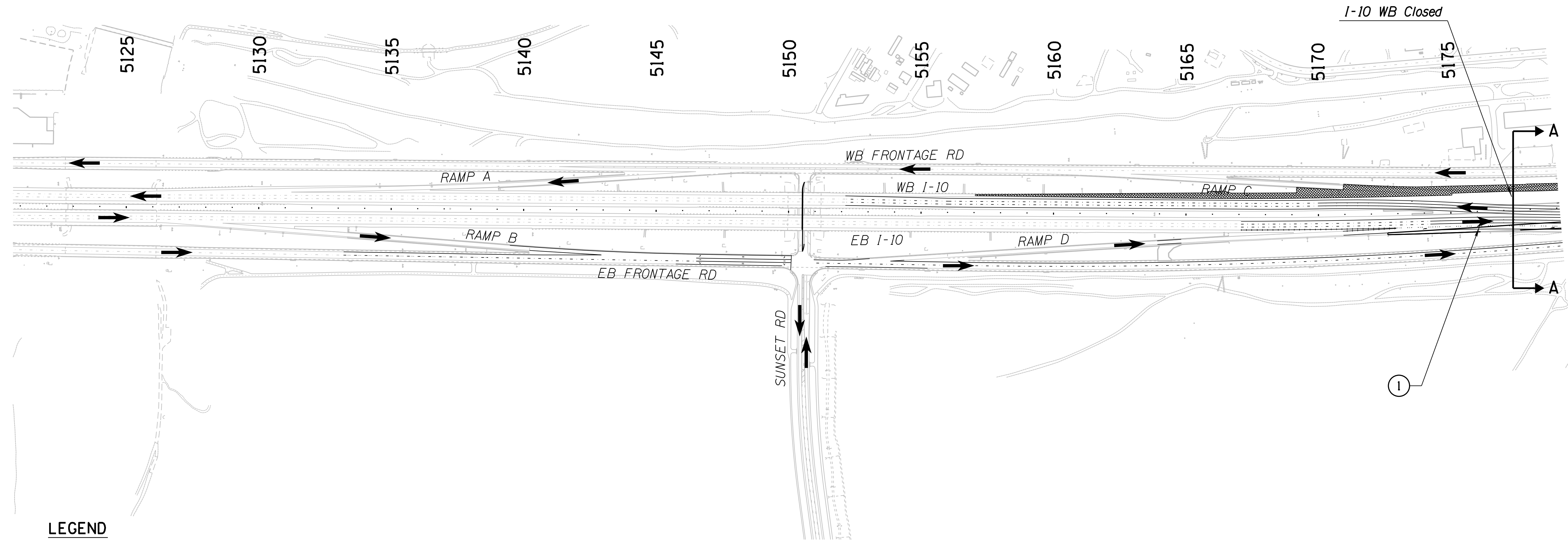
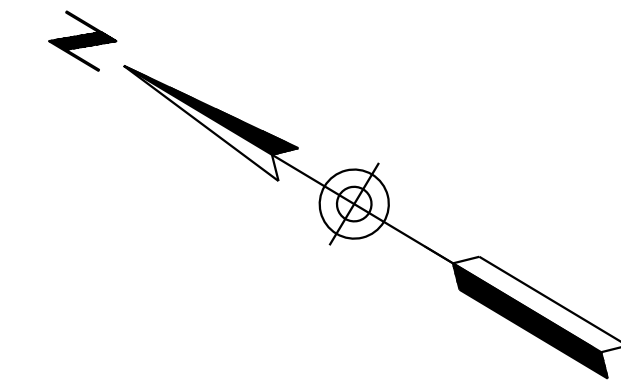
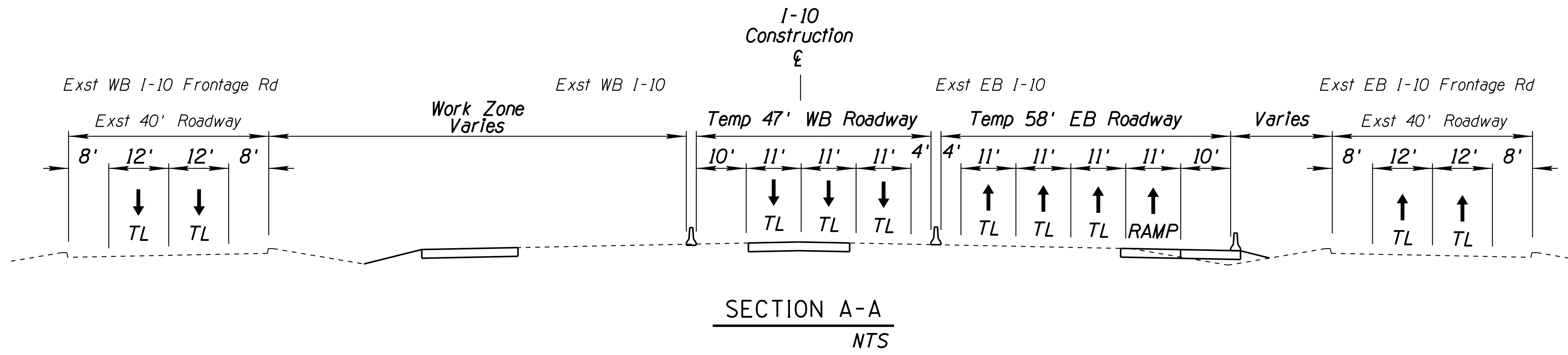
-  Phase 3A Work Zone
-  Traffic Flow Arrow
-  Travel Lane
-  Temporary Concrete Barrier
-  Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CONSTRUCTION SEQUENCE PHASE 3A SHEET 3 OF 3
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC		010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-1.16 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	312	849	

010 PM 252



**LEGEND**

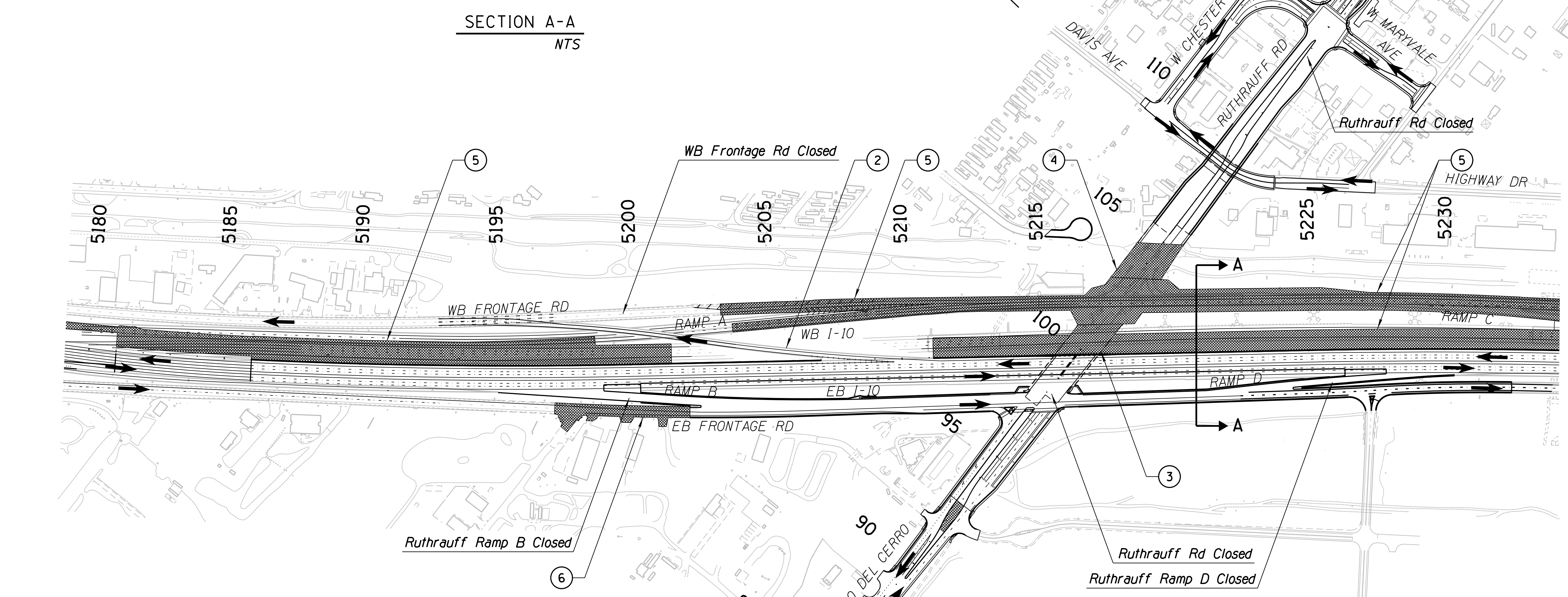
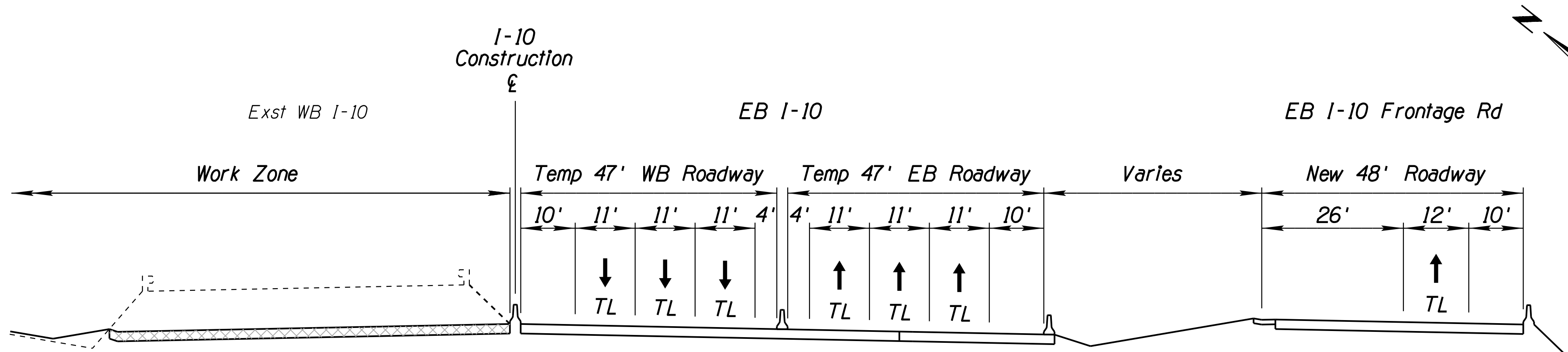
- Phase 3B Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CONSTRUCTION SEQUENCE PHASE 3B SHEET 1 OF 3	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.17 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-D(213)S	313	849	

010 PM 252



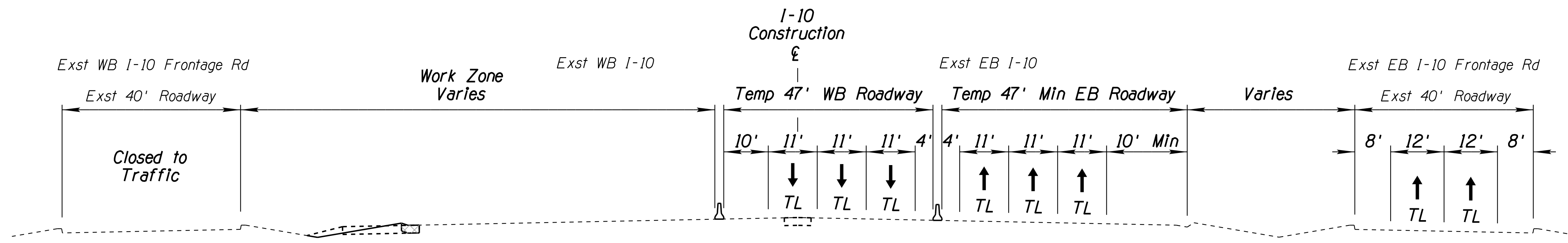
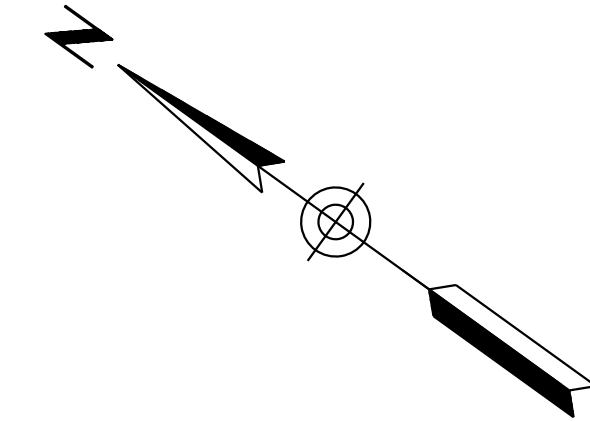
**LEGEND**

- Phase 3B Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

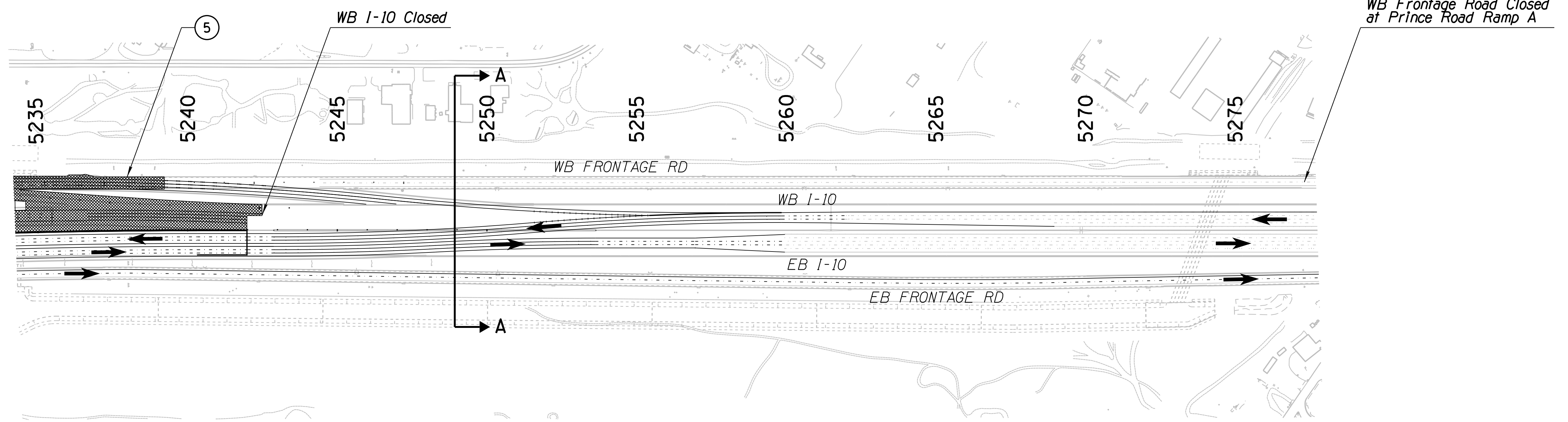
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
CHECKED	JJK	3-19	<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 3B</b> <b>SHEET 2 OF 3</b>
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S	
			EXPIRES 09/30/2019 DWG NO. T-1.18

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	314	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

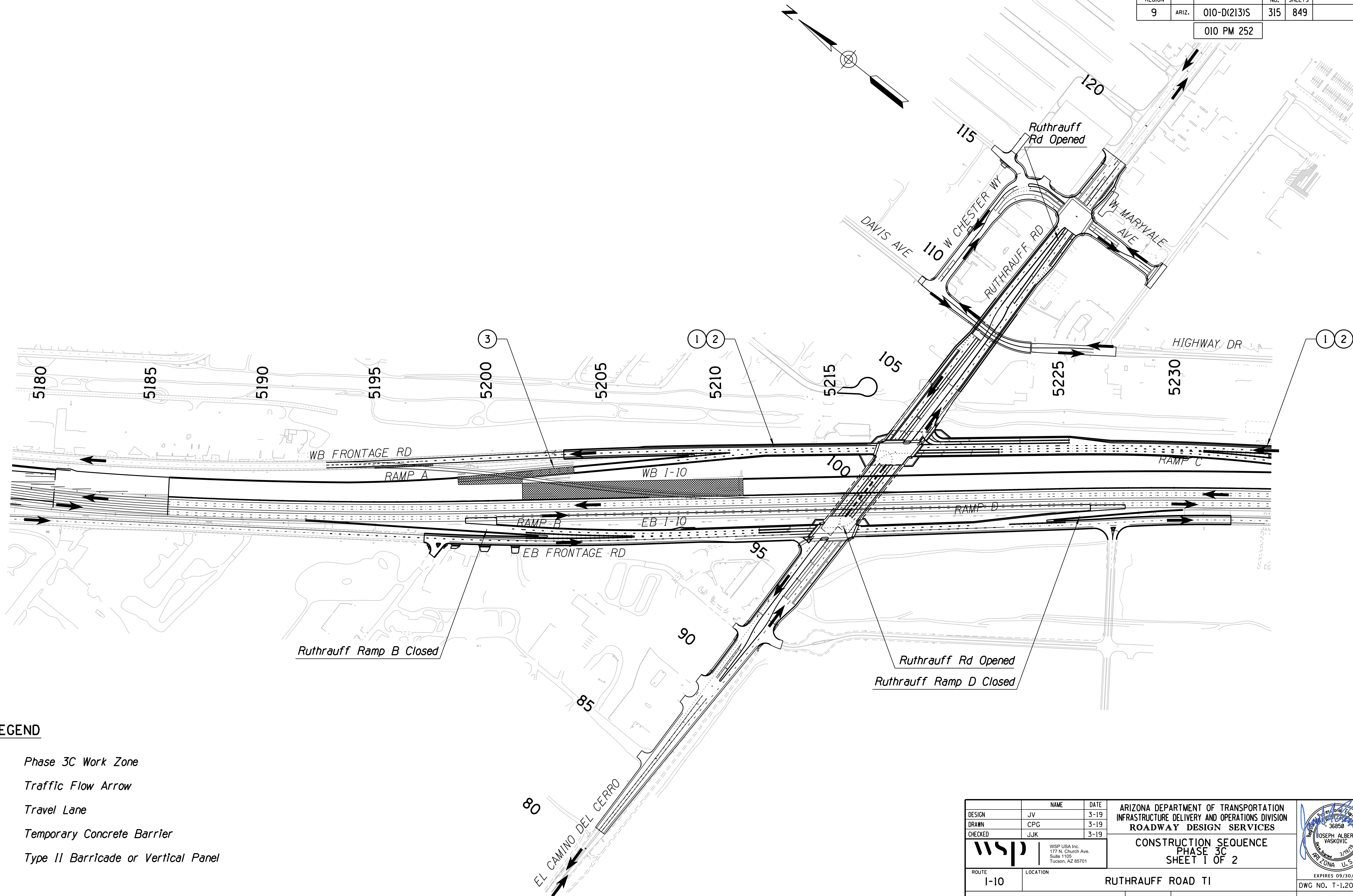
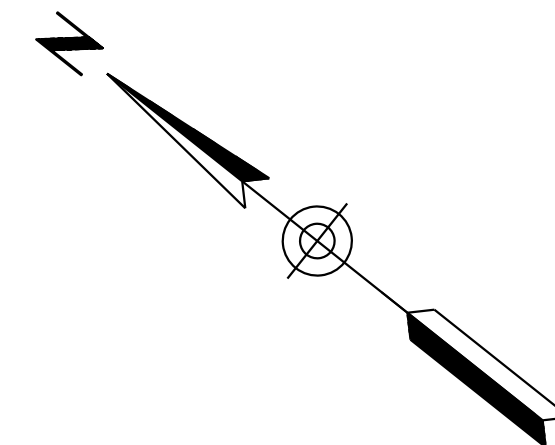
- Phase 3B Work Zone
- Traffic Flow Arrow
- TL* Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 3B</b> <b>SHEET 3 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	






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

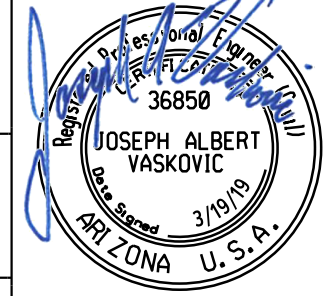

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	315	849	

010 PM 252



**LEGEND**

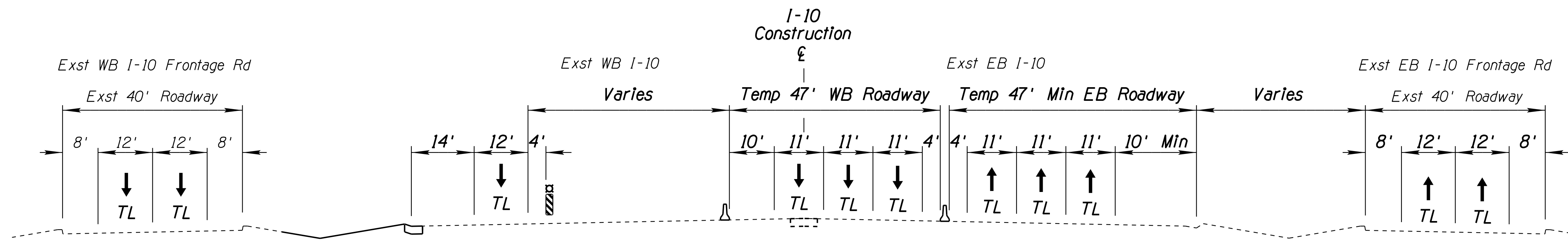
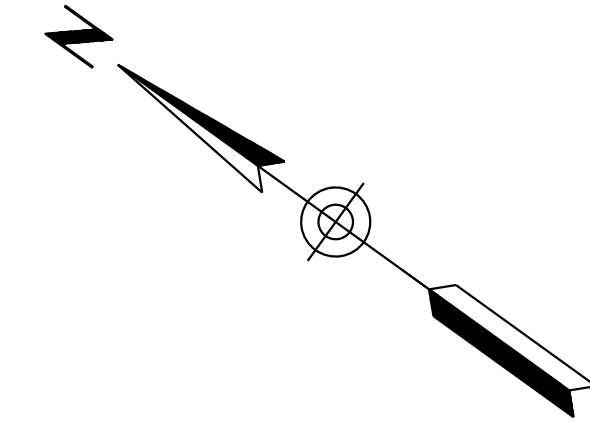
-  Phase 3C Work Zone
-  Traffic Flow Arrow
-  Travel Lane
-  Temporary Concrete Barrier
-  Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 3C</b> <b>SHEET 1 OF 2</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C		010-D(213)S		DWG NO. T-1.20 OF	

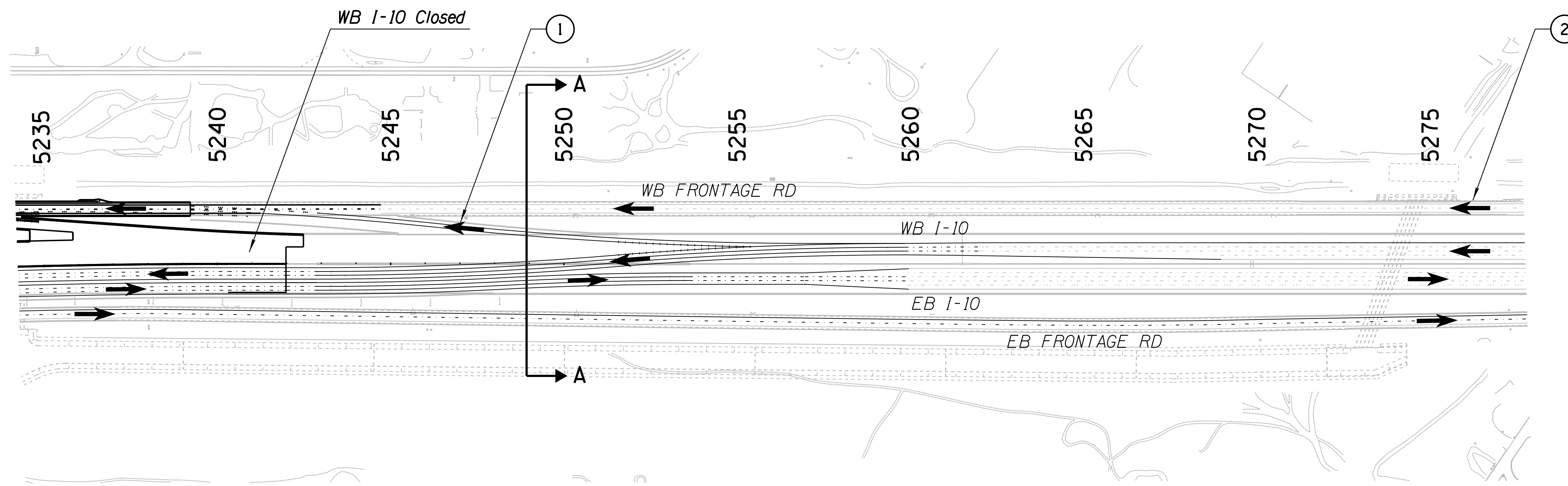
SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	316	849	

010 PM 252



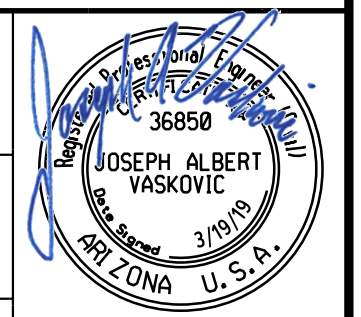
SECTION A-A  
NTS



**LEGEND**

- Phase 3C Work Zone
- Traffic Flow Arrow
- TL* Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> PHASE 3C SHEET 2 OF 2
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S	DWG NO. T-1.21 <i>OF</i>

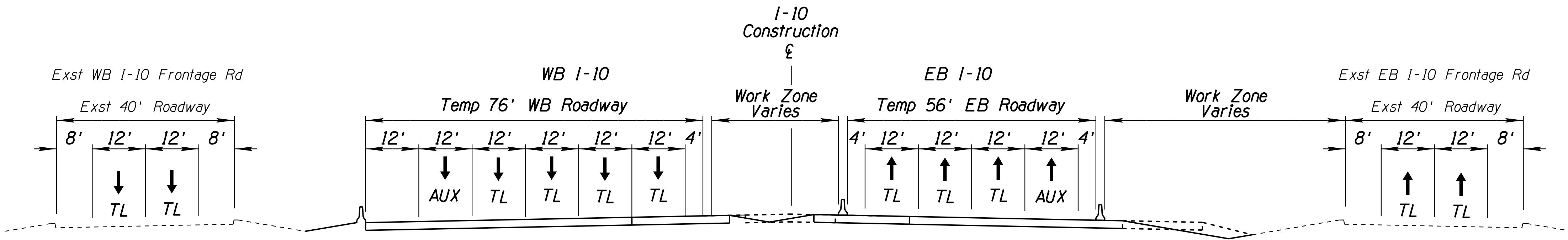
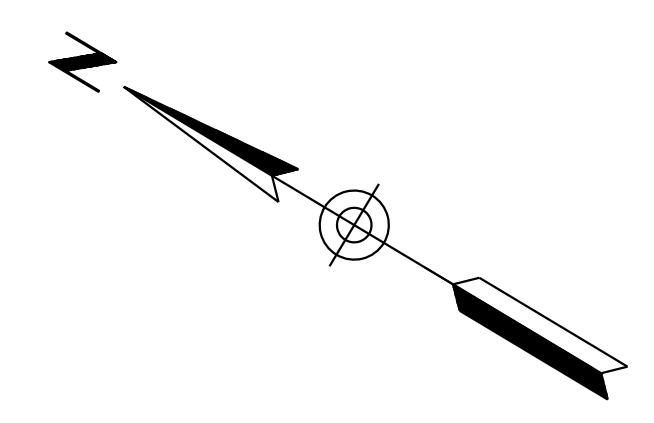


DATE LOCATION REVISIONS FINISHED PLANS SURVEY NO. DATE LOCATION REVISIONS FINISHED PLANS SURVEY NO.

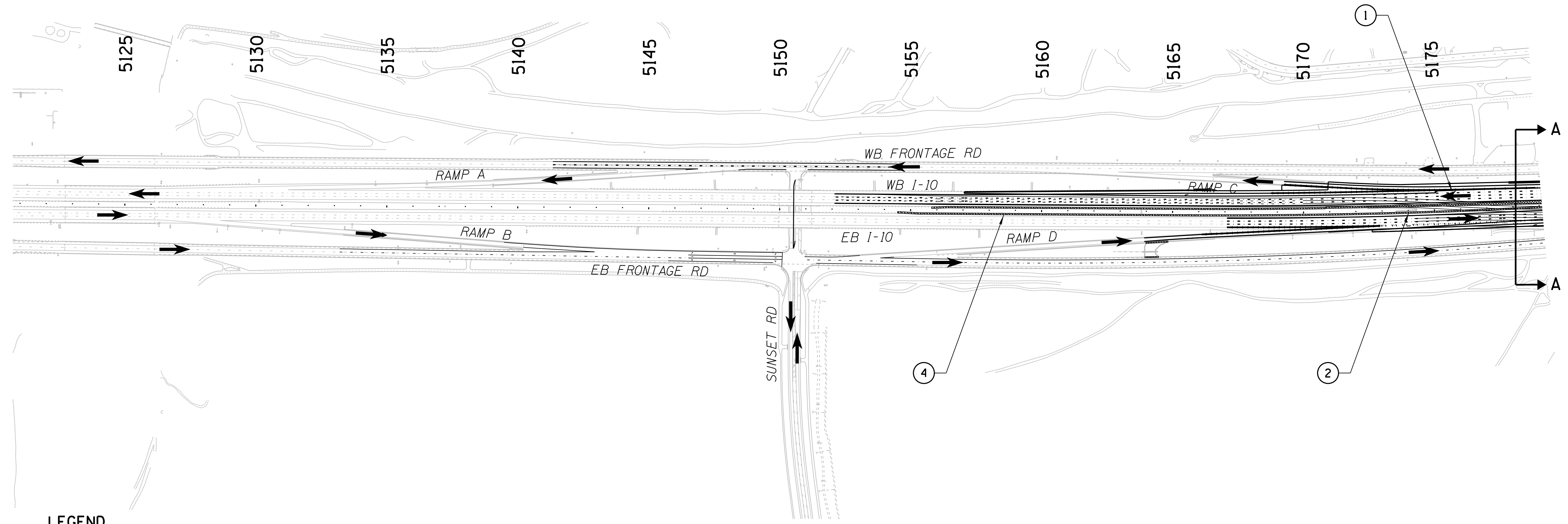


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	317	849	

010 PM 252



SECTION A-A  
NTS



**LEGEND**

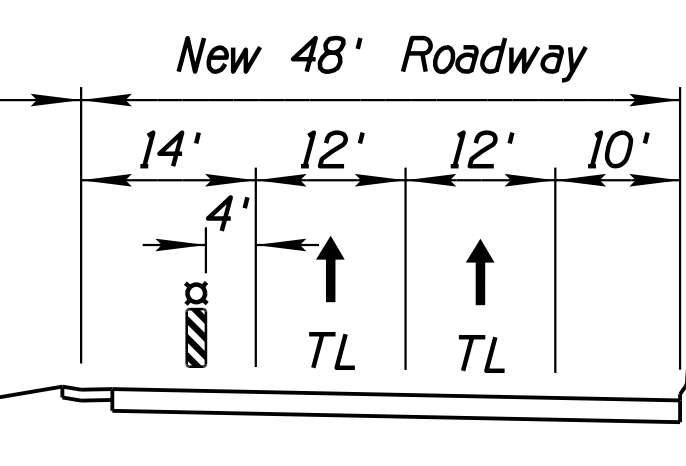
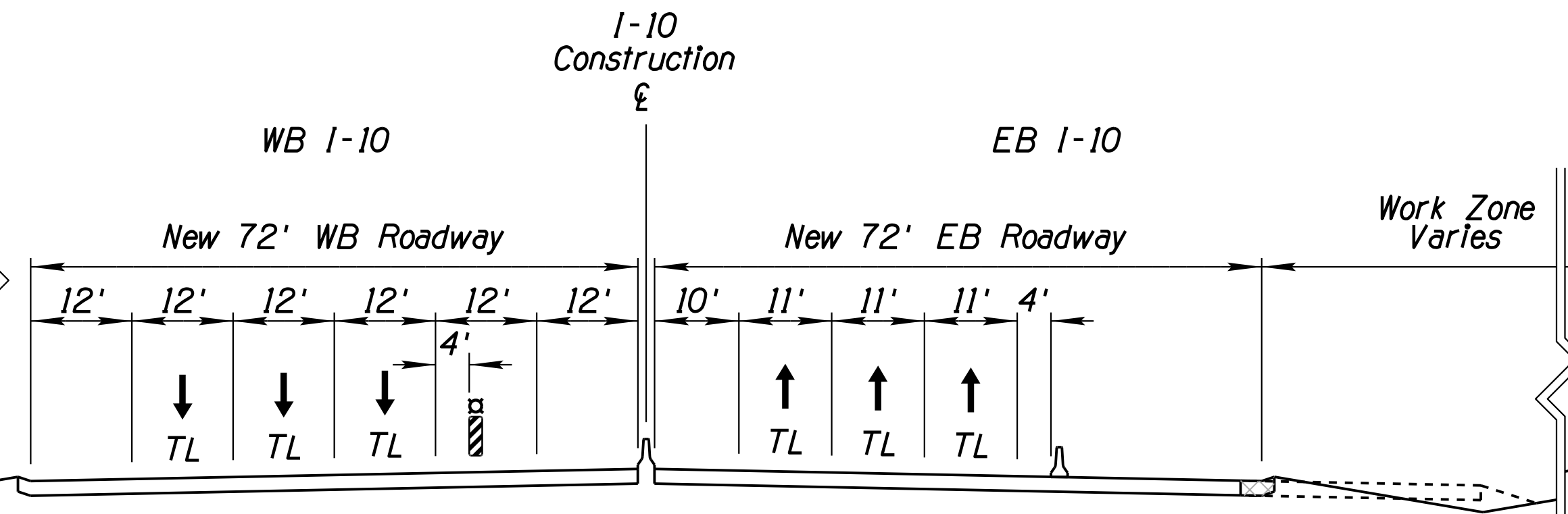
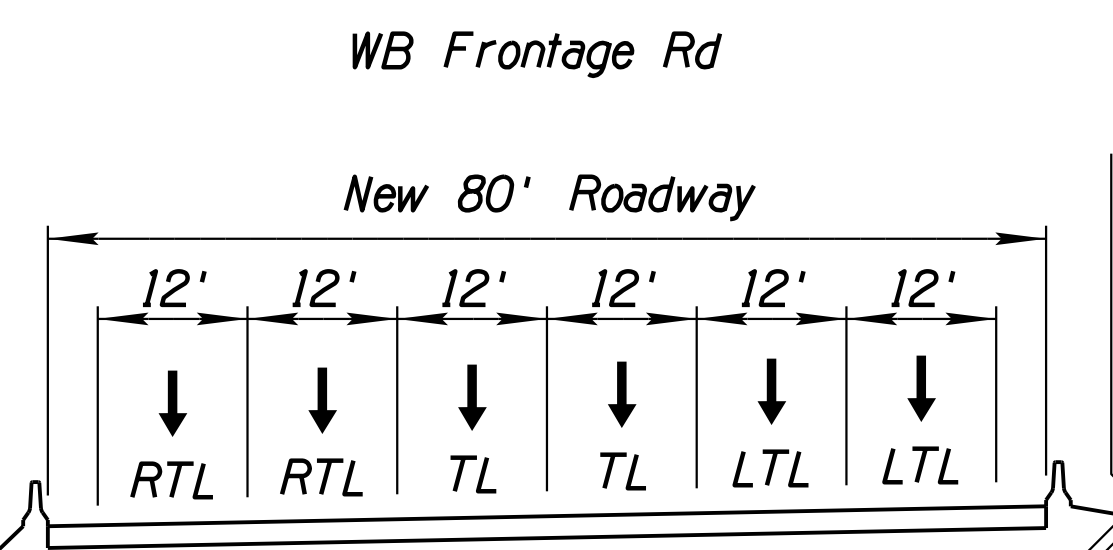
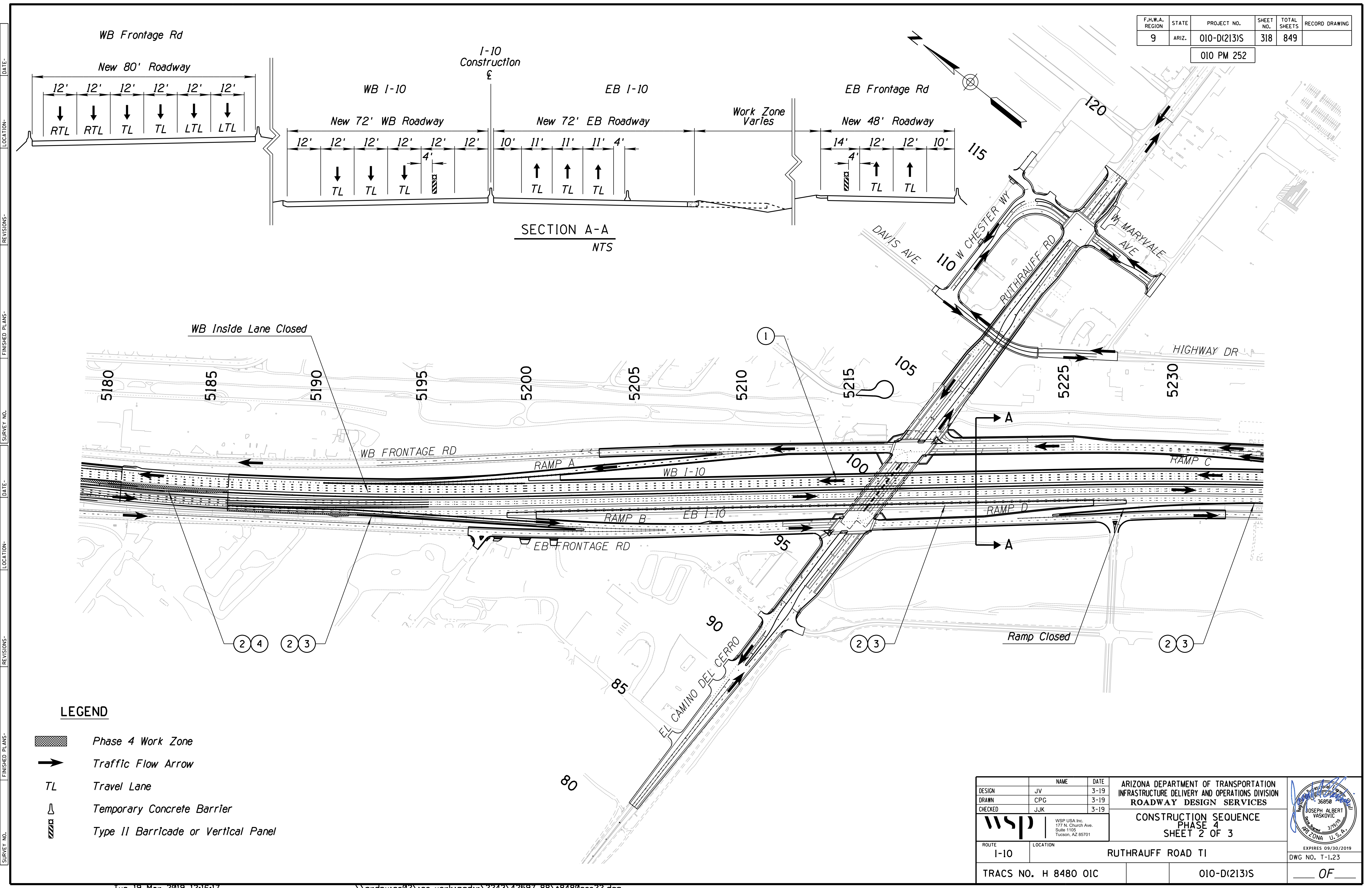
- Phase 4 Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 4</b> <b>SHEET 1 OF 3</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.22 OF

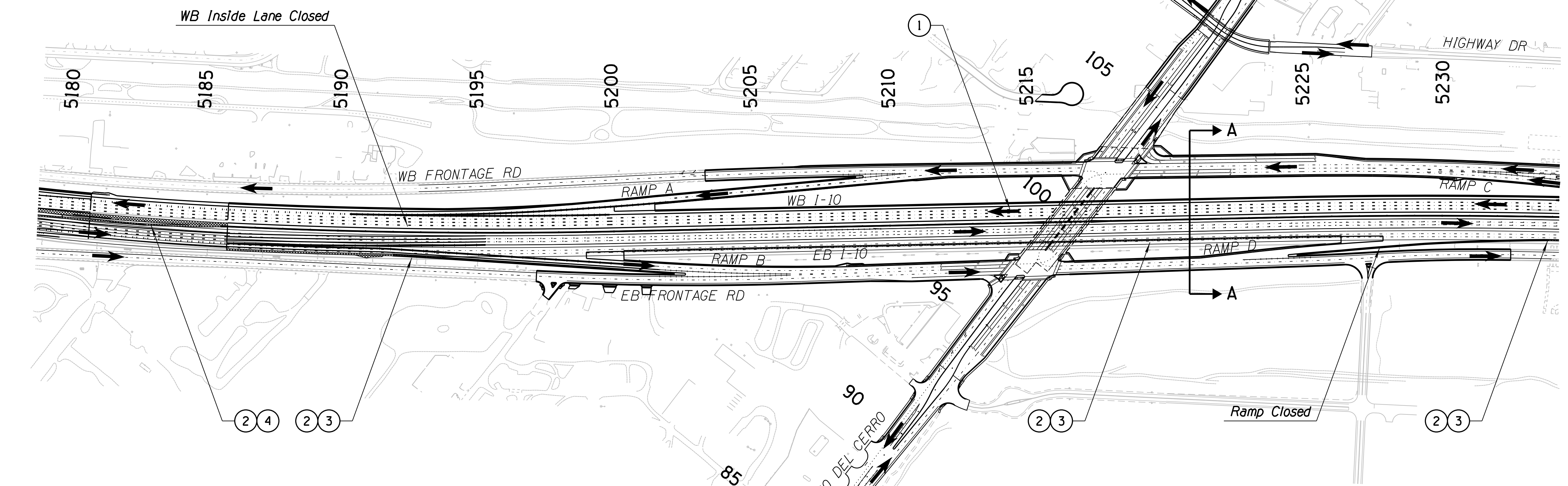
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	318	849	

010 PM 252



SECTION A-A  
NTS



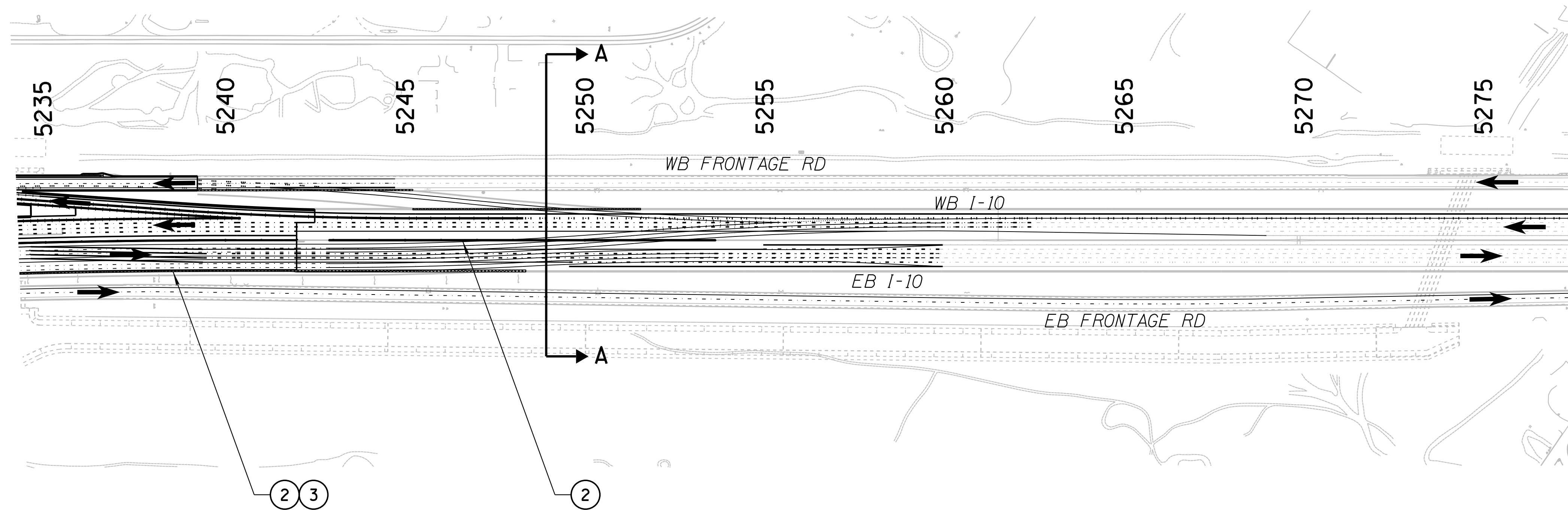
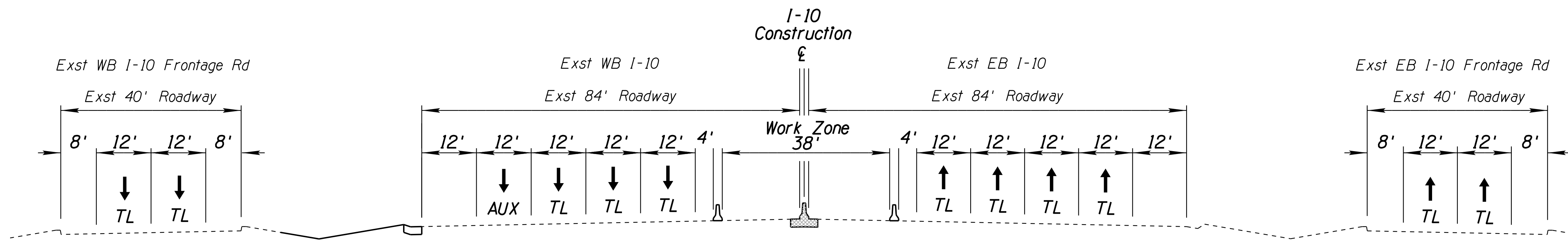
LEGEND

- Phase 4 Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		CONSTRUCTION SEQUENCE PHASE 4 SHEET 2 OF 3	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-1.23 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	319	849	

010 PM 252



**LEGEND**

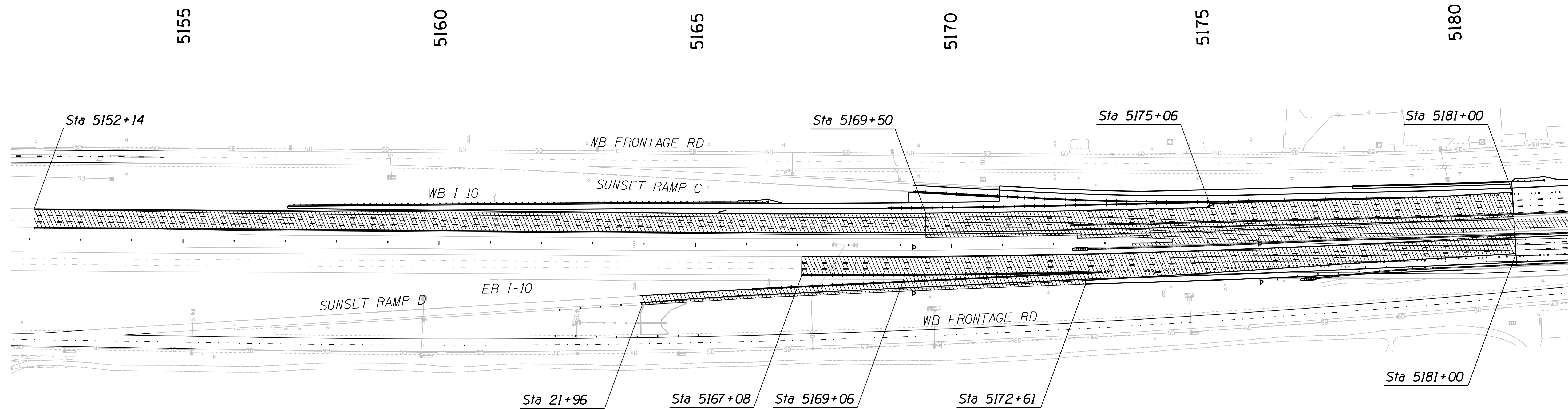
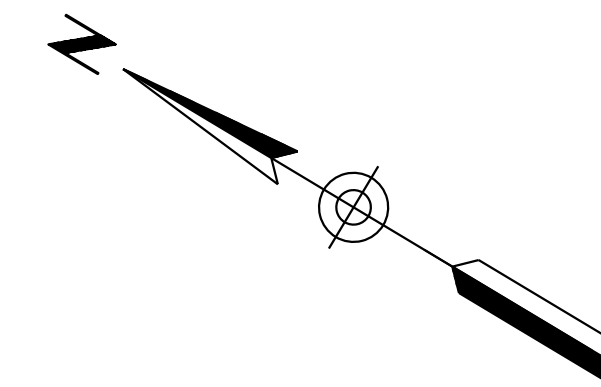
- Phase 4 Work Zone
- Traffic Flow Arrow
- Travel Lane
- Temporary Concrete Barrier
- Type II Barricade or Vertical Panel

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE PHASE 4 SHEET 3 OF 3</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-1.24 OF	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	320	849	

010 PM 252



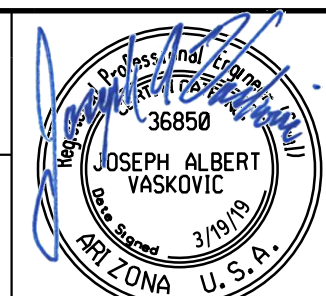

**PHASE 5**  
NTS

**LEGEND**

 Area of Milling for Pavement Marking Obliteration

**NOTES:**

1. Milling depth shall be 1/2" to remove existing AR-ACFC and replaced with 1/2" ACFC paving.
2. See Traffic Control Plan Detail Sheets for lane closures for the Contractors planned night's construction. The Engineer shall approve each night's production based on anticipated production rates.

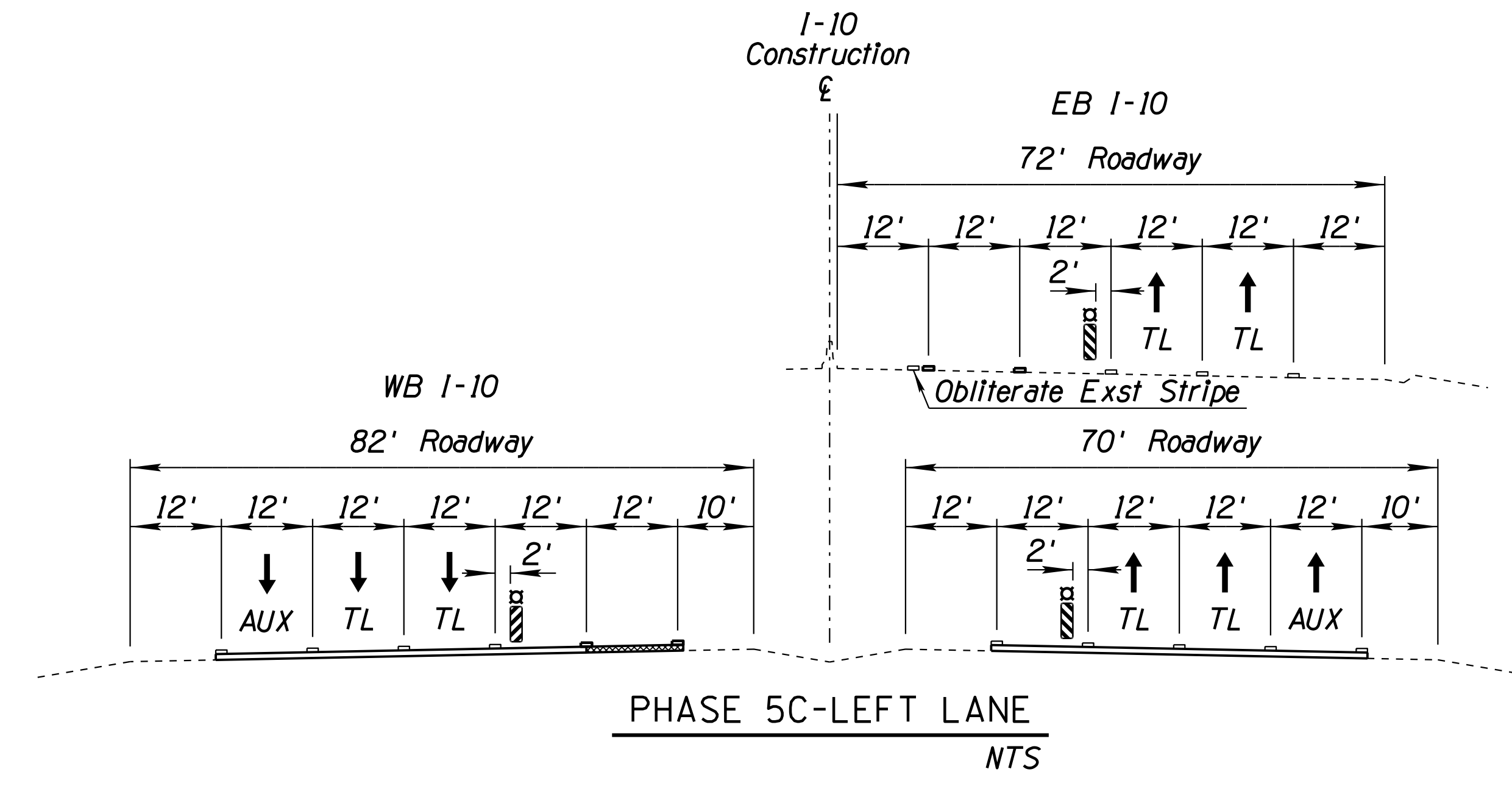
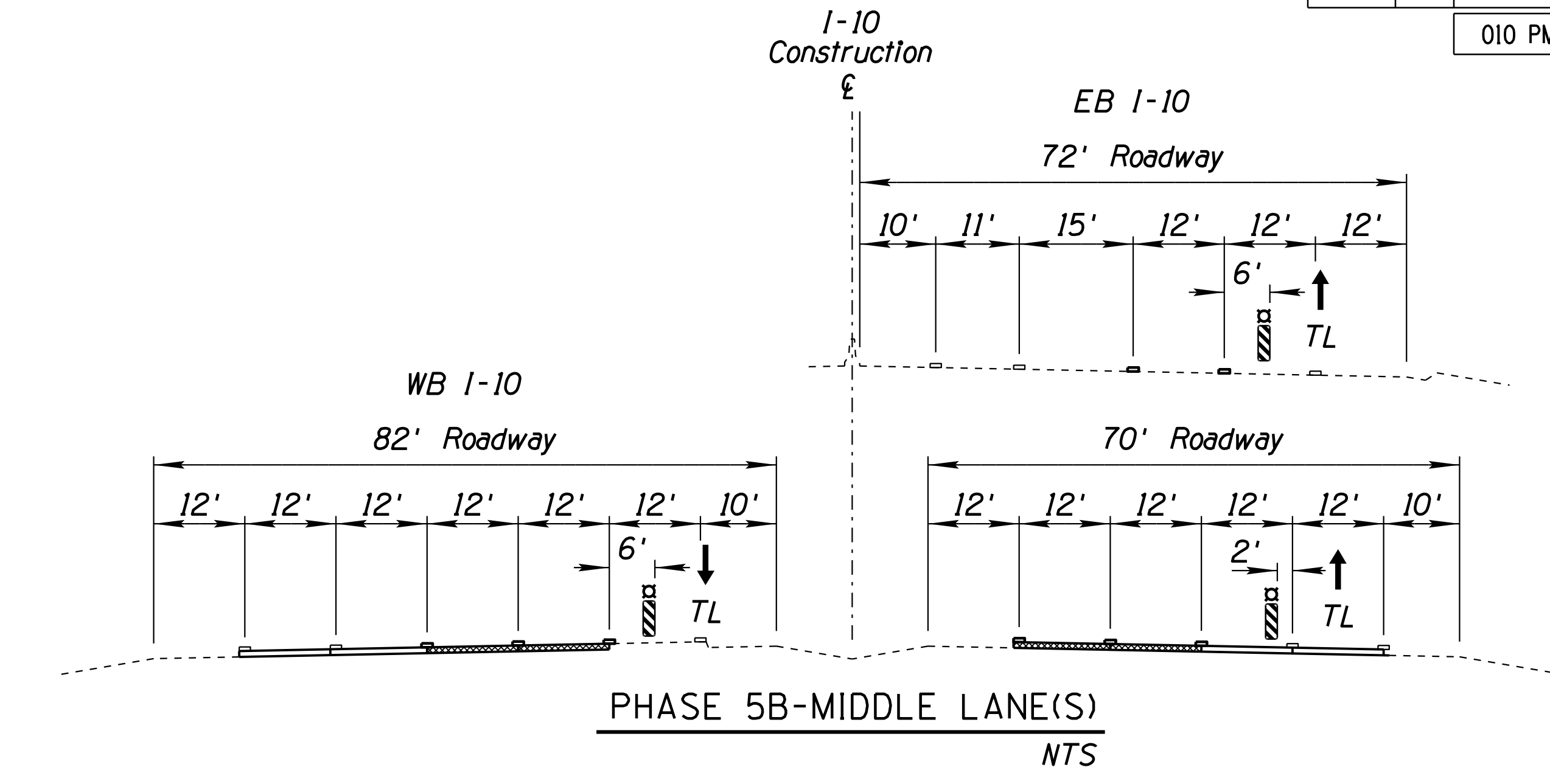
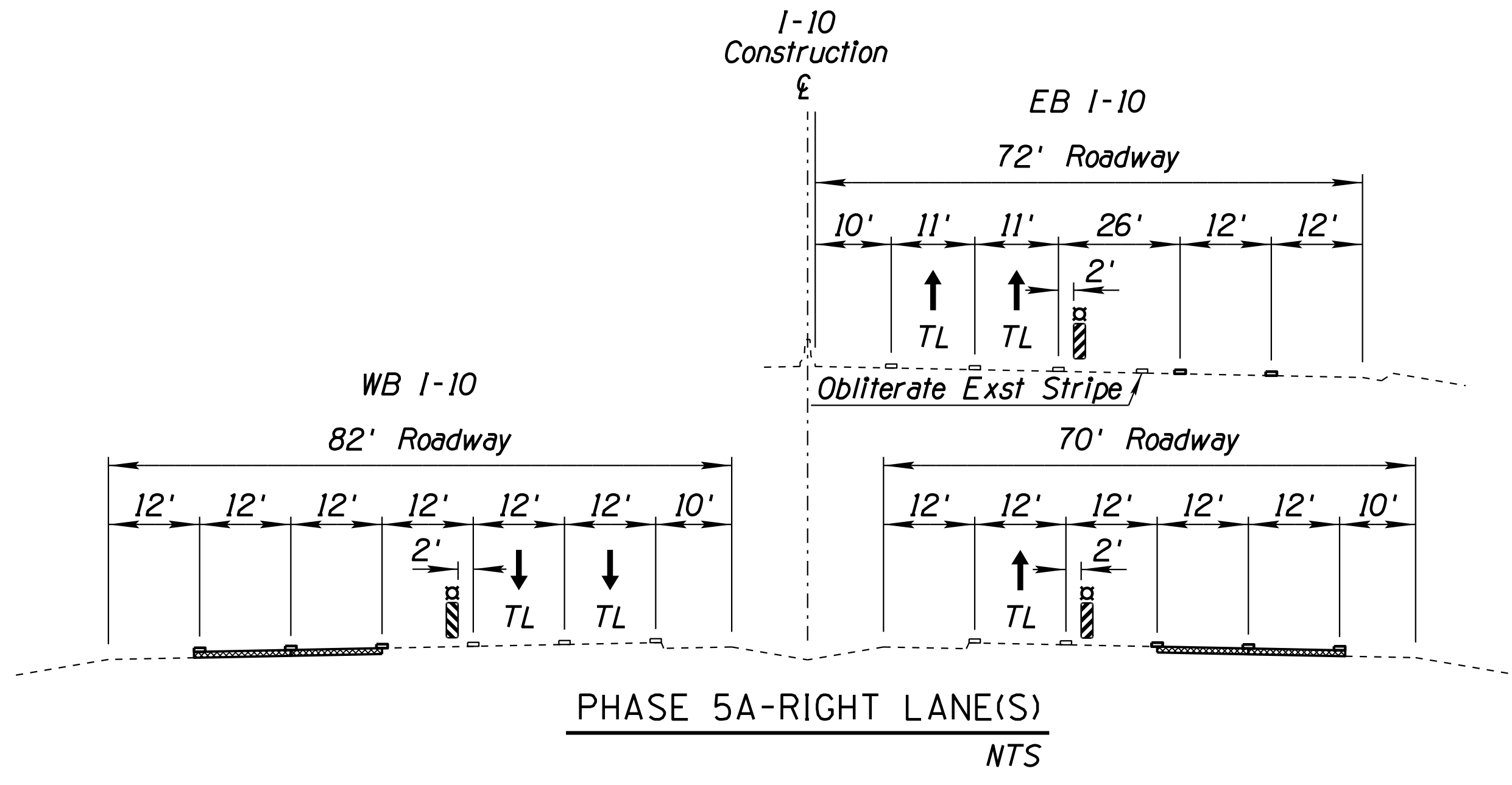
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>CONSTRUCTION SEQUENCE</b> <b>PHASE 5</b> <b>MILLING FOR MARKING REMOVAL</b>		EXPIRES 09/30/2019 DWG NO. T-1.25	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					OF

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	321	849	

010 PM 252

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



**NOTES:**

1. Work shall be conducted during nighttime hours between 8:00 PM and 5:00 AM the following morning, Sunday through Thursday nights, except on holidays or as directed by the Engineer. Work zone traffic control shall be shifted to the proper locations for the work zone planned for that night. Work zone traffic control devices shall be removed and/or relocated prior to daytime hours.
2. Maintain at least 2' shoulders on each side of the traveled way at all times throughout the project limits.
3. For each stage, Type II barricades shall be set for traffic control for the Contractors planned night's construction. The Engineer shall approve each night's production based on anticipated production rates.
4. See Traffic Control Plan Detail Sheets for lane closures.
5. Milling, ACFC paving, and final striping is shown in a recommended sequence, with WB final striping over new PCCP assumed to be completed in Phase 3. The Contractor may use a different sequence with the Engineer's approval.
6. See Roadway Plans for ACFC limits and dimensions.

**LEGEND**

- Milling and ACFC Overlay
- Completed ACFC Overlay
- TL Travel Lane
- New Paint Stripe
- Exst Paint Stripe
- Type II Barricade or Vertical Panel

WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
CONSTRUCTION SEQUENCE <b>PHASE 5</b> MILLING AND FINAL STRIPING		EXPIRES 09/30/2019 DWG NO. T-1.26	
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
1-10		TRACS NO. H 8480 OIC	010-D(213)S

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	322	849	

010 PM 252

### Phase 1 Option

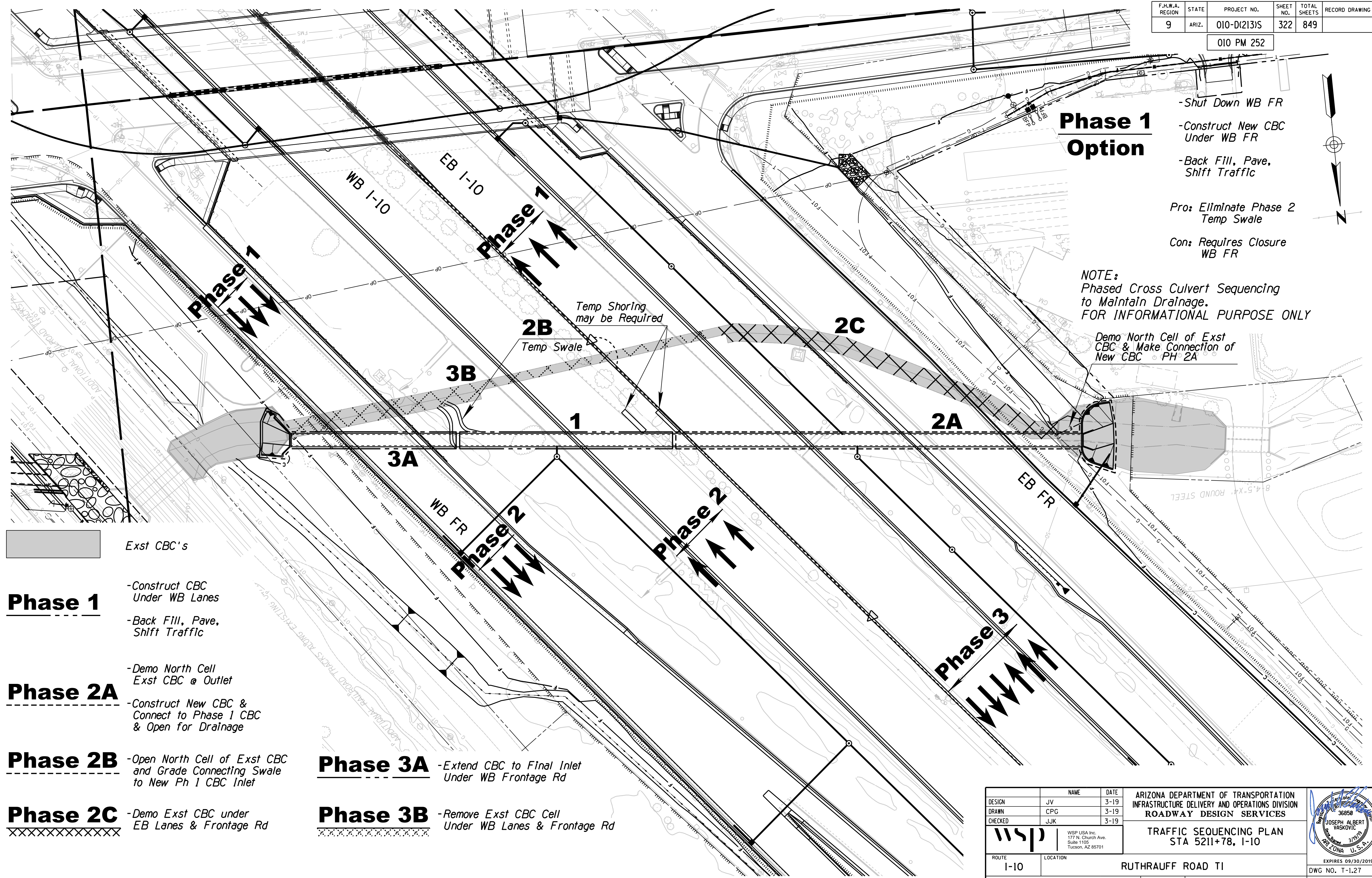
- Shut Down WB FR
- Construct New CBC Under WB FR
- Back Fill, Pave, Shift Traffic

Pro: Eliminate Phase 2 Temp Swale

Con: Requires Closure WB FR

NOTE:  
Phased Cross Culvert Sequencing to Maintain Drainage.  
FOR INFORMATIONAL PURPOSE ONLY

Demo North Cell of Exst CBC & Make Connection of New CBC @ PH 2A



**Phase 1**  
- Construct CBC Under WB Lanes  
- Back Fill, Pave, Shift Traffic

**Phase 2A**  
- Demo North Cell Exst CBC @ Outlet  
- Construct New CBC & Connect to Phase 1 CBC & Open for Drainage

**Phase 2B**  
- Open North Cell of Exst CBC and Grade Connecting Swale to New Ph 1 CBC Inlet

**Phase 2C**  
- Demo Exst CBC under EB Lanes & Frontage Rd

**Phase 3A**  
- Extend CBC to Final Inlet Under WB Frontage Rd

**Phase 3B**  
- Remove Exst CBC Cell Under WB Lanes & Frontage Rd

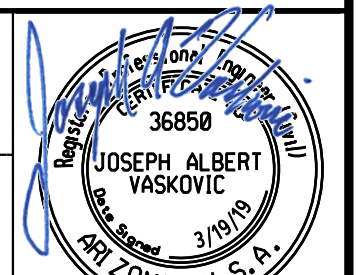


Exst CBC's

DESIGN	JV	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JJK	DATE	3-19

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

TRAFFIC SEQUENCING PLAN  
STA 5211+78, I-10



ROUTE: I-10

LOCATION: RUTHRAUFF ROAD TI

EXPIRES 09/30/2019  
DWG NO. T-1.27

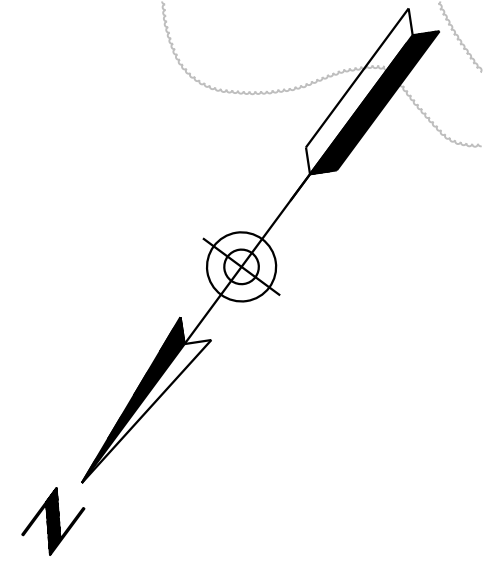
TRACS NO. H 8480 OIC

010-D(213)S

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	323	849	

010 PM 252



Exst Drain CBC's

**Phase 1**

- Construct South 2-Cells Under WB Lanes w/Traffic moved to FR
- Back Fill, Pave, Shift Traffic

**Phase 2A**

- Construct South 2-Cells Under EB Lanes once EB Traffic on WB I-10

**Phase 2B**

- Remove Exst CBC Cell Under EB Lanes/Ramp

**Phase 2C**

- Construct North 2-Cells Under EB Lanes/Ramp

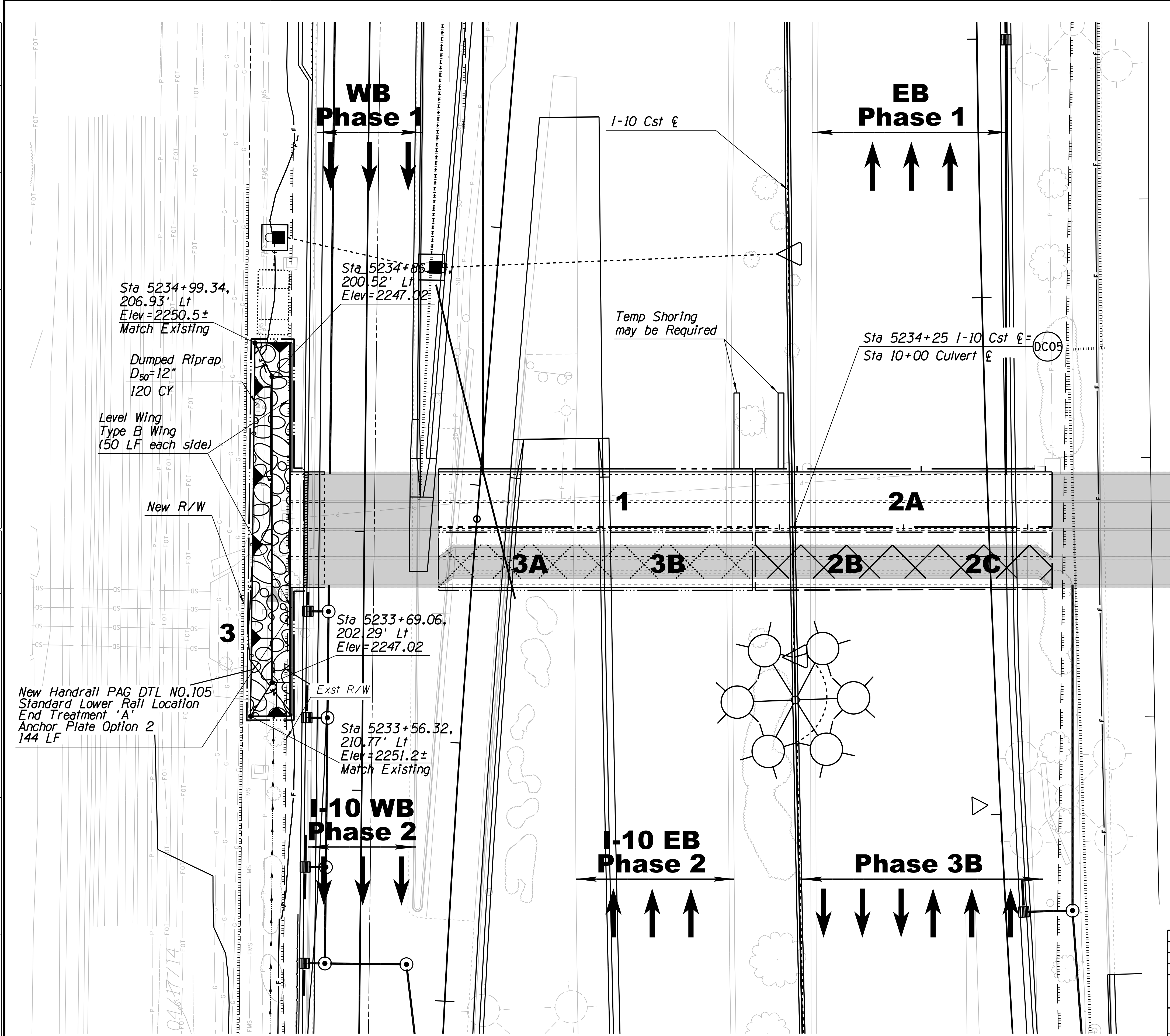
**Phase 3A**

- Remove Exst CBC Cell Under WB Lanes/Ramp

**Phase 3B**

- Construct North 2-Cells Under WB Lanes of CBC

**NOTE:**  
Phased Cross Culvert Sequencing to Maintain Drainage.  
FOR INFORMATIONAL PURPOSE ONLY



DESIGN	JV	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JJK	DATE	3-19

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

**TRAFFIC SEQUENCING PLAN**  
STA 5234+25, I-10

WSP USA, Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

JOSEPH ALBERT VASKOVIC  
Professional Engineer  
No. 36850  
State of Arizona  
Expires 09/30/2019

ROUTE: I-10 LOCATION: RUTHERAUFF ROAD TI


TRACS NO. H 8480 OIC PROJECT NO. 010-D(213)S DWG NO. T-1.28

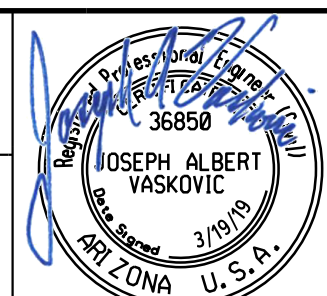
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	324	849	

010 PM 252

## TRAFFIC CONTROL GENERAL NOTES:

1. 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.
2. Coordination will be required with adjacent construction projects. The Engineer shall ultimately decide the appropriate traffic control in order to coordinate work activities.
3. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer, at no cost to the Department
4. The Contractor shall maintain traffic on a paved surface at all times.
5. All existing signs in conflict with the construction signs shall be 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.
6. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
7. "Watch for Trucks" signs (W21-8) shall be installed wherever truck ingress or egress is expected.
8. Use double fines signing when workers are present. See Figure SA-12 of the 2010 ADOT Traffic Control Design Guidelines.
9. The retroreflective sheeting on all construction signs and delineation for impact attenuators shall meet the criteria established for Type VIII, IX, or XI sheeting in accordance with ASTM D4956, except all black-on-white signs, barricades, vertical panels, and other work zone traffic control devices may have Type IV sheeting. All orange signs shall have fluorescent sheeting.
10. All construction signs shall have black letters on a fluorescent orange background, except as otherwise noted.
11. For signs installed on embedded posts, sign mounting height is a minimum of 7 feet as measured from the bottom of the sign to the near edge of the pavement. For signs installed on spring or rigid stands, sign mounting height is a minimum of 5 feet above the pavement.
12. 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 unless behind barrier. Behind barrier, sign offsets shall be 6 feet behind guardrail and 2 feet behind concrete barrier.
13. Embedded posts may be used in place of spring or rigid sign stands as long as they are not placed through new pavement.
14. 2 flags shall be mounted on top of all construction signs except the "End Road Work Thank You" sign. Type A flashing warning lights shall be required on all nighttime construction signs except the "End Road Work Thank You" sign.
15. 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 the construction activities.
16. When traffic control devices are not in use, the Contractor shall remove these items to a location at least 30 feet from the edge of the paved roadway. This includes all supports without sign panels. Any signs which are not in use but cannot be moved at least 30 feet from the roadway shall be covered so the public cannot read the legends.
17. Type II barricades shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on the plans.
18. The Contractor may substitute Type I barricades for Type II barricades as long as the reflective area on the top panel of the Type I barricade is equivalent to or greater than the reflective area of a Type II barricade.
19. A Type C steady-burning yellow light shall be mounted on every Type I or Type II barricade and vertical panels used for channelization during nighttime activities.
20. During nighttime the Contractor shall not utilize cones for channelization devices unless otherwise directed by the Engineer.
21. 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.
22. The Contractor shall position changeable message boards as directed by the Engineer with ten Type II barricades, each with Type C lights for nighttime use, around each changeable message board.
23. An adequate number of Type III barricades shall be placed across each roadway to be closed. A 48 inch by 30 inch "Road Closed" sign shall be attached to one of the Type III barricades closing the roadway. A Type A flashing warning light shall be mounted on each end of each Type III barricade during nighttime activities.
24. For temporary concrete barrier details, see Std. Dwg. C-3. BM-1 (white) or BM-2 (yellow) barrier markers, listed on the ADOT approved products list and conforming to Standard Drawings M-32 and M-33, shall be installed at 20 foot spacing. The installed price for the markers shall be considered a part of the barrier cost.
25. Off-duty uniformed officers and their vehicles shall be included as part of the Contractor's traffic control when the Engineer decides they should be present, including during the installation, relocation between phases, and removal of temporary concrete barrier.
26. Temporary impact attenuators shall be metal energy-absorbing terminals, such as the Quad Guard CZ, Quad Trend 350 or the TRACC systems, which meet the requirements of AASHTO Manual for Assessing Safety Hardware (MASH) test level TL-3.
27. All existing pavement markings in conflict with the traffic control plans shall be removed by methods approved by the Engineer. For a short-term shift in traffic or lane closure, the shift may be accomplished through channelizing devices with the existing pavement markings remaining in place.
28. The Contractor shall clean the roadway surface to the satisfaction of the Engineer by sweeping and air-jet blowing, immediately prior to the placement of all temporary pavement markings. The roadway surface shall be dry.
29. Temporary striping shall be standard reflectorized traffic paint, as identified on the plans.
30. When no longer required, temporary pavement markings shall be removed. Standard reflectorized traffic paint shall be obliterated by methods approved by the Engineer.
31. The Contractor shall abide by the traffic control requirements contained in subsection 104.04 - Maintenance of Traffic - of the Special Provisions.
32. All drawings are schematic only and not to scale.
33. Design references:  
MUTCD - Manual on Uniform Traffic Control, 2009 Edition, Part 6, Temporary Traffic Control.  
TCDG - Traffic Control Design Guidelines, 2010, ADOT Traffic Group.
34. When Highway Logo signs are required to be removed, relocated, or covered, or if ramp traffic for businesses on the Logo Signs is detoured, the Contractor shall contact the Director of Field Operations at Grand Canyon State Logo Signs, at 602-712-2120, a minimum of three weeks in advance of such activity.
35. Temporary drainage is shown for informational purposes only. Contractor is responsible to maintain existing drainage patterns during construction activities, see General Requirements of the Project Special Provisions.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES
JV		3-19	
CPG		3-19	
CHECKED	JJK	3-19	
			<b>TRAFFIC CONTROL PLANS GENERAL NOTES</b>
<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>			
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	OF





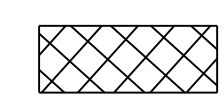







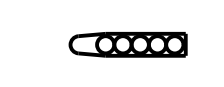


APPROXIMATE TRAFFIC CONTROL QUANTITIES

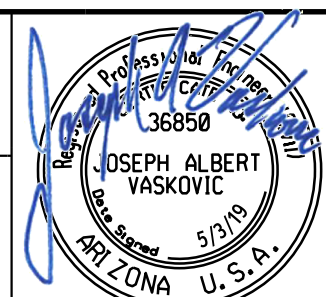

ITEM NO.	ITEM DESCRIPTION	UNITS	TRAFFIC CONTROL PHASE WITH DURATIONS													TOTALS (ROUNDED)		
			Advance Signing	1A	1B	2A	2B	3A	3B	3C	4	5	Detour 2A	Detour 2B-3C	Orange Grove Closure			
			810	120	120	180	30	30	180	60	60	30	180	300	660			
7010006	FURNISH & INSTALL TEMPORARY TRAFFIC CONTROL DEVICES	L. SUM				1*	1*						1*					1*
7015010	TEMPORARY CONCRETE BARRIER (INSTALLATION & REMOVAL)	LF		10,905	8,484	18,940	3,414	14,222	1,967	1,862	16,111							75,710
7015020	TEMPORARY IMPACT ATTENUATORS (INSTALLATION & REMOVAL)	EACH		5	2	7	4	5	4	2	7							40
7015042	TEMPORARY PAINTED MARKING (STRIPE)	LF		4,311	22,091	149,282	37,211	49,607	3,352	172	35,575							302,000
7015052	OBLITERATE PAVEMENT MARKING (STRIPE)	LF		0	9,792	81,154	32,988	16,633	3,205	4,312	54,277							203,000
7015061	TEMPORARY PAVEMENT MARKERS (RAISED) (REFLECTIVE)	EACH			317	1,579	574	693	12		791							4,000
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	LF/DAY		1,308,600	1,171,230	3,409,200	415,170	533,400	3,094,740	1,023,660	966,660							11,923,000
7016021	TEMPORARY IMPACT ATTENUATOR (IN USE)	EA-DAY		720	240	1,440	240	270	1,260	300	420							4,900
7016030	BARRICADE (TYPE II, VERT. PANEL, TUBULAR MARKER)	EA-DAY	16,200	8,490	4,650	29,340	4,020	5,310	24,120	7,620	6,000	103,320	3,600	6,000	51,480			270,200
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EA-DAY		2,400	28	9,360	870	1,080	4,860	1,140	180	24			2,640			22,600
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EA-DAY		115	254	1,440	330	390	1,800	180		374						4,900
7016035	WARNING LIGHTS (TYPE A)	EA-DAY	39,690	2,995	2,802	12,780	1,350	1,470	7,740	2,220	1,140	382	25,200	40,800	3,960			142,600
7016037	WARNING LIGHTS (TYPE C)	EA-DAY	16,200	8,490	4,650	29,340	4,020	5,310	24,120	7,620	6,000	3,444	3,600	6,000	51,480			170,300
7016038	TRAFFIC CONE (28 INCHES)	EA-DAY		6,000	6,000	9,000	1,500	1,500	9,000	3,000	3,000	50						39,100
7016039	EMBEDDED SIGN POST	EA-DAY	43,310	2,520	2,520	8,640	660	690	4,140	1,620	900		8,100	13,200	3,960			88,300
7016050	TRUCK MOUNTED ATTENUATOR	EA-DAY		5								12						20
7016051	TEMPORARY SIGN (LESS THAN 10 SQ FT)	EA-DAY	7,290		478	3,420	360	420	2,160	480	240		21,240	34,200				70,300
7016052	TEMPORARY SIGN (10 SQ FT OR MORE)	EA-DAY	32,400	2,995	2,562	9,360	990	1,050	5,580	1,740	900	382	3,960	6,600	3,960			72,500
7016061	FLASHING ARROW PANEL	EA-DAY		5		540	90	90	540	240	240	32						1,780
7016067	CHANGEABLE MESSAGE SIGN (CONTRACTOR FURNISHED)	EA-DAY	1,620										360	600				2,600
7016078	FLAGGING SERVICES (LOCAL ENFORCEMENT OFFICER)	HOURS		50		50												100
7016080	FLAGGING SERVICES (DPS)	HOURS	50	87	68	152	27	114	16	13	129	300						960
9022001	MEDIAN GLARE SCREEN	LF				2,816		2,342	2,342	2,342								9,842
9240130	MISCELLANEOUS WORK (PORTABLE SPEED MONITOR)	EA-DAY		240	240	360	60	60	360	120	120	2						1,600

Notes:

- Item 7016038 Traffic Cones (28 Inches) was estimated with a nominal 50 cones per phase.
  - Item 9240130 Miscellaneous Work (Portable Speed Monitor) was estimated with a nominal 2 units per phase.
  - Total quantities shown are rounded.
- \* Temporary signal installed in Phase 2A, modified in Phase 2B, and removed after Phase 4.

LEGEND

- |   |                               |   |  |
|---|-------------------------------|---|--|
|  | Construction This Phase       |  | Type III Barricade (1000' Intervals) w/Type A Lights |
|  | Temporary Pavement This Phase |  | Type II Barricade w/Type C Light                     |
|  | Flashing Arrow Panel          |  | Sign on Embedded Post(s)                             |
|  | Temporary Concrete Barrier    |  | Sign on Spring Stand                                 |
|  | Temporary Impact Attenuator   |  | Stripe Obliteration                                  |
|  | Travel Lane Use               |   |  |

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		TRAFFIC CONTROL QUANTITIES	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. T-2.02 OF	

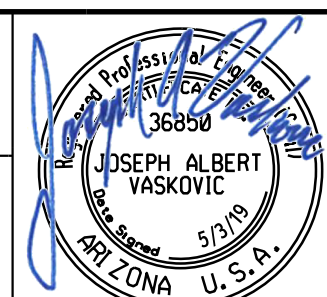

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	326	849	

010 PM 252

### TEMPORARY CONCRETE BARRIER SUMMARY TABLE

PHASE	FACILITY	DIRECTION	SIDE	BEG STA	END STA	LENGTH (Ft)	DURATION (Days)	FT-DAY	FT-DAY
1A	I-10	EB	Lt	5166+77	5201+74	3,497	120	419,640	
1A	I-10	WB	Lt	5170+00	5204+10	3,410	120	409,200	
1A	I-10	EB	Lt	5240+28	5254+64	1,436	120	172,320	
1A	I-10	WB	Lt	5241+88	5257+00	1,512	120	181,440	
1A	I-10	WB	Rt	5243+50	5254+00	1,050	120	126,000	1,308,600
1B	I-10	EB	Lt	5166+77	5201+74	3,497	120	419,640	
1B	I-10	WB	Rt	5174+96	5182+93	797	120	95,640	
1B	WB Frontage	WB	Lt	5180+17	5209+63	2,946	120	353,520	
1B	I-10	WB	Rt	5182+93	5209+63	2,670	90	240,300	
1B	I-10	WB	Rt	5182+93	5203+64	2,071	30	62,130	1,171,230
2A	EB On Ramp	EB	Lt	5163+85	5165+05	120	180	21,600	
2A	I-10	EB	Rt	5170+27	5213+90	4,363	180	785,340	
2A	I-10	WB	Rt	5171+17	5193+10	2,193	180	394,740	
2A	I-10	WB	Lt	5168+00	5200+74	3,274	180	589,320	
2A	EB Frontage	WB	Rt	5180+77	5201+50	2,073	180	373,140	
2A	I-10	WB	Rt	5210+53	5213+90	337	180	60,660	
2A	WB Frontage	WB	Lt	5217+31	5218+36	105	180	18,900	
2A	WB Frontage	WB	Rt	5217+55	5220+35	280	180	50,400	
2A	I-10	EB	Lt	5231+05	5253+83	2,278	180	410,040	
2A	I-10	EB	Rt	5237+00	5251+17	1,417	180	255,060	
2A	I-10	WB	Lt	5235+85	5260+85	2,500	180	450,000	3,409,200
2B	I-10	WB	Rt	5171+17	5193+10	2,193	30	65,790	
2B	I-10	WB	Lt	5168+00	5200+74	3,274	30	98,220	
2B	I-10	EB	Lt	5174+21	5187+00	1,279	30	38,370	
2B	EB Frontage	EB	Lt	5180+77	5201+50	2,073	30	62,190	
2B	I-10	EB	Rt	5192+00	5200+00	800	30	24,000	
2B	EB Frontage	EB	Lt	5213+09	5216+09	300	30	9,000	
2B	WB Frontage	WB	Lt	5217+31	5218+36	105	30	3,150	
2B	WB Frontage	WB	Rt	5217+55	5220+35	280	30	8,400	
2B	EB Frontage	EB	Rt	5222+65	5233+00	1035	30	31,050	
2B	I-10	WB	Lt	5235+85	5260+85	2,500	30	75,000	415,170
3A	I-10	EB	Lt	5166+80	5253+64	8,684	30	260,520	
3A	I-10	WB	Rt	5156+04	5186+00	2,996	30	89,880	
3A	EB Frontage	EB	Lt	5180+77	5201+50	2,073	30	62,190	
3A	I-10	EB	Rt	5192+00	5200+00	800	30	24,000	
3A	WB Frontage	WB	Lt	5194+01	5200+62	661	30	19,830	
3A	EB Frontage	EB	Lt	5213+09	5216+09	300	30	9,000	
3A	WB Frontage	WB	Lt	5217+31	5218+36	105	30	3,150	
3A	WB Frontage	WB	Rt	5217+55	5220+35	280	30	8,400	
3A	EB Frontage	EB	Lt	5222+65	5233+00	1035	30	31,050	
3A	I-10	WB	Rt	5242+88	5251+34	846	30	25,380	533,400

Continued on next sheet

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL APPROXIMATE QUANTITIES</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2.03 OF	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	327	849	

010 PM 252

TEMPORARY CONCRETE BARRIER SUMMARY TABLE

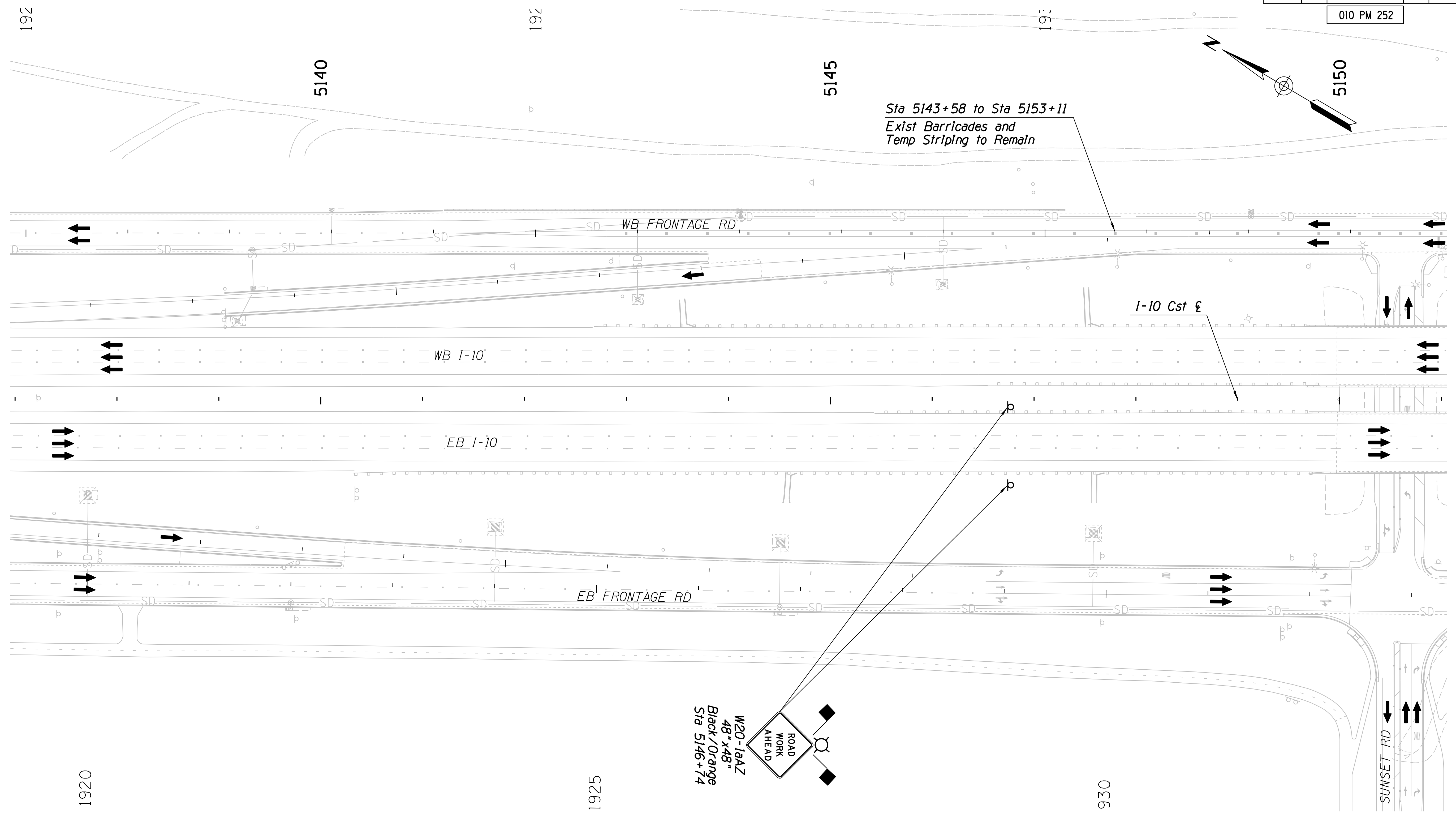
PHASE	FACILITY	DIRECTION	SIDE	BEG STA	END STA	LENGTH (Ft)	DURATION (Days)	FT-DAY	FT-DAY
3B	I-10	WB	Rt	5156+04	5186+00	2,996	180	539,280	
3B	I-10	EB	Lt	5166+80	5253+64	8,684	180	1,563,120	
3B	EB Frontage	EB	Lt	5180+77	5201+50	2,073	180	373,140	
3B	I-10	EB	Rt	5192+00	5200+00	800	180	144,000	
3B	WB Off Ramp	WB	Lt	5197+26	5202+69	543	180	97,740	
3B	I-10	WB	Rt	5242+88	5260+85	1,797	180	323,460	
3B	EB Frontage	EB	Lt	5213+09	5216+09	300	180	54,000	3,094,740
3C	I-10	WB	Lt	5156+04	5186+00	2,996	60	179,760	
3C	I-10	EB	Lt	5166+80	5253+64	8,684	60	521,040	
3C	EB Frontage	EB	Lt	5180+77	5201+50	2,073	60	124,380	
3C	I-10	EB	Rt	5192+00	5200+00	800	60	48,000	
3C	WB Frontage	WB	Lt	5194+01	5200+98	697	60	41,820	
3C	I-10	WB	Rt	5201+50	5211+15	965	60	57,900	
3C	I-10	WB	Rt	5242+88	5251+34	846	60	50,760	1,023,660
4	I-10	WB	Lt	5172+33	5203+90	3,157	60	189,420	
4	I-10	EB	Lt	5172+66	5187+01	1,435	60	86,100	
4	I-10	EB	Rt	5177+09	5201+34	2,425	60	145,500	
4	I-10	EB	Rt	5196+59	5249+36	5,277	60	316,620	
4	I-10	EB	Lt	5240+48	5254+64	1,416	60	84,960	
4	I-10	WB	Rt	5241+88	5256+76	1,488	60	89,280	
4	I-10	WB	Lt	5244+42	5253+55	913	60	54,780	966,660
								TOTAL	11,923,000

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL          APPROXIMATE QUANTITIES</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					DWG NO. T-2.04 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	328	849	

010 PM 252



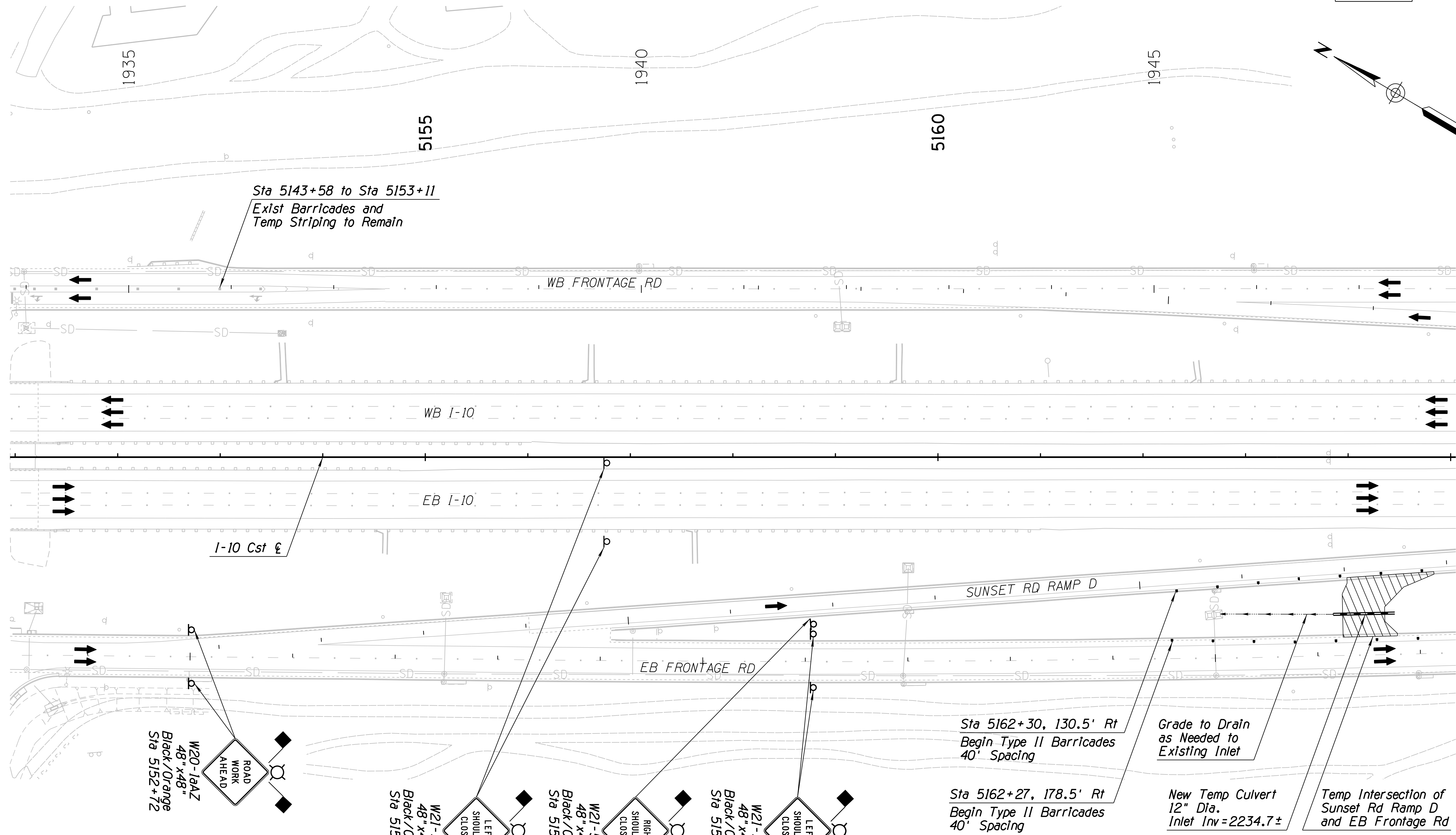
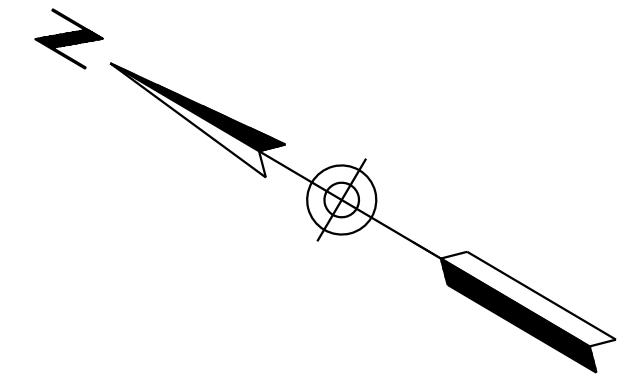
Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> TRAFFIC CONTROL PLAN PHASE 1A Sta 5137+00 to 5151+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.05	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)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-D(213)S	329	849	

010 PM 252



Sta 5143+58 to Sta 5153+11  
Exist Barricades and  
Temp Striping to Remain

Sta 5162+30, 130.5' Rt  
Begin Type II Barricades  
40' Spacing

Sta 5162+27, 178.5' Rt  
Begin Type II Barricades  
40' Spacing

Grade to Drain  
as Needed to  
Existing Inlet

New Temp Culvert  
12" Dia.  
Inlet Inv=2234.7±

Temp Intersection of  
Sunset Rd Ramp D  
and EB Frontage Rd

W20-1aAZ  
48"x48"  
Black/Orange  
Sta 5152+72

W21-5aL  
48"x48"  
Black/Orange  
Sta 5156+77

W21-5aR  
48"x48"  
Black/Orange  
Sta 5159+63

W21-5aL  
48"x48"  
Black/Orange  
Sta 5159+63

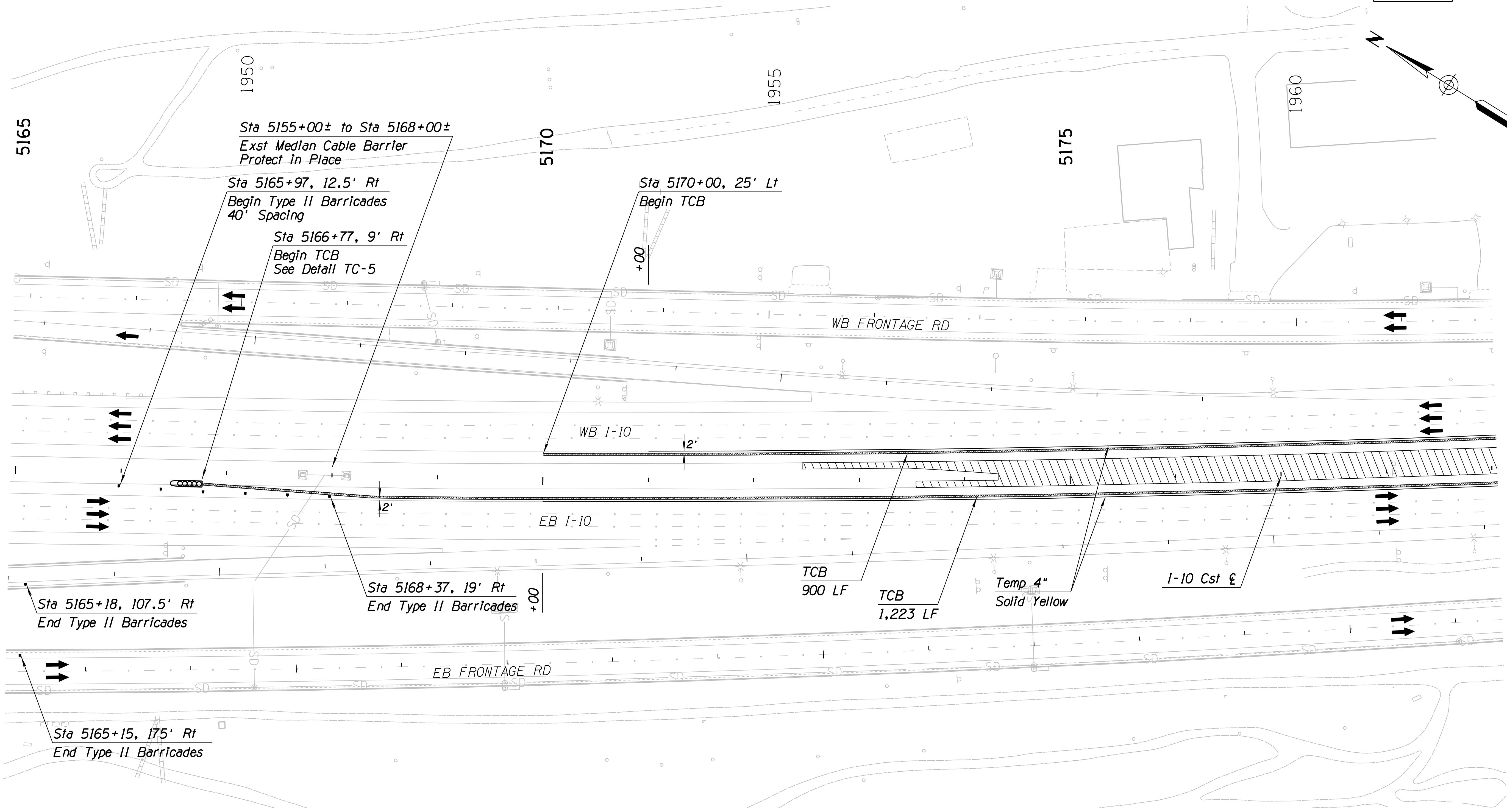
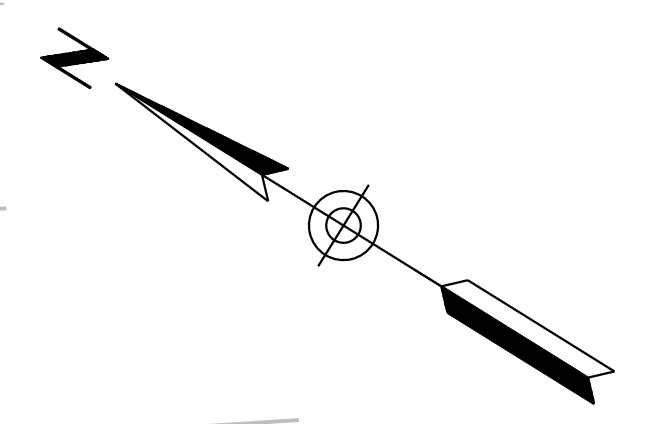
Notes:  
1. All Stations & Offsets are to the  
I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5151+00 to 5165+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.06	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
DATE		DATE	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-D(213)S	330	849	

010 PM 252



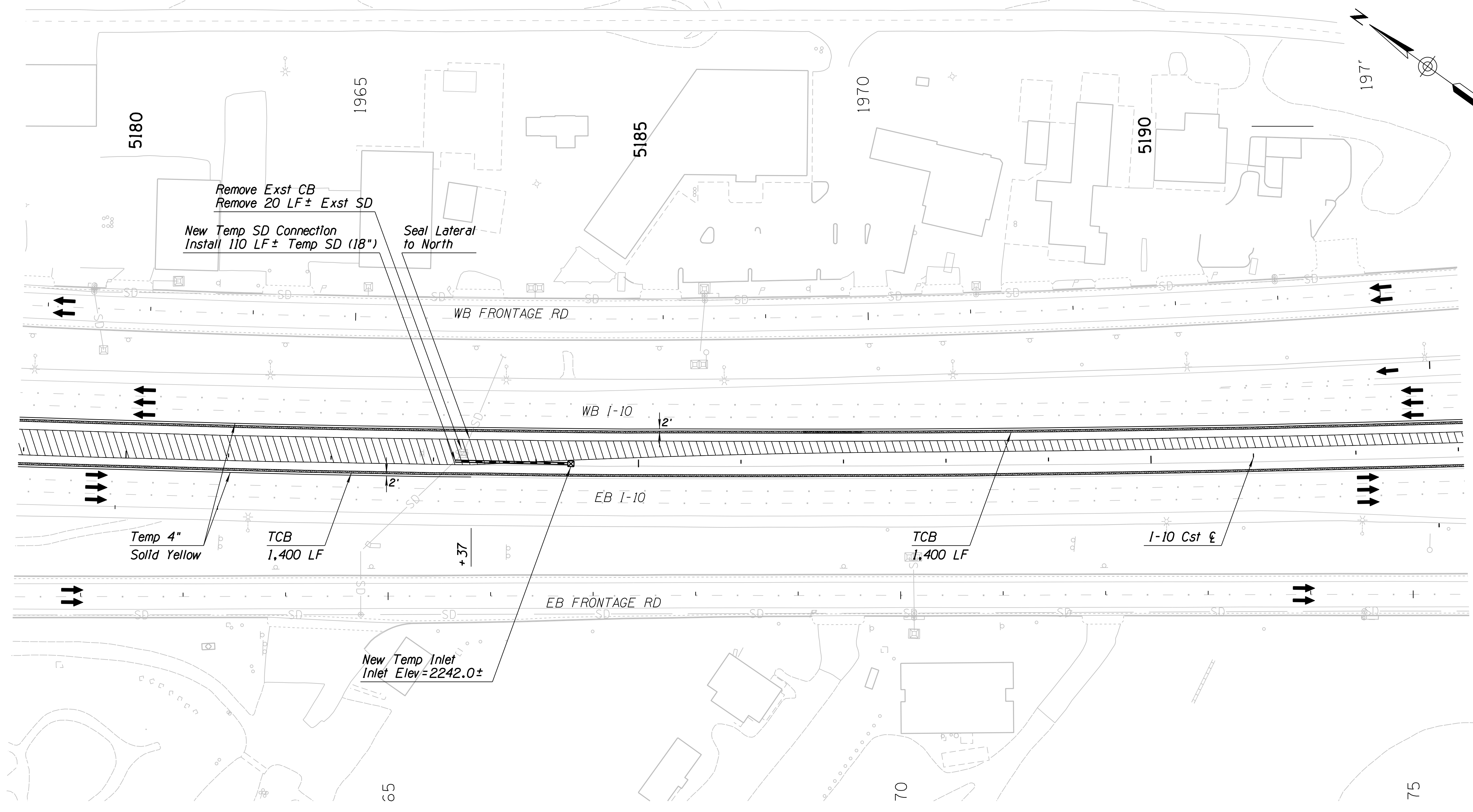
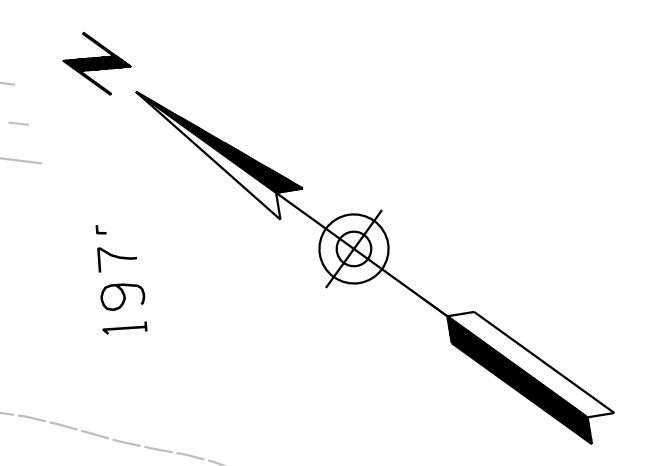
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst ƒ Unless Otherwise Noted.

		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b>		
DESIGN	JV	DATE	3-19	<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5165+00 to 5179+00</b>		
DRAWN	CPG	DATE	3-19	ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.07
CHECKED	JJK	DATE	3-19	TRACS NO. H 8480 OIC		
				010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	331	849	

010 PM 252



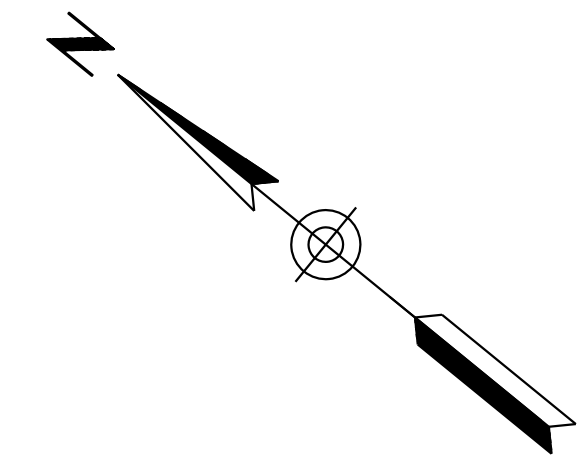
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

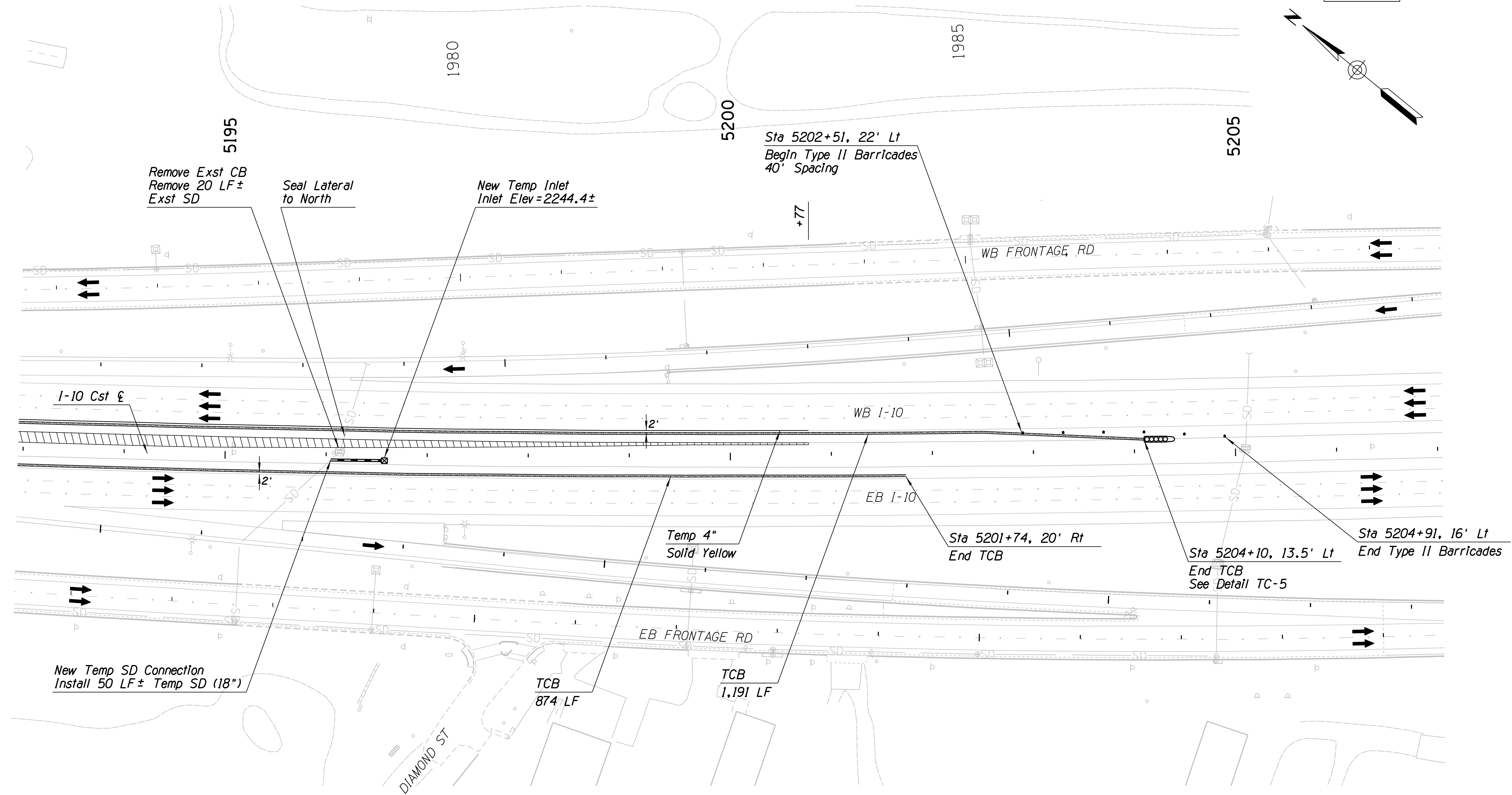
		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b>		
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5179+00 to 5193+00</b>		
DESIGN: JV DRAWN: CPG CHECKED: JJK	NAME: JJK DATE: 3-19	ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.08
TRACS NO. H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	332	849	

010 PM 252



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



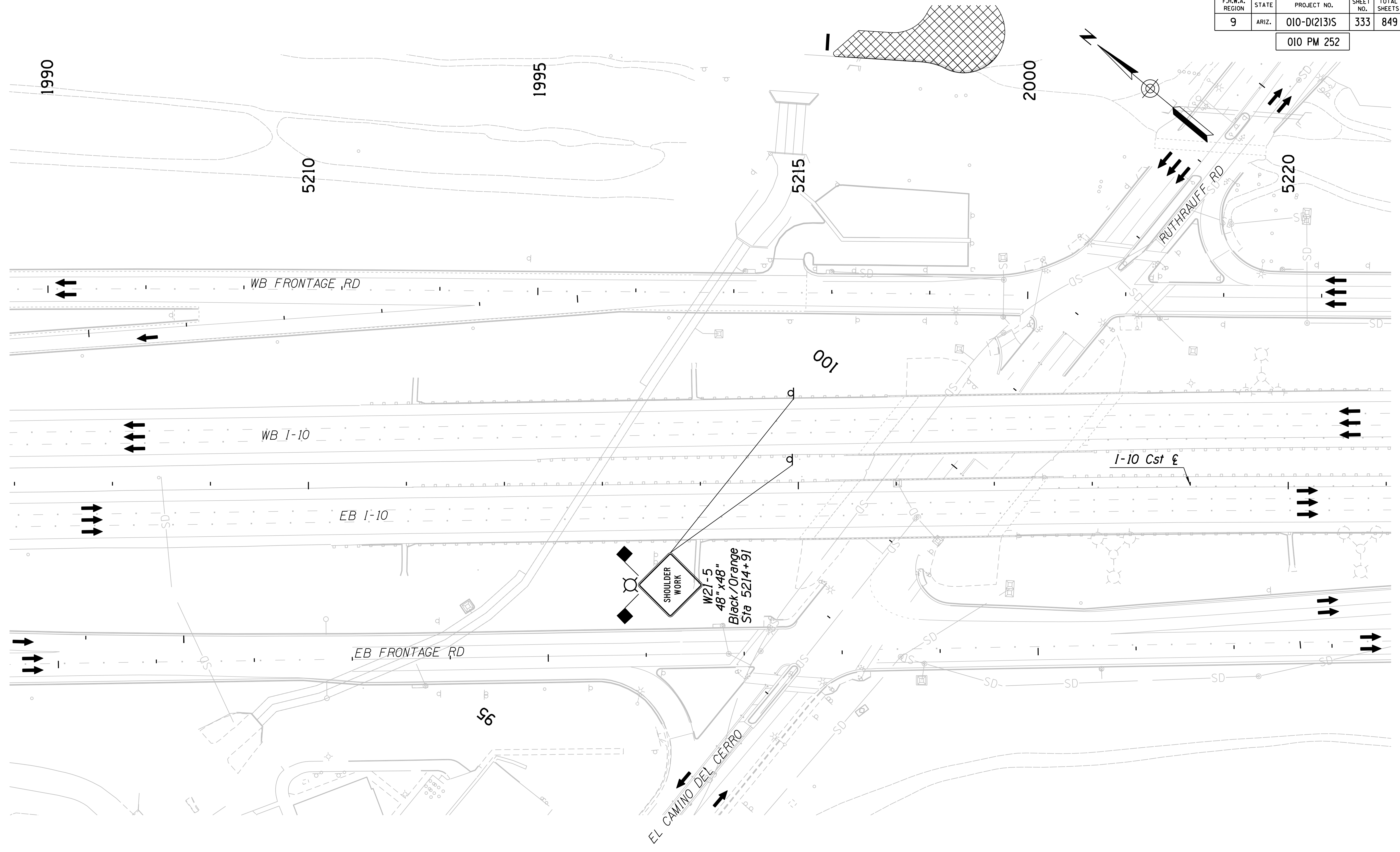
Notes:  
 1. All Stations & Offsets are to the I-10 Cst ̵ Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5193+00 to 5207+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.09	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF



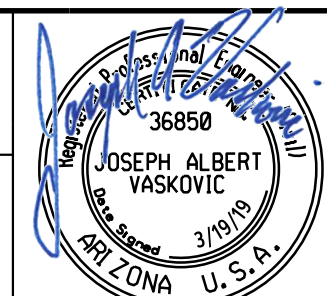
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	333	849	

010 PM 252



Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>TRAFFIC DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5207+00 to 5221+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5207+00 to 5221+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

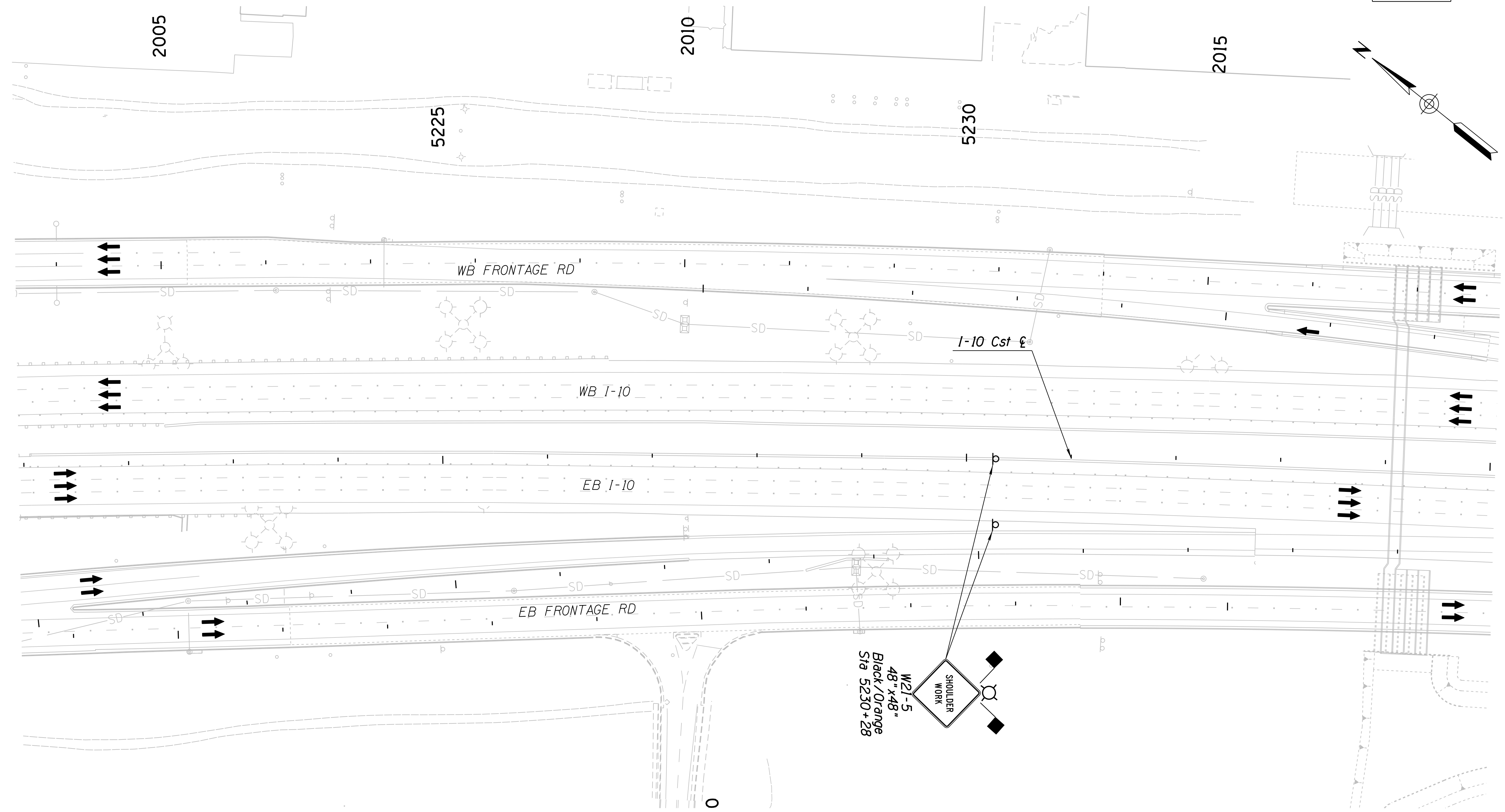


EXPIRES 09/30/2019  
DWG NO. T-2.10

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-D(213)S	334	849	

010 PM 252



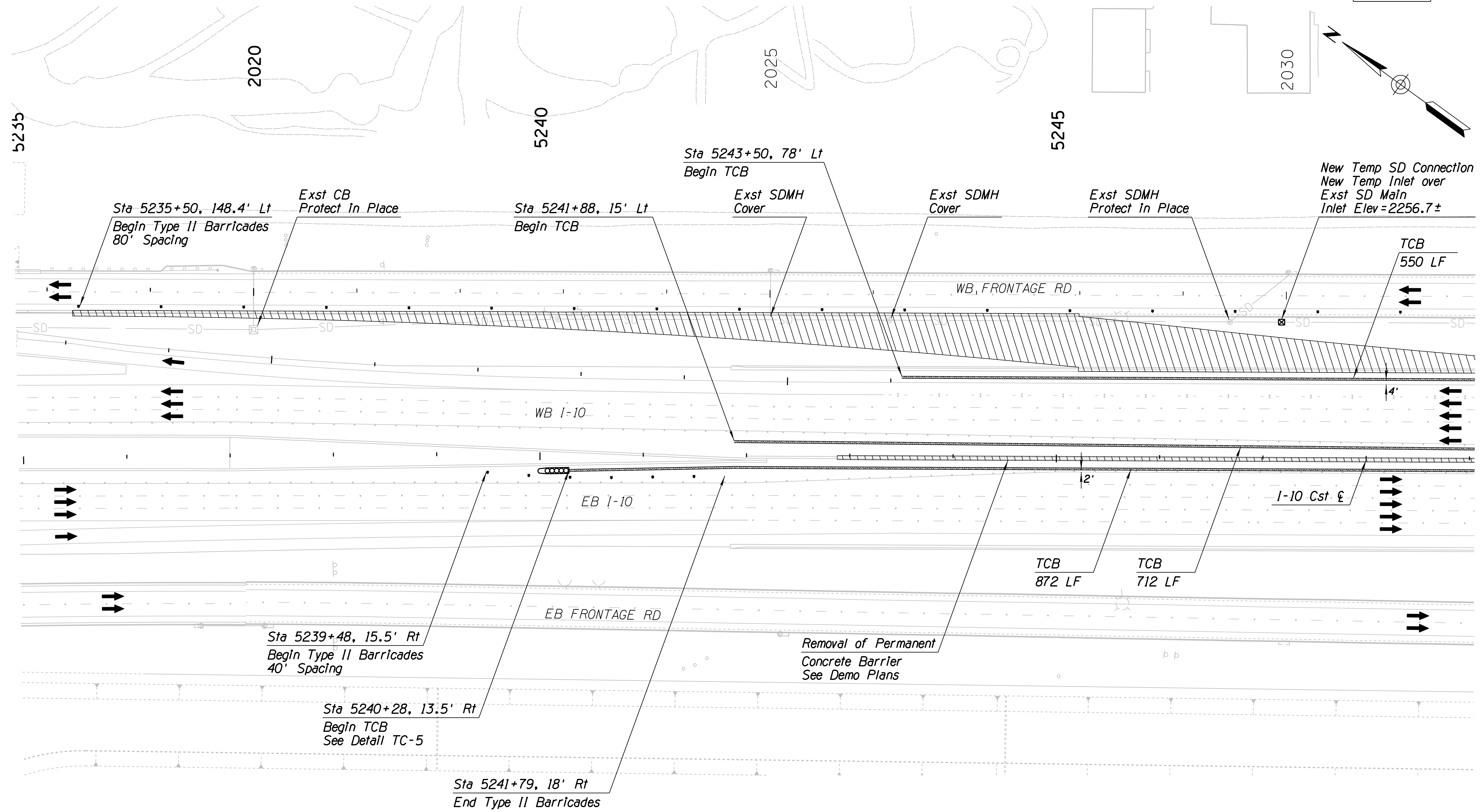
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5221+00 to 5235+00</b>	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
ROUTE		LOCATION		RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC 010-D(213)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-D(213)S	335	849	

010 PM 252



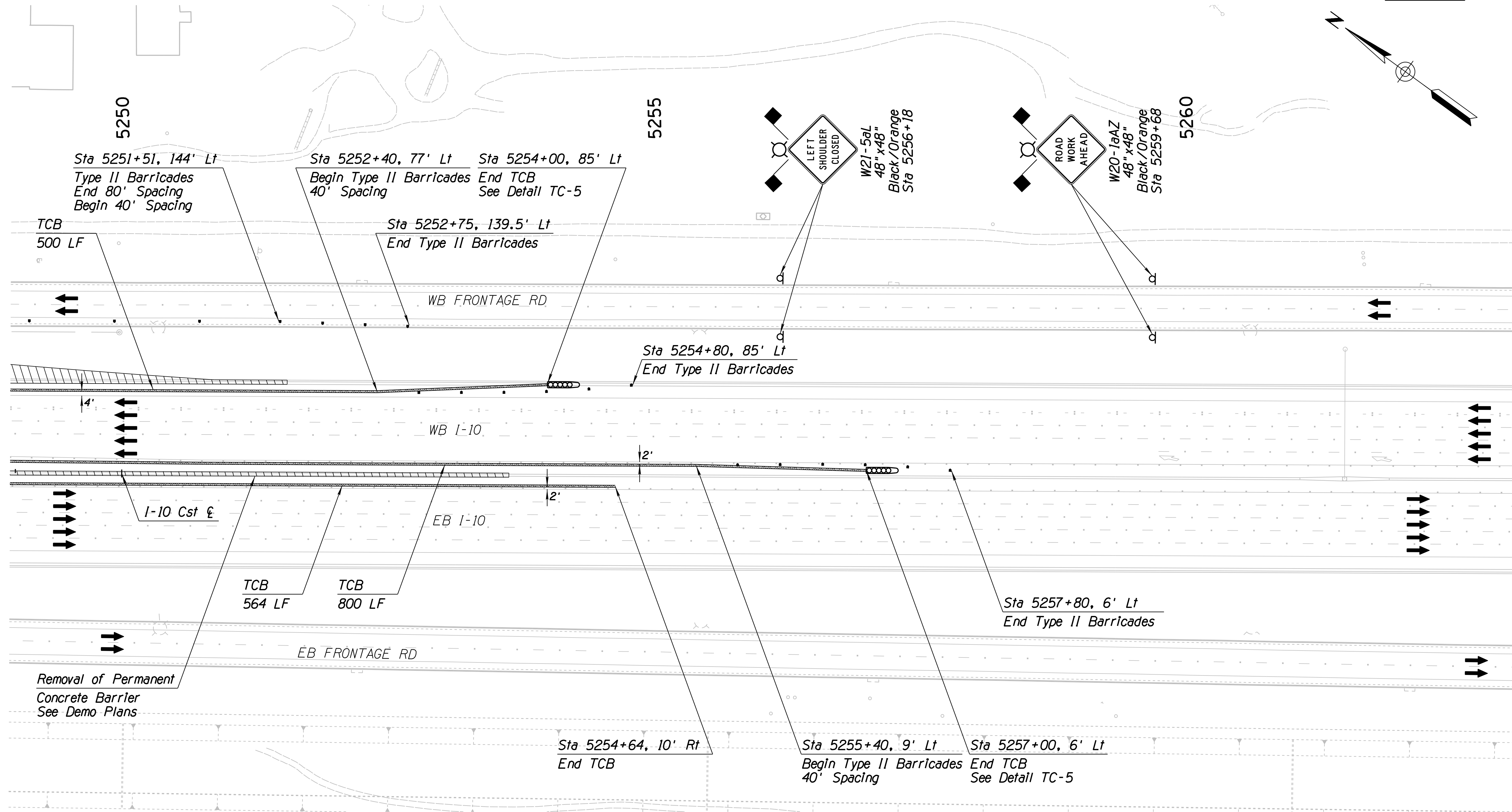
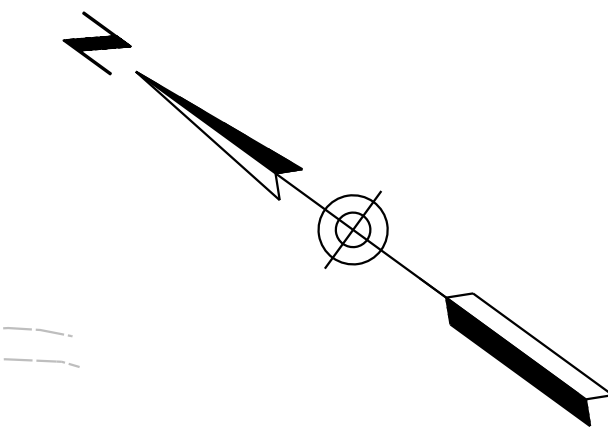
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b>		
DESIGN	JV	DATE	3-19	<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5235+00 to 5249+00</b>		
DRAWN	CPG	DATE	3-19	ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.12
CHECKED	JJK	DATE	3-19	TRACS NO. H 8480 OIC		
				010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	336	849	

010 PM 252



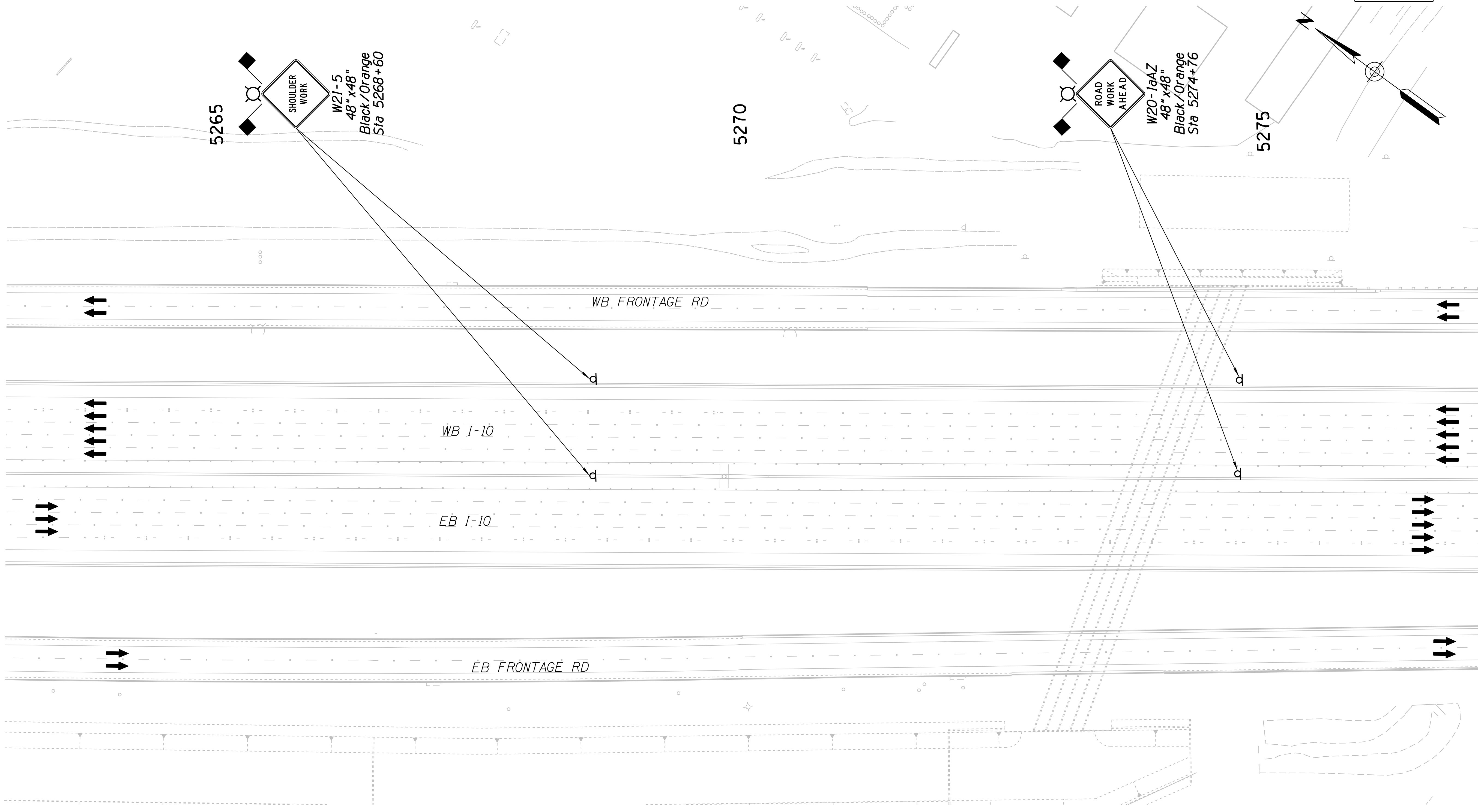
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>TRAFFIC DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.13	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	337	849	

010 PM 252



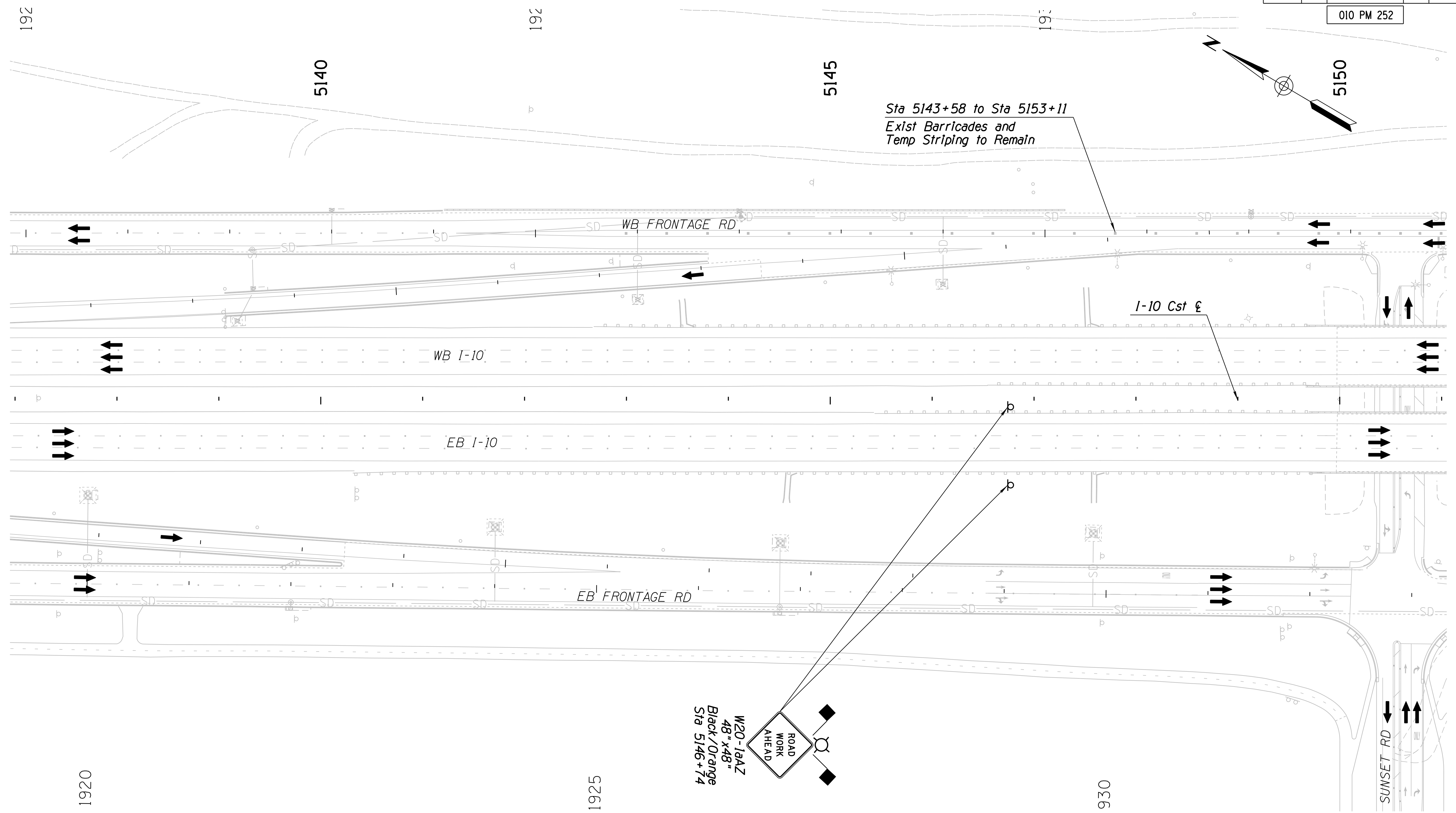
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1A</b> <b>Sta 5263+00 to 5277+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,14	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	010-D(213)S		OF	

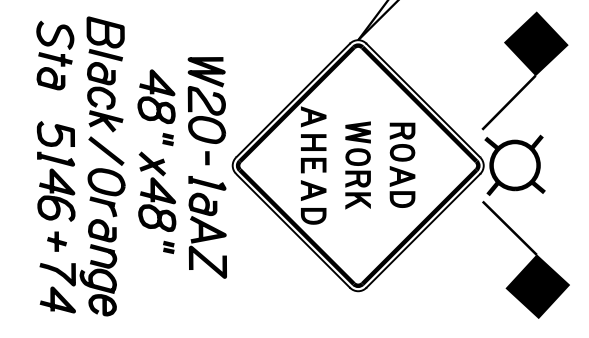
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	338	849	

010 PM 252



Sta 5143+58 to Sta 5153+11  
Exist Barricades and  
Temp Striping to Remain

I-10 Cst &



Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

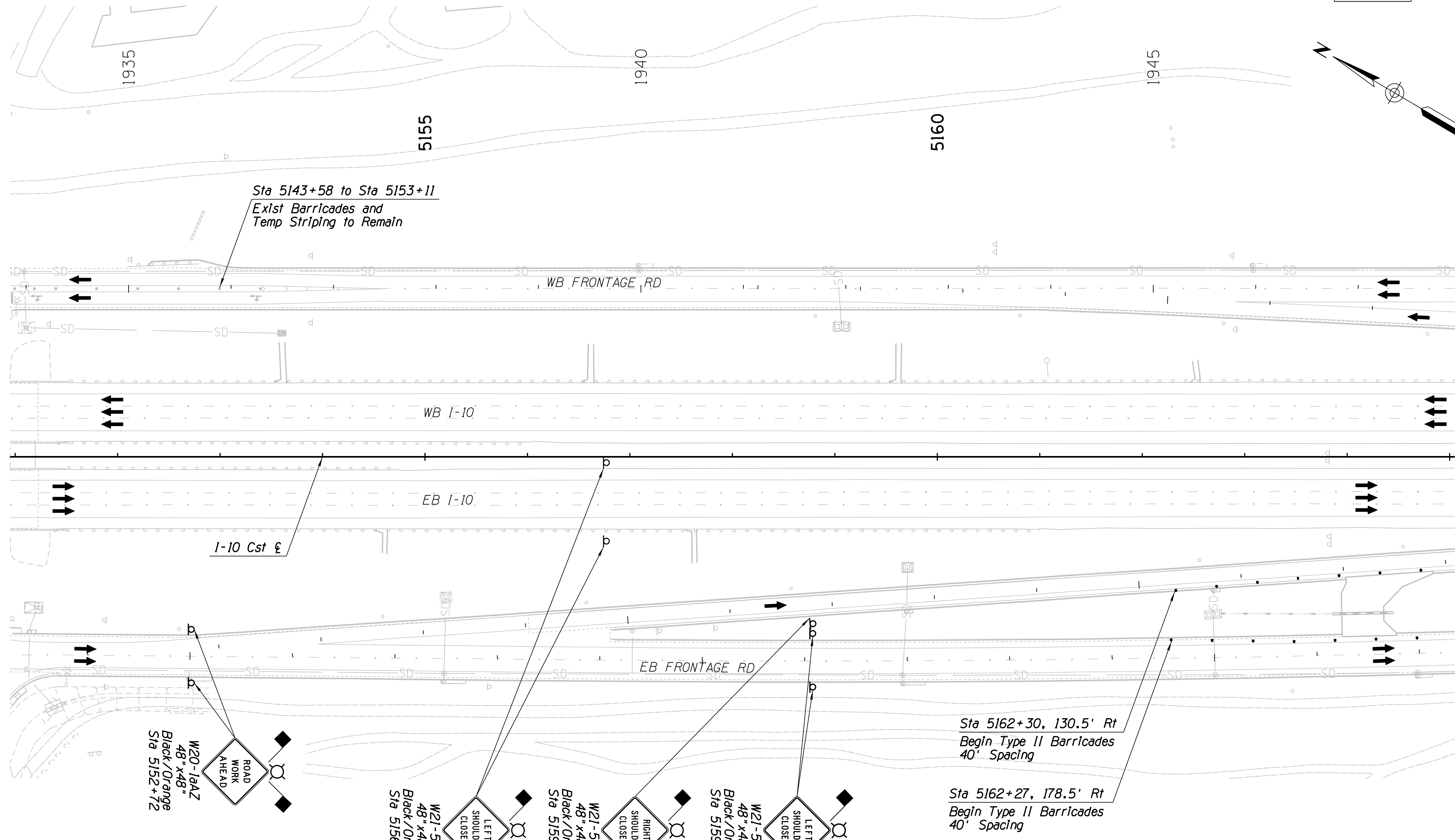
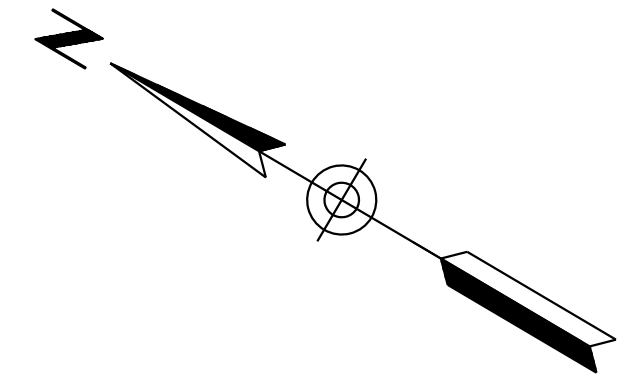
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>		<b>TRAFFIC CONTROL PLAN PHASE 1B Sta 5137+00 to 5151+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		OF

EXPIRES 09/30/2019  
DWG NO. T-2.15

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	339	849	

010 PM 252



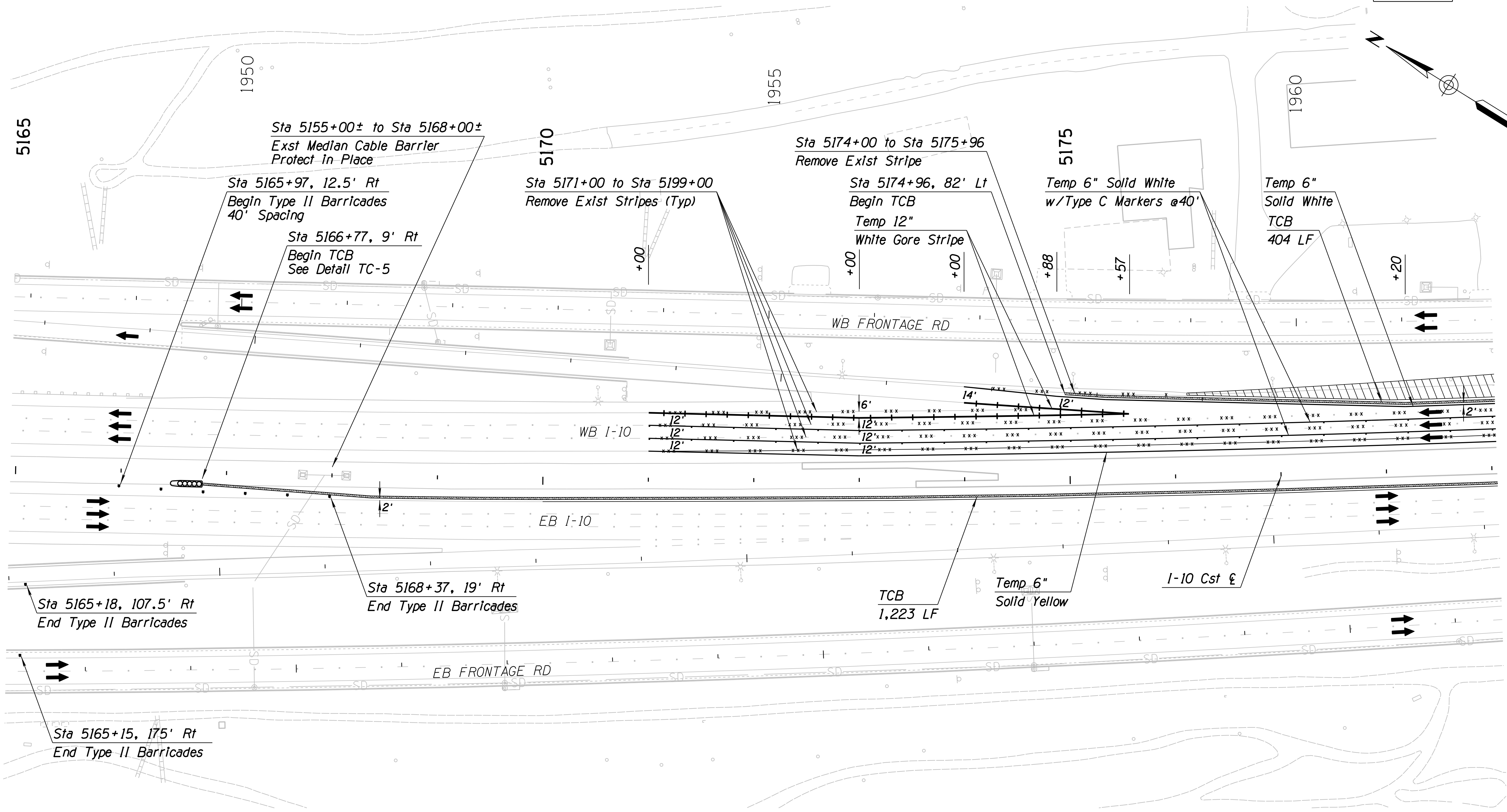
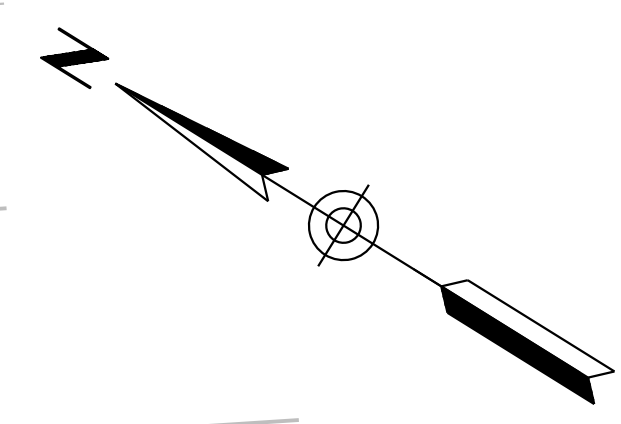
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> <b>Sta 5151+00 to 5165+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		EXPIRES 09/30/2019
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. T-2.16	

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	340	849	

010 PM 252



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

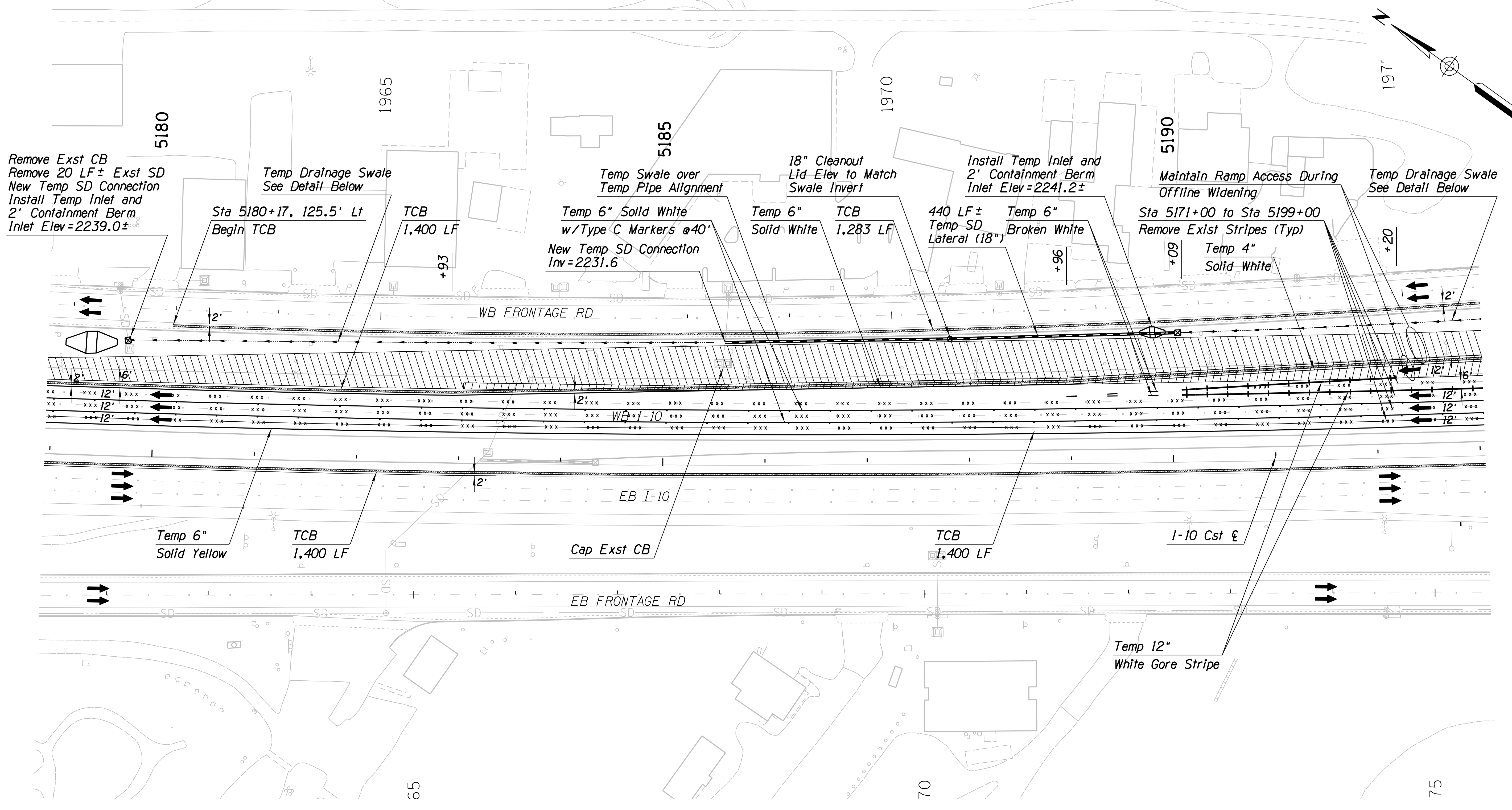
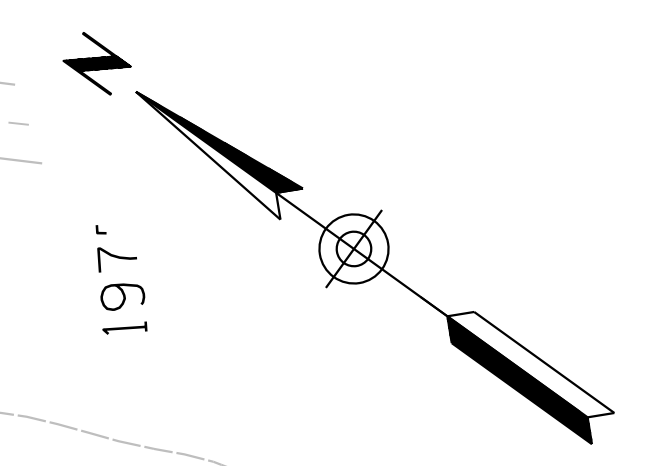
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DESIGN	JV	DATE	3-19	TRAFFIC CONTROL PLAN PHASE 1B Sta 5165+00 to 5179+00		
DRAWN	CPG	DATE	3-19	ROUTE 1-10 LOCATION RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.17
CHECKED	JJK	DATE	3-19	TRACS NO. H 8480 OIC		
				PROJECT NO. 010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	341	849	

010 PM 252



Remove Exst CB  
Remove 20 LF± Exst SD  
New Temp SD Connection  
Install Temp Inlet and  
2' Containment Berm  
Inlet Elev = 2239.0±

Temp Drainage Swale  
See Detail Below  
Sta 5180+17, 125.5' Lt  
Begin TCB

Temp Swale over  
Temp Pipe Alignment  
Temp 6" Solid White  
w/Type C Markers @40'  
New Temp SD Connection  
Inv = 2231.6

18" Cleanout  
Lid Elev to Match  
Swale Invert

Install Temp Inlet and  
2' Containment Berm  
Inlet Elev = 2241.2±

Maintain Ramp Access During  
Offline Widening  
Sta 5171+00 to Sta 5199+00  
Remove Exst Stripes (Typ)  
Temp 4" Solid White

Temp Drainage Swale  
See Detail Below

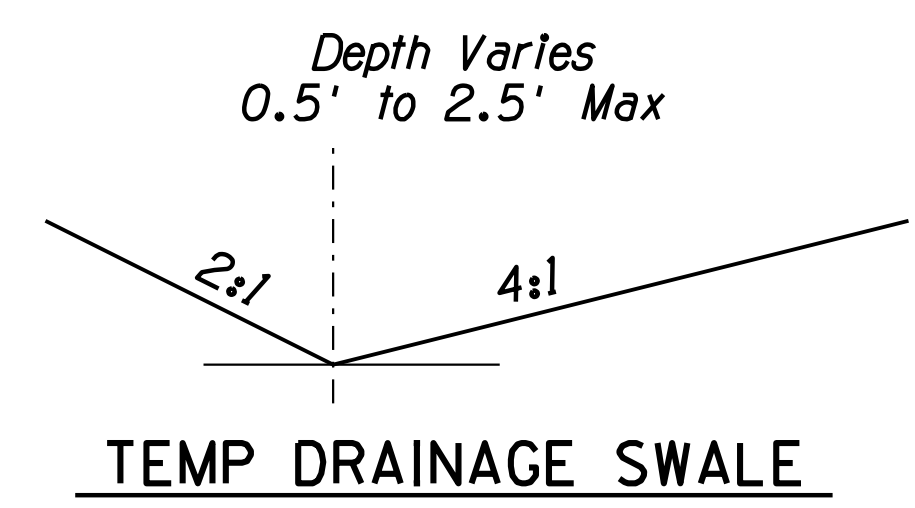
Temp 6" Solid Yellow  
TCB 1,400 LF

Cap Exst CB

TCB 1,400 LF

I-10 Cst &

Temp 12" White Gore Stripe

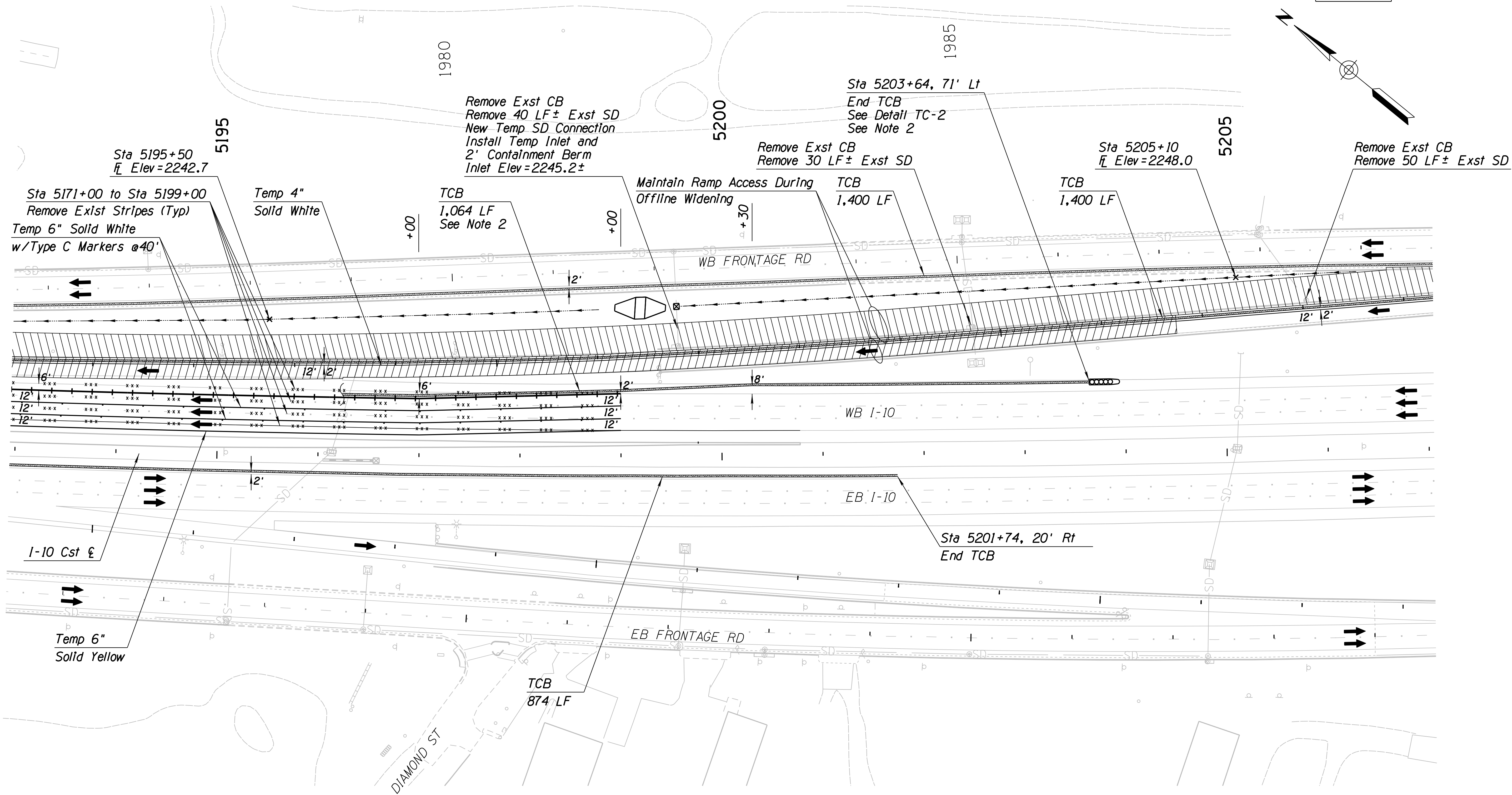
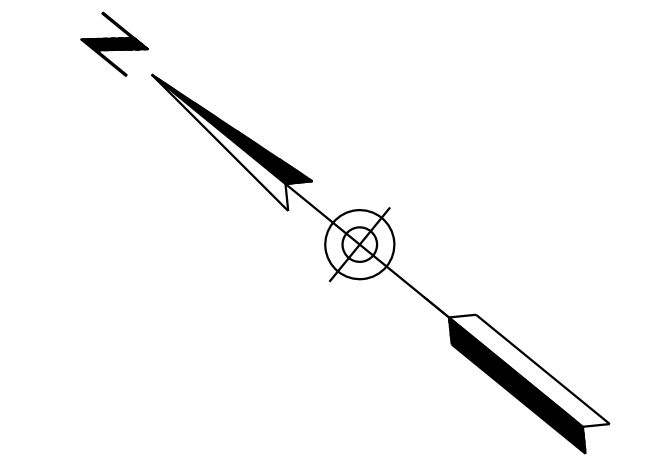


Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 1B Sta 5179+00 to 5193+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. T-2.18 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	342	849	

010 PM 252



**Notes:**

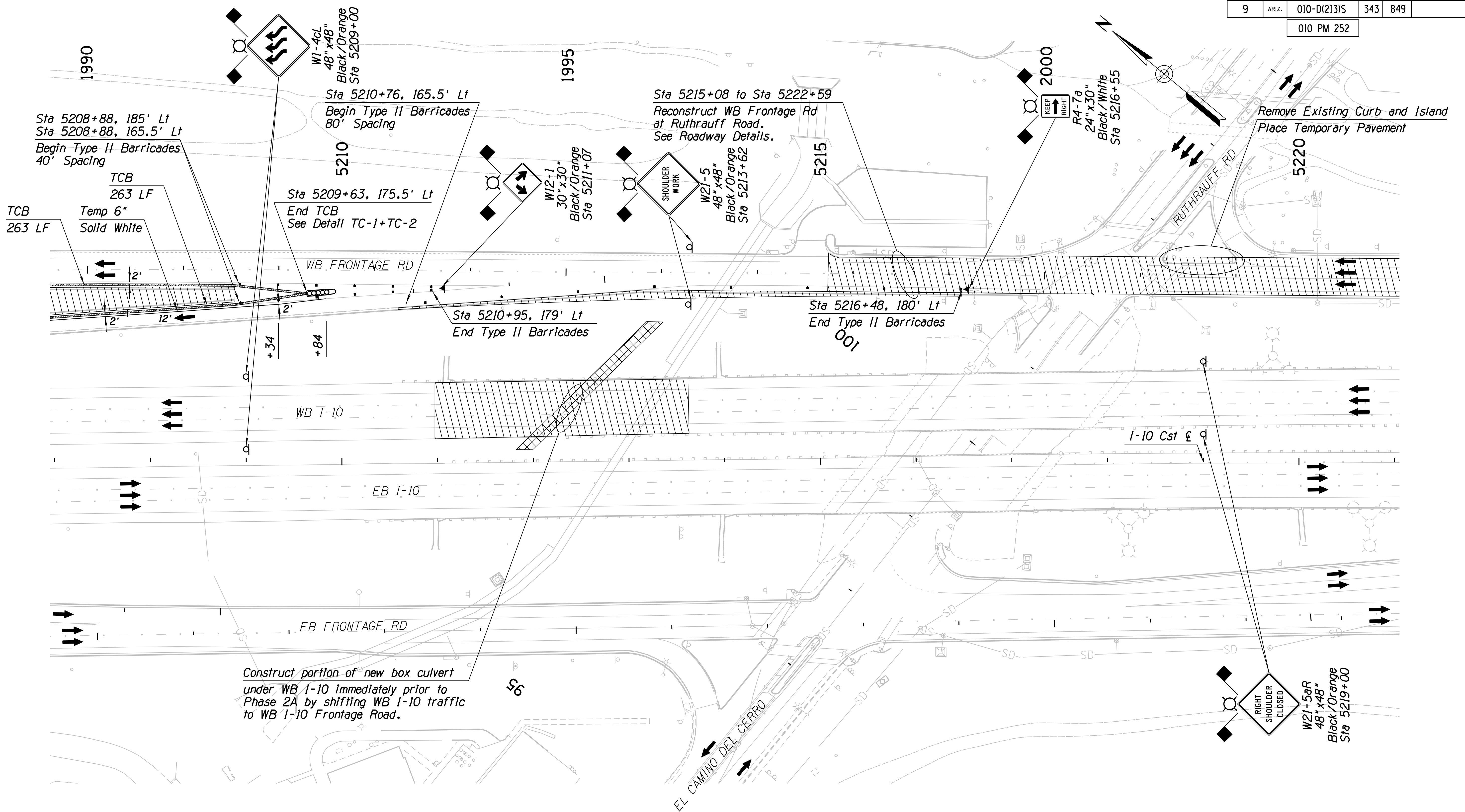
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.
2. Use TCB during ramp reconstruction. Connect to TCB at beginning of taper at Sta 5182+93, maintain minimum 2' offset from edge stripe.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> Sta 5193+00 to 5207+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.19	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	343	849	

010 PM 252



Construct portion of new box culvert under WB I-10 immediately prior to Phase 2A by shifting WB I-10 traffic to WB I-10 Frontage Road.

Sta 5215+08 to Sta 5222+59  
Reconstruct WB Frontage Rd at Ruthrauff Road.  
See Roadway Details.

Sta 5208+88, 185' Lt  
Sta 5208+88, 165.5' Lt  
Begin Type II Barricades  
40' Spacing

Sta 5210+76, 165.5' Lt  
Begin Type II Barricades  
80' Spacing

Sta 5209+63, 175.5' Lt  
End TCB  
See Detail TC-1+TC-2

Sta 5210+95, 179' Lt  
End Type II Barricades

Sta 5216+48, 180' Lt  
End Type II Barricades

Remove Existing Curb and Island  
Place Temporary Pavement

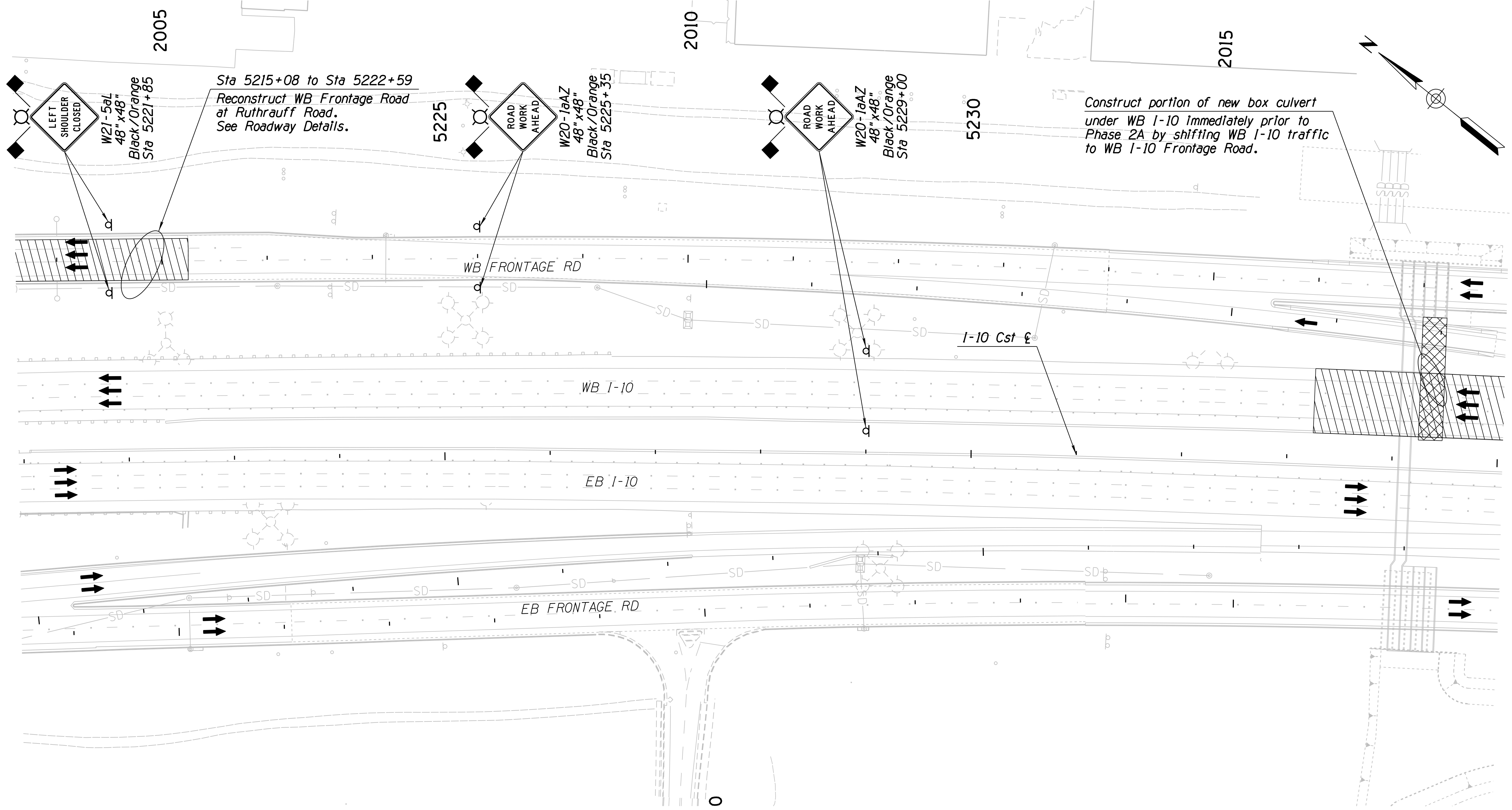
Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 1B Sta 5207+00 to 5221+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.20	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

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-D(213)S	344	849	

010 PM 252



**Notes:**

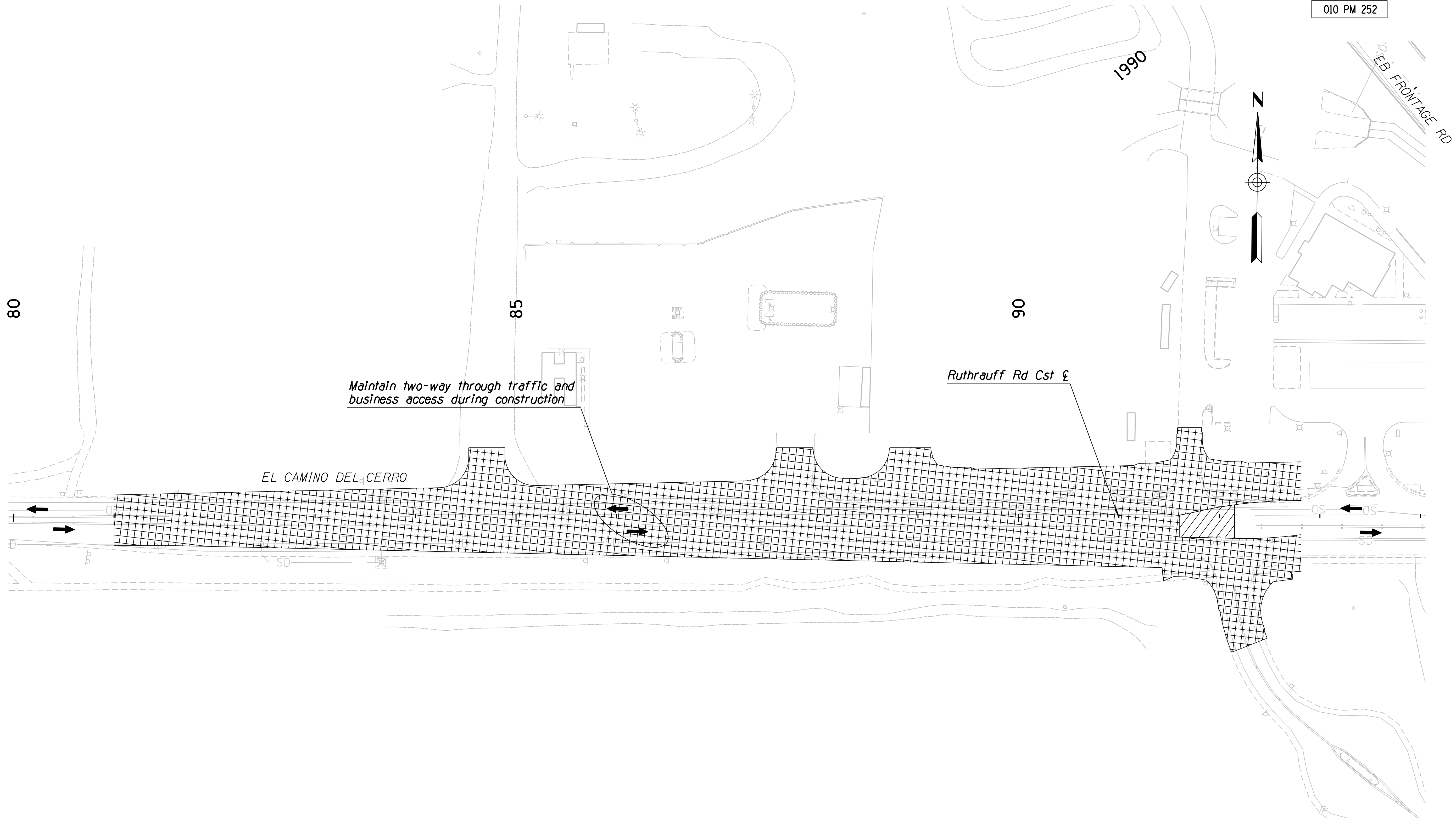
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> <b>Sta 5221+00 to 5235+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.21	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		
			OF		

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE REVISIONS 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-D(213)S	345	849	

010 PM 252



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

Maintain two-way through traffic and business access during construction

Ruthrauff Rd Cst

EL CAMINO DEL CERRO

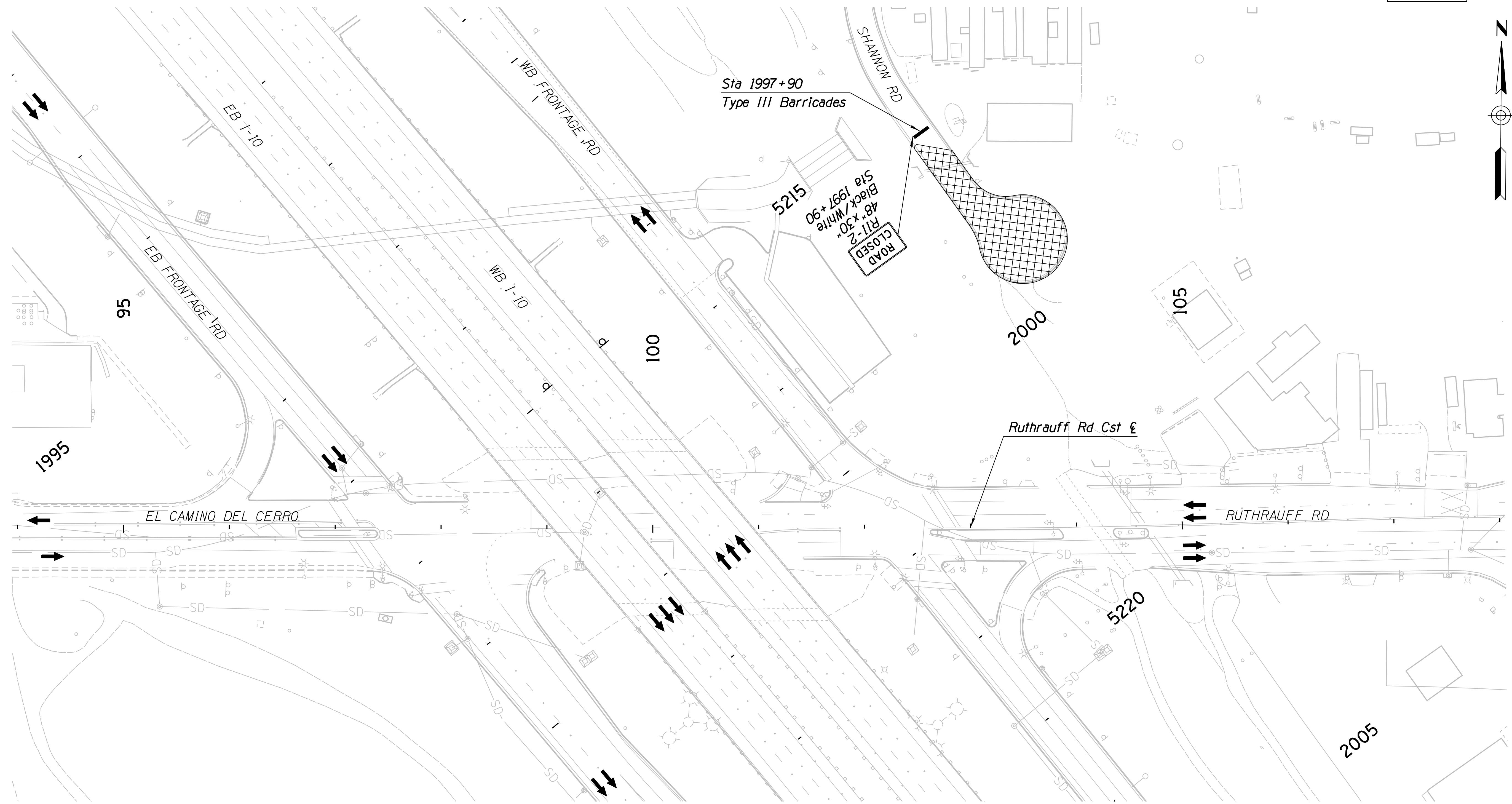
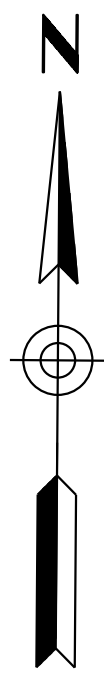
EB FRONTAGE RD

Notes:  
 1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> <b>STA 80+00 to 94+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.22	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	346	849	

010 PM 252



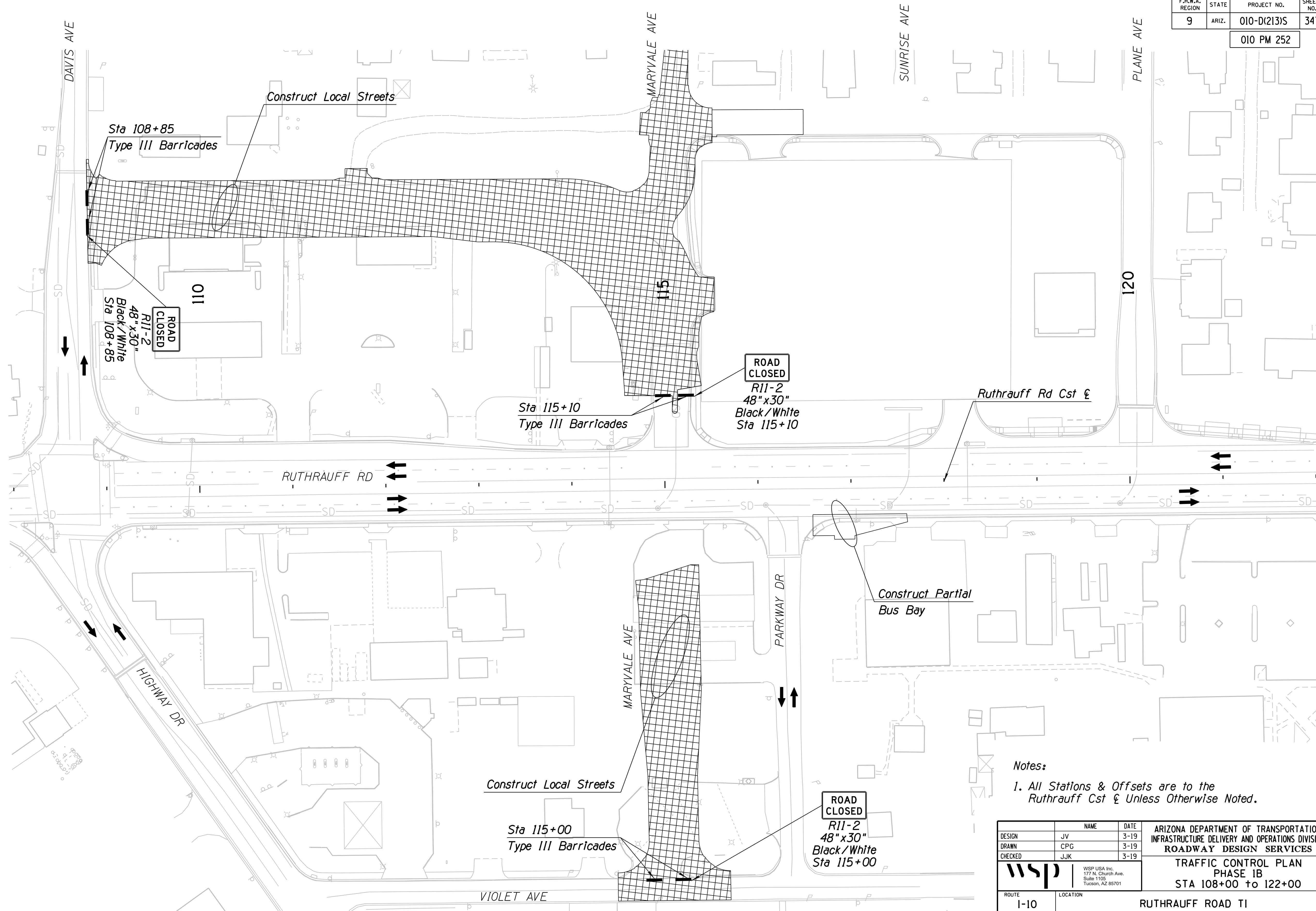
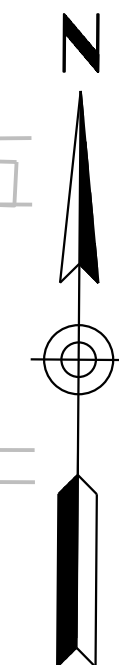
REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION-

**Notes:**  
1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> <b>STA 94+00 to 108+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-2.23 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	347	849	

010 PM 252



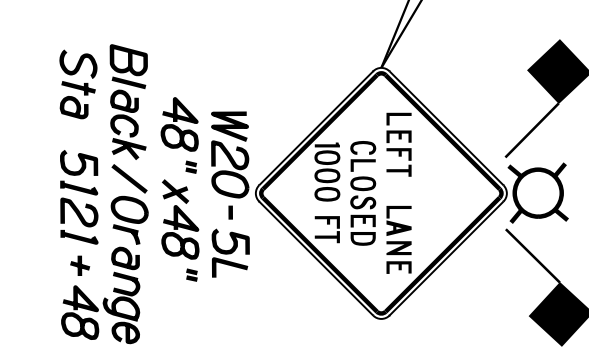
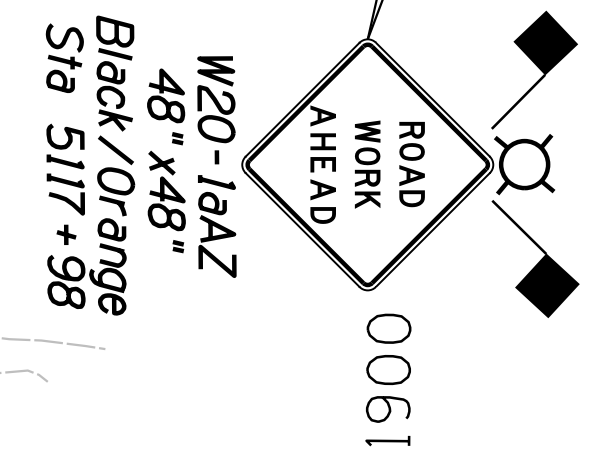
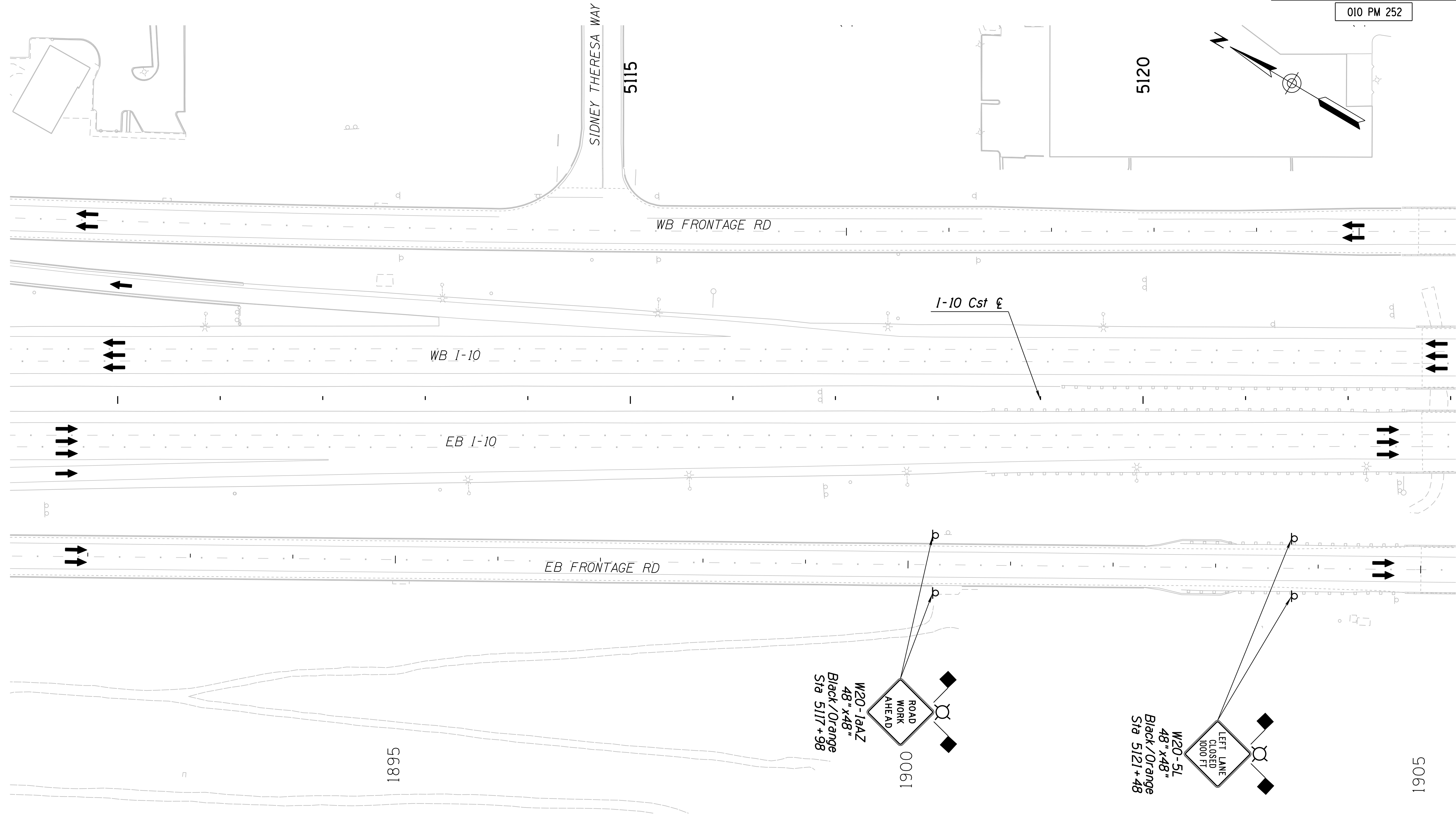
Notes:  
1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 1B</b> <b>STA 108+00 to 122+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC      PROJECT NO. 010-D(213)S      DWG NO. T-224      OF	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	348	849	

010 PM 252



Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

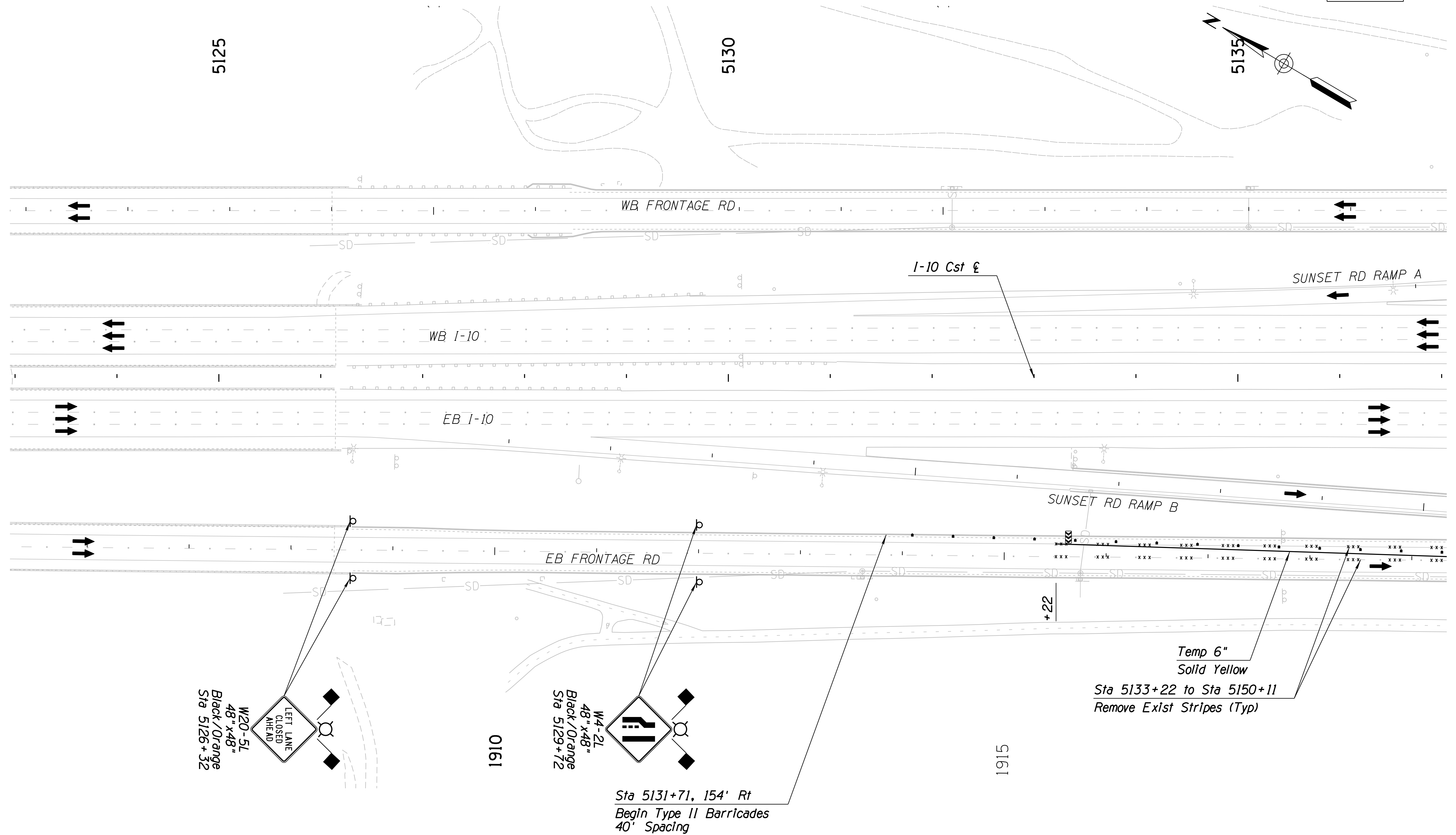
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2A</b> <b>Sta 5109+00 to 5123+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,25	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C		010-D(213)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-D(213)S	349	849	

010 PM 252



W20-5L  
48" x 48"  
Black/Orange  
Sta 5126+32

W4-2L  
48" x 48"  
Black/Orange  
Sta 5129+72

Sta 5131+71, 154' Rt  
Begin Type II Barricades  
40' Spacing

Temp 6"  
Solid Yellow  
Sta 5133+22 to Sta 5150+11  
Remove Exist Stripes (Typ)

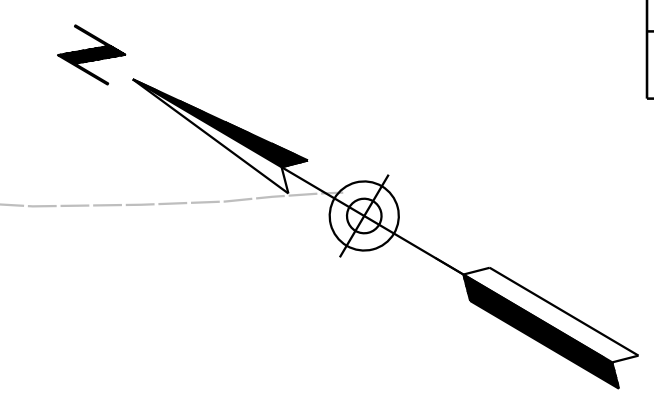
Notes:  
1. All Stations & Offsets are to the  
I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2A</b> <b>Sta 5123+00 to 5137+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,26	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	

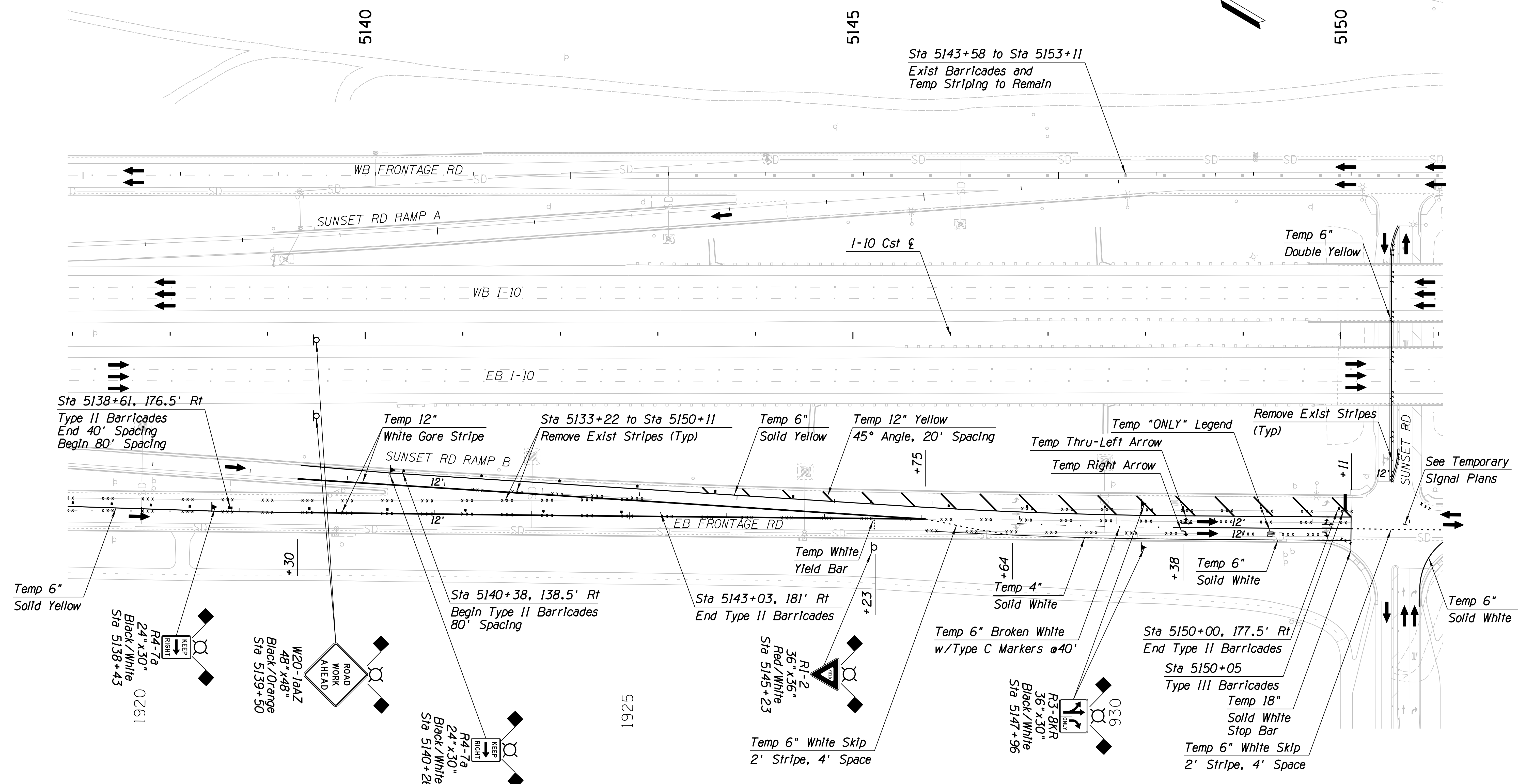
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	350	849	

010 PM 252



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



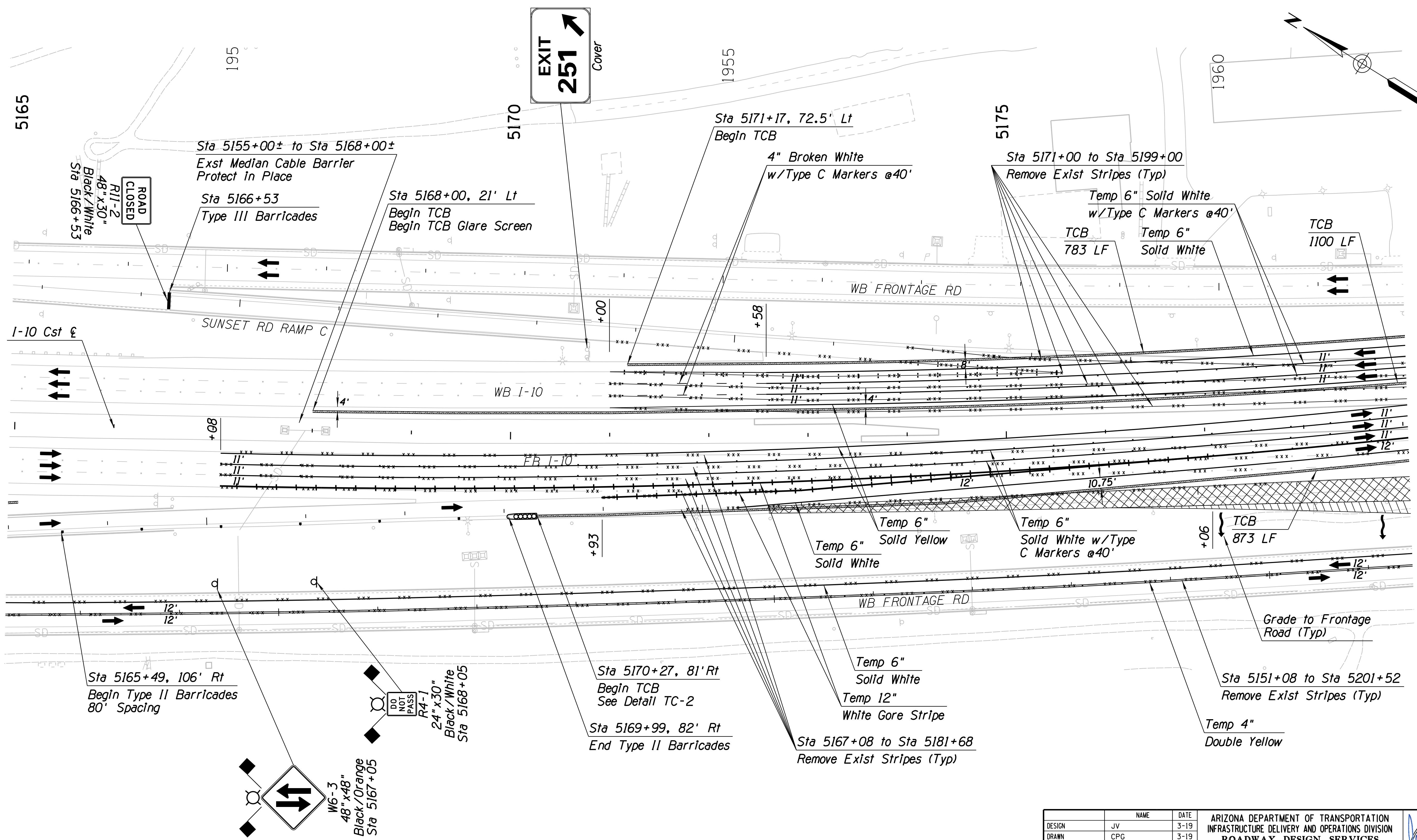
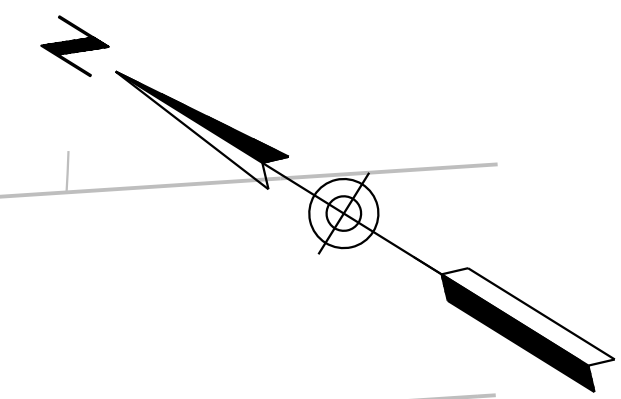
**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> PHASE 2A Sta 5137+00 to 5151+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.27	
ROUTE	LOCATION		I-10 RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

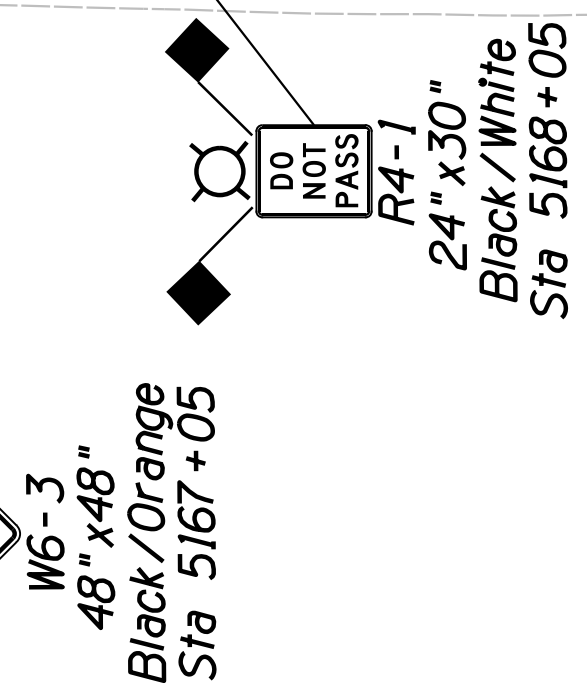


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	352	849	

010 PM 252



Sta 5165+49, 106' Rt  
Begin Type II Barricades  
80' Spacing



Sta 5170+27, 81' Rt  
Begin TCB  
See Detail TC-2

Sta 5169+99, 82' Rt  
End Type II Barricades

Temp 6" Solid Yellow  
Temp 6" Solid White

Temp 6" Solid White  
Temp 12" White Gore Stripe

Sta 5167+08 to Sta 5181+68  
Remove Exist Striping (Typ)

Sta 5171+00 to Sta 5199+00  
Remove Exist Striping (Typ)

Temp 6" Solid White  
w/Type C Markers @40'

TCB 783 LF

Temp 6" Solid White

TCB 873 LF

Grade to Frontage Road (Typ)

Sta 5151+08 to Sta 5201+52  
Remove Exist Striping (Typ)

Temp 4" Double Yellow

Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

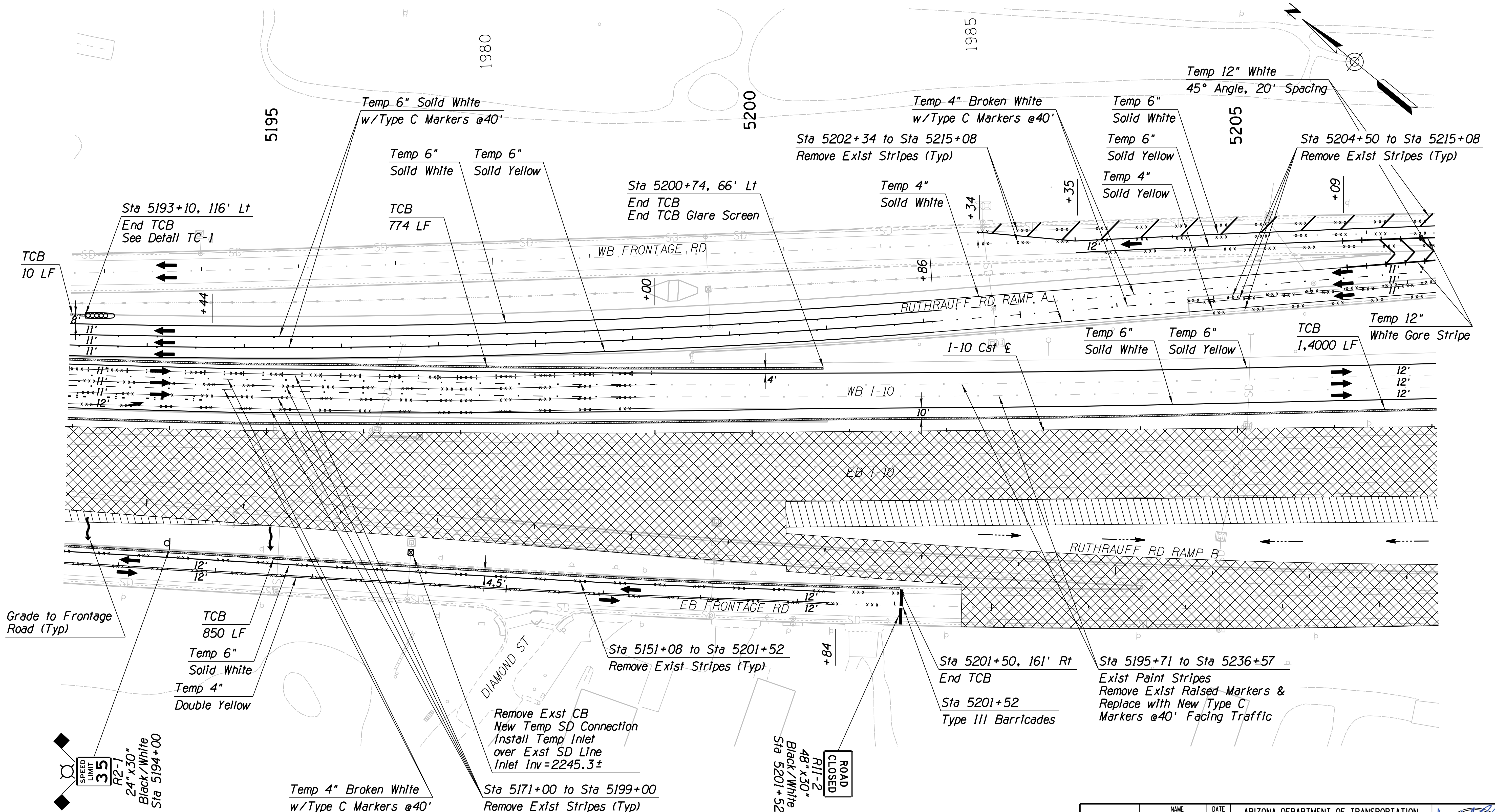
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> PHASE 2A Sta 5165+00 to 5179+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,29	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	354	849	

010 PM 252

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

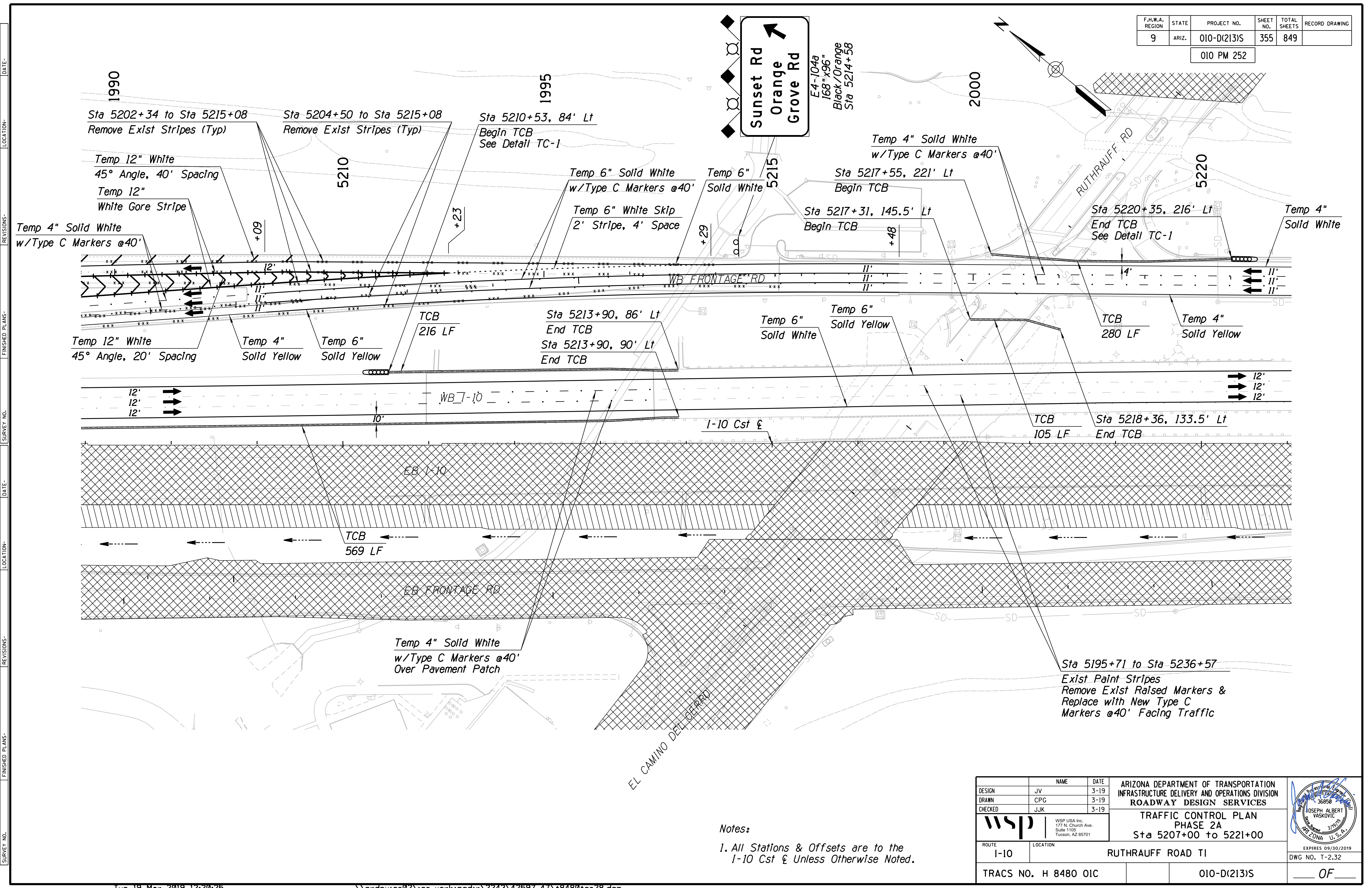


Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2A</b> <b>Sta 5193+00 to 5207+00</b>
DRAWN	JV	3-19	
CHECKED	CPG	3-19	
 WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			 JOSEPH ALBERT VASKOVIC 36850 STATE OF ARIZONA U.S.A. EXPIRES 09/30/2019 DWG NO. T-2.31
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		TRACS NO. H 8480 OIC
			010-D(213)S
			OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	355	849	

010 PM 252



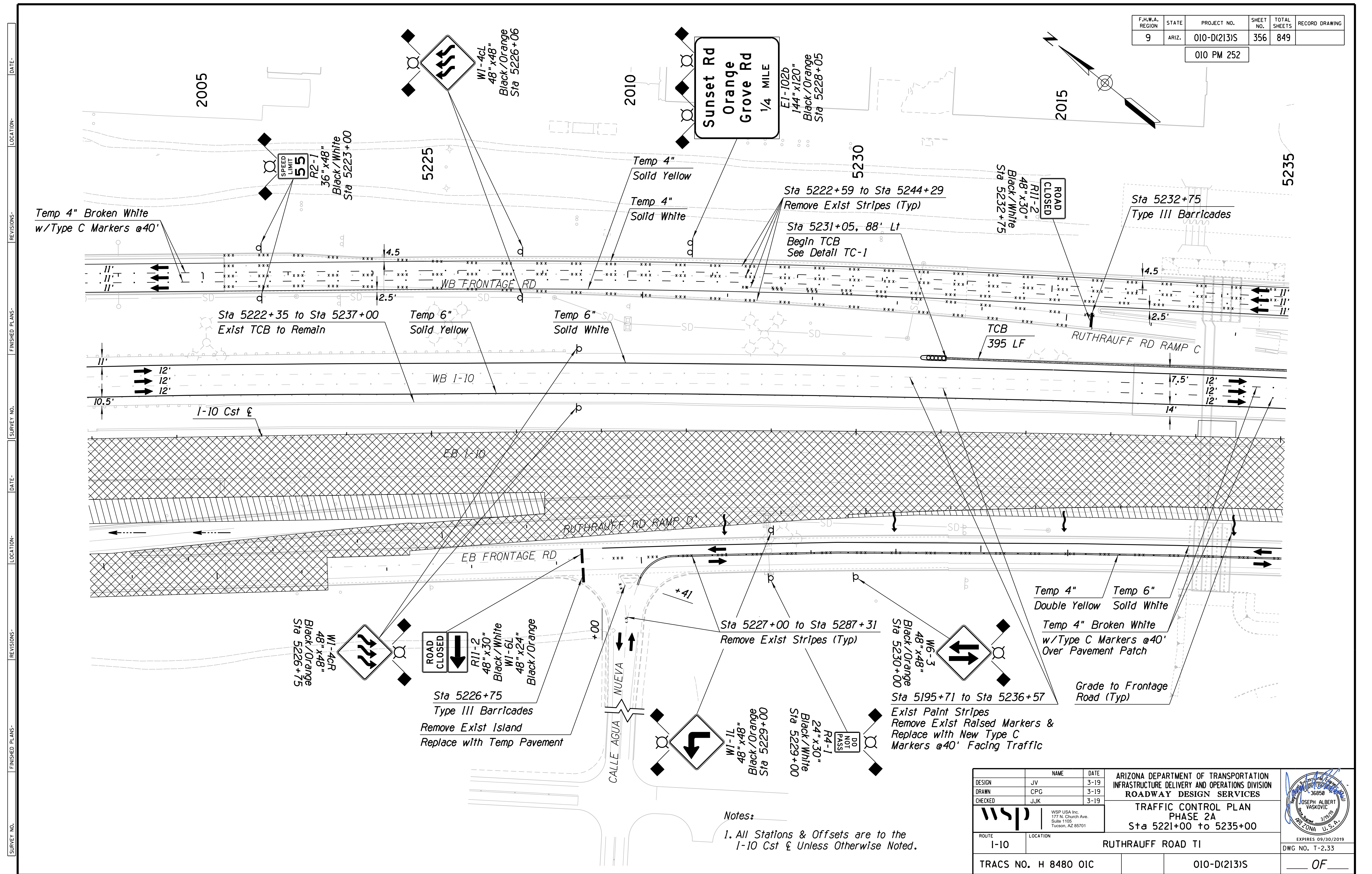
SURVEY NO. FINISHED PLANS. DATE. LOCATION. REVISIONS. DATE. FINISHED PLANS. DATE. SURVEY NO.

**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2A</b> <b>Sta 5207+00 to 5221+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.32	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	356	849	

010 PM 252



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

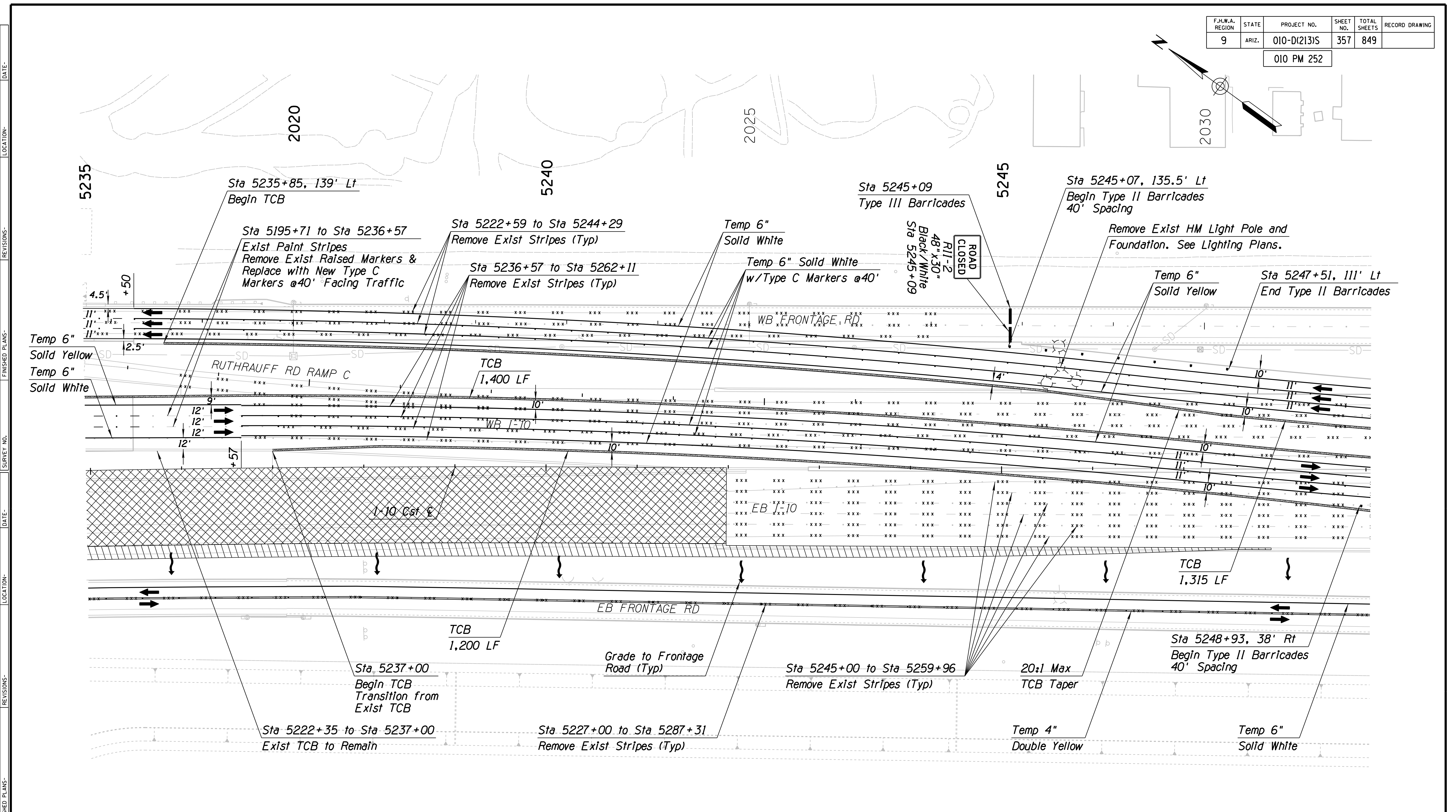
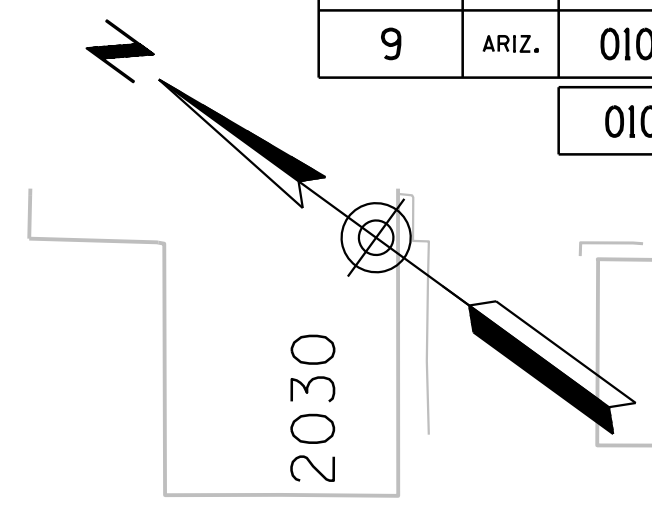
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> PHASE 2A Sta 5221+00 to 5235+00		
DESIGN: JV DRAWN: CPG CHECKED: JJK	NAME: JV DATE: 3-19 DATE: 3-19 DATE: 3-19	ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.33		



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	357	849	

010 PM 252



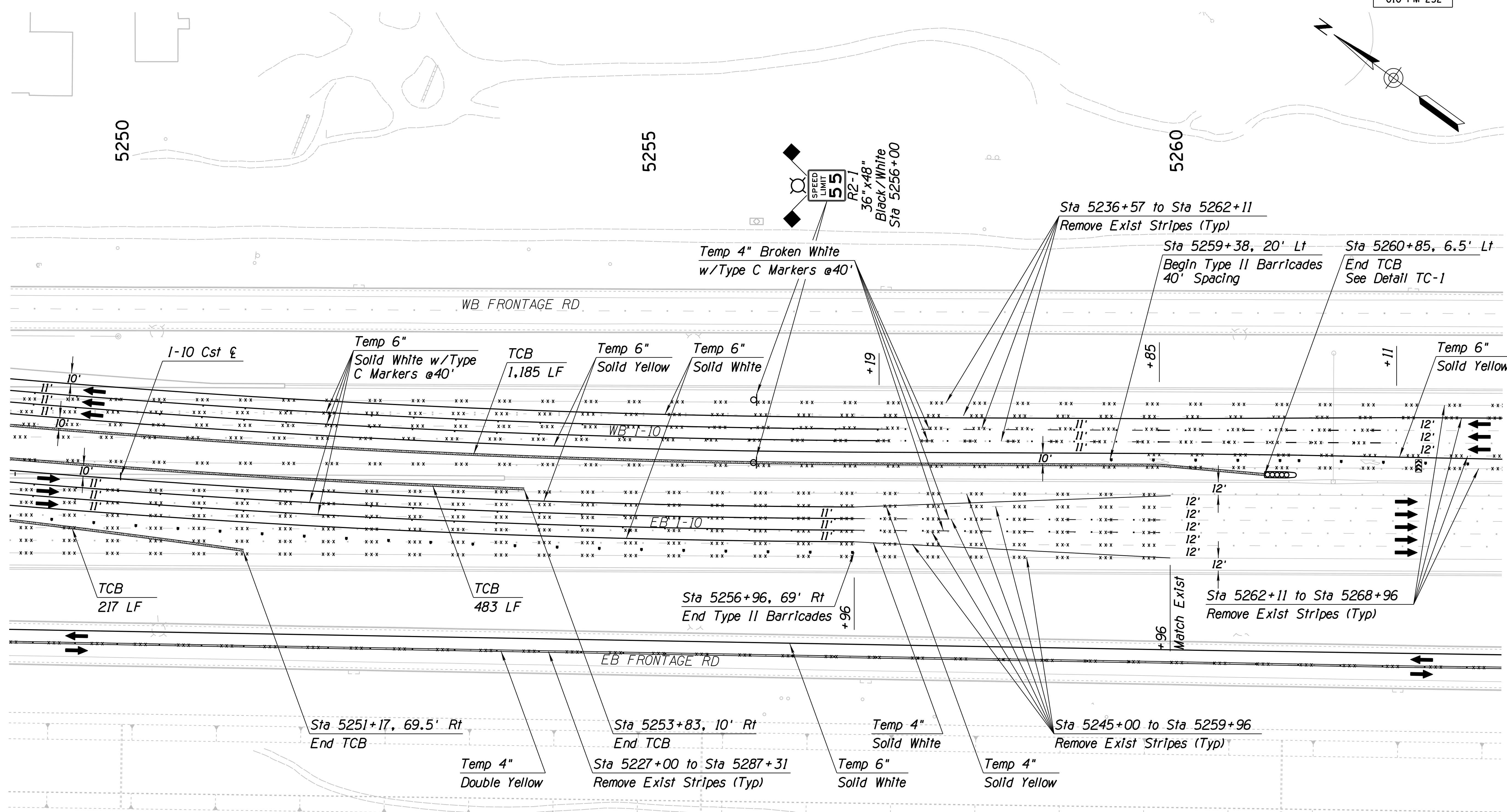
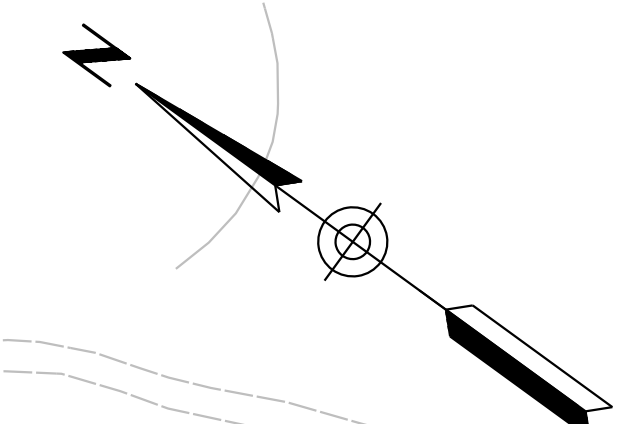
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> PHASE 2A Sta 5235+00 to 5249+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC 010-D(213)S DWG NO. T-2.34 EXPIRES 09/30/2019 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	358	849	

010 PM 252



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

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

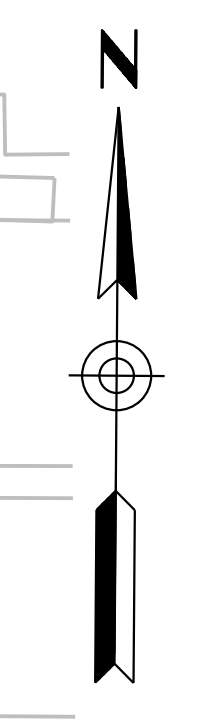
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 2A Sta 5249+00 to 5263+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.35	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
		DATE	OF		



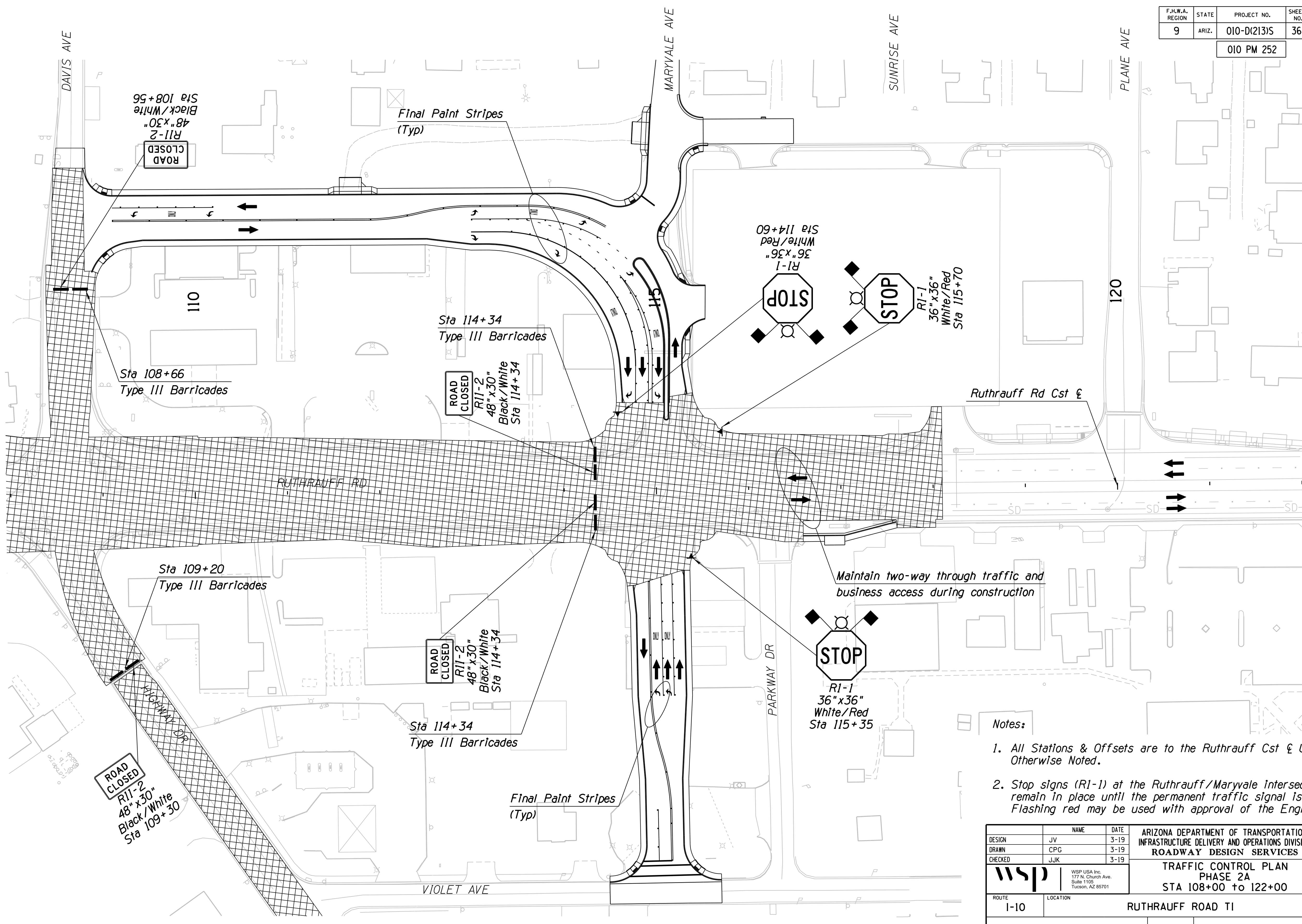


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	361	849	

010 PM 252



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



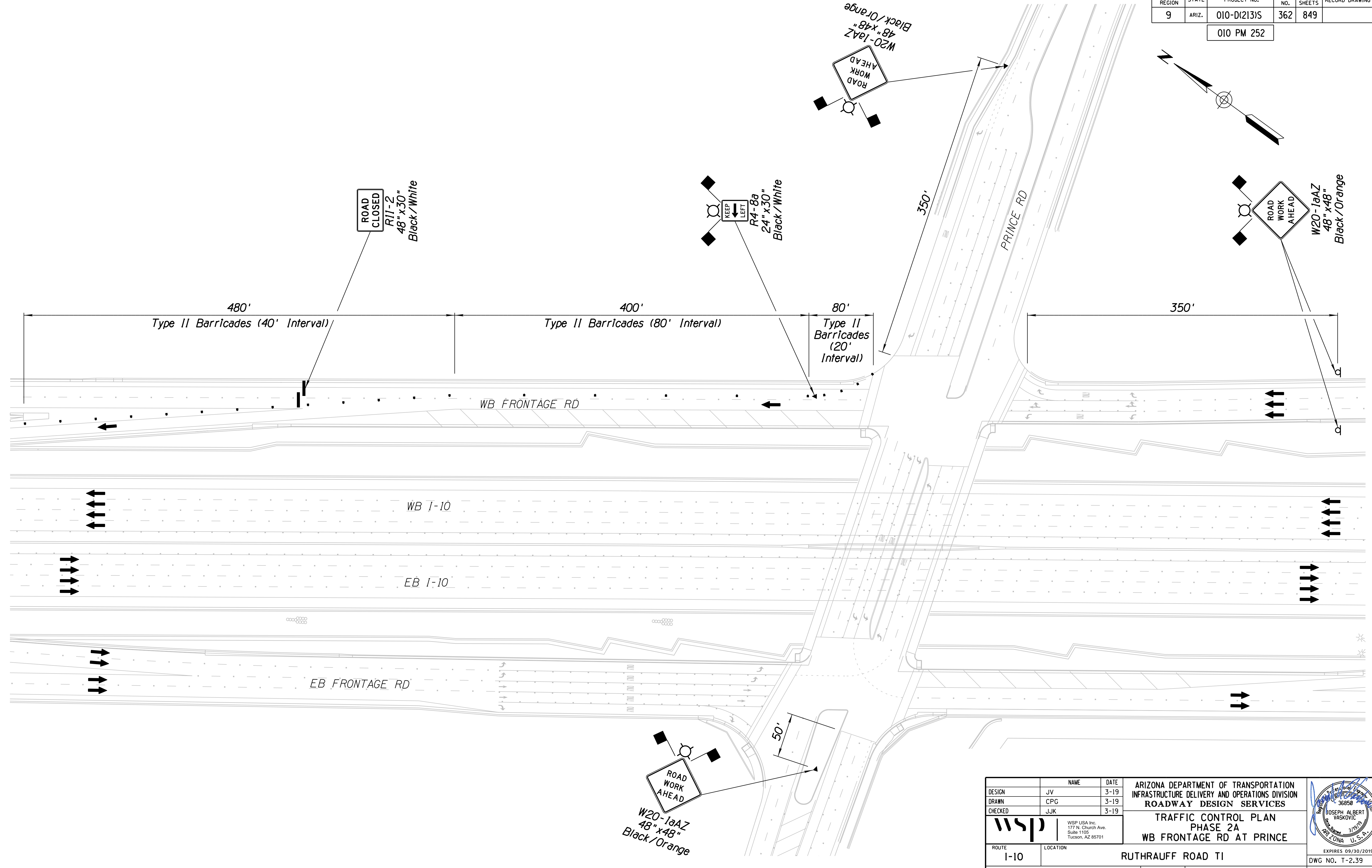
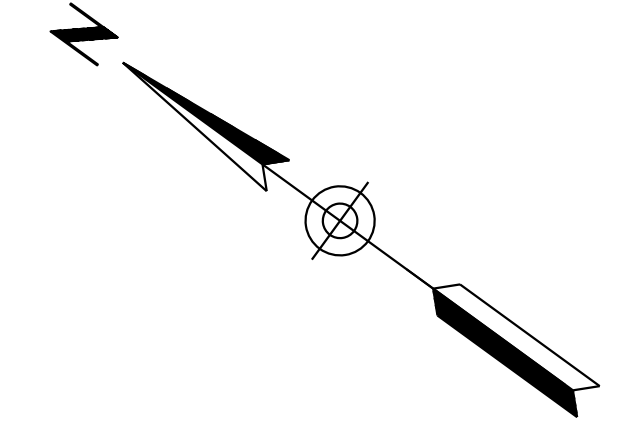
- Notes:
- All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.
  - Stop signs (R1-1) at the Ruthrauff/Maryvale intersection shall remain in place until the permanent traffic signal is operational. Flashing red may be used with approval of the Engineer.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 2A STA 108+00 to 122+00
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2,38 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	362	849	

010 PM 252

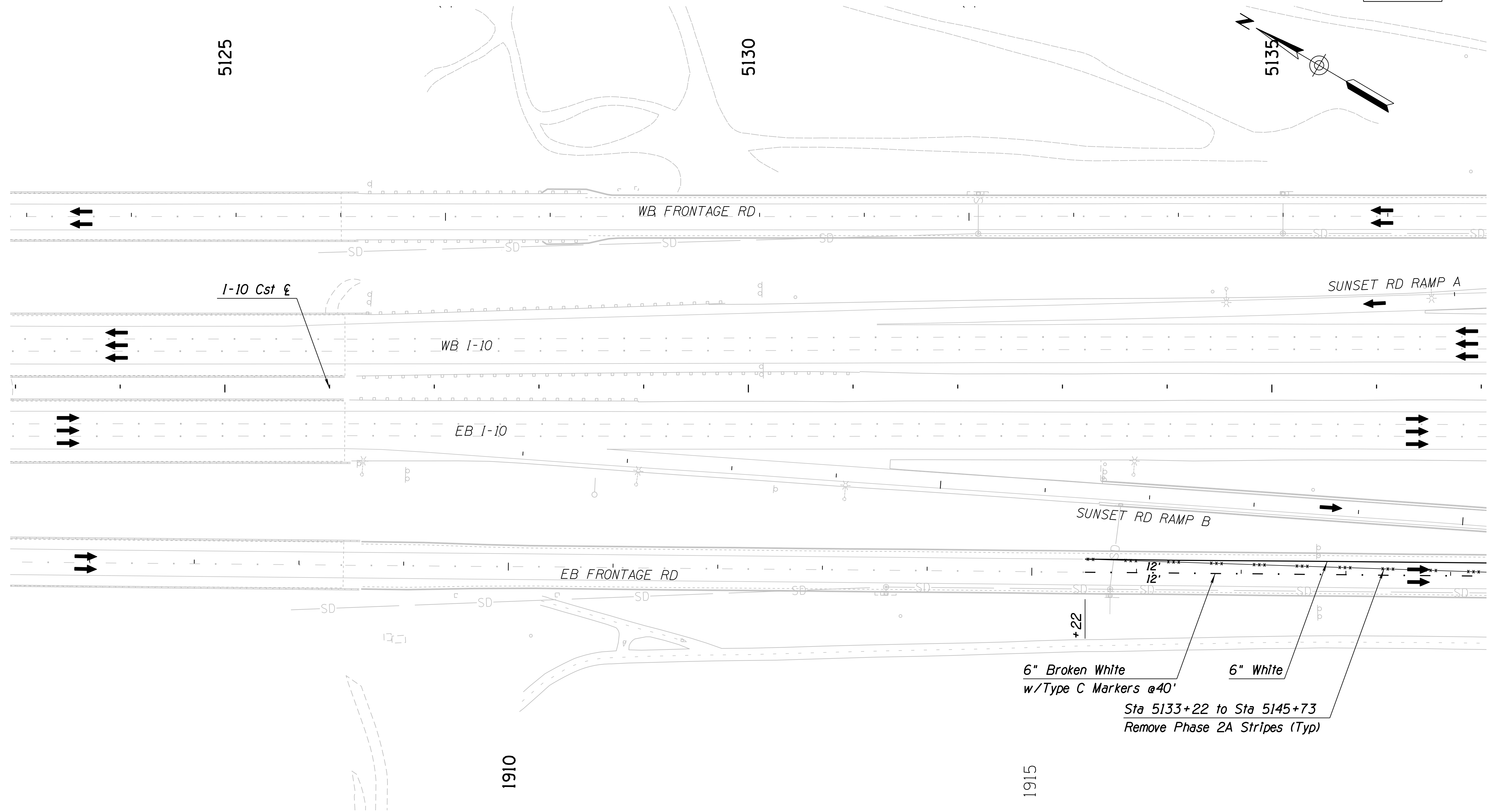


DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2A</b> <b>WB FRONTAGE RD AT PRINCE</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.39	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	363	849	

010 PM 252

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



6" Broken White  
w/Type C Markers @40'

6" White

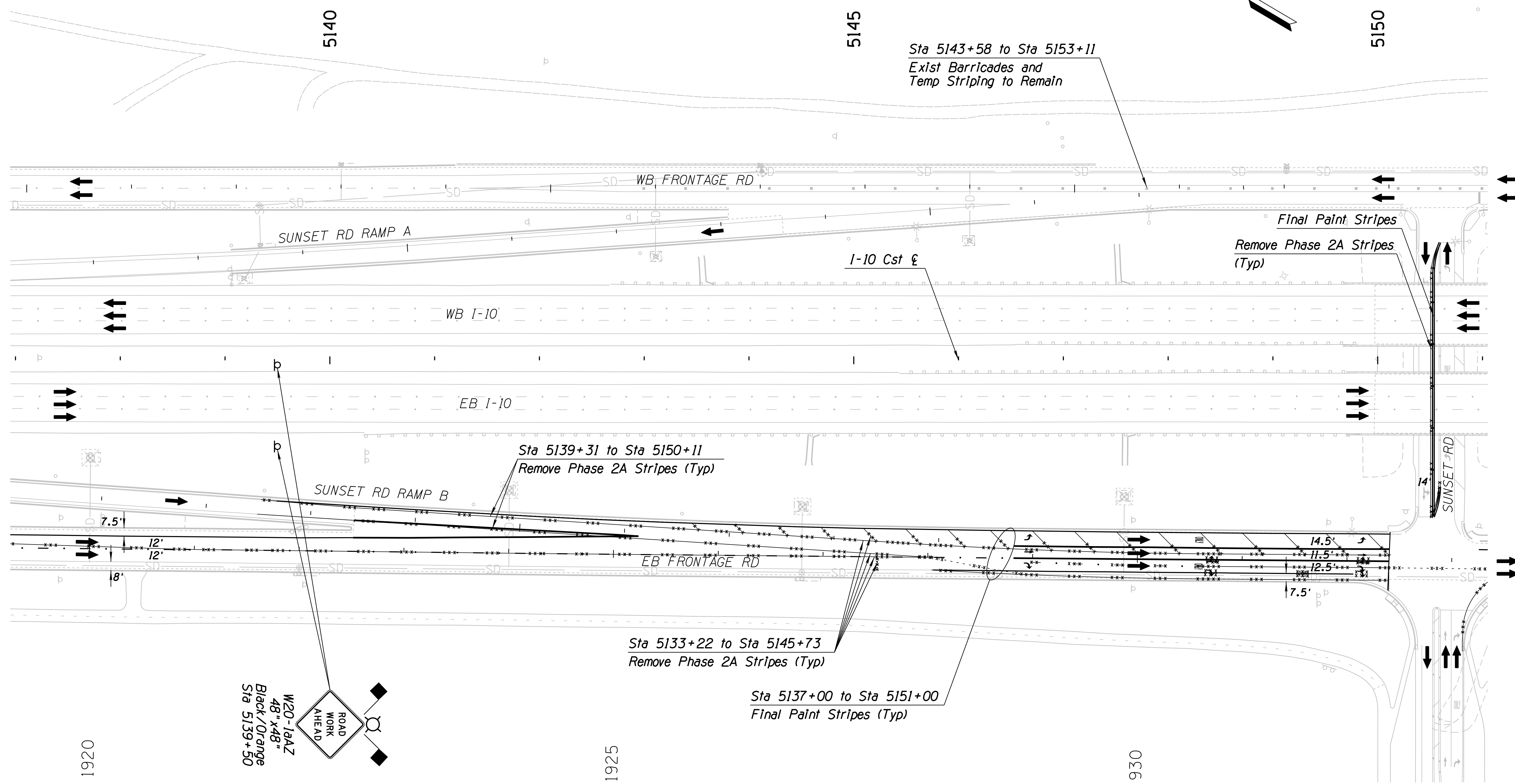
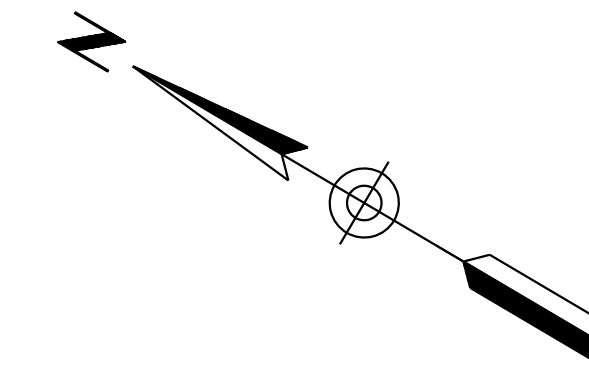
Sta 5133+22 to Sta 5145+73  
Remove Phase 2A Stripes (Typ)

**Notes:**  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5123+00 to 5137+00</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-2.40 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	364	849	

010 PM 252



W20-19AZ  
48" x 48"  
Black/Orange  
Sta 5139+50

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

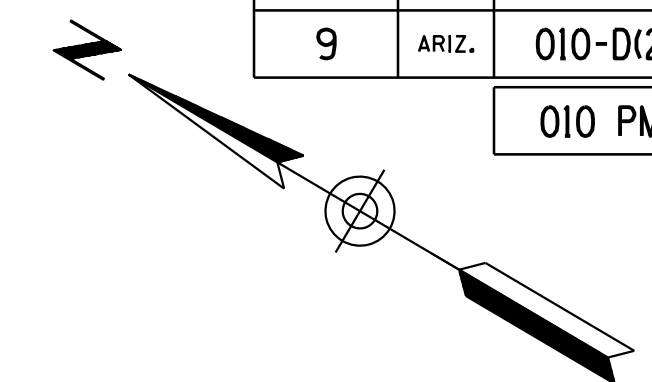
**Notes:**  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5137+00 to 5151+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. T-2.41 OF

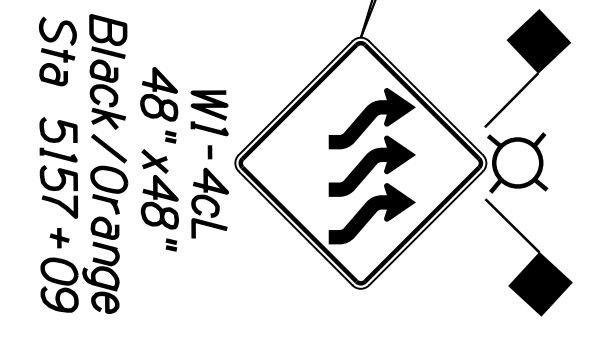
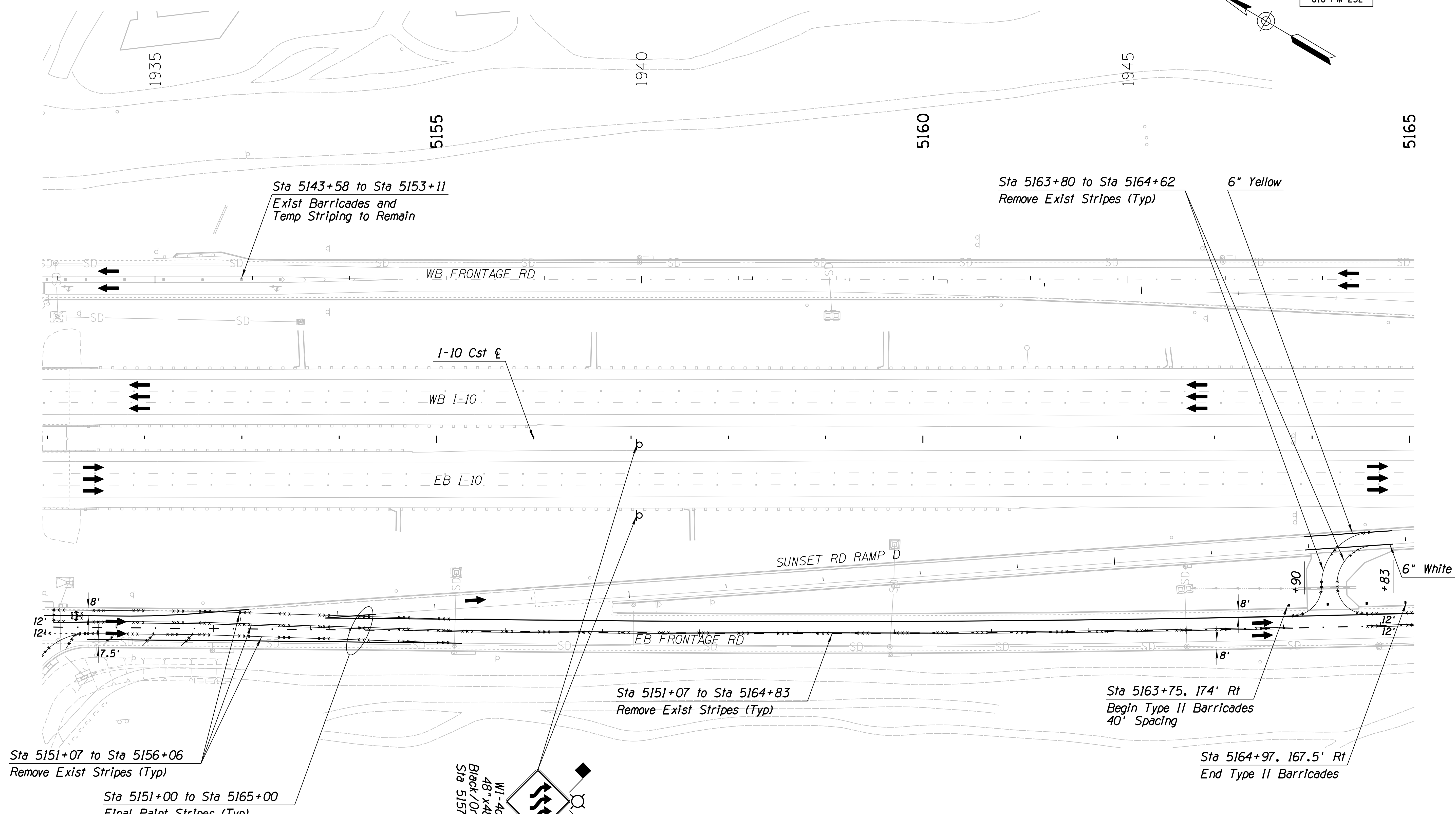


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	365	849	

010 PM 252



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

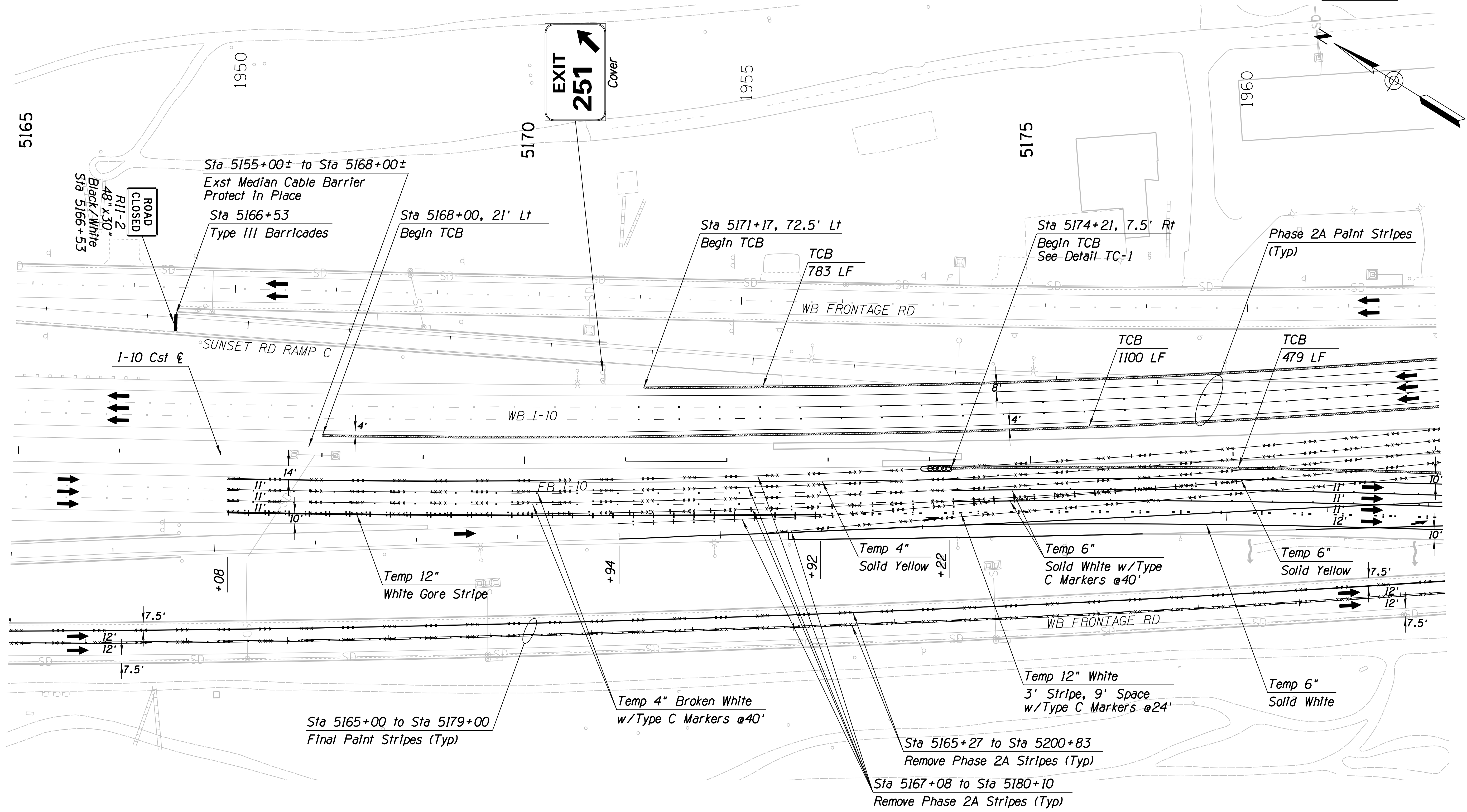


**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
JJK		3-19	TRAFFIC CONTROL PLAN PHASE 2B Sta 5151+00 to 5165+00
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	TRACS NO. H 8480 OIC	
I-10	RUTHRAUFF ROAD TI	010-D(213)S	
			DWG NO. T-2.42 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	366	849	

010 PM 252

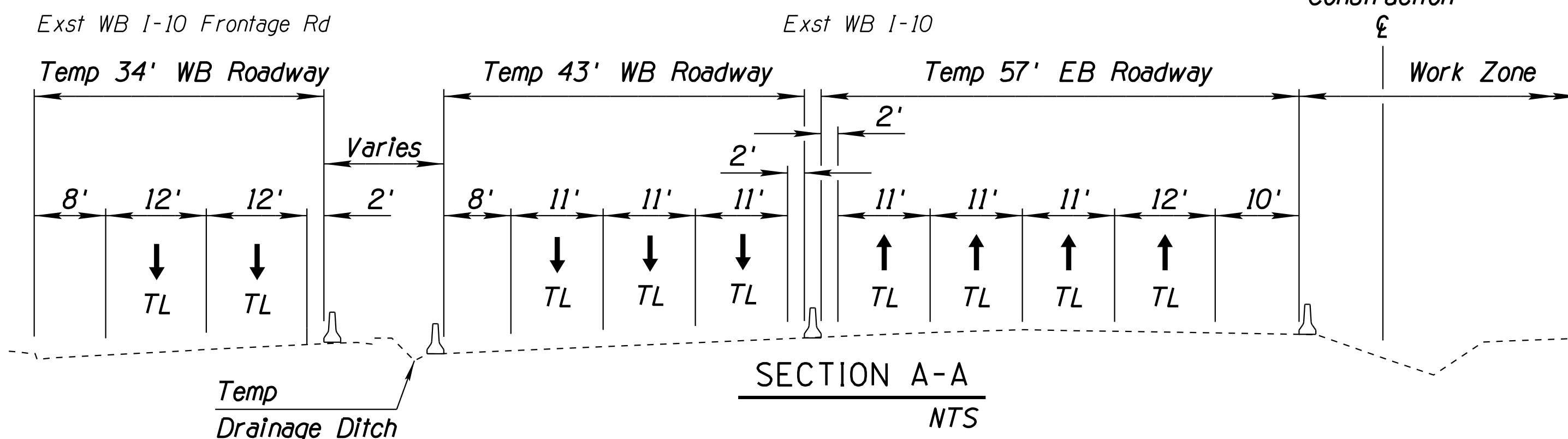
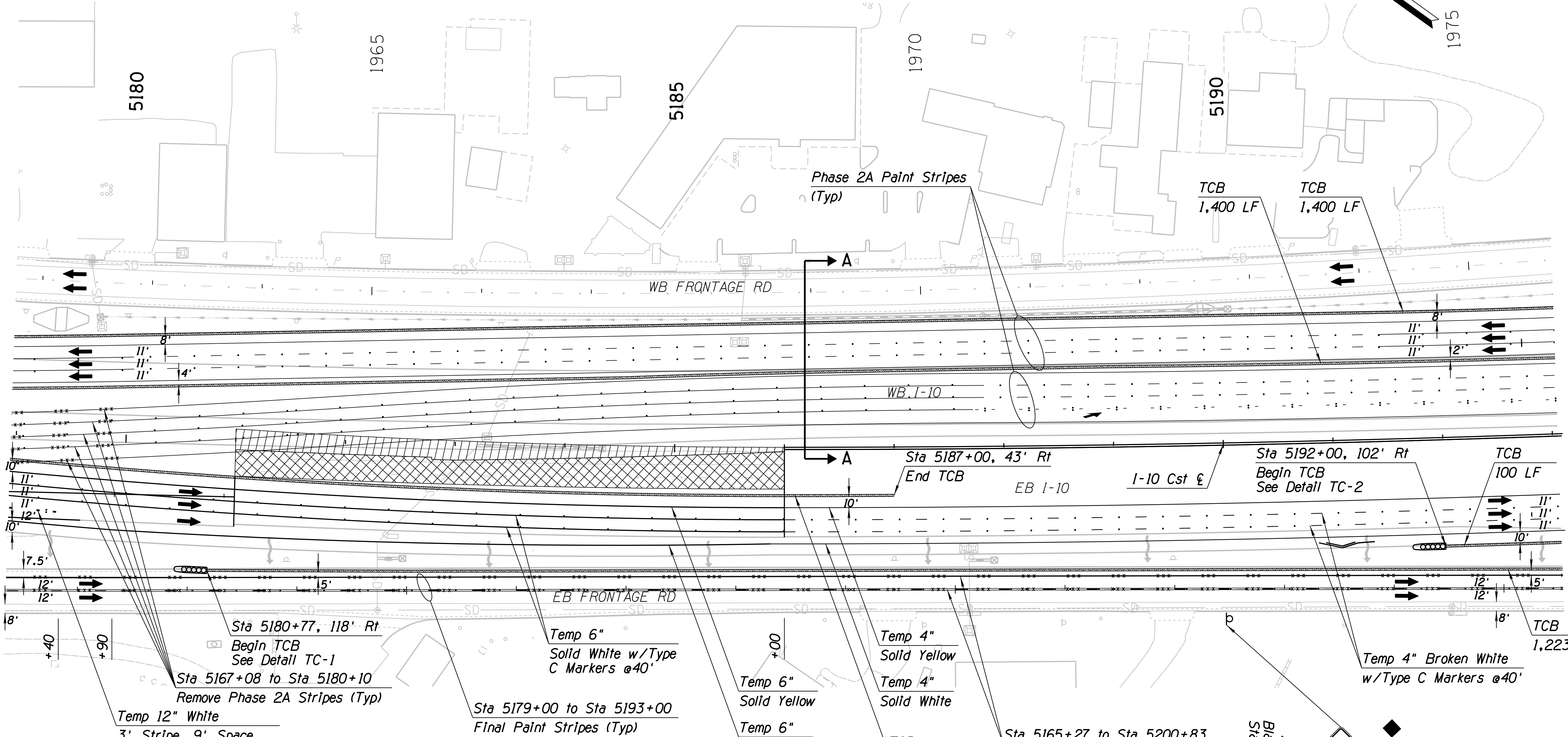
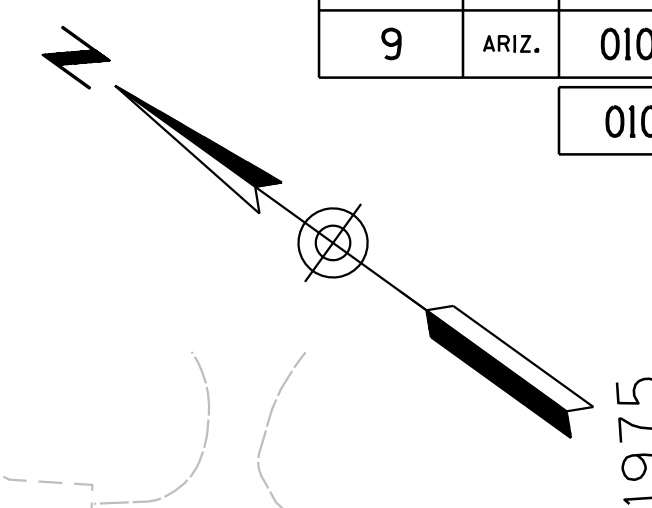


**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5165+00 to 5179+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC PROJECT NO. 010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	367	849	

010 PM 252



Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

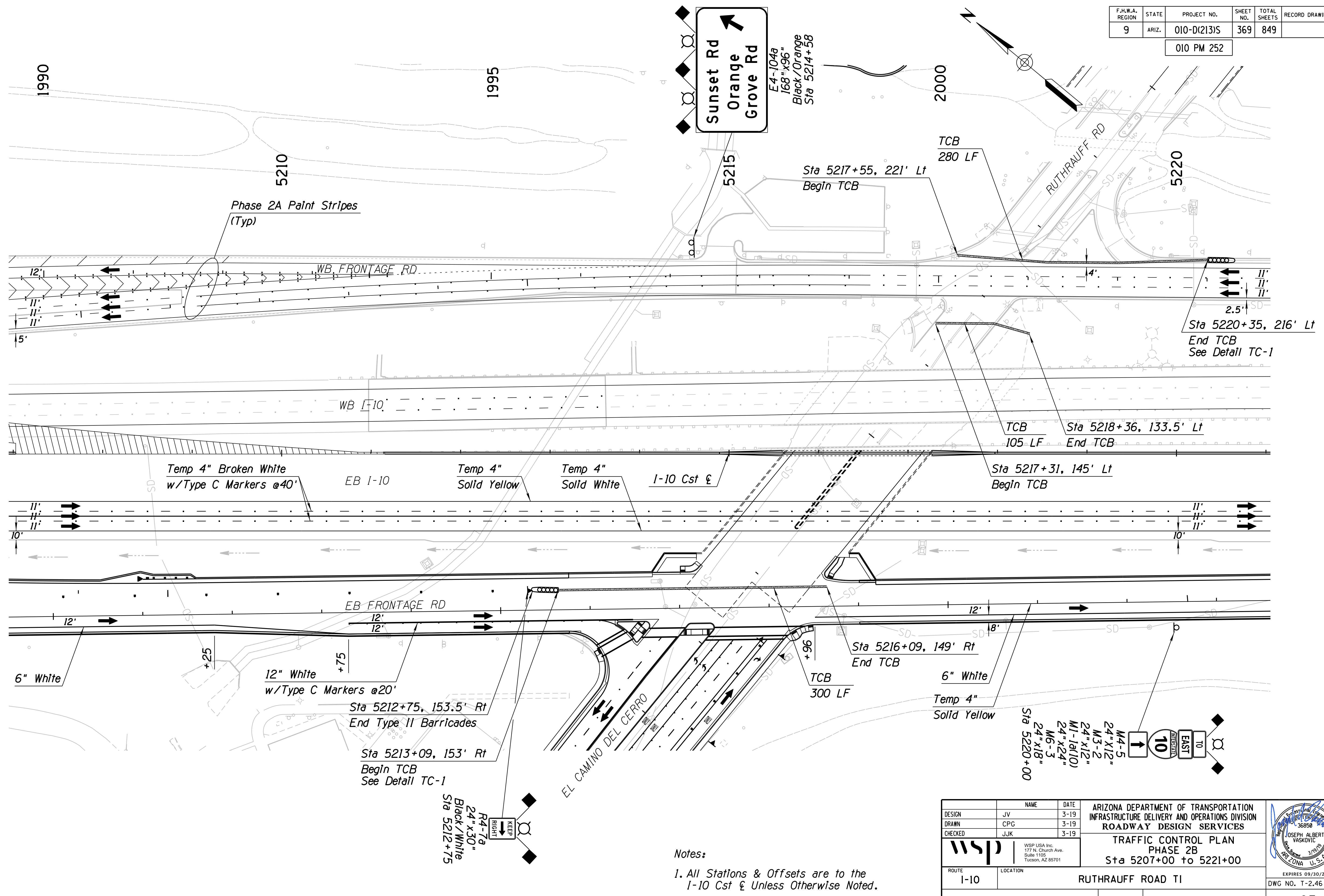
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5179+00 to 5193+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.44	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

SURVEY NO. FINISHED PLANS. REVISIONS. LOCATION. DATE. 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-D(213)S	369	849	

010 PM 252



Notes:  
1. All Stations & Offsets are to the 1-10 Cst & Unless Otherwise Noted.

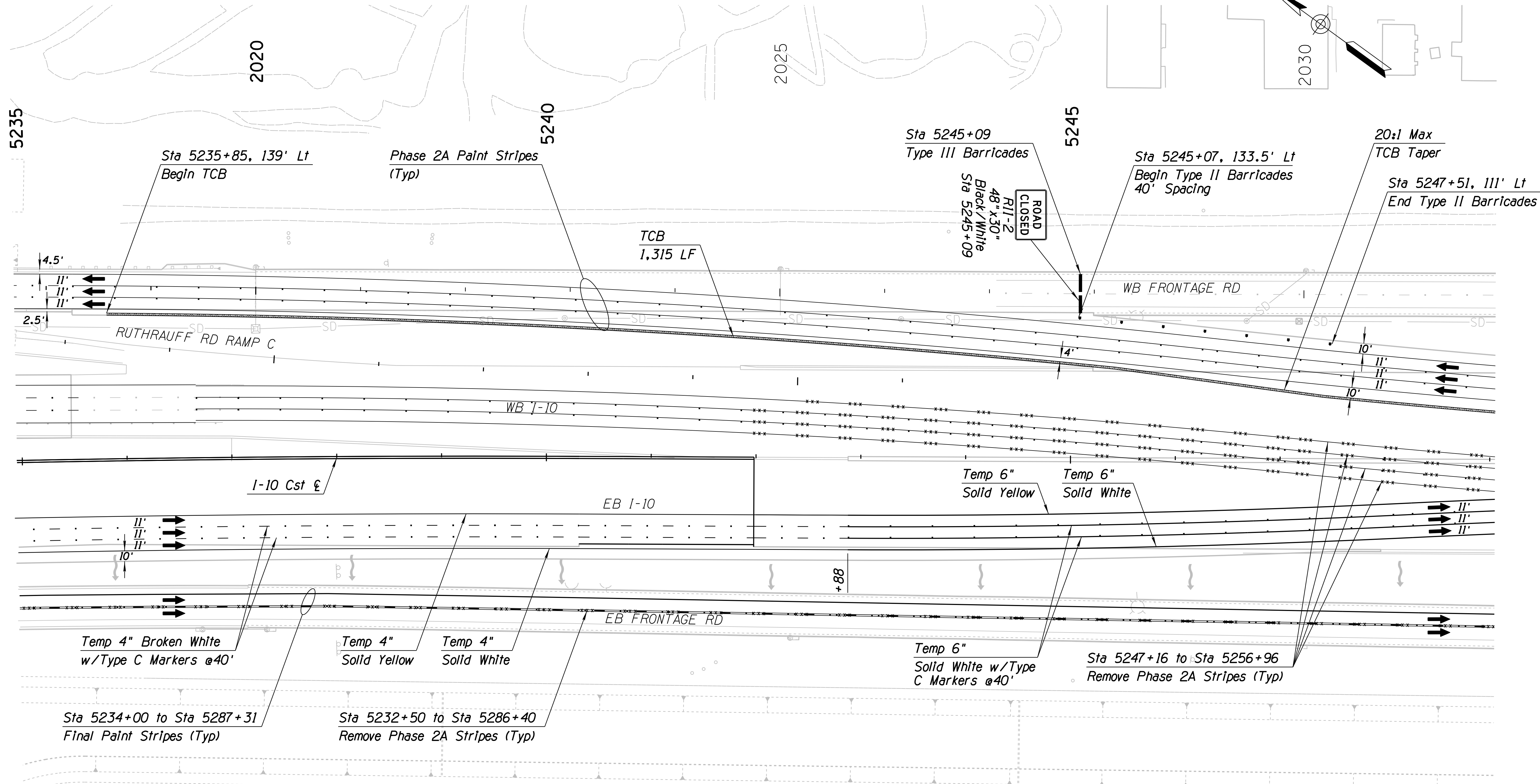
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
JJK		3-19	
			<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5207+00 to 5221+00</b>
ROUTE	LOCATION		
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-2.46 OF

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	371	849	

010 PM 252



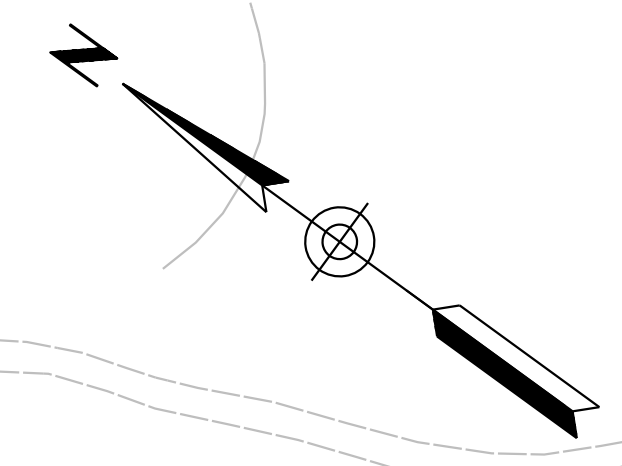
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.48	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	372	849	

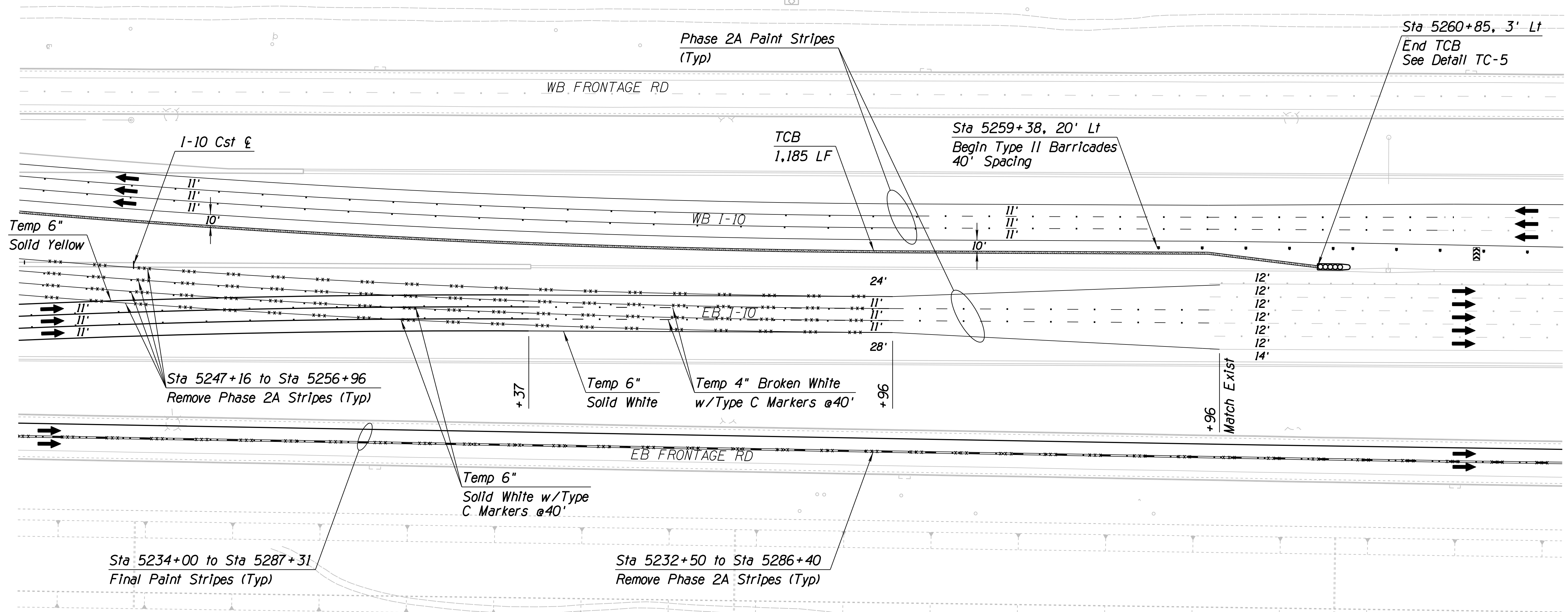
010 PM 252



5250

5255

5260



Sta 5247+16 to Sta 5256+96  
Remove Phase 2A Stripes (Typ)

Temp 6" Solid White  
Temp 4" Broken White w/Type C Markers @40'

Temp 6" Solid White w/Type C Markers @40'

Sta 5234+00 to Sta 5287+31  
Final Paint Stripes (Typ)

Sta 5232+50 to Sta 5286+40  
Remove Phase 2A Stripes (Typ)

Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

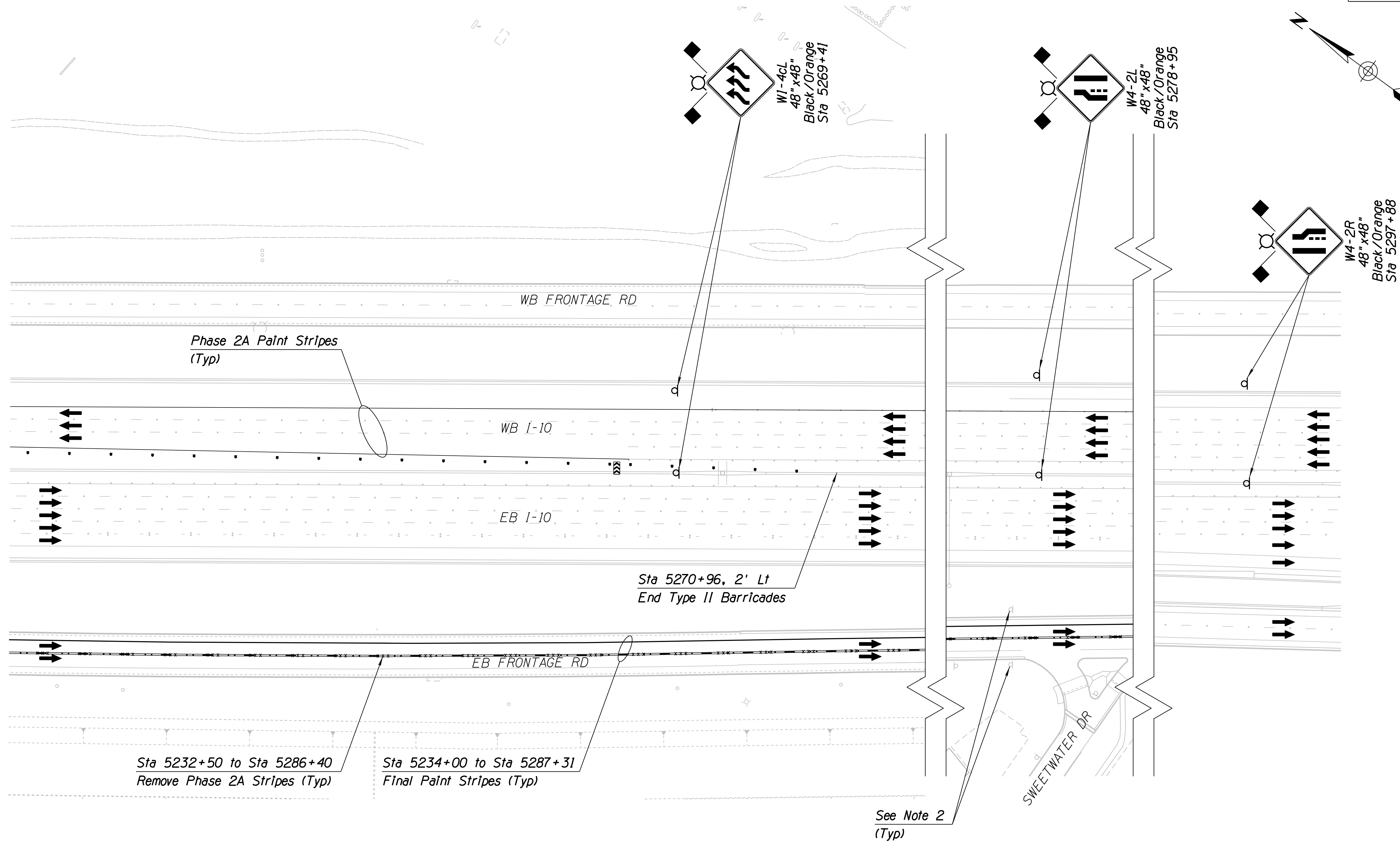
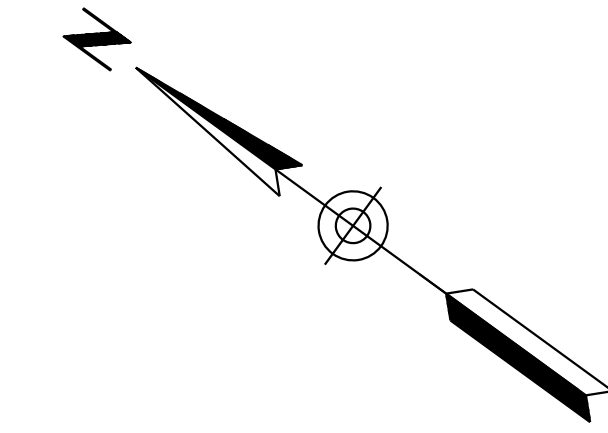
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.49	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)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-D(213)S	373	849	

010 PM 252



**Notes:**

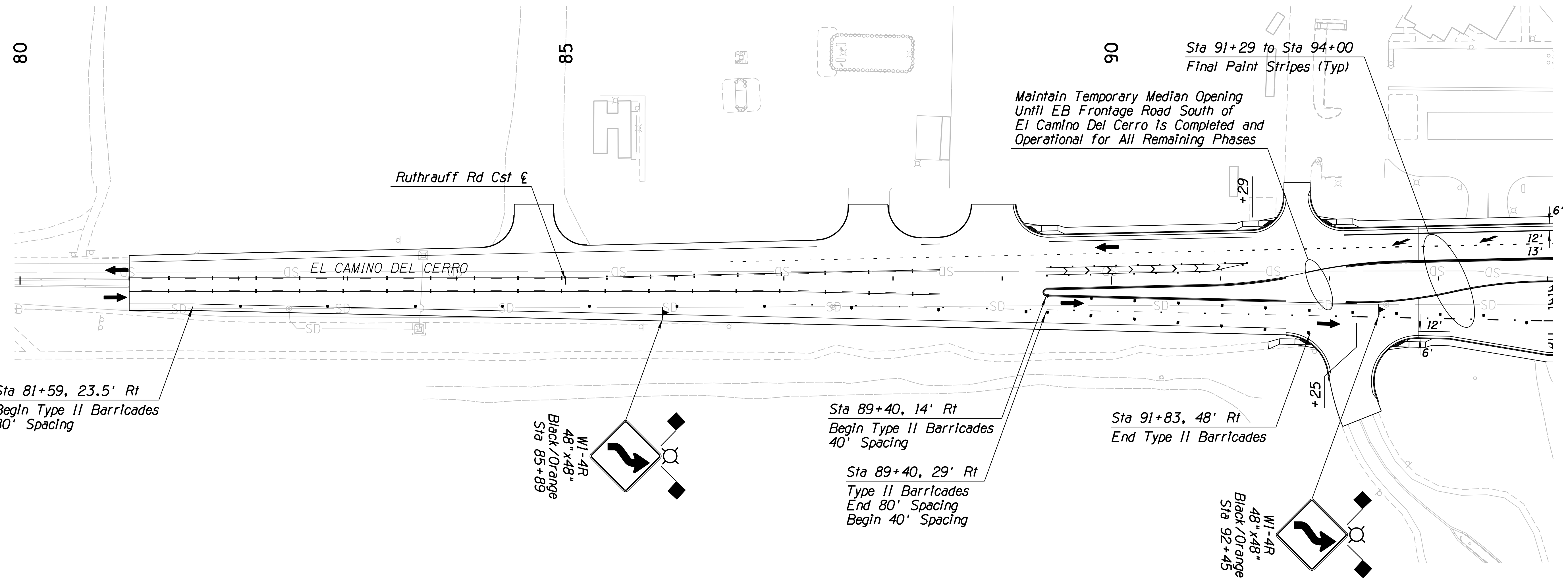
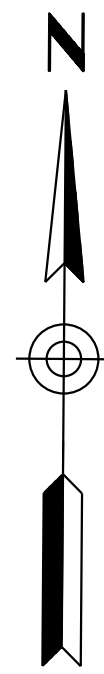
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.
2. Reinstall or uncover existing R5-1, R5-1a, and R6-1 signs on EB Frontage Rd that were covered or temporarily removed in Phase 2A.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>Sta 5263+00 to 5277+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.50	
ROUTE	LOCATION		I-10 RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE 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-D(213)S	374	849	

010 PM 252



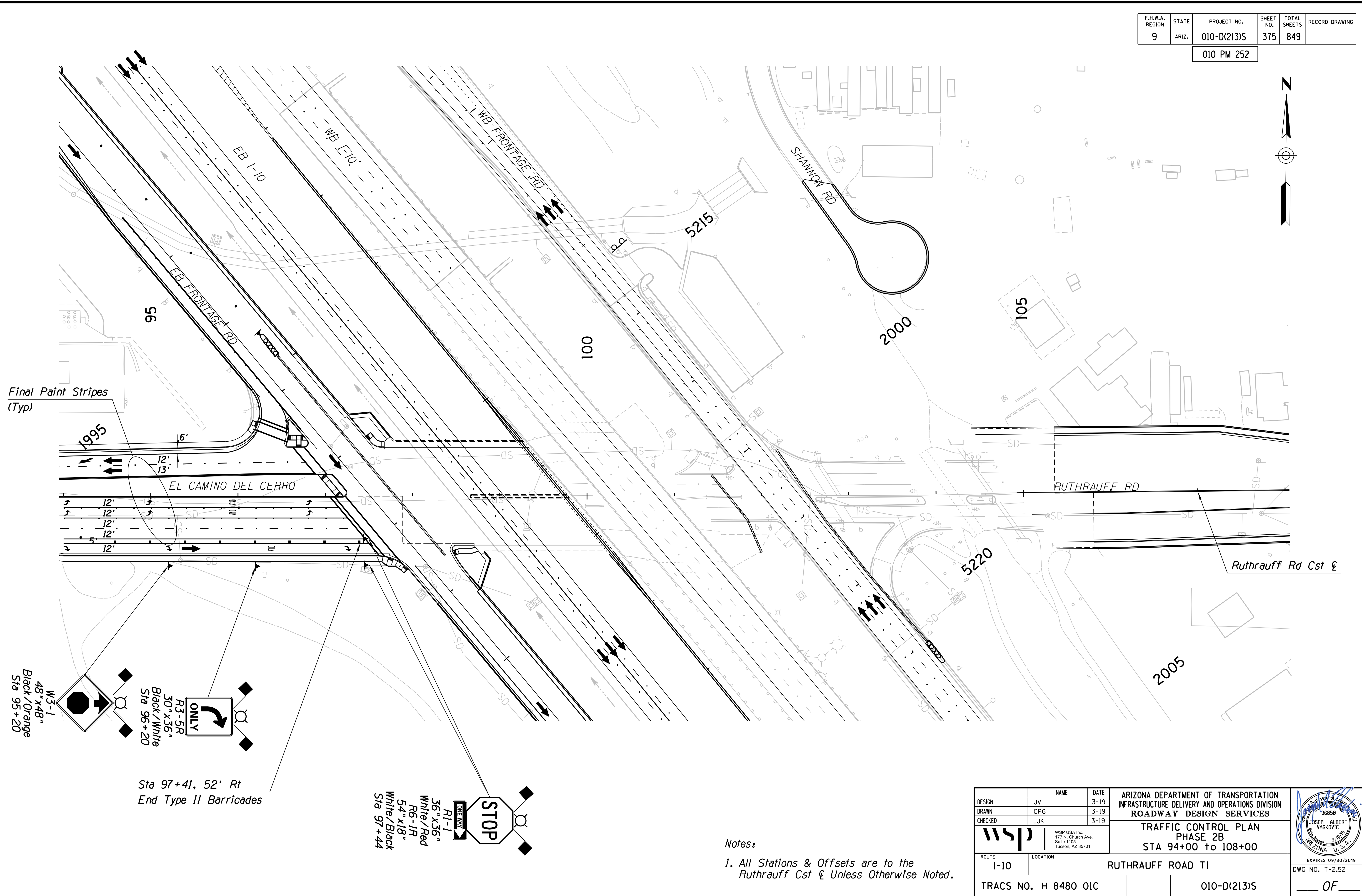
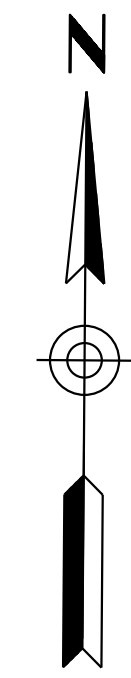
SURVEY NO. FINISHED PLANS REVISIONS DATE LOCATION FINISHED PLANS REVISIONS DATE SURVEY NO. FINISHED PLANS REVISIONS DATE

Notes:  
 1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

<table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DESIGN JV</td> <td>3-19</td> </tr> <tr> <td>DRAWN CPG</td> <td>3-19</td> </tr> <tr> <td>CHECKED JJK</td> <td>3-19</td> </tr> </tbody> </table>		NAME	DATE	DESIGN JV	3-19	DRAWN CPG	3-19	CHECKED JJK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
NAME	DATE											
DESIGN JV	3-19											
DRAWN CPG	3-19											
CHECKED JJK	3-19											
		TRAFFIC CONTROL PLAN PHASE 2B STA 80+00 to 94+00										
ROUTE 1-10	LOCATION RUTHRAUFF ROAD TI	EXPIRES 09/30/2019 DWG NO. T-2.51										
TRACS NO. H 8480 OIC		010-D(213)S		OF								

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	375	849	

010 PM 252



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

**Notes:**  
 1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

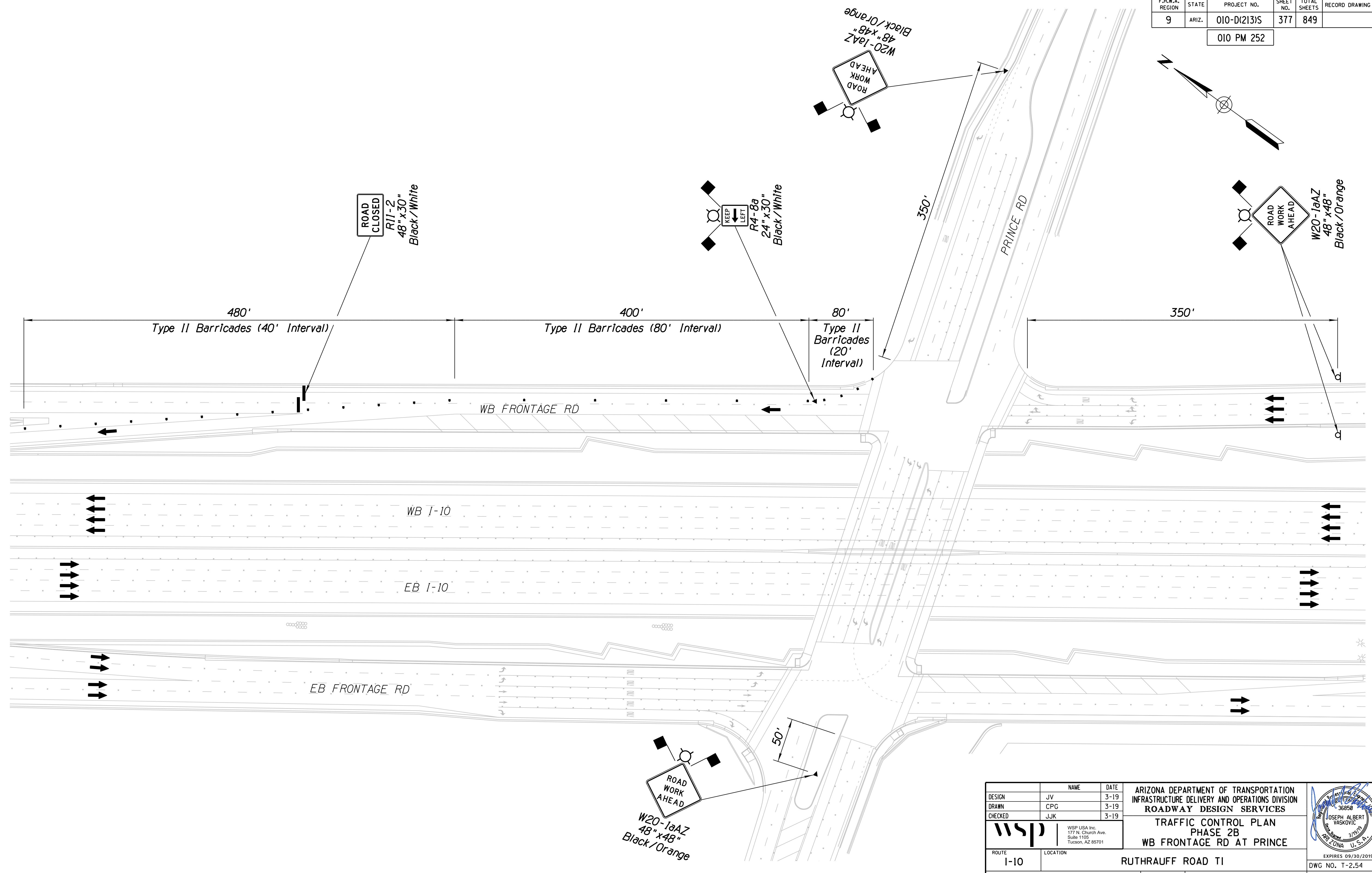
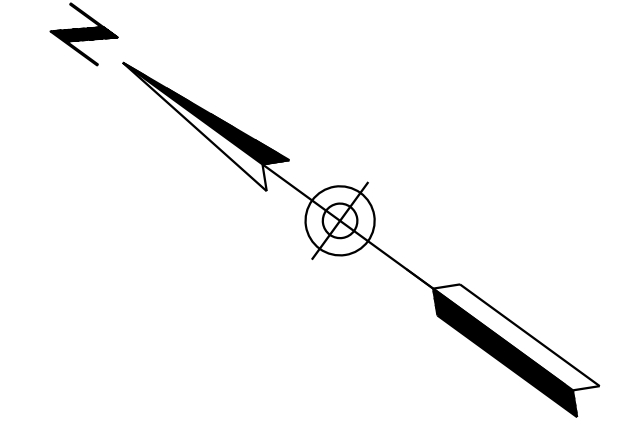
<b>DESIGN</b> JV 3-19 <b>DRAWN</b> CPG 3-19 <b>CHECKED</b> JJK 3-19		<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b> <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>STA 94+00 to 108+00</b>	
<b>wsp</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-252	
I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC	010-D(213)S OF



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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	377	849	

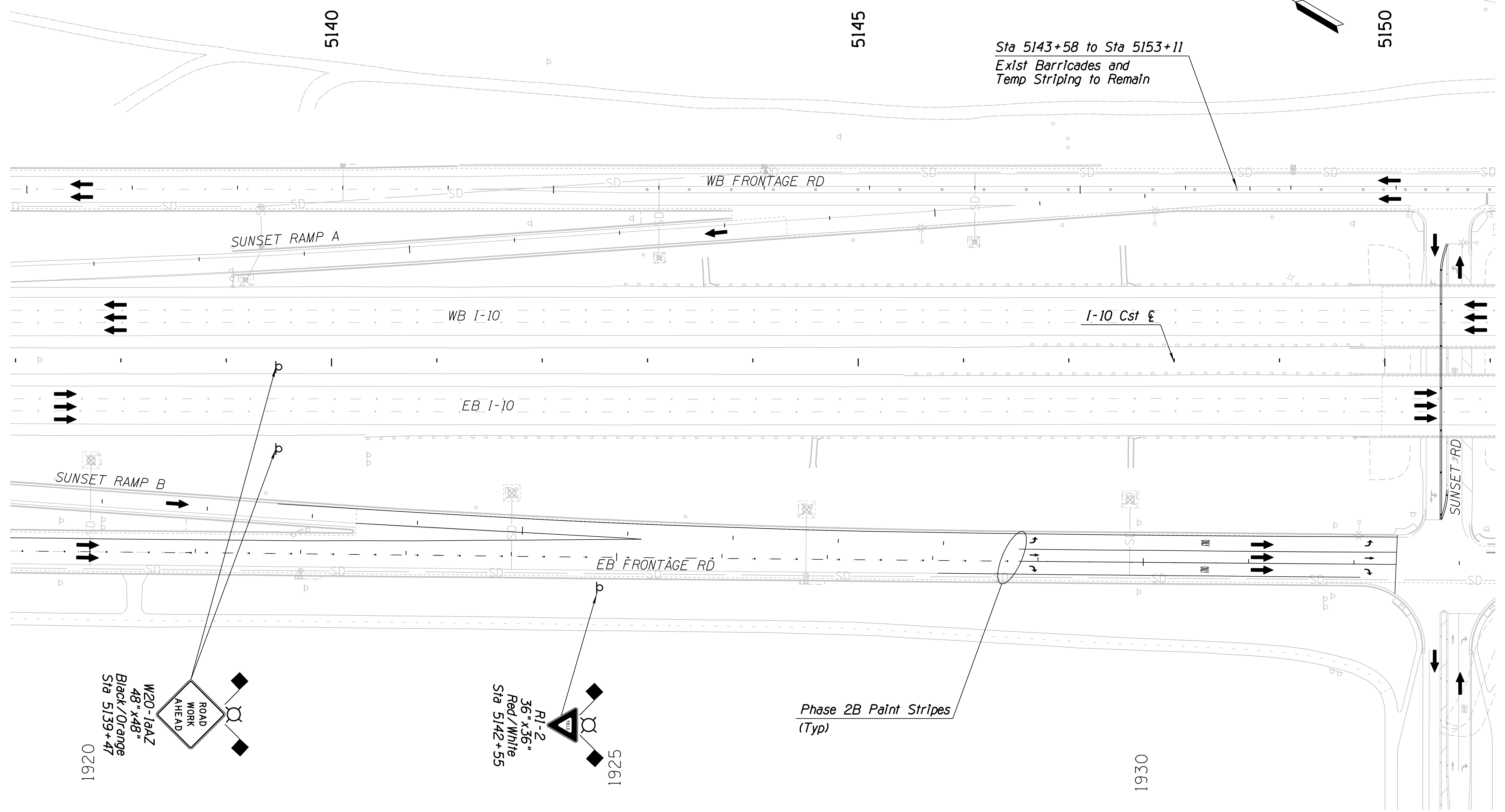
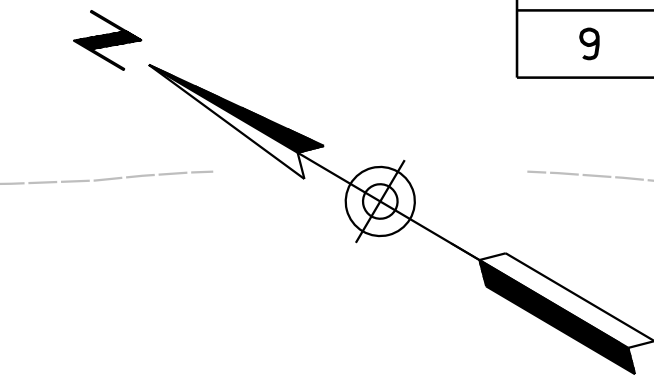
010 PM 252



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 2B</b> <b>WB FRONTAGE RD AT PRINCE</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-254	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	378	849	

010 PM 252



Sta 5143+58 to Sta 5153+11  
Exist Barricades and  
Temp Striping to Remain

Phase 2B Paint Stripes  
(Typ)

W20-10AZ  
48" x 48"  
Black/Orange  
Sta 5139+47

R1-2  
36" x 36"  
Red/White  
Sta 5142+55

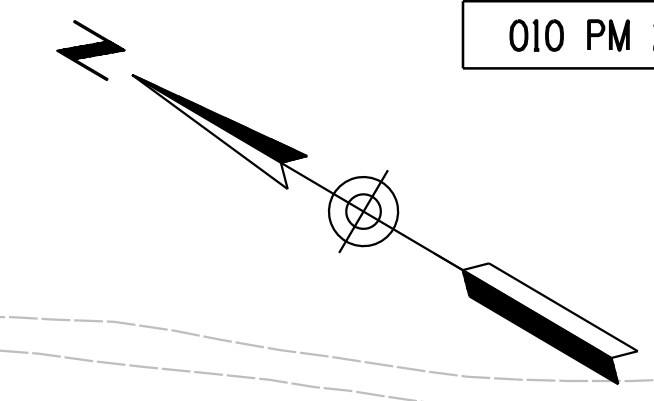
Notes:  
1. All Stations & Offsets are to the  
I-10 Cst E Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>Sta 5137+00 to 5151+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC      010-D(213)S      DWG NO. T-255	

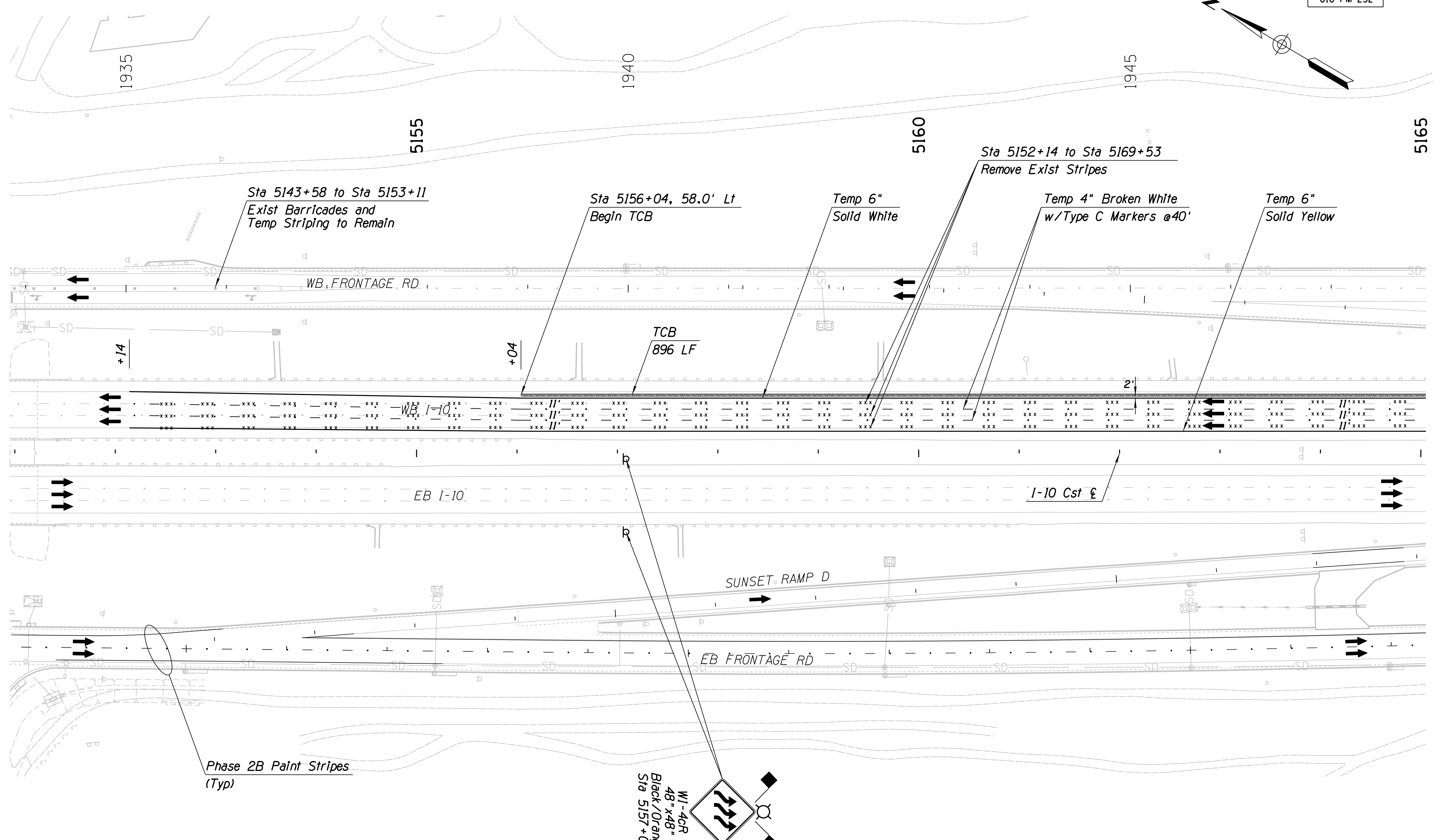
SURVEY NO.      FINISHED PLANS      DATE      REVISIONS      LOCATION      DATE      FINISHED PLANS      SURVEY NO.      REVISIONS      LOCATION      DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	379	849	

010 PM 252



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

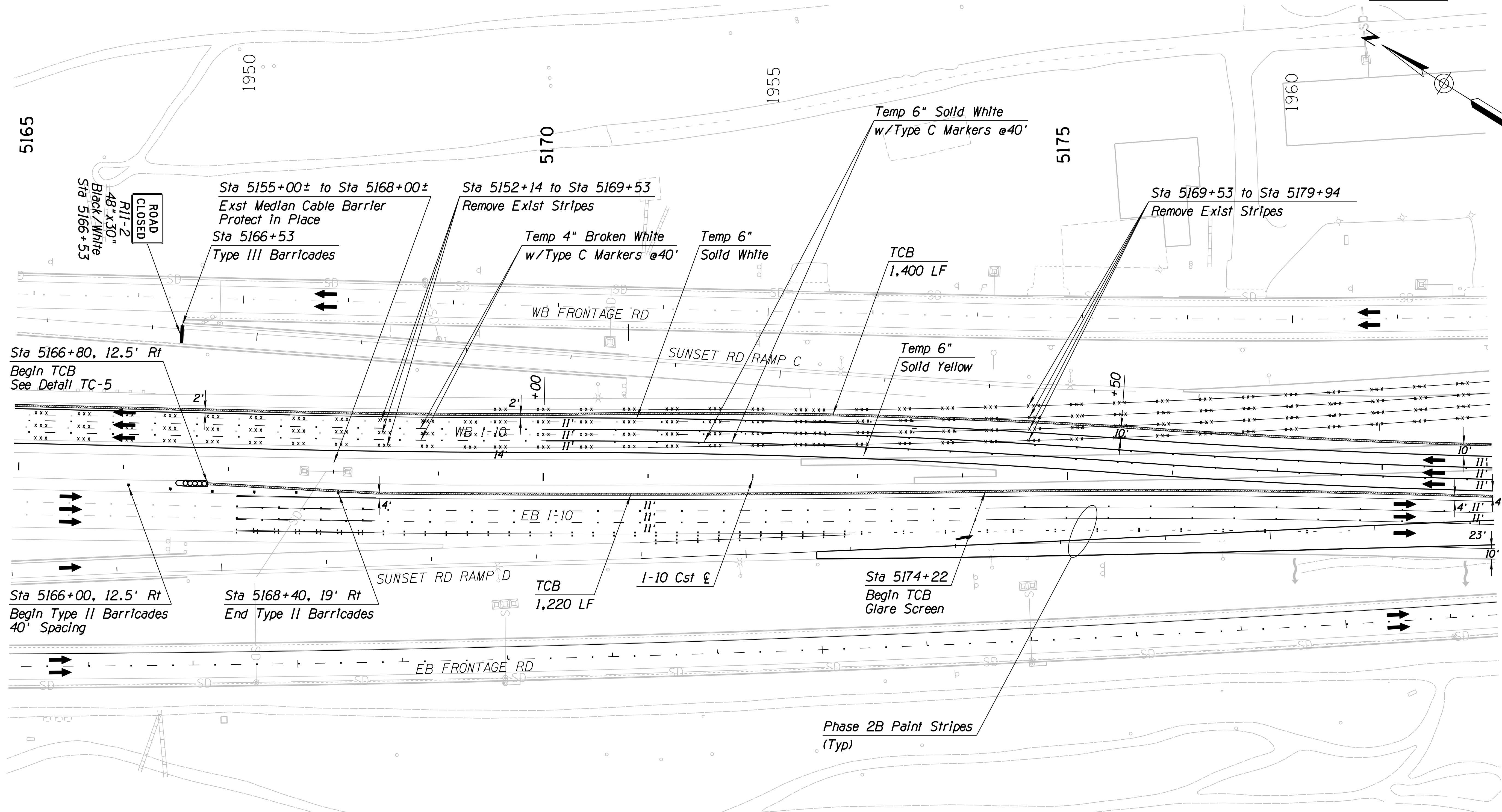


**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>Sta 5151+00 to 5165+00</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-256 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	380	849	

010 PM 252



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

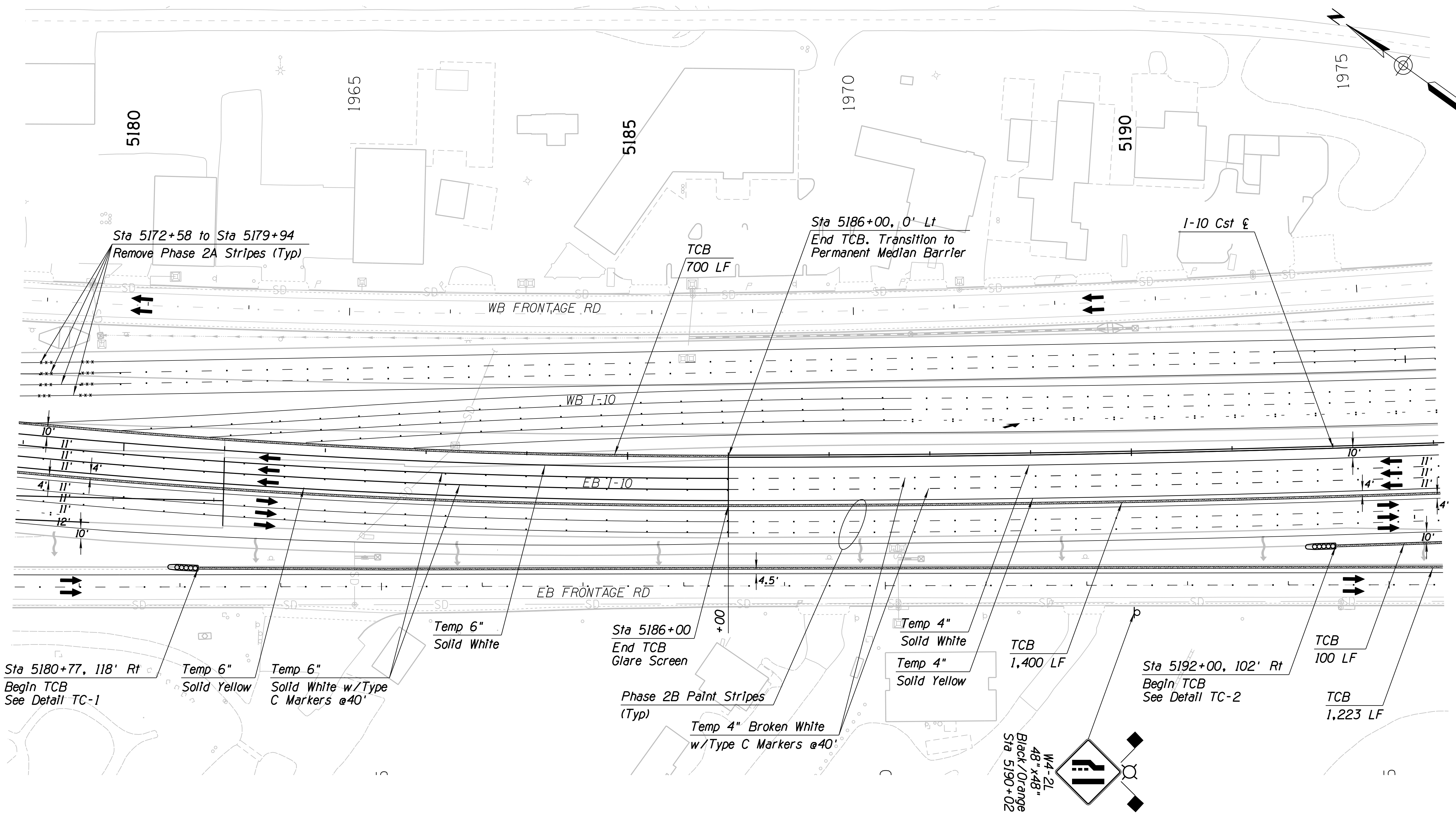
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN: JV DRAWN: CPG CHECKED: JJK		NAME: [Blank] DATE: 3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES TRAFFIC CONTROL PLAN PHASE 3A Sta 5165+00 to 5179+00	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE: I-10	LOCATION: RUTHRAUFF ROAD TI	EXPIRES 09/30/2019 DWG NO. T-2.57		
TRACS NO. H 8480 OIC		010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	381	849	

010 PM 252



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

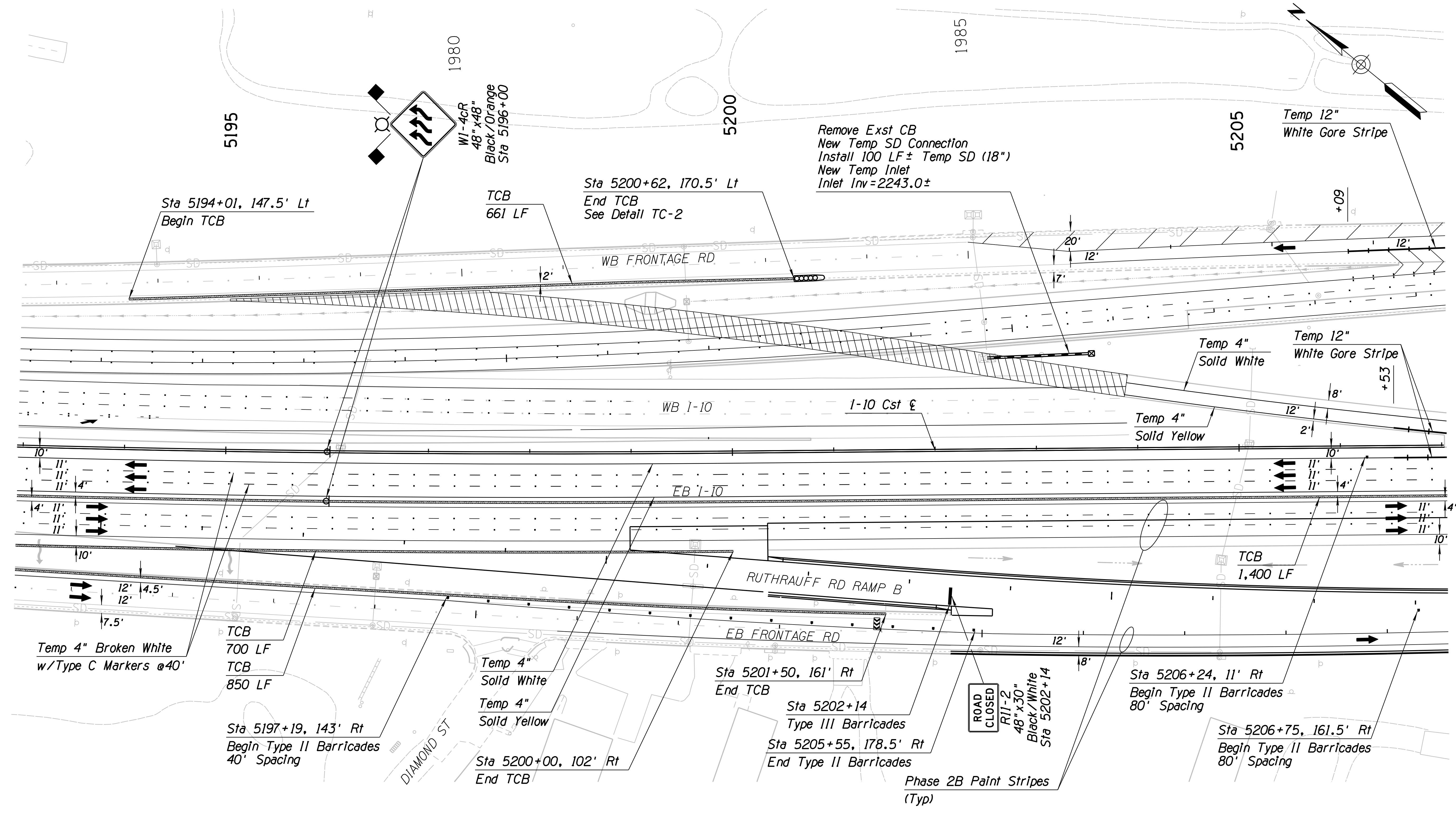
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>Sta 5179+00 to 5193+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-258	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
		DATE	OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	382	849	

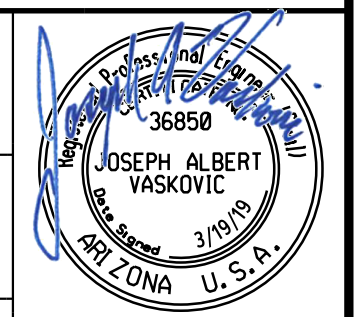
010 PM 252

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



**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

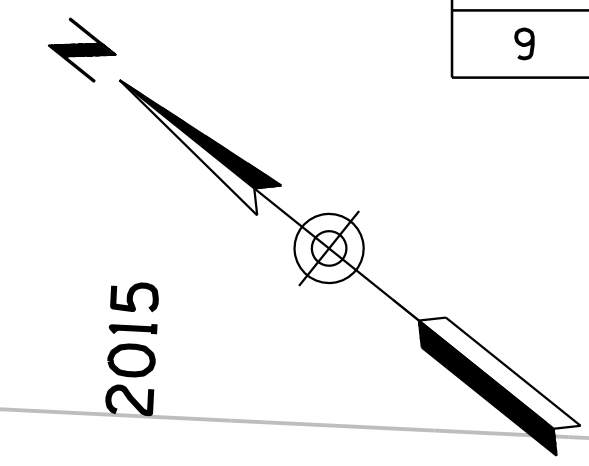
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CJG		3-19	
JJK		3-19	
			<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> Sta 5193+00 to 5207+00
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-2.59	
I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC	010-D(213)S



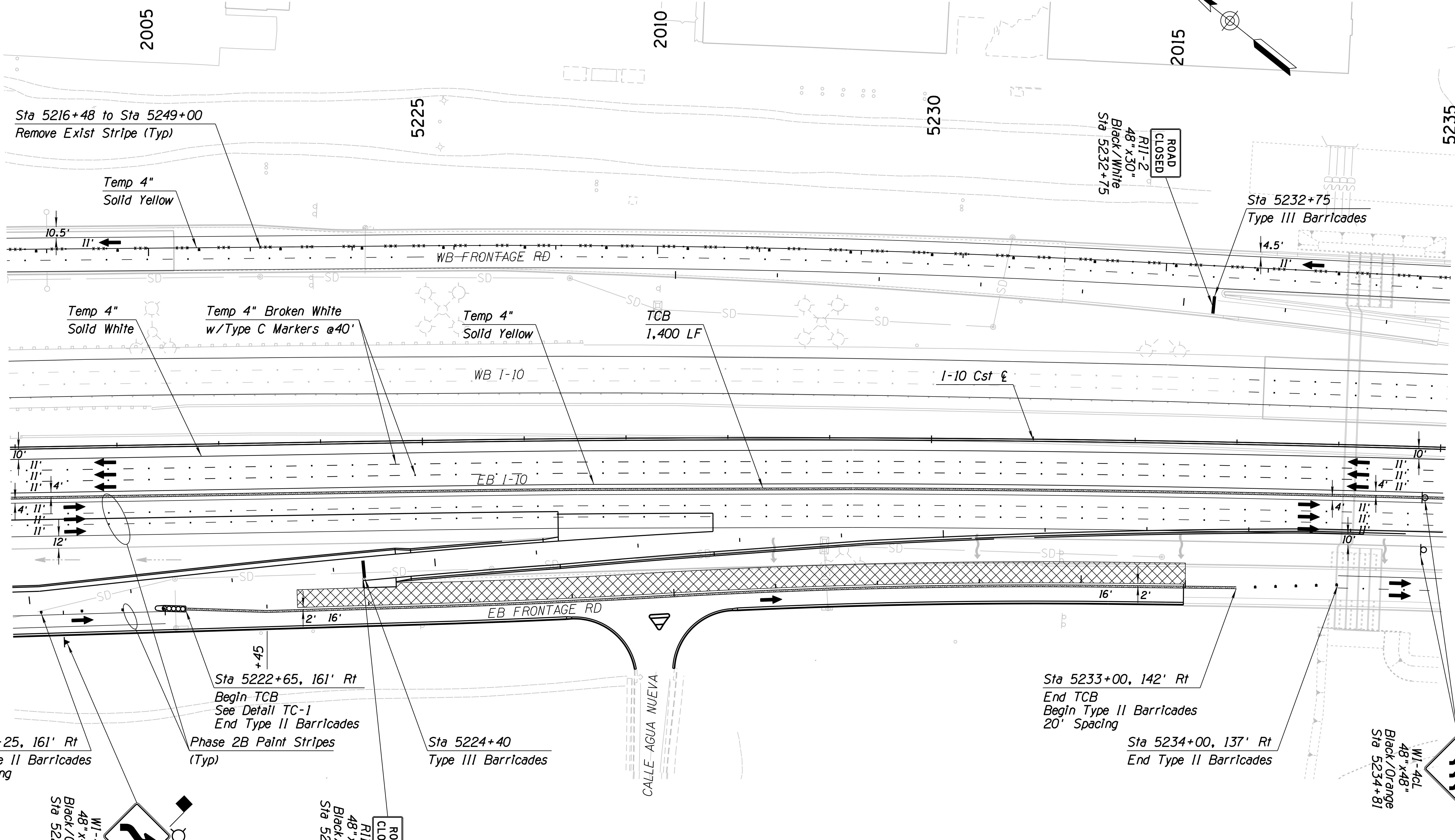


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	384	849	

010 PM 252



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



Sta 5221+25, 161' Rt  
Begin Type II Barricades  
40' Spacing

Sta 5222+65, 161' Rt  
Begin TCB  
See Detail TC-1  
End Type II Barricades  
Phase 2B Paint Stripes  
(Typ)

Sta 5224+40  
Type III Barricades

Sta 5233+00, 142' Rt  
End TCB  
Begin Type II Barricades  
20' Spacing

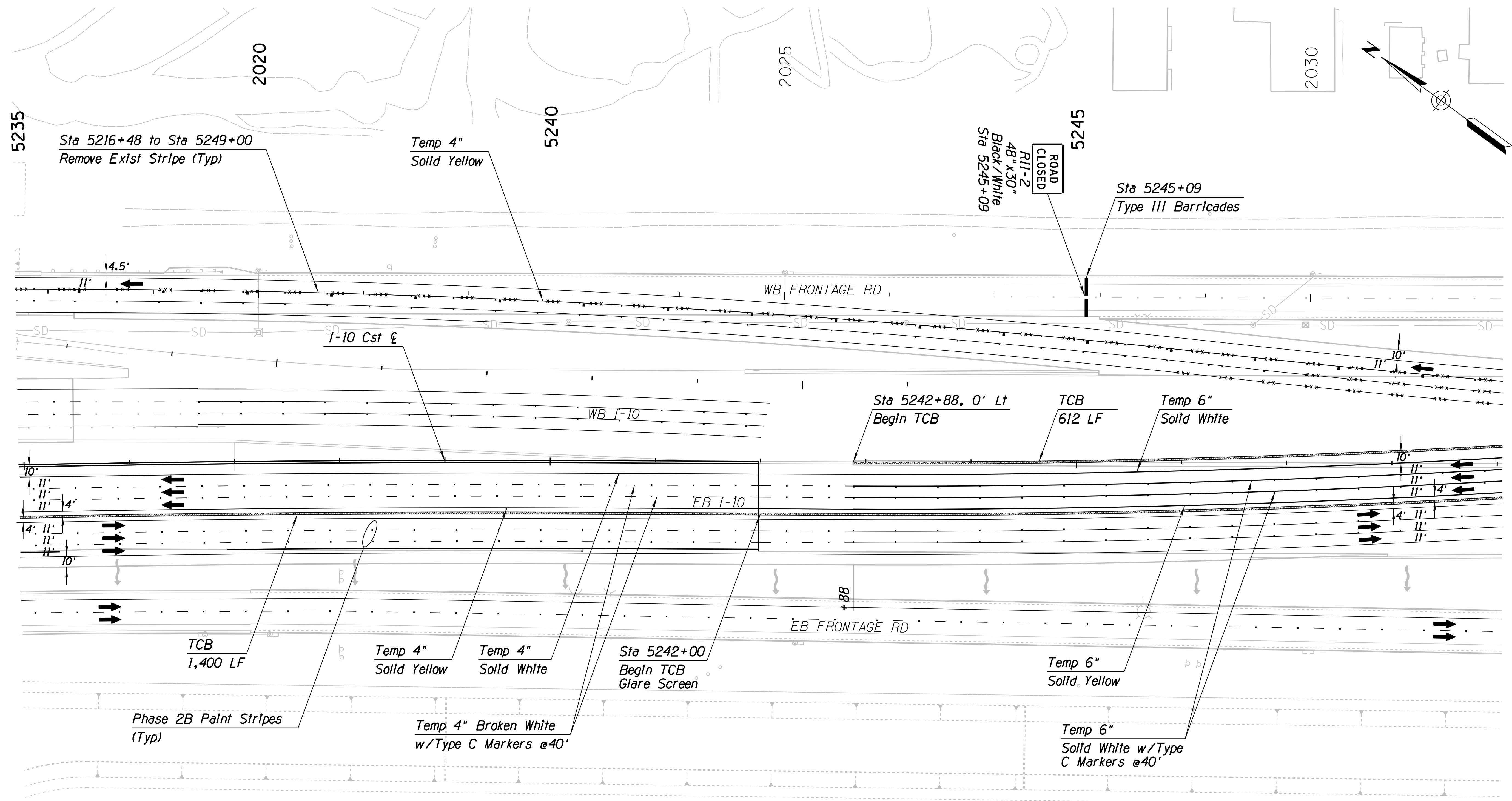
Sta 5234+00, 137' Rt  
End Type II Barricades

**Notes:**  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 3A Sta 5221+00 to 5235+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.61	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
DATE	Tue 19 Mar 2019, 12:15:25				

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	385	849	

010 PM 252



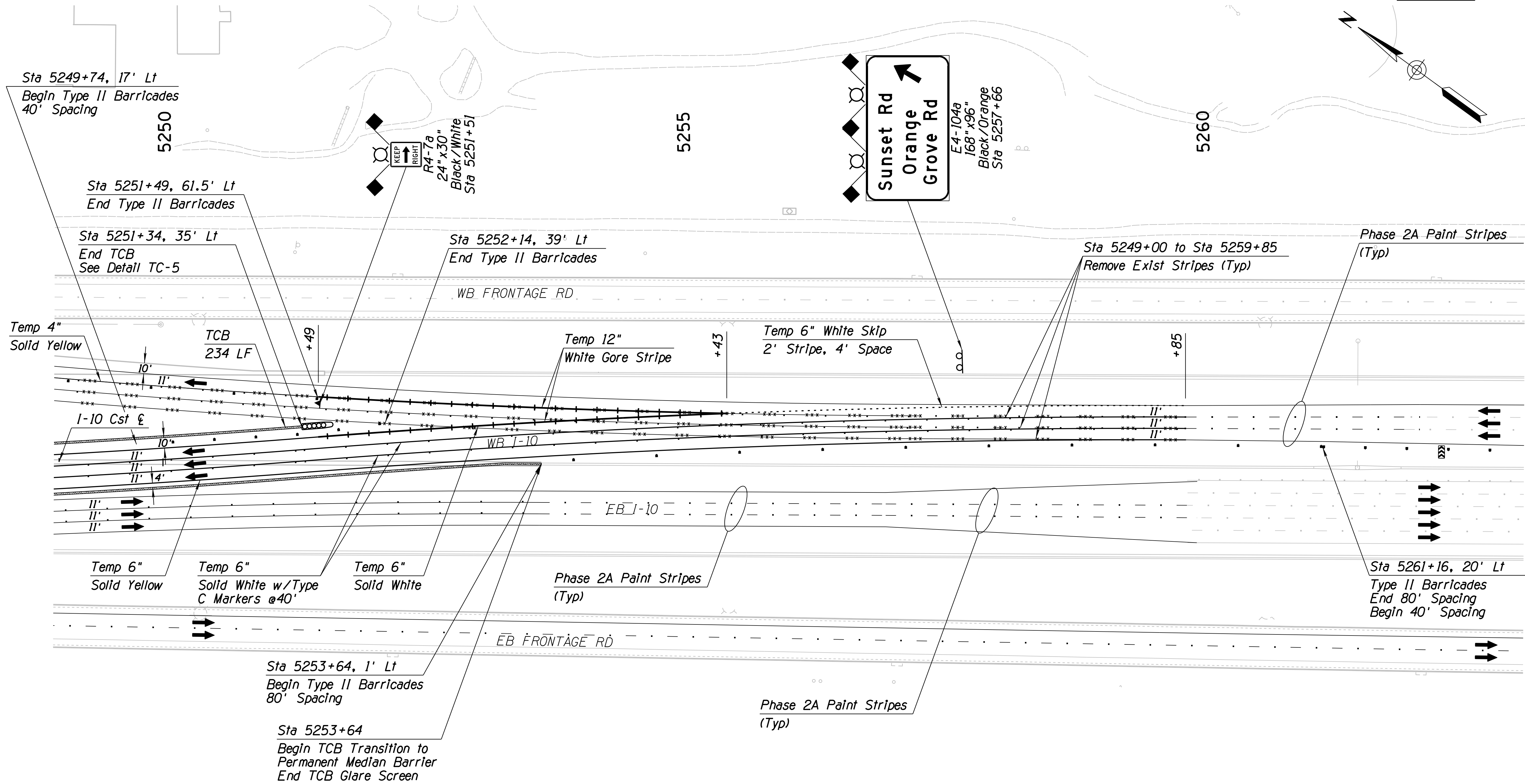
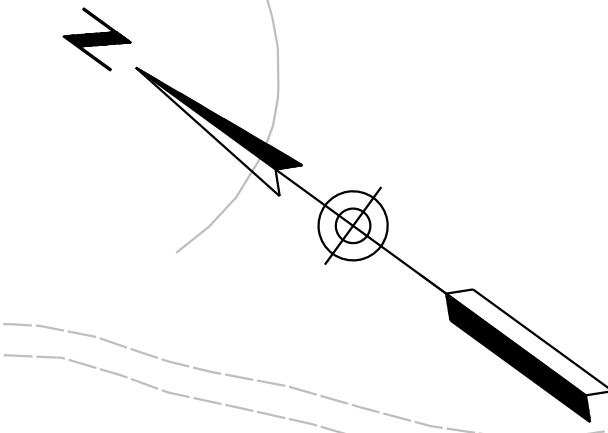
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.62	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	386	849	

010 PM 252



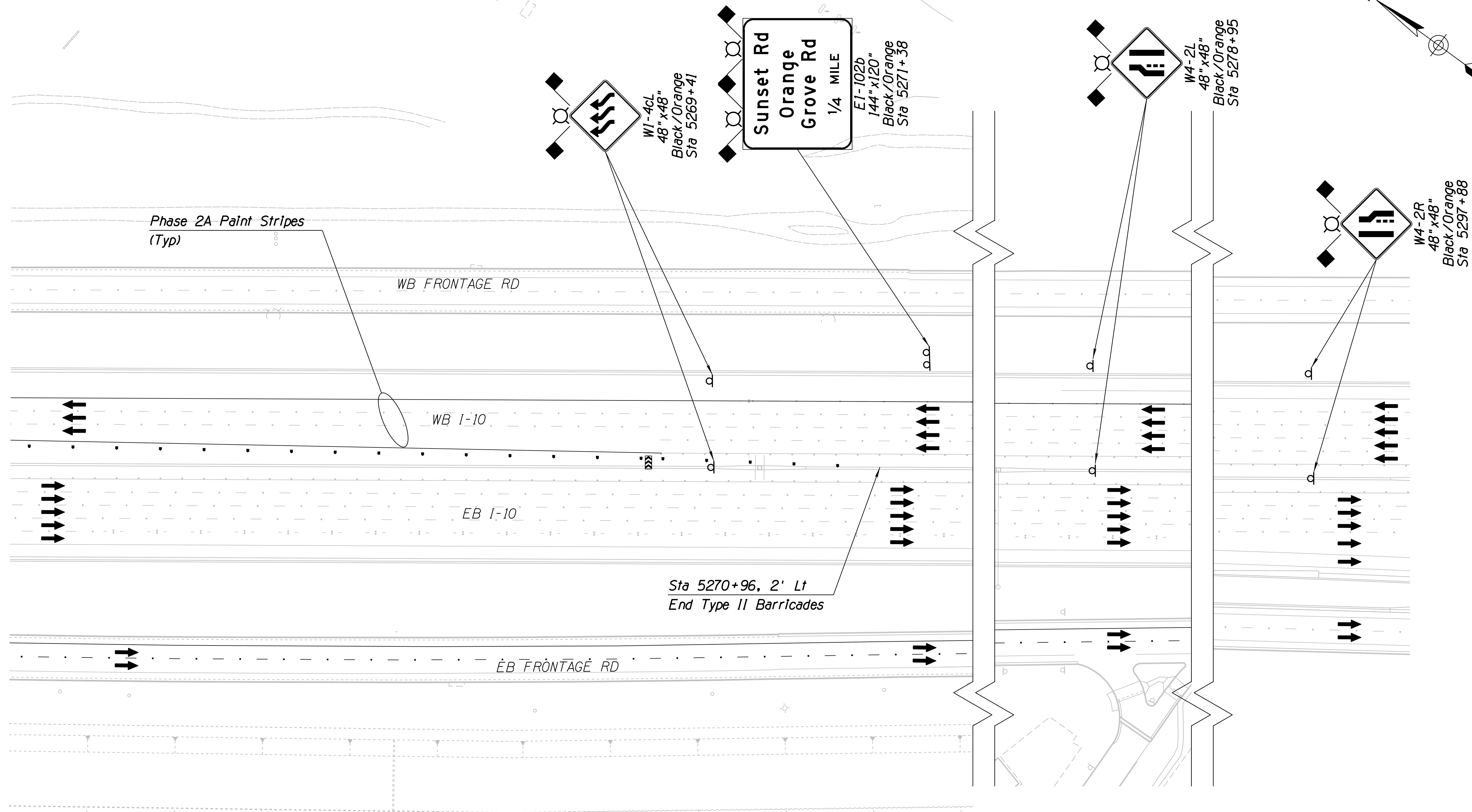
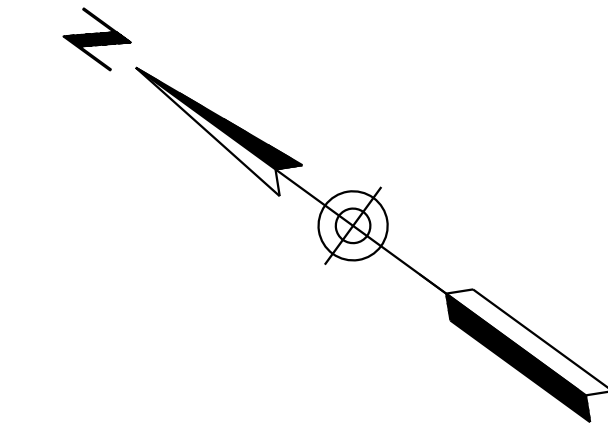
SURVEY NO. LOCATION DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS REVISIONS

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN		JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN		CPG	DATE	3-19		
CHECKED		JJK	DATE	3-19		
ROUTE		I-10	LOCATION		RUTHRAUFF ROAD TI	EXPIRES 09/30/2019
TRACS NO.		H 8480 OIC		010-D(213)S		DWG NO. T-2.63

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	387	849	

010 PM 252



Phase 2A Paint Stripes  
(Typ)

WB FRONTAGE RD

WB I-10

EB I-10

Sta 5270+96, 2' Lt  
End Type II Barricades

EB FRONTAGE RD

Notes:

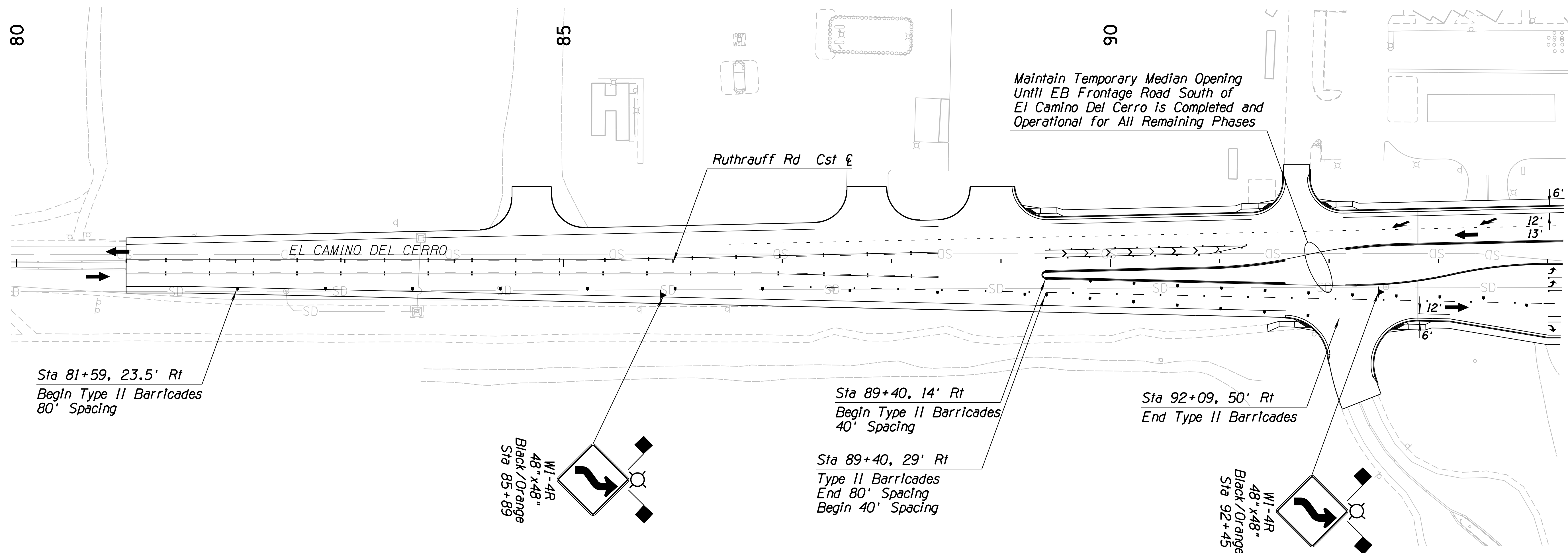
- All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> Sta 5263+00 to 5277+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC      010-D(213)S      DWG NO. T-2.64      OF	

SURVEY NO.      FINISHED PLANS      REVISIONS      LOCATION      DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	388	849	

010 PM 252



Sta 81+59, 23.5' Rt  
Begin Type II Barricades  
80' Spacing

W1-4R  
48" x 48"  
Black/Orange  
Sta 85+89

Sta 89+40, 14' Rt  
Begin Type II Barricades  
40' Spacing

Sta 89+40, 29' Rt  
Type II Barricades  
End 80' Spacing  
Begin 40' Spacing

Sta 92+09, 50' Rt  
End Type II Barricades

W1-4R  
48" x 48"  
Black/Orange  
Sta 92+45

**Notes:**

1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

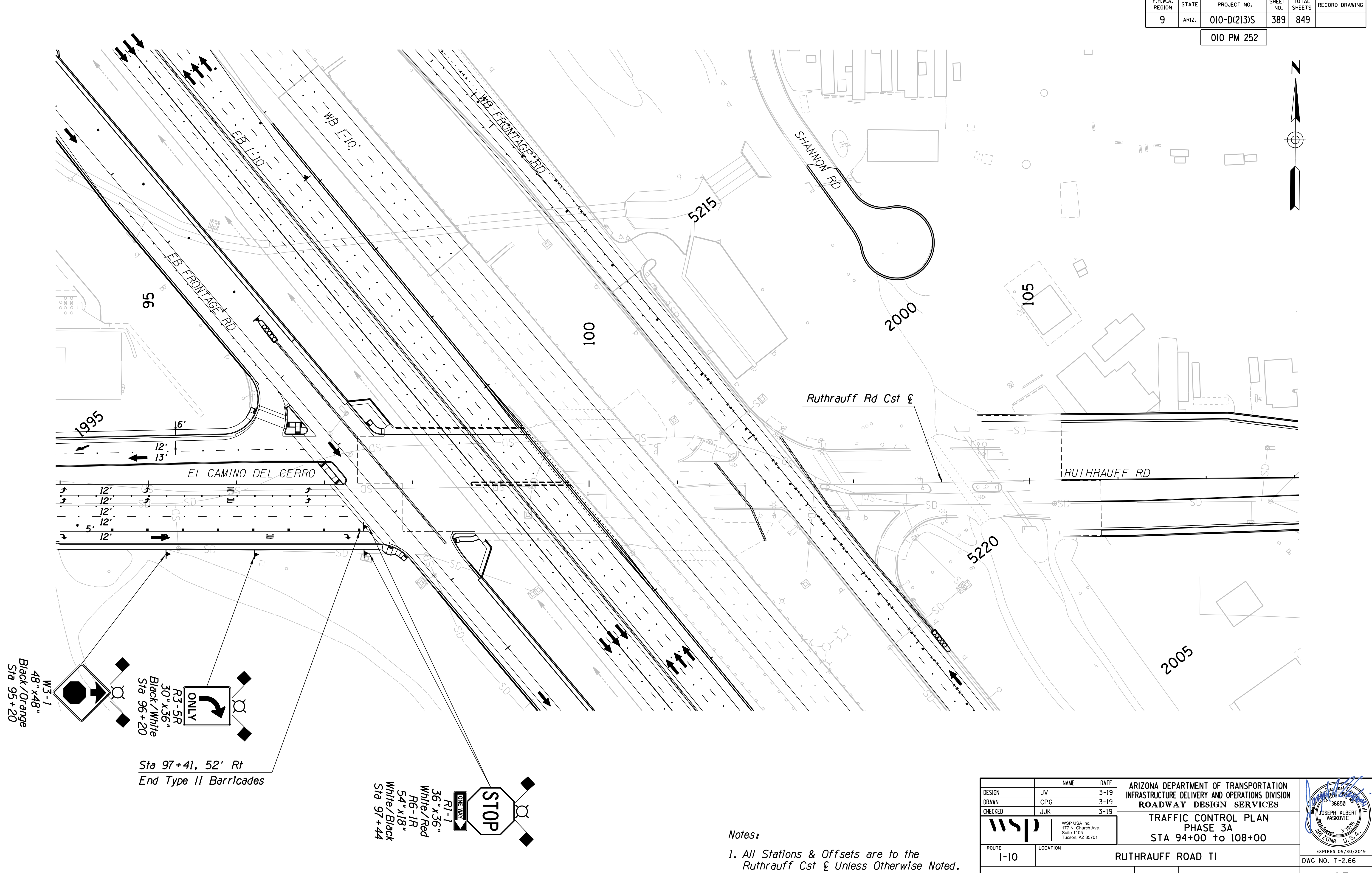
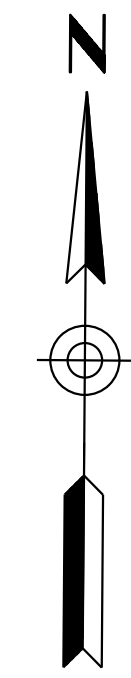
DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>STA 80+00 to 94+00</b>	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
ROUTE		1-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 09/30/2019
TRACS NO.		H 8480 OIC		010-D(213)S	DWG NO. T-2.65
					OF

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	389	849	

010 PM 252



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

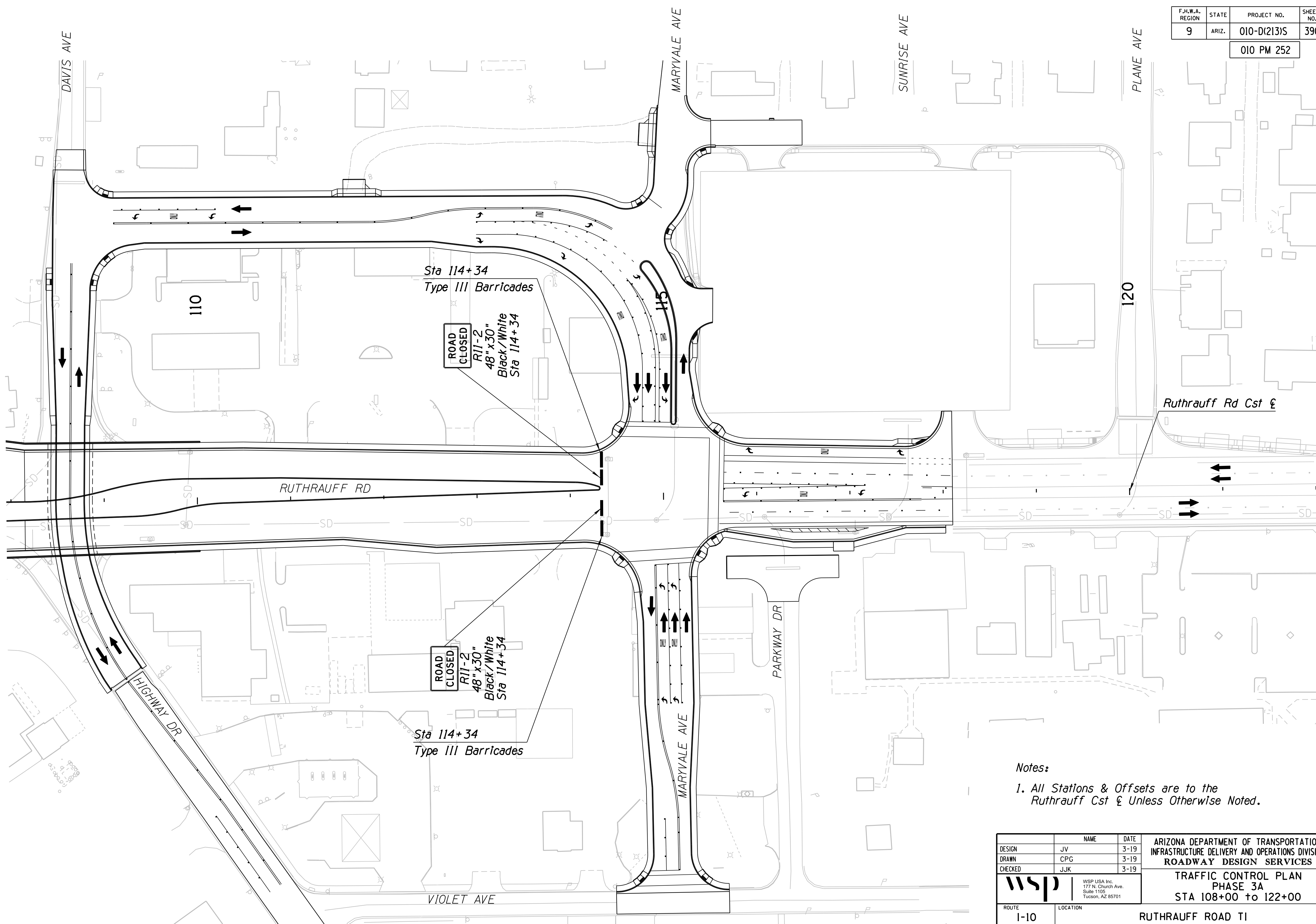
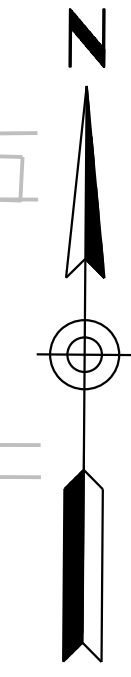
**Notes:**  
 1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DESIGN: JV DRAWN: CPG CHECKED: JJK	NAME: JV DATE: 3-19	<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>STA 94+00 to 108+00</b>		EXPIRES 09/30/2019 DWG NO. T-2.66		
ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		TRACS NO. H 8480 OIC		010-D(213)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	390	849	

010 PM 252



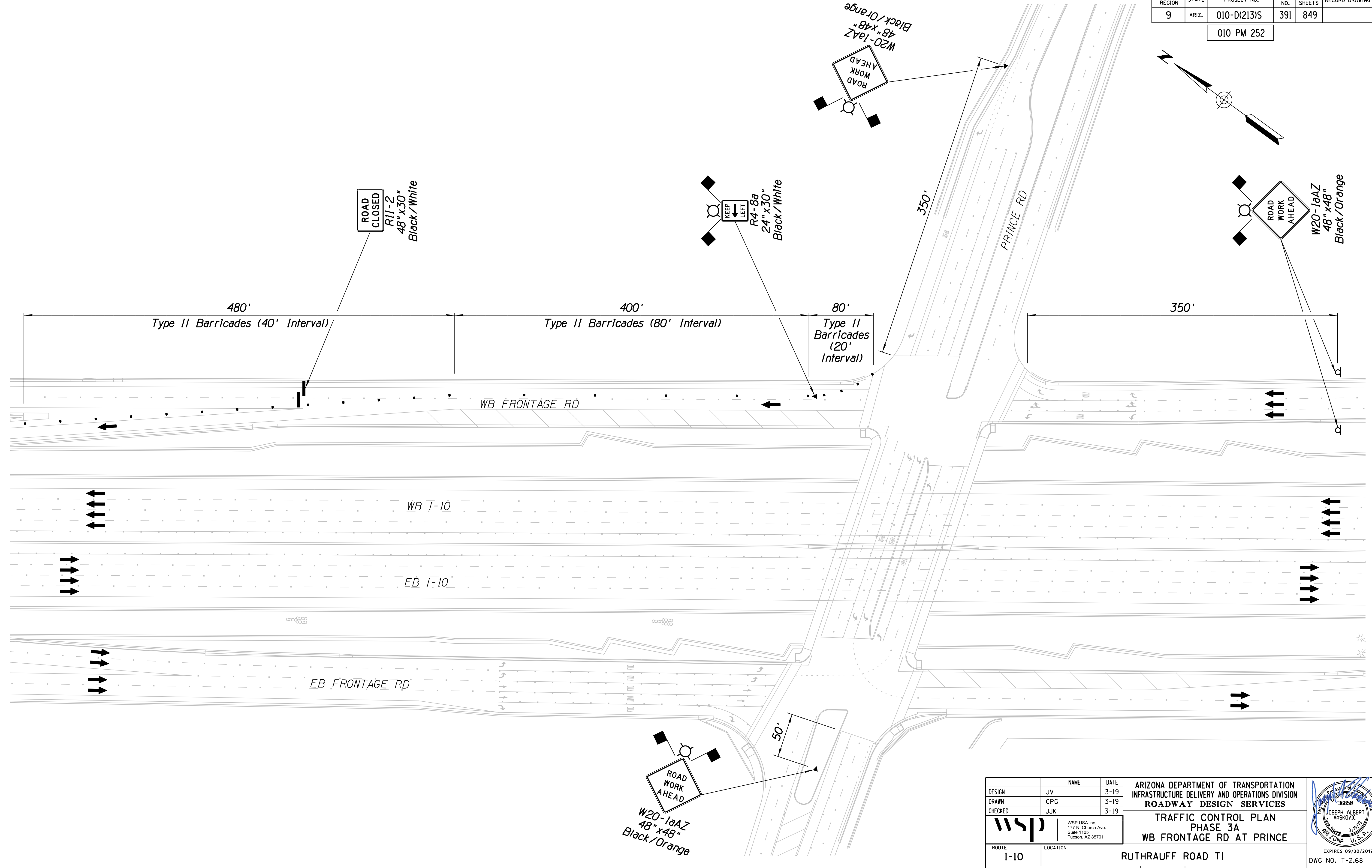
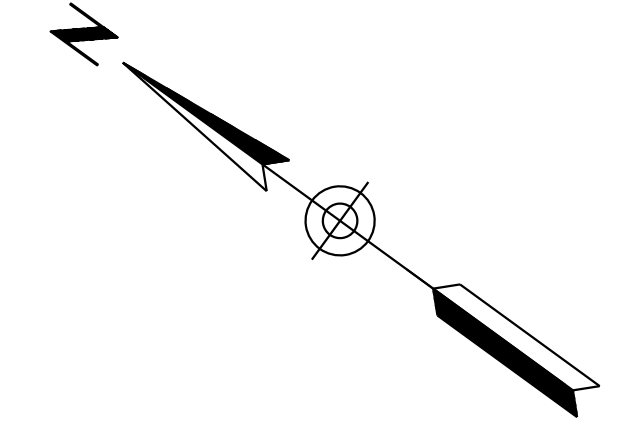
Notes:  
 1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>STA 108+00 to 122+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE <b>1-10</b>		LOCATION <b>RUTHRAUFF ROAD TI</b>	
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. T-2.67 <b>OF</b>

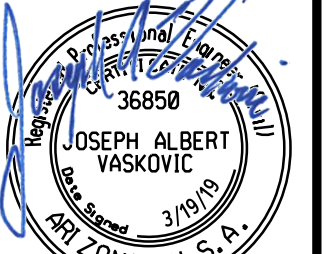
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	391	849	

010 PM 252

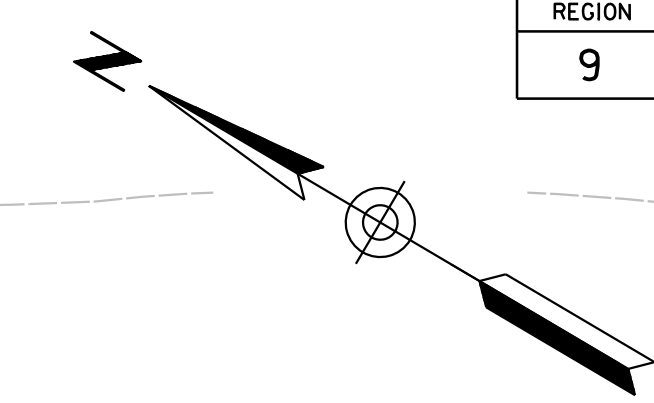


DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
CHECKED	JJK	3-19	
			<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3A</b> <b>WB FRONTAGE RD AT PRINCE</b>
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-2,68	
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	
		OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	392	849	

010 PM 252

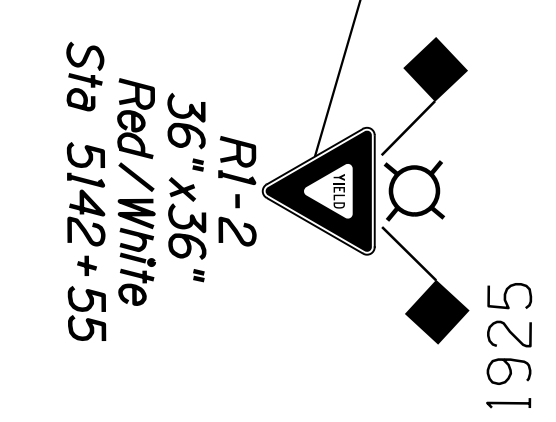
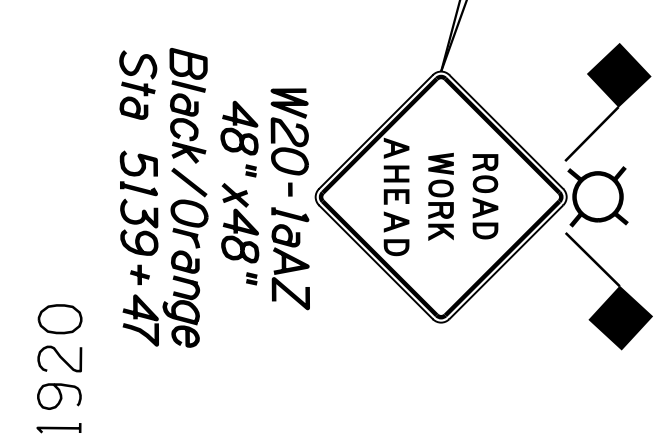
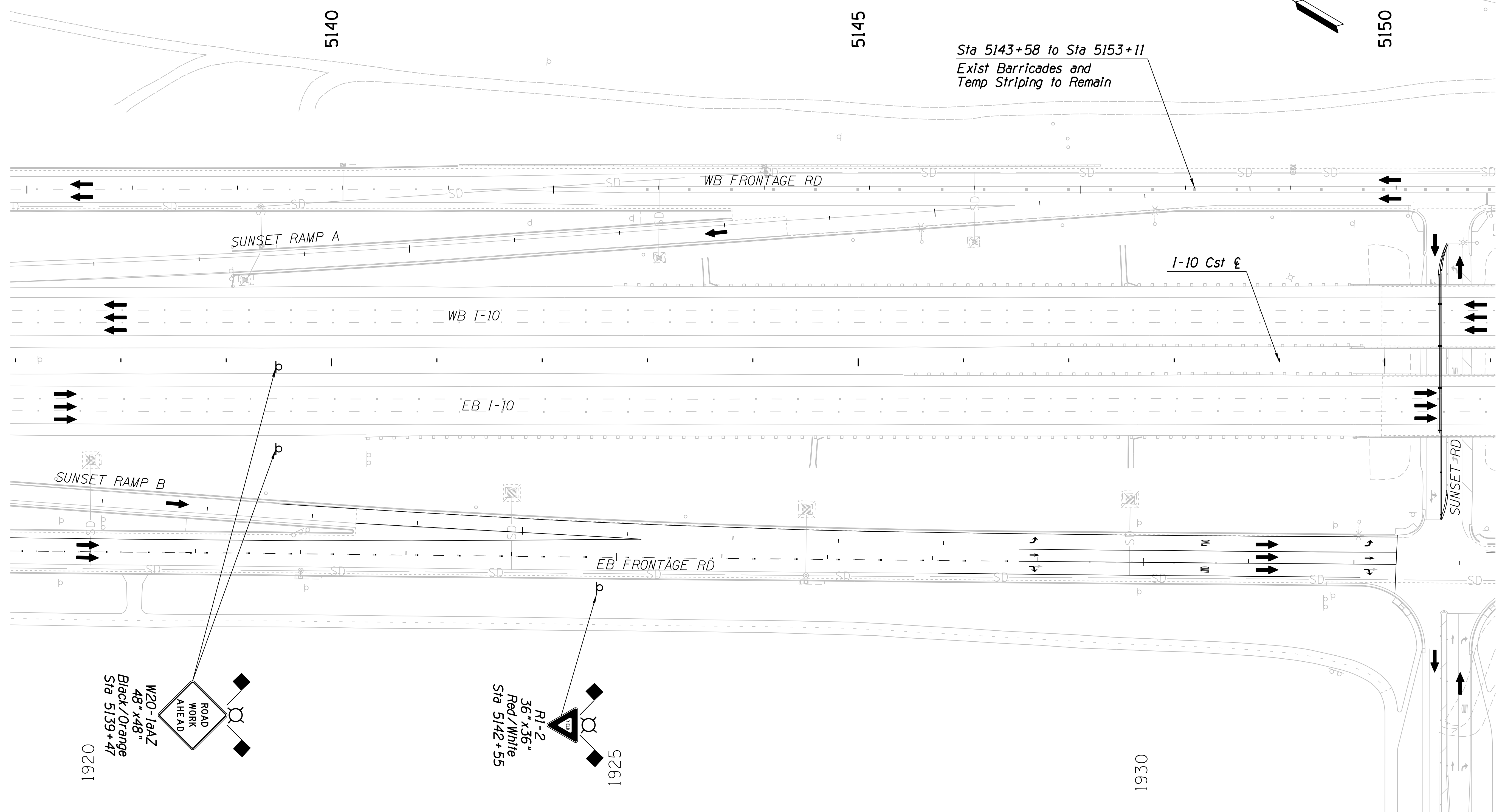


5140

5145

5150

Sta 5143+58 to Sta 5153+11  
Exist Barricades and  
Temp Striping to Remain



1920

1925

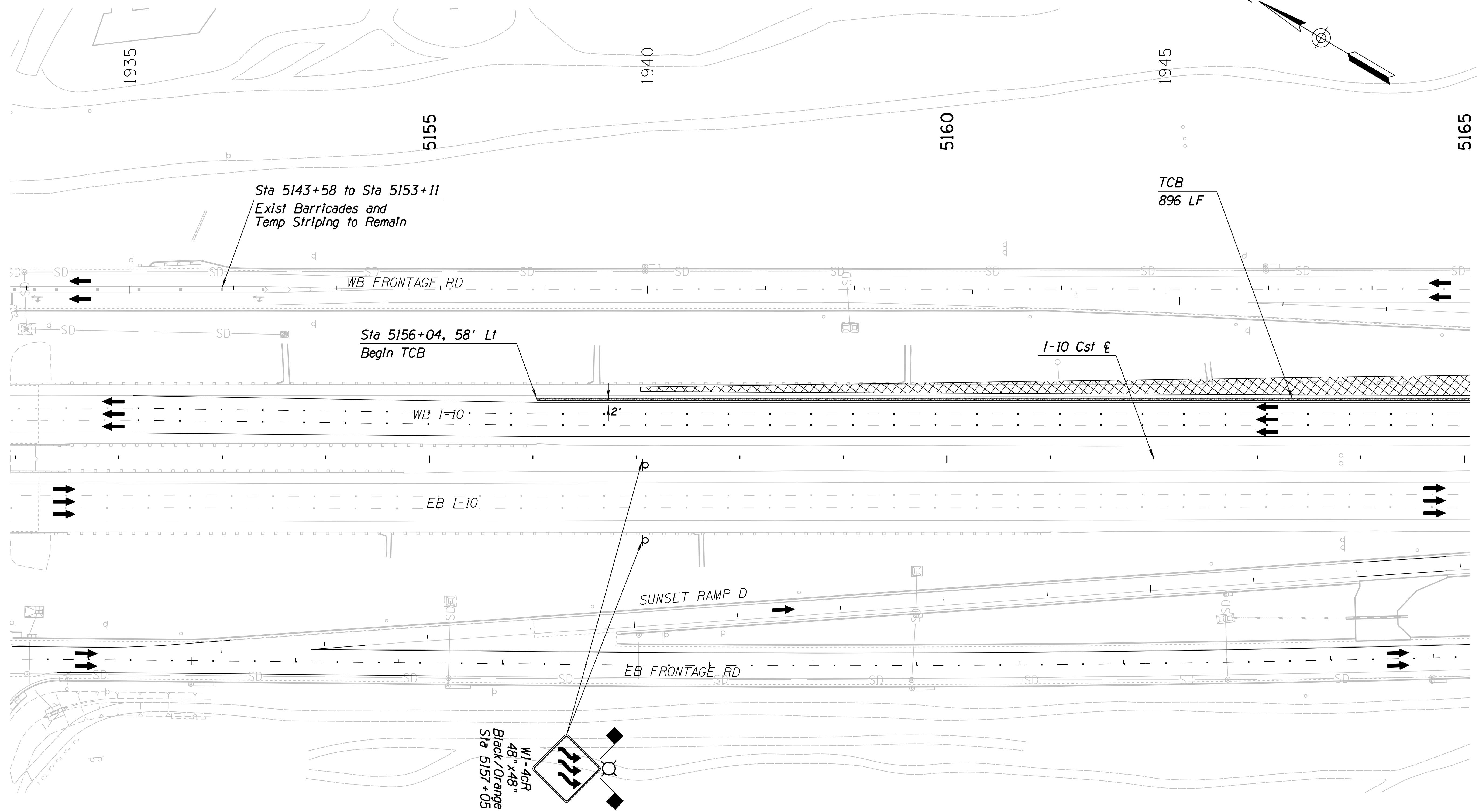
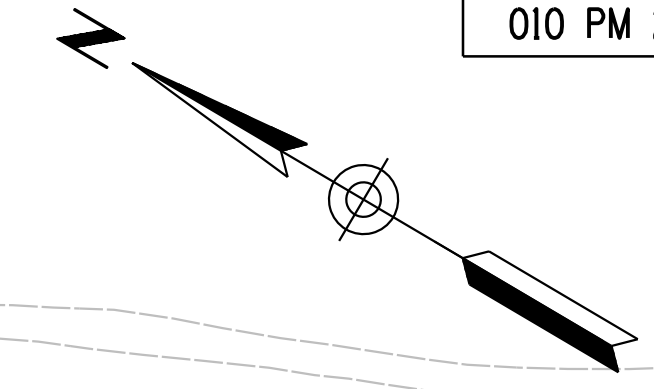
1930

Notes:  
1. All Stations & Offsets are to the  
I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5137+00 to 5151+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2.69 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	393	849	

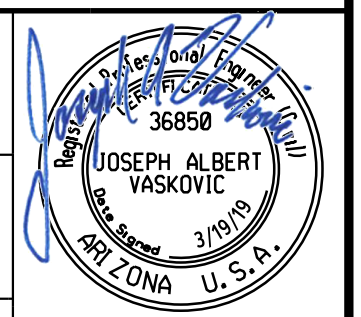
010 PM 252



W1-4CR  
48" x 48"  
Black/Orange  
Sta 5157+05

Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

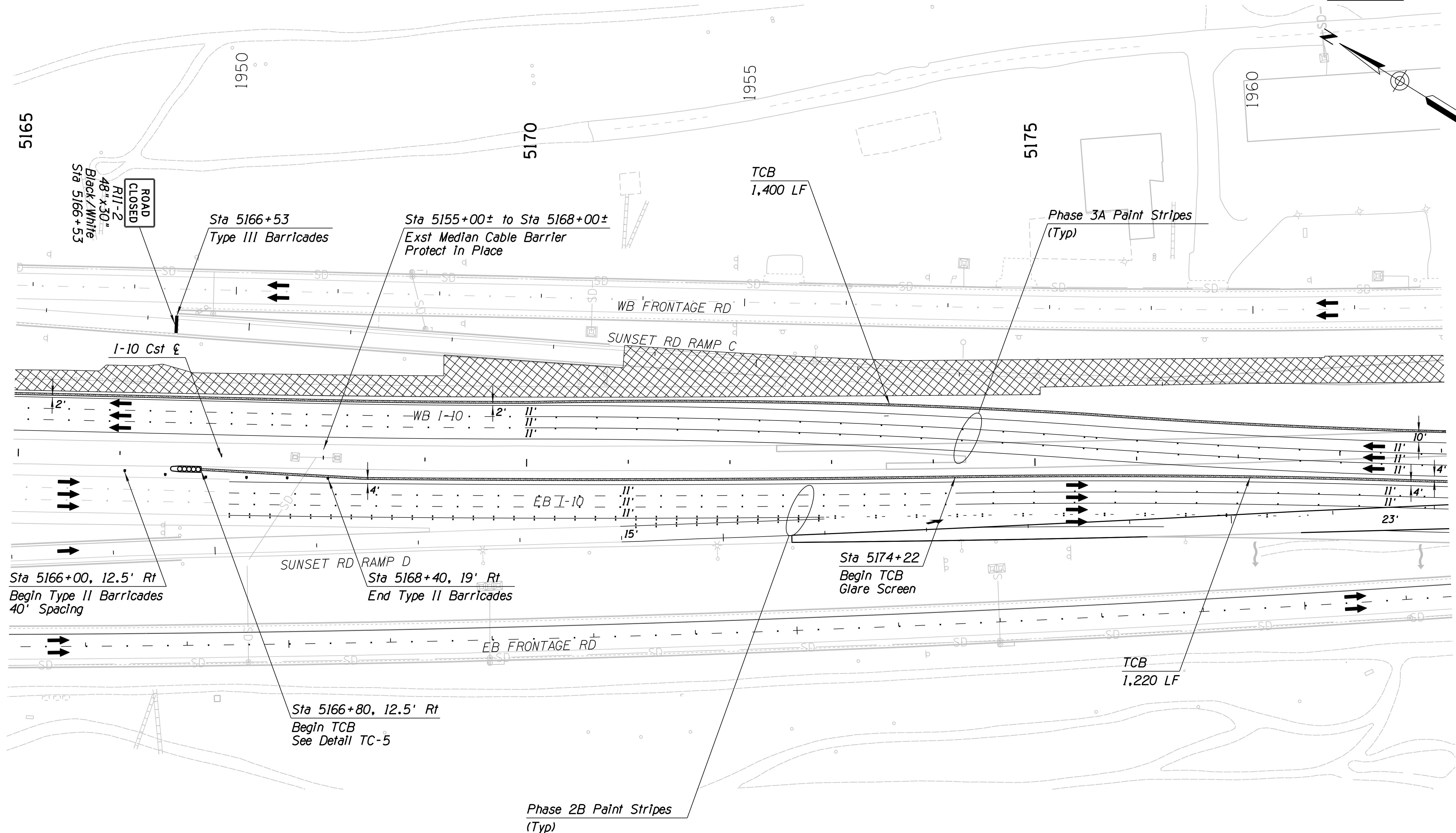
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
JJK		3-19	
			<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5151+00 to 5165+00</b>
<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>			
ROUTE	LOCATION	<small>EXPIRES 09/30/2019</small> DWG NO. T-2.70	
I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC	010-D(213)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-D(213)S	394	849	

010 PM 252



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

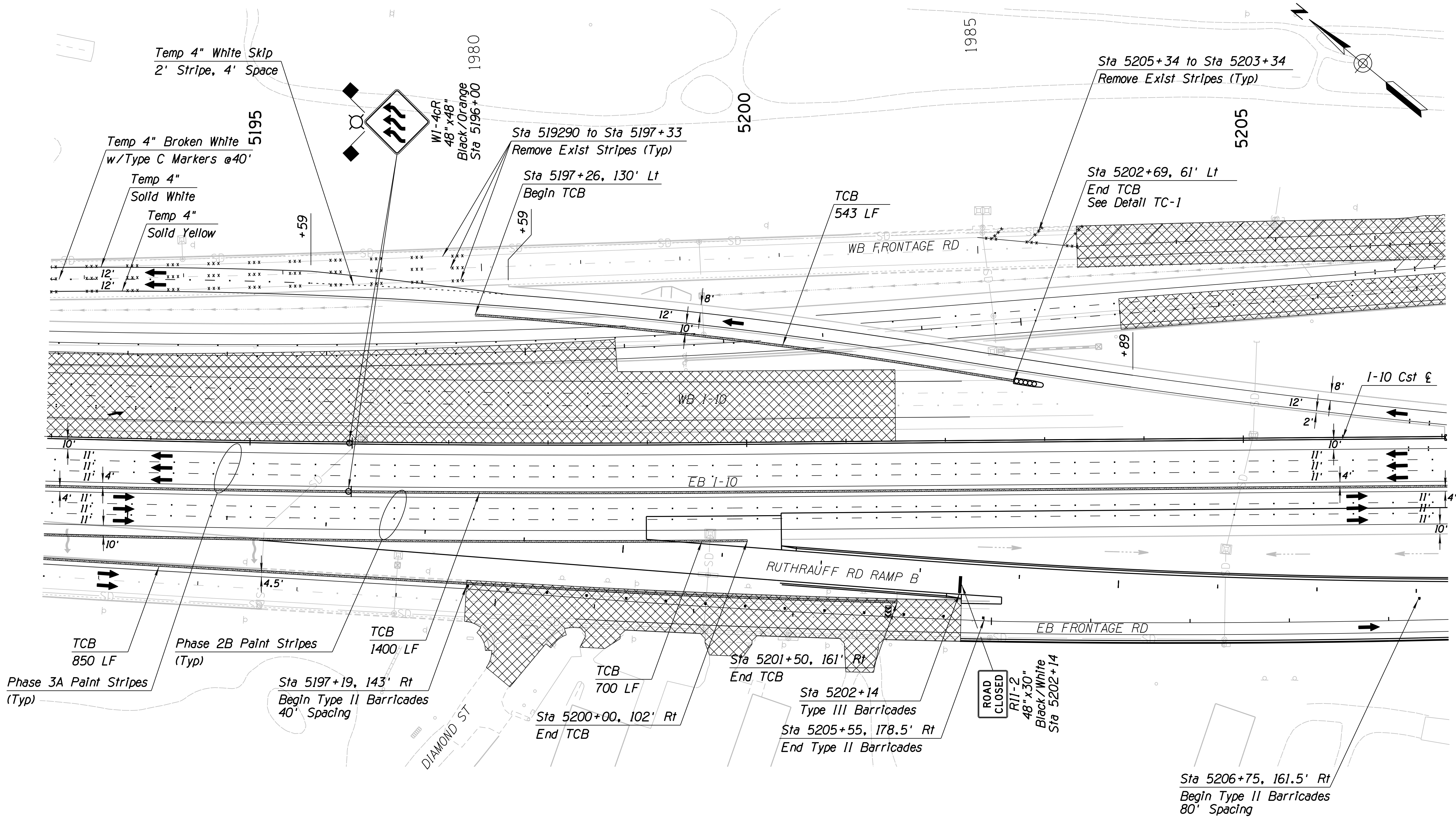
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5165+00 to 5179+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.71	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	396	849	

010 PM 252



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> PHASE 3B Sta 5193+00 to 5207+00
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2.73 OF

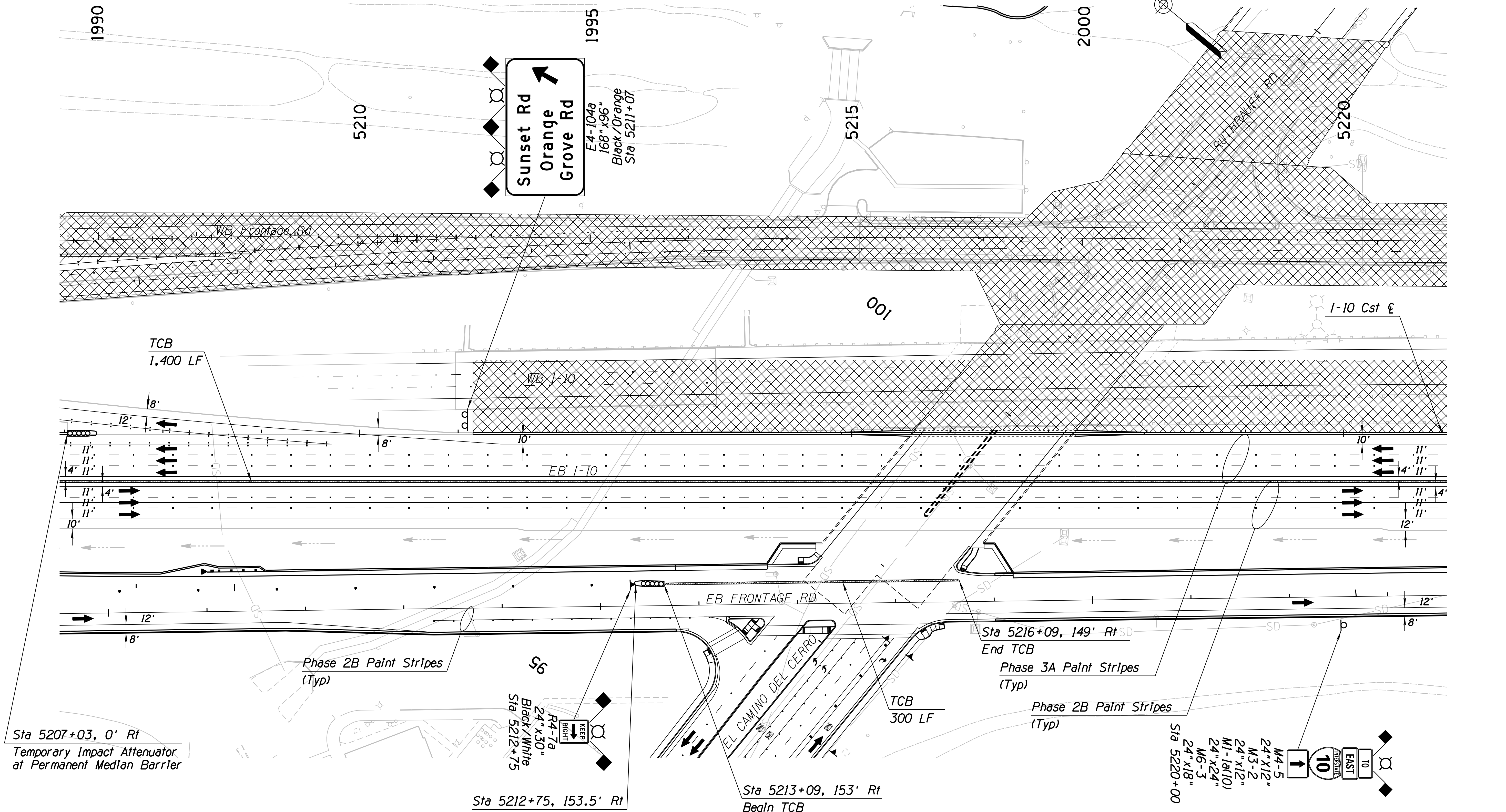
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	397	849	

010 PM 252



Sta 5207+03, 0' Rt  
Temporary Impact Attenuator  
at Permanent Median Barrier

R4-7a  
24" x 30"  
Black/White  
Sta 5212+75

Sta 5212+75, 153.5' Rt  
End Type II Barricades

Sta 5213+09, 153' Rt  
Begin TCB  
See Detail TC-1

Sta 5216+09, 149' Rt SD  
End TCB  
Phase 3A Paint Stripes  
(Typ)

Phase 2B Paint Stripes  
(Typ)

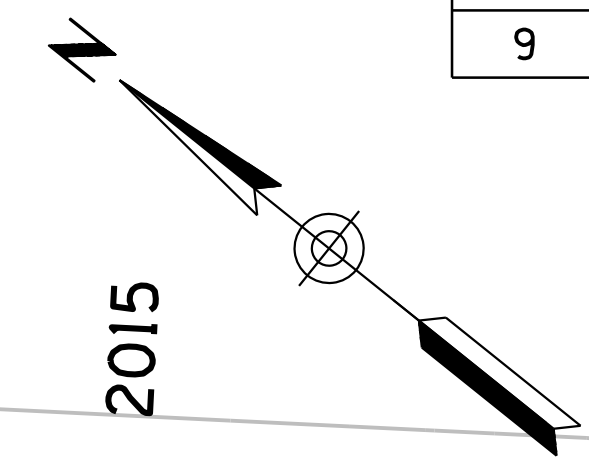
Sta 5220+00  
M4-5  
24" x 12"  
M3-2  
24" x 12"  
M1-1a(10)  
24" x 24"  
M6-3  
24" x 18"

Notes:  
1. All Stations & Offsets are to the  
I-10 Cst & Unless Otherwise Noted.

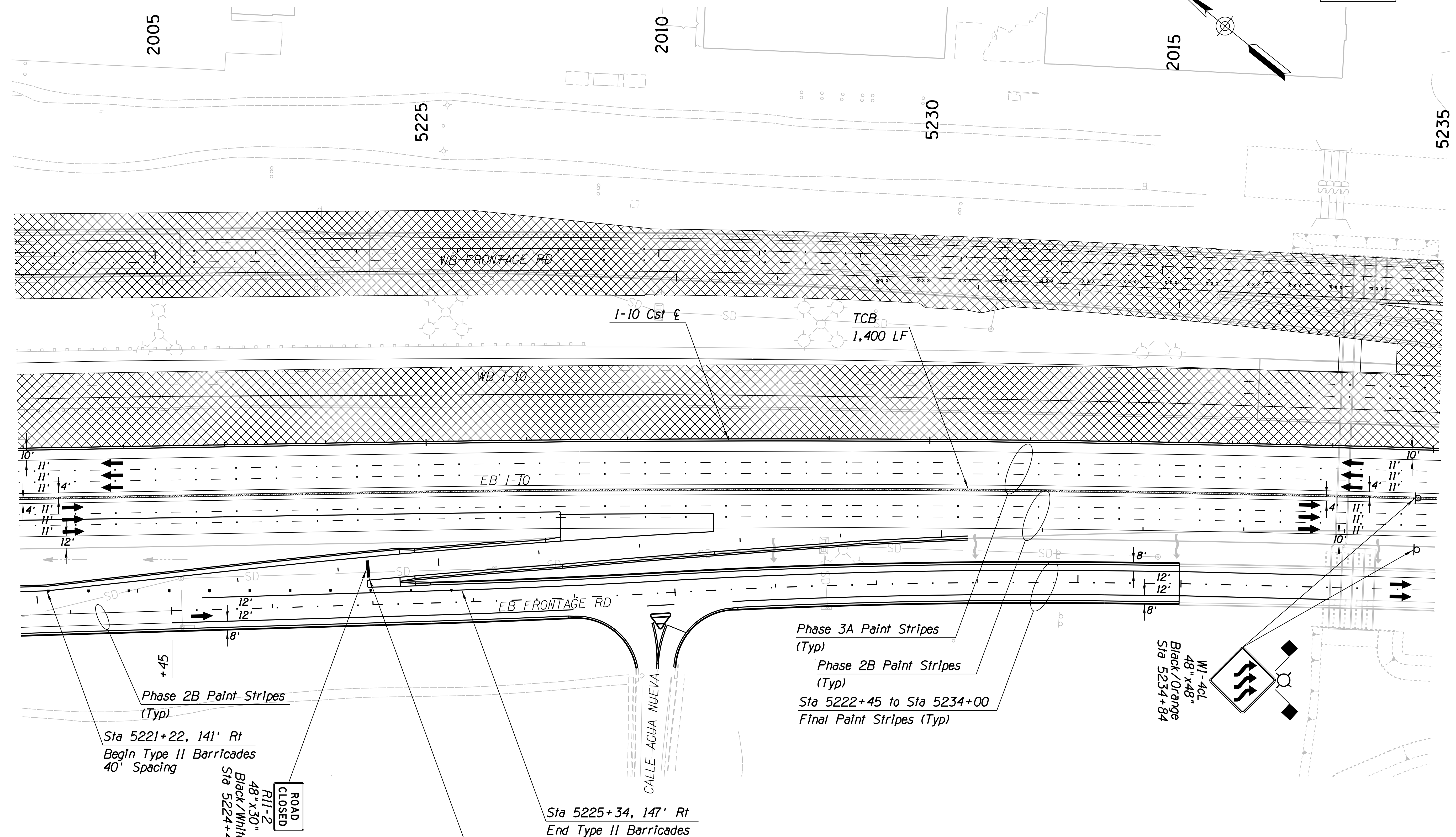
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5207+00 to 5221+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.74	
ROUTE	LOCATION		1-10 RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	398	849	

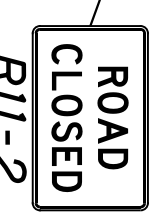
010 PM 252



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



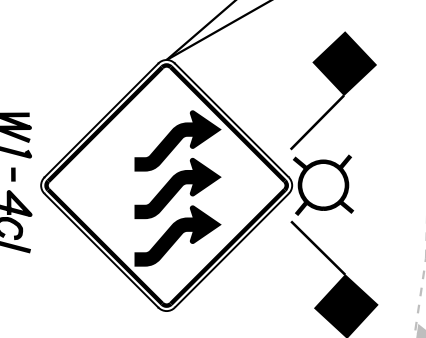
Phase 2B Paint Stripes (Typ)  
 Sta 5221+22, 141' Rt  
 Begin Type II Barricades  
 40' Spacing  
 48" x 48" R11-2  
 Black/White  
 Sta 5224+40



Sta 5225+34, 147' Rt  
 End Type II Barricades  
 Sta 5224+40  
 Type III Barricades

Phase 3A Paint Stripes (Typ)  
 Phase 2B Paint Stripes (Typ)  
 Sta 5222+45 to Sta 5234+00  
 Final Paint Stripes (Typ)

W1-4CL  
 48" x 48"  
 Black/Orange  
 Sta 5234+84

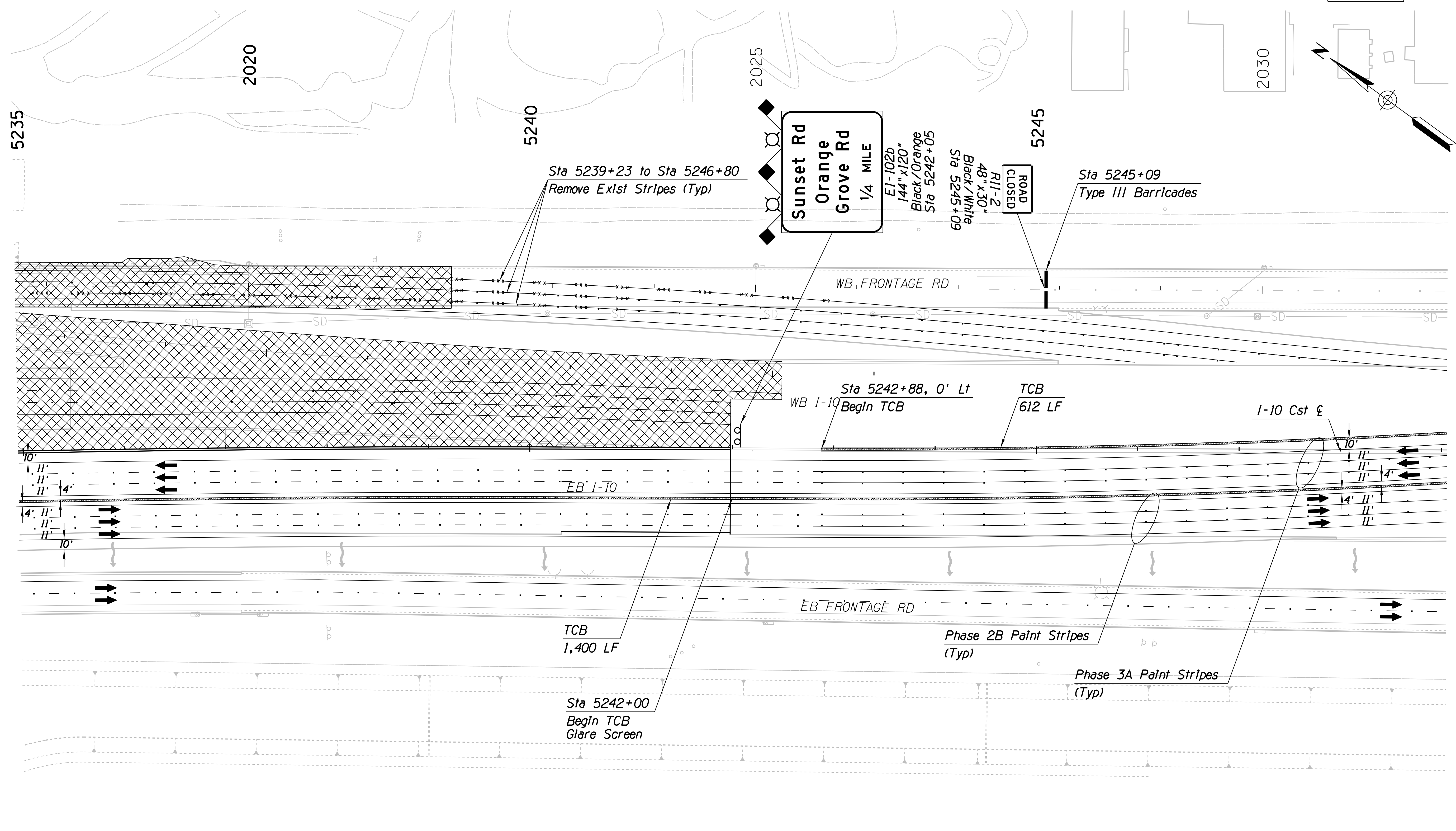


Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
ROUTE		LOCATION		TRAFFIC CONTROL PLAN PHASE 3B Sta 5221+00 to 5235+00	
I-10		RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-2.75	
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	399	849	

010 PM 252



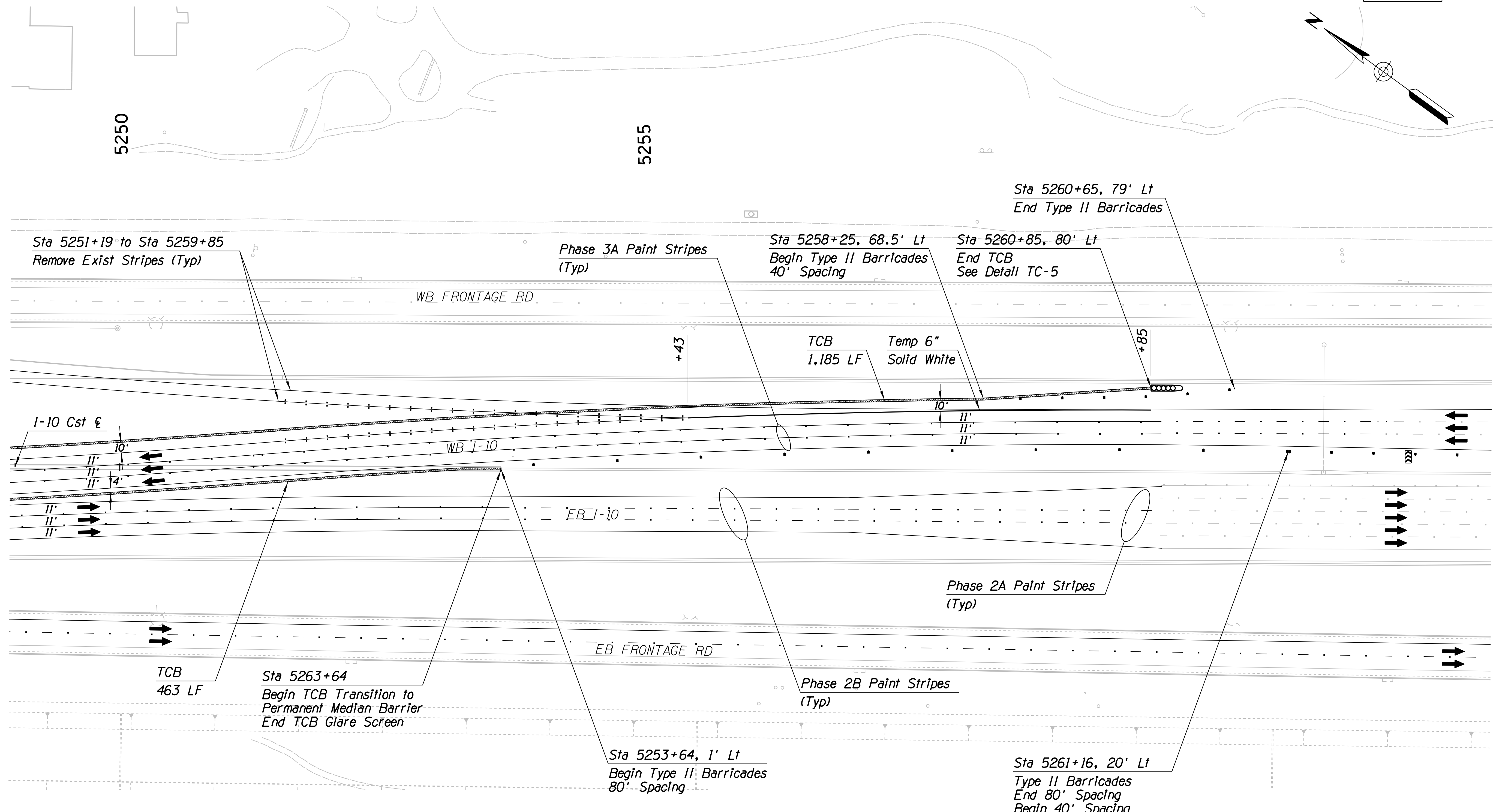
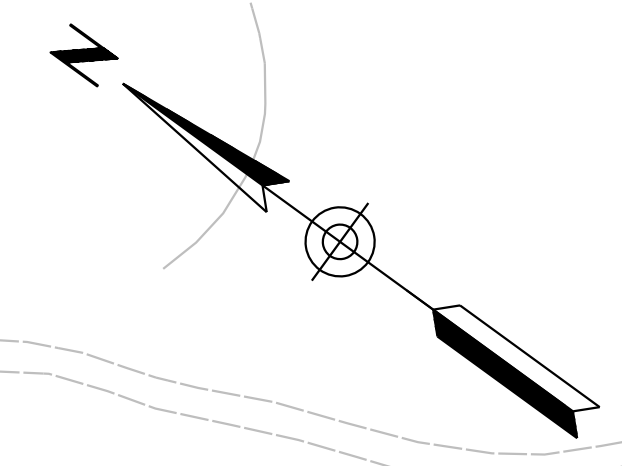
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN: JV DRAWN: CPG CHECKED: JJK		NAME: [Blank] DATE: 3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5235+00 to 5249+00</b>	
		ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2.76 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	400	849	

010 PM 252



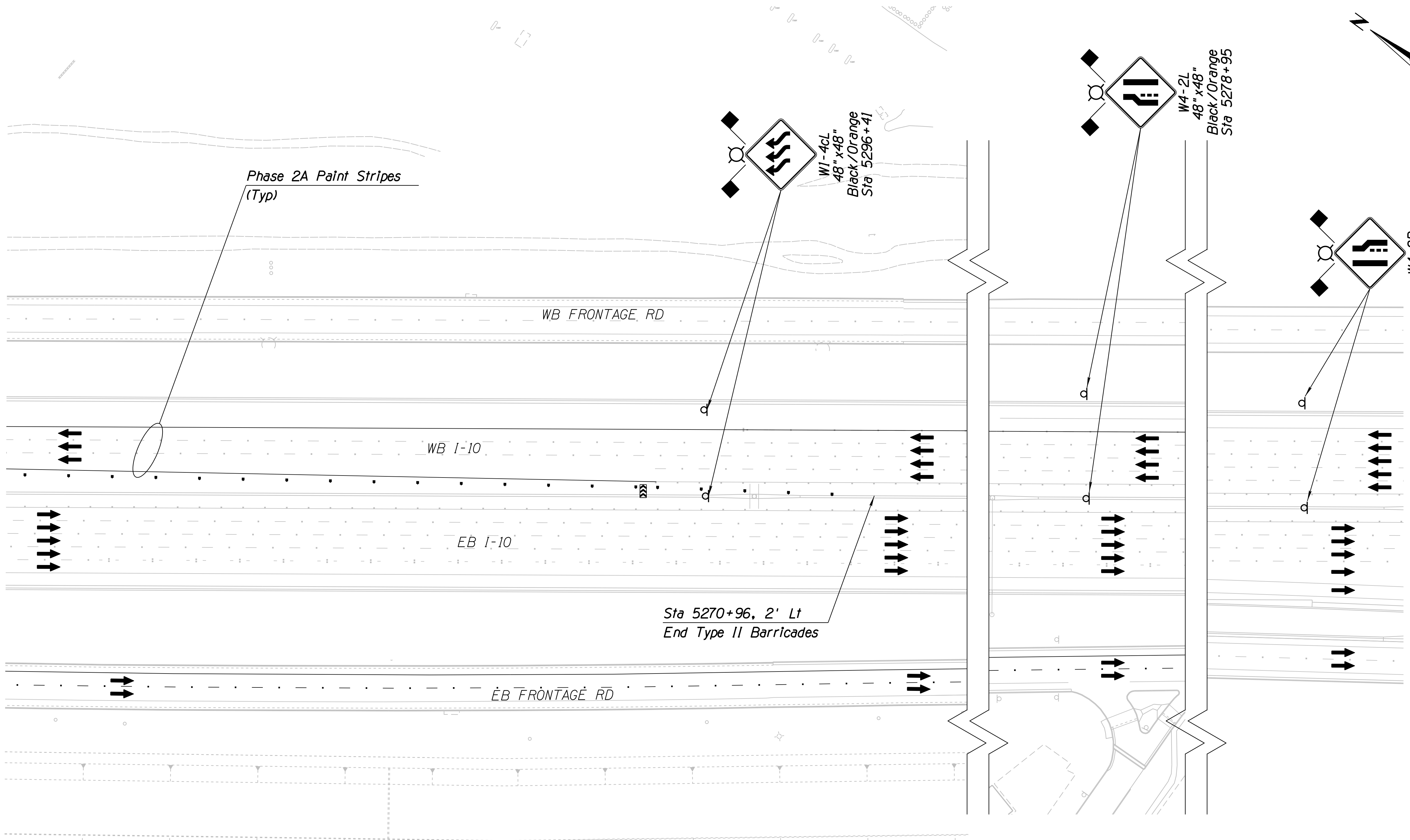
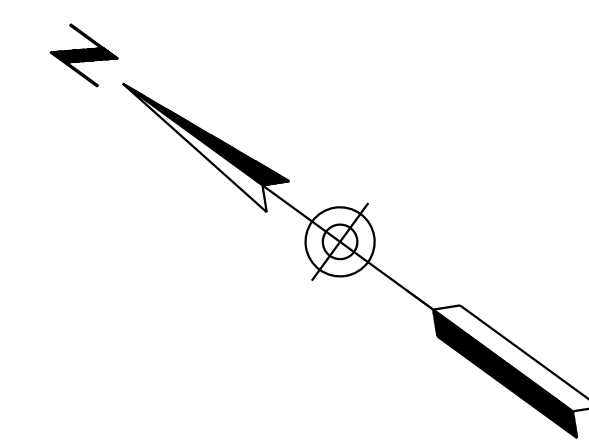
SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.77	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC			010-D(213)S	OF

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	401	849	

010 PM 252



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

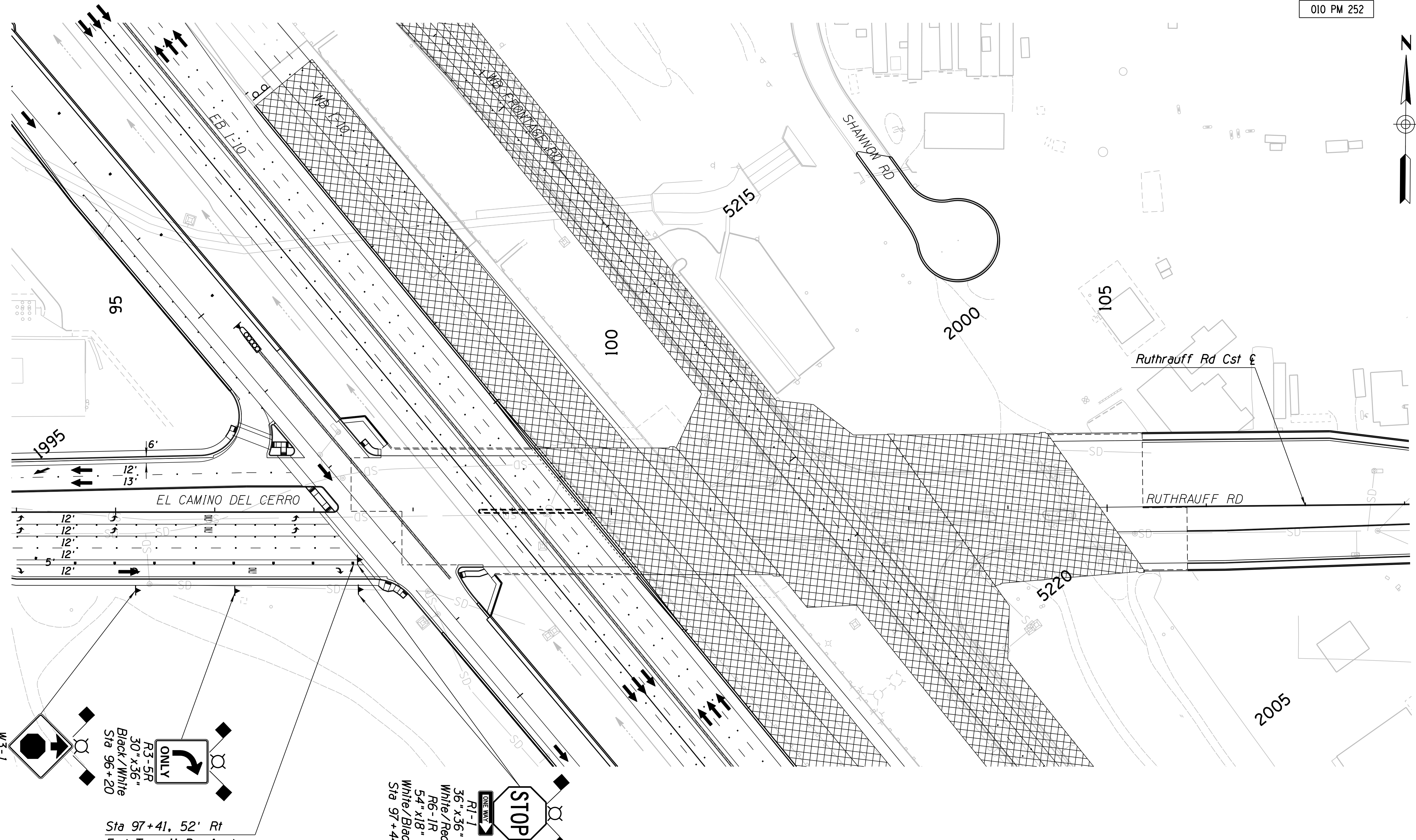
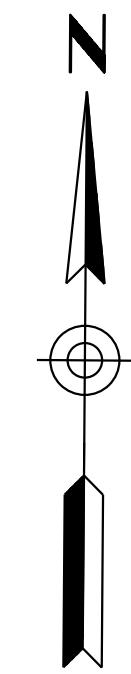
**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN		JV	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> Sta 5263+00 to 5277+00	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.78	
ROUTE	LOCATION	RUTHRAUFF ROAD TI			
TRACS NO. H 8480 OIC		010-D(213)S			OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	403	849	

010 PM 252



W3-1  
 48" x 48"  
 Black / Orange  
 Sta 95+20

R3-5R  
 30" x 36"  
 Black / White  
 Sta 96+20

ONLY

Sta 97+41, 52' Rt  
 End Type II Barricades

R1-1  
 36" x 36"  
 White / Red  
 R6-1R  
 54" x 18"  
 White / Black  
 Sta 97+44

STOP

Notes:

1. All Stations & Offsets are to the Ruthrauff Cst & Unless Otherwise Noted.

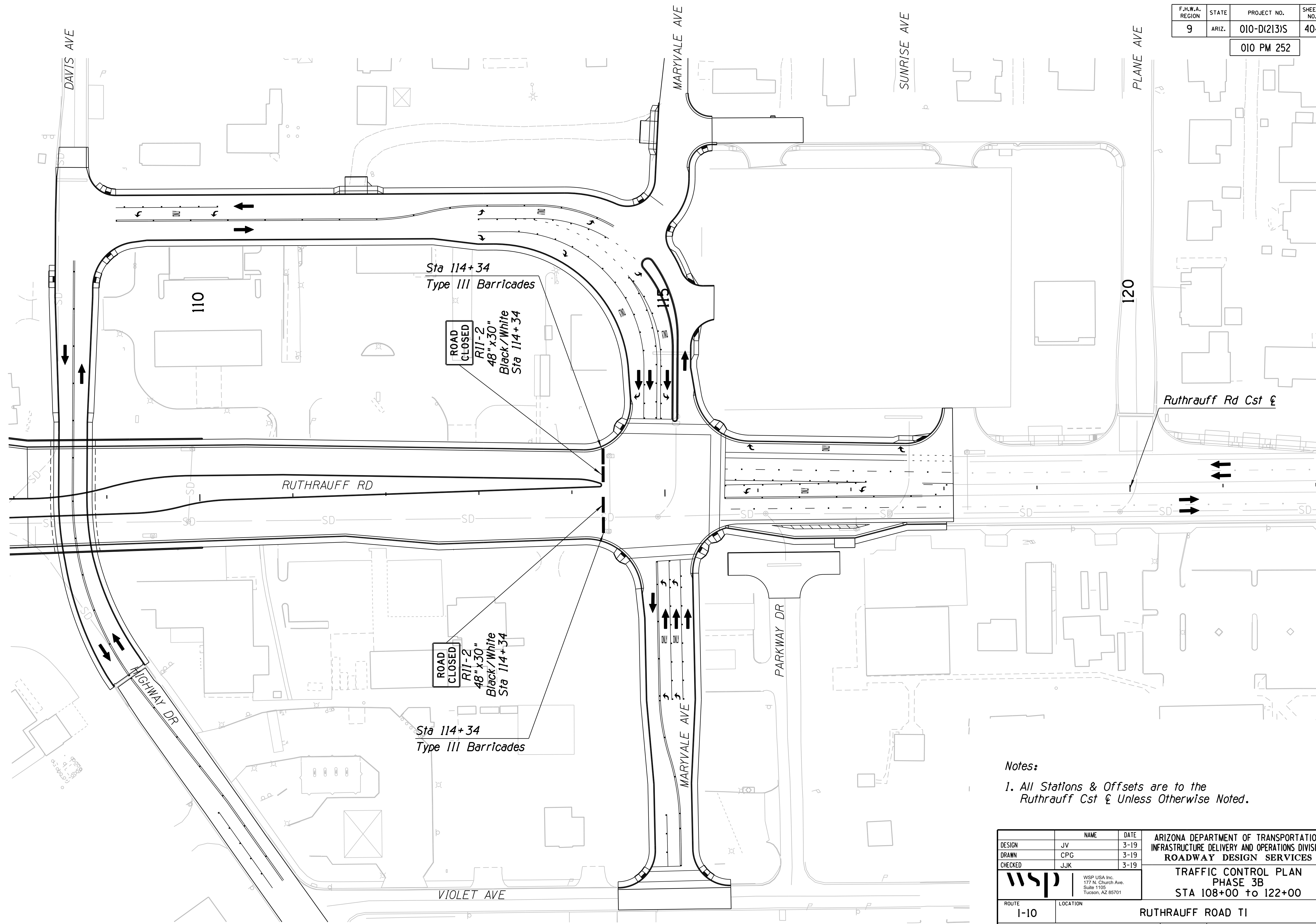
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
JJK		3-19	
			<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3B</b> <b>STA 94+00 to 108+00</b>
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-2.80	
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	
		OF	

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

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	404	849	

010 PM 252



Ruthrauff Rd Cst E

Notes:  
 1. All Stations & Offsets are to the Ruthrauff Cst E Unless Otherwise Noted.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  TRAFFIC CONTROL PLAN PHASE 3B STA 108+00 to 122+00
DESIGN	JV	3-19	
DRAWN	CPG	3-19	
CHECKED	JJK	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			JOSEPH ALBERT VASKOVIC 36850 STATE OF ARIZONA U.S.A. EXPIRES 09/30/2019 DWG NO. T-2.81
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	OF

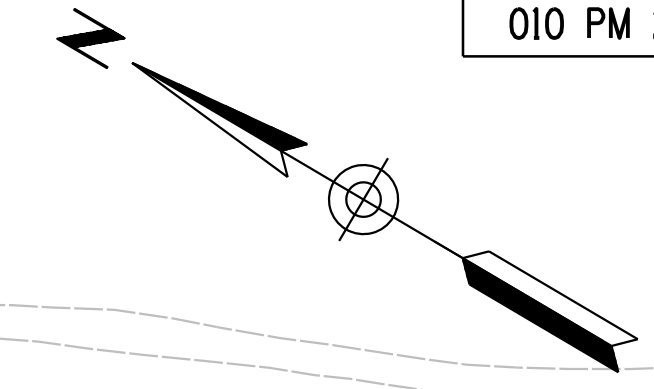




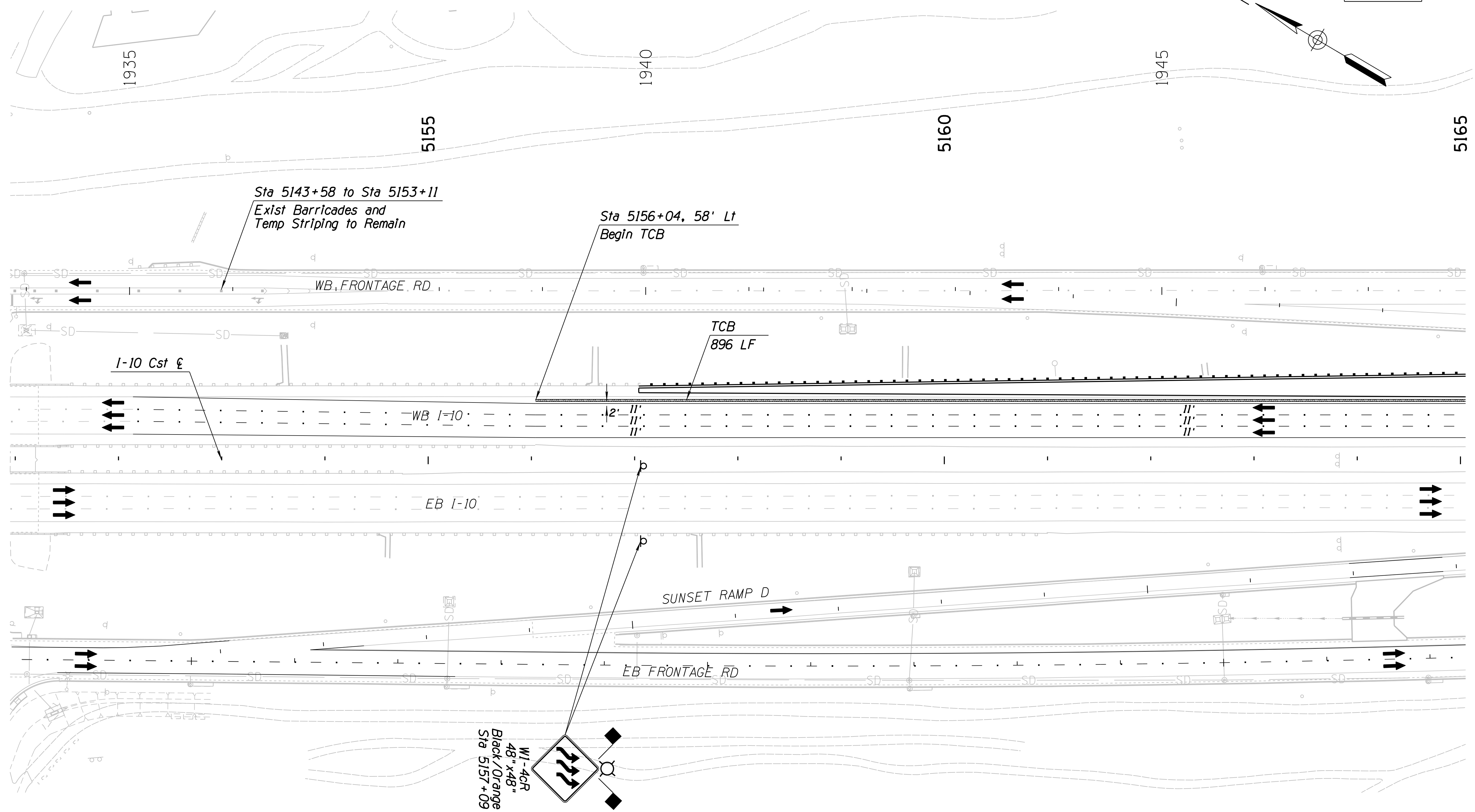


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	407	849	

010 PM 252



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

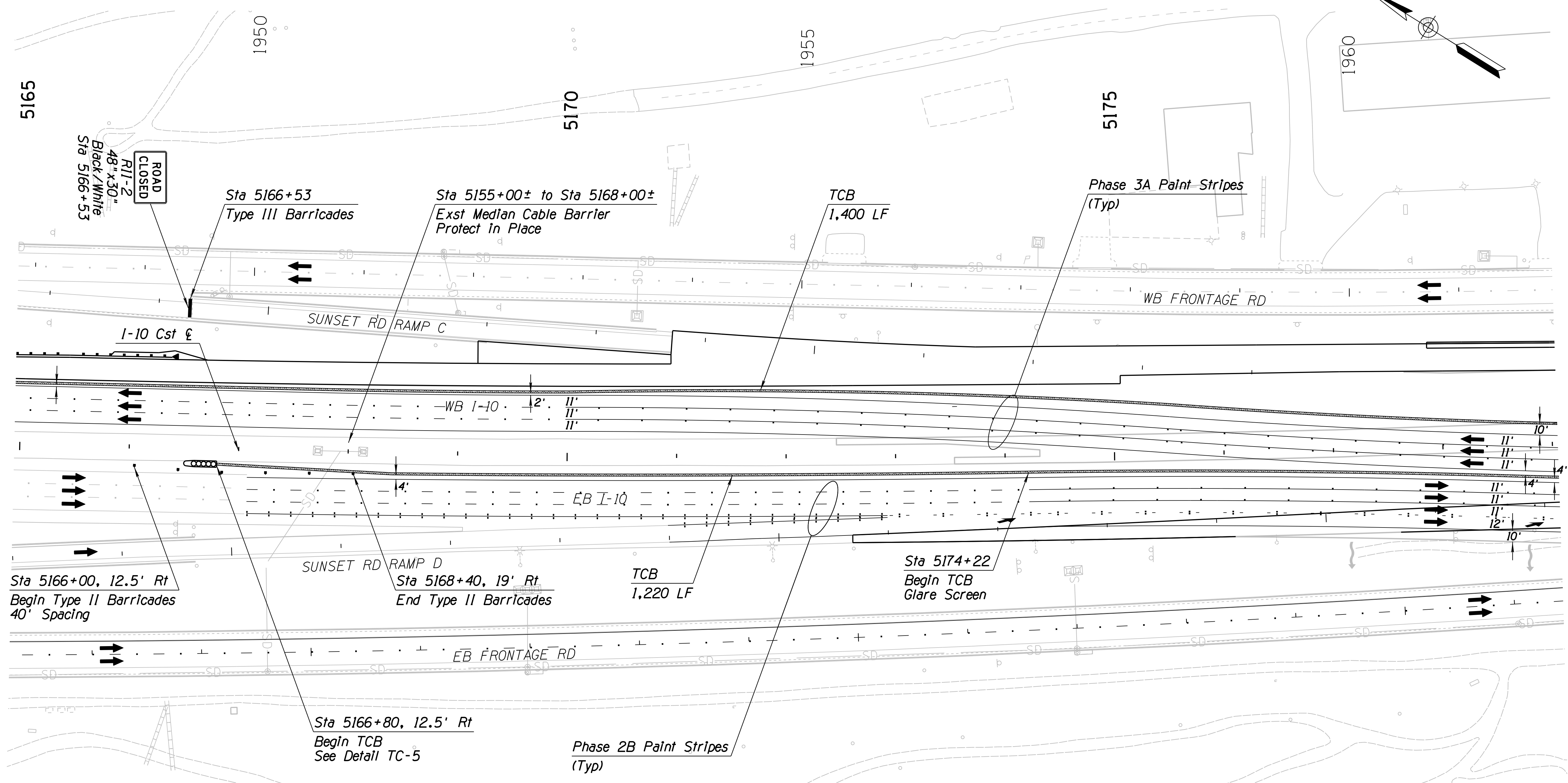
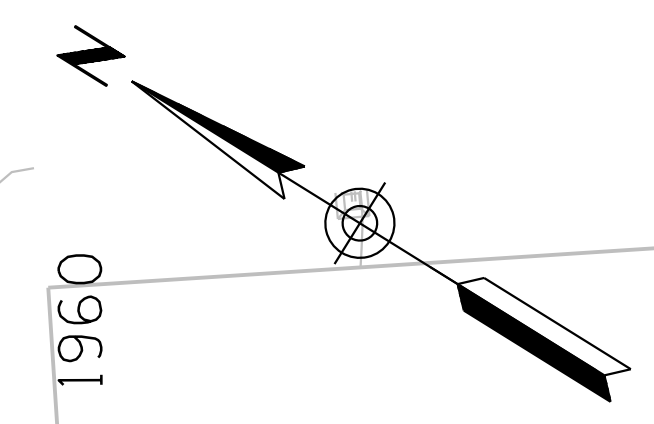


**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5151+00 to 5165+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10      LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC      010-D(213)S      DWG NO. T-2,84      OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	408	849	

010 PM 252



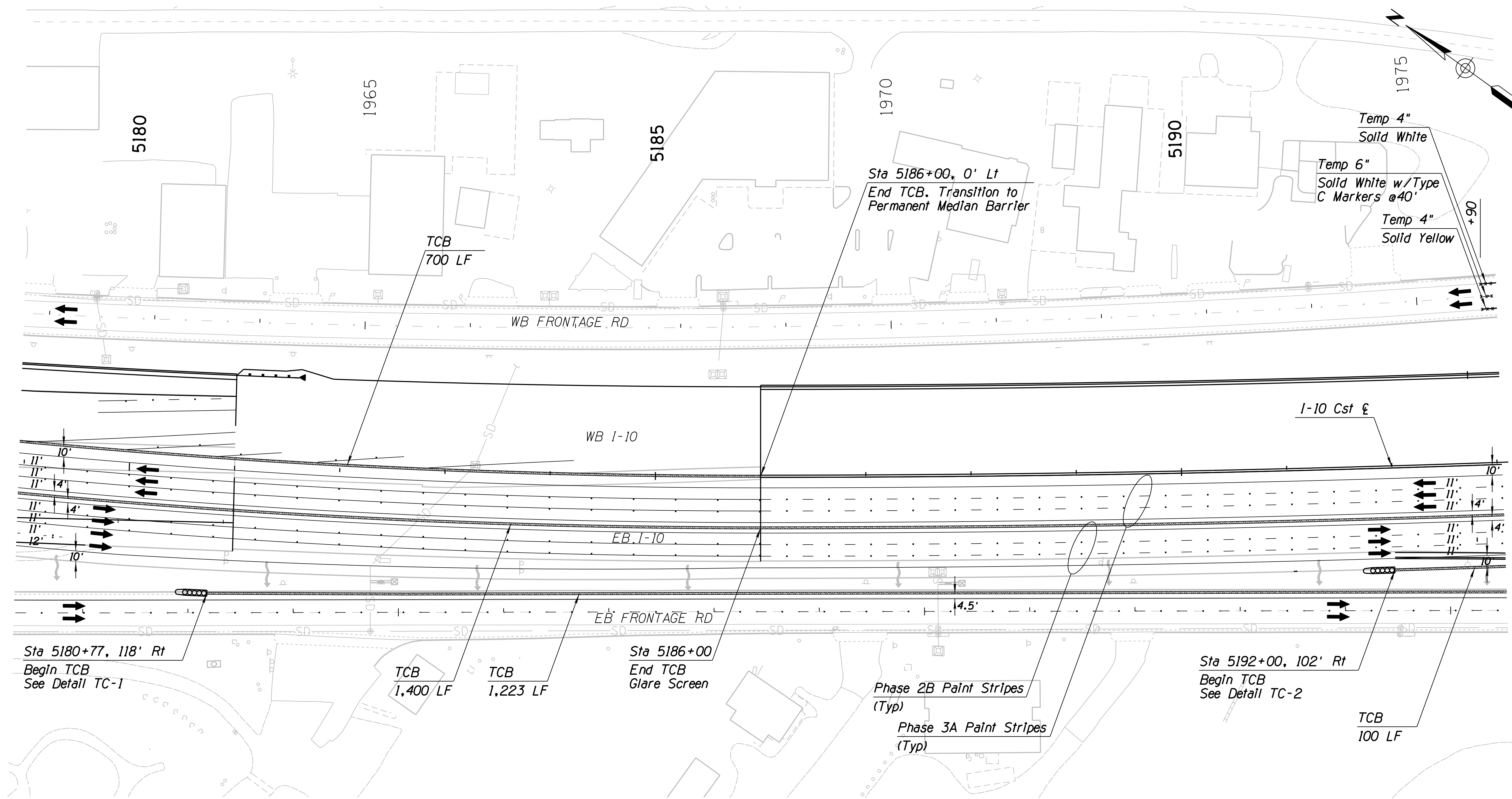
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5165+00 to 5179+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.85	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	409	849	

010 PM 252



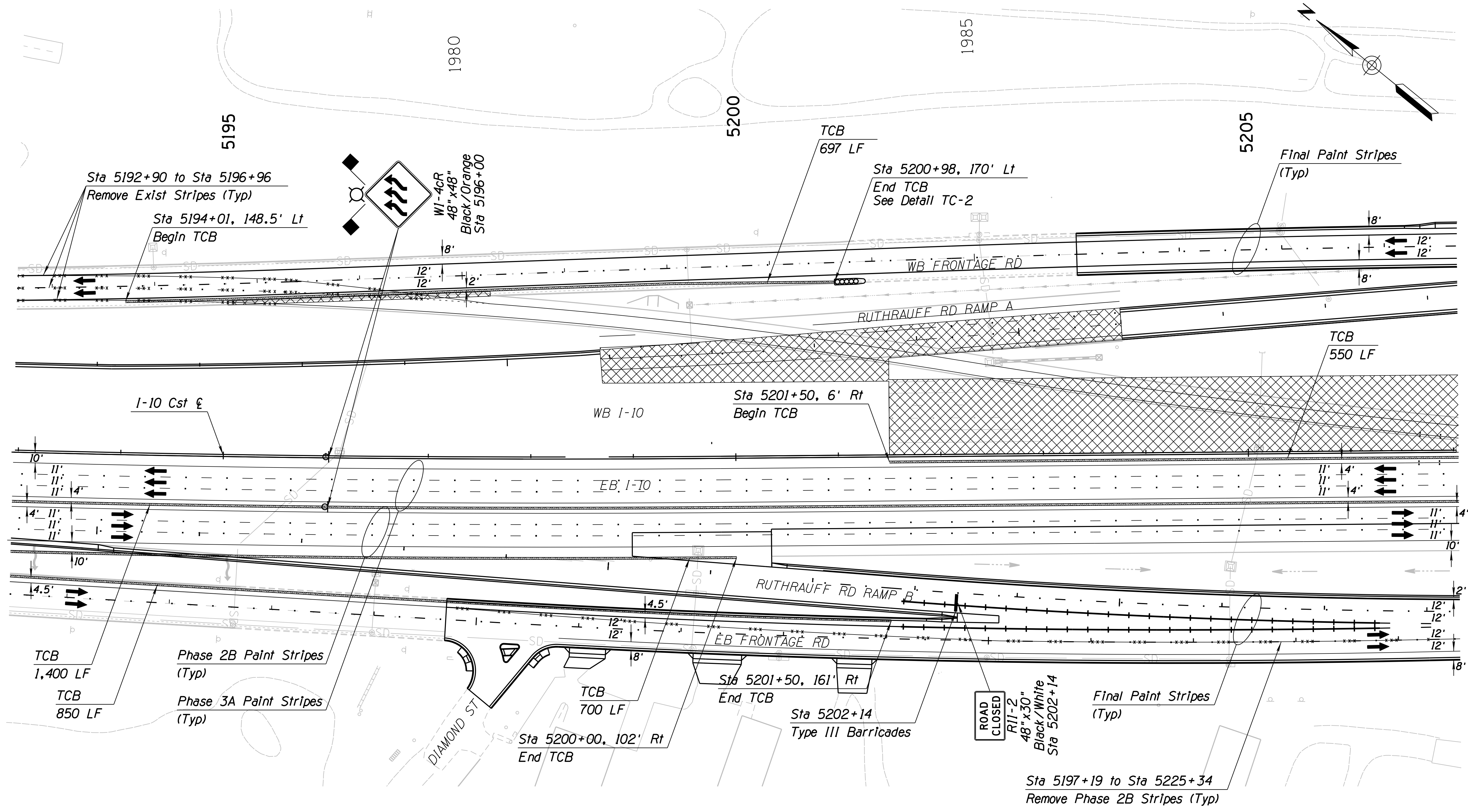
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5179+00 to 5193+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE LOCATION: I-10 RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC PROJECT NO. 010-D(213)S DWG NO. T-2,86 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	410	849	

010 PM 252



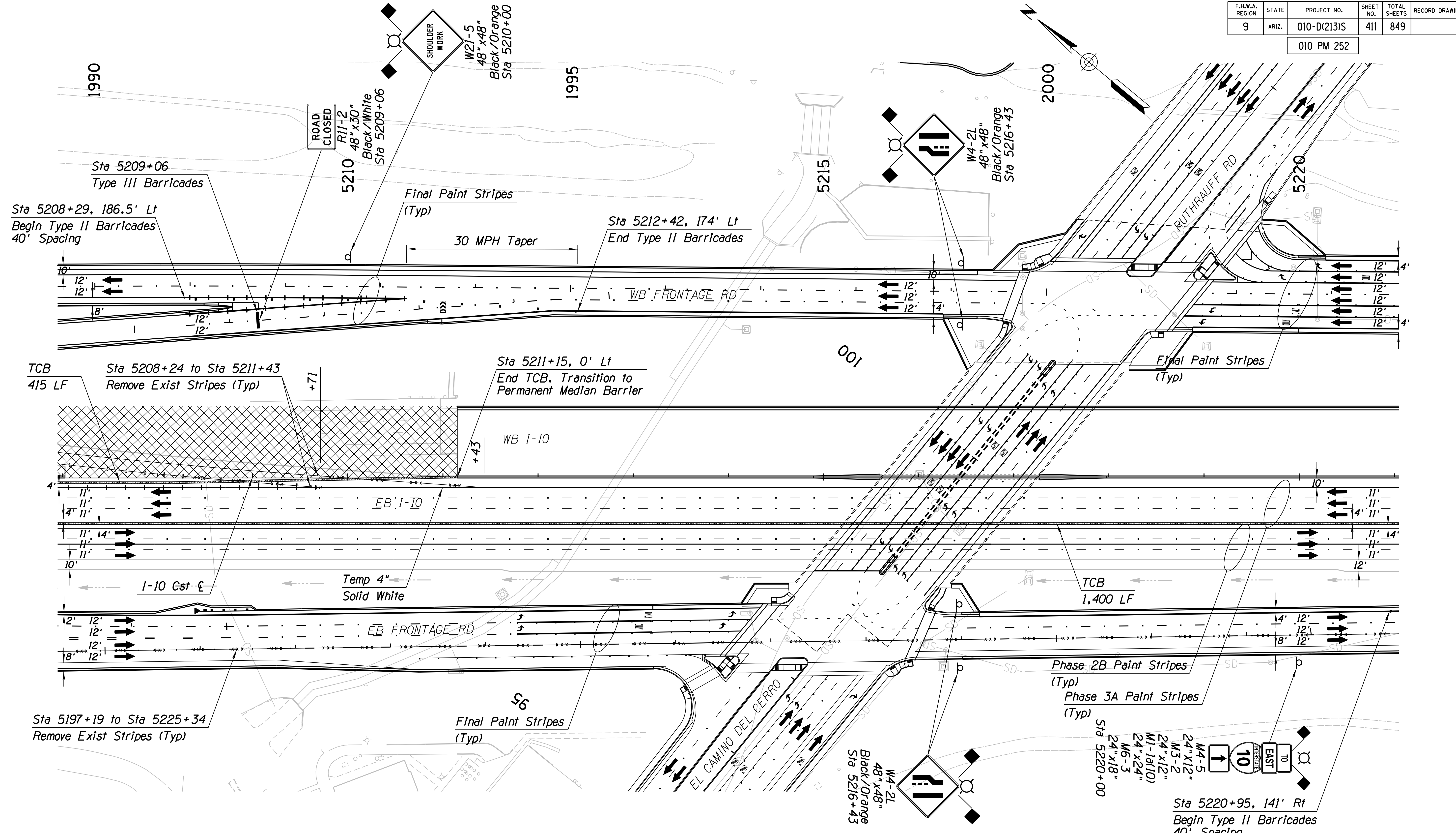
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO.

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5193+00 to 5207+00</b>	
DRAWN	CPG	3-19			
CHECKED	JJK	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.87	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	411	849	

010 PM 252



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5207+00 to 5221+00</b>
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-2.88 OF

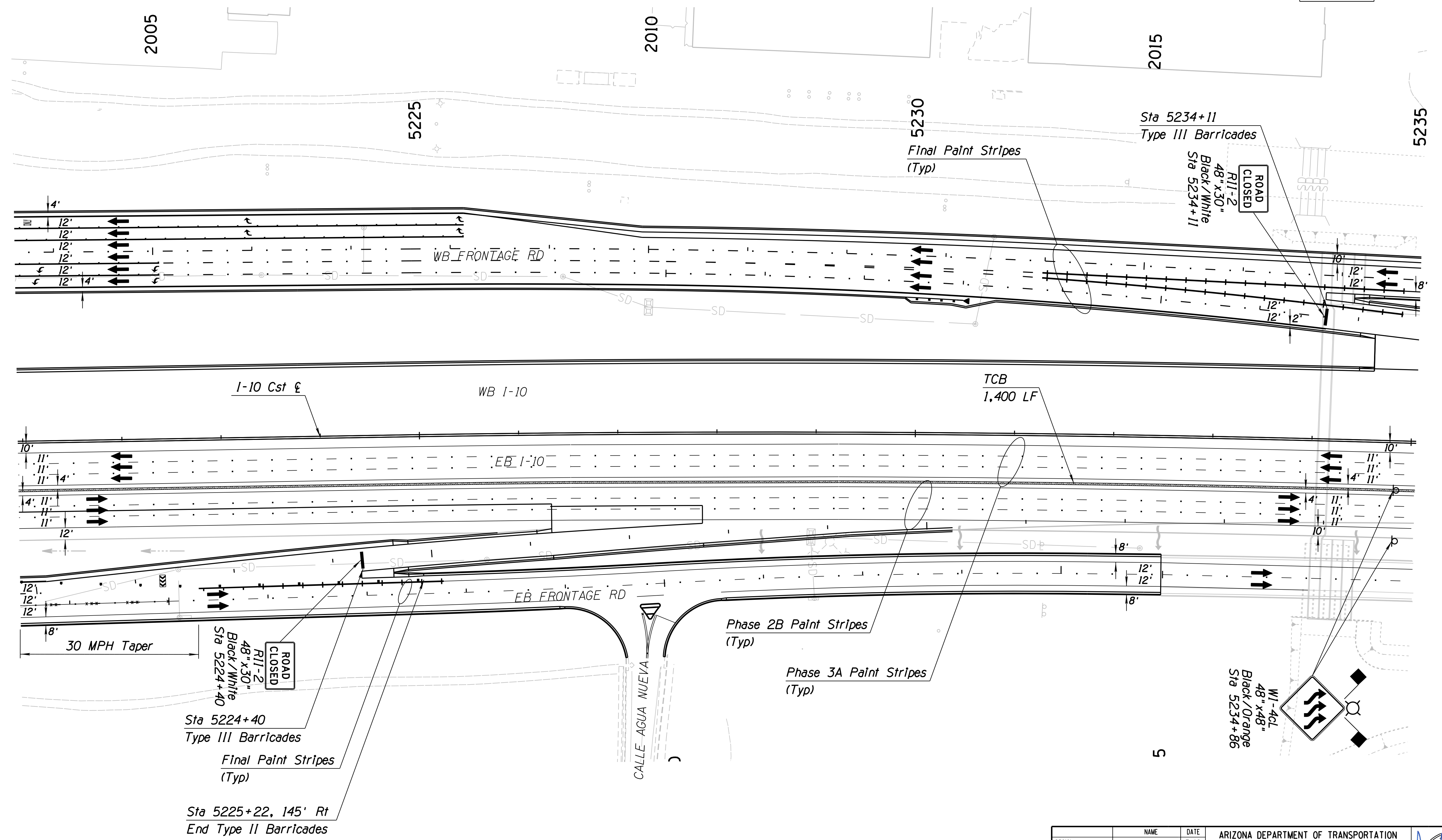
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	412	849	

010 PM 252

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



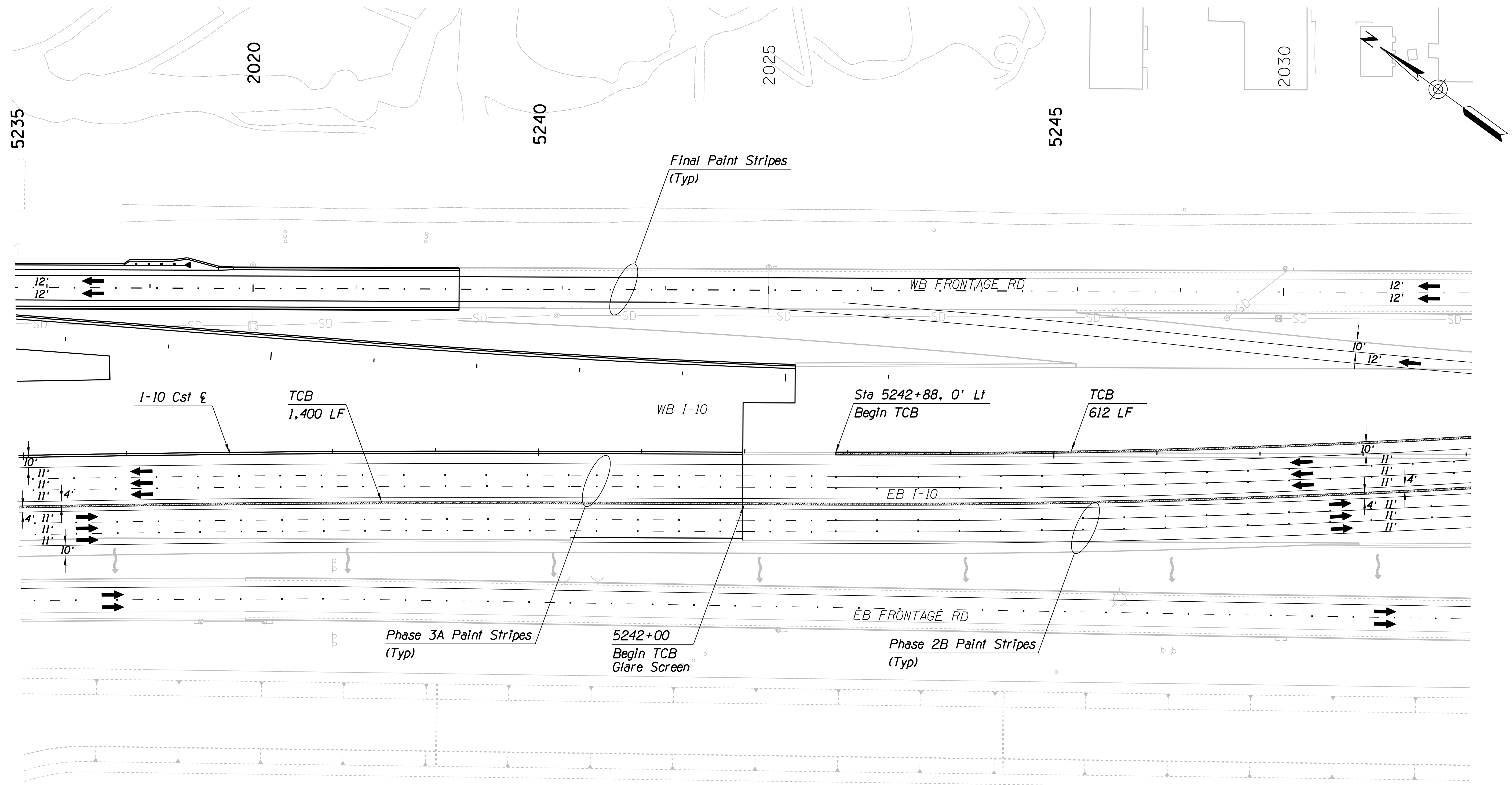
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> Sta 5221+00 to 5235+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI TRACS NO. H 8480 OIC PROJECT NO. 010-D(213)S DWG NO. T-2.89	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	413	849	

010 PM 252



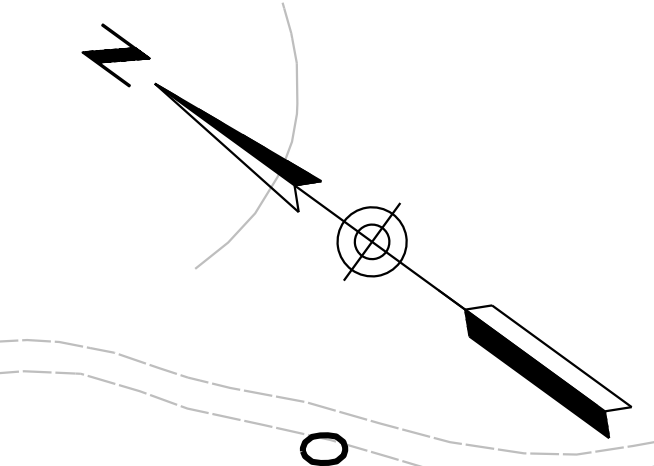
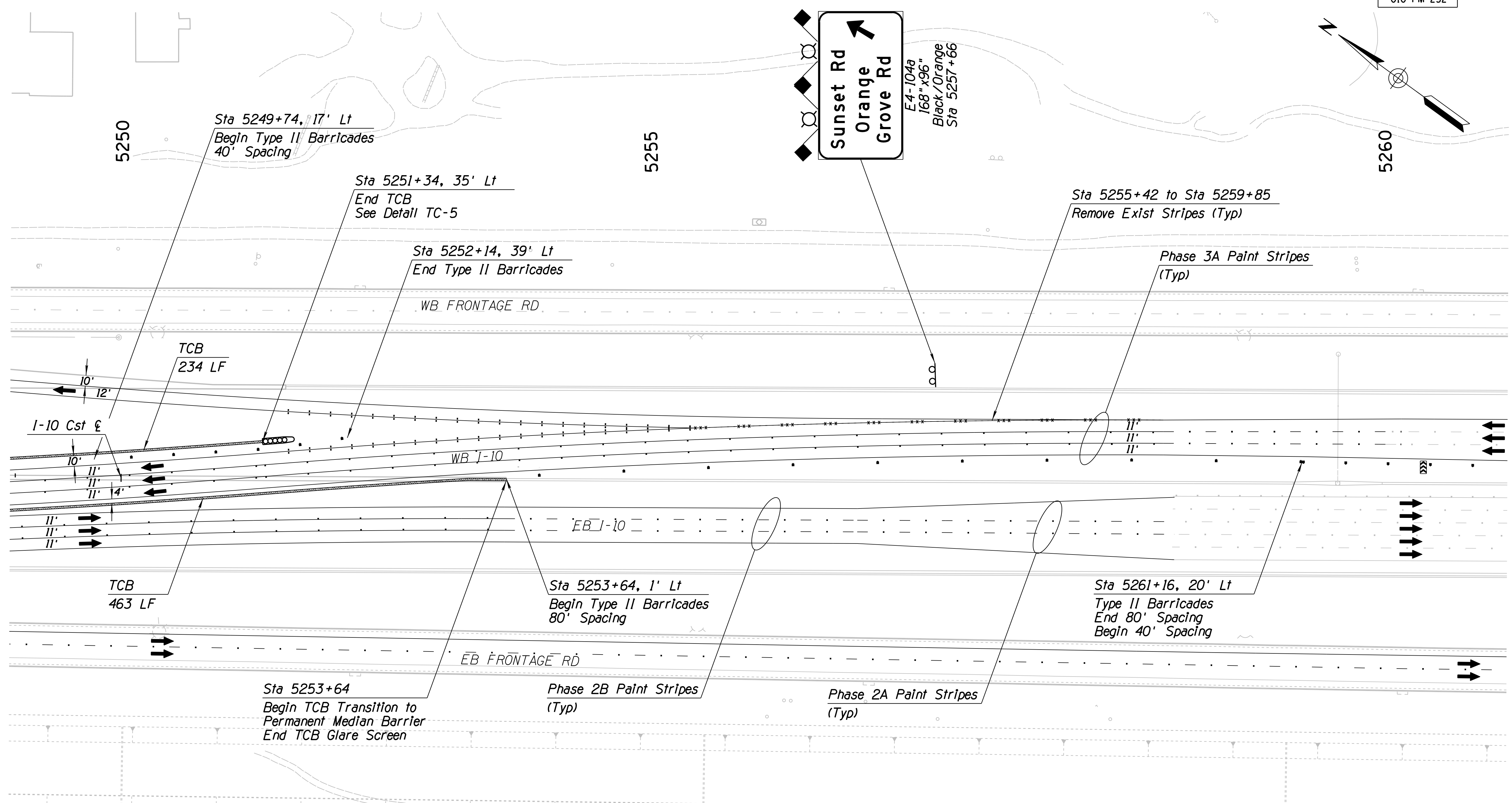
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE FINISHED PLANS SURVEY NO. REVISIONS LOCATION DATE

**Notes:**  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,90	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	414	849	

010 PM 252



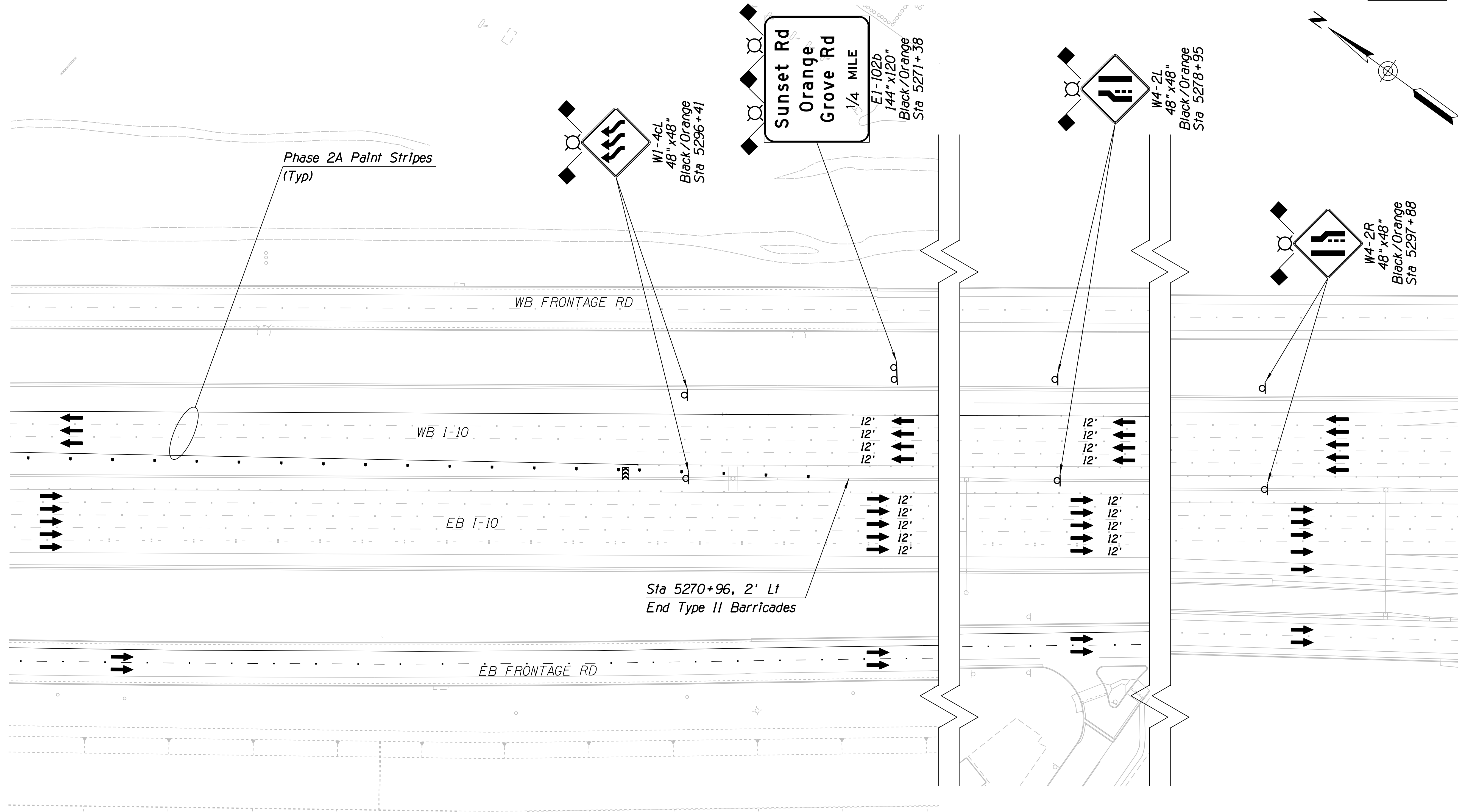
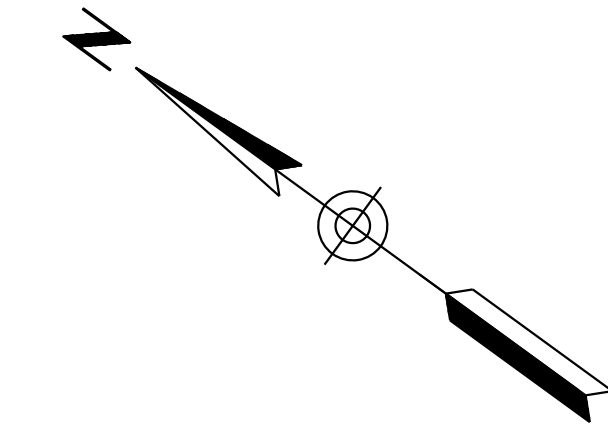
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.91	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	415	849	

010 PM 252



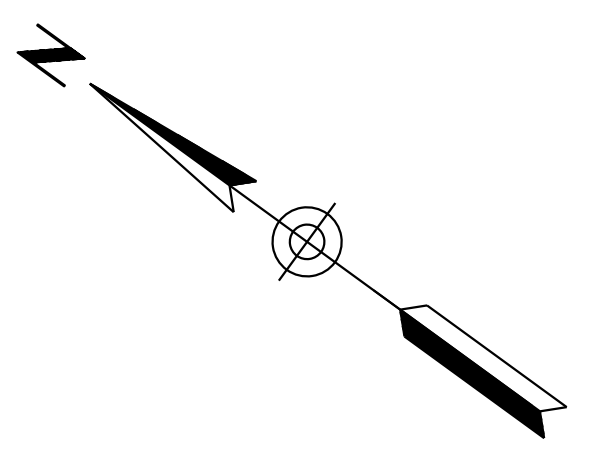
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE  
 SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

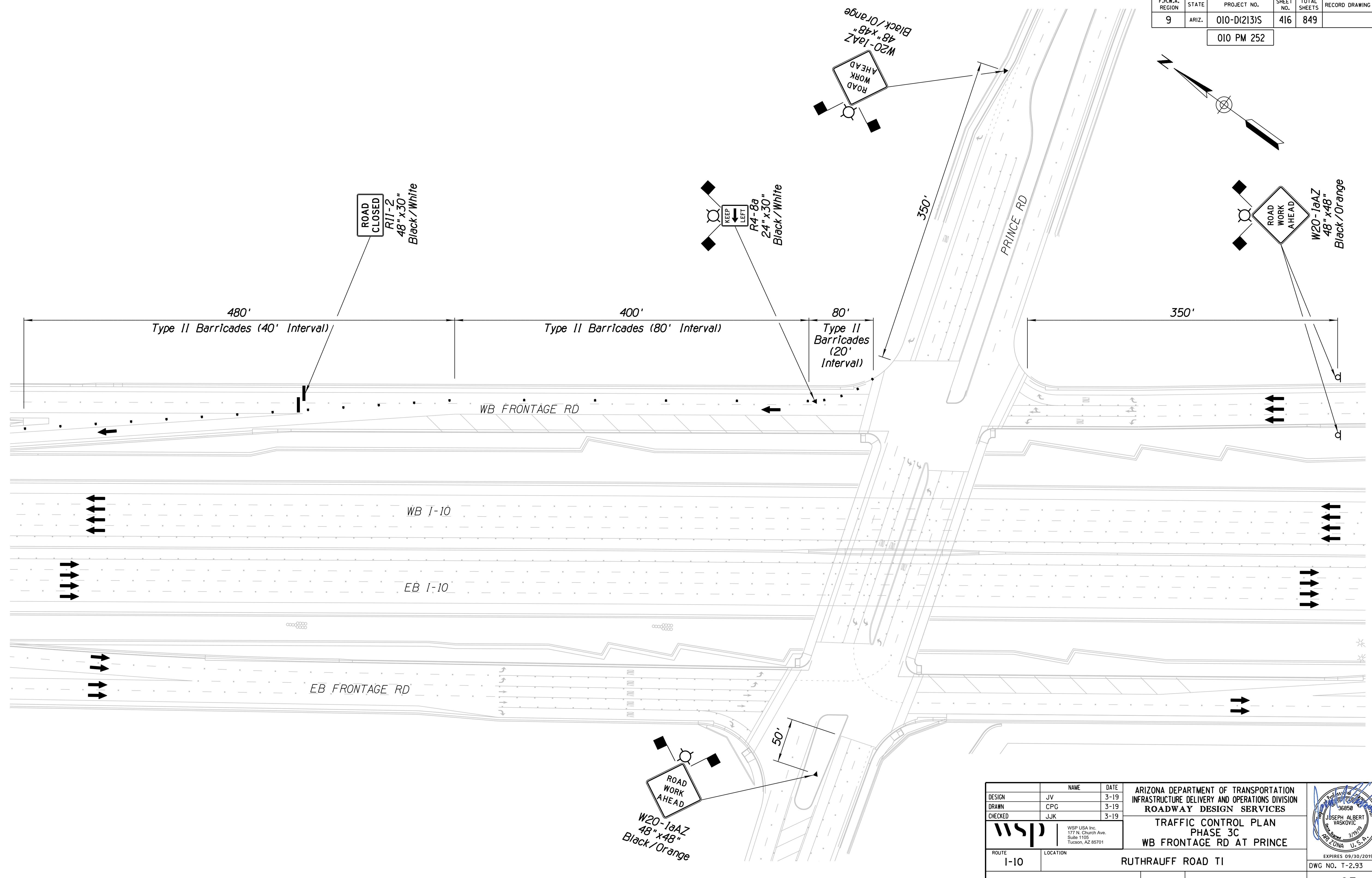
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 3C</b> <b>Sta 5263+00 to 5277+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.92	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
		DATE	OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	416	849	

010 PM 252



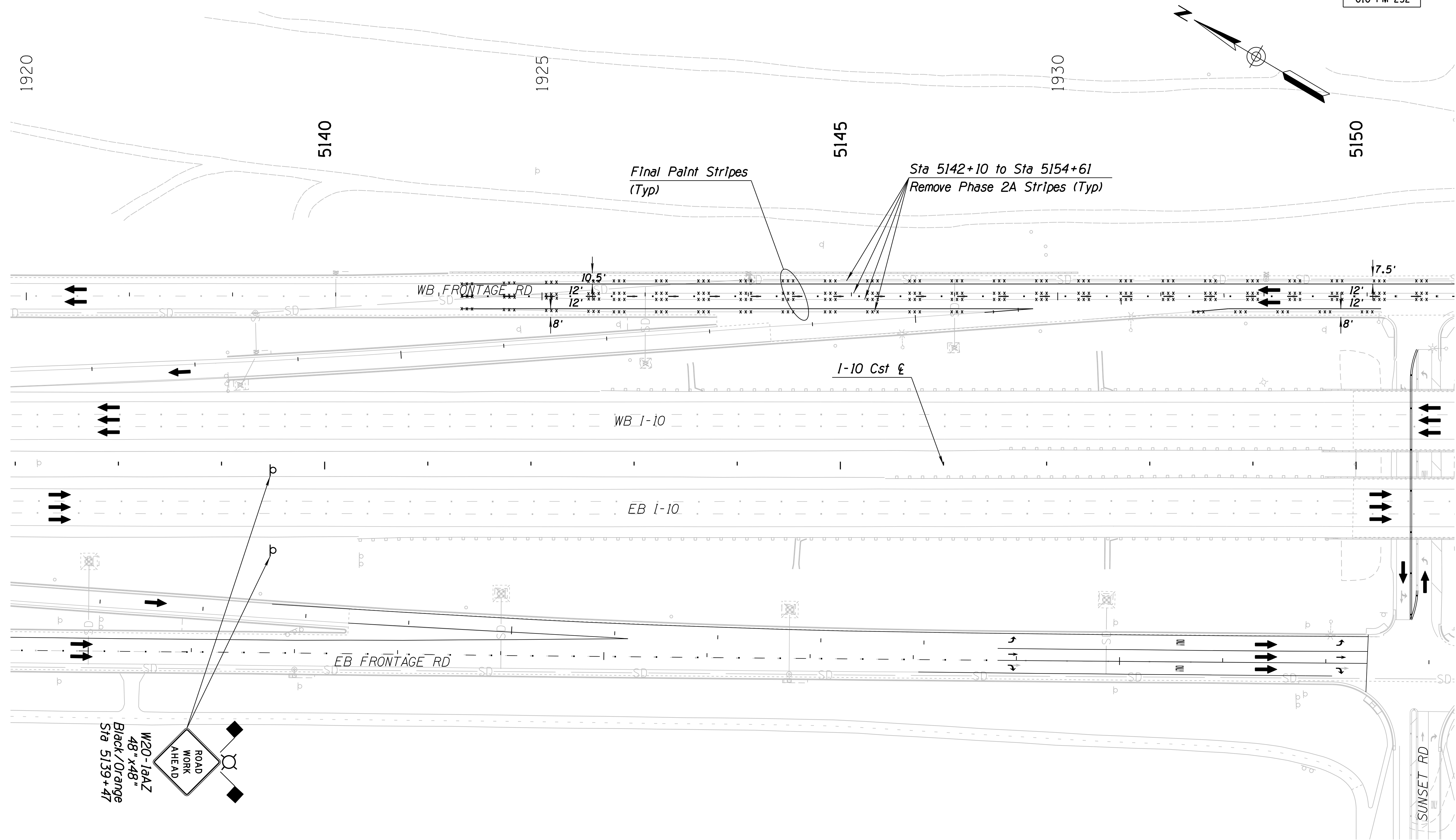
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE



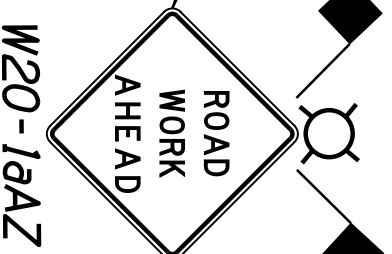
DESIGN	JV	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>TRAFFIC CONTROL PLAN</b> PHASE 3C <b>WB FRONTAGE RD AT PRINCE</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.93	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
		DATE	OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	417	849	

010 PM 252



W20-16AZ  
48" x 48"  
Black/Orange  
Sta 5139+47



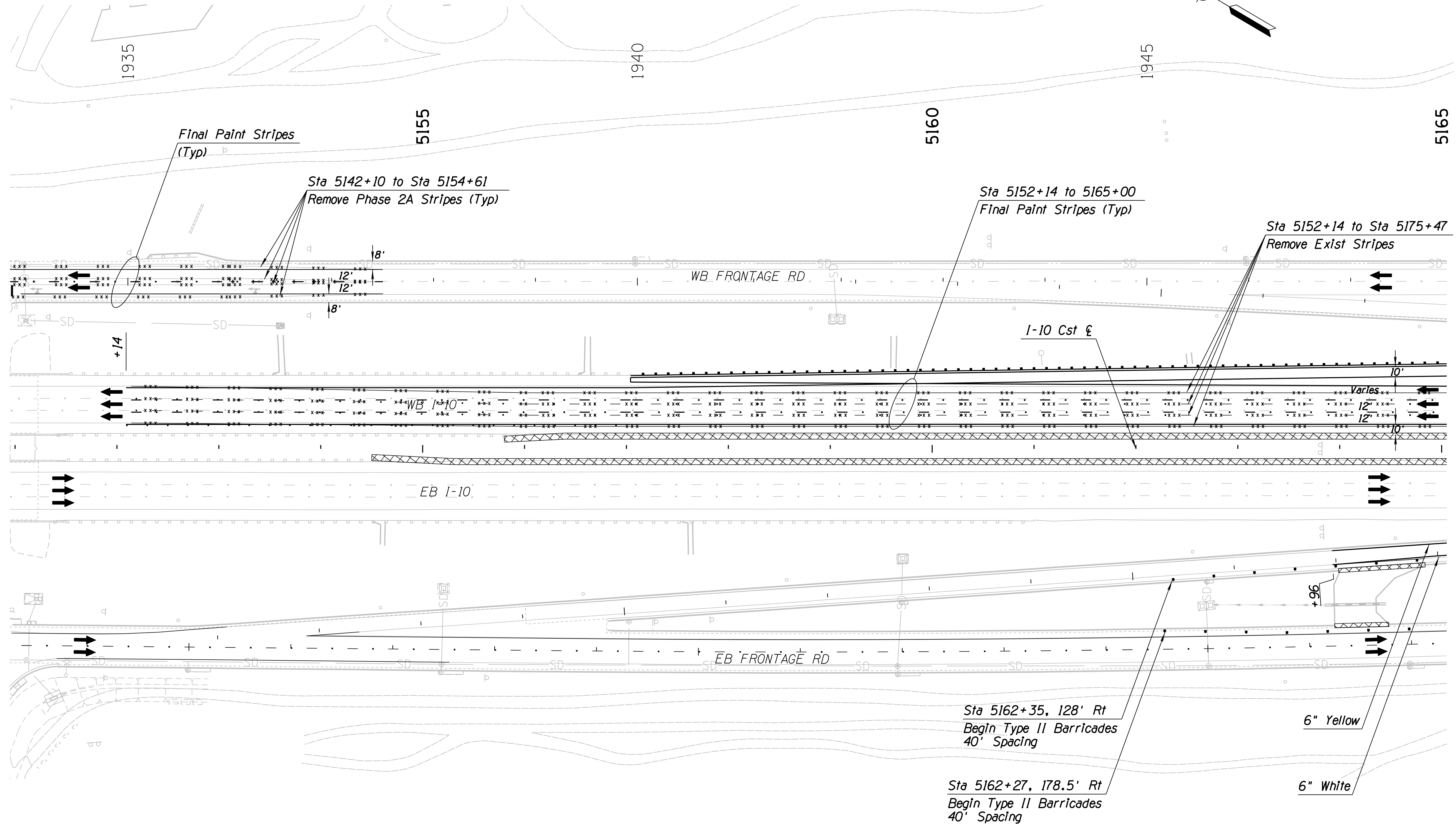
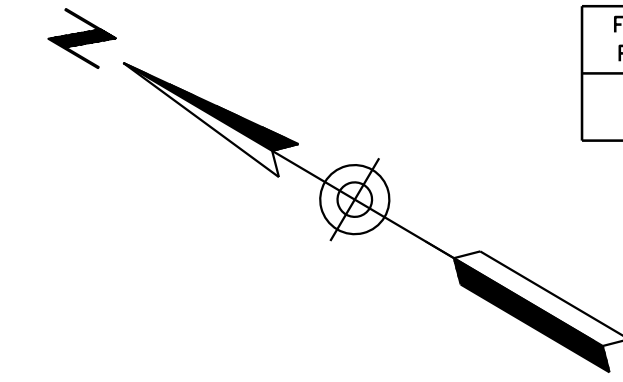
Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5137+00 to 5151+00</b>	
DRAWN		CPG	3-19		
CHECKED		JJK	3-19		
		<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>			
ROUTE	LOCATION			EXPIRES 09/30/2019	DWG NO. T-294
I-10	RUTHRAUFF ROAD TI				
TRACS NO. H 8480 OIC		010-D(213)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-D(213)S	418	849	

010 PM 252



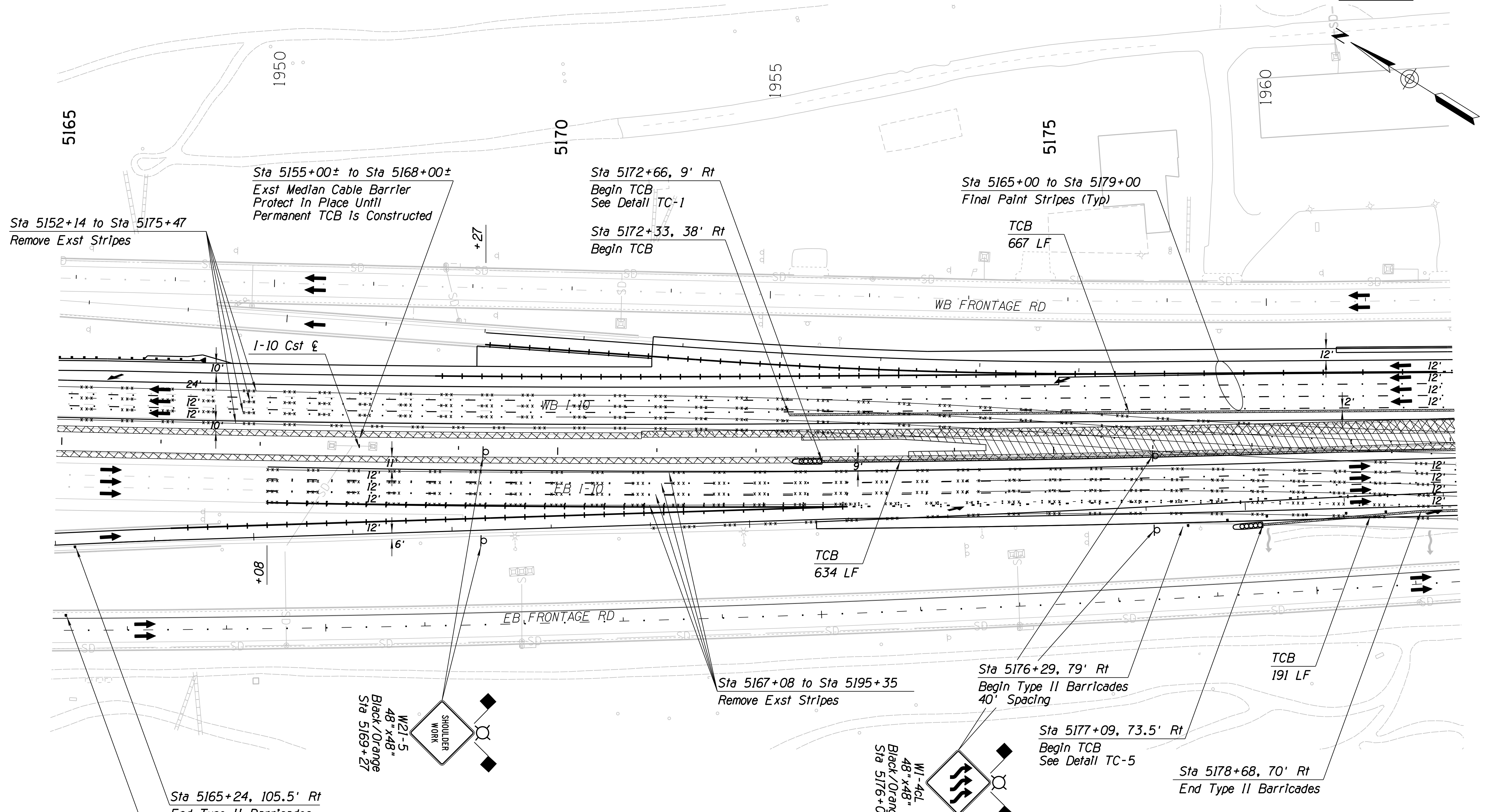
Notes:  
1. All Stations & Offsets are to the 1-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5151+00 to 5165+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,95	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		
			OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	419	849	

010 PM 252



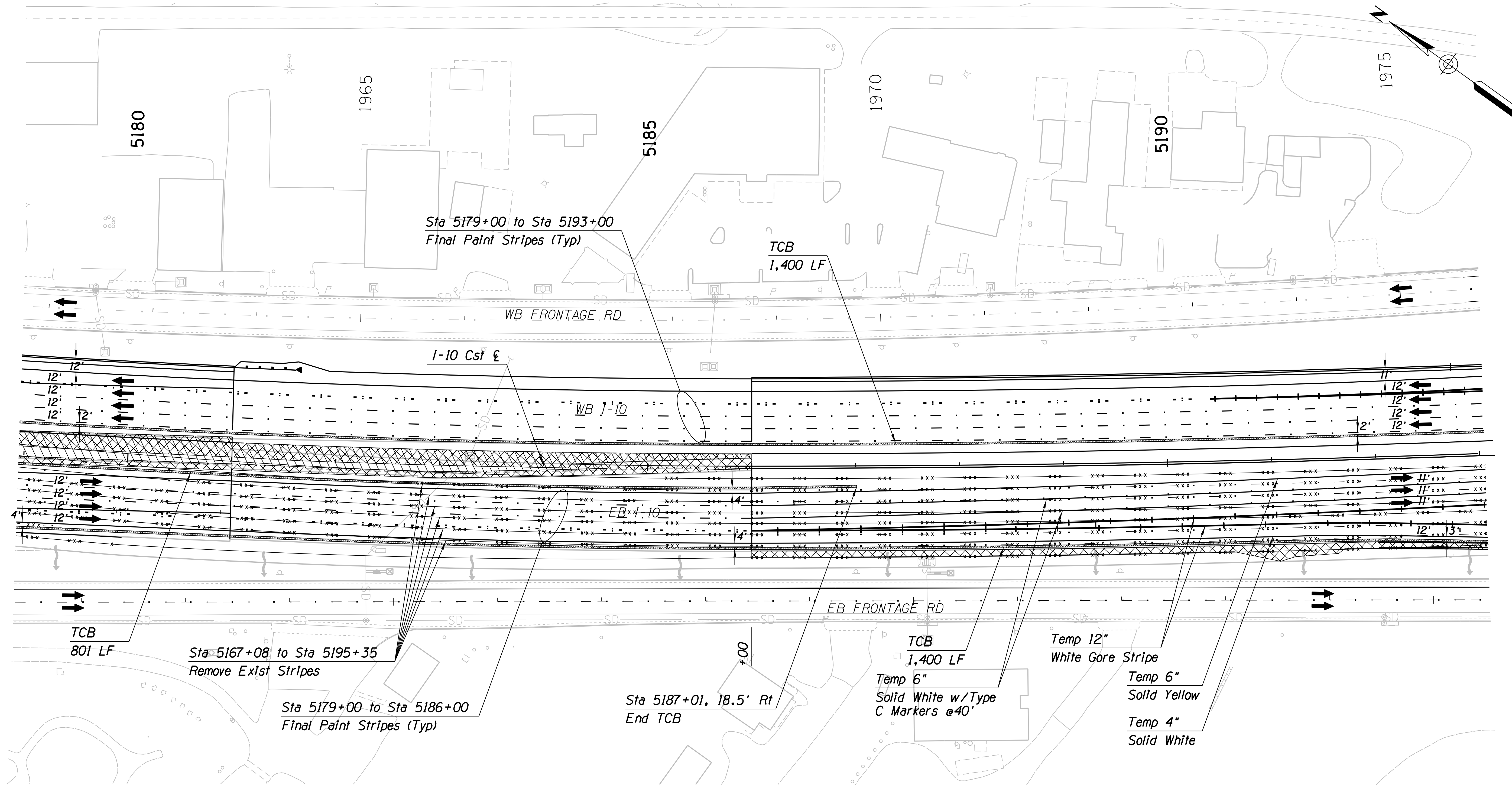
Notes:  
 1. All Stations & Offsets are to the I-10 Cst  $\epsilon$  Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5165+00 to 5179+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,96	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
DATE	Tue 19 Mar 2019, 12:20:04				

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	420	849	

010 PM 252



DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5179+00 to 5193+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2,97	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

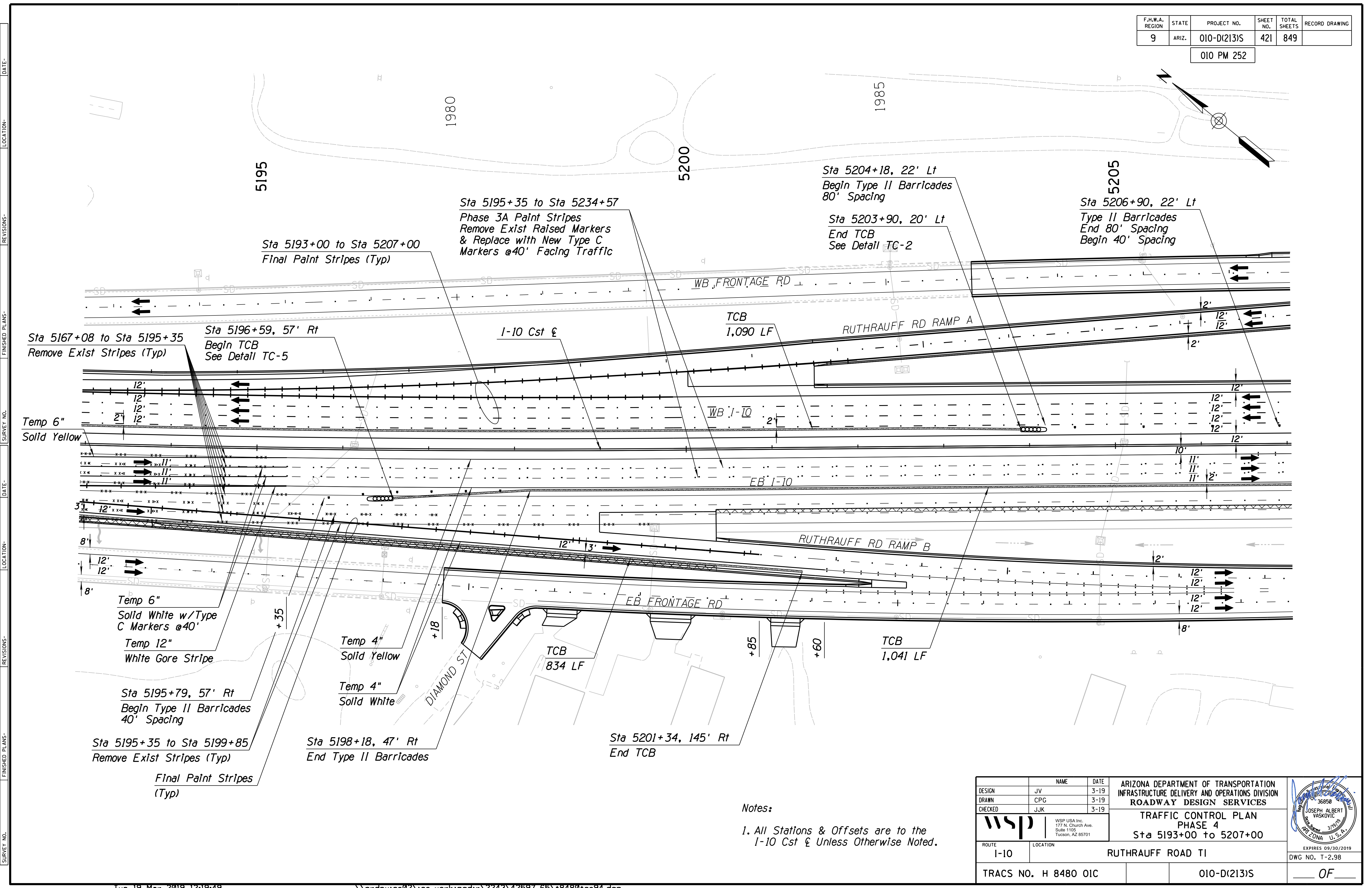
Notes:  
 1. All Stations & Offsets are to the 1-10 Cst & Unless Otherwise Noted.

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-D(213)S	421	849	

010 PM 252



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

Sta 5193+00 to Sta 5207+00  
Final Paint Stripes (Typ)

Sta 5195+35 to Sta 5234+57  
Phase 3A Paint Stripes  
Remove Exist Raised Markers  
& Replace with New Type C  
Markers @40' Facing Traffic

Sta 5204+18, 22' Lt  
Begin Type II Barricades  
80' Spacing

Sta 5203+90, 20' Lt  
End TCB  
See Detail TC-2

Sta 5206+90, 22' Lt  
Type II Barricades  
End 80' Spacing  
Begin 40' Spacing

Sta 5167+08 to Sta 5195+35  
Remove Exist Stripes (Typ)

Sta 5196+59, 57' Rt  
Begin TCB  
See Detail TC-5

I-10 Cst &

TCB  
1,090 LF

RUTHRAUFF RD RAMP A

Temp 6"  
Solid Yellow

Temp 6"  
Solid White w/Type  
C Markers @40'  
Temp 12"  
White Gore Stripe

Temp 4"  
Solid Yellow

Temp 4"  
Solid White

Sta 5195+79, 57' Rt  
Begin Type II Barricades  
40' Spacing

Sta 5195+35 to Sta 5199+85  
Remove Exist Stripes (Typ)

Final Paint Stripes  
(Typ)

Sta 5198+18, 47' Rt  
End Type II Barricades

Sta 5201+34, 145' Rt  
End TCB

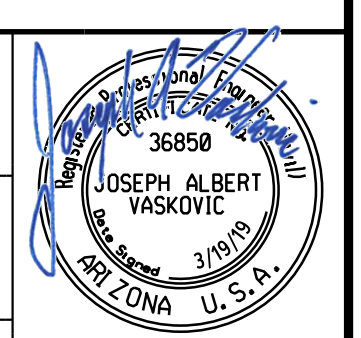
TCB  
834 LF

TCB  
1,041 LF

DESIGN	NAME	DATE
JV		3-19
CPG		3-19
JJK		3-19

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

TRAFFIC CONTROL PLAN  
PHASE 4  
Sta 5193+00 to 5207+00

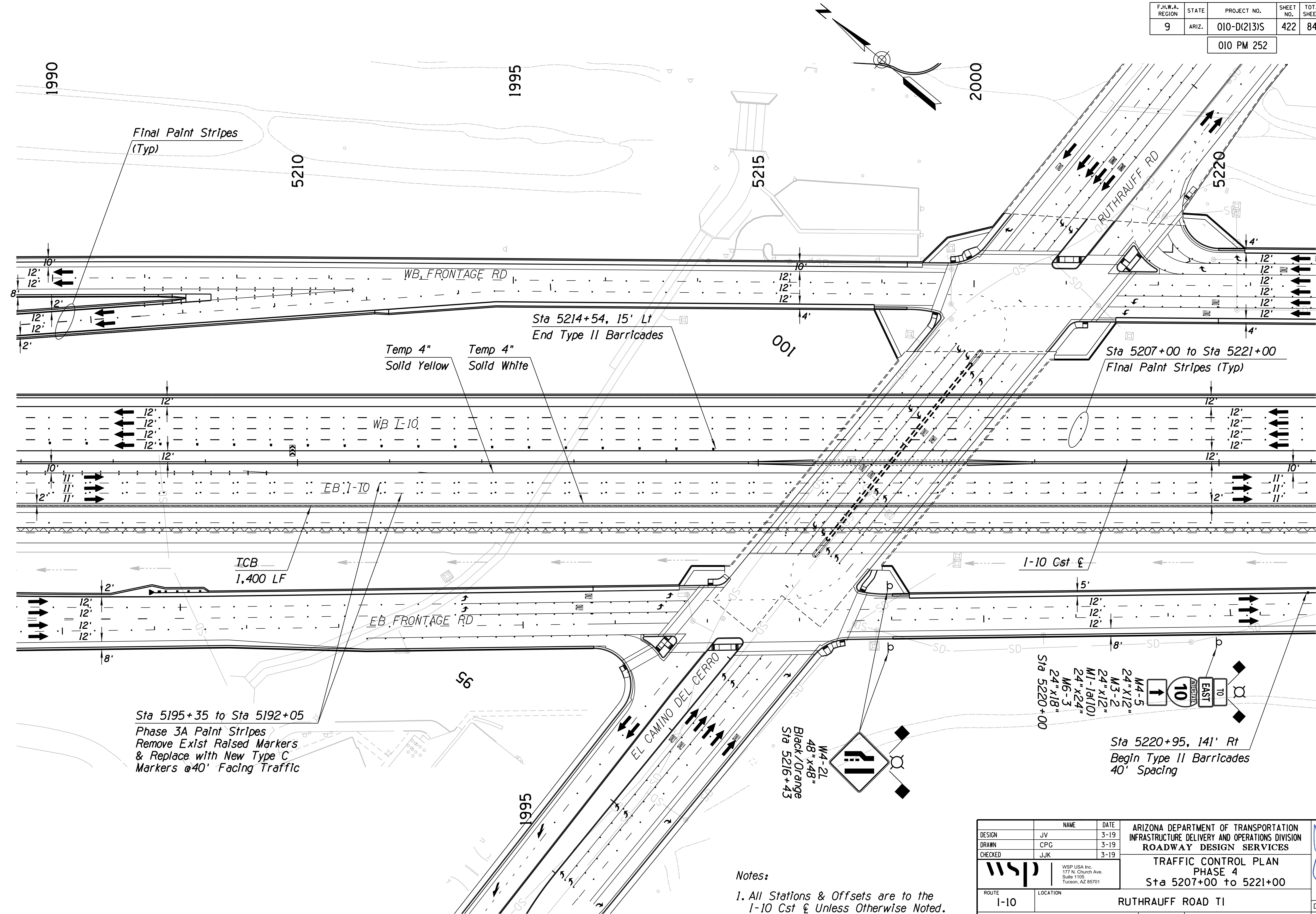


Notes:  
1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

ROUTE I-10	LOCATION RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC	010-D(213)S	OF
---------------	-------------------------------	----------------------	-------------	----

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	422	849	

010 PM 252



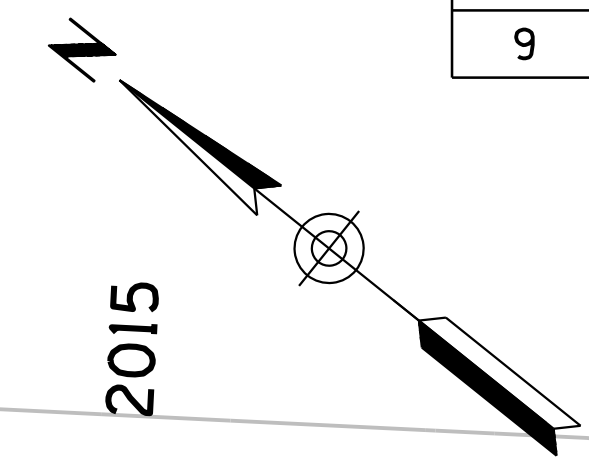
Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

<table border="1"> <tr> <th>DESIGN</th> <td>JV</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <th>DRAWN</th> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <th>CHECKED</th> <td>JJK</td> <td>DATE</td> <td>3-19</td> </tr> </table>		DESIGN	JV	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JJK	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DESIGN	JV	DATE	3-19												
DRAWN	CPG	DATE	3-19												
CHECKED	JJK	DATE	3-19												
		<b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5207+00 to 5221+00</b>													
ROUTE	LOCATION														
I-10	RUTHRAUFF ROAD TI														
TRACS NO. H 8480 OIC		010-D(213)S													

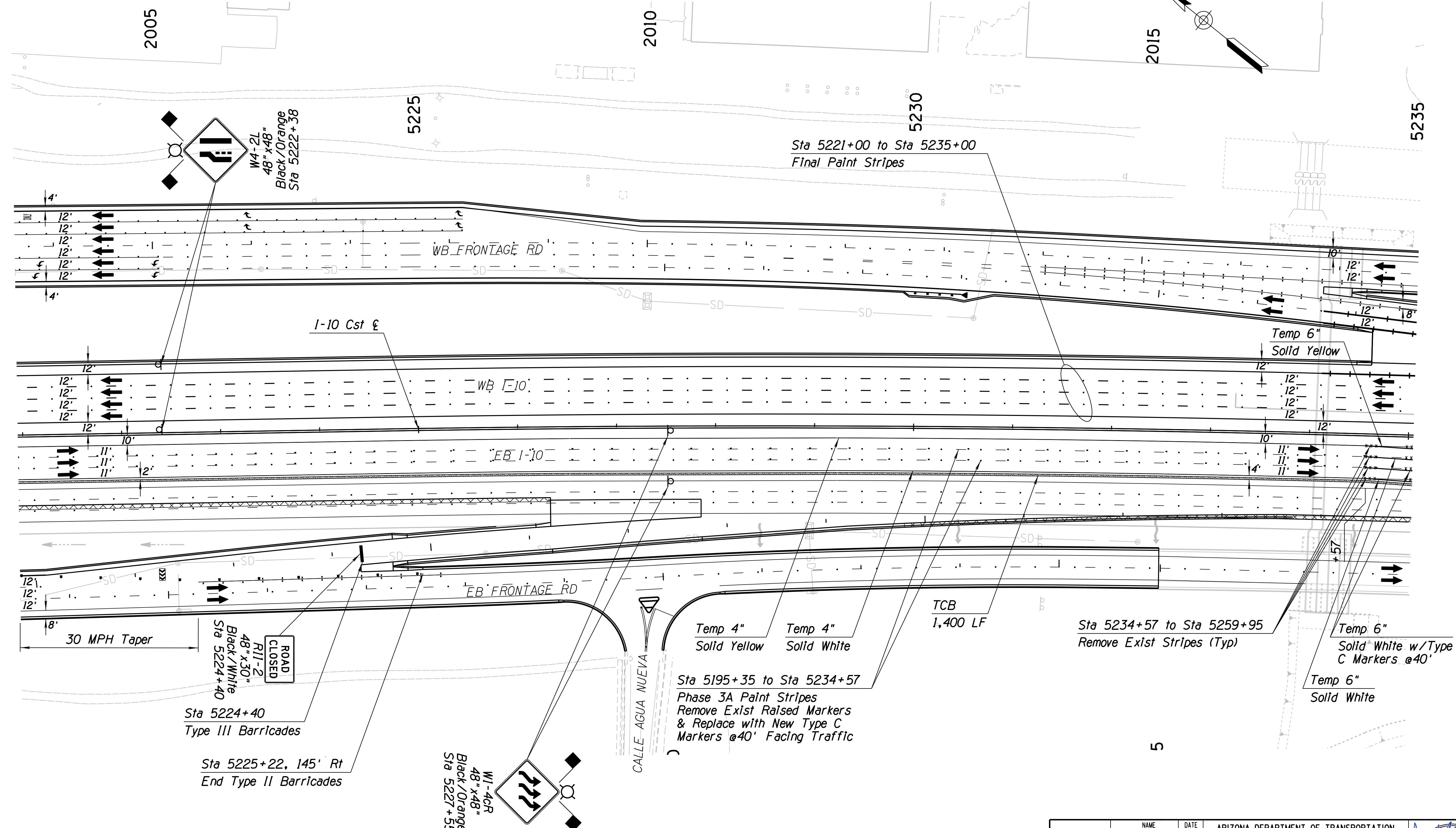
SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE. SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE. SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	423	849	

010 PM 252



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



Sta 5195+35 to Sta 5234+57  
 Phase 3A Paint Stripes  
 Remove Exist Raised Markers  
 & Replace with New Type C  
 Markers @40' Facing Traffic

Sta 5234+57 to Sta 5259+95  
 Remove Exist Stripes (Typ)

Temp 6" Solid White w/Type C Markers @40'  
 Temp 6" Solid White

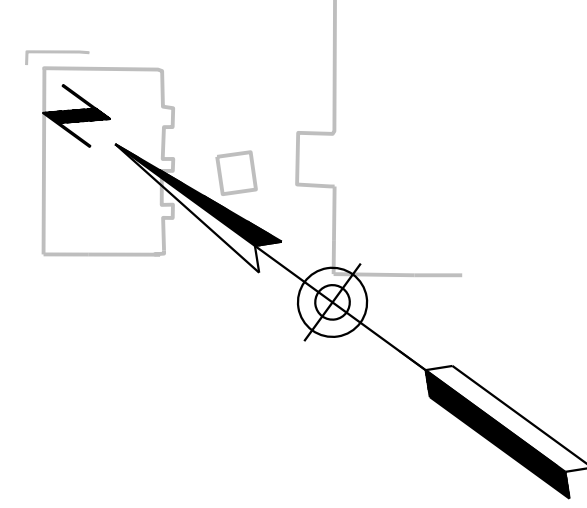
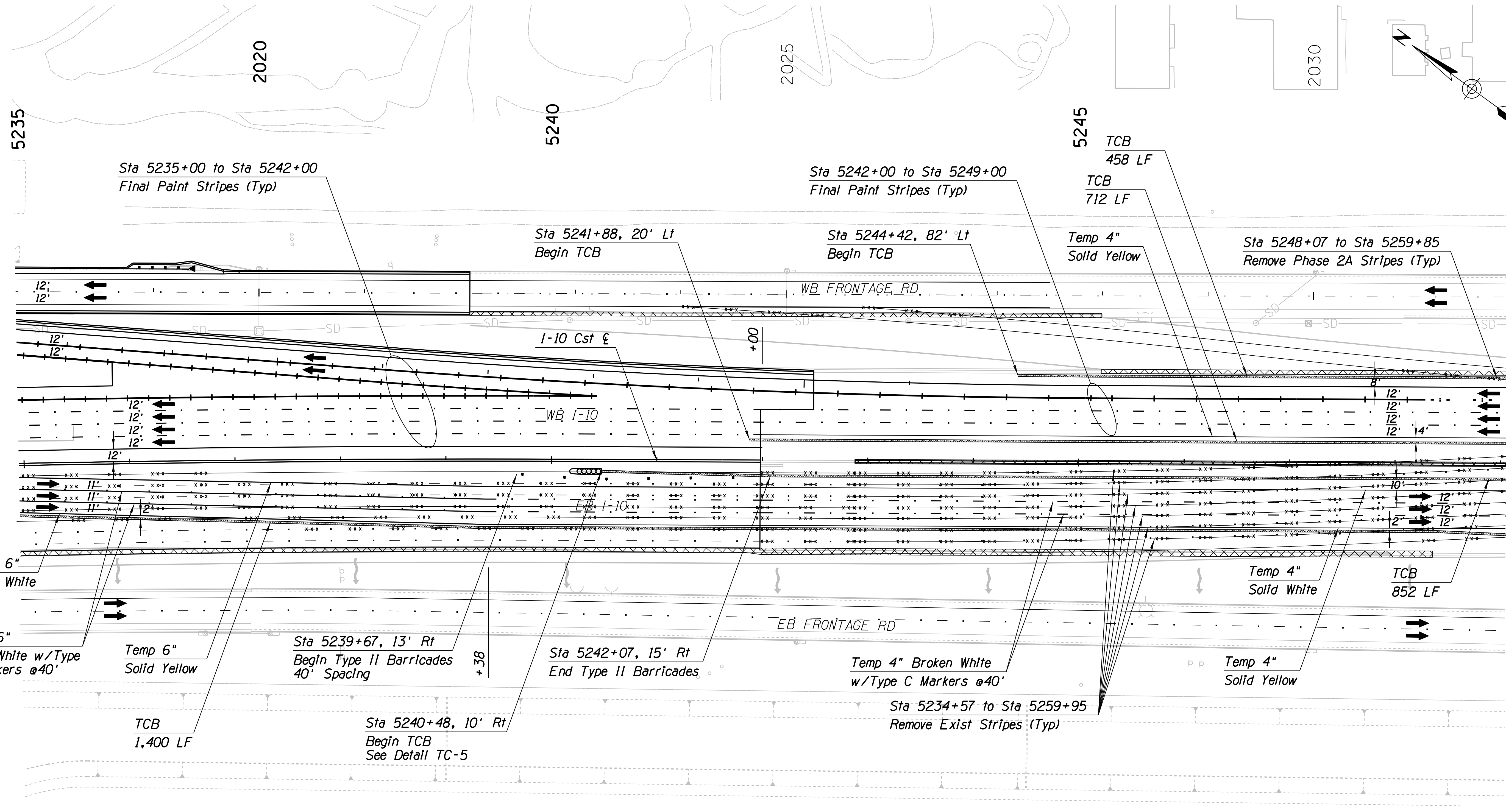
Sta 5224+40 Type III Barricades  
 Sta 5225+22, 145' Rt End Type II Barricades

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> TRAFFIC CONTROL PLAN PHASE 4 Sta 5221+00 to 5235+00	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.100	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	424	849	

010 PM 252



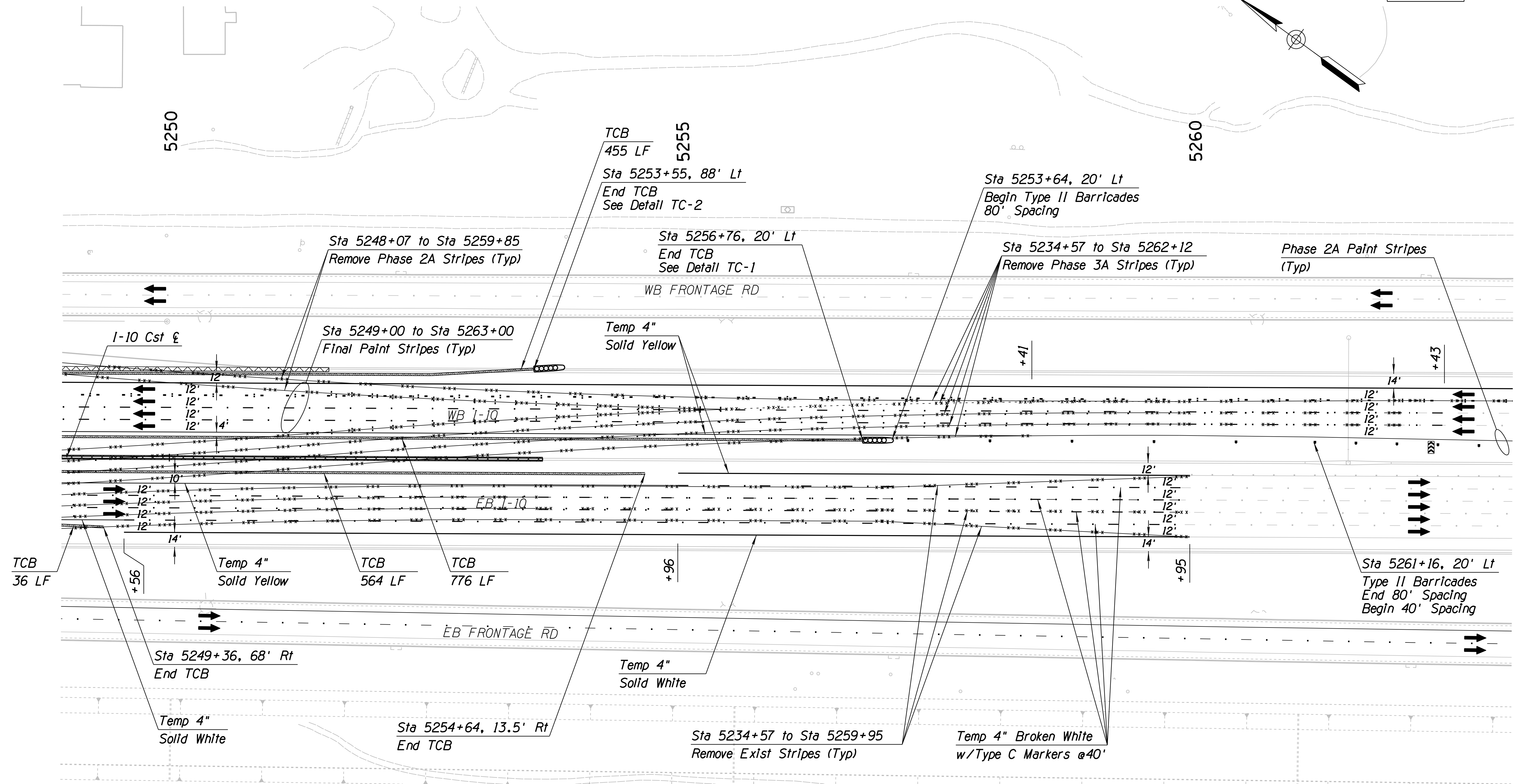
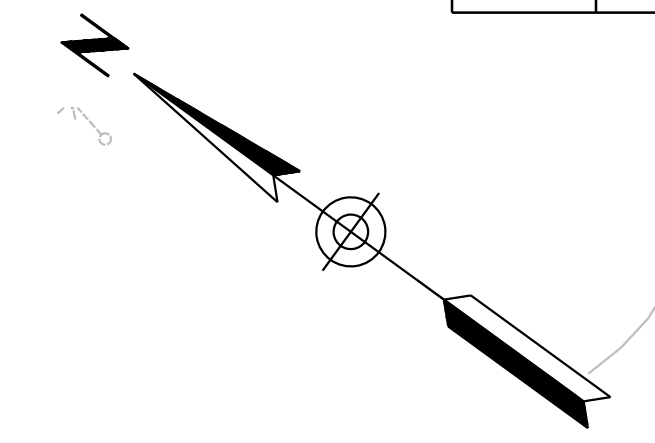
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5235+00 to 5249+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.101	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	425	849	

010 PM 252



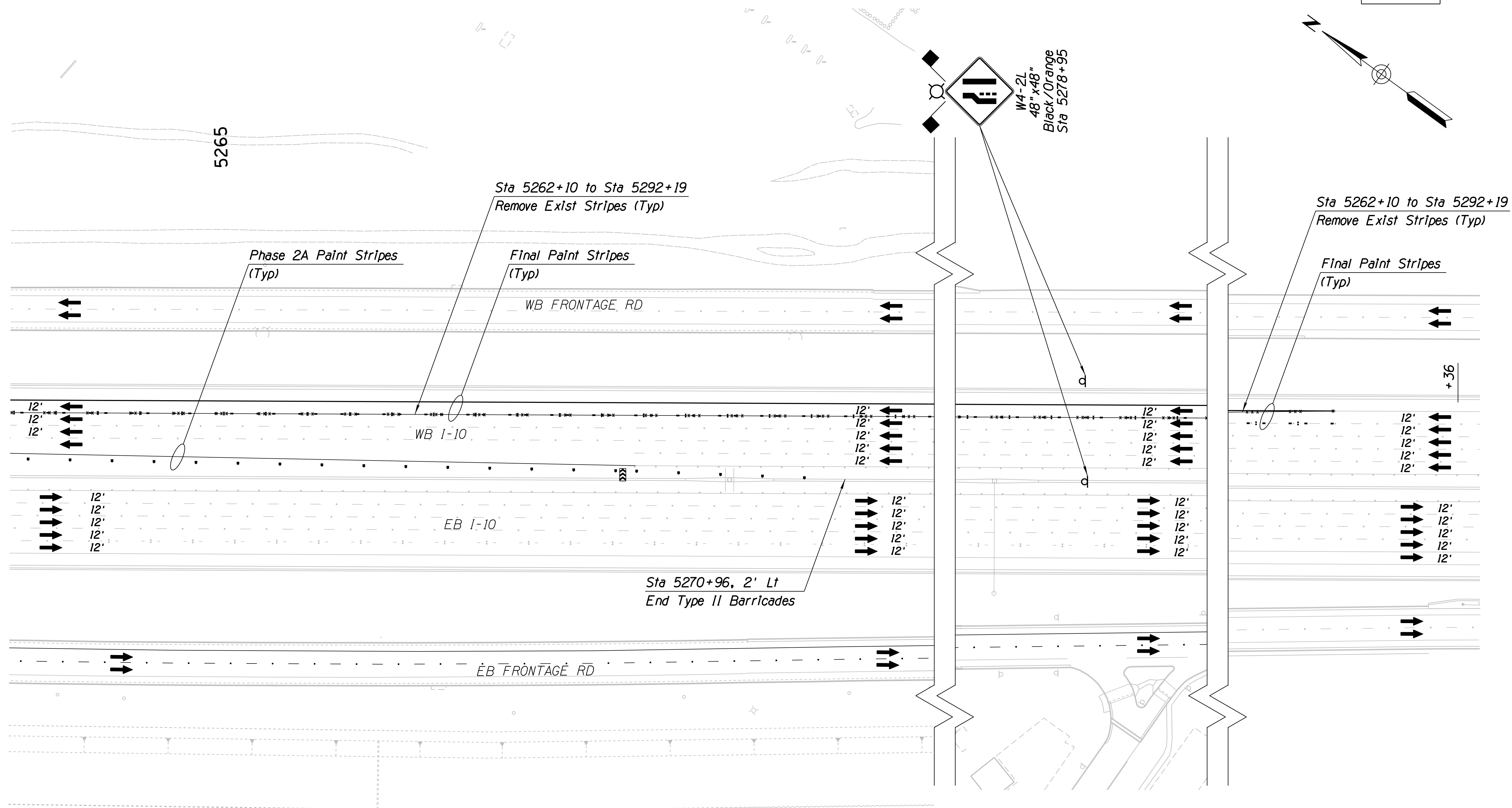
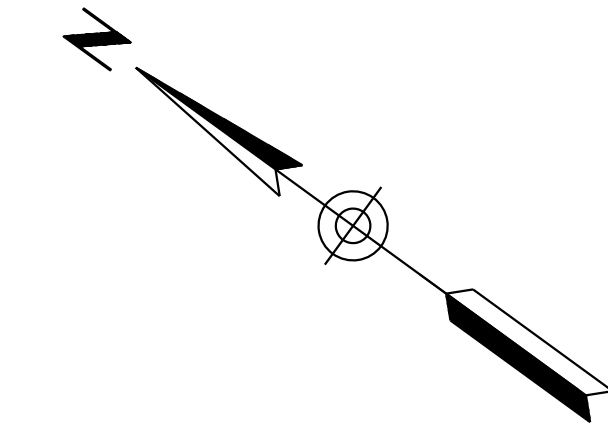
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

Notes:  
 1. All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5249+00 to 5263+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.102	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	426	849	

010 PM 252



SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

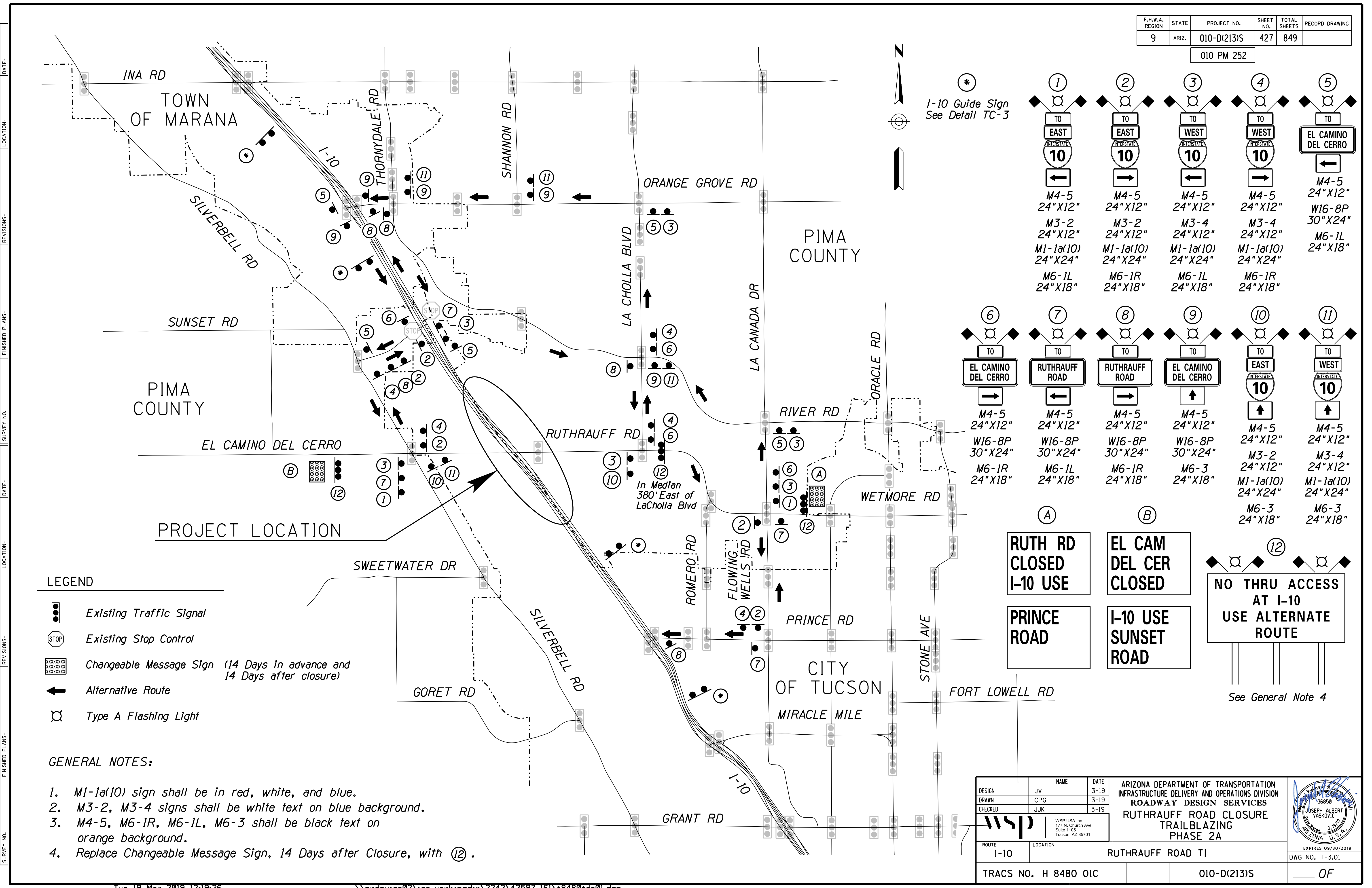
**Notes:**

- All Stations & Offsets are to the I-10 Cst & Unless Otherwise Noted.

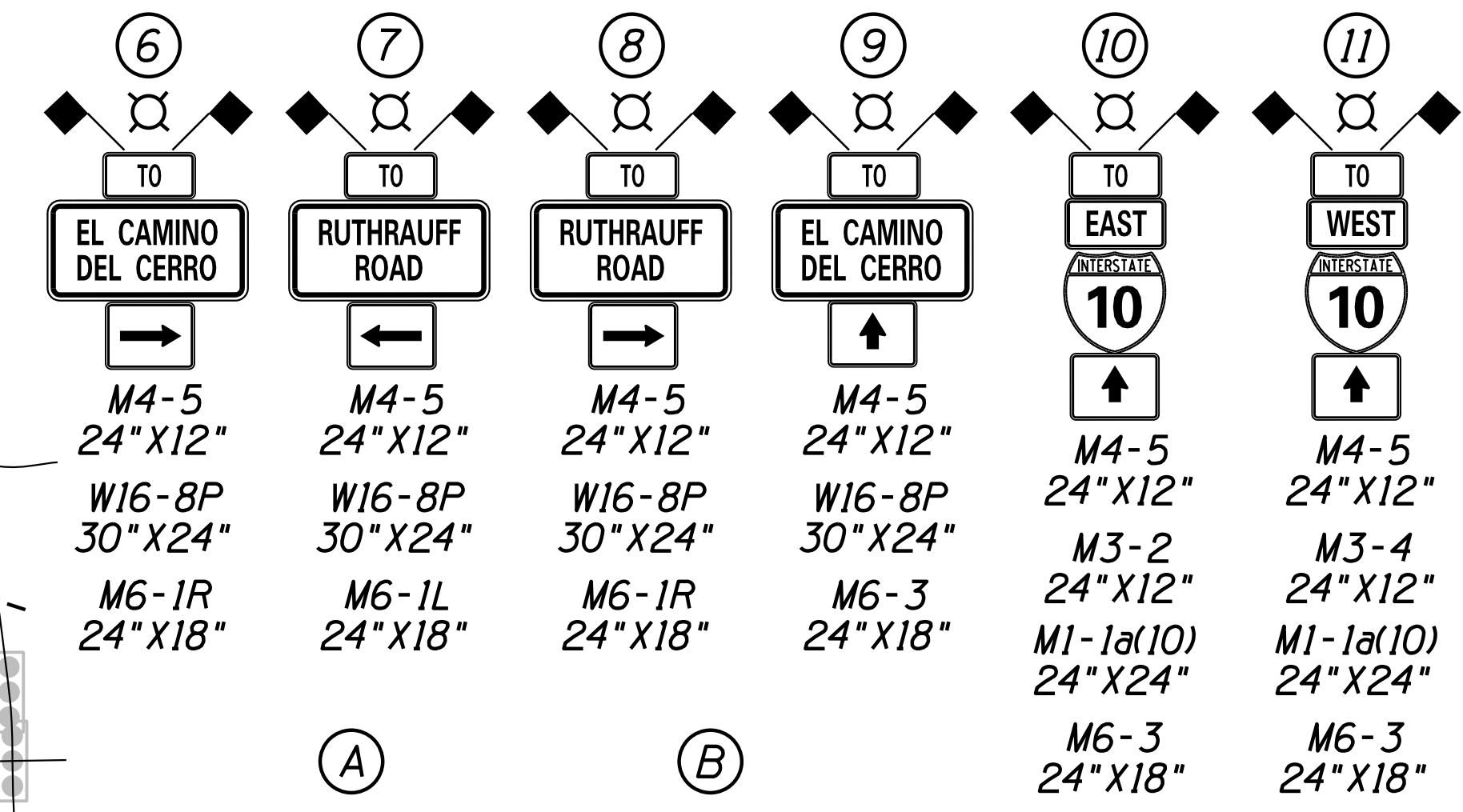
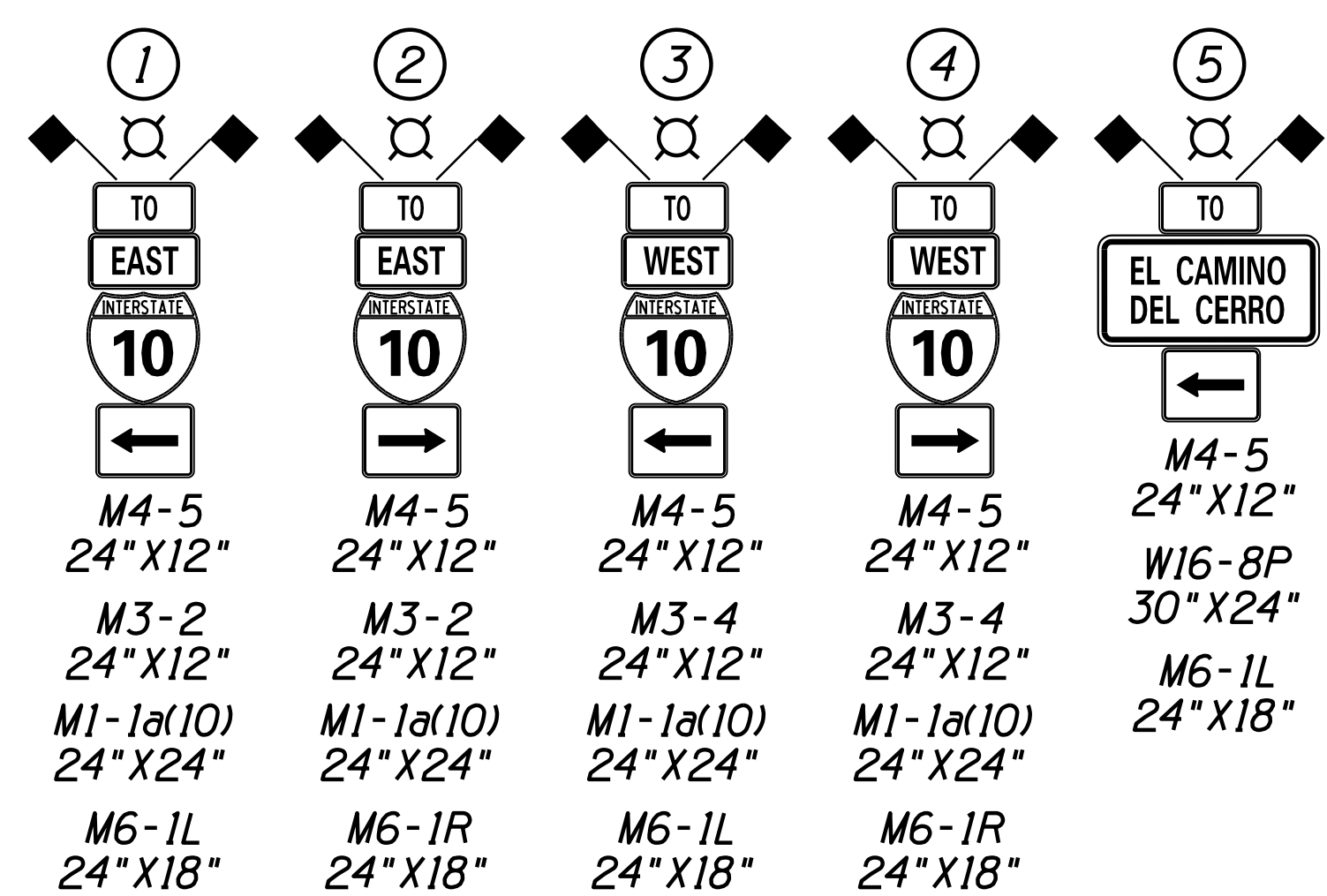
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES  <b>TRAFFIC CONTROL PLAN</b> <b>PHASE 4</b> <b>Sta 5263+00 to 5277+00</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-2.103	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	427	849	

010 PM 252



\*  
I-10 Guide Sign  
See Detail TC-3



(A)  
RUTH RD  
CLOSED  
I-10 USE

(B)  
EL CAM DEL CER  
CLOSED

PRINCE  
ROAD

I-10 USE  
SUNSET  
ROAD

(12)  
NO THRU ACCESS  
AT I-10  
USE ALTERNATE  
ROUTE

See General Note 4

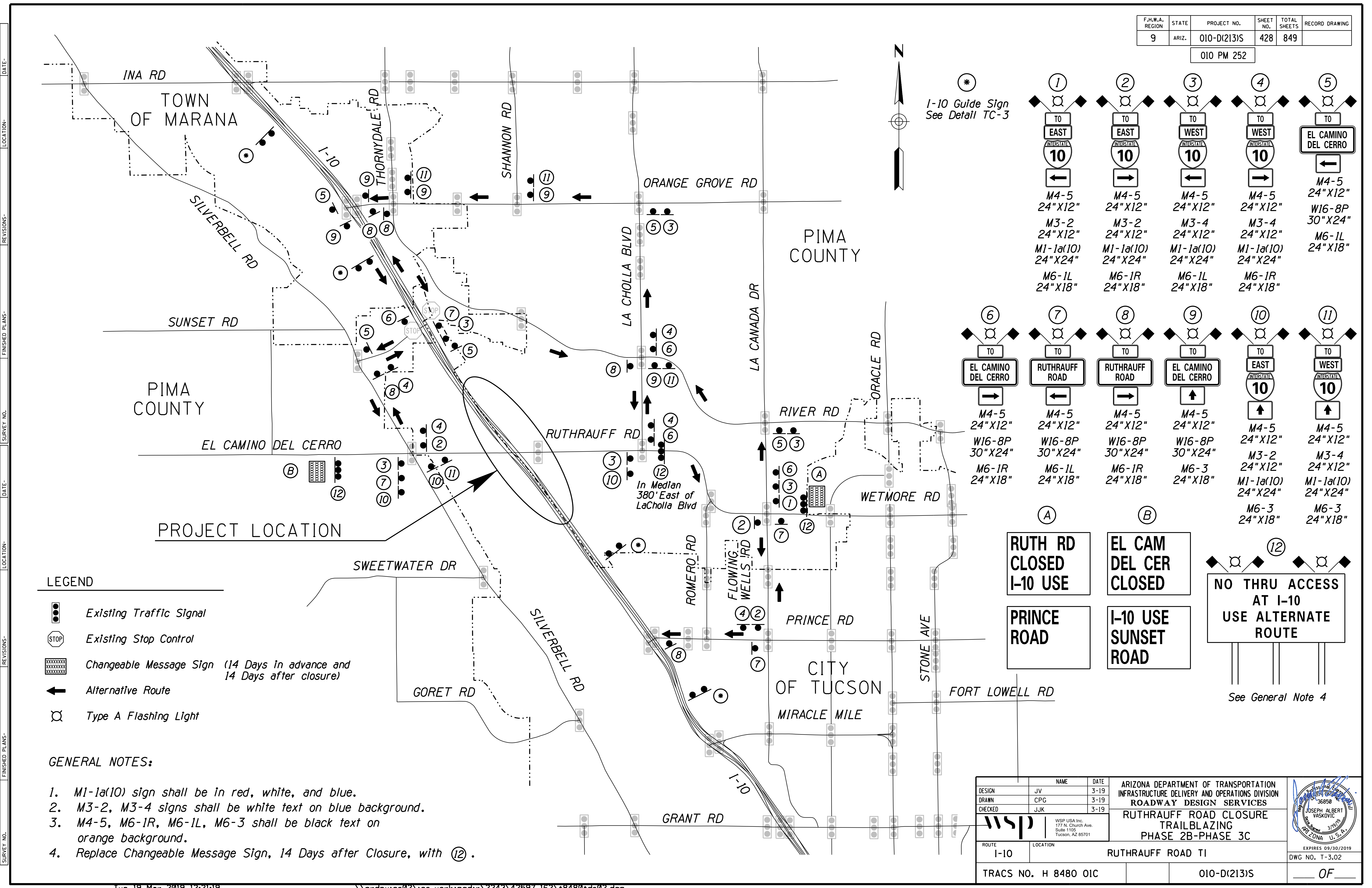
- LEGEND**
- Existing Traffic Signal
  - Existing Stop Control
  - Changeable Message Sign (14 Days In advance and 14 Days after closure)
  - Alternative Route
  - Type A Flashing Light

- GENERAL NOTES:**
1. M1-1a(10) sign shall be in red, white, and blue.
  2. M3-2, M3-4 signs shall be white text on blue background.
  3. M4-5, M6-1R, M6-1L, M6-3 shall be black text on orange background.
  4. Replace Changeable Message Sign, 14 Days after Closure, with (12).

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> RUTHRAUFF ROAD CLOSURE TRAILBLAZING PHASE 2A
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-3.01 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	428	849	

010 PM 252



\* I-10 Guide Sign  
See Detail TC-3

1	2	3	4	5
TO EAST 10 ←	TO EAST 10 →	TO WEST 10 ←	TO WEST 10 →	TO EL CAMINO DEL CERRO ←
M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"
M3-2 24"X12"	M3-2 24"X12"	M3-4 24"X12"	M3-4 24"X12"	M3-4 24"X12"
M1-1a(10) 24"X24"	M1-1a(10) 24"X24"	M1-1a(10) 24"X24"	M1-1a(10) 24"X24"	M1-1a(10) 24"X24"
M6-1L 24"X18"	M6-1R 24"X18"	M6-1L 24"X18"	M6-1R 24"X18"	M6-1L 24"X18"

6	7	8	9	10	11
TO EL CAMINO DEL CERRO →	TO RUTHRAUFF ROAD ←	TO RUTHRAUFF ROAD →	TO EL CAMINO DEL CERRO ↑	TO EAST 10 ↑	TO WEST 10 ↑
M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"	M4-5 24"X12"
W16-8P 30"X24"	W16-8P 30"X24"	W16-8P 30"X24"	W16-8P 30"X24"	M3-2 24"X12"	M3-4 24"X12"
M6-1R 24"X18"	M6-1L 24"X18"	M6-1R 24"X18"	M6-3 24"X18"	M1-1a(10) 24"X24"	M1-1a(10) 24"X24"
			M6-3 24"X18"		M6-3 24"X18"

(A) RUTH RD CLOSED I-10 USE

(B) EL CAM DEL CER CLOSED

PRINCE ROAD

I-10 USE SUNSET ROAD

(12) NO THRU ACCESS AT I-10 USE ALTERNATE ROUTE

See General Note 4

- LEGEND**
- Existing Traffic Signal
  - Existing Stop Control
  - Changeable Message Sign (14 Days In advance and 14 Days after closure)
  - Alternative Route
  - Type A Flashing Light

- GENERAL NOTES:**
- M1-1a(10) sign shall be in red, white, and blue.
  - M3-2, M3-4 signs shall be white text on blue background.
  - M4-5, M6-1R, M6-1L, M6-3 shall be black text on orange background.
  - Replace Changeable Message Sign, 14 Days after Closure, with (12).

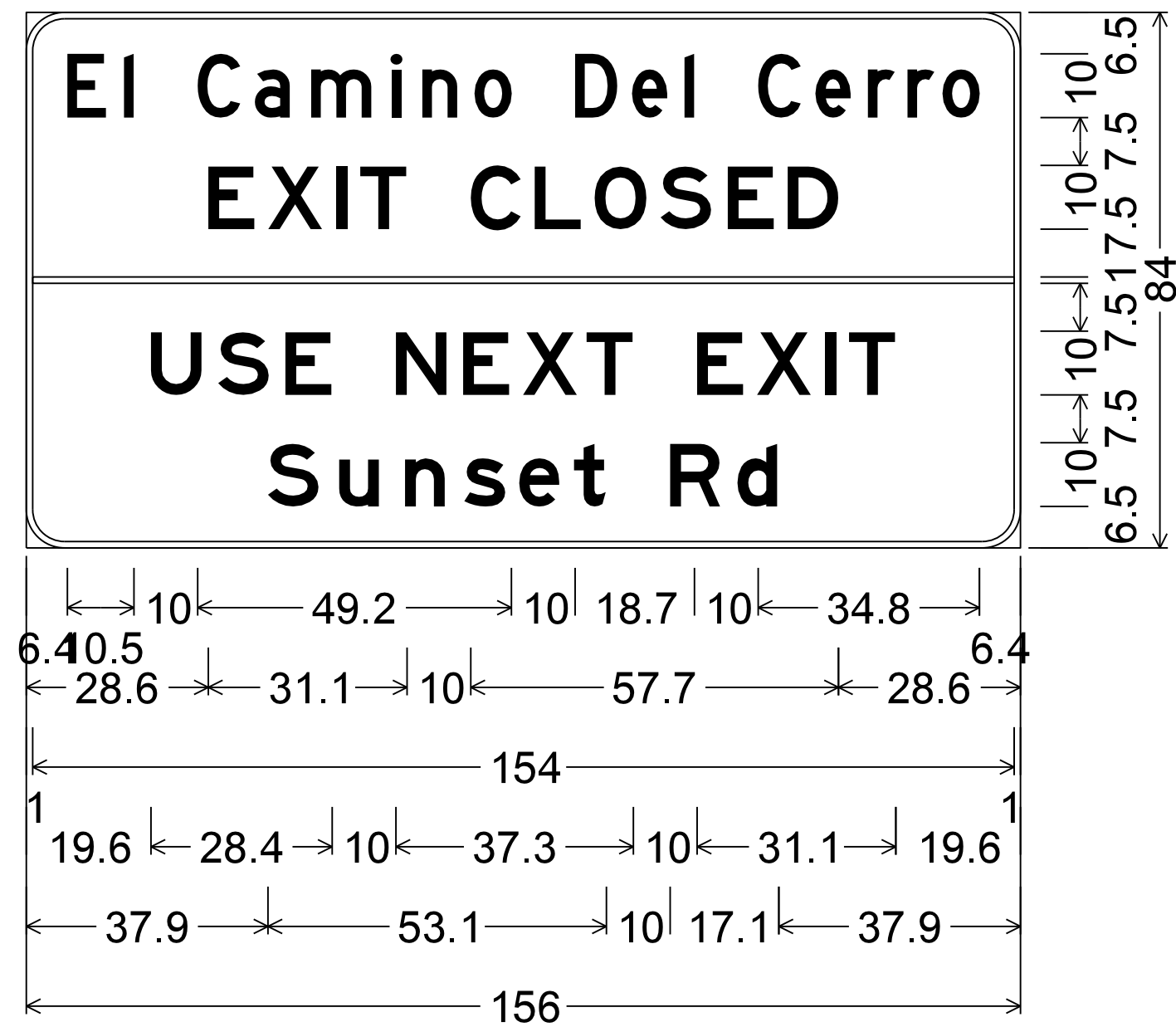
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES RUTHRAUFF ROAD CLOSURE TRAILBLAZING PHASE 2B-PHASE 3C
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		WSP WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		JOSEPH ALBERT VASKOVIC 36850 3/19/19 EXPIRES 09/30/2019 DWG NO. T-3.02
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC 010-D(213)S OF



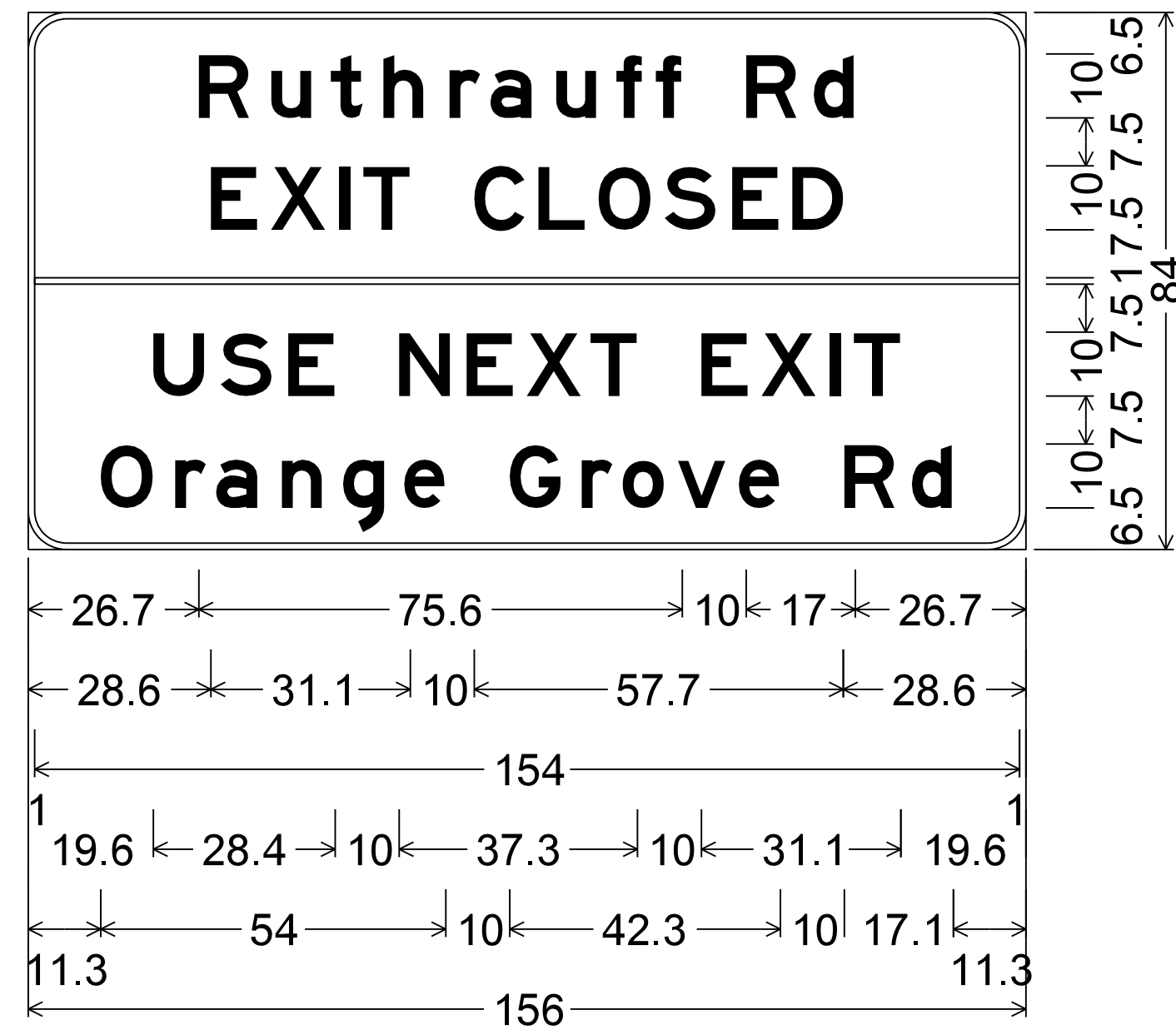
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	429	849	

010 PM 252

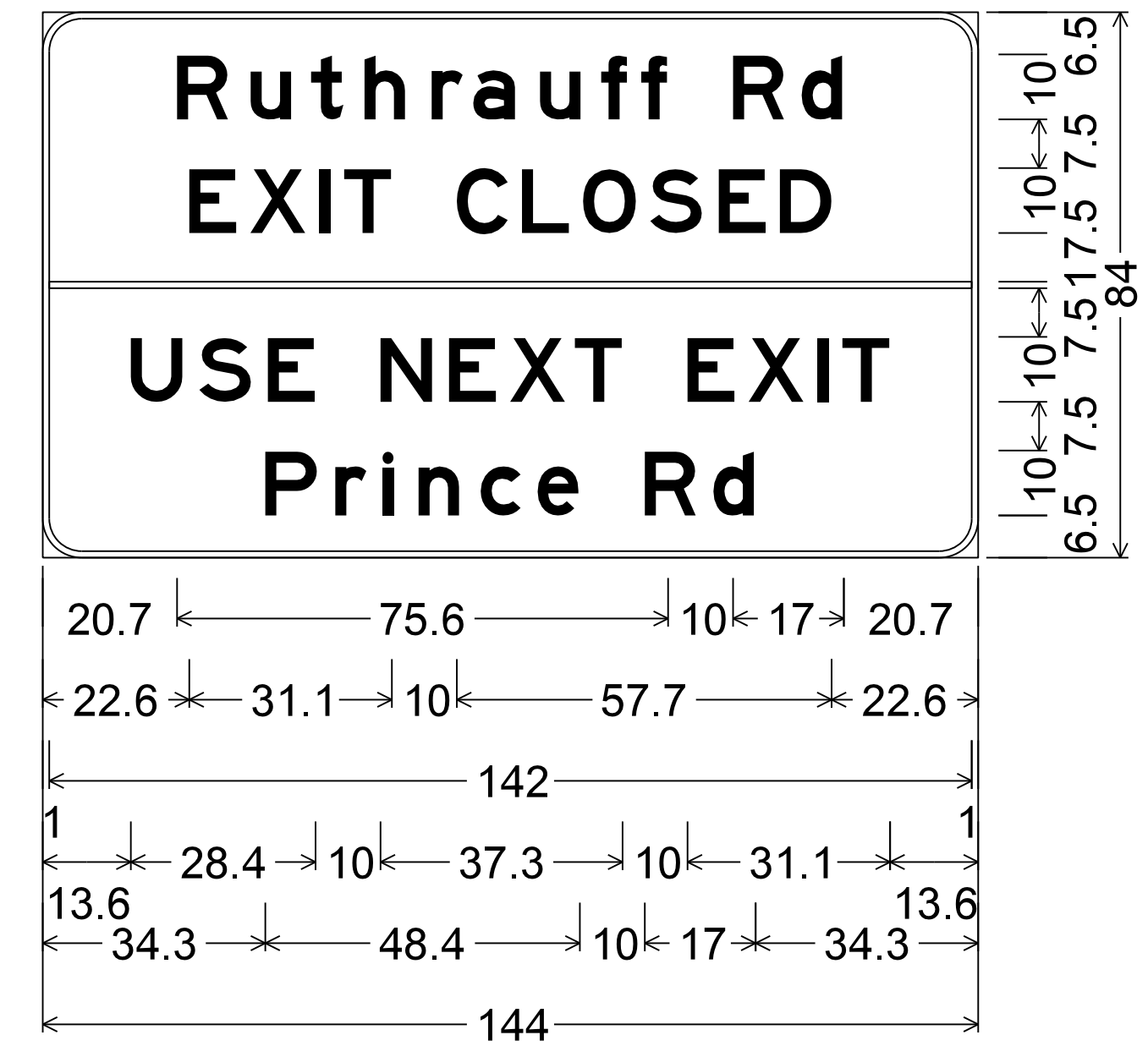
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS DATE FINISHED PLANS SURVEY NO.



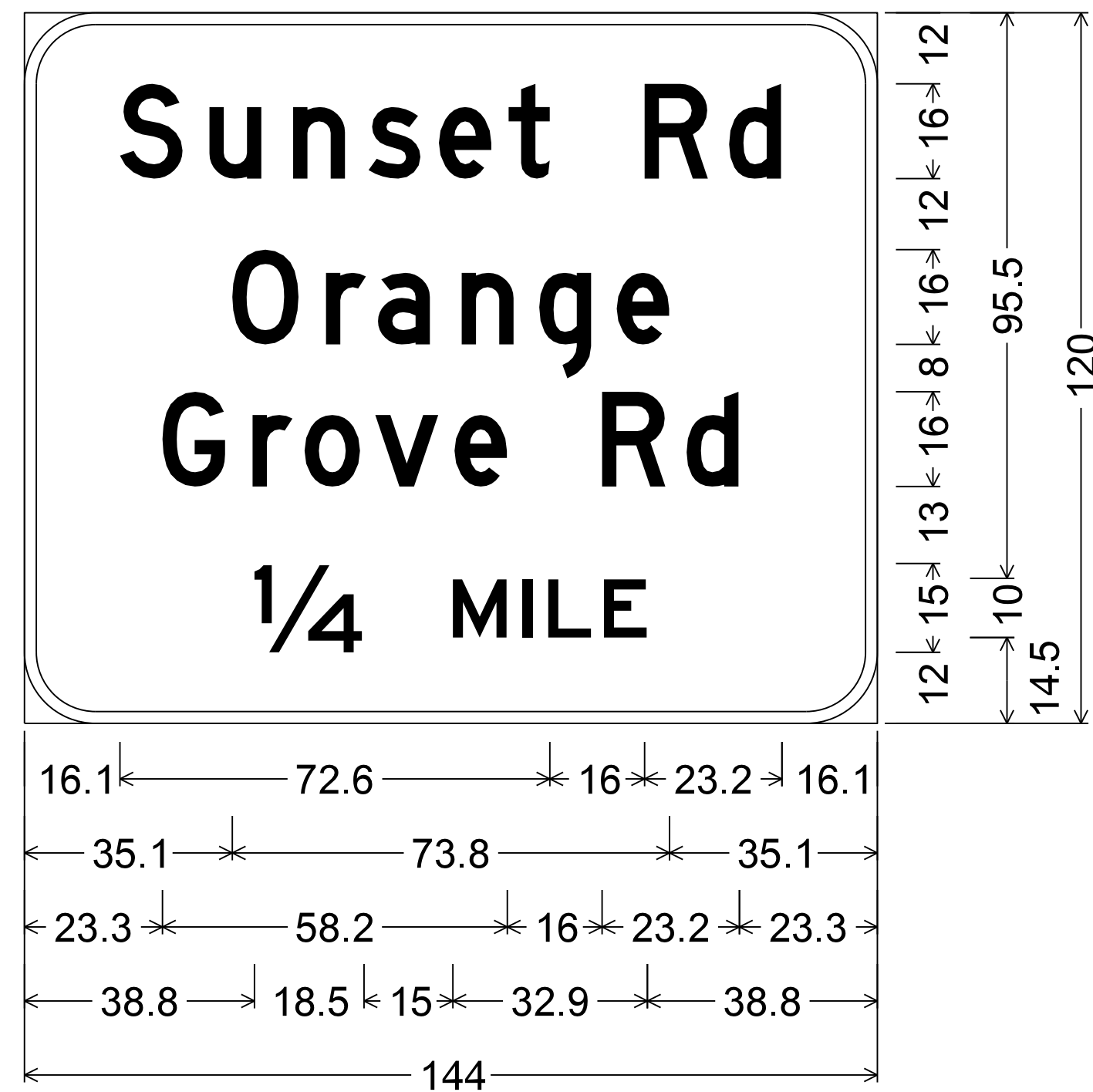
6.0" Radius, 1.0" Border, Black on Orange;  
 [El Camino Del Cerro] D;  
 [EXIT CLOSED] E; [USE NEXT EXIT] E;  
 [Sunset Rd] E;



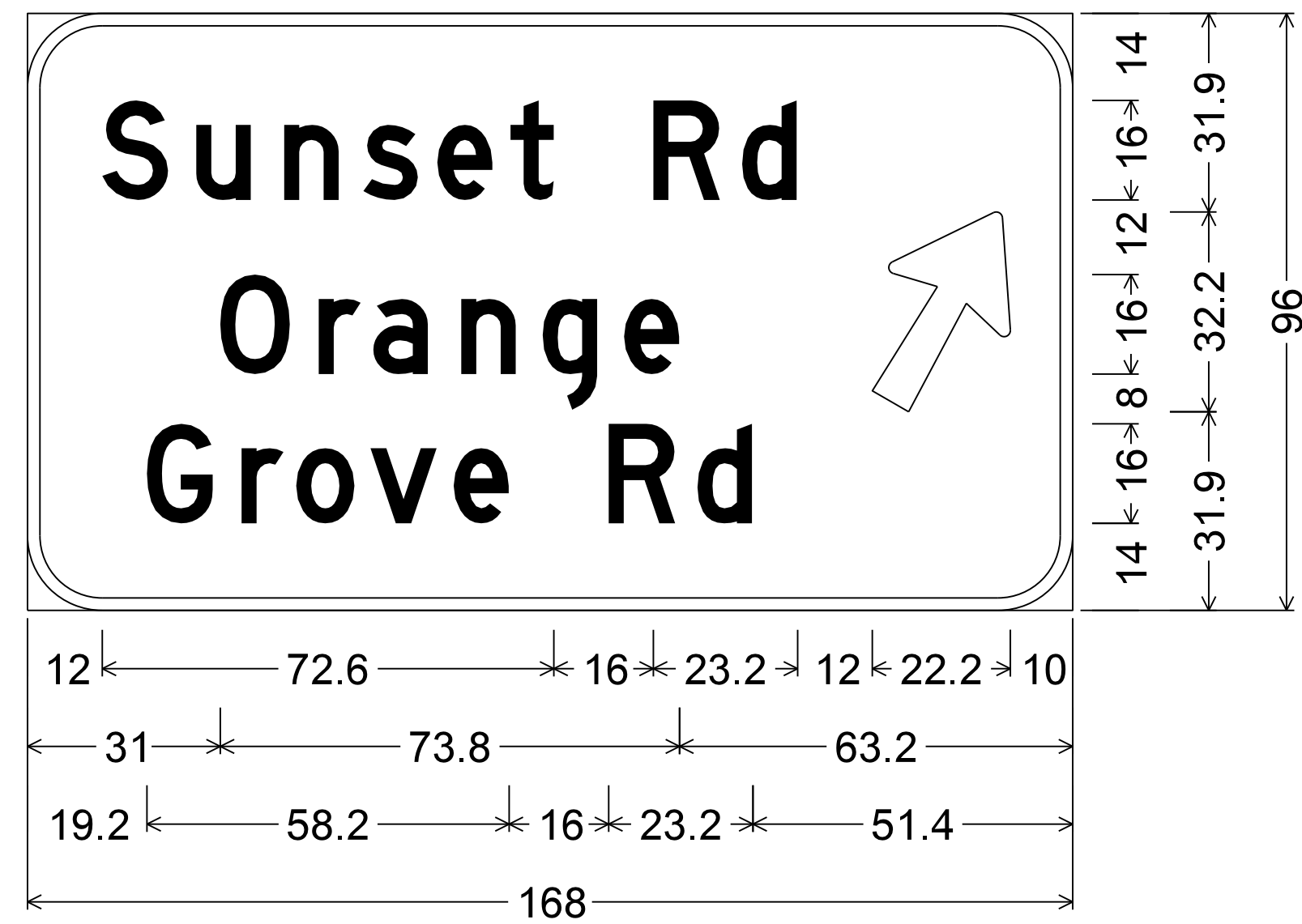
6.0" Radius, 1.0" Border, Black on Orange;  
 [Ruthrauff Rd] E; [EXIT CLOSED] E;  
 [USE NEXT EXIT] E; [Orange Grove Rd] E;



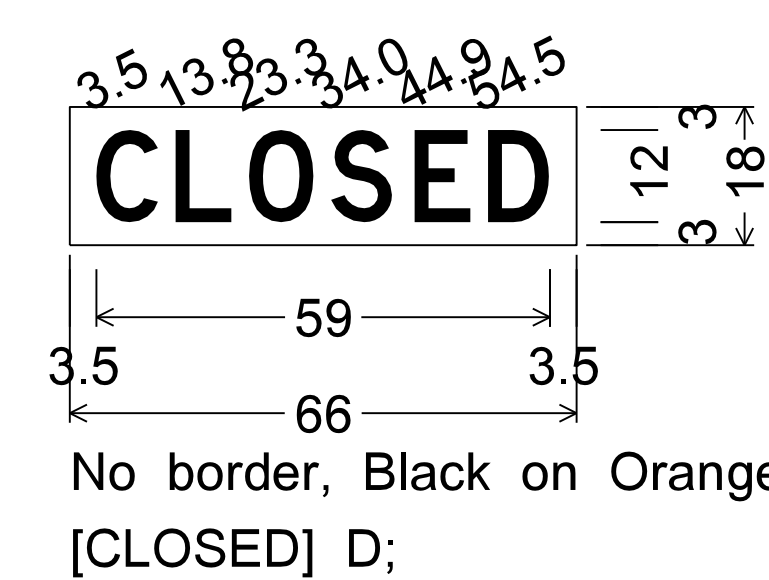
6.0" Radius, 1.0" Border, Black on Orange;  
 [Ruthrauff Rd] E; [EXIT CLOSED] E;  
 [USE NEXT EXIT] E; [Prince Rd] E;



12.0" Radius, 2.0" Border, Black on Orange;  
 [Sunset Rd] D; [Orange] D;  
 [Grove Rd] D; [1/4] E; [MILE] E;



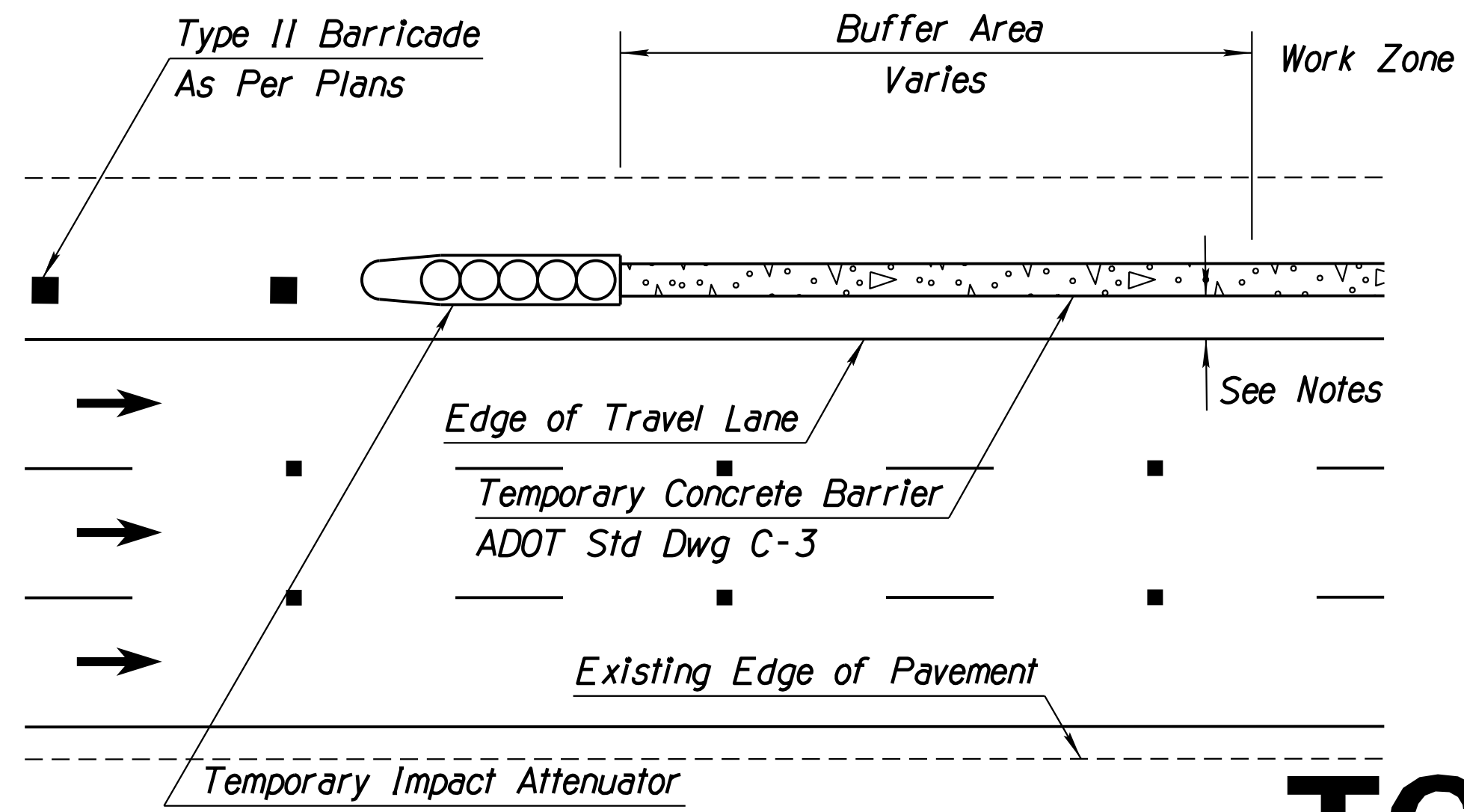
12.0" Radius, 2.0" Border, Black on Orange;  
 [Sunset Rd] D; [Orange] D; [Grove Rd] D;  
 Arrow 16-20 Type A - 35.0" 60°;



No border, Black on Orange;  
 [CLOSED] D;

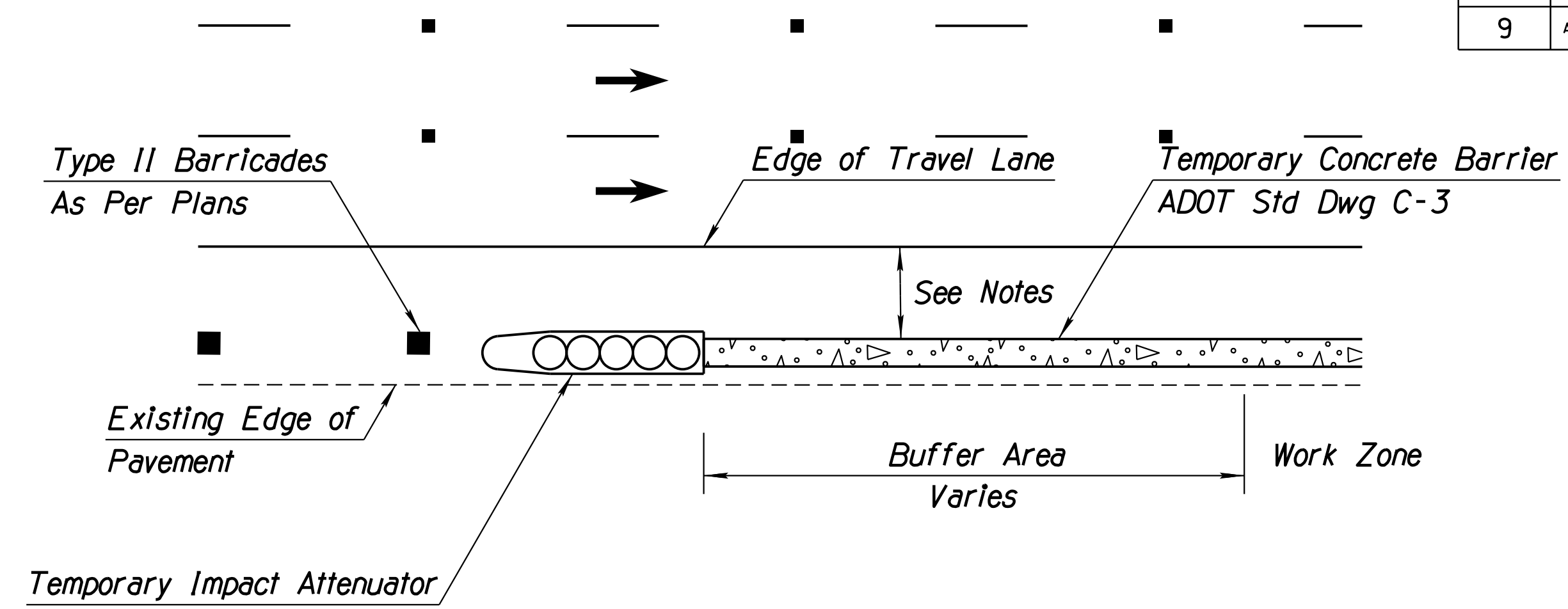
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
JV		3-19	
CPG		3-19	
JJK		3-19	
			TRAFFIC CONTROL PLANS SIGN FORMATS 
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-3.03
TRACS NO. H 8480 OIC			010-D(213)S
			OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	430	849	
010 PM 252					



**DETAIL TC-1**  
INSIDE SHOULDER TCB

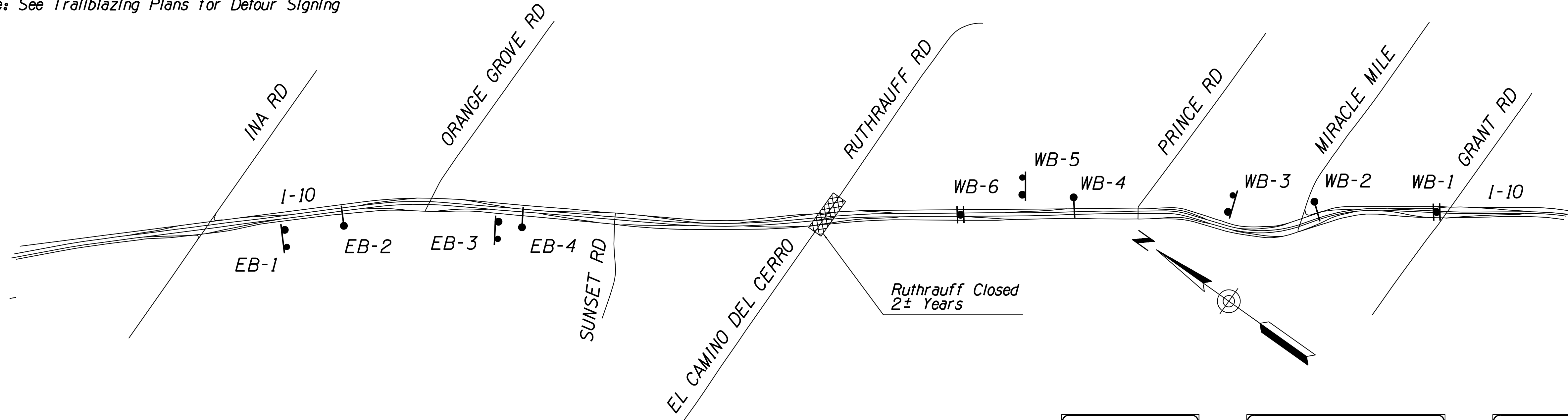
Note: TCB offsets vary. See Traffic Control Plans.



**DETAIL TC-2**  
OUTSIDE SHOULDER TCB

Note: TCB offsets vary. See Traffic Control Plans.

Note: See Trailblazing Plans for Detour Signing



- LEGEND**
- Existing Overhead Cantilever Sign Structure
  - Existing Overhead Median Sign Structure
  - Temporary Ground-Mounted Guide Sign
  - CLOSED** "CLOSED" Plaque. Cover Existing Distance.

<p>Orange Grove Rd 1/4 Sunset Rd 1 1/4 El Camino del Cerro Ruthrauff Rd <b>CLOSED</b></p> <p style="text-align: center;">EB-2</p>	<p>Miracle Mile 77 1/2 Prince Rd 1 El Camino del Cerro Ruthrauff Rd <b>CLOSED</b></p> <p style="text-align: center;">WB-1</p>	<p style="text-align: center;">EXIT 252</p> <p>El Camino Del Cerro Ruthrauff Rd <b>CLOSED</b></p> <p style="text-align: center;">WB-4</p>	<p>Ruthrauff Rd EXIT CLOSED USE NEXT EXIT Orange Grove Rd EB-1</p>	<p>El Camino Del Cerro EXIT CLOSED USE NEXT EXIT Sunset Rd EB-3 (WB-5)</p>	<p>Ruthrauff Rd EXIT CLOSED USE NEXT EXIT Prince Rd WB-3</p>
---	---	---	--	--	--

<p>Sunset Rd 1/4 El Camino del Cerro Ruthrauff Rd <b>CLOSED</b> Prince Rd 2 3/4</p> <p style="text-align: center;">EB-4</p>	<p>Prince Rd 1/2 El Camino del Cerro Ruthrauff Rd <b>CLOSED</b> Sunset Rd 3 1/2</p> <p style="text-align: center;">WB-2</p>	<p>El Camino del Cerro Ruthrauff Rd <b>CLOSED</b> Sunset Rd 1 1/2 Orange Grove Rd 2 1/2</p> <p style="text-align: center;">WB-6</p>
---	---	---

**DETAIL TC-3**  
ADVANCE GUIDE SIGN MODIFICATIONS  
(EB PHASE 2A-PHASE 3C / WB PHASE 2A-PHASE 3B)

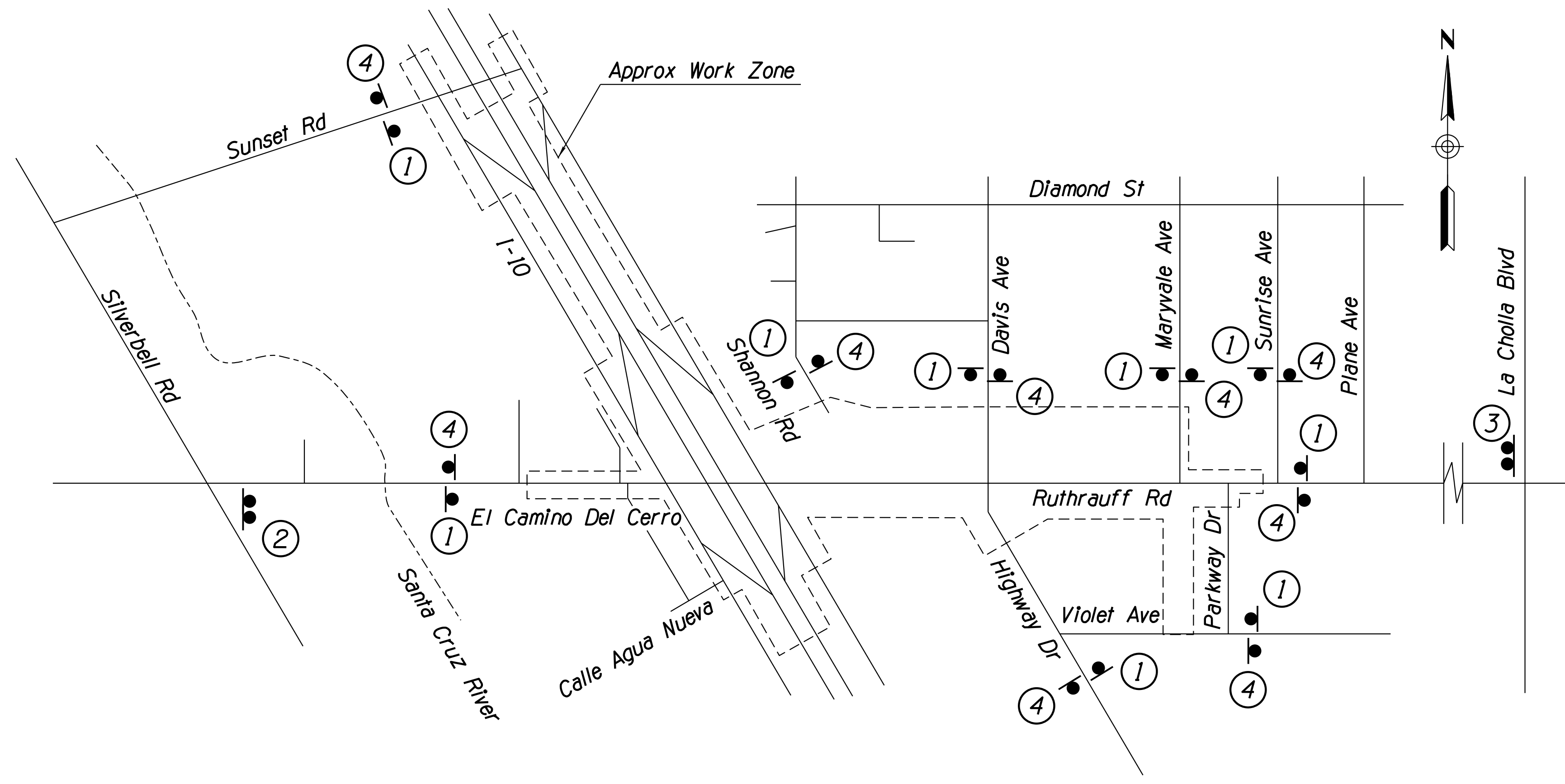
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	JV	3-19	
CHECKED	CPG	3-19	
<p style="text-align: center;"><b>wsp</b></p> <p style="font-size: small;">WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p>			<p><b>TRAFFIC CONTROL PLANS DETAILS</b></p>
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	DWG NO. T-3.04 OF



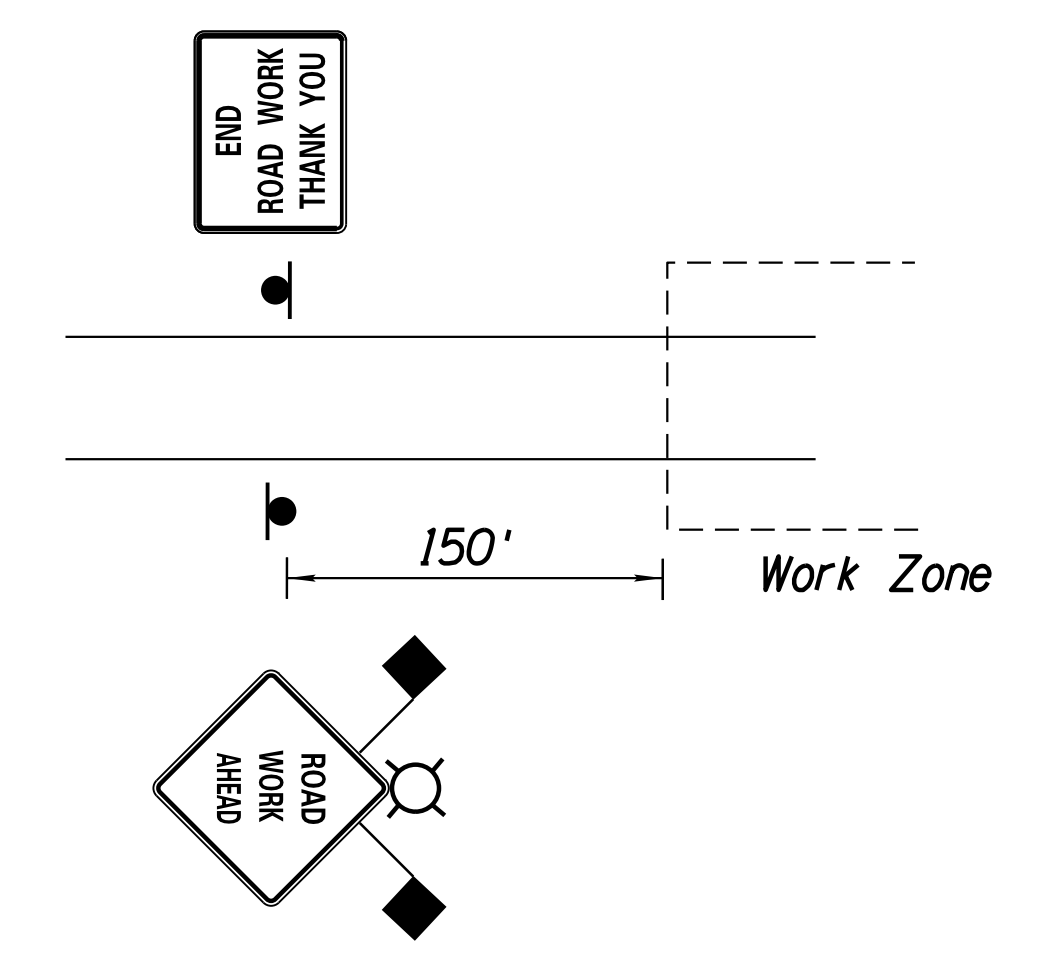
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	432	849	

010 PM 252

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

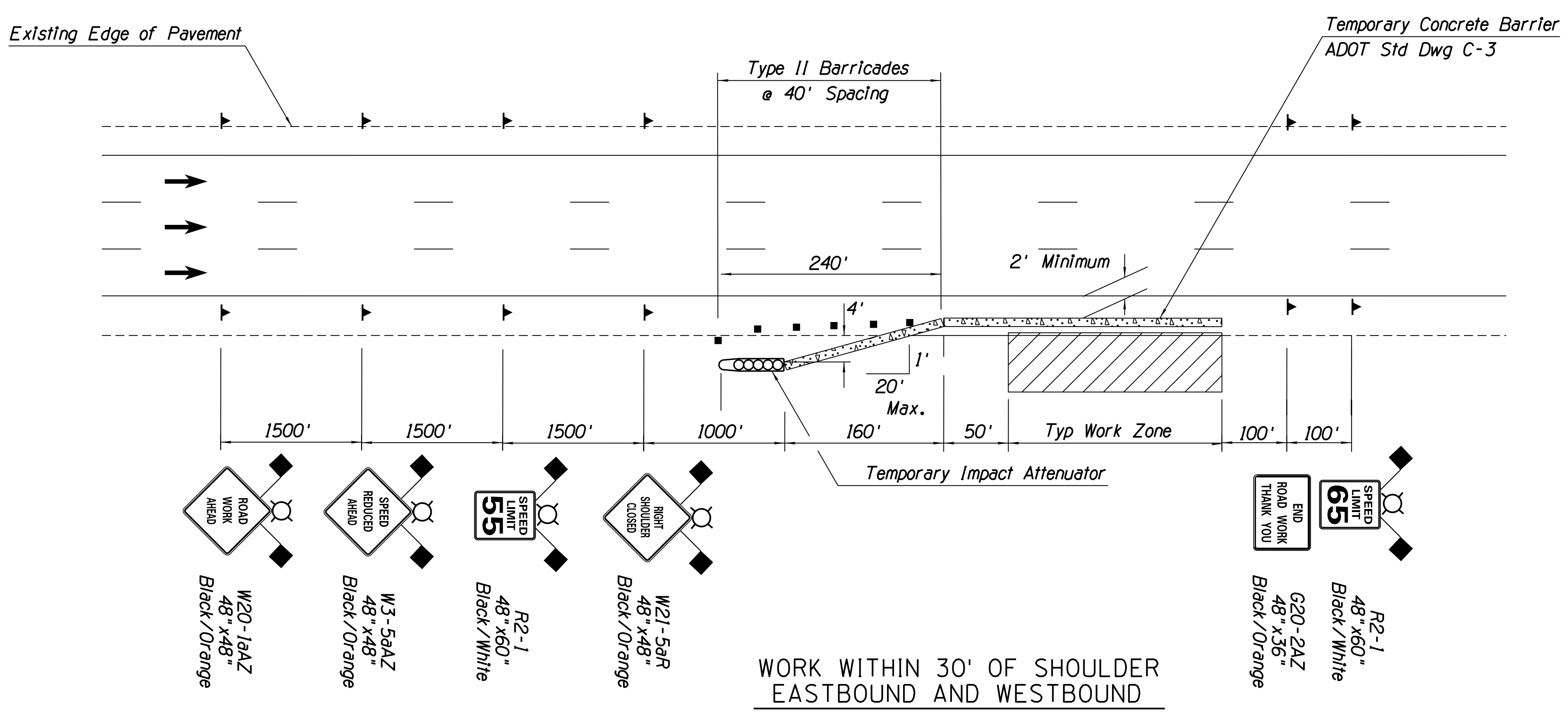


- ① **ROAD WORK AHEAD**  
W20-1aAZ  
36"x36"  
Black/Orange
- ② **ROAD CLOSED**  
1/2 MILES AHEAD  
LOCAL TRAFFIC ONLY  
R11-3b  
60"x30"  
Black/White
- ③ **ROAD CLOSED**  
1 MILES AHEAD  
LOCAL TRAFFIC ONLY  
R11-3b  
60"x30"  
Black/White
- ④ **END ROAD WORK THANK YOU**  
G20-2AZ  
48"x36"  
Black/Orange



LOCAL STREET SIGN PLACEMENT

LOCAL STREET ADVANCE SIGNS



**LEGEND**

- Work Zone
- Type II Barricade
- Sign on Spring Panel
- Direction of Travel
- Temporary Impact Attenuator
- Temporary Concrete Barrier

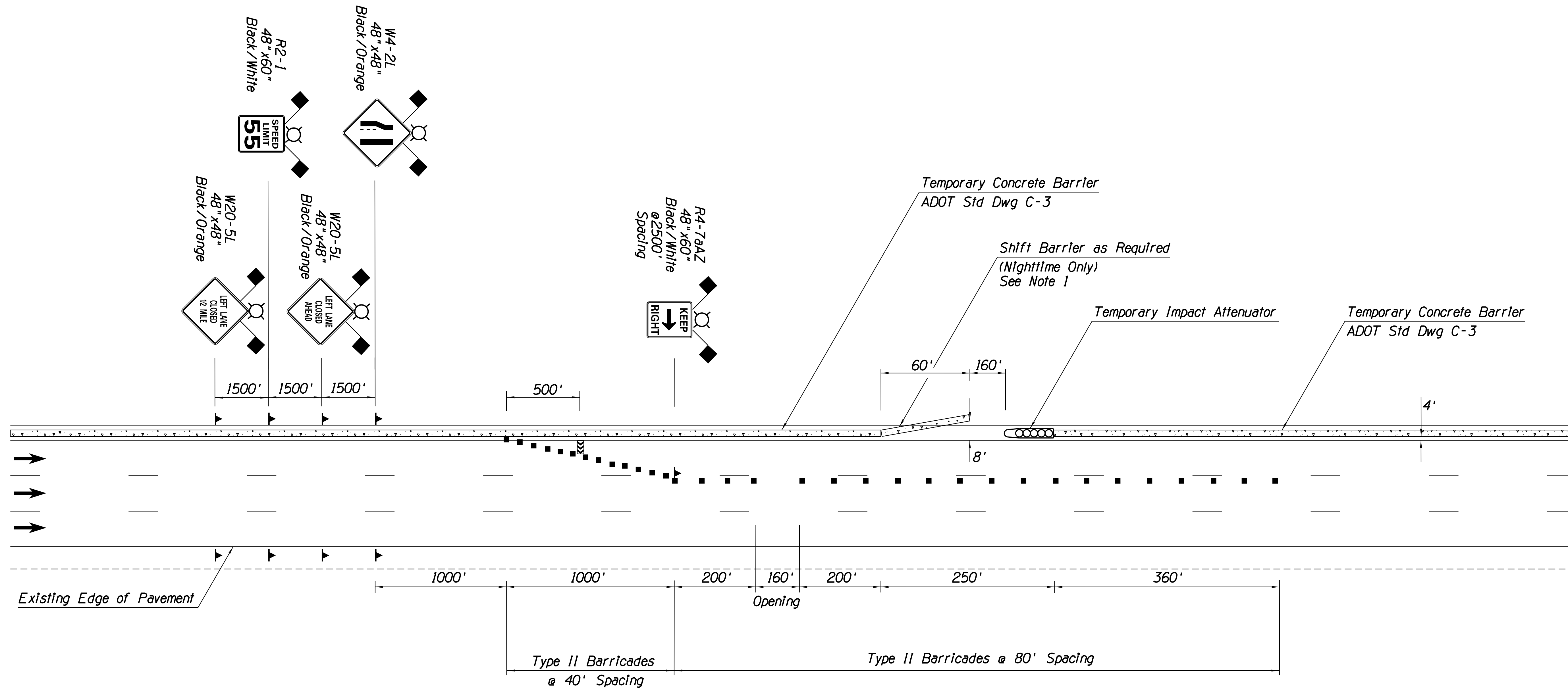
# DETAIL TC-5

LOCAL STREET ADVANCE SIGNS  
WORK WITHIN 30' OF SHOULDER  
EASTBOUND AND WESTBOUND

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLANS DETAILS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	433	849	

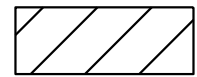


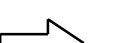


010 PM 252



**NOTES:**

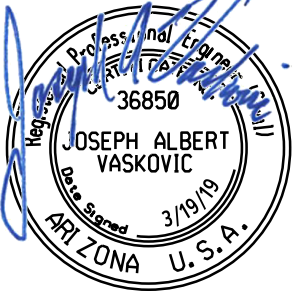
1. No separate payment will be made for the expense to shift the temporary concrete barrier shown in this detail. The cost shall be included in Bid Item No. 7016020 - Temporary Concrete Barrier (In Use).
2. Sand Barrel Crash Cushions shall be paid under Bid Item No. 7015020 and 7016021, Temporary Impact Attenuator (Installation and Removal) and (In Use). One access detail is anticipated per phase.
3. See TC-4 for advance signing.

**LEGEND**

-  Work Zone
-  Type II Barricade
-  Sign on Spring Panel
-  Direction of Travel
-  Flashing Arrow Panel
-  Temporary Concrete Barrier

# DETAIL TC-6

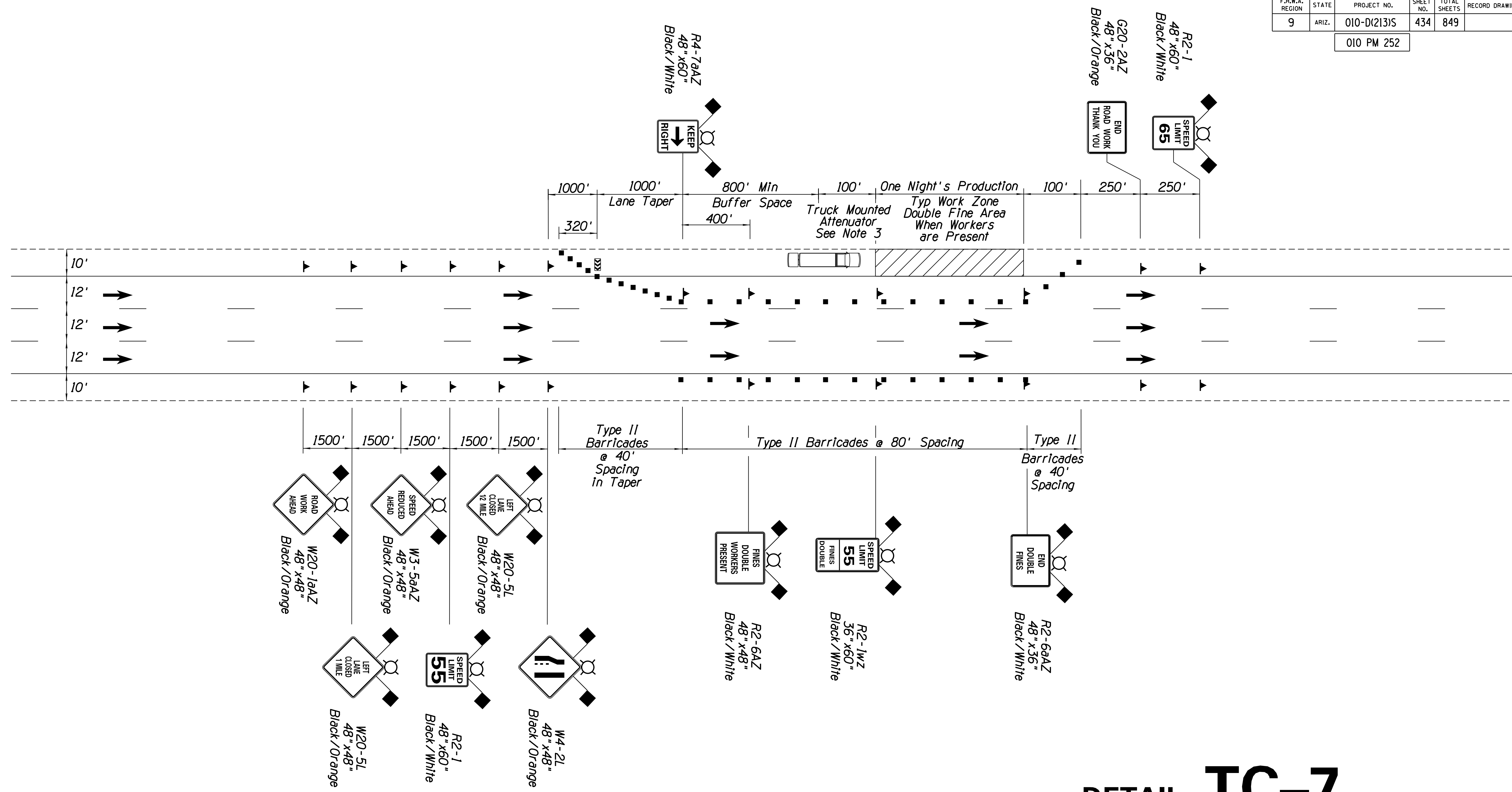
TYPICAL OUTSIDE SHOULDER ACCESS DETAIL  
(NIGHT-TIME ONLY)

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		 JOSEPH ALBERT VASKOVIC REGISTERED PROFESSIONAL ENGINEER STATE OF ARIZONA U.S.A. EXPIRES 09/30/2019 DWG NO. T-3.07
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	434	849	

010 PM 252



- NOTES:**
1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
  2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
  3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.

- LEGEND**
- Work Zone
  - Type II Barricade
  - Sign on Spring Panel
  - Direction of Travel
  - Flashing Arrow Panel
  - Truck Mounted Attenuator

# DETAIL TC-7

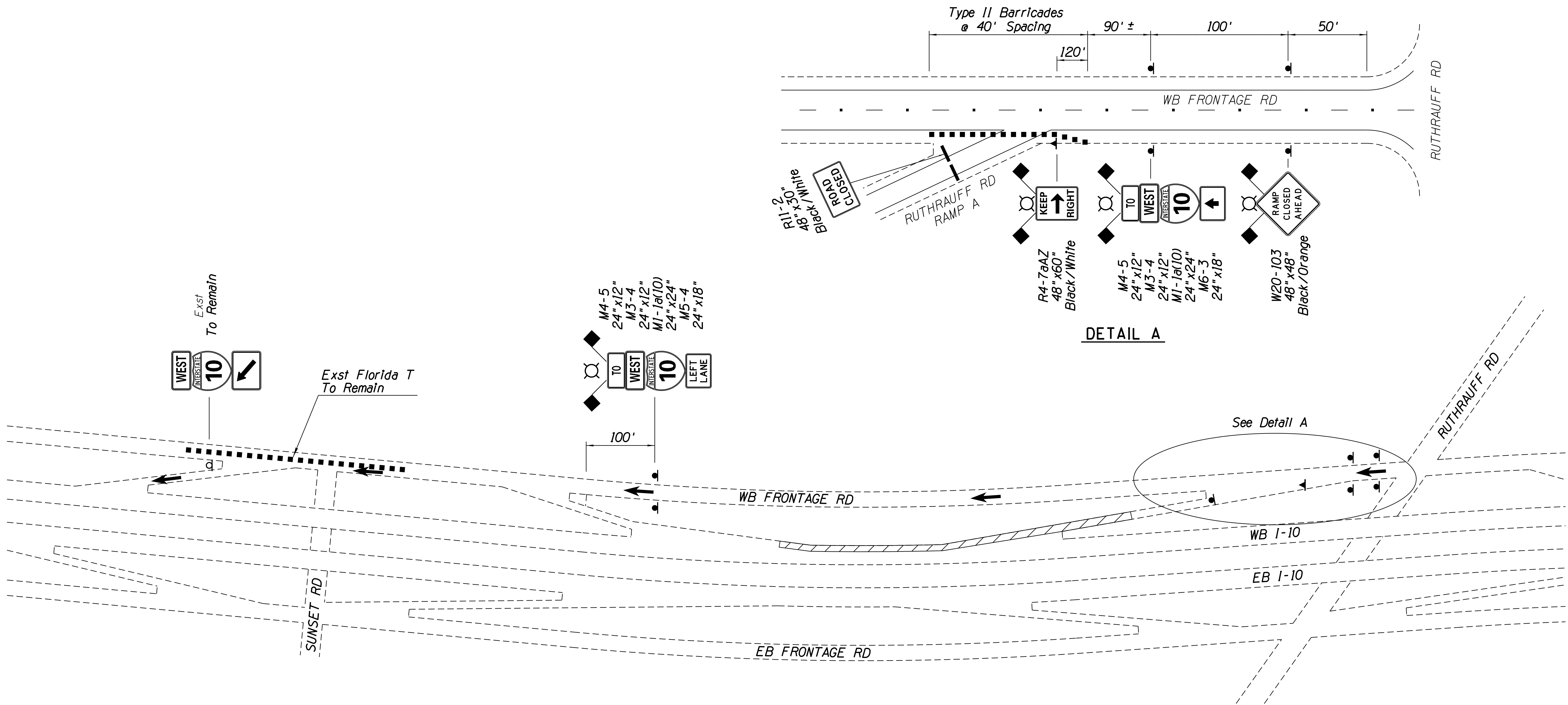
PHASE 1A - INSIDE SHOULDER PAVEMENT PRESERVATION

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC			010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-3.08 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	435	849	

010 PM 252



# DETAIL TC-8

PHASE 1B - RUTHRAUFF RAMP A CLOSURE SIGNING

### LEGEND

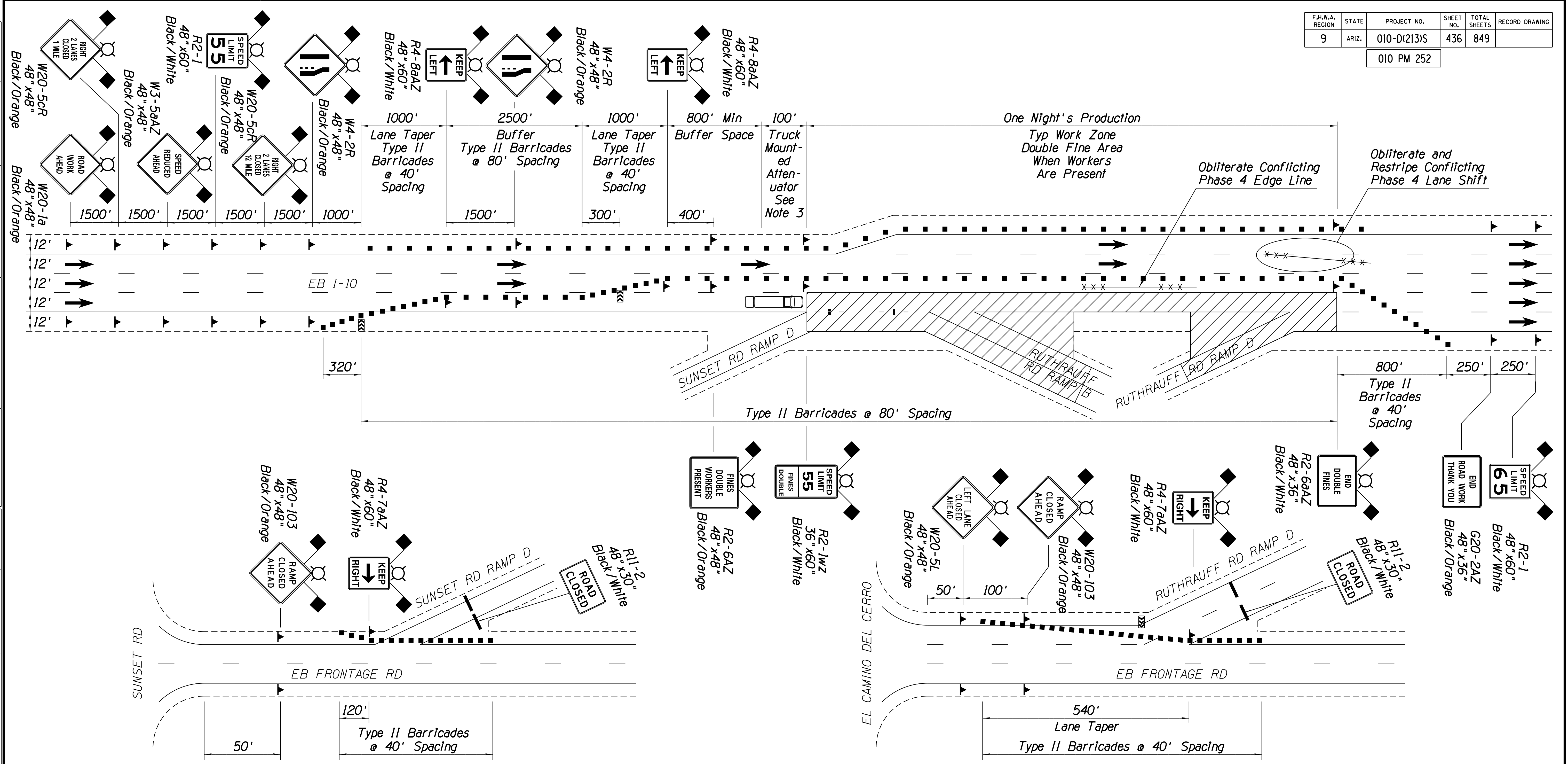
- Work Zone
- Sign on Embedded Post
- Sign on Spring Panel
- Detour Route

**NOTES:**  
1. Ramp closure shall be in place no longer than 14 calendar days.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		TRAFFIC CONTROL PLANS DETAILS	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC				010-D(213)S	
				EXPIRES 09/30/2019 DWG NO. T-3.09 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	436	849	

010 PM 252



- NOTES:**
1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
  2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
  3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.
  4. Temporarily close Sunset Rd Ramp D and Ruthrauff Rd Ramp D.
  5. See Traffic Control Plans Phase 4 for in-place striping.

- LEGEND**
- Work Zone
  - Type II Barricade
  - Sign on Spring Panel
  - Direction of Travel
  - Flashing Arrow Panel
  - Truck Mounted Attenuator

# DETAIL TC-9

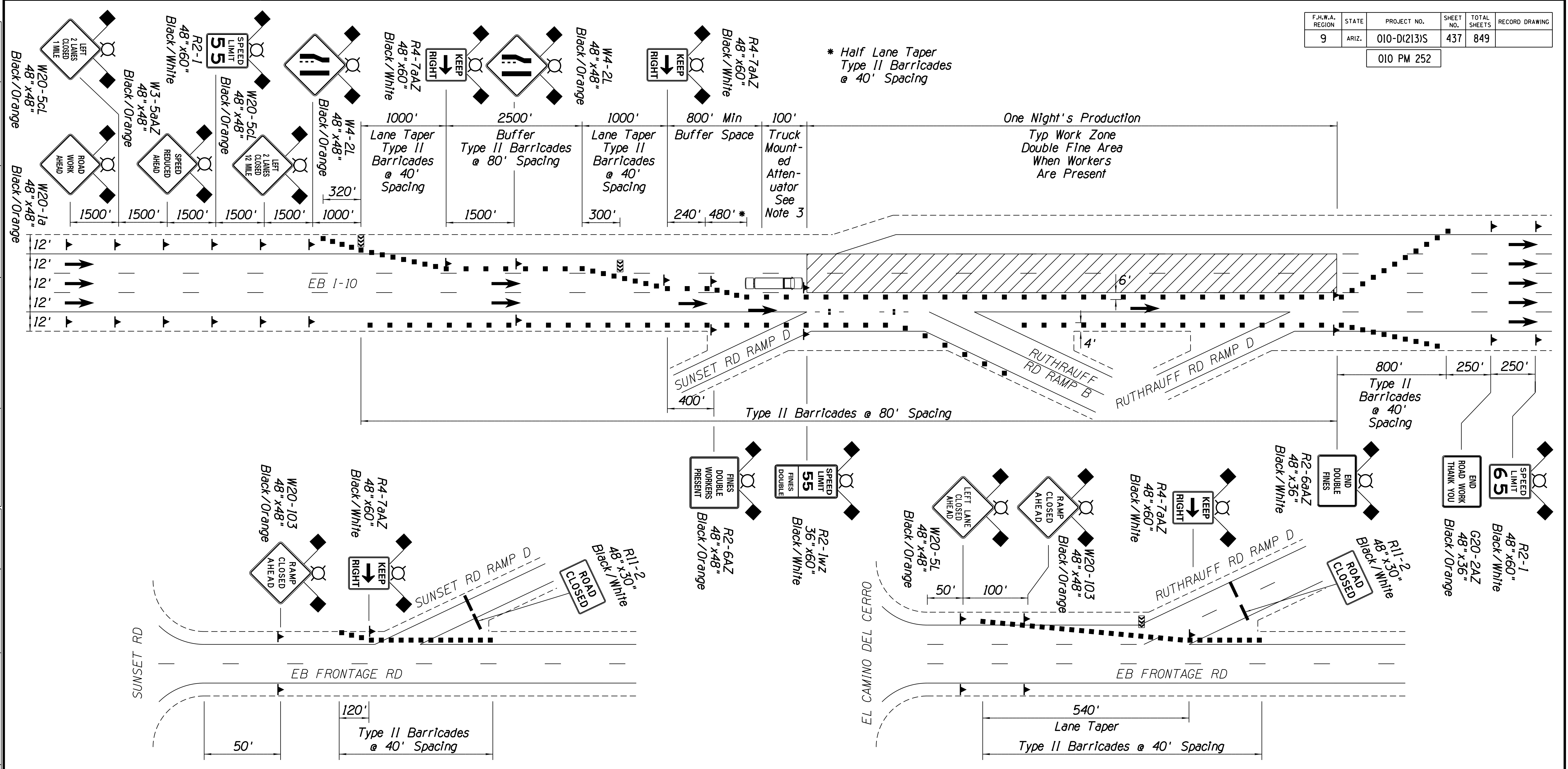
PHASE 5A - EB MILLING AND FINAL STRIPING RIGHT LANES

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLANS          DETAILS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-3.10 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	437	849	

010 PM 252



\* Half Lane Taper  
Type II Barricades  
@ 40' Spacing

One Night's Production  
Typ Work Zone  
Double Fine Area  
When Workers  
Are Present

Type II Barricades @ 80' Spacing

Type II Barricades @ 40' Spacing

Type II Barricades @ 40' Spacing

540'  
Lane Taper  
Type II Barricades @ 40' Spacing

**LEGEND**

- Work Zone
- Type II Barricade
- Type III Barricade w/Type A Lights
- Sign on Spring Panel
- Direction of Travel
- Flashing Arrow Panel
- Truck Mounted Attenuator

**DETAIL TC-10**

PHASE 5B - EB MILLING AND FINAL STRIPING  
MIDDLE LANES

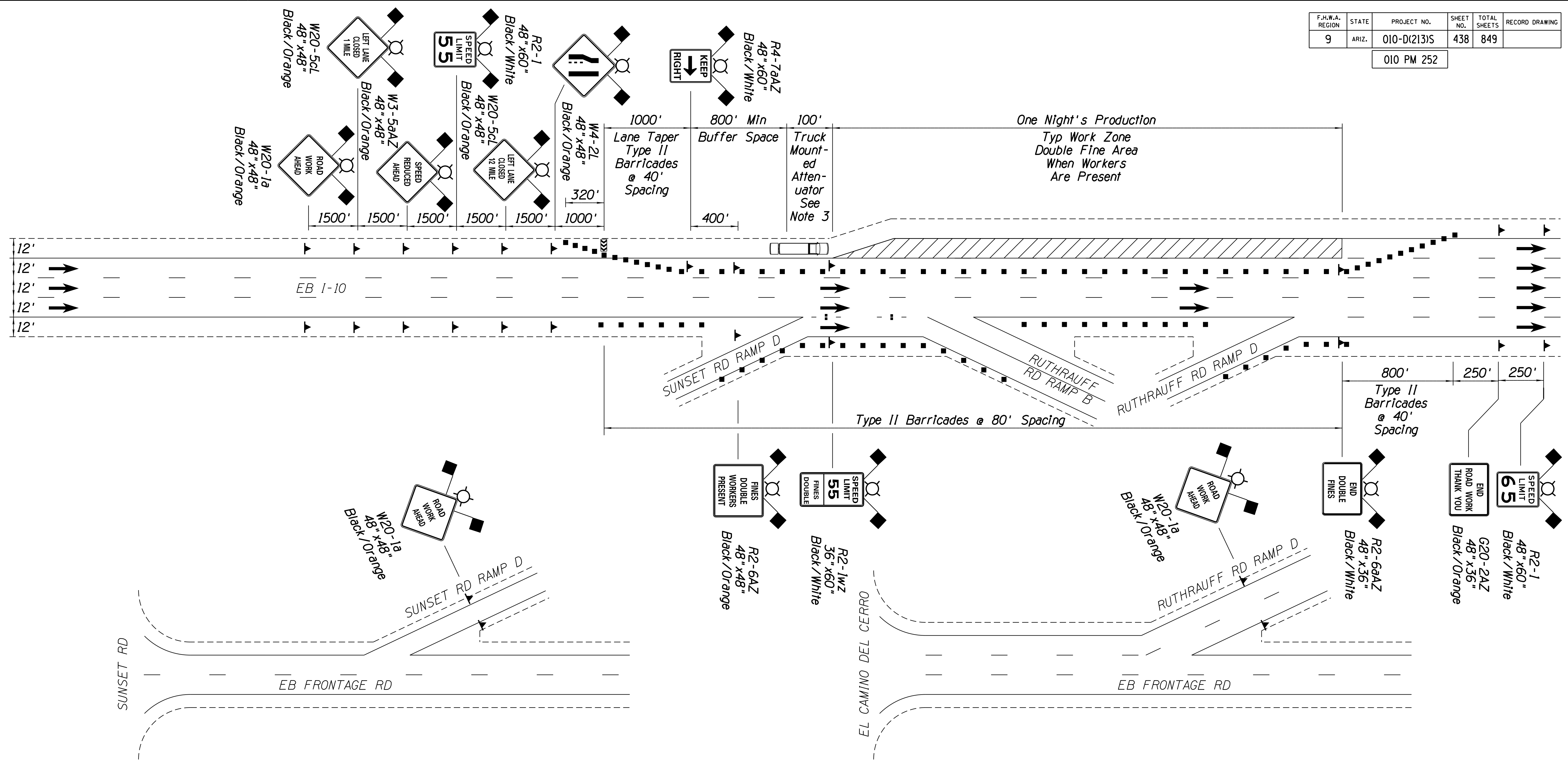
**NOTES:**

1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.
4. Temporarily close Sunset Rd Ramp D and Ruthrauff Rd Ramp D.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLANS DETAILS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 09/30/2019 DWG NO. T-3.11	
TRACS NO. H 8480 OIC			010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	438	849	

010 PM 252



- NOTES:**
1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
  2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
  3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.

**LEGEND**

	Work Zone
	Type II Barricade
	Sign on Spring Panel
	Direction of Travel
	Flashing Arrow Panel
	Truck Mounted Attenuator

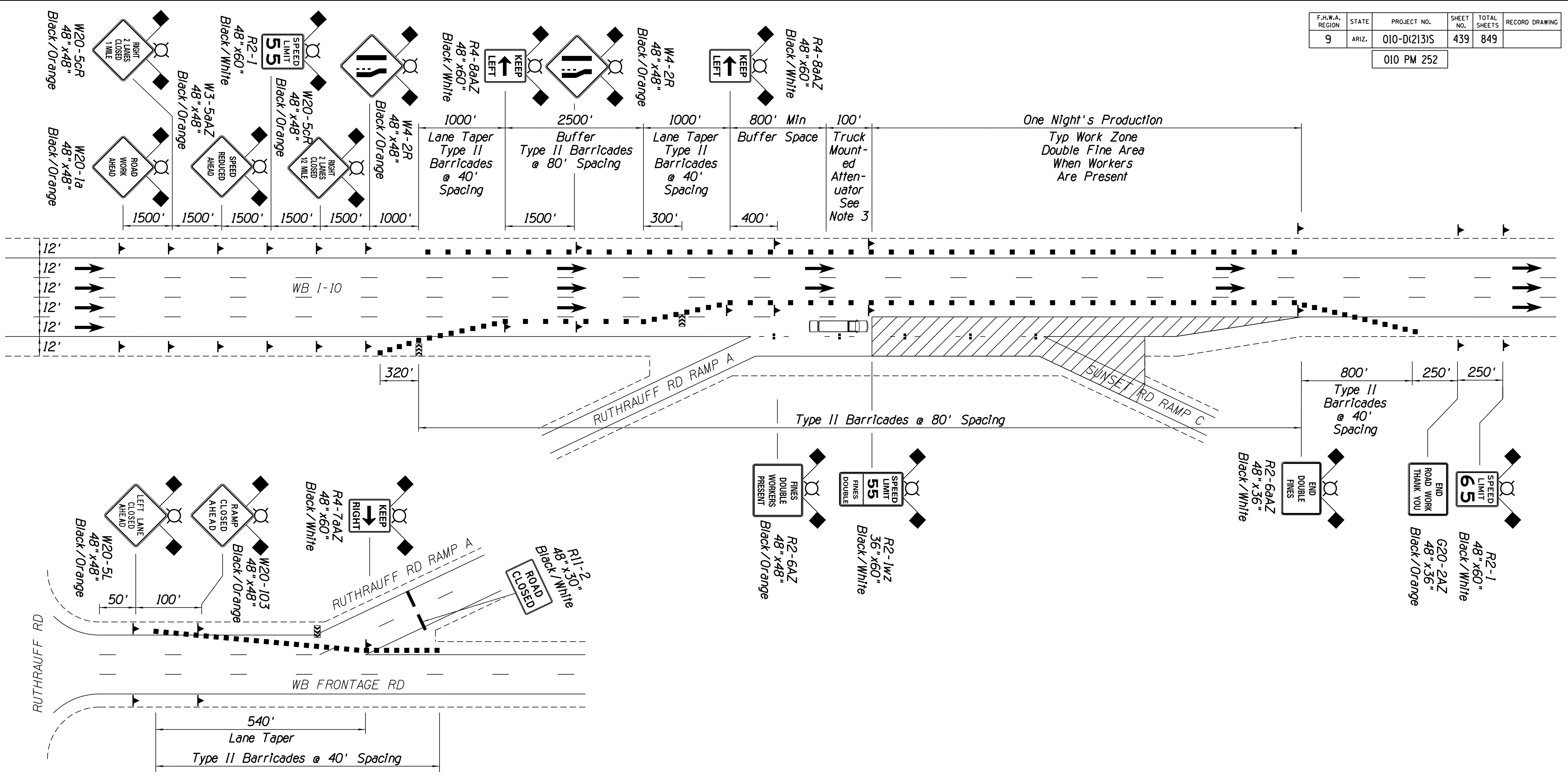
# DETAIL TC-11

PHASE 5C - EB MILLING AND FINAL STRIPING LEFT LANE

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLANS DETAILS</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-3.12 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	439	849	

010 PM 252



One Night's Production  
Typ Work Zone  
Double Fine Area  
When Workers  
Are Present

**NOTES:**

1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.
4. Temporarily close Sunset Rd Ramp C and Ruthrauff Rd Ramp A.
5. See Traffic Control Plans Phase 4 for in-place striping. Final striping assumed to have been completed over WB PCCP in Phase 3.

**LEGEND**

- Work Zone
- Type II Barricade
- Sign on Spring Panel
- Direction of Travel
- Flashing Arrow Panel
- Truck Mounted Attenuator

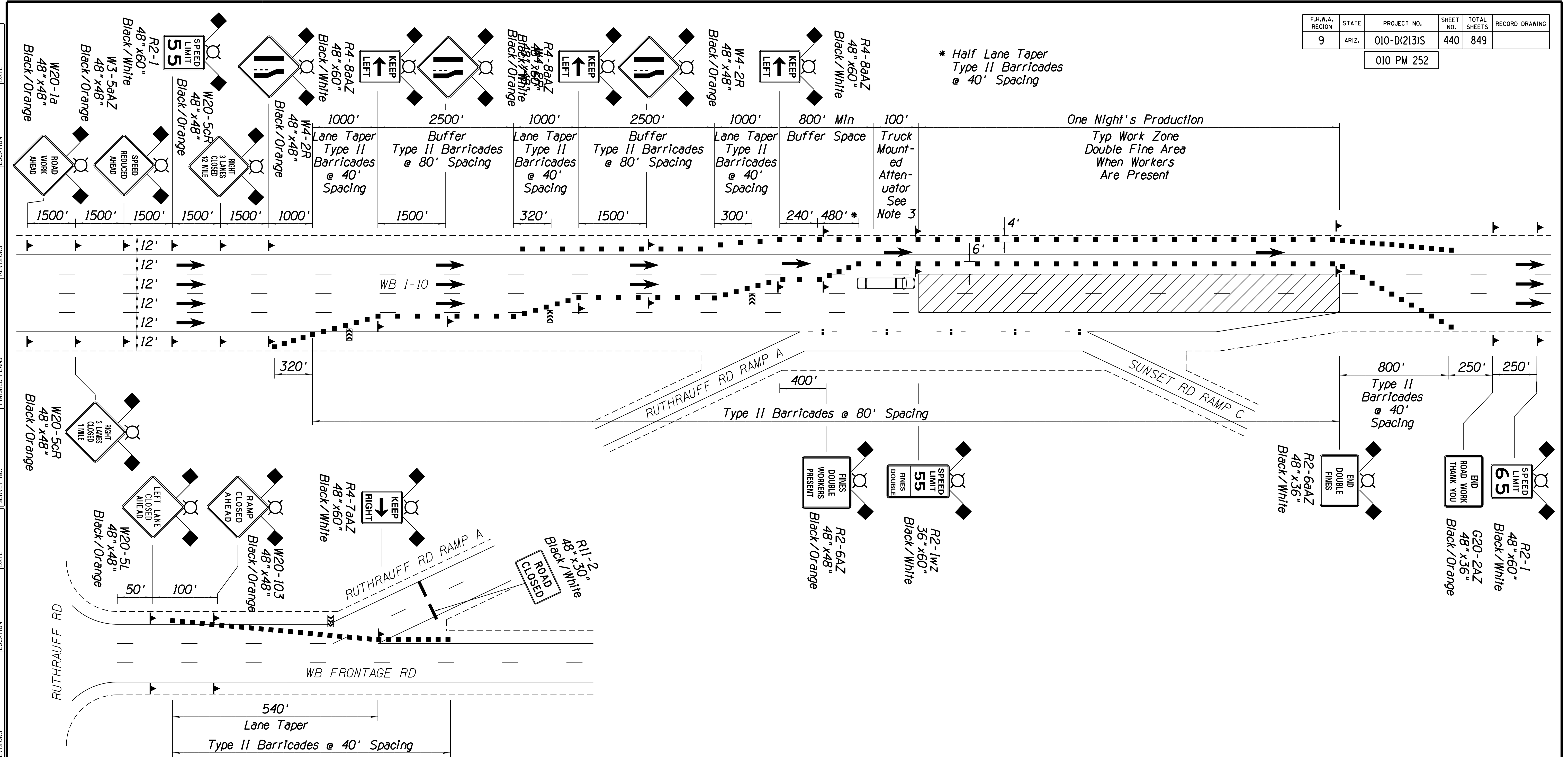
# DETAIL TC-12

PHASE 5A - WB MILLING AND FINAL STRIPING  
RIGHT LANES

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		TRAFFIC CONTROL PLANS DETAILS	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-3.13 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	440	849	

010 PM 252



\* Half Lane Taper  
Type II Barricades  
@ 40' Spacing

One Night's Production  
Typ Work Zone  
Double Fine Area  
When Workers  
Are Present

**NOTES:**

1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.
4. Temporarily close Sunset Rd Ramp C and Ruthrauff Rd Ramp A.
5. See Traffic Control Plans Phase 4 for in-place striping. Final striping assumed to have been completed over WB PCCP in Phase 3.

**LEGEND**

- Work Zone
- Type II Barricade
- Sign on Spring Panel
- Direction of Travel
- Flashing Arrow Panel
- Truck Mounted Attenuator

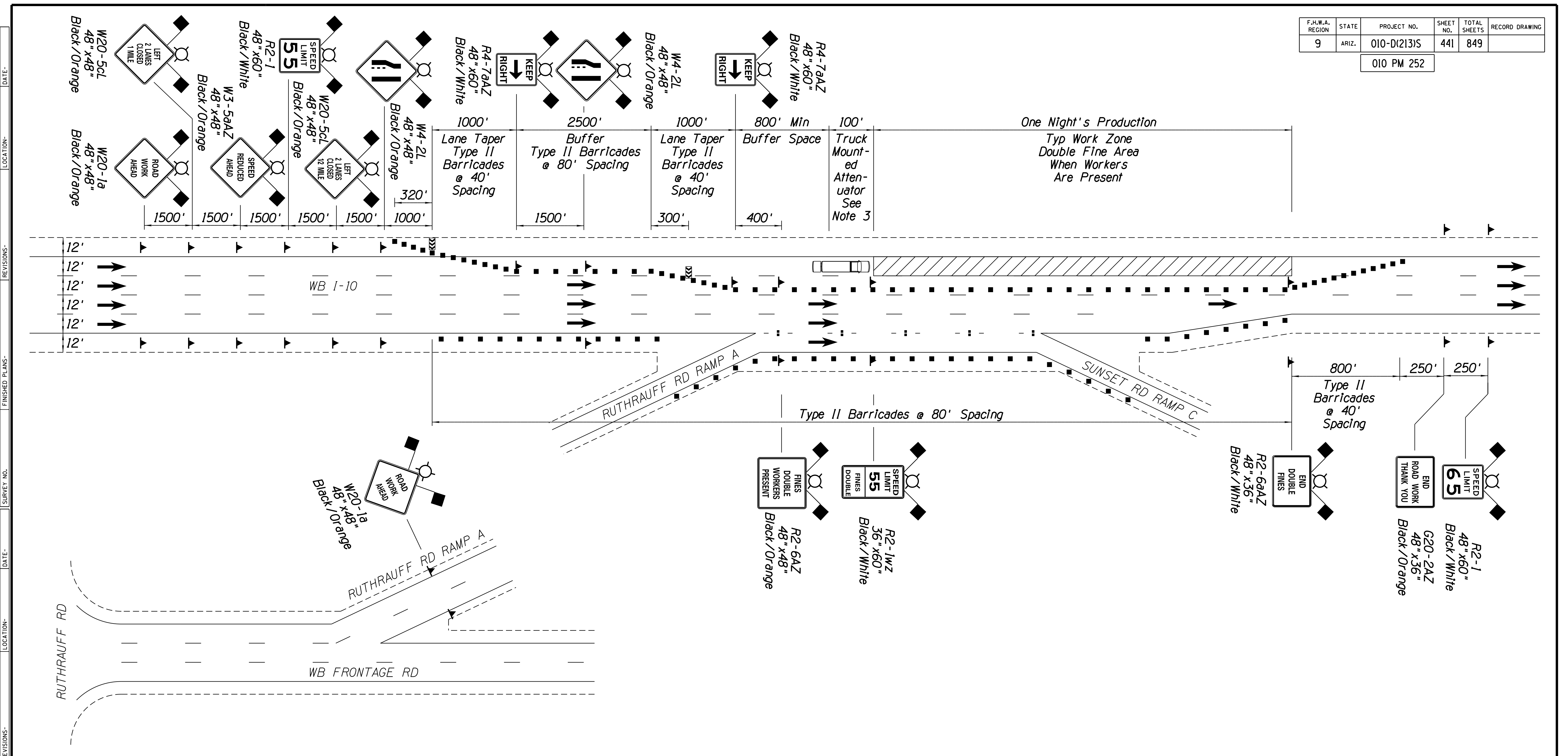
# DETAIL TC-13

PHASE 5B - WB MILLING AND FINAL STRIPING  
MIDDLE LANES

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JJK	DATE	3-19	
ROUTE		LOCATION		
1-10		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S	TRAFFIC CONTROL PLANS DETAILS EXPIRES 09/30/2019 DWG NO. T-3.14 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	441	849	

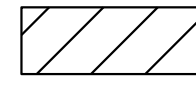


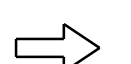


010 PM 252



**NOTES:**

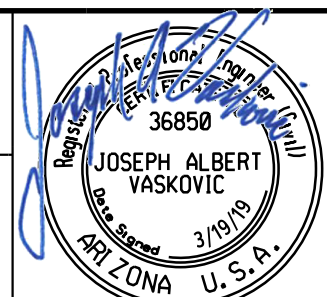
1. Double fines signs shall be placed only when workers are present in the double fine area and shall be removed immediately when workers are not in the double fine area. Existing speed limit signs in double fine areas shall be covered when these signs are visible.
2. Workers Present signs shall be placed at 2,500 foot intervals throughout the work zone where workers are present.
3. The Truck Mounted Attenuator shall be optional as directed by the Engineer.
4. Sunset Rd Ramp C and Ruthrauff Rd Ramp A to remain open.
5. See Traffic Control Plans Phase 4 for in-place striping. Final striping assumed to have been completed over WB PCCP in Phase 3.

**LEGEND**

-  Work Zone
-  Type II Barricade
-  Sign on Spring Panel
-  Direction of Travel
-  Flashing Arrow Panel
-  Truck Mounted Attenuator

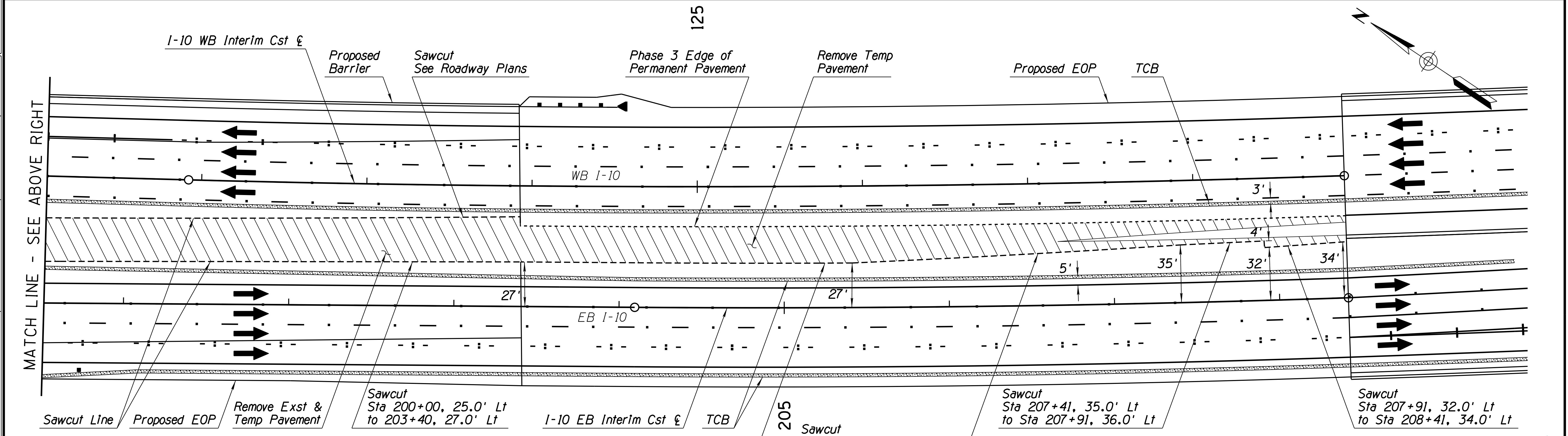
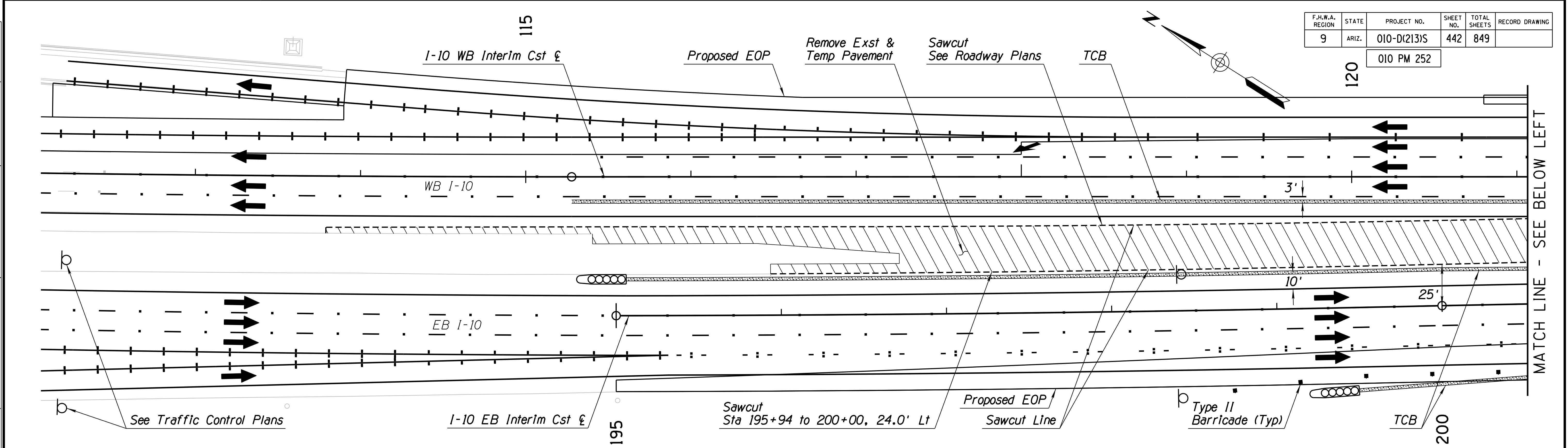
# DETAIL TC-14

PHASE 5C - WB MILLING AND FINAL STRIPING LEFT LANE

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
ROUTE		LOCATION		TRAFFIC CONTROL PLANS DETAILS	
1-10		RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-3.15	
TRACS NO. H 8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	442	849	

010 PM 252



# DETAIL TC-15

## PHASE 4 - FINAL DETOUR SAWCUTS

**NOTES:**

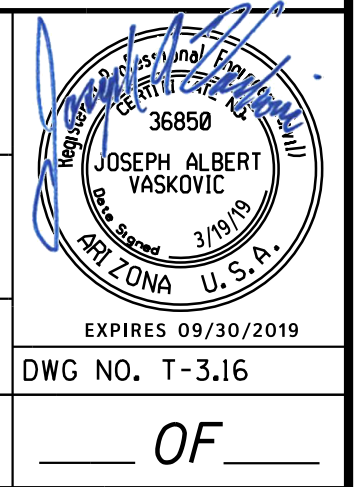
1. Phase 4 striping and TCB shown. See Traffic Control Plans for details.
2. The EB Sawcut follows the proposed edge of pavement. Construct shoulder slope with AB or millings per Roadway Plans.

DESIGN	JV	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JJK	DATE	3-19
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI
TRACS NO. H 8480 01C		010-D(213)S	

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

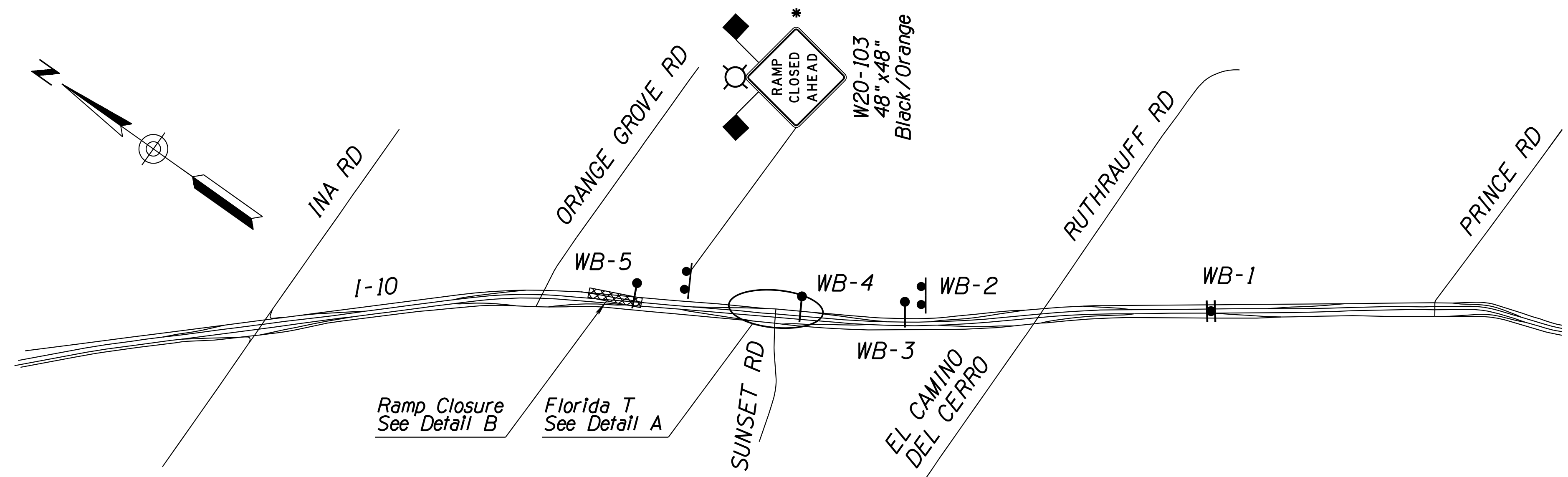
TRAFFIC CONTROL PLANS  
DETAILS

EXPIRES 09/30/2019  
DWG NO. T-3.16



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	443	849	

010 PM 252



**LEGEND**

- Existing Overhead Cantilever Sign Structure
- Existing Overhead Median Sign Structure
- Temporary Ground-Mounted Guide Sign
- Ramp Closure
- Type II Barricade
- Type III Barricade
- Direction of Travel

**CLOSED** "CLOSED" Plaque. Cover Existing Distance.

**El Camino del Cerro  
Ruthrauff Rd  
Sunset Rd  
Orange Grove Rd**

**CLOSED**

1 1/2  
2 1/2

Existing  
WB-1

**Orange Grove Rd  
EXIT CLOSED**

**USE NEXT EXIT  
Sunset Rd**

WB-2\*\*

**Sunset Rd  
Orange Grove Rd  
Ina Rd**

**CLOSED**

1/4  
2 1/2

Existing  
WB-3\*\*\*

**EXIT 250  
Orange Grove Rd**

**CLOSED**

Existing  
WB-4

**EXIT 250  
Orange Grove Rd**

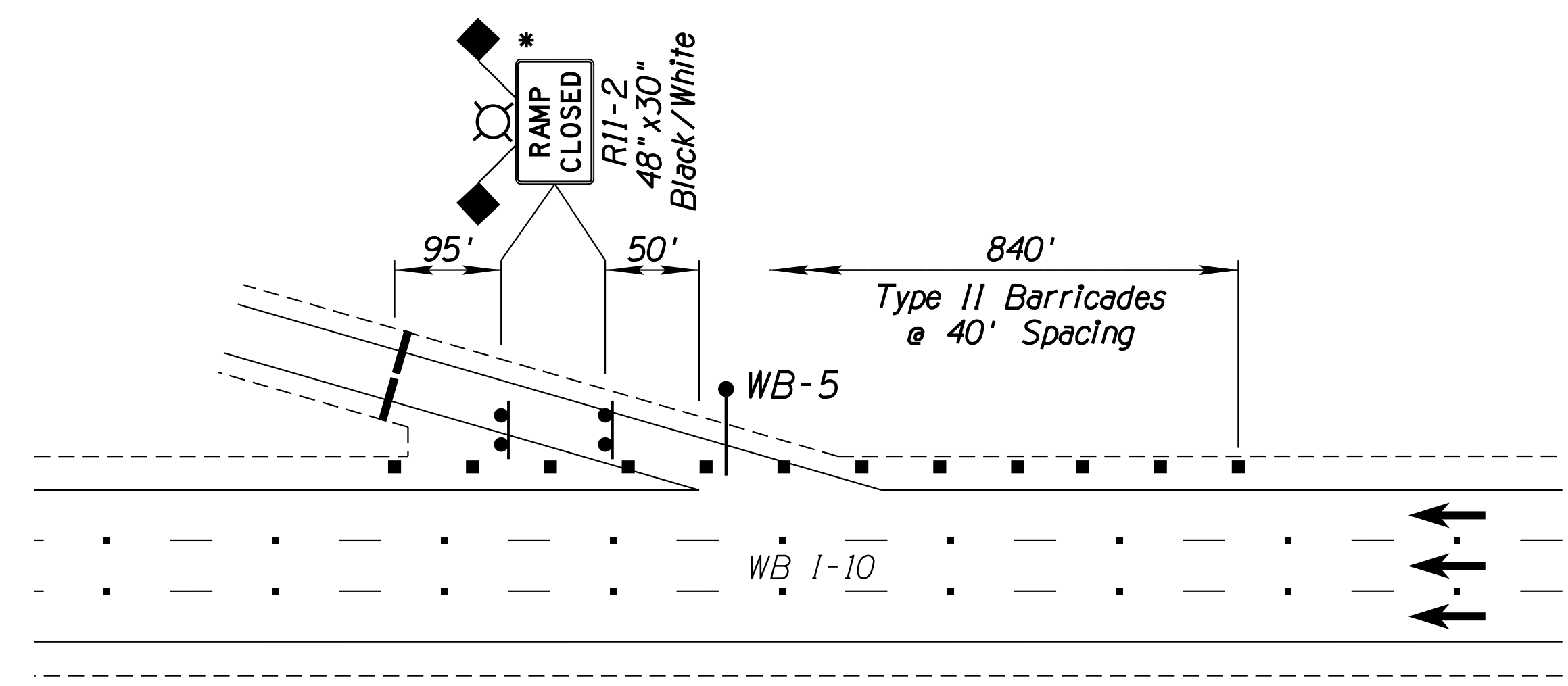
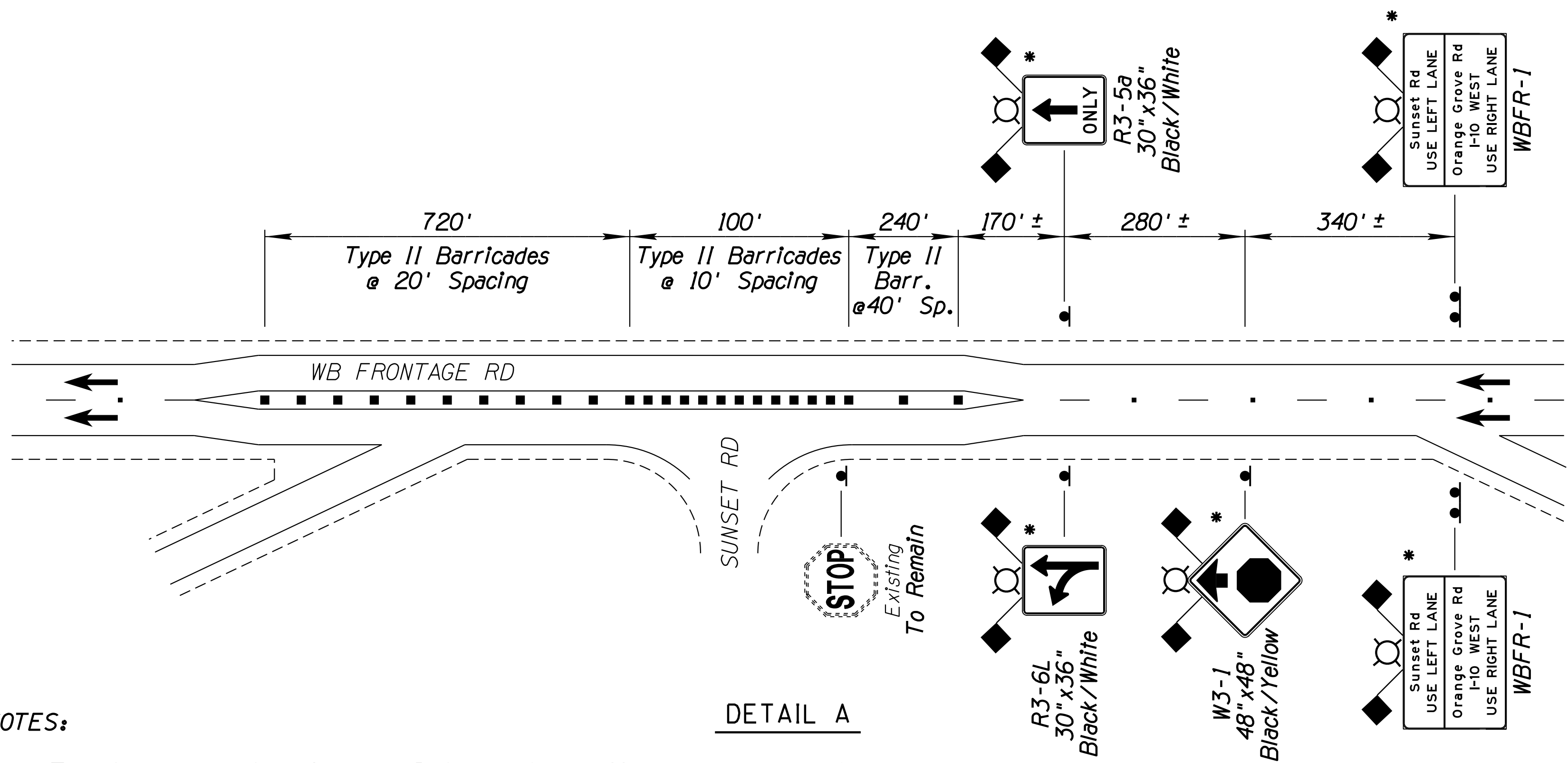
**CLOSED**

Existing  
WB-5

**Sunset Rd  
USE LEFT LANE**

**Orange Grove Rd  
I-10 WEST  
USE RIGHT LANE**

WBFR-1



**DETAIL TC-16**  
WB ORANGE GROVE ROAD  
OFF RAMP CLOSURE

**NOTES:**

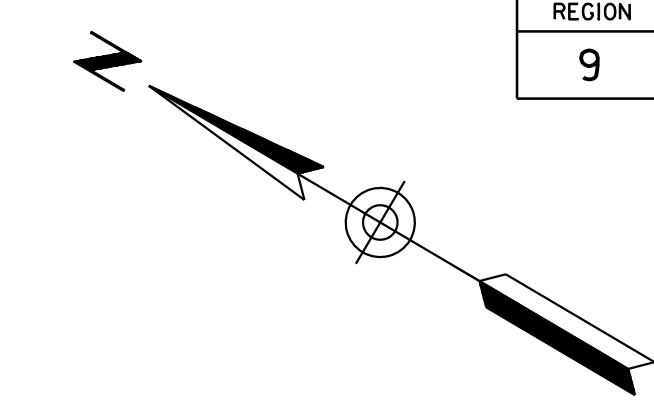
- The signs and devices for the WB Orange Grove off ramp closure are in place for the H8479 OIC Ina Road TI Project and shall remain in place for the H8480 OIC Ruthrauff Road TI Project.
- See Detail TC-3 for Ruthrauff closure advance guide sign modifications.
- The devices and sign plaques shown shall be maintained by the Contractor until the permanent WB Sunset off ramp is reopened after Phase 4, or as otherwise directed by the Engineer.

- \* Sign from H8479 OIC Ina Road TI Project.
- \*\* Relocate sign in Phase 1B. Sign may be removed in Phase 2A.
- \*\*\* Permanent sign to be removed as part of Project.

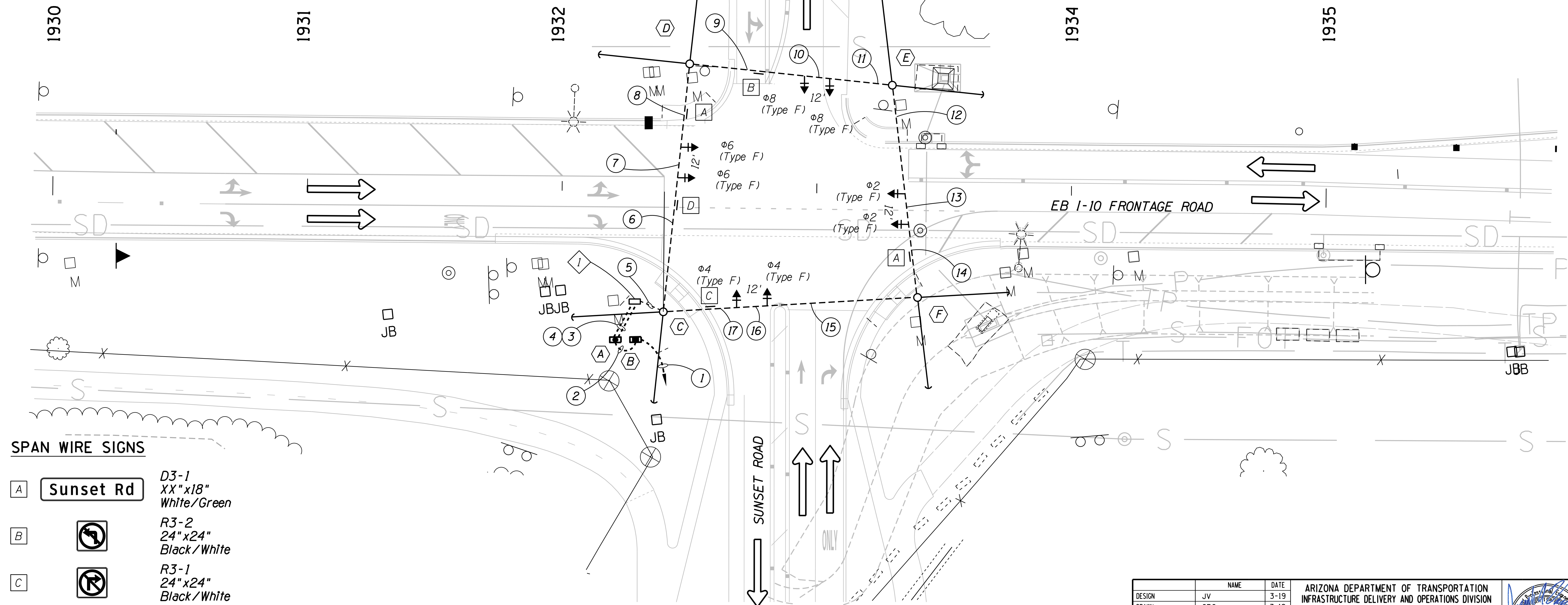
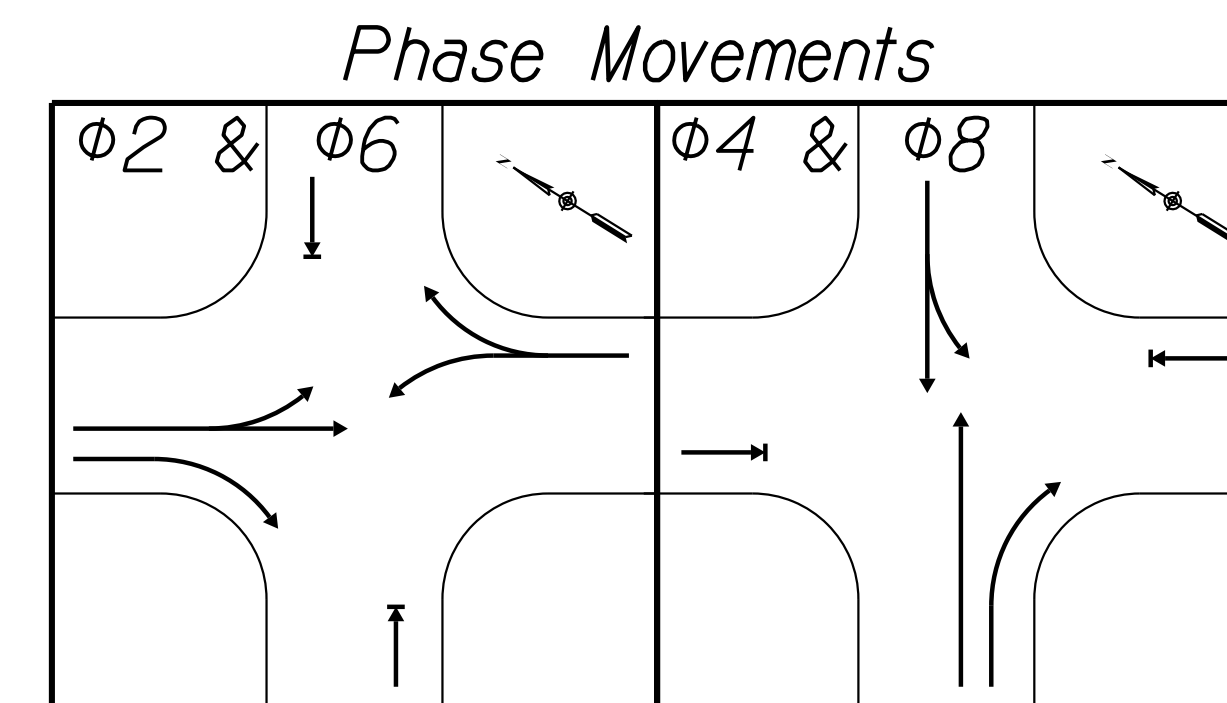
DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>TRAFFIC CONTROL PLANS DETAILS</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-3.17 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	444	849	

010 PM 252



LEGEND			
Symbol	Description	Symbol	Description
(X)	Conduit Run, See Conductor Schedule	☐	Control Cabinet, See Schedule
◇	Pull Box, See Schedule	○	Wood Pole w/ Guy Wire, See Schedule
⊗	Traffic Signal Equipment, See Pole and Equipment Schedule	➔	Vehicle Traffic Signal Face (12")
□	No. 7 Pull Box, See Schedule	▲	Sign on Spring Stand
■	Meter Pedestal, See Schedule	■	Type II Barricades
➔	Direction of Travel	—	Type III Barricades



**SPAN WIRE SIGNS**

- A **Sunset Rd**  
D3-1  
XX" x 18"  
White/Green
- B **R3-2**  
24" x 24"  
Black/White
- C **R3-1**  
24" x 24"  
Black/White
- D **R5-1**  
30" x 30"  
Red/White

Mount signs on span wire signals with Sign Hanger Assembly, ADOT Std Dtl T.S. 15-4

- Notes:**
- All stations & offsets are to the EB I-10 Frontage Rd Cst & unless otherwise noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES EB I-10 FRONTAGE RD/SUNSET RD TEMPORARY SIGNAL PLAN PHASE 2A	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		EXPIRES 09/30/2019 DWG NO. T-3.18	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		OF	

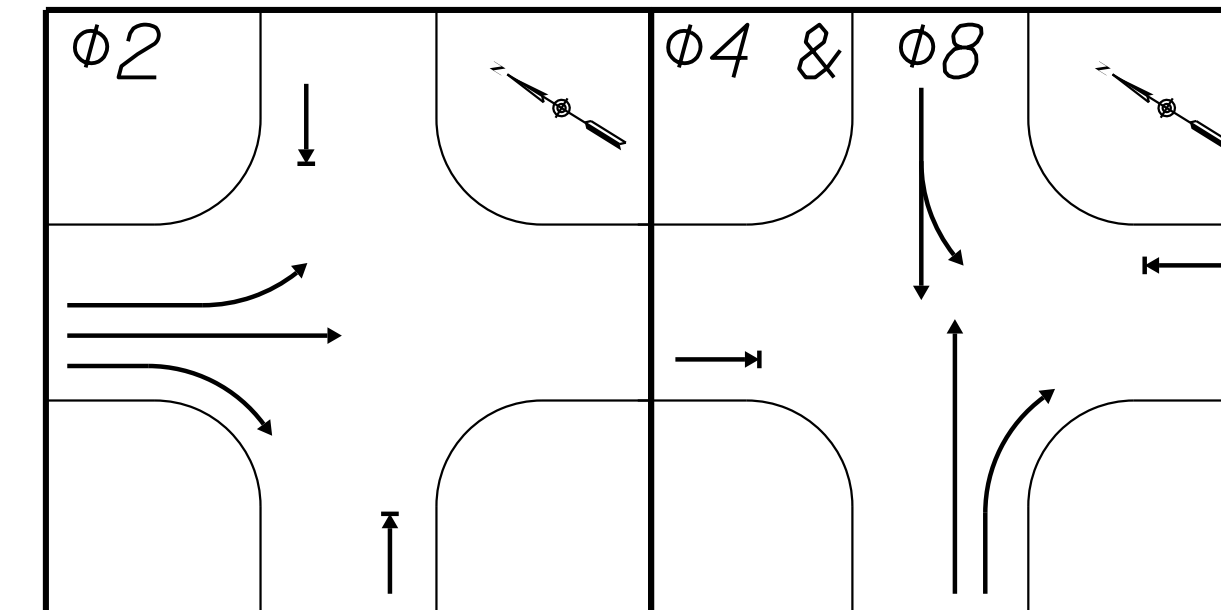
SURVEY NO. FINISHED PLANS. DATE. REVISIONS. LOCATION. DATE. FINISHED PLANS. SURVEY NO.



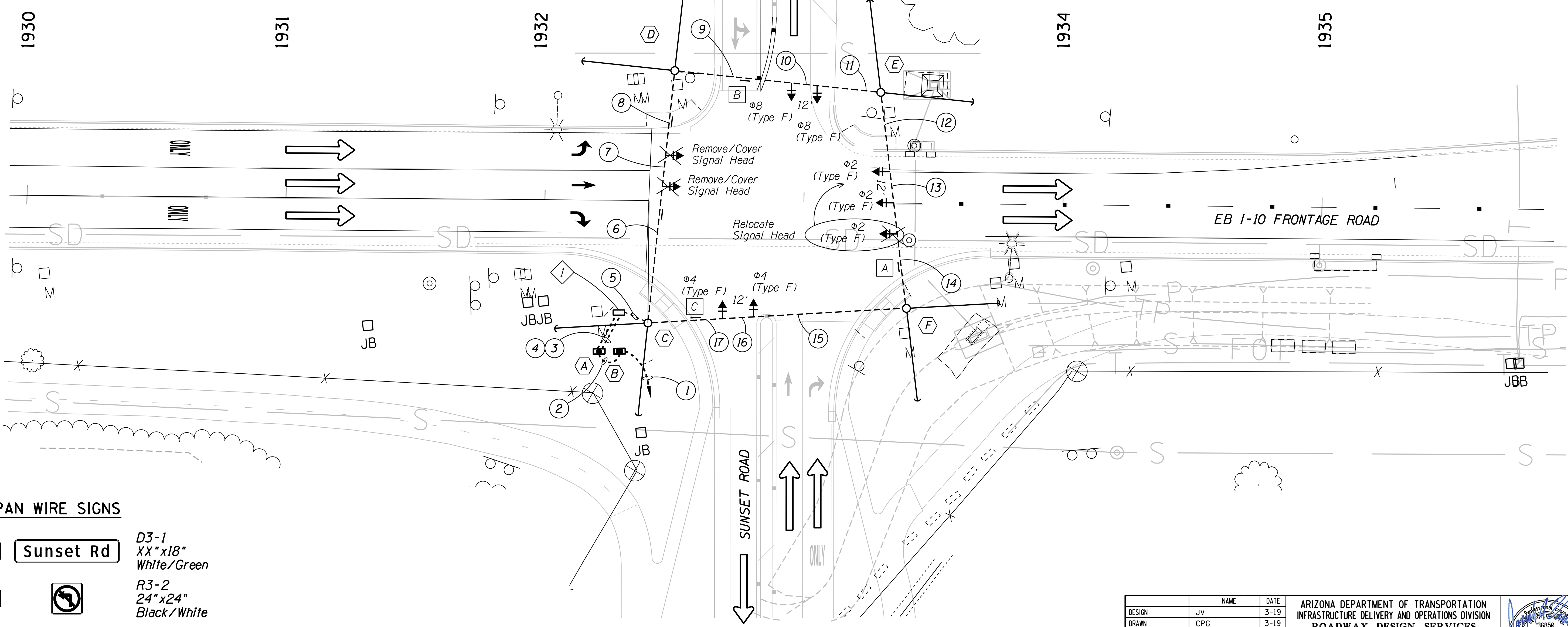
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	445	849	

010 PM 252

Phase Movements



LEGEND			
Symbol	Description	Symbol	Description
(X)	Conduit Run, See Conductor Schedule	◻	Control Cabinet, See Schedule
◇	Pull Box, See Schedule	○	Wood Pole w/ Guy Wire, See Schedule
⊗	Traffic Signal Equipment, See Pole and Equipment Schedule	→	Vehicle Traffic Signal Face (12")
□	No. 7 Pull Box, See Schedule	▲	Sign on Spring Stand
■	Meter Pedestal, See Schedule	■	Type II Barricades
⇨	Direction of Travel	—	Type III Barricades



SPAN WIRE SIGNS

- A **Sunset Rd** D3-1 XX"x18" White/Green
- B R3-2 24"x24" Black/White
- C R3-1 24"x24" Black/White

Mount signs on span wire signals with Sign Hanger Assembly, ADOT Std Det T.S. 15-4

Notes:

- All stations & offsets are to the EB I-10 Frontage Rd Cst & unless otherwise noted.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES EB I-10 FRONTAGE RD/SUNSET RD TEMPORARY SIGNAL PLAN PHASE 2B - PHASE 4	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 09/30/2019	DWG NO. T-3.19
TRACS NO.	H 8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	446	849	

010 PM 252

EB I-10 FRONTAGE RD / SUNSET RD PHASE 2A - PHASE 4 POLE AND EQUIPMENT SCHEDULE								
TRAFFIC SIGNAL CONTROLLER CABINET AND ELECTRICAL LOAD CENTER CABINET				REMARKS	LOCATION **			
CABINET	TYPE	CONTROLLER	AUXILIARY CONTROL					
	TBD	TBD	-	See Note 1	Sta 1932+23.1, 58.5' Rt			
	Meter Pedestal Cabinet	-	-	Electrical Service Address: xxxx EB I-10 Frontage Road	Sta 1932+29.4, 58.2' Rt			
POLE		MAST ARM		SIGNALS		P.P.B. SIGN	REMARKS	LOCATION
NUMBER	TYPE	SIG.	LUM.	MTG.	FACE			
	Class H-2 Wood Pole	-	-	2-Hanger and Balance Adjuster Assemblies	2-F (between  & )	-	-	Sta 1932+40.2, 47.2' Rt
	Class H-2 Wood Pole	-	-	2-Hanger and Balance Adjuster Assemblies	2-F (between  & )	-	-	Sta 1932+49.6, 50.3' Lt
	Class H-2 Wood Pole	-	-	2-Hanger and Balance Adjuster Assemblies	2-F (between  & )	-	-	Sta 1933+29.2, 42.7' Lt
	Class H-2 Wood Pole	-	-	2-Hanger and Balance Adjuster Assemblies	2-F (between  & )	-	-	Sta 1933+39.9, 40.6' Rt

**POLE SCHEDULE NOTES**

1. A raised PCC pad 48"x 4"x 48" shall be placed in front of traffic signal controller cabinet foundation. Pad shall be set 2" below the foundation elevation. Slope pad away from cabinet.
2. The stations and offsets for traffic signal wood poles as shown on plans and in the Pole/Equipment schedule are approximate. The final location of each pole shall be staked in the field by the Contractor and approved by the Engineer.

PULL BOX SCHEDULE			
No.	Type	LOCATION **	
		Station	Offset
	No. 7 Pull Box	1932+28.8	43.3' Rt

\*\* Stationing is based on EB I-10 Frontage Rd Cst & unless otherwise noted.

CONDUCTOR SCHEDULE - EB I-10 FRONTAGE RD / SUNSET RD PHASE 2A - PHASE 4 TEMPORARY TRAFFIC SIGNAL																			
	Conduit Run Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Conduit Size In Inches	2.5	2	3	3	3	■	■	■	■	■	■	■	■	■	■	■	■	
AWG	CIRCUIT PHASE	▲																	
* #14	Reserved																		
IMS A 19-1	4 Conductor Cable			8			8	4	3	2	2	1			1	2	2	3	4
	Reserved																		
	Reserved																		
* #8 THW	Common White (Stranded)			1	1		1	1	1	1	1			1	1	1	1	1	
* #8	Bare Bond			1	1		1	1	1	1	1	1	1	1	1	1	1	1	
* #4 THW	Service 120/240 Volt 3 Wire	●	3																

Note: Disconnect #6 signal heads and wiring for construction phases 2B through 4.

**CONDUCTOR SCHEDULE LEGEND:**

- \* IMSA Cable 19-1, #14, 4 Conductor - Color Coding per ADOT Inter-modal Transportation Division Traffic Signals and Lighting Standard Drawings.
- 5/8" Messenger Wire.
- Conduit By Contractor, Conductors by Tucson Electric Power.
- ▲ Rigid Metal Conduit.

DESIGN	JV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b> EB I-10 FRONTAGE RD/SUNSET RD TEMPORARY SIGNAL POLE SCHEDULE	
DRAWN	CPG	DATE	3-19		
CHECKED	JJK	DATE	3-19		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		EXPIRES 09/30/2019
TRACS NO.	H 8480 OIC		010-D(213)S		DWG NO. T-3.20

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	447	849	

010 PM 252

**ADOT GENERAL PAVEMENT MARKING NOTES:**

- The Contractor shall place the final surface course so that the striping is offset 1 foot clear of the construction joint, unless otherwise noted by the Engineer.
- The Contractor shall lay out and install pavement markings on the final surface course following points that have been set no more than 50 feet apart on the alignment of the yellow striping.
- The dimensions shown to the pavement striping are to the center of the striping or, in the case of double striping, to the center of the double yellow.
- At the completion of the final pavement surface each day, lane lines and edge lines shall be striped with one application of standard reflectorized traffic paint at the locations of the temporary or permanent striping. The paint shall have a minimum thickness of 15 mil wet. All painted striping shall be at least 4 inches wide. However, each painted solid white lane line, and solid white gore line shall be at least 12 inches wide. See Traffic Control Plans for temporary striping during construction phases.
- Except for the lane lines on new I-10 PCCP pavement, the final striping shall be 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized striping placed over the existing striping, as directed by the Engineer. The lane lines on new I-10 PCCP pavement shall be white Type I contrast tape (Item 7050022). All other markings shall be applied at the same time.
- All final stop bars, pavement arrows, and "ONLY" legends shall be white 90 mil (0.090 inch) thick alkyd extruded thermoplastic reflectorized markings.
- All raised pavement markers shall have an abrasion resistant coating on the face of the prismatic reflectors. Raised pavement markers shall conform to the details of Std. Dwg. M-19. They shall be installed with approved bituminous adhesive.
- All 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. Type C and Type E pavement markers shall be installed so that the red face of each marker is facing away from approaching traffic.
- Where pavement markers are placed along solid striping, the nearest edge of each marker shall be offset 2 inches from the nearest edge of the striping.
- The Contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall not be less than 55° F for the placement of thermoplastic striping.
- The Contractor shall remove the curing compound and apply primer-sealer before installing the final striping on the new PCCP and bridge decks for a width of 10 inches per line of striping for each 6 inch line of striping or for a width of 16 inches per line for each 12 inch line of striping in accordance with the special provisions.
- When stripe obliteration is necessary, it shall be accomplished by approved methods. Painting over striping, removal of pavement, and overlaying pavement do not constitute stripe obliteration.
- The pavement marking drawings are schematic only and not to scale. The Contractor shall follow all dimensions and details when installing pavement markings.
- The Contractor shall delineate the ends of the guardrail in accordance with Std. Dwg. M-34. There shall be no measurement or payment for the guardrail end treatment delineation.

- The Contractor shall delineate the new concrete barrier walls - both on and of the new bridges on Ruthrauff Road - with BM-1 (white) barrier markers in accordance with Std. Dwgs. M-32 and M-33. The Contractor shall affix BM-1 (non-median side) barrier markers on the roadway side of each new barrier wall at 20 ft. spacing. There shall be no measurement or payment for the barrier markers as the cost is included in other contract bid items.
- The Contractor shall remove the existing pavement markers on WB and EB I-10 in conjunction with the construction operations. There shall be no measurement or payment for the removal of the existing pavement markings as the cost is included in other contract bid items.
- The Contractor shall comply with the signing notes regarding other requirements for the delineators, milepost markers, and off-mainline reference markers.
- The Engineer may modify the pavement marking plans.

**PC/COT GENERAL PAVEMENT MARKING NOTES:**

- 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, the Special Provisions and the approved plans. All pavement marking shall be installed in accordance with the PC/COT Pavement Marking Design Manual.
- The Striping Contractor shall contact the Pima County Pavement Marking Supervisor (520-724-2624) at least 3 working days in advance of any pavement marking layout being installed to schedule inspection and approval of pavement marking.
- 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 markings.
- The permanent pavement markings may be modified as directed and approved by the Traffic Engineer or by his designee.
- The posted speed for Ruthrauff Road is 45 MPH. The posted speed for Davis Avenue and Highway Drive is 30 MPH. The posted speed for Chester Way and Maryvale Avenue is 25 MPH. Sign placement shall be based on the posted speed limit.
- All lane dimensions are measured from the center of lane line, center of double lane line, or edge of pavement unless otherwise noted.
- 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.
- 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.
- Painted symbols and legends shall be applied at the same time as the painted striping, with the exception of bike lane symbols and words (such as stop, ahead, only, etc.).

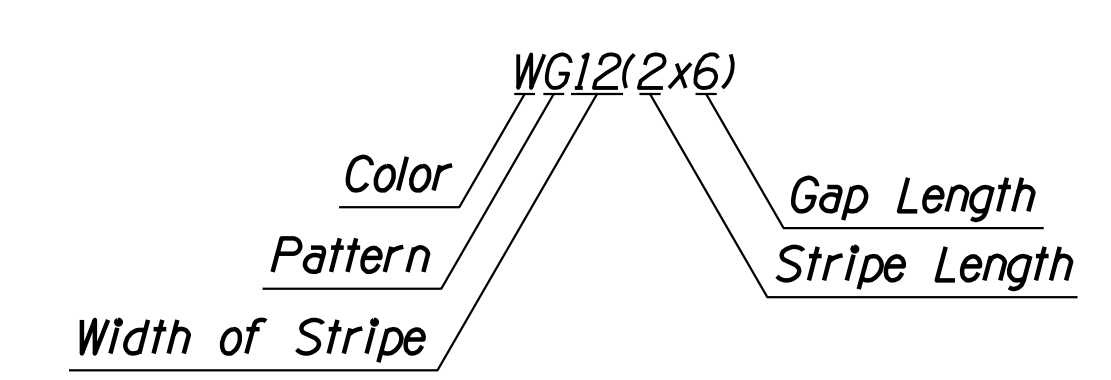
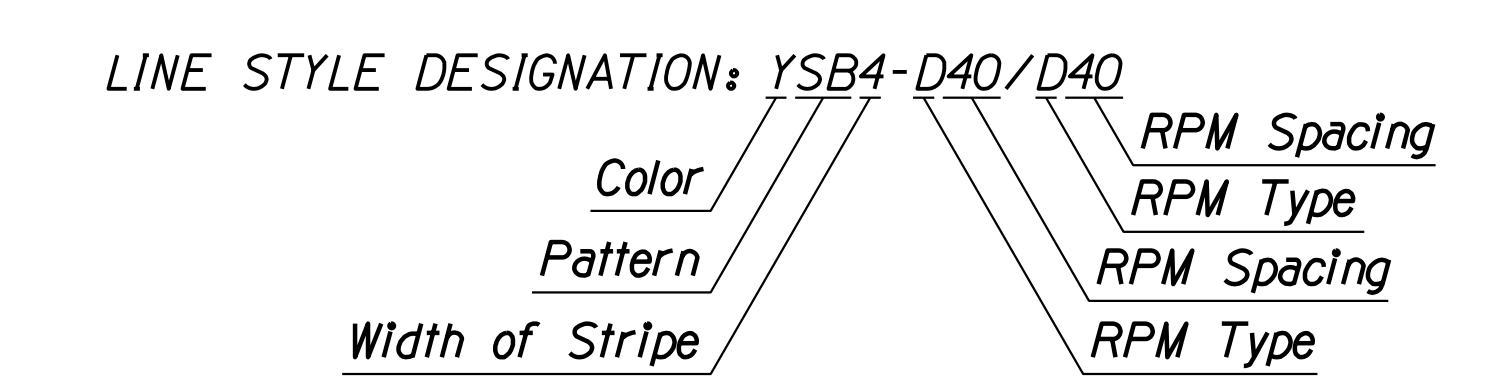
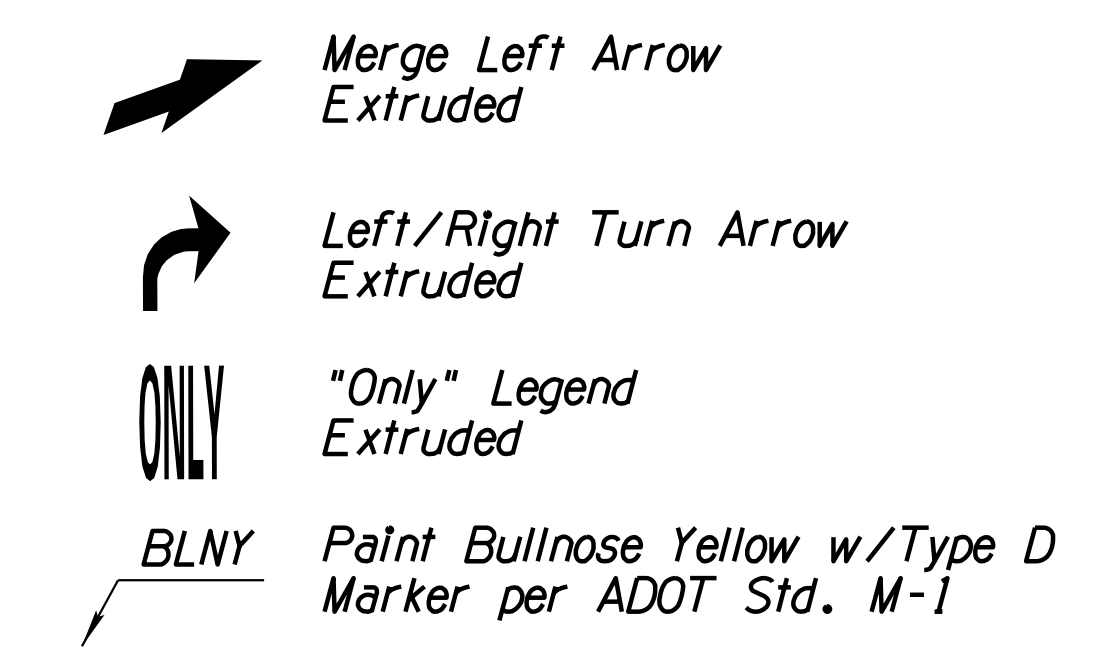
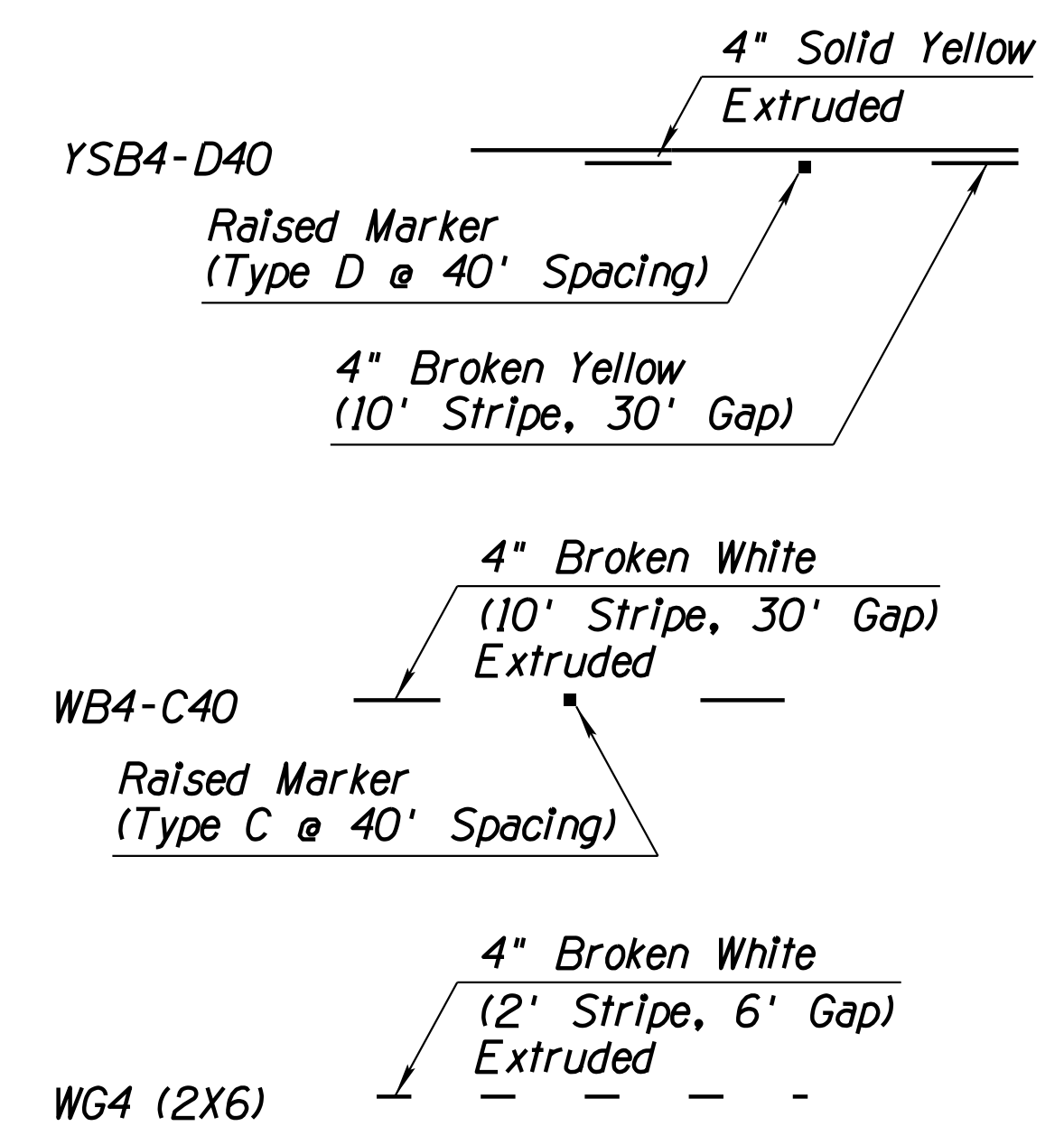
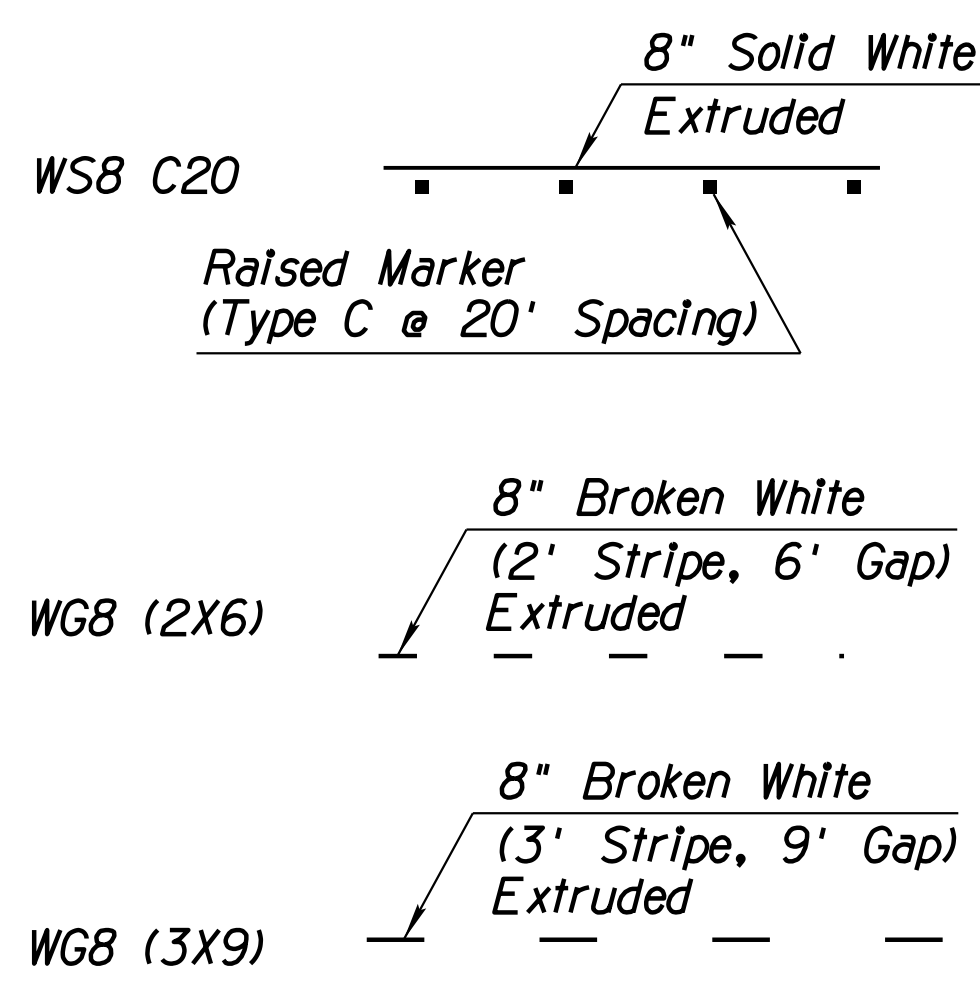
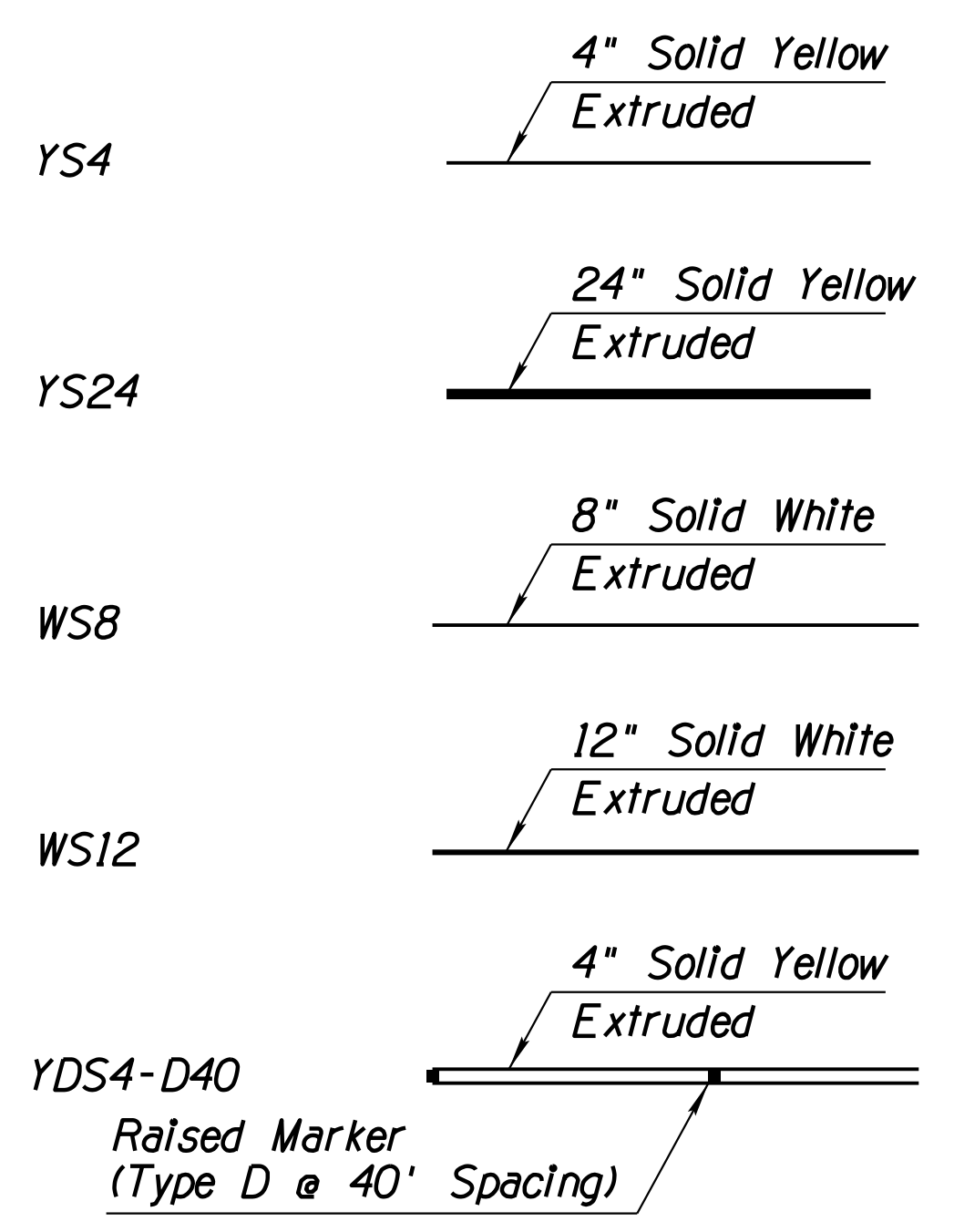
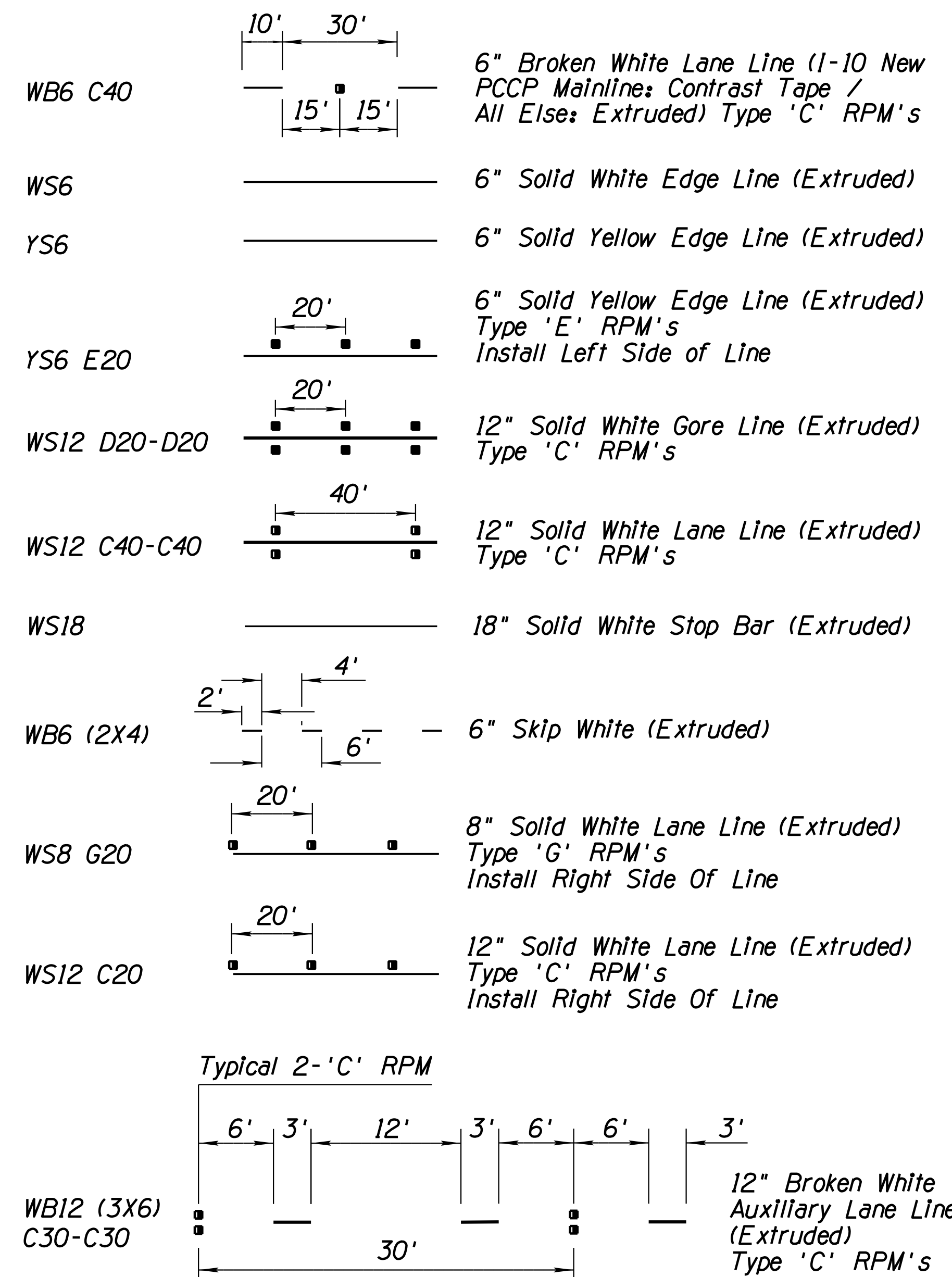
- The final longitudinal striping shall be 90 mil (0.090") thick ribbon extruded thermoplastic reflectorized striping placed over the painted layout striping with a single drop of 10 pounds per 100 square feet of AASHTO M 247-13 glass beads. The final longitudinal striping shall be placed within 21 to 30 calendar days of the final pavement surface being completed. All previously exempted longline markings shall be applied during the final longitudinal striping.
- All final transverse striping shall be hot-sprayed thermoplastic 90 mils (0.090") thick including symbols and legends with the exception of bike lane symbols which may be extruded thermoplastic or cold preformed thermoplastic.
- 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.
- 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.
- All raised pavement markers (RPMs) 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. Type C pavement markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.
- All raised pavement markers (RPMs) shall be installed per the current edition of the PC/COT Pavement Marking Manual.
- Blue raised pavement markers shall be placed adjacent to fire hydrants as shown on sheet 7-1 of the PC/COT Pavement Marking Manual.
- 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.
- Unless otherwise noted, all pavement markings shall be installed by the Contractor.
- Upon final inspection, a written acceptance or itemized punchlist of missing or unacceptable pavement markings shall be submitted to the Contractor and Pima County by the Traffic Engineer or designated representative.
- 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 one year warranties begin).
- The PC/COT Pavement Marking Manual is available online at: [http://webcms.pma.gov/userfiles/servers/server\\_6/file/government/transportation/roadway design/pavement marking design manual 2008.pdf](http://webcms.pma.gov/userfiles/servers/server_6/file/government/transportation/roadway%20design/pavement%20marking%20design%20manual%202008.pdf)

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

DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		PAVEMENT MARKINGS GENERAL NOTES	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S		
					DWG NO. T-4.01 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	448	849	
010 PM 252					

**MARKING LEGEND:**



See 2008 PC/COT Pavement Marking Design Manual for Further Descriptions

\* Pavement marking quantities reflect 4" equivalents.

\*\* Represents final layout paint striping placed on final pavement surface. See traffic control quantities for temporary paint striping and striping on interim pavement surfaces.

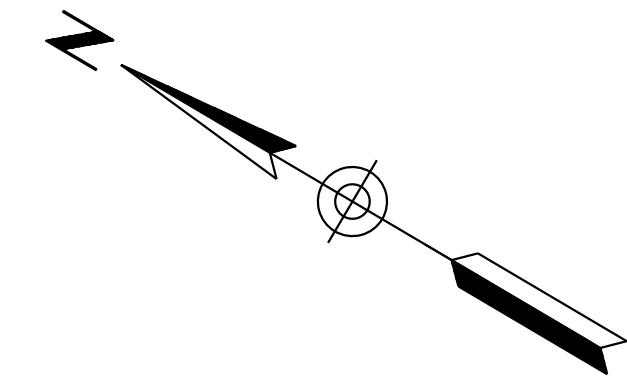
**APPROXIMATE PAVEMENT MARKING QUANTITIES**

DESCRIPTION	ITEM NO.	UNIT	QUANTITIES
Standard Reflectorized Traffic Paint	White **	7080001	L.F. * 167,000
	Yellow **	7080011	L.F. * 53,000
	Single Arrow (Std. Dwg. M-10)	7080121	Each 3
Extruded Thermoplastic Pavement Marking	Paint Bull Nose (Std. Dwg. M-1)	7080301	Each 8
	0.090" White	7040005	L.F. * 187,000
	0.090" Yellow	7040006	L.F. * 74,000
White 0.090" Alkyd Extruded Thermoplastic Pavement Legend or Symbol	Single Arrow (Std. Dwg. M-10)	7040074	Each 86
	Lane Reduction Arrow (Std. Dwg. M-10, Sheet 2)	7040074	Each 5
	"ONLY" legend (Std. Dwg. M-6)	7040073	Each 7
	Preformed Pavement Marking, Type I	White Contrast	7050022
Preformed Pavement Marking	"ONLY" legend (Std. Dwg. M-6)	7050026	Each 22
Raised Pavement Markers	Type C	7060013	Each 4700
	Type D	7060015	Each 170
	Type E	7060017	Each 1100
	Type G	7060018	Each 160
Primer-Sealer for PCCP Thermoplastic	Striping	7042031	L.F. 170,000
	Symbol/Legend	7042036	Each 26
Removal of Curing Compound from PCCP	Striping	7042051	L.F. 110,000
	Symbol/Legend	7042056	Each 18

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	KRH	3-19		
CHECKED	CPG	3-19		
			PAVEMENT MARKINGS GENERAL NOTES & LEGEND	
ROUTE	LOCATION	RUTHRAUFF ROAD T1		
TRACS NO. H 8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	449	849	

010 PM 252



5125

1910

5130

1915

5135

WB FRONTAGE RD

SUNSET RAMP A

WB I-10

EB I-10

SUNSET RAMP B

EB FRONTAGE RD

8'

12'

12'

15

Sta 1915+51  
Match Existing Striping

6" White  
10' Stripe, 30' Space  
Type C Raised Pavement  
Markers at 40' Spacing

6" Yellow

20

MATCH LINE STA 5137+00

1910

1915

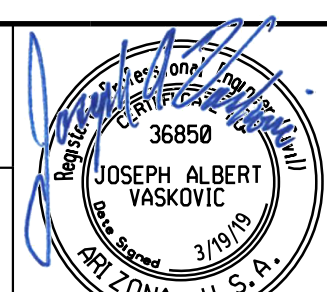
DESIGN	NAME	DATE
KRH		3-19
DRAWN	CPG	3-19
CHECKED	JAV	3-19

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



WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

PAVEMENT MARKINGS  
Sta 5123+00 to 5137+00



ROUTE	LOCATION
I-10	RUTHRAUFF ROAD TI

EXPIRES 09/30/2019  
DWG NO. T-4.03

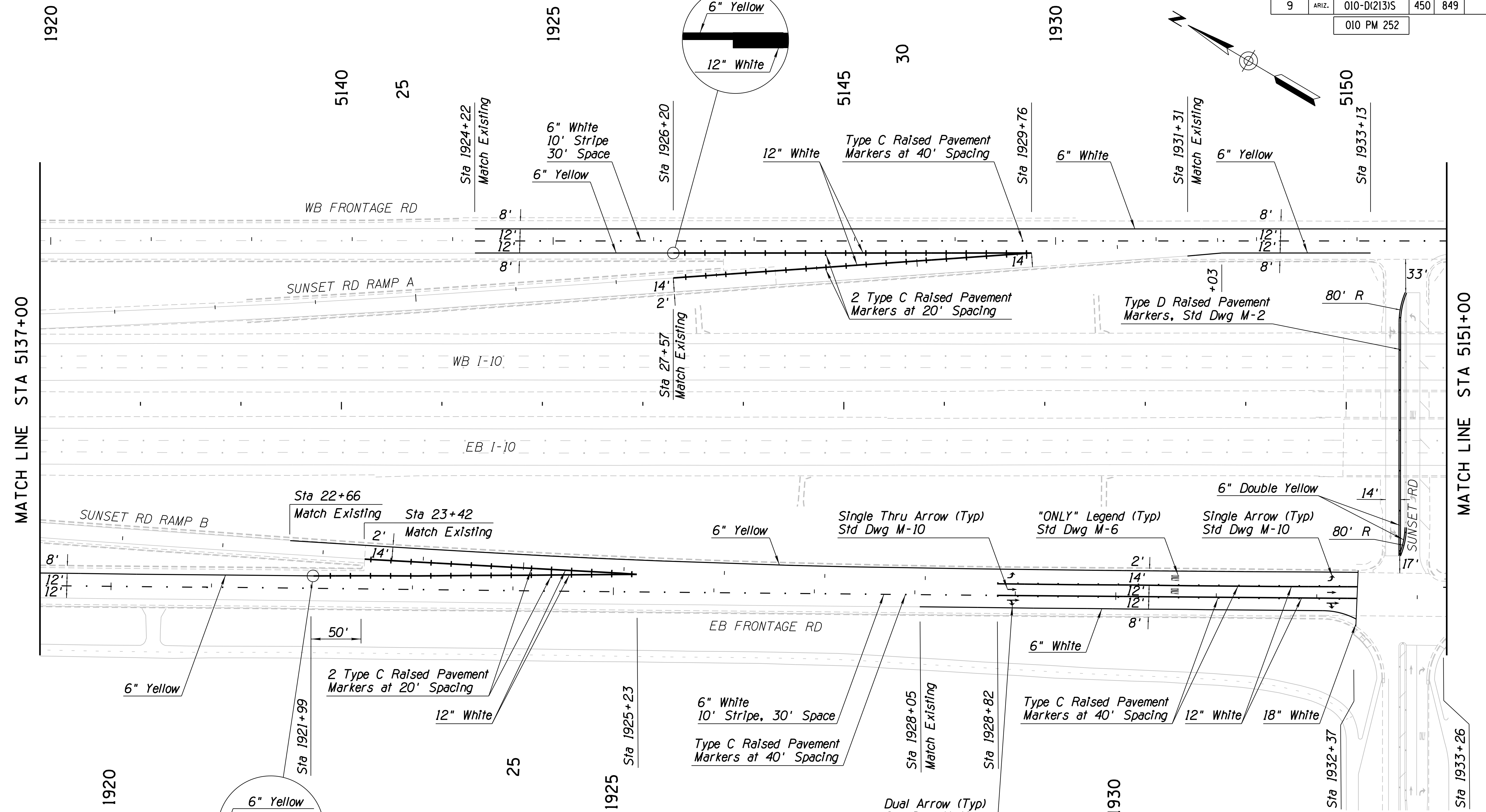
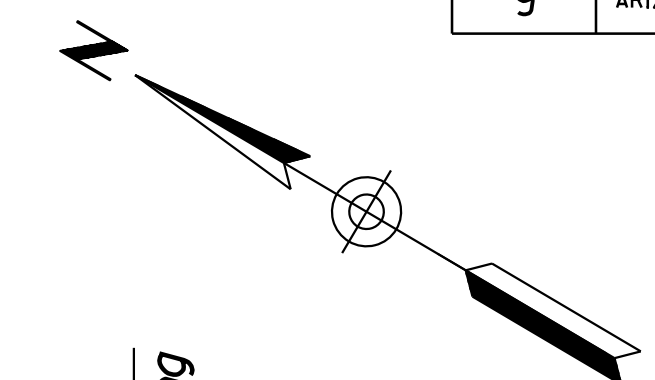
TRACS NO. H 8480 01C	010-D(213)S
----------------------	-------------

OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	450	849	

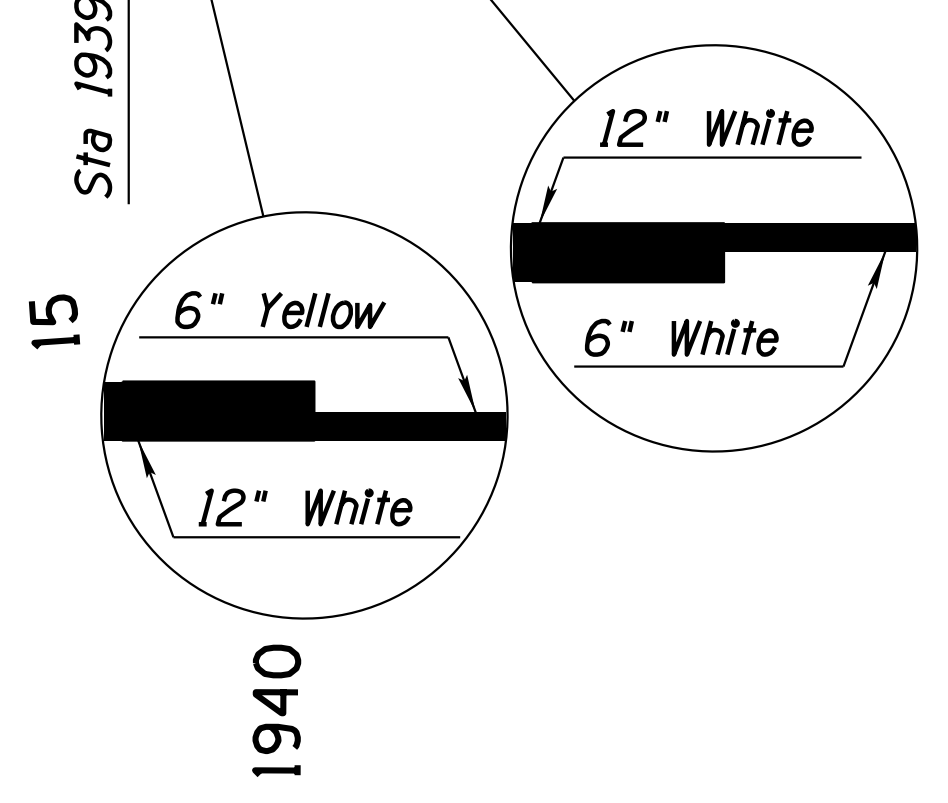
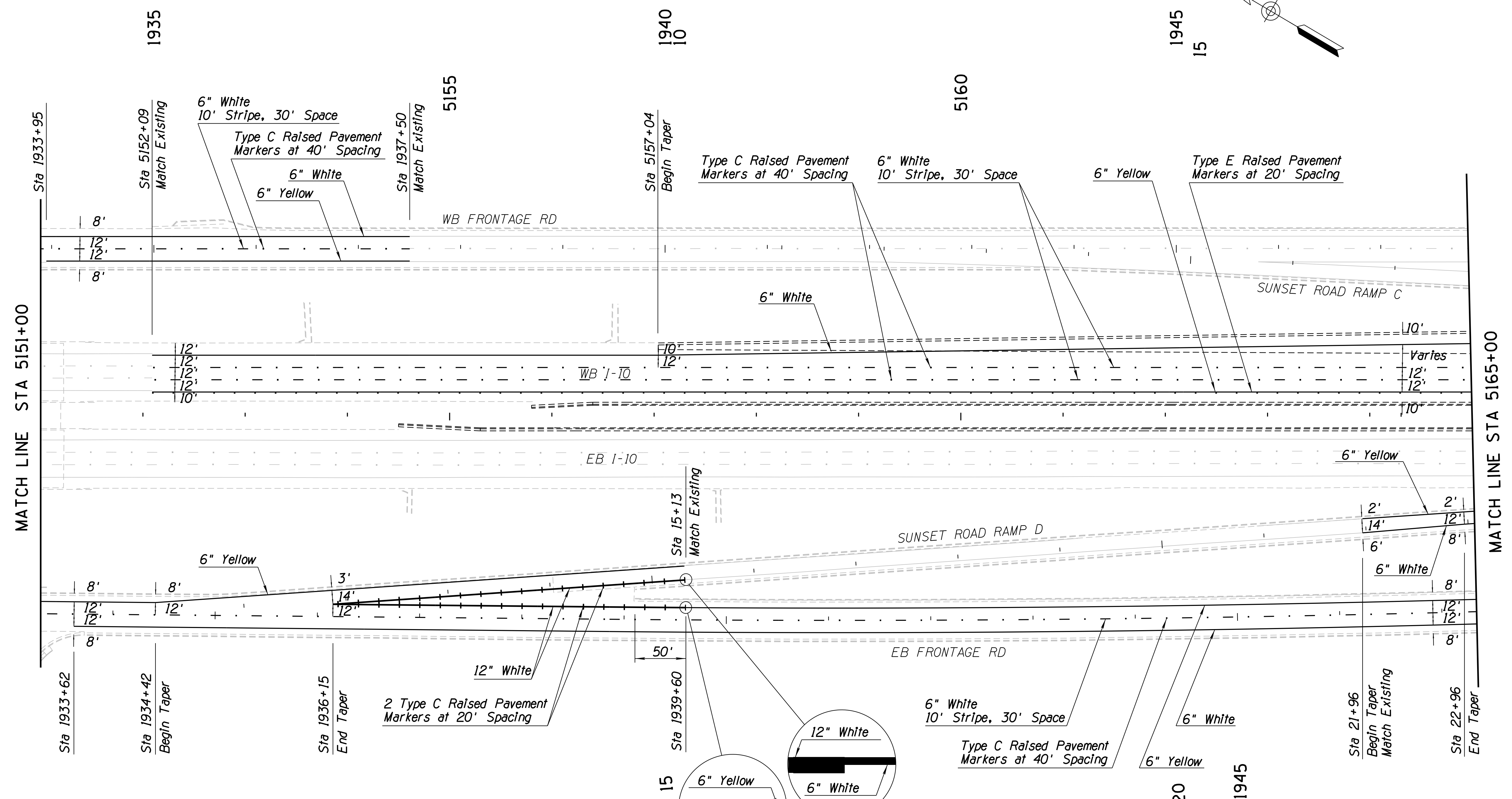
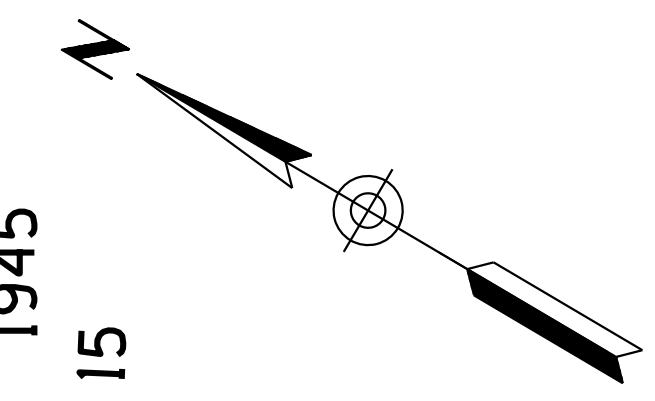
010 PM 252



DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	451	849	

010 PM 252

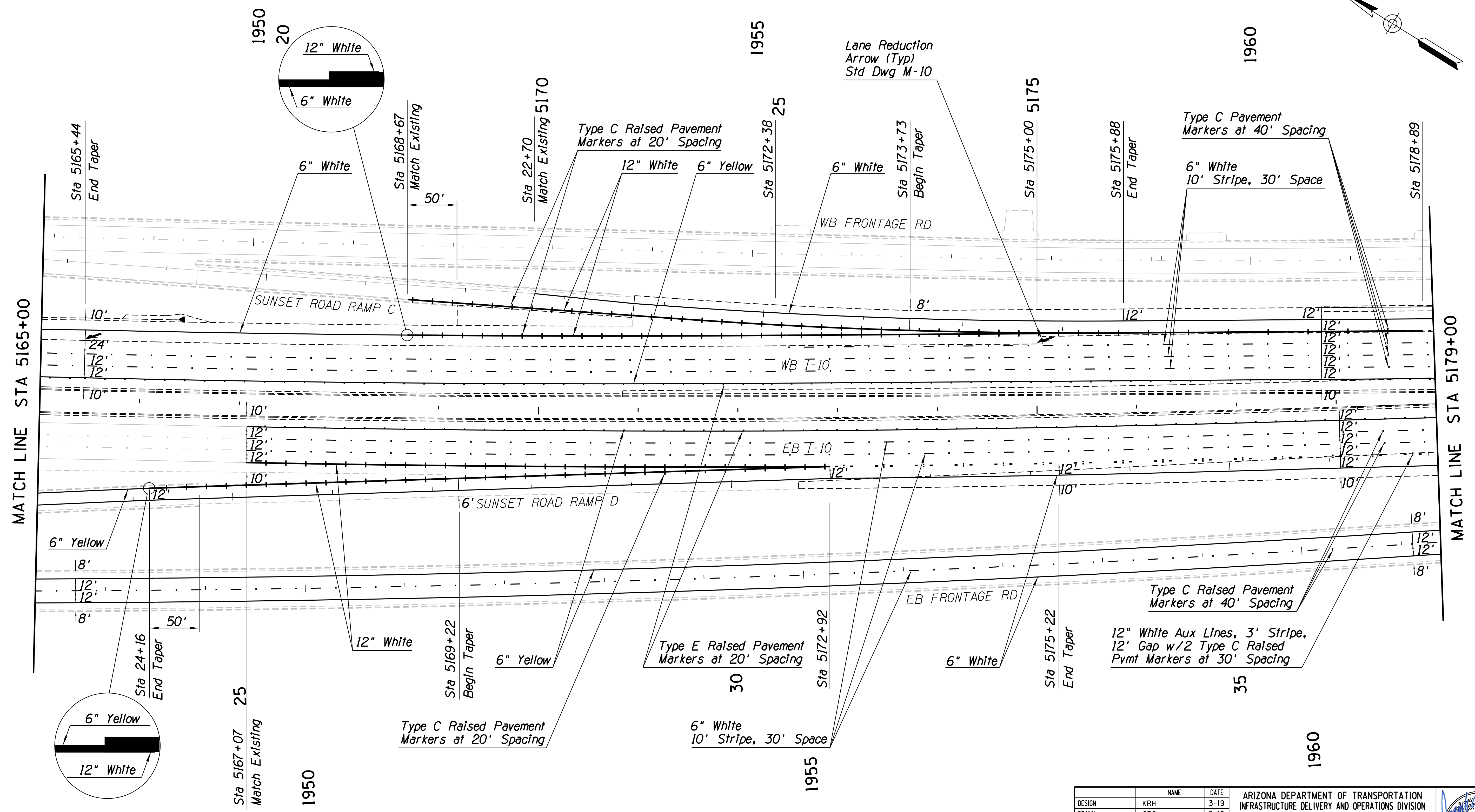
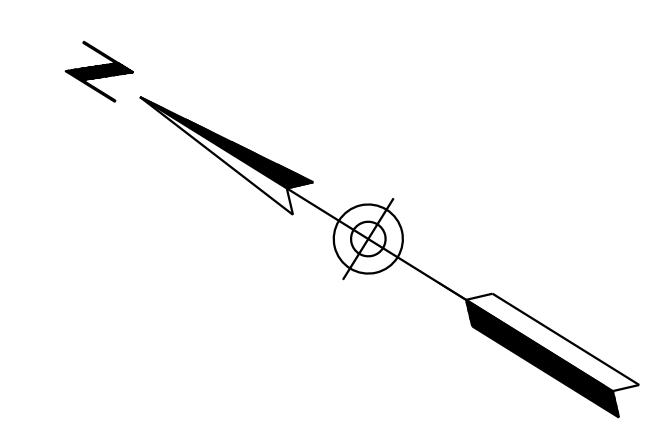


DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	KRH	3-19	
CHECKED	CPG	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			PAVEMENT MARKINGS Sta 5151+00 to 5165+00
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-4.05
TRACS NO. H 8480 OIC		010-D(213)S	OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	452	849	

010 PM 252



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

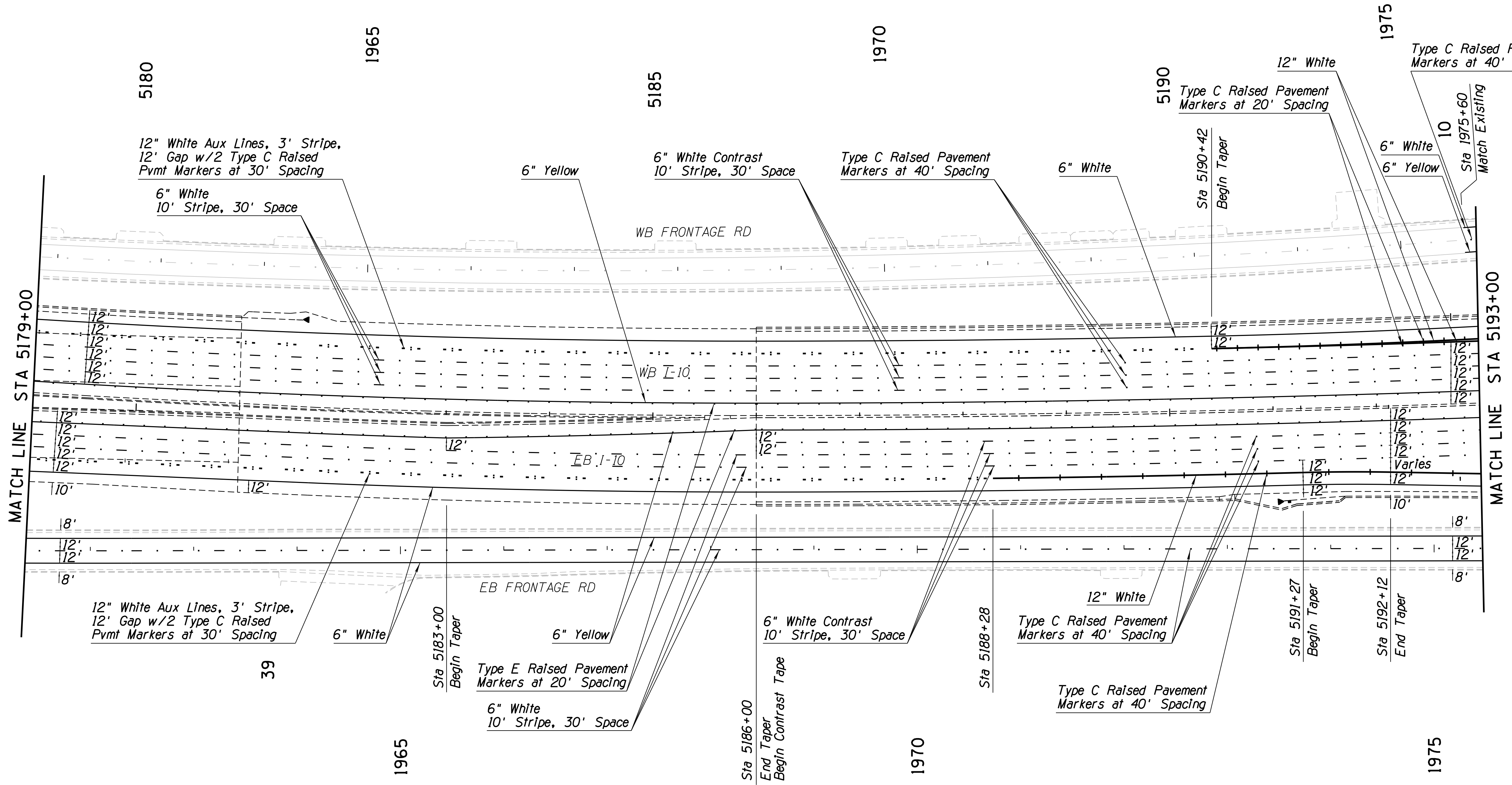
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	KRH	3-19		
CHECKED	CPG	3-19		
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			JOSEPH ALBERT VASKOVIC 36850 P.E. REG. NO. 3789 STATE OF ARIZONA U.S.A.	
ROUTE 1-10 LOCATION RUTHRAUFF ROAD TI				EXPIRES 09/30/2019 DWG NO. T-4.06
TRACS NO. H 8480 OIC		010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	453	849	

010 PM 252

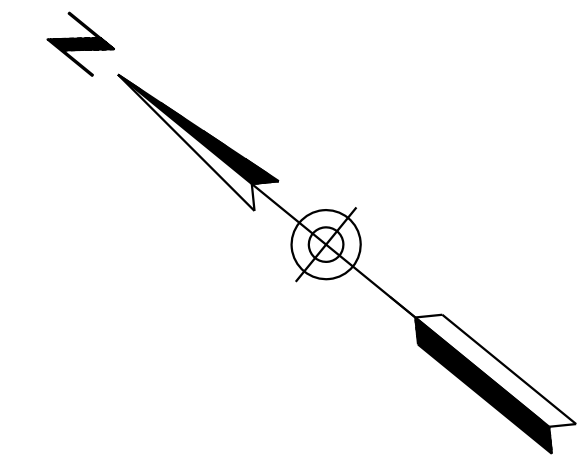
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE



DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>PAVEMENT MARKINGS</b> Sta 5179+00 to 5193+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-4.07 OF

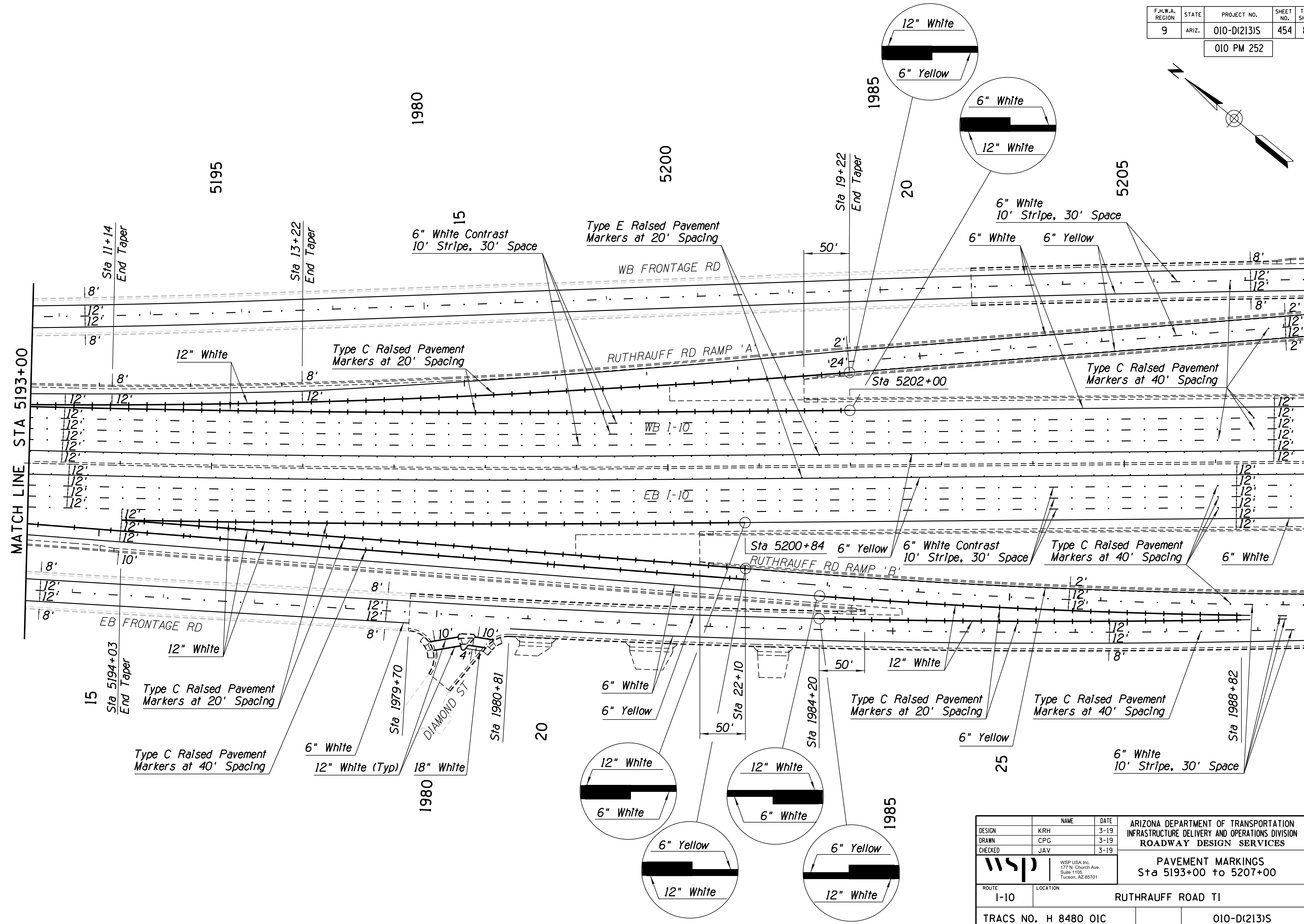
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	454	849	

010 PM 252



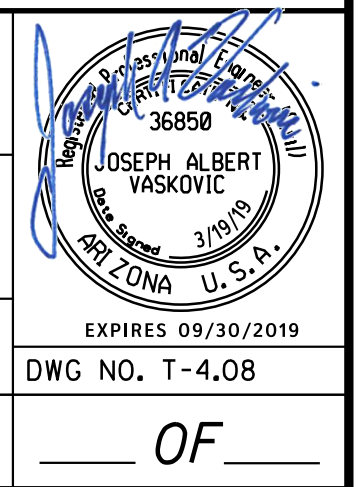
MATCH LINE STA 5193+00

MATCH LINE STA 5207+00



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

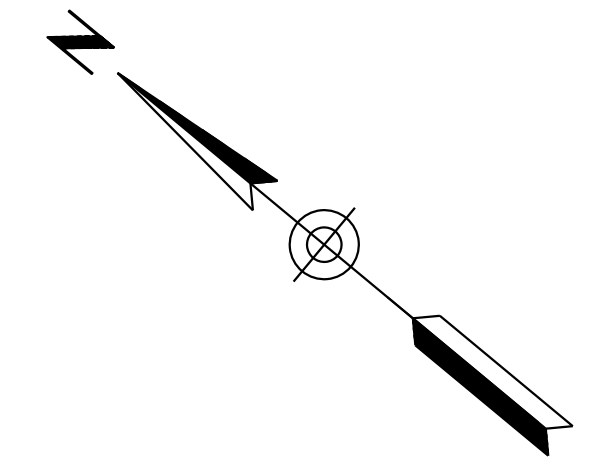
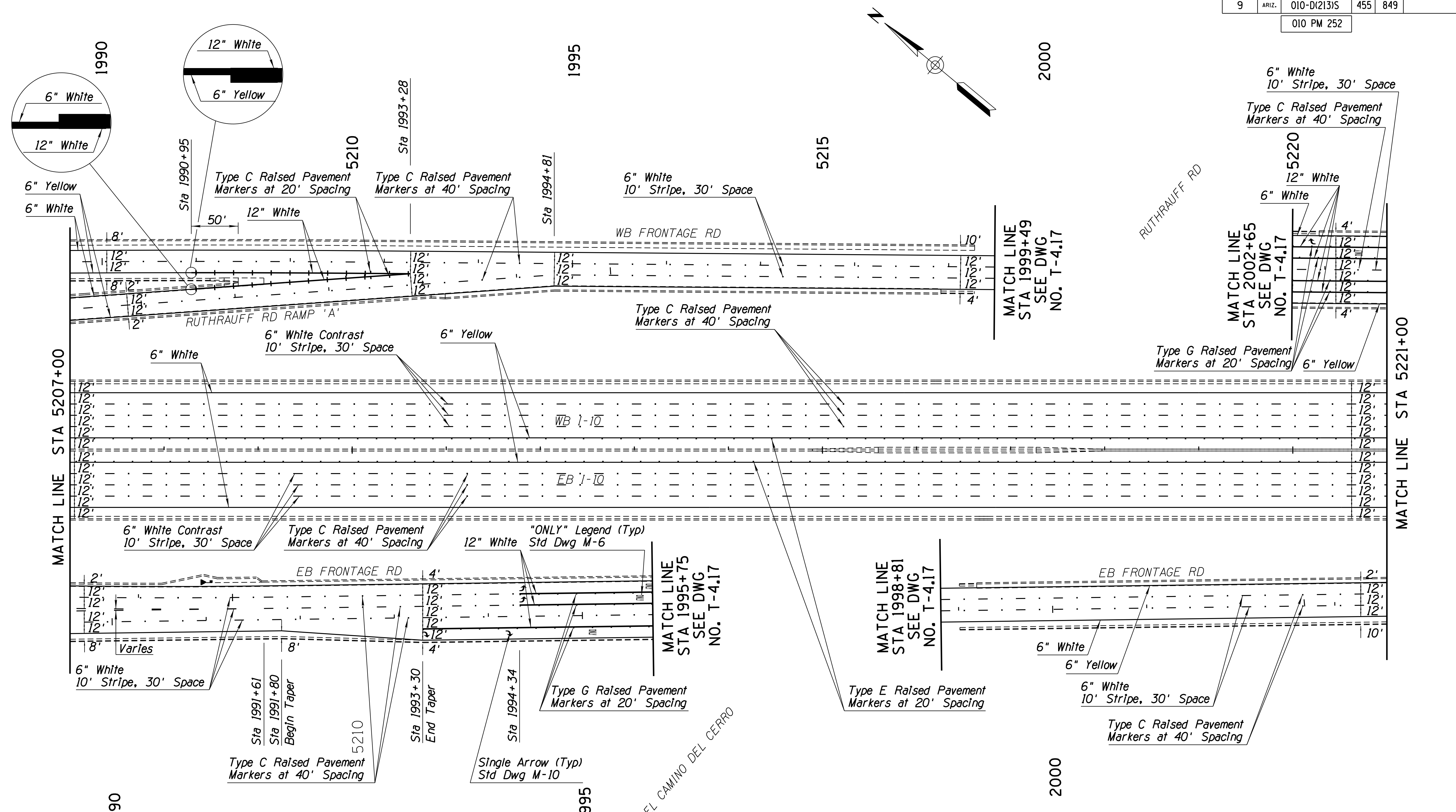
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	KRH	3-19	
CHECKED	JAV	3-19	
			PAVEMENT MARKINGS Sta 5193+00 to 5207+00
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-4.08	
1-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	455	849	

010 PM 252

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE



2000

MATCH LINE STA 5207+00

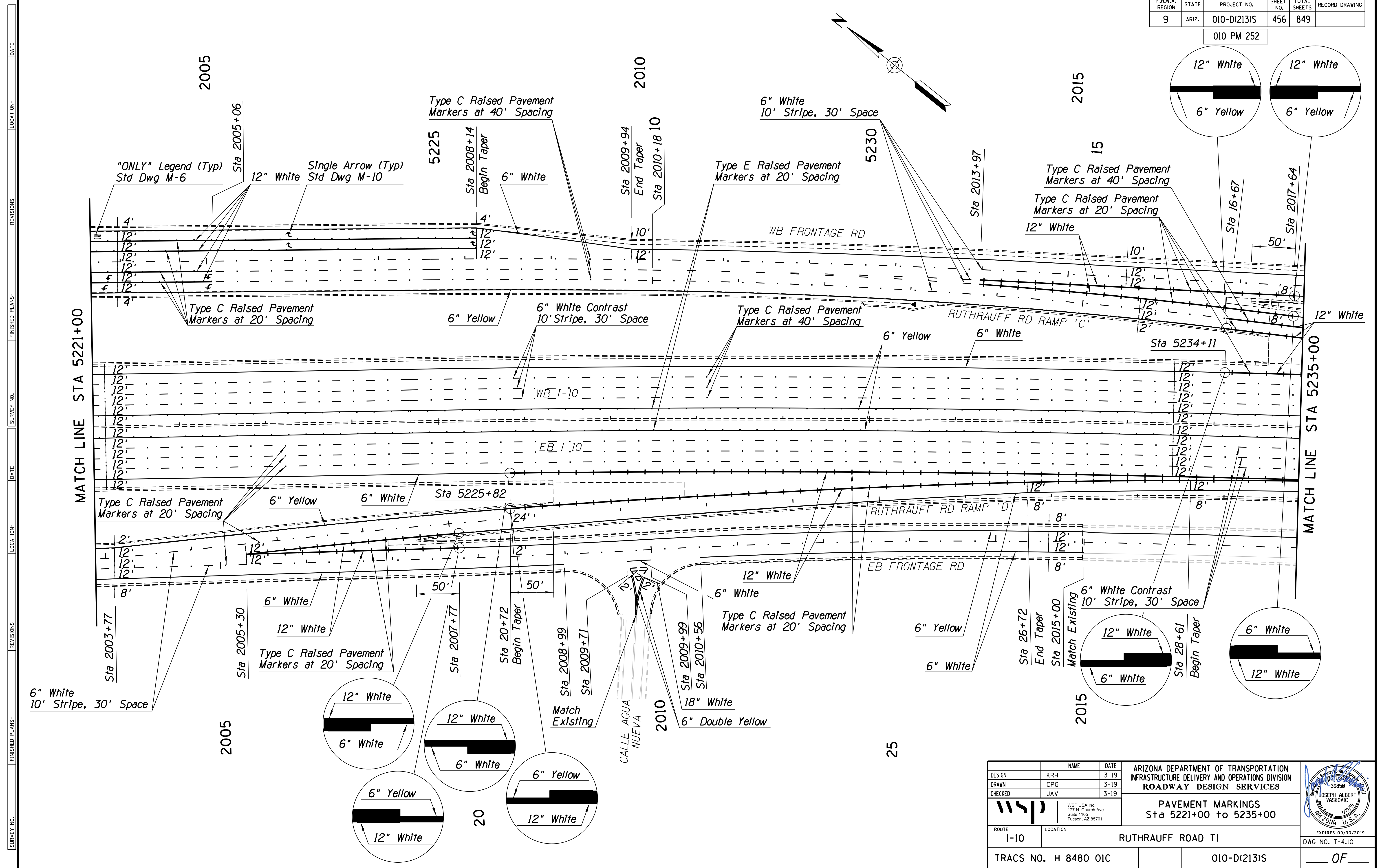
MATCH LINE STA 5221+00

2000

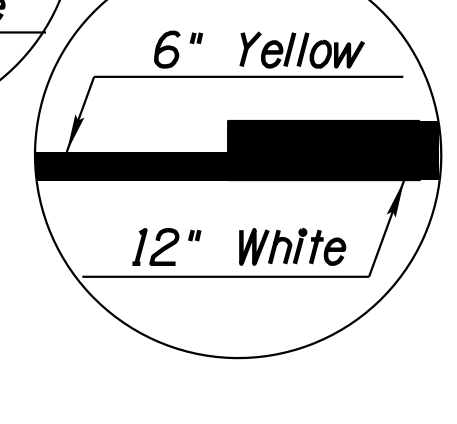
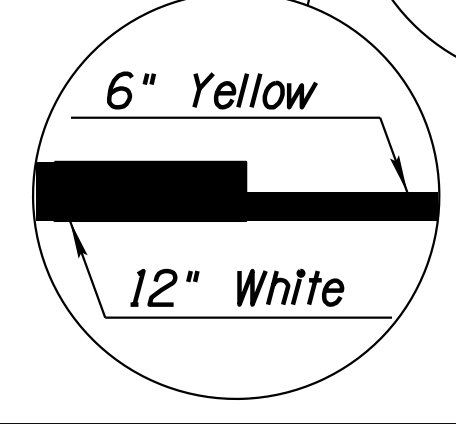
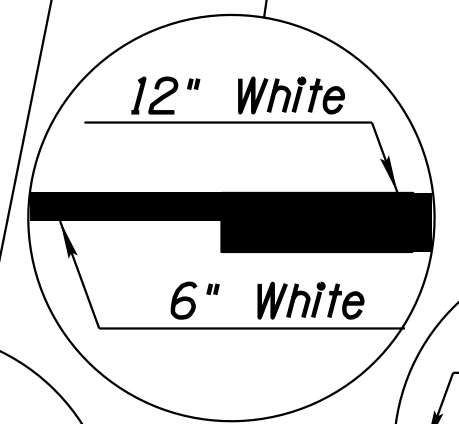
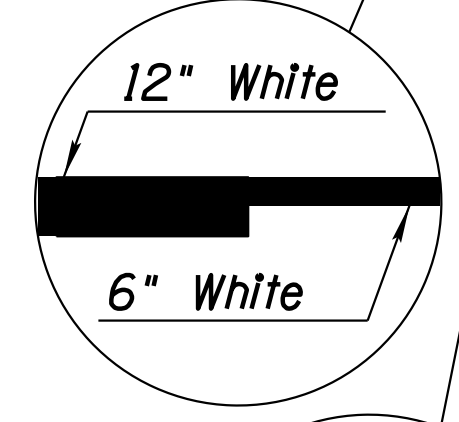
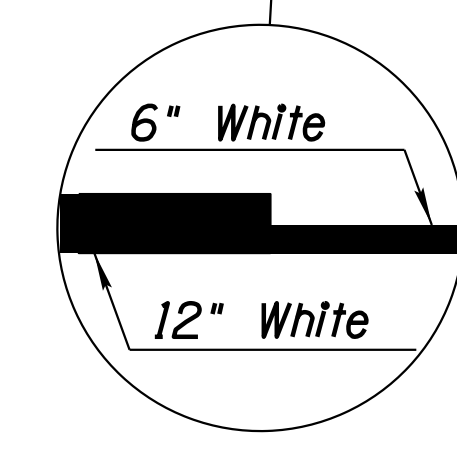
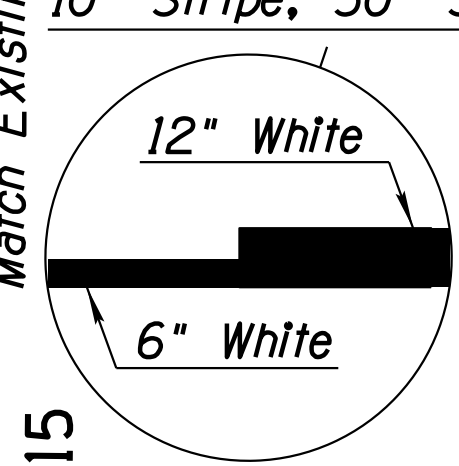
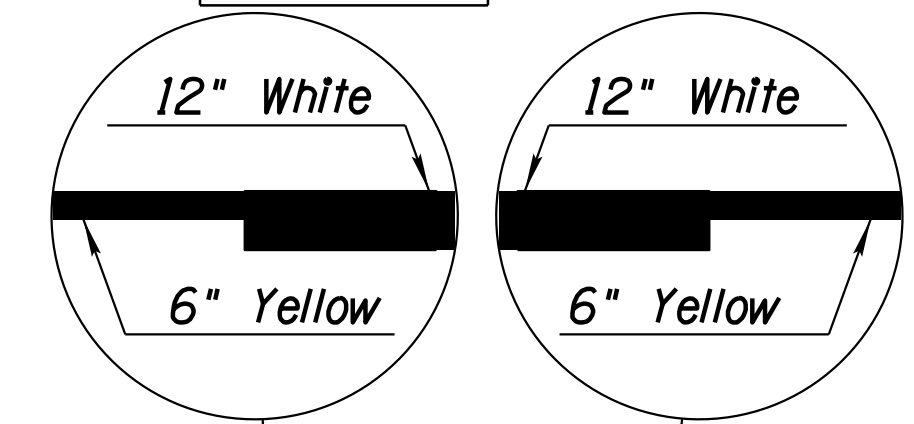
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CRH	3-19		
CHECKED	CPG	3-19		
			PAVEMENT MARKINGS Sta 5207+00 to 5221+00	
ROUTE	LOCATION	EXPIRES 09/30/2019 DWG NO. T-4.09		
I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 OIC		
		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	456	849	

010 PM 252



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



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	KRH	3-19	
CHECKED	JAV	3-19	

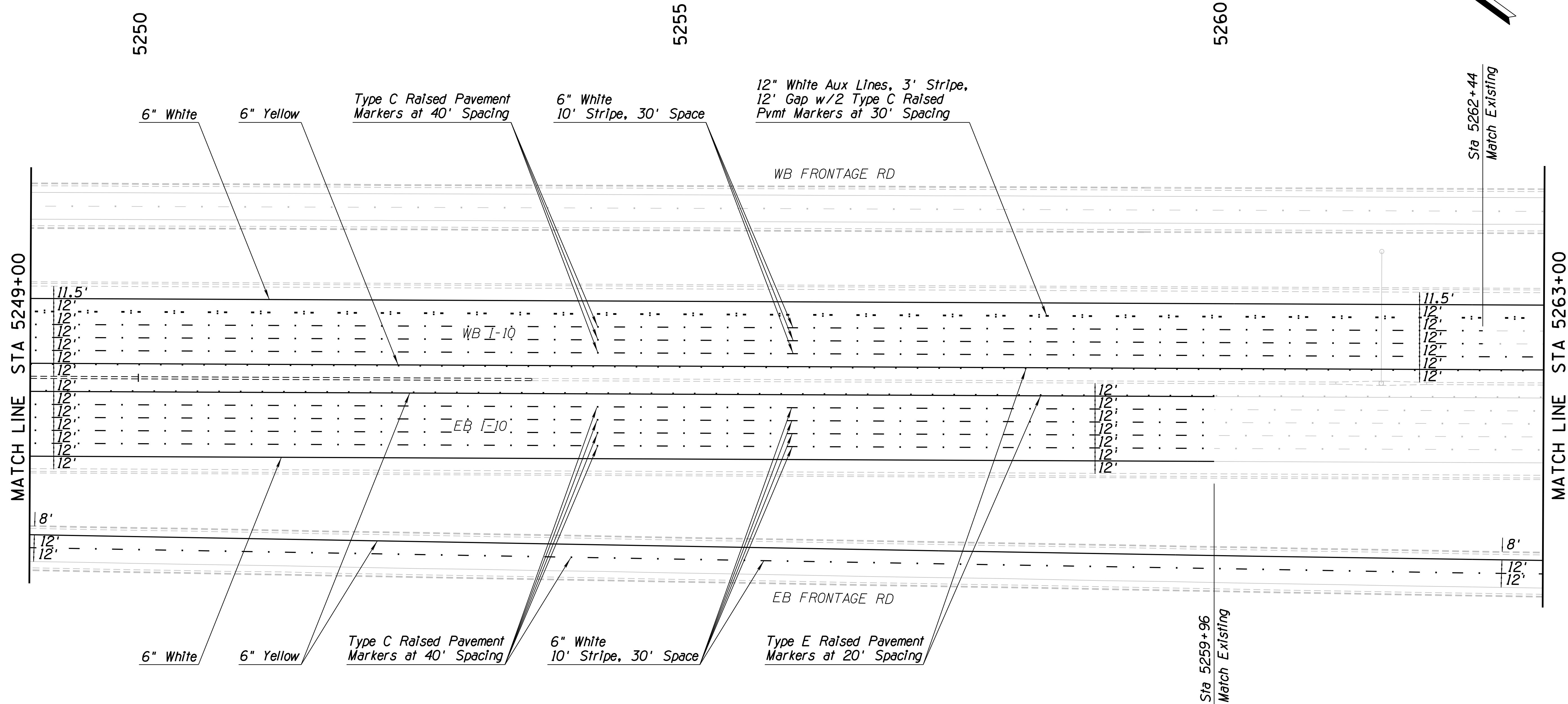
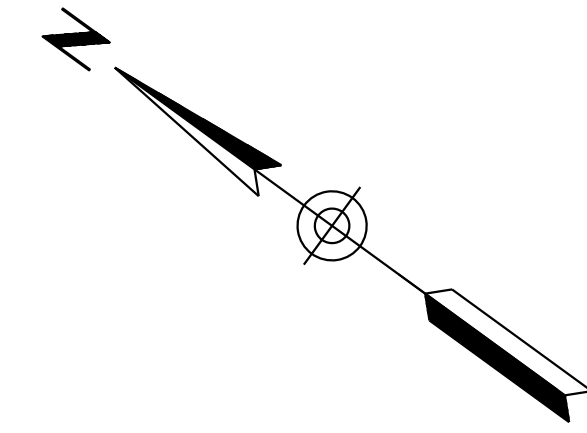
  

<b>WSP</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701	
ROUTE 1-10		LOCATION RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC		010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-4.10 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	458	849	

010 PM 252



SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

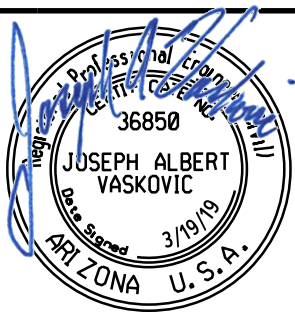
MATCH LINE STA 5249+00

MATCH LINE STA 5263+00

Sta 5259+96  
Match Existing

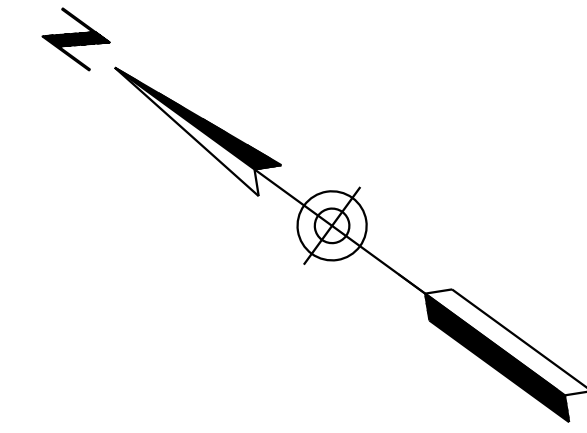
Sta 5262+44  
Match Existing

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	KRH	3-19	
CHECKED	CPG	3-19	
			PAVEMENT MARKINGS Sta 5249+00 to 5263+00
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701			
ROUTE	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO. H 8480 OIC	010-D(213)S		DWG NO. T-4.12 OF

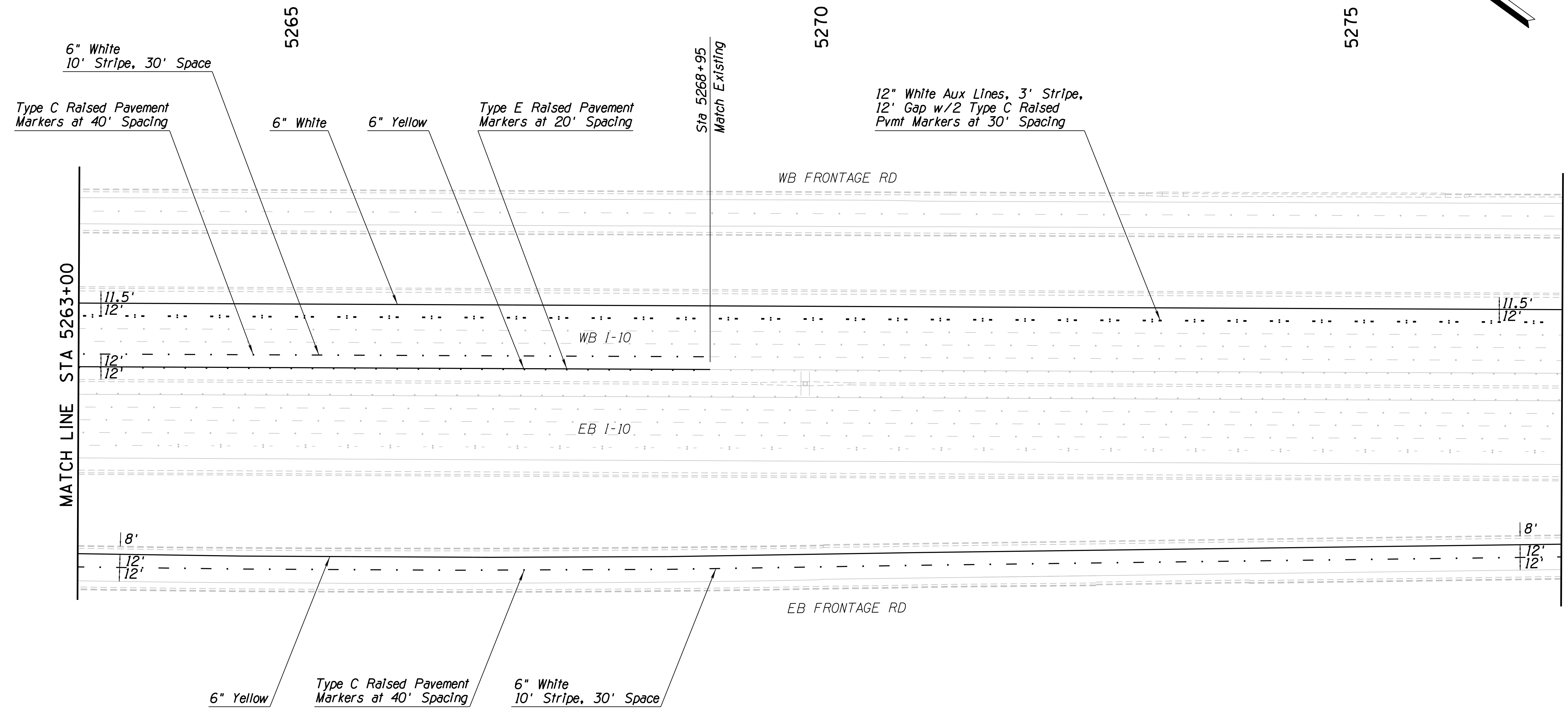


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	459	849	

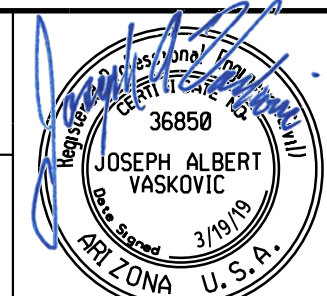
010 PM 252



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

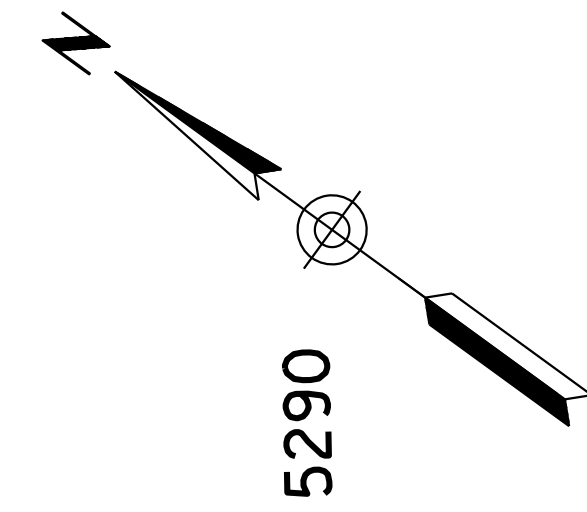


DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		PAVEMENT MARKINGS Sta 5263+00 to 5277+00
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S	DWG NO. T-4.13 OF

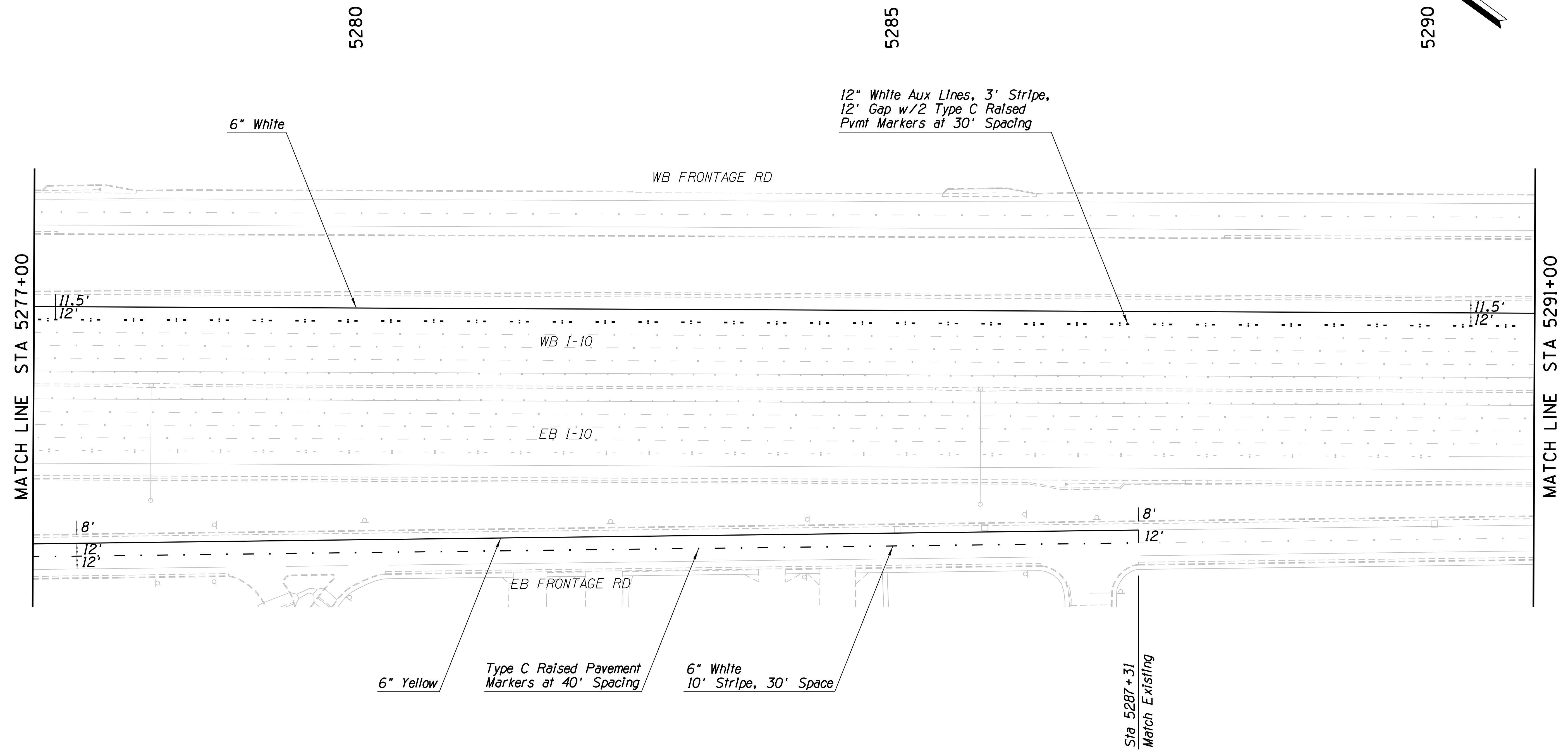


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	460	849	

010 PM 252



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

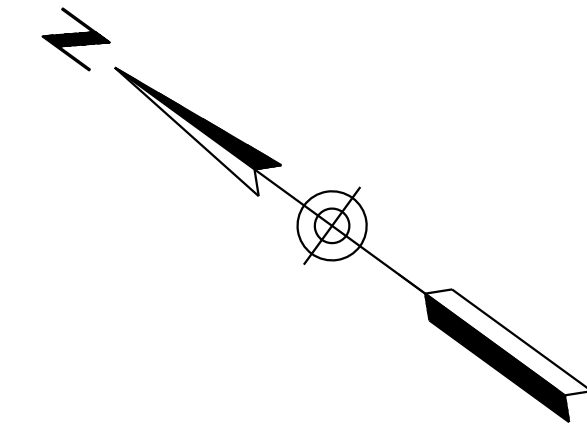


DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>PAVEMENT MARKINGS</b> Sta 5277+00 to 5291+00	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01C			010-D(213)S		OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	461	849	

010 PM 252



5295

6" White

Sta 5292+19  
Match Existing

WB FRONTAGE RD

MATCH LINE STA 5291+00

11.5'  
12'

WB I-10

EB I-10

EB FRONTAGE RD

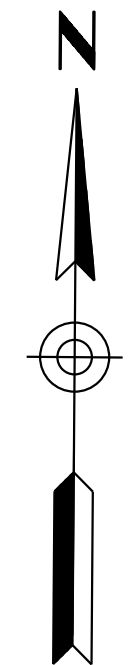
12" White Aux Lines, 3' Stripe,  
12' Gap w/2 Type C Raised  
Pvmt Markers at 30' Spacing

DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>PAVEMENT MARKINGS</b> Sta 5291+00 to 5305+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC			010-D(213)S	OF

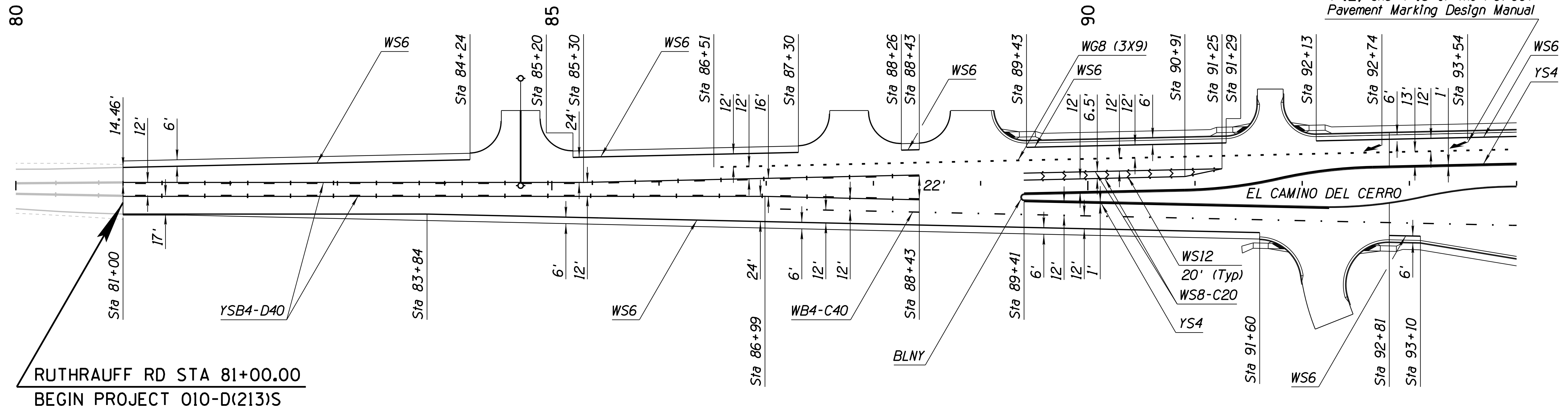
DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	462	849	

010 PM 252



Merge Arrow (Typ)  
Install per Sheet Nos. 2-9, 2-10,  
4-12, and 4-13 of the PC/COT  
Pavement Marking Design Manual



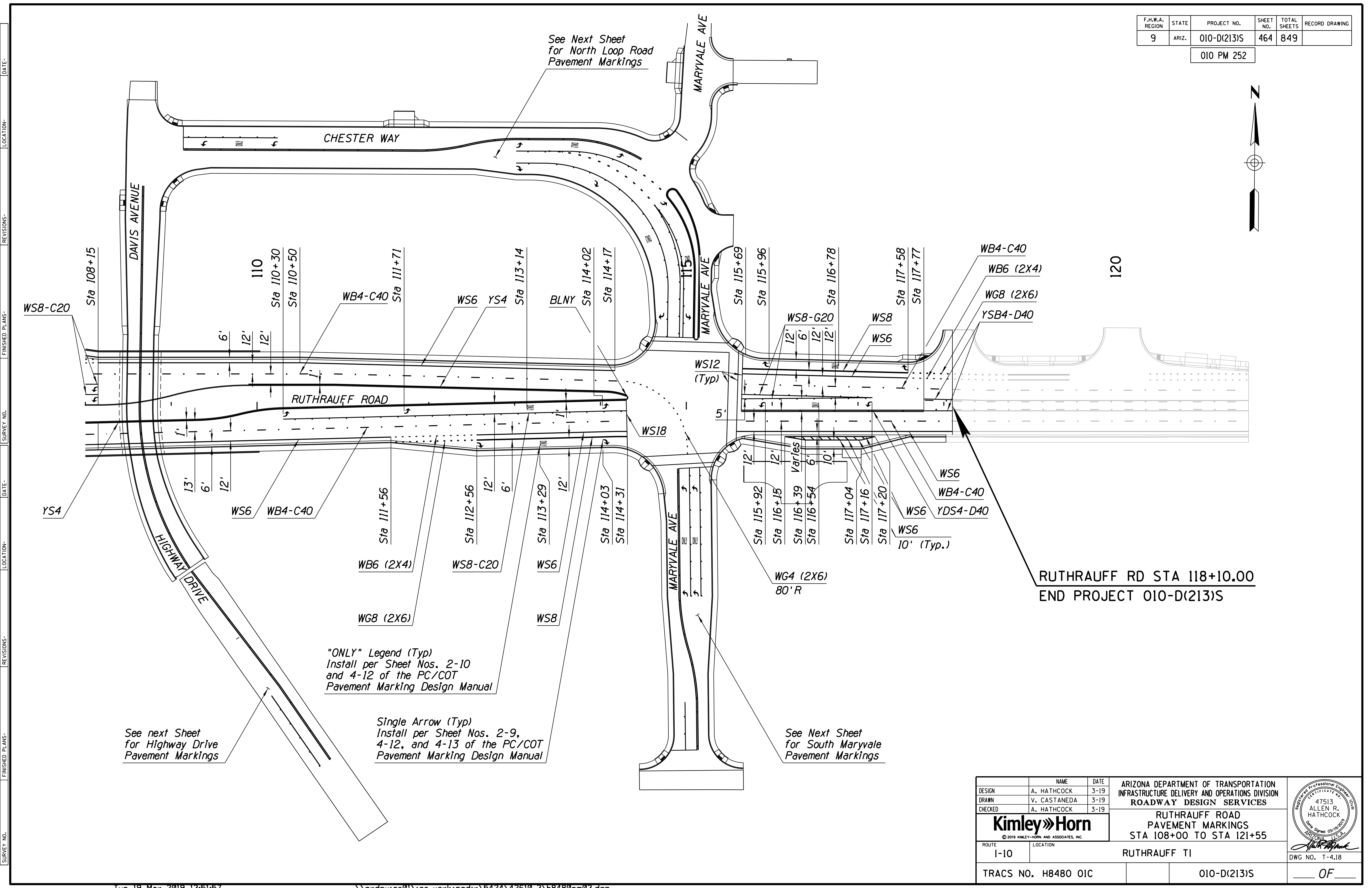
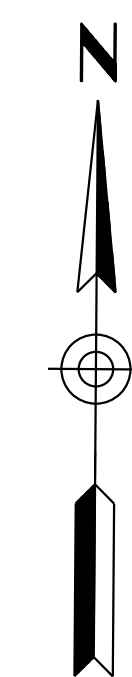
SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>PAVEMENT MARKINGS</b> <b>STA 80+00 TO STA 94+00</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
		ROUTE: 1-10      LOCATION: RUTHRAUFF TI			DWG NO. T-4.16
TRACS NO. H8480 OIC		010-D(213)S			



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	464	849	

010 PM 252



See Next Sheet for North Loop Road Pavement Markings

See next Sheet for Highway Drive Pavement Markings

"ONLY" Legend (Typ)  
Install per Sheet Nos. 2-10 and 4-12 of the PC/COT Pavement Marking Design Manual

Single Arrow (Typ)  
Install per Sheet Nos. 2-9, 4-12, and 4-13 of the PC/COT Pavement Marking Design Manual

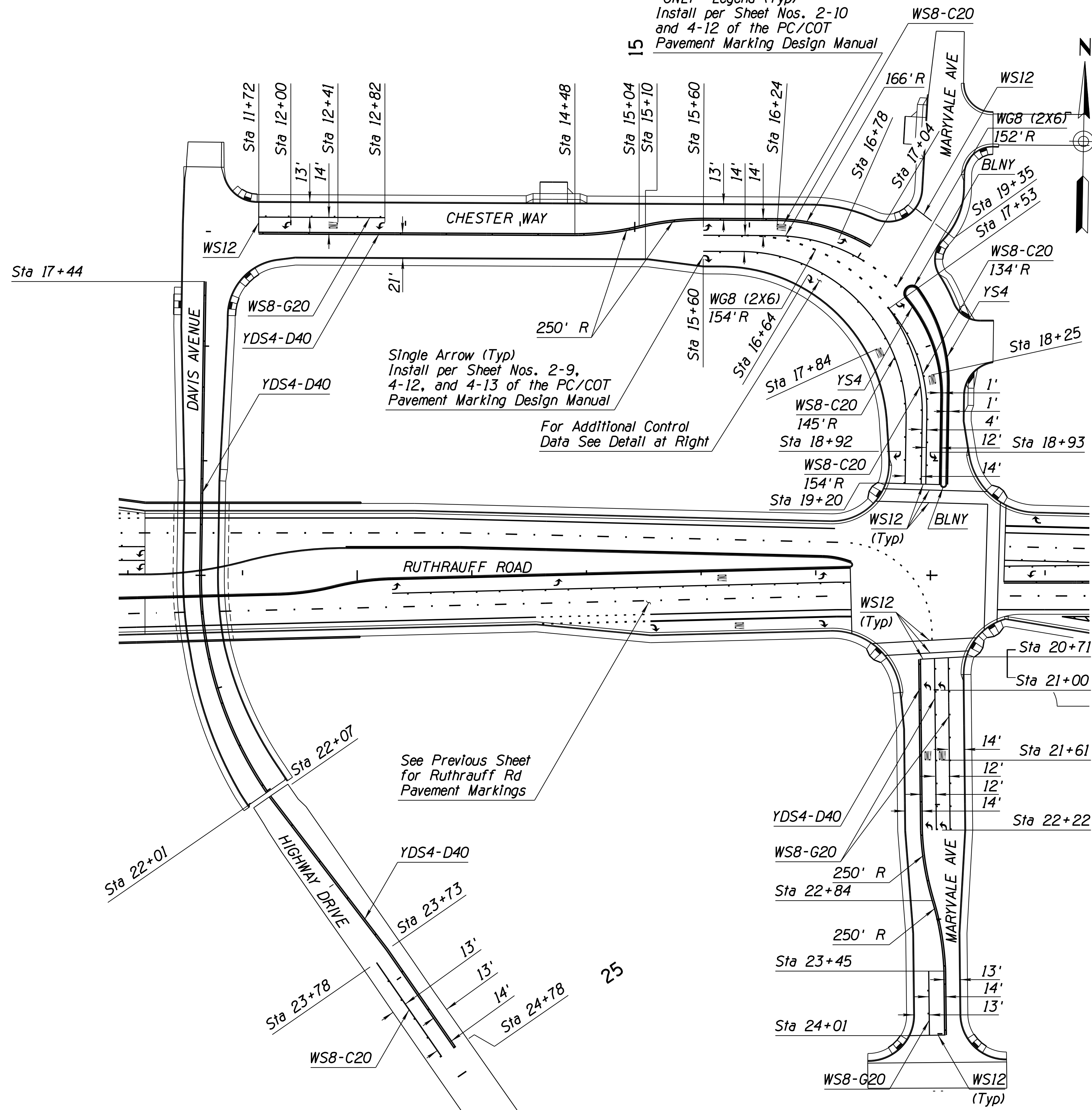
See Next Sheet for South Maryvale Pavement Markings

RUTHRAUFF RD STA 118+10.00  
END PROJECT 010-D(213)S

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD PAVEMENT MARKINGS STA 108+00 TO STA 121+55	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		DWG NO. T-4.18

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

"ONLY" Legend (Typ)  
 Install per Sheet Nos. 2-10  
 and 4-12 of the PC/COT  
 Pavement Marking Design Manual



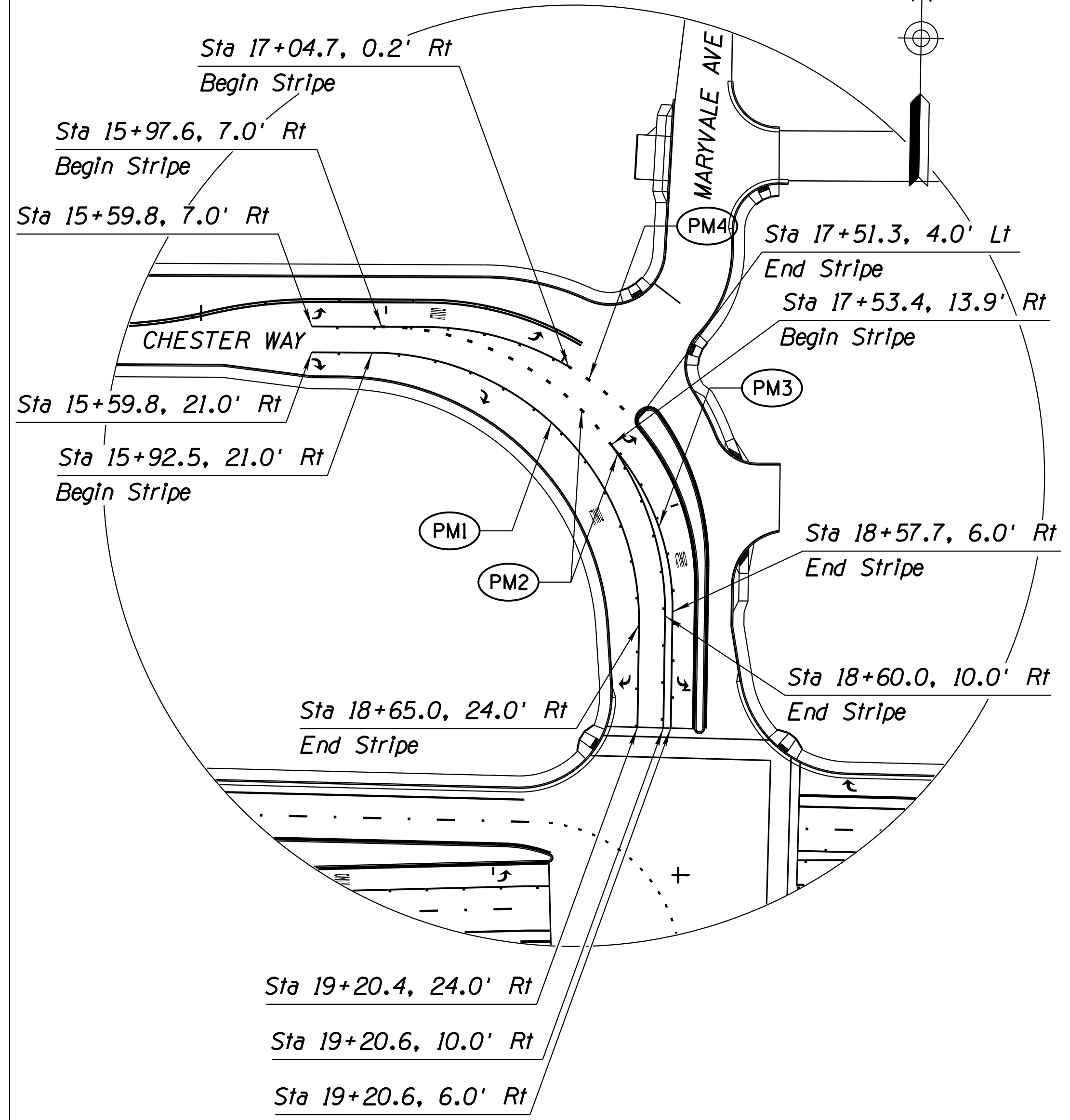
Single Arrow (Typ)  
 Install per Sheet Nos. 2-9,  
 4-12, and 4-13 of the PC/COT  
 Pavement Marking Design Manual

For Additional Control  
 Data See Detail at Right

See Previous Sheet  
 for Ruthrauff Rd  
 Pavement Markings

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	465	849	

010 PM 252



Curve	Radius	Delta	Length	Tangent
PM1	145'	90°35'09"	229.25'	146.49'
PM2	154'	90°35'09"	243.48'	155.58'
PM3	134'	41°35'12"	98.35'	50.88'
PM4	152'	49°00'23"	130.00'	69.28'

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		<b>MARYVALE AVE &amp; CHESTER WAY          PAVEMENT MARKINGS</b>		ROUTE: I-10 LOCATION: RUTHRAUFF TI DWG NO. T-4.19	
TRACS NO. H8480 OIC			010-D(213)S		
OF					

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	466	849	

010 PM 252


### ADOT GENERAL SIGNING NOTES:

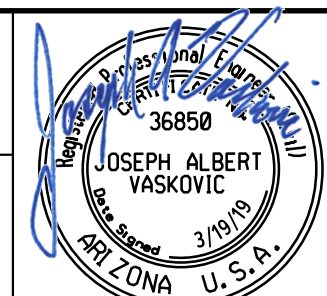
- All signs shall be in compliance with the Manual on Uniform Traffic Control Devices (MUTCD), ADOT Signing and Marking Standards, ADOT Traffic Engineering Manual of Approved Signs, these plans, and the Special Provisions.
- Signing may be modified as directed by the Engineer. The Engineer may shift the location of a sign to a more favorable location in accordance with the Standard Drawings.
- Post lengths indicated on sign summary sheets are approximate. The Contractor shall verify actual post lengths.
- All faces of bolts used for mounting signs shall be painted the same color as the sign panel.
- All station locations are approximate. The Contractor shall verify actual sign locations with the Engineer prior to the installation of all signs.
- Normal mounting height for the lowest sign on the post shall be 7 feet from the nearest shoulder edge or top of curb elevation.
- Normal offset for all edge of signs, except guide signs, shall be 12 feet from the near edge of the sign to the edge of the pavement, unless otherwise noted on the Signing Summary Sheet or the Plans. The offsets for guide signs shall be in accordance with the dimensions shown on Standard Drawing S-3 or as noted on the Signing Summary Sheet.
- For square tube posts slip base details, see Standard Drawing S-1 sheet 3 of 4. Additional devices are approved for use as listed on the Approved Products List (APL).
- For W and S shaped posts, the foundation elevations shall be determined by the Contractor after final grading or from plan cross-sections prior to final grading. The Contractor shall submit these elevations along with calculated post lengths to the Engineer for verification prior to ordering the posts. Offset reference elevations shall be established in the field prior to constructing the foundations.
- Foundation requirements for W and S shaped posts shall conform to the design, depth and diameter in accordance with Standard Drawings S-5 and S-6, respectively.
- Foundations of existing signs that are to be removed or relocated shall be removed a minimum of two feet below finished grade.
- Existing signs that are removed shall be disposed of by the Contractor.
- The Contractor shall preserve all signs noted as "Existing to Remain" and replace any damaged as a result of construction activity at the Contractor's expense.
- The Contractor shall inventory all signs to remain or be relocated, and note damaged signs to the Engineer before construction begins. All signs subsequently damaged shall be replaced by the Contractor at no cost to the Department.

### PC/COT SIGNING NOTES

- 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, the Special Provisions and the Approved Plans.
- 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 Traffic Signing Design Manual, the PAG Standard Specifications, the Pima County Supplemental Specifications, any required special provisions, and these plans.
- Signs may be modified and locations adjusted to fit conditions in the field at the discretion of the Traffic Engineer.
- The posted speed limit is 45 mph for Ruthrauff Road and El Camino Del Cerro, 30 mph for Highway Drive and Davis Avenue, and 25 mph for Chester Way and Maryvale Avenue. The design speed is 50 mph for Ruthrauff Road and El Camino Del Cerro, 30 mph for local collector streets, and 25 mph for residential streets. The posted advisory speed for the curve on Chester Way and Maryvale Avenue is 15 mph. Sign placement shall be based on the posted speed limit.
- Post lengths indicated on sign sheets are approximate. The Contractor shall verify actual post lengths.
- All perforated posts shall be installed in a concrete foundation, unless otherwise directed by the Traffic Engineer.
- All sign station locations are approximate, the Contractor shall verify actual sign locations with the Traffic Engineer prior to the installation of any signs.
- 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).
- 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, Type XI. All ground mounted signs shall have an anti graffiti coating applied to sign face, 3M \*1160 film or equivalent.
- A 3" x 2" 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 street name signs at the time of installation. Street name signs shall include a sign identification decal as shown on Pima County Signing Detail 9-22a.
- All new signs shall have 0.080 gauge, radius corner, aluminum backing unless otherwise noted.

- 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.
- 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 for damage to the stockpile shall be the responsibility of the Contractor.
- All signs and posts not being re-used on this project shall be dismantled, stacked and delivered to the Owner (City or County) 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.
- All materials and labor to mount W1-8L or W1-8R signs to poles shall be considered incidental to the respective sign panel item.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
HAO		3-19	
CPG		3-19	
CHECKED	JAV	3-19	
			<b>SIGNING GENERAL NOTES</b>
<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>			
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S	OF








F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	467	849	

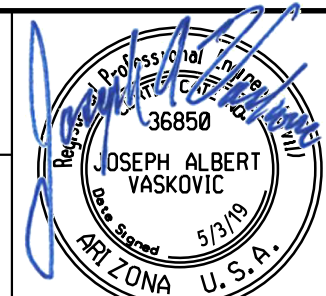
010 PM 252

### APPROXIMATE SIGNING QUANTITIES

	ITEM	ITEM NO.	UNITS	QUANTITY
SIGN STRUCTURES	Bridge Sign Structure (SD9.20, Type 3F)	6060047	EA	6
	Bridge Sign Structure (SD9.20, Type 4F)	6060048	EA	1
	Cantilever Sign Structure (SD9.10, Type 4C)	6060134	EA	3
	Sign Structure (Barrier Sign Structure)	6060153	EA	10
	Sign Structure (Median) (Two-Sided)	6060163	EA	1
SIGN STRUCTURE FOUNDATIONS	Foundation for Bridge Sign Structure (SD9.20, Type 3F)	6060078	EA	12
	Foundation for Bridge Sign Structure (SD9.20, Type 4F)	6060079	EA	2
	Foundation Pedestal for Bridge Sign Structure	6060080	EA	2
	Foundation for Sign Structure (Median) (Two-Sided)	6060239	EA	1
	Foundation for Cantilever Sign Structure (SD9.10, Type 4C)	6060257	EA	3
SIGN POST	Breakaway Sign Post, S4X7.7	6070002	L FT	72
	Breakaway Sign Post, W6X12	6070004	L FT	319
	Sign Post (Perforated) (2S)	6070054	L FT	783
	Sign Post (Perforated) (2 1/2 S)	6070055	L FT	116
	Sign Post (Perforated) (2 1/2 T)	6070057	L FT	1043
SIGN POST FOUNDATIONS	Foundation for Breakaway Sign Post, S4X7.7	6070022	EA	6
	Foundation for Breakaway Sign Post, W6X12	6070024	EA	17
	Slip Base	6070038	EA	77
	Foundation for Sign Post (Concrete)	6070060	EA	159
SIGN PANEL SHEETING TYPE	Warning, Marker, or Regulatory Sign Panel, w/ Type XI Sheet	6080005	SQ FT	1747
	Extruded Alum Sign Panel w/ Type XI Sheet	6080018	SQ FT	2522
	Flat Sheet Alum w/ Dir-App or Silk Scrn Char., Type VII/IX/X Sheet	6080024	SQ FT	212
	Flat Sheet Aluminum Sign Panel	6080025	SQ FT	134
MARKERS	Reference Marker (M-30)	7030090	EA	3
	Milepost Marker (S-10)	7030095	EA	4

### SIGNING LEGEND:

-  New Sign (on Post)
-  Existing Sign
-  New Sign (on Barrier Sign Support)
-  New Cantilever Sign Structure
-  New Bridge Sign Structure


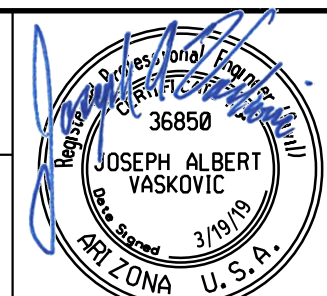
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>SIGNING GENERAL NOTES</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S		DWG NO. T-5.02 OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	468	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks							
			New	EXISTING			Offset (ft)			Legend	Panel Size (INCH)	Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer			Structure Type	No of New Mount Brackets					
				Replace Panel	Relocate Panel	Modify Legend									Remove Exst To Remain	Type		FT. Total Length	Type				FT. Total Length				
T-7.01	E251.43	W4-3R	X				12	7	YL	Added Lane	48	48	16.0	RWM		2	2 1/2T	30	2								
T-7.02	E251.47	W4-1R				X				Merge																	
T-7.02	E251.61	E1-5c(252)				X				EXIT 252																	
	+	GUIDE				X				El Camino Del Cerro Ruthrauff Rd 1/2 Mile																	
T-7.02	E251.64	E1-5c(252)	X						GR	EXIT 252	108	36	27.0	Ext					T	10	3F	4					
	+	GUIDE	X						GR	El Camino Del Cerro Ruthrauff Rd Down Arrow Exit Arrow Only	264	108	198.0	Ext													Mount on Structure
T-7.02	E251.69	R4-103				X				Move Over Or Slow Down																	
T-7.02	E251.70	W9-101L	X				12	7	YL	Thru Traffic Merge Left	48	48	16.0	RWM		2	2 1/2T	30	2								
T-7.03	E251.74	GUIDE				X				Exit 252 (Blank)																	Remove & Relocate
T-7.03	E251.77	GUIDE		X			6	7		Exit 252 (Blank)	-	-	-	-		3	S 4x7.7	36								Reinstall Sign from Sta 5180+95	
T-7.03	E251.83	R4-103	X				6	7	WH	Move Over Or Slow Down	192	84	112.0	Ext		3	W 6x12	49									
T-7.03	E251.85	GUIDE	X						GR	El Camino Del Cerro Ruthrauff Rd 1/4 Prince Rd 2 1/4 (SR 77) Miracle Mile 3 1/4	300	120	250.0	Ext							Med	4					
T-7.03	E251.88	W9-7aAZ	X				6	7	YL	Right Lane Exit Only	132	60	55.0	Ext		2	W 6x12	28									
T-7.03	E251.95	W13-2				X				Exit 45 MPH																	
T-7.03	E251.96	W13-2	X				12	7	YL	Exit 45 MPH	48	60	20.0	RWM		2	2 1/2T	29	2								
T-7.03	E251.97	E1-5c(252)				X				EXIT 252																	
	+	GUIDE				X				El Camino Del Cerro Ruthrauff Rd Up Arrow Diagonal																	

<b>Notes:</b> 1. The Contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the Contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for Installation information.	<b>Panel Types:</b> RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.	<b>Colors:</b> RD = Red BK = Black BL = Blue GR = Green YL = Yellow BR = Brown WT = White OR = Orange	<b>Stringer Types:</b> P: Square-tube post T: T-section (WT75x9)  <b>Post Types:</b> 2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <div style="text-align: center;">  <p>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p> </div> <table border="1" style="width: 100%;"> <tr> <td colspan="2" style="text-align: center;">ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td colspan="2" style="text-align: center;">SIGN SUMMARY</td> </tr> <tr> <td>ROUTE</td> <td>LOCATION</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> </tr> </table> <div style="text-align: right;">  <p>EXPIRES 09/30/2019 DWG. NO. T-5.03 OF</p> </div>	DESIGN	KRH	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JAV	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		SIGN SUMMARY		ROUTE	LOCATION	I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 01D	010-D(213)S
DESIGN	KRH	DATE	3-19																							
DRAWN	CPG	DATE	3-19																							
CHECKED	JAV	DATE	3-19																							
ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																										
SIGN SUMMARY																										
ROUTE	LOCATION																									
I-10	RUTHRAUFF ROAD TI																									
TRACS NO. H 8480 01D	010-D(213)S																									



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	469	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks		
			New	EXISTING						Panel Size (INCH)	Area sq. ft.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type		No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain							Offset (ft)	Type		Ft. Total Length	Type				Ft. Total Length
T-7.04	E251.99	E1-5α(252)	X					GR	EXIT 252	108	36	27.0	Ext									
	+	GUIDE	X					GR	El Camino Del Cerro Ruthrauff Rd Up Arrow Angled Exit Arrow Only	264	108	198.0	Ext									Mount on Structure
T-7.04	E252.00-A	D10-3	X				12	GR	Mile 252					1	2S	7						
T-7.04	E252.00-B	D10-3							Mile 252													
T-7.04	E252.05	E5-1a							Exit 252 Up Arrow Diagonal													
T-7.04	E252.11	E5-1a	X				7	GR	Exit 252 Up Arrow Diagonal	72	60	30.0	Ext	2	S 4x7.7	24						Center Behind Gore
T-7.04	E252.22	R2-1	X				12	7	WH	Speed Limit (65)	48	60	20.0	RWM	2	2 1/2T	29	2				
T-7.05	E252.37	E3-102	X				30	7	GR	El Camino Del Cerro Ruthrauff Rd	156	48	52.0	F-DA	3	2 1/2T	27	3	P 24			
T-7.05	E252.38	E3-102							El Camino Del Cerro Ruthrauff Rd													
T-7.07	E252.59	W4-3R							Added Lane													
T-7.07	E252.61	W4-3R	X				12	7	YL	Added Lane	48	48	16.0	RWM	2	2 1/2T	30	2				
T-7.08	E252.81	M3-2	X				12	7	WH	East	36	18	4.5	RWM	1	2 1/2T	14	1				
	+	M1-1a	X					RD BL	Interstate 10	36	36	9.0	RWM									
T-7.08	E252.82	M3-2							East													
	+	M1-1a							Interstate 10													
T-7.08	E252.93	R2-1	X				12	7	WH	Speed Limit (65)	48	60	20.0	RWM	2	2 1/2T	29	2				
T-7.08	E252.94	R2-1							Speed Limit (65)													
T-7.08	E252.98-A	D10-3							Mile 253													

- Notes:
- The Contractor shall verify post lengths and elevations.
  - Signs may shift longitudinally 50' in order to achieve a more desirable location.
  - Quantities are approximate and for the Contractor's information only.
  - See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	3-19			
CHECKED	JAV	3-19			
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>SIGN SUMMARY</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S		DWG. NO. T-5.04	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	470	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks			
			New	EXISTING						Legend	Panel Size (INCH)		Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend	Remove Exst				To Remain	W				H	Type		Ft. Total Length				Type
T-7.08	E252.98-B	D10-3	X					12	GR	Mile 253					1	2S	7						
T-7.08	E252.99	E1-5c(254)								EXIT 254													
	*	GUIDE								Prince Rd													
										1 Mile													
T-7.08	E253.03	W9-101L								Thru Traffic Merge Left													
T-7.09	E253.12	M3-2								East													
	*	M1-1a								Interstate 10													
T-7.09	E253.14	D12-2								Car Pool Info													
T-7.09	E253.28	GUIDE								Exit 254 Gas (Logos)													
T-7.10	E253.43	GUIDE								Prince Rd 1/2													
										Miracle Mile 1 1/2													
										Grant Rd 2 1/2													

- Notes:
- The Contractor shall verify post lengths and elevations.
  - Signs may shift longitudinally 50' in order to achieve a more desirable location.
  - Quantities are approximate and for the Contractor's information only.
  - See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>SIGN SUMMARY</b>	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S		DWG. NO. T-5.05 OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	471	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks			
			New	EXISTING						Legend	Panel Size (INCH)		Area SO. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend	Remove Exst				To Remain	W				H	Type		FF. Total Length				Type
T-7.01	W251.37	E1-5α(250)					X			EXIT 250													
	+	GUIDE					X			Orange Grove Rd 1 Mile													
T-7.02	W251.49	E1-5α(250)					X			EXIT 250													
	+	GUIDE					X			Pima Comm College													
T-7.02	W251.52	E5-1a	X					7	GR	Exit 251 Up Arrow Diagonal	72	60	30.0	Ext	2	S 4x7.7	24					Center Behind Gore	
T-7.02	W251.55	E5-1a					X			Exit 251 Up Arrow Diagonal													
T-7.02	W251.57	W13-2	X					12	YL	Exit 45 MPH	48	48	16.0	RWM	2	2 1/2T	27	2					
T-7.02	W251.59	W13-2					X			Exit 45 MPH													
T-7.02	W251.65	E1-5α(251)	X						GR	EXIT 251	108	36	27.0	Ext				T 10	4C	3		Mount on Structure	
	+	GUIDE	X						GR	Sunset Rd Exit Up Arrow Diagonal Only	168	84	98.0	Ext									
T-7.02	W251.62	E1-5α(251)					X			EXIT 251													
	+	GUIDE					X			Sunset Rd Up Arrow Diagonal													
T-7.02	W251.63-A	W4-2R	X					6	YL	Lane Ends	48	48	16.0	RWM	2	2 1/2T	30					Mount Behind Barrier	
T-7.02	W251.63-B	W4-2R	X					12	YL	Lane Ends	48	48	16.0	RWM	2	2 1/2T	30	2					
T-7.03	W251.74	W9-7aAZ	X					6	YL	Right Lane Exit Only	132	60	55.0	Ext	2	W 6x12	28					Mount Behind Barrier	
T-7.03	W251.77-A	W4-2R	X					7	YL	Lane Ends	48	48	16.0	RWM	2	2 1/2T	32					Center in Median Behind Barrier	
	+	W16-101P	X						YL	1000 Feet Ahead	48	16	5.3	RWM									
T-7.03	W251.77-B	W4-2R	X					12	YL	Lane Ends	48	48	16.0	RWM	2	2 1/2T	32	2					
	+	W16-101P	X						YL	1000 Feet Ahead	48	16	5.3	RWM									

Notes:

- The Contractor shall verify post lengths and elevations.
- Signs may shift longitudinally 50' in order to achieve a more desirable location.
- Quantities are approximate and for the Contractor's information only.
- See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	3-19			
CHECKED	JAV	3-19			
		<b>SIGN SUMMARY</b>			
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S		DWG. NO. T-5.06	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	472	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks	
			New	EXISTING			Panel Size (INCH)			Area sq. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets		
				Replace Panel	Relocate Panel	Modify Legend							Remove Exst To Remain	Type		Length	Type				Length
T-7.03	W251.83	GUIDE				X			Sunset Rd 1/4												
									Orange Grove Rd 1 1/4												
									Ina Rd 2 1/2												
T-7.03	W251.85	GUIDE	X					GR	Sunset Rd 1/4	300	120	250.0	Ext					Med	4		Mount on Same Structure as E251.85
									Orange Grove Rd 1 1/4												
									Ina Rd 2 3/4												
T-7.03	W251.90	E1-5α(251)	X					GR	EXIT 251	108	36	27.0	Ext				T	10	4C	3	
		GUIDE	X					GR	Sunset Rd	168	84	98.0	Ext								Mount on Structure
									Exit Down Arrow Only												
T-7.04	W251.99-A	R2-1	X					WH	Speed Limit (65)	48	60	20.0	RWM								Mount on Backside of E251.99 Structure
T-7.04	W251.99-B	R2-1	X				12	7	WH	Speed Limit (65)	48	60	20.0	RWM	2	2 1/2T	29	2			
T-7.04	W252.00-A	D10-3	X				12		GR	Mile 252					1	2S	7				
T-7.04	W252.00-B	D10-3				X			Mile 252												
T-7.04	W252.01-A	R2-1				X			Speed Limit (65)												
T-7.04	W252.01-B	R2-1				X			Speed Limit (65)												
T-7.04	W252.09	W4-1R				X			Merge												
T-7.04	W252.14	W4-3R	X				12	7	YL	Added Lane	48	48	16.0	RWM	2	2 1/2T	30	2			
T-7.04	W252.16	E1-5α(251)				X			EXIT 251												
	*	GUIDE				X			Sunset Rd												
									1/2 Mile												
T-7.04	W252.22	E1-5α(251)	X					GR	EXIT 251	108	36	27.0	Ext				T	10	4C	3	
	*	GUIDE	X					GR	Sunset Rd	168	84	98.0	Ext								Mount on Structure
									1/2 Mile												
T-7.05	W252.46	GUIDE				X			El Camino Del Cerro												
									Ruthrauff Rd												

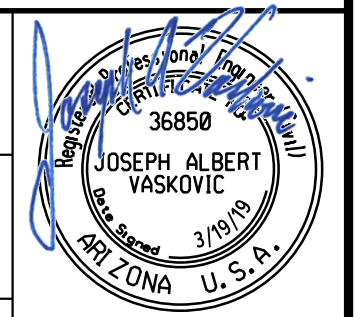
<b>Notes:</b> 1. The Contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the Contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for Installation information.	<b>Panel Types:</b> RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.	<b>Colors:</b> RD = Red BK = Black BL = Blue GR = Green YL = Yellow BR = Brown WT = White OR = Orange	<b>Stringer Types:</b> P: Square-tube post T: T-section (WT75x9)  <b>Post Types:</b> 2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPC</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p> <table border="1"> <tr> <td>ROUTE</td> <td>LOCATION</td> <td>ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> <td><b>SIGN SUMMARY</b></td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> <td>EXPIRES 09/30/2019 DWG. NO. T-5.07</td> </tr> </table>	DESIGN	KRH	DATE	3-19	DRAWN	CPC	DATE	3-19	CHECKED	JAV	DATE	3-19	ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>	TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.07	
DESIGN	KRH	DATE	3-19																							
DRAWN	CPC	DATE	3-19																							
CHECKED	JAV	DATE	3-19																							
ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																								
I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>																								
TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.07																								

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	473	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks			
			EXISTING							Legend	Panel Size (INCH)		Area sq. Ft.	Type	Posts		New Slip Bases	Stringer			Structure Type	No of New Mount Brackets	
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H			Type	#: Total Length		Type	#: Total Length				
T-7.05	W252.47	GUIDE	X				30	7	GR	El Camino Del Cerro Ruthrauff Rd	156	48	52.0	F-DA	3	2 1/2T	27	3	P	24			
T-7.07	W252.67	M3-4	X				12	7	WH	West	36	18	4.5	RWM	1	2 1/2T	14	1					
	+	M1-1a	X						RD BL	Interstate 10	36	36	9.0	RWM									
T-7.07	W252.68	M3-4				X				West													
	+	M1-1a				X				Interstate 10													
T-7.07	W252.76	E5-1a	X				7	GR	Exit 252 Up Arrow Diagonal	72	60	30.0	Ext	2	S 4x7.7	24						Center Behind Gore	
T-7.08	W252.77	E5-1a				X			Exit 252 Up Arrow Diagonal														
T-7.08	W252.87	E1-5α(252)	X					GR	EXIT 252	108	36	27.0	Ext					T	10	4F	4		
	+	GUIDE	X					GR	El Camino Del Cerro Ruthrauff Rd Up Arrow Angled Exit Arrow Only	264	108	198.0	Ext									Mount on Structure	
T-7.08	W252.88-A	E1-5α(252)				X			EXIT 252														
	+	GUIDE				X			El Camino Del Cerro Ruthrauff Rd Up Arrow Diagonal Exit Only														
T-7.08	W252.88-B	D10-103				X			252C														
T-7.08	W252.94	W9-7aAZ				X			Right Lane Exit Only														
T-7.08	W252.98-A	D10-3	X				12	GR	Mile 253					1	2S	7							
T-7.08	W252.98-B	D10-3				X			Mile 253														
T-7.08	W253.02	W9-7aAZ	X				18	7	YL	Right Lane Exit Only	132	60	55.0	Ext	2	W 6x12	32						
T-7.09	W253.09	W9-101L				X			Thru Traffic Merge Left														
T-7.09	W253.17	GUIDE		X			26	7	Exit 252 (Blank)	-	-	-	-	2	W 6x12	43						Reinstall Sign from Sta 5226+60	

<p>Notes:</p> <ol style="list-style-type: none"> <li>The Contractor shall verify post lengths and elevations.</li> <li>Signs may shift longitudinally 50' in order to achieve a more desirable location.</li> <li>Quantities are approximate and for the Contractor's information only.</li> <li>See the ADOT Signing and Marking Standard Drawings for Installation information.</li> </ol>	<p>Panel Types:</p> <p>RWM: Regulatory, Warning, or Marker.  F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  F-DEM: Flat Sheet Aluminum with Demountable Characters.  Ext: Aluminum Extrusion.</p>	<p>Colors:</p> <p>RD = Red  BK = Black  BL = Blue  GR = Green  YL = Yellow  BR = Brown  WT = White  OR = Orange</p>	<p>Stringer Types:</p> <p>P: Square-tube post  T: T-section (WT75x9)</p> <p>Post Types:</p> <p>2S, 2 1/2S: Non-telescoping perforated post  2 1/2T: Telescoping perforated post  S4x7.7: S-shape breakaway post  W6x12: W-shape breakaway post</p>	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc.  177 N. Church Ave.  Suite 1105  Tucson, AZ 85701</p> <table border="1"> <tr> <td>ROUTE</td> <td>LOCATION</td> <td>ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> <td><b>SIGN SUMMARY</b></td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> <td>EXPIRES 09/30/2019 DWG. NO. T-5.08</td> </tr> </table>	DESIGN	KRH	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JAV	DATE	3-19	ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>	TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.08
DESIGN	KRH	DATE	3-19																						
DRAWN	CPG	DATE	3-19																						
CHECKED	JAV	DATE	3-19																						
ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																							
I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>																							
TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.08																							



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	474	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks		
			EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Posts		New Slip Bases	Stringer				
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H			Type	FT. Total Length		Type	FT. Total Length		Structure Type	No of New Mount Brackets
T-7.09	W253.18	GUIDE				X														Remove & Relocate		
T-7.09	W253.19	W9-101L	X				12	7	YL	Thru Traffic Merge Left	48	48	16.0	RWM	2	2 1/2T	30	2				
T-7.09	W253.27-A	SPECIAL				X				Lane Ends Down Arrow												
T-7.09	W253.27-B	E1-5d(252)				X				EXIT 252												
	+	GUIDE				X				EI Camino Del Cerro Ruthrauff Rd Exit Down Arrow Only												
T-7.09	W253.27-C	E1-5d(252)	X						GR	EXIT 252	108	36	27.0	Ext				T	10	4F	4	Mount on Existing Structure
	+	GUIDE	X						GR	EI Camino Del Cerro Ruthrauff Rd Down Arrow EXIT Arrow ONLY	264	108	198.0	Ext								Mount on Existing Structure
T-7.10	W253.31	D12-2				X				Car Pool Info												
T-7.10	W253.32	W4-2L				X				Lane Ends												
T-7.10	W253.33	W4-2L				X				Lane Ends												
T-7.10	W253.43	GUIDE				X				EI Camino Del Cerro Ruthrauff Rd 1/2 Sunset Rd 1 1/2 Orange Grove Rd 2 1/2												
T-7.10	W253.66	SPECIAL				X				Right Lane Ends 3/4 Mile												
T-7.10	W253.74-A	W4-2L				X				Lane Ends												
	+	SPECIAL				X				1/2 Mile												
T-7.10	W253.74-B	W4-2L				X				Lane Ends												
	+	SPECIAL				X				1/2 Mile												
T-7.10	W254.24	W9-1L				X				Left Lane Ends												
	+	SPECIAL				X				1 Mile												

<p>Notes:</p> <ol style="list-style-type: none"> <li>The Contractor shall verify post lengths and elevations.</li> <li>Signs may shift longitudinally 50' in order to achieve a more desirable location.</li> <li>Quantities are approximate and for the Contractor's information only.</li> <li>See the ADOT Signing and Marking Standard Drawings for Installation information.</li> </ol>	<p>Panel Types:</p> <p>RWM: Regulatory, Warning, or Marker.  F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  F-DEM: Flat Sheet Aluminum with Demountable Characters.  Ext: Aluminum Extrusion.</p>	<p>Colors:</p> <p>RD = Red  BK = Black  BL = Blue  GR = Green  YL = Yellow  BR = Brown  WT = White  OR = Orange</p>	<p>Stringer Types:</p> <p>P: Square-tube post  T: T-section (WT75x9)</p> <p>Post Types:</p> <p>2S, 2 1/2S: Non-telescoping perforated post  2 1/2T: Telescoping perforated post  S4x7.7: S-shape breakaway post  W6x12: W-shape breakaway post</p>	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p> <table border="1"> <tr> <td>ROUTE</td> <td>LOCATION</td> <td>ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> <td><b>SIGN SUMMARY</b></td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> <td>EXPIRES 09/30/2019 DWG. NO. T-5.09</td> </tr> </table>	DESIGN	KRH	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JAV	DATE	3-19	ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>	TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.09	
DESIGN	KRH	DATE	3-19																							
DRAWN	CPG	DATE	3-19																							
CHECKED	JAV	DATE	3-19																							
ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																								
I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>																								
TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.09																								

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	475	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks	
			EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H				Type	FF. Total Length		Type		FF. Total Length
T-7.01	EF251.29	M3-2					X			East											
	+	M1-1a					X			Interstate 10											
	+	M6-2L					X			Left Up Arrow											
T-7.01	EF251.30	R5-10a					X			No Pedestrians Bicycles Motor-Driven Cycles											
T-7.02	EF251.61	R8-3					X			No Parking											
T-7.03	EF251.75	R6-1R					X			One Way (In Right Arrow)											
T-7.03	EF251.77-A	R6-1R					X			One Way (In Right Arrow)											
T-7.03	EF251.77-B	R1-1					X			Stop											
T-7.03	EF251.86-A	R6-1R					X			One Way (In Right Arrow)											
T-7.03	EF251.86-B	R6-1R	X					12	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8			
T-7.03	EF251.86-C	R8-3					X			No Parking											
T-7.03	EF251.89	R8-3					X			No Parking											
T-7.03	EF251.91-A	R6-1R					X			One Way (In Right Arrow)											
T-7.03	EF251.91-B	R6-1R	X					12	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8			
T-7.04	EF251.98	R8-3					X			No Parking											
T-7.04	EF252.00	D10-3					X			Mile 252											
T-7.04	EF252.01-A	R5-1a					X			Wrong Way											
T-7.04	EF252.01-B	R5-1a					X			Wrong Way											
T-7.04	EF252.04-A	R5-1	X					12	7	WH	Do Not Enter	30	30	6.3	RWM	1	2 1/2S	12			

<p>Notes:</p> <ol style="list-style-type: none"> <li>The Contractor shall verify post lengths and elevations.</li> <li>Signs may shift longitudinally 50' in order to achieve a more desirable location.</li> <li>Quantities are approximate and for the Contractor's information only.</li> <li>See the ADOT Signing and Marking Standard Drawings for Installation information.</li> </ol>	<p>Panel Types:</p> <p>RWM: Regulatory, Warning, or Marker.</p> <p>F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.</p> <p>F-DEM: Flat Sheet Aluminum with Demountable Characters.</p> <p>Ext: Aluminum Extrusion.</p>	<p>Colors:</p> <p>RD = Red BK = Black BL = Blue GR = Green YL = Yellow BR = Brown WT = White OR = Orange</p>	<p>Stringer Types:</p> <p>P: Square-tube post T: T-section (WT75x9)</p> <p>Post Types:</p> <p>2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post</p>	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p> <table border="1"> <tr> <td>ROUTE</td> <td>LOCATION</td> <td>ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> <td><b>SIGN SUMMARY</b></td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> <td>EXPIRES 09/30/2019 DWG. NO. T-5.10</td> </tr> </table>	DESIGN	KRH	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JAV	DATE	3-19	ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>	TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.10
DESIGN	KRH	DATE	3-19																						
DRAWN	CPG	DATE	3-19																						
CHECKED	JAV	DATE	3-19																						
ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																							
I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>																							
TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.10																							

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	476	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks								
			EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer									
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H				Type	FF. Total Length		Type		FF. Total Length	Structure Type	No of New Mount Brackets					
T-7.04	EF252.04-B	R5-1	X					12	7	WH	Do Not Enter	30	30	6.3	RWM	1	2 1/2S	12										
T-7.04	EF252.04-C	R5-1				X					Do Not Enter																	
T-7.04	EF252.04-D	R5-1				X					Do Not Enter																	
T-7.04	EF252.07-A	W14-1aR									Dead End (For Use With Street Name Sign)																	
	+	D3-1				X					Diamond St																	
	+	D3-1				X					Freeway																	
	+	R1-1				X					Stop																	
	+	R3-5R				X					Right Turn Only																	
T-7.04	EF252.07-B	R6-1R	X					12	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8										
T-7.04	EF252.07-C	R6-1R				X					One Way (In Right Arrow)																	
T-7.04	EF252.08-A	R6-1R				X					One Way (In Right Arrow)																	
T-7.04	EF252.08-B	R6-1R	X					12	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8										
T-7.04	EF252.08-C	W3-2				X					Yield Ahead Symbol																	
T-7.04	EF252.08-D	W3-2				X					Yield Ahead Symbol																	
T-7.04	EF252.09-A	W3-2	X					12	7	YL	Yield Ahead Symbol	36	36	9.0	RWM	1	2 1/2T	12	1									
T-7.04	EF252.09-B	W3-2	X					12	7	YL	Yield Ahead Symbol	36	36	9.0	RWM	1	2 1/2T	12	1									
T-7.04	EF252.10	R6-1R	X					12	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8										
T-7.04	EF252.11-A	R6-1R				X					One Way (In Right Arrow)																	
T-7.04	EF252.11-B	R8-3	X					12	7	WH	No Parking	24	24	4.0	RWM	1	2S	11										
T-7.04	EF252.11-C	D10-103	X					12		GR	252B					1	2S	7										

<b>Notes:</b> 1. The Contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the Contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for Installation information.	<b>Panel Types:</b> RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.	<b>Colors:</b> RD = Red BK = Black BL = Blue GR = Green YL = Yellow BR = Brown WT = White OR = Orange	<b>Stringer Types:</b> P: Square-tube post T: T-section (WT75x9)  <b>Post Types:</b> 2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td></td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td></td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p>	DESIGN	KRH	DATE	3-19	DRAWN	CPG		3-19	CHECKED	JAV		3-19	<table border="1"> <tr> <td colspan="2">ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>SIGN SUMMARY</b></td> </tr> <tr> <td>ROUTE</td> <td>LOCATION</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> </tr> </table>	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		<b>SIGN SUMMARY</b>		ROUTE	LOCATION	I-10	RUTHRAUFF ROAD TI	TRACS NO. H 8480 01D	010-D(213)S	
DESIGN	KRH	DATE	3-19																									
DRAWN	CPG		3-19																									
CHECKED	JAV		3-19																									
ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																												
<b>SIGN SUMMARY</b>																												
ROUTE	LOCATION																											
I-10	RUTHRAUFF ROAD TI																											
TRACS NO. H 8480 01D	010-D(213)S																											





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	478	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks
			New	EXISTING			Panel Size (INCH)			Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend							Remove Exst To Remain	Type		Length	Type			
T-7.05	EF252.26-A	GUIDE				X			(Blank)									Remove & Relocate		
T-7.05	EF252.26-B	GUIDE		X			12 7		(Blank)	-	-	-	-	2	W 6x12	31		Reinstall Sign from Sta 5207+99		
T-7.05	EF252.28-A	GUIDE			X				Left Arrow Ruthrauff Rd											
T-7.05	EF252.28-B	GUIDE			X				El Camino Del Cerro Right Arrow											
T-7.05	EF252.28-C	GUIDE	X				6 7	GR	Left Arrow Ruthrauff Rd	120	24	20.0	F-DA	2	2 1/2T	22	2 P 18	Mount Behind Barrier		
T-7.05	EF252.28-D	GUIDE	X				12 7	GR	El Camino Del Cerro Right Arrow	156	24	26.0	F-DA	3	2 1/2T	36	3 P 24			
T-7.05	EF252.30-A	R3-5L			X				Left Turn Only											
	EF252.30-B	R3-5a			X				Straight Thru Only											
	EF252.30-C	R3-5a			X				Straight Thru Only											
	EF252.30-D	R3-5R			X				Right Turn Only											
	EF252.30-E	R5-1a			X				Wrong Way											
T-7.05	EF252.31-A	R3-8LL	X					WH	Lane Control (2 Lane) (Left / Left)	30	30	6.3	RWM					Install on Vertical Stringer		
	+	R3-5zPL	X					WH	Left 2 Lanes	30	12	2.5	RWM					Install on Vertical Stringer		
	+	R5-1a	X					WH	Wrong Way	36	24	6.0	RWM					Install Back to Back		
T-7.05	EF252.31-B	R3-5L	X					WH	Left Turn Only	48	60	20.0	RWM					3F 2		
T-7.05	EF252.31-C	R3-5L	X					WH	Left Turn Only	48	60	20.0	RWM					2	Mount on Structure	
T-7.05	EF252.31-D	R3-5a	X					WH	Straight Thru Only	48	60	20.0	RWM					2	Mount on Structure	
	+	R5-1a	X					WH	Wrong Way	72	48	24.0	RWM					2	Mount on Structure	
T-7.05	EF252.31-E	R3-5a	X					WH	Straight Thru Only	48	60	20.0	RWM					2	Mount on Structure	
T-7.05	EF252.31-F	R3-5R	X					WH	Right Turn Only	48	60	20.0	RWM					2	Mount on Structure	
T-7.05	EF252.31-G	R3-5R	X				12 7	WH	Right Turn Only	30	36	7.5	RWM	1	2 1/2T	13	1			
	+	R3-5f	X					WH	Right Lane	30	12	2.5	RWM							
	+	R5-1a	X					WH	Wrong Way	36	24	6.0	RWM						Install Back to Back	

- Notes:
- The Contractor shall verify post lengths and elevations.
  - Signs may shift longitudinally 50' in order to achieve a more desirable location.
  - Quantities are approximate and for the Contractor's information only.
  - See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
 F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
 F-DEM: Flat Sheet Aluminum with Demountable Characters.  
 Ext: Aluminum Extrusion.

Colors:

RD = Red  
 BK = Black  
 BL = Blue  
 GR = Green  
 YL = Yellow  
 BR = Brown  
 WT = White  
 OR = Orange

Stringer Types:

P: Square-tube post  
 T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
 2 1/2T: Telescoping perforated post  
 S4x7.7: S-shape breakaway post  
 W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	3-19	<b>SIGN SUMMARY</b>		
CHECKED	JAV	3-19			
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI	TRACS NO. H 8480 01D 010-D(213)S DWG. NO. T-5.13 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	480	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks		
			EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Posts		Stringer		Structure Type		No of New Mount Brackets	
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H			Type	Ft. Total Length	New Slip Bases	Type				Ft. Total Length
T-7.06	EF252.56-B	D1-1				X																
T-7.06	EF252.56-C	D1-1	X				12	7	GR	Calle Agua Nueva Right Arrow	144	24	24.0	F-DA	2	2 1/2T	24	2	P	22		
T-7.06	EF252.57	M3-2	X				12	7	WH	East	24	12	2.0	RWM	1	2 1/2T	14	1				
	+	M1-1a	X						BL	Interstate 10	24	24	4.0	RWM								
	+	M6-2L	X						WH	Up Right Arrow	24	18	3.0	RWM								
T-7.06	EF252.58-A	R2-1				X				Speed Limit (45)												
T-7.06	EF252.58-B	R2-1	X				12	7	WH	Speed Limit (45)	30	36	7.5	RWM	1	2 1/2S	12	1				
T-7.07	EF252.63-A	R6-1R				X				One Way (In Right Arrow)												
T-7.07	EF252.63-B	R6-1R	X				8	5	WH	One Way (In Right Arrow)	36	12	3.0	RWM	1	2S	8					
T-7.07	EF252.63-C	R1-1	X				12	7	WH	Stop	30	30	6.3	RWM	2	2 1/2T	26	2				
	+	D3-1	X						GR	Calle Agua Nueva	72	12	6.0	F-DA								
T-7.07	EF252.63-D	R1-1				X				Stop												
	+	D3-1				X				Calle Agua Nueva												
T-7.08	EF252.98	D10-3				X				Mile 253												

**Notes:**

- The Contractor shall verify post lengths and elevations.
- Signs may shift longitudinally 50' in order to achieve a more desirable location.
- Quantities are approximate and for the Contractor's information only.
- See the ADOT Signing and Marking Standard Drawings for Installation information.

**Panel Types:**

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

**Colors:**

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

**Stringer Types:**

P: Square-tube post  
T: T-section (WT75x9)

**Post Types:**

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JAV	DATE	3-19

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

**SIGN SUMMARY**

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 01D 010-D(213)S

EXPIRES 09/30/2019  
DWG. NO. T-5.15

JOSEPH ALBERT VASKOVIC  
Professional Engineer  
No. 36850  
State of Arizona

OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	482	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks		
			EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Posts		New Slip Bases	Stringer			Structure Type	No of New Mount Brackets
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H			Type	#: Total Length		Type	#: Total Length			
T-7.03	WF251.71	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.73	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.74	R8-3					X			No Parking												
T-7.03	WF251.76	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.79	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.82	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.85	R8-3					X			No Parking												
T-7.03	WF251.86	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.88	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.89	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.91	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.92	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.95	R6-1R					X			One Way (In Right Arrow)												
T-7.03	WF251.97	R5-1	X					12	7	WH	Do Not Enter	30	30	6.3	RWM	1	2 1/2S	12				
T-7.04	WF252.00-A	R5-1					X				Do Not Enter											
	*	R8-3					X				No Parking											
T-7.04	WF252.00-B	D10-3					X				Mile 252											
T-7.04	WF252.21	R8-3	X					12	7	WH	No Parking	24	24	4.0	RWM	1	2S	11				

Notes:

- The Contractor shall verify post lengths and elevations.
- Signs may shift longitudinally 50' in order to achieve a more desirable location.
- Quantities are approximate and for the Contractor's information only.
- See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JAV	DATE	3-19

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

WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

SIGN SUMMARY

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 01D 010-D(213)S

EXPIRES 09/30/2019  
DWG. NO. T-5.17

JOSEPH ALBERT VASKOVIC  
Professional Engineer  
No. 36850  
U.S.A.

OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	484	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks			
			New	EXISTING						Legend	Panel Size (INCH)		Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H				Type	Ft. Total Length		Type				Ft. Total Length
T-7.06	WF252.41-A	R2-1	X					WH	Speed Limit (45)	30	36	7.5	RWM							Mount on Barrier Sign Support. See Signing Details.			
T-7.06	WF252.41-B	R2-1	X					WH	Speed Limit (45)	30	36	7.5	RWM							Mount on Barrier Sign Support. See Signing Details.			
T-7.06	WF252.41-C	R2-1			X				Speed Limit (45)														
T-7.06	WF252.41-D	R2-1			X				Speed Limit (45)														
T-7.06	WF252.49-A	R3-8RR	X					WH	Lane Control (2 Lane) (Right / Right)	30	30	6.3	RWM							Mount on Barrier Sign Support. See Signing Details.			
	*	R3-5zPR	X					WH	Right 2 Lanes	30	12	2.5	RWM										
T-7.06	WF252.49-B	R3-5R			X				Right Turn Only														
T-7.06	WF252.50	W10-3R			X				Right Side Road RR Crossing														
T-7.06	WF252.51-A	R3-6L			X				Optional Movement (Straight/ Left)														
	*	M6-1L			X				Left Arrow														
	*	W12-2			X				Up Arrow 14-6" Down Arrow														
	*	R5-1a			X				Wrong Way														
T-7.06	WF252.51-B	R3-6L			X				Optional Movement (Straight/ Left)														
T-7.06	WF252.51-C	R3-5a			X				Straight Thru Only														
	*	R5-1a			X				Wrong Way														
T-7.06	WF252.51-D	R3-5R			X				Right Turn Only														
T-7.06	WF252.51-E	R3-5R			X				Right Turn Only														
	*	R5-1a			X				Wrong Way														
T-7.06	WF252.56-A	GUIDE			X				Left Arrow El Camino Del Cerro														
T-7.06	WF252.56-B	GUIDE			X				Up Arrow Sunset Rd														
	*	GUIDE			X				Ruthrauff Rd Right Arrow														
T-7.06	WF252.57-A	GUIDE	X					GR	Ruthrauff Rd Right Arrow	96	24	16.0	F-DA							Mount on Barrier Sign Support. See Signing Details.			

<p>Notes:</p> <ol style="list-style-type: none"> <li>The Contractor shall verify post lengths and elevations.</li> <li>Signs may shift longitudinally 50' in order to achieve a more desirable location.</li> <li>Quantities are approximate and for the Contractor's information only.</li> <li>See the ADOT Signing and Marking Standard Drawings for Installation information.</li> </ol>	<p>Panel Types:</p> <p>RWM: Regulatory, Warning, or Marker.</p> <p>F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.</p> <p>F-DEM: Flat Sheet Aluminum with Demountable Characters.</p> <p>Ext: Aluminum Extrusion.</p>	<p>Colors:</p> <p>RD = Red BK = Black BL = Blue GR = Green YL = Yellow BR = Brown WT = White OR = Orange</p>	<p>Stringer Types:</p> <p>P: Square-tube post T: T-section (WT75x9)</p> <p>Post Types:</p> <p>2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post</p>	<table border="1"> <tr> <td>DESIGN</td> <td>KRH</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>DRAWN</td> <td>CPG</td> <td>DATE</td> <td>3-19</td> </tr> <tr> <td>CHECKED</td> <td>JAV</td> <td>DATE</td> <td>3-19</td> </tr> </table> <p><b>WSP</b> WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</p> <table border="1"> <tr> <td>ROUTE</td> <td>LOCATION</td> <td>ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES</td> </tr> <tr> <td>I-10</td> <td>RUTHRAUFF ROAD TI</td> <td><b>SIGN SUMMARY</b></td> </tr> <tr> <td>TRACS NO. H 8480 01D</td> <td>010-D(213)S</td> <td>EXPIRES 09/30/2019 DWG. NO. T-5.19</td> </tr> </table>	DESIGN	KRH	DATE	3-19	DRAWN	CPG	DATE	3-19	CHECKED	JAV	DATE	3-19	ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>	TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.19	
DESIGN	KRH	DATE	3-19																							
DRAWN	CPG	DATE	3-19																							
CHECKED	JAV	DATE	3-19																							
ROUTE	LOCATION	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES																								
I-10	RUTHRAUFF ROAD TI	<b>SIGN SUMMARY</b>																								
TRACS NO. H 8480 01D	010-D(213)S	EXPIRES 09/30/2019 DWG. NO. T-5.19																								



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	485	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK						Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks			
			New	EXISTING							Legend	Panel Size (INCH)		Area SQ. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets	
				Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain	Offset (ft)				W	H				Type	Post Length		Type				Stringer Length
T-7.06	WF252.57-B	GUIDE	X						GR	Left Arrow El Camino Del Cerro	96	24	16.0	F-DA							Mount on Barrier Sign Support. See Signing Details.			
T-7.07	WF252.59-A	R3-8LL	X						WH	Lane Control (2 Lane) (Left / Left)	30	30	6.3	RWM							Mount on Vertical Stringer			
	+	R3-5zPL	X						WH	Left 2 Lanes	30	12	2.5	RWM							Mount on Vertical Stringer			
	+	R5-1a	X						WH	Wrong Way	36	24	6.0	RWM							Mount Back to Back			
T-7.07	WF252.59-B	R3-5L	X						WH	Left Turn Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-C	R3-5L	X						WH	Left Turn Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-D	R3-5a	X						WH	Straight Thru Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-E	R3-5a	X						WH	Straight Thru Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-F	R5-1a	X						WH	Wrong Way	72	48	24.0	RWM							2	Mount Back to Back		
T-7.07	WF252.59-G	R3-5R	X						WH	Right Turn Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-H	R3-5R	X						WH	Right Turn Only	48	60	20.0	RWM							2			
T-7.07	WF252.59-I	R3-8RR	X						WH	Lane Control (2 Lane) (Right / Right)	30	30	6.3	RWM								Mount on Vertical Stringer		
	+	R3-5zPR	X						WH	Right 2 Lanes	30	12	2.5	RWM								Mount on Vertical Stringer		
	+	R5-1a	X						WH	Wrong Way	36	24	6.0	RWM								Mount on Vertical Stringer		
T-7.07	WF252.60	GUIDE				X				(Blank)												Remove & Relocate		
T-7.07	WF252.62	GUIDE		X						(Blank)	-	-	-	-	2	W 6x12	31					Reinstall Sign from Sta 5225+91		
T-7.07	WF252.74-A	SHIELD				X				Black Shield														
T-7.07	WF252.74-B	RI-2				X				Yield														
T-7.07	WF252.74-C	RI-2				X				Yield														
T-7.07	WF252.76-A	RI-2	X					7	WH	Yield	36	36	9.0	RWM	1	2 1/2T	12	1				Center in Median		
	+	RI-2rP	X						WH	To Ramp Traffic	30	18	3.8	RWM										

Notes:

- The Contractor shall verify post lengths and elevations.
- Signs may shift longitudinally 50' in order to achieve a more desirable location.
- Quantities are approximate and for the Contractor's information only.
- See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:

RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19
DRAWN	CPG		3-19
CHECKED	JAV		3-19

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

WSP

WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

SIGN SUMMARY

ROUTE: I-10 LOCATION: RUTHRAUFF ROAD TI

TRACS NO. H 8480 01D

010-D(213)S

EXPIRES 09/30/2019  
DWG. NO. T-5.20

JOSEPH ALBERT VASKOVIC  
Professional Engineer  
No. 36950  
State of Arizona

OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	486	849	

010 PM 252

Plan Sheet No	Sign No	MOAS Sign Code	WORK					Mounting Height (ft)	Background Color	PANEL				GROUND MOUNT				OVERHEAD		Remarks					
			EXISTING							Legend	Panel Size (INCH)		Area sq. FT.	Type	Foundations	Posts		New Slip Bases	Stringer		Structure Type	No of New Mount Brackets			
			New	Replace Panel	Relocate Panel	Modify Legend	Remove Exst To Remain				W	H				Type	FF. Total Length		Type				FF. Total Length		
T-7.07	WF252.76-B	R1-2	X					2	7	WH	Yield	36	36	9.0	RWM	1	2 1/2T	12						Mount Behind Barrier	
	+	R1-2rP	X							WH	To Ramp Traffic	30	18	3.8	RWM										
T-7.07	WF252.76-C	SHIELD	X					7		BK	Black Shield	48	48	16.0	RWM	2	2 1/2T	22	2						Center in Median
T-7.08	WF252.78-A	R5-1	X					12	7	WH	Do Not Enter	30	30	6.3	RWM	1	2 1/2S	12							
T-7.08	WF252.78-B	R5-1	X					12	7	WH	Do Not Enter	30	30	6.3	RWM	1	2 1/2S	12							
T-7.08	WF252.80-A	R5-1a	X					12	7	WH	Wrong Way	36	24	6.0	RWM	1	2 1/2S	11							
T-7.08	WF252.80-B	R5-1a	X					12	7	WH	Wrong Way	36	24	6.0	RWM	1	2 1/2S	11							
T-7.08	WF252.81	D10-103	X					12		GR	252C														
T-7.08	WF252.82-A	W3-2	X					12	7	YL	Yield Ahead Symbol	36	36	9.0	RWM	1	2 1/2T	12	1						
T-7.08	WF252.82-B	W3-2	X					12	7	YL	Yield Ahead Symbol	36	36	9.0	RWM	1	2 1/2T	12	1						
T-7.08	WF252.86-A	W3-2									Yield Ahead Symbol														
T-7.08	WF252.86-B	W3-2									Yield Ahead Symbol														
T-7.08	WF252.98	D10-3									Mile 253														

- Notes:
- The Contractor shall verify post lengths and elevations.
  - Signs may shift longitudinally 50' in order to achieve a more desirable location.
  - Quantities are approximate and for the Contractor's information only.
  - See the ADOT Signing and Marking Standard Drawings for Installation information.

Panel Types:

RWM: Regulatory, Warning, or Marker.  
F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters.  
F-DEM: Flat Sheet Aluminum with Demountable Characters.  
Ext: Aluminum Extrusion.

Colors:


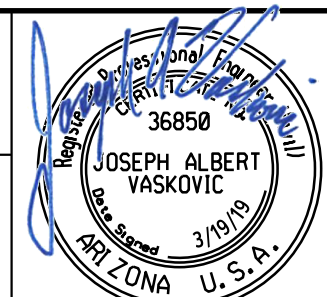
RD = Red  
BK = Black  
BL = Blue  
GR = Green  
YL = Yellow  
BR = Brown  
WT = White  
OR = Orange

Stringer Types:

P: Square-tube post  
T: T-section (WT75x9)

Post Types:

2S, 2 1/2S: Non-telescoping perforated post  
2 1/2T: Telescoping perforated post  
S4x7.7: S-shape breakaway post  
W6x12: W-shape breakaway post

DESIGN	KRH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
SIGN SUMMARY		RUTHRAUFF ROAD TI		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	
TRACS NO.	H 8480 01D	PROJECT NO.	010-D(213)S	
				EXPIRES 09/30/2019 DWG. NO. T-5.21 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	487	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED				OVERHEAD		REMARKS					
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER			STRUCTURE TYPE	NUMBER OF LIGHTS			
						REMOVE EXISTING	EXST TO REMAIN												TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES	TOTAL LENGTH (FT)						
1	EW 81+62	W8-13				X				ICE FORMS ON BRIDGE FIRST						2020034												
1	EW 83+55	W11-15				X				TRAIL CROSSING						2020034												
	+	W16-2a				X				300FT						2020034												
1	EE 85+69	W9-101				X				THRU TRAFFIC MERGE LEFT						2020034												
1	EW 85+72	D7-101				X				CHRISTOPHER COL. PARK						2020034												
1	EE 86+50	W9-2L				X				LANE ENDS MERGE LEFT						2020034												
1	EE 92+51	W12-2				X				14'-6" Clearance Symbol						2020034												
	+	W16-5P				X				Supplemental Warning Arrows						2020034												
1	EW 92+81	R2-1				X				SPEED LIMIT (45)						2020034												
	+	R2-3P				X				NIGHT (40)						2020034												
1	EW 93+05	R1-1				X				STOP						2020034												
	+	R3-2				X				No Left Turn Symbol						2020034												
2	EE 95+57	R3-5R				X				Right Turn Arrow ONLY						2020034												
2	EW 95+87	R1-2				X				YIELD						2020034												
2	EE 95+97	D1-2				X				Phoenix/EI Paso						2020034												
2	EW 96+49	OM2-2H				X				Type 2 Object Marker Horizontal						2020034												
2	EW 96+97	D3-1				X				Freeway 3000 W						2020034												
	+	R6-1L				X				ONE WAY (Left)						2020034												
2	EE 96+97	D3-1				X				Freeway 3000 W						2020034												
	+	R6-1R				X				ONE WAY (Right)						2020034												
2	EE 97+13	R3-5R				X				Right Turn Arrow ONLY						2020034												
	+	R5-115				X				ST PROPERTY NO TRESPASSING						2020034												

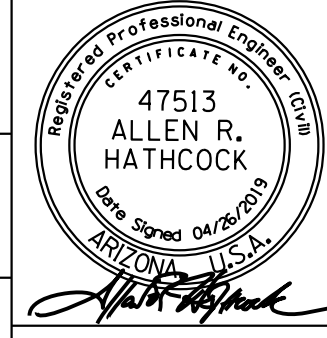
**NOTES:**  
1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
2. The Engineer may shift a sign in order to achieve a more desirable location.  
3. Quantities are approximate and for the Contractor's information only.  
\* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
RWM: Regulatory, Warning or Marker  
F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet increment  
Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
WH: White  
BK: Black  
GR: Green  
RD: Red  
YL: Yellow  
BL: Blue  
BR: Brown  
OR: Orange

**STRINGER TYPES:**  
P: Square-tube post  
T: T-section (WT75x9)

**POST TYPES:**  
S: Non-telescoping perforated post  
T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
<b>Kimley»Horn</b>		SIGN SUMMARY RUTHRAUFF RD SHEET 1 OF 15		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-6.01
TRACS NO. H8480 01C			010-D(213)S	OF



SIGN SUMMARY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	489	849	

010 PM 252

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	GROUND MOUNTED			OVERHEAD		REMARKS	
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING													POSTS		STRINGER		STRUCTURE TYPE		NUMBER OF LIGHTS
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES			
2	RW 100+78	W3-3				X				Signal Ahead Symbol						2020034									
	+	R5-115				X				ST PROPERTY NO TRESPASSING						2020034									
2	RW 100+82	W12-2				X				14' -6" Clearance Symbol						2020034									
	+	R3-5L				X				Left Turn Arrow ONLY						2020034									
	+	R3-5L				X				Left Turn Arrow ONLY						2020034									
	+	R3-5a				X				Mandatory Movement Lane Control						2020034									
2	RW 100+96	R2-1				X				SPEED LIMIT (45)						2020034									
2	RW 101+36	R2-1				X				SPEED LIMIT (45)						2020034									
2	RW 101+60	D3-1				X				Freeway 3000 W						2020034									
	-	D3-1				X				Freeway 3000 W						2020034									
	+	R3-2				X				No Left Turn Symbol						2020034									
2	RE 101+94	R3-1				X				No Right Turn Symbol						2020034									
2	RW 102+10	R6-1R				X				ONE WAY (Right)						2020034									
2	RE 102+10	R6-1L				X				ONE WAY (Left)						2020034									
2	RW 102+20	D3-1				X				Ruthrauff Rd/EI Cmo Del Cerro						2020034									
2	RW 102+64	R6-1R				X				ONE WAY (Right)						2020034									
2	RE 102+64	R6-1L				X				ONE WAY (Left)						2020034									
	+	W25-2				X				EXTENDED GREEN						2020034									
2	RE 102+71	R4-7				X				Keep Right Symbol						2020034									
	+	W25-2				X				EXTENDED GREEN						2020034									
2	RW 102+71	R3-18				X				U-Turn & Left Turn Prohibition						2020034									
2	RE 102+76	OMI-2				X				Type 1 Object Marker						2020034									
2	RE 102+83	R5-1				X				DO NOT ENTER						2020034									

**NOTES:**  
 1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
 2. The Engineer may shift a sign in order to achieve a more desirable location.  
 3. Quantities are approximate and for the Contractor's information only.  
 \* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
 RWM: Regulatory, Warning or Marker  
 F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet increment  
 Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
 WH: White  
 BK: Black  
 GR: Green  
 RD: Red  
 YL: Yellow  
 BL: Blue  
 BR: Brown  
 OR: Orange

**STRINGER TYPES:**  
 P: Square-tube post  
 T: T-section (WT75x9)  
**POST TYPES:**  
 S: Non-telescoping perforated post  
 T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
<b>Kimley»Horn</b>		SIGN SUMMARY RUTHRAUFF RD SHEET 3 OF 15		DWG NO. T-6.03
ROUTE	LOCATION	RUTHRAUFF T1		
TRACS NO. H8480 01C		010-D(213)S		OF









F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	493	849	

010 PM 252

### SIGN SUMMARY

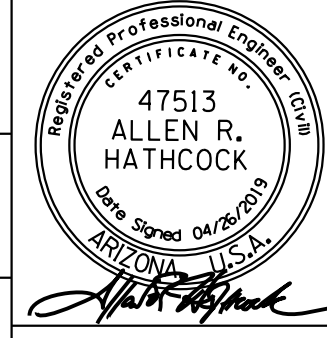
PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED				OVERHEAD		REMARKS															
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER			STRUCTURE TYPE	NUMBER OF LIGHTS													
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES				TYPE	TOTAL LENGTH (FT)											
3	RE 116+51	R1-1				X				STOP						2020034																						
	+	D3-1				X				RUTHRAUFF RD						2020034																						
	+	D3-1				X				PARWAY DR						2020034																						
3	RE 117+22	R8-3					X			NO PARKING																												
3	RW 118+81	R3-5FP					X			RIGHT LANE																												
	+	R3-5R					X			Right Turn Arrow ONLY																												
3	RE 119+38	R7-107A					X			Bus Stop / Parking Symbol																												
3	RW 119+46	R3-5FP					X			RIGHT LANE																												
	+	R3-5R					X			Right Turn Arrow ONLY																												
3	RW 119+83	R1-1					X			STOP																												
	+	D3-1					X			RUTHRAUFF RD																												
	+	D3-1					X			PLANE AVE																												
3	HS 16+09	Custom					X			FLASH DURING TRAIN CROSSING						2020034																						
3	HS 16+85	W11-2					X			Pedestrian Crossing Symbol						2020034																						
3	HN 17+34	R2-1					X			SPEED LIMIT (30)						2020034																						
3	HS 17+65	R7-107a					X			Bus Stop / Parking Symbol						2020034																						
3	HN 18+42	W11-2					X			Pedestrian Crossing Symbol						2020034																						
3	HN 18+80	Custom					X			BLANK						2020034																						
3	HS 18+91	R3-7R					X			RIGHT LANE MUST TURN RIGHT						2020034																						
3	HS 21+17	W1-8L					X			Left Chevron						2020034																						
3	HS 21+31	W1-8L					X			Left Chevron						2020034																						

**NOTES:**  
1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
2. The Engineer may shift a sign in order to achieve a more desirable location.  
3. Quantities are approximate and for the Contractor's information only.  
\* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
RWM: Regulatory, Warning or Marker  
F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet increment  
Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
WH: White  
BK: Black  
GR: Green  
RD: Red  
YL: Yellow  
BL: Blue  
BR: Brown  
OR: Orange

**STRINGER TYPES:**  
P: Square-tube post  
T: T-section (WT75x9)  
  
**POST TYPES:**  
S: Non-telescoping perforated post  
T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
<b>Kimley»Horn</b>		SIGN SUMMARY RUTHRAUFF RD SHEET 7 OF 15		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-6.07
TRACS NO.	H8480 OIC		010-D(213)S	OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	495	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	GROUND MOUNTED			OVERHEAD		REMARKS	
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING													POSTS		STRINGER		STRUCTURE TYPE		NUMBER OF LIGHTS
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES			
1	EW 91+70	R6-1R	X					5	BK	ONE WAY (Right)	54	18	6.8	RWM	XI	6080005	2	2S	12				Center In Median		
1	EW 92+82	W9-1R	X					12	BL	RIGHT LANE ENDS	36	36	9.0	RWM	XI	6080005	1	2 1/2T	12	1					
1	EE 93+09	R4-4	X					12	WH	BEGIN RIGHT TURN LANE	36	30	7.5	RWM	XI	6080005	1	2 1/2T	12	1					
1	EE 94+00-A	GUIDE	X						GR	I-10 WEST/Phoenix	180	72	90.0	Ext	XI	6080018					3F		Mount Overhead On Frame		
	EE 94+00-B	GUIDE	X						GR	I-10 EAST/Tucson	120	60	50.0	Ext	XI	6080018							Mount Overhead On Frame		
	EE 94+00-C	R3-5fP	X						WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005							Mount On Frame Pole		
	+	R3-5R	X						WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005									
2	EW 94+31	W9-101	X					12	BL	THRU TRAFFIC MERGE LEFT	36	36	9.0	RWM	XI	6080005	1	2 1/2T	12	1					
2	EW 96+64	R5-1	X					12	WH	DO NOT ENTER	36	36	9.0	RWM	XI	6080005	2	2 1/2T	30	2					
		R5-1A	X						RD	WRONG WAY	42	30	8.8	RWM	XI	6080005									
2	RW 96+67	R3-1	X						WH	No Right Turn Symbol	54	18	6.8	RWM	XI	6080005							Mount On Signal Pole		
	+	R6-1L	X						BK	ONE WAY (Left)	36	36	9.0	RWM	XI	6080005							Mount On Signal Pole		
	+	D3-1M	X						GR	Freeway 3000 W	84	18	10.5	F-DA	XI	6080025							Flag Mount on Signal Pole		
	+	R6-2L	X						WH	ONE WAY Arrow (Left)	30	36	7.5	RWM	XI	6080005							Mount on Mast Arm		
2	EW 97+09	M3-2	X						BL	EAST	24	12	2.0	RWM	XI	6080005							Mount On A Pole		
	+	M1-1A	X						BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005							Mount On A Pole		
	+	M6-1L	X						BL	Left Directional Arrow	24	18	3.0	RWM	XI	6080005							Mount On A Pole		
	-	R3-18	X						WH	U-Turn & Left Turn Prohibition	36	36	9.0	RWM	XI	6080005							Back To Back		
2	EW 97+23	R3-5ZPL	X						WH	LEFT 2 LANES	30	12	2.5	RWM	XI	6080005							Mount On Barrier Per Detail T1		
	+	R3-8LL	X						WH	Double Left Turn Only	30	30	6.3	RWM	XI	6080005							Mount On Barrier Per Detail T1		
2	EE 97+44	R5-1	X					12	WH	DO NOT ENTER	48	48	16.0	RWM	XI	6080005	2	2 1/2T	20	2			Install Red Reflective Strips on Posts per TGP 314		
	+	R5-1A	X						RD	WRONG WAY	48	36	12.0	RWM	XI	6080005									
2	EW 97+49	R3-1	X						WH	No Right Turn Symbol	36	36	9.0	RWM	XI	6080005							Mount On Signal Pole		
	+	R6-1L	X						BK	ONE WAY (Left)	54	18	6.8	RWM	XI	6080005							Mount On Signal Pole		
	-	R6-1R	X						BK	ONE WAY (Right)	54	18	6.8	RWM	XI	6080005							Back To Back		

**NOTES:**  
1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
2. The Engineer may shift a sign in order to achieve a more desirable location.  
3. Quantities are approximate and for the Contractor's information only.  
\* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
RWM: Regulatory, Warning or Marker  
F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet overlaid  
Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
WH: White  
BK: Black  
GR: Green  
RD: Red  
YL: Yellow  
BL: Blue  
BR: Brown  
OR: Orange

**STRINGER TYPES:**  
P: Square-tube post  
T: T-section (WT75x9)  
  
**POST TYPES:**  
S: Non-telescoping perforated post  
T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
			SIGN SUMMARY RUTHRAUFF RD SHEET 9 OF 15	DWG NO. T-6.09
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO. H8480 01C			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	496	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	GROUND MOUNTED			OVERHEAD		REMARKS	
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING													POSTS		STRINGER		STRUCTURE TYPE		NUMBER OF LIGHTS
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES			
2	EE 97+57	R3-5fP	X					12	7	WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005	1	2 1/2T	13	1				
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005								
2	EE 97+92	D3-1M	X							GR	Ruthrauff Rd/EI Cmo Del Cerro	120	24	20.0	F-DA	XI	6080025							Flag Mount On Signal Pole	
2	EE 98+53	M3-2	X							BL	EAST	24	12	2.0	RWM	XI	6080005							Mount On Signal Pole	
	+	M1-1A	X							BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005							Mount On Signal Pole	
	+	M6-1R	X							BL	Right Directional Arrow	24	18	3.0	RWM	XI	6080005							Mount On Signal Pole	
	+	R6-2R	X							WH	ONE WAY Arrow (Right)	30	36	7.5	RWM	XI	6080005							Mount On Mast Arm	
	+	D3-1M	X							GR	Freeway 3000 W	84	18	10.5	F-DA	XI	6080025							Flag Mount On Signal Pole	
2	EE 98+70	M3-4	X						7	BL	WEST	24	12	2.0	RWM	XI	6080005	1	2 1/2T	15	1			Center In Median	
	+	M1-1A	X							BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005							Foundation per Detail T3	
	+	M6-3	X							BL	Straight Ahead Directional Arrow	24	18	3.0	RWM	XI	6080005								
	+	R4-7	X							WH	Keep Right Symbol	24	30	5.0	RWM	XI	6080005								
2	EW 98+70	R3-5ZPL	X						7	WH	LEFT 2 LANES	30	12	2.5	RWM	XI	6080005							Back to Back to EE 98+70	
	-	R3-8LL	X							WH	Double Left Turn Only	30	30	6.3	RWM	XI	6080005							Back to Back to EE 98+70	
2	RE 101+11	R3-5ZPL	X						7	WH	LEFT 2 LANES	30	12	2.5	RWM	XI	6080005							Back to Back to RW 101+11	
	-	R3-8LL	X							WH	Double Left Turn Only	30	30	6.3	RWM	XI	6080005							Back to Back to RW 101+11	
2	RW 101+11	M3-2	X						7	BL	EAST	24	12	2.0	RWM	XI	6080005	1	2 1/2T	15	1			Center In Median	
	+	M1-1A	X							BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005							Foundation per Detail T3	
	+	M6-3	X							BL	Straight Ahead Directional Arrow	24	18	3.0	RWM	XI	6080005								
	+	R4-7	X							WH	Keep Right Symbol	24	30	5.0	RWM	XI	6080005								
2	RW 101+26	M3-4	X							BL	WEST	24	12	2.0	RWM	XI	6080005							Mount On Signal Pole	
	+	M1-1A	X							BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005							Mount On Signal Pole	
	+	M6-1R	X							BL	Right Directional Arrow	24	18	3.0	RWM	XI	6080005							Mount On Signal Pole	
	+	R6-2R	X							WH	ONE WAY Arrow (Right)	30	36	7.5	RWM	XI	6080005							Mount On Mast Arm	
	+	D3-1M	X							GR	Freeway 2900 W	84	18	10.5	F-DA	XI	6080025							Flag Mount On Signal Pole	
2	EW 101+87	D3-1M	X							GR	Ruthrauff Rd/EI Cmo Del Cerro	120	24	20.0	F-DA	XI	6080025							Flag Mount On Signal Pole	

**NOTES:**  
 1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
 2. The Engineer may shift a sign in order to achieve a more desirable location.  
 3. Quantities are approximate and for the Contractor's information only.  
 \* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
 RWM: Regulatory, Warning or Marker  
 F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet overlaid  
 Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
 WH: White  
 BK: Black  
 GR: Green  
 RD: Red  
 YL: Yellow  
 BL: Blue  
 BR: Brown  
 OR: Orange

**STRINGER TYPES:**  
 P: Square-tube post  
 T: T-section (WT75x9)

**POST TYPES:**  
 S: Non-telescoping perforated post  
 T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	V. CASTANEDA	4-19			
CHECKED	A. HATHCOCK	4-19			
			SIGN SUMMARY RUTHRAUFF RD SHEET 10 OF 15		
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			DWG NO. T-6.10		

### SIGN SUMMARY



PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED				OVERHEAD		REMARKS					
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER			STRUCTURE TYPE	NUMBER OF LIGHTS			
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES				TYPE	TOTAL LENGTH (FT)	
2	RW 102+18	R3-5fP	X					12	7	WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005	1	2 1/2T	13	1							
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005											
2	RE 102+25	R3-1	X							WH	No Right Turn Symbol	36	36	9.0	RWM	XI	6080005											Mount On Signal Pole
	+	R6-1L	X							BK	ONE WAY (Left)	54	18	6.8	RWM	XI	6080005											Mount On Signal Pole
	-	R6-1R	X							BK	ONE WAY (Right)	54	18	6.8	RWM	XI	6080005											Back To Back
2	RW 102+28	R5-1	X					12	3	WH	DO NOT ENTER	48	48	16.0	RWM	XI	6080005	2	2 1/2T	20	2							Install Red Reflective Strips on Posts per TGP 314
	+	R5-1A	X							RD	WRONG WAY	48	36	12.0	RWM	XI	6080005											
2	RE 102+50	R3-5ZPL	X							WH	LEFT 2 LANES	30	12	2.5	RWM	XI	6080005											Mount On Barrier Per Detail T1
	+	R3-8LL	X							WH	Double Left Turn Only	30	30	6.3	RWM	XI	6080005											Mount On Barrier Per Detail T1
2	RW 102+67	R3-18	X							WH	U-Turn & Left Turn Prohibition	36	36	9.0	RWM	XI	6080005											Mount On A Pole
	-	M3-4	X							BL	WEST	24	12	2.0	RWM	XI	6080005											Mount On A Pole, Back To Back
	-	M1-1A	X							BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005											Mount On A Pole, Back To Back
	-	M6-1L	X							BL	Left Directional Arrow	24	18	3.0	RWM	XI	6080005											Mount On A Pole, Back To Back
2	RE 103+10	R6-1L	X							BK	ONE WAY (Left)	54	18	6.8	RWM	XI	6080005											Mount On Signal Pole
	+	R3-1	X							WH	No Right Turn Symbol	36	36	9.0	RWM	XI	6080005											Mount On Signal Pole
	+	R6-2L	X							WH	ONE WAY Arrow (Left)	30	36	7.5	RWM	XI	6080005											Mount On Mast Arm
	+	D3-1M	X							GR	Freeway 2900 W	84	18	10.5	F-DA	XI	6080025											Flag Mount On Signal Pole
2	RE 103+16	R5-1	X					12	7	WH	DO NOT ENTER	36	36	9.0	RWM	XI	6080005	2	2 1/2T	30	2							
	+	R5-1A	X							RD	WRONG WAY	42	30	8.8	RWM	XI	6080005											
2	RE 103+92	R3-5ZPR	X					12	7	WH	RIGHT 2 LANES	30	12	2.5	RWM	XI	6080005	1	2 1/2T	13	1							
	+	R3-8RR	X							WH	Double Right Turn Only	30	30	6.3	RWM	XI	6080005											
2	RW 107+20-A	GUIDE	X							GR	1-10 EAST/TUCSON	180	72	90.0	Ext	XI	6080018							3F			Mount Overhead On Frame	
2	RW 107+20-B	GUIDE	X							GR	1-10 WEST/PHOENIX	120	60	50.0	Ext	XI	6080018											Mount Overhead On Frame
2	RW 107+20-C	R3-5FP	X							WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005											Mount On Frame Pole
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005											

**NOTES:**  
1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
2. The Engineer may shift a sign in order to achieve a more desirable location.  
3. Quantities are approximate and for the Contractor's information only.  
\* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
RWM: Regulatory, Warning or Marker  
F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet increment  
Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
WH: White  
BK: Black  
GR: Green  
RD: Red  
YL: Yellow  
BL: Blue  
BR: Brown  
OR: Orange

**STRINGER TYPES:**  
P: Square-tube post  
T: T-section (WT75x9)  
  
**POST TYPES:**  
S: Non-telescoping perforated post  
T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	V. CASTANEDA	4-19			
CHECKED	A. HATHCOCK	4-19			
			SIGN SUMMARY RUTHRAUFF RD SHEET 11 OF 15		
ROUTE	1-10	LOCATION	RUTHRAUFF T1		
TRACS NO. H8480 01C			010-D(213)S		
			DWG NO. T-6.11		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	498	849	

010 PM 252

### SIGN SUMMARY

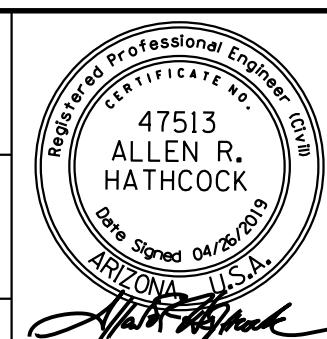
PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED					OVERHEAD		REMARKS	
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER		STRUCTURE TYPE		NUMBER OF LIGHTS
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES			
3	RW 108+19	R4-4	X						WH	BEGIN RIGHT TURN LANE	36	30	7.5	RWM	XI	6080005									Mount On Barrier Per Detail T1
3	RE 109+12	Custom	X					7	WH	TRUCK GUIDE SIGN	120	48	40.0	RWM	XI	6080005	2	2S	24	P	16			Center In Median	
3	RE 110+12	R2-1	X				12	7	WH	SPEED LIMIT (45)	30	36	7.5	RWM	XI	6080005	1	2S	12						
3	RW 110+12	R2-1	X					7	WH	SPEED LIMIT (45)	30	36	7.5	RWM	XI	6080005	1	2S	12					Center In Median	
	-	R2-1	X						WH	SPEED LIMIT (45)	30	36	7.5	RWM	XI	6080005									Back to Back
3	RW 110+28	R2-1	X						WH	SPEED LIMIT (45)	30	36	7.5	RWM	XI	6080005									Mount On Light Pole
3	RE 111+56	R4-4	X				12	7	WH	BEGIN RIGHT TURN LANE	36	30	7.5	RWM	XI	6080005	1	2S	12						
3	RE 112+49	R3-5fP	X						WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005									Mount On Light Pole
	+	R3-5R	X						WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005									
3	RW 114+25	D3-1M	X						GR	Maryvale 2700 W	72	16	8.0	F-DA	XI	6080025									Mount On Mast Arm
3	RE 114+28	R3-4	X					7	WH	No U-Turn Symbol	36	36	9.0	RWM	XI	6080005	1	2S	12						Center In Median
3	RW 114+28	R4-7	X					7	WH	Keep Right Symbol	24	30	5.0	RWM	XI	6080005	1	2S	12						Center In Median
	+	OM2-2aH	X						YL	Type 2 Object Marker Horizontal	24	6	1.0	RWM	XI	6080005									Center In Median
3	RE 115+60	D3-1M	X						GR	Maryvale 2700 W	72	16	8.0	F-DA	XI	6080025									Mount On Mast Arm
3	RE 116+36	OM4-3	X				61	7	RD	Type 4 Object Marker (All Red)	18	18	2.3	RWM	XI	6080005	1	2S	12	P	12				
	+	OM4-3	X						RD	Type 4 Object Marker (All Red)	18	18	2.3	RWM	XI	6080005	1	2S	12						
	+	OM4-3	X						RD	Type 4 Object Marker (All Red)	18	18	2.3	RWM	XI	6080005	1	2S	12						
3	RE 116+53	W14-1	X				303	7	YL	DEAD END	30	30	6.3	RWM	XI	6080005	1	2S	12						
3	RW 116+73	M2-1	X				12	7	BL	JCT	24	12	2.0	RWM	XI	6080005	1	2S	14						
	+	M1-1A	X						BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005									
	+	M5-101	X						BL	1/4 MILE	24	18	3.0	RWM	XI	6080005									

**NOTES:**  
1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
2. The Engineer may shift a sign in order to achieve a more desirable location.  
3. Quantities are approximate and for the Contractor's information only.  
\* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
RWM: Regulatory, Warning or Marker  
F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
F-Dem: Flat-sheet aluminum with demountable characters  
Ext: Aluminum extrusions  
Incr: Aluminum sheet overlaid  
Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
WH: White  
BK: Black  
GR: Green  
RD: Red  
YL: Yellow  
BL: Blue  
BR: Brown  
OR: Orange

**STRINGER TYPES:**  
P: Square-tube post  
T: T-section (WT75x9)  
  
**POST TYPES:**  
S: Non-telescoping perforated post  
T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
<b>Kimley»Horn</b>		SIGN SUMMARY RUTHRAUFF RD SHEET 12 OF 15		
ROUTE	LOCATION	RUTHRAUFF T1		DWG NO. T-6.12
TRACS NO. H8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	499	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED					OVERHEAD		REMARKS					
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER		STRUCTURE TYPE		NUMBER OF LIGHTS				
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES				TYPE	TOTAL LENGTH (FT)		
3	RW 117+59	R3-5fP	X					12	7	WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005	1	2S	13									
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005												
3	RE 117+99	D14-101	X							WH	ADOPT A HIGHWAY				F-DA	XI													To Be Installed By PCDOT
3	RW 120+70	Custom	X					12	7	WH	TRUCK GUIDE SIGN	120	48	40.0	RWM	XI	6080005	2	2S	24	P	16							
3	HS 16+23	M1-1A	X					12	7	BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005	1	2S	13									
	+	M6-1L	X							BL	Left Directional Arrow	24	18	3.0	RWM	XI	6080005												
3	HS 16+88	W1-7	X					12	7	YL	Double-headed Arrow	48	24	8.0	RWM	XI	6080005	2	2S	24	P	14							
	+	W1-8L	X							YL	Left Chevron	18	24	3.0	RWM	XI	6080005	1	2S	12									
	+	W1-8R	X							YL	Right Chevron	18	24	3.0	RWM	XI	6080005	1	2S	12									
3	HN 18+31	M1-1A	X					12	7	BL	INTERSTATE 10 (Arizona)	24	24	4.0	RWM	XI	6080005	1	2S	13									
	+	M6-1R	X							BL	Right Directional Arrow	24	18	3.0	RWM	XI	6080005												
3	HN 24+18	R2-1	X					12	7	WH	SPEED LIMIT (30)	24	30	5.0	RWM	XI	6080005	1	2S	12									
3	HN 26+26	Custom	X					12	7	GR	TRUCK GUIDE SIGN	72	36	18.0	RWM	XI	6080005	2	2S	24	P	10							
												24																	
3	LN 11+71	R1-1	X					12	7	RD	STOP	36	36	9.0	RWM	XI	6080005	1	2S	12									
	+	D3-1SN	X							GR	Davis Ave 2800 W	36	6	1.5	F-DA	XI	6080025												
	+	D3-1SN	X							GR	Chester Way 4900 N	42	9	2.6	F-DA	XI	6080025												
3	LS 12+78	R2-1	X					12	7	WH	SPEED LIMIT (25)	24	30	5.0	RWM	XI	6080005	1	2S	12									
3	LS 15+12	W1-1R	X					12	7	YL	Right Turn Symbol	30	30	6.3	RWM	XI	6080005	1	2S	12									
		W13-1P	X							YL	(15) M.P.H.	18	18	2.3	RWM	XI	6080005												
3	LS 15+59	R3-5fP	X					12	7	WH	RIGHT LANE	30	12	2.5	RWM	XI	6080005	1	2S	13									
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	XI	6080005												
3	LN 16+12	R2-1	X					12	7	WH	SPEED LIMIT (25)	24	30	5.0	RWM	XI	6080005	1	2S	12									

**NOTES:**  
 1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
 2. The Engineer may shift a sign in order to achieve a more desirable location.  
 3. Quantities are approximate and for the Contractor's information only.  
 \* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
 RWM: Regulatory, Warning or Marker  
 F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet overlaid  
 Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
 WH: White  
 BK: Black  
 GR: Green  
 RD: Red  
 YL: Yellow  
 BL: Blue  
 BR: Brown  
 OR: Orange

**STRINGER TYPES:**  
 P: Square-tube post  
 T: T-section (WT75x9)  
  
**POST TYPES:**  
 S: Non-telescoping perforated post  
 T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
			SIGN SUMMARY RUTHRAUFF RD SHEET 13 OF 15	DWG NO. T-6.13
ROUTE	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 01C		010-D(213)S		
OF				

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	500	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED				OVERHEAD		REMARKS					
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER			STRUCTURE TYPE	NUMBER OF LIGHTS			
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES				TYPE	TOTAL LENGTH (FT)	
3	LS 16+93	W1-6R	X					12	7	YL	Right Arrow	48	24	8.0	RWM	XI	6080005	1	2S	12								
3	LS 17+04	R1-1	X					12	7	RD	STOP	36	36	9.0	RWM	XI	6080005	1	2S	12								
	+	D3-1SN	X							GR	Chester Way 4900 N	36	6	1.5	F-DA	XI	6080025											
	+	D3-1SN	X							GR	Maryvale Ave 2700 W	42	9	2.6	F-DA	XI	6080025											
3	LS 17+53	R4-7	X						7	WH	Keep Right Symbol	24	30	5.0	RWM	XI	6080005	1	2S	12							Center In Median	
		OM2-2aH	X							YL	Type 2 Object Marker Horizontal	24	6	1.0	RWM	XI	6080005										Center In Median	
3	LS 17+69	W1-6L	X					12	7	YL	Left Arrow	48	24	8.0	RWM	XI	6080005	1	2S	12								
3	LN 18+64	W1-1L	X					12	7	YL	Left Turn Symbol	30	30	6.3	RWM	XI	6080005	1	2S	13								
	+	W13-1P	X							YL	(15) MPH	18	18	2.3	RWM	XI	6080005											
3	LN 19+18	R4-7	X						7	WH	Keep Right Symbol	24	30	5.0	RWM	XI	6080005	1	2S	12							Center In Median	
	+	OM2-2aH	X							YL	Type 2 Object Marker Horizontal	24	6	1.0	RWM	XI	6080005										Center In Median	
3	LN 19+19	D3-1M	X							GR	Ruthrauff Rd 4800 N	72	16	8.0	F-DA	XI	6080025										Mount On Mast Arm	
3	LN 19+44	R9-3	X							WH	NO PEDESTRIAN CROSSING	18	18	2.3	RWM	XI	6080005										Mount On Signal Pole	
	+	R9-3bR	X							WH	USE CROSSWALK (RIGHT ARROW)	18	12	1.5	RWM	XI	6080005										Mount On Signal Pole	
3	MS 20+63	R9-3	X							WH	NO PEDESTRIAN CROSSING	18	18	2.3	RWM	XI	6080005										Mount On Signal Pole	
	+	R9-3bL	X							WH	USE CROSSWALK (LEFT ARROW)	18	12	1.5	RWM	XI	6080005										Mount On Signal Pole	
3	MS 20+75	D3-1M	X							GR	Ruthrauff Rd 4800 N	72	16	8.0	F-DA	XI	6080025										Mount On Mast Arm	
3	MS 21+82	R2-1	X							WH	SPEED LIMIT (25)	24	30	5.0	RWM	XI	6080005	1	2S	12								
3	MN 23+47	R2-1	X							WH	SPEED LIMIT (25)	24	30	5.0	RWM	XI	6080005	1	2S	12								
3	MS 24+01	R1-1	X							RD	STOP	36	36	9.0	RWM	XI	6080005	1	2S	12								
	+	D3-1SN	X							GR	Violet Ave 4700 N	36	6	1.5	F-DA	XI	6080025											
	+	D3-1SN	X							GR	Maryvale Ave 2700 W	42	9	2.6	F-DA	XI	6080025											

**NOTES:**  
 1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
 2. The Engineer may shift a sign in order to achieve a more desirable location.  
 3. Quantities are approximate and for the Contractor's information only.  
 \* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
 RWM: Regulatory, Warning or Marker  
 F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet overlaid  
 Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
 WH: White  
 BK: Black  
 GR: Green  
 RD: Red  
 YL: Yellow  
 BL: Blue  
 BR: Brown  
 OR: Orange

**STRINGER TYPES:**  
 P: Square-tube post  
 T: T-section (WT75x9)  
**POST TYPES:**  
 S: Non-telescoping perforated post  
 T: Telescoping perforated post

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
			SIGN SUMMARY RUTHRAUFF RD SHEET 14 OF 15	DWG NO. T-6.14
ROUTE	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 01C			010-D(213)S	OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	501	849	

010 PM 252

### SIGN SUMMARY

PLAN SHEET NUMBER	SIGN NUMBER	SIGN CODE	WORK					OFFSET (FT)	MOUNTING HEIGHT	BACKGROUND COLOR	PANEL						GROUND MOUNTED				OVERHEAD		REMARKS		
			NEW	REPLACE PANEL	RELOCATE PANEL	EXISTING					LEGEND	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	TYPE	SHEETING TYPE	BID ITEM NUMBER	FOUNDATIONS	POSTS		STRINGER			STRUCTURE TYPE	NUMBER OF LIGHTS
						MODIFY LEGEND	REMOVE EXISTING												EXST TO REMAIN	TYPE	TOTAL LENGTH (FT)*	NEW SLIPBASES			
3	MS 24+58	WI-7	X						YL	Double-headed Arrow	48	24	8.0	RWM	XI	6080005	2	2S	12		P	14			Offset 9' From Exist BOC and
		WI-8L	X						YL	Left Chevron	18	24	3.0	RWM	XI	6080005	1	2S	12						Center In Between Residential
		WI-8R	X						YL	Right Chevron	18	24	3.0	RWM	XI	6080005	1	2S	12						Driveways

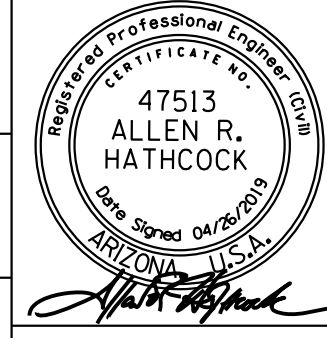
**NOTES:**  
 1. The Contractor shall verify post lengths and elevations for the Engineer's approval.  
 2. The Engineer may shift a sign in order to achieve a more desirable location.  
 3. Quantities are approximate and for the Contractor's information only.  
 \* The post length shall be measured from the top of the concrete post foundation to the top of the post.

**PANEL TYPES:**  
 RWM: Regulatory, Warning or Marker  
 F-DA: Flat-sheet aluminum with direct-applied or silk-screened characters  
 F-Dem: Flat-sheet aluminum with demountable characters  
 Ext: Aluminum extrusions  
 Incr: Aluminum sheet increment  
 Over: Overhead (New overlaid extrusions)

**BACKGROUND COLOR:**  
 WH: White  
 BK: Black  
 GR: Green  
 RD: Red  
 YL: Yellow  
 BL: Blue  
 BR: Brown  
 OR: Orange

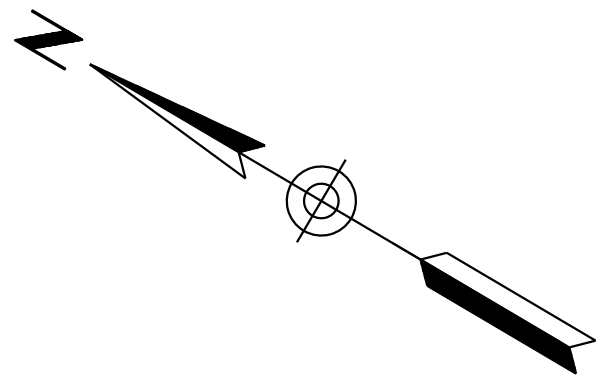
**STRINGER TYPES:**  
 P: Square-tube post  
 T: T-section (WT75x9)

**POST TYPES:**  
 S: Non-telescoping perforated post  
 T: Telescoping perforated post

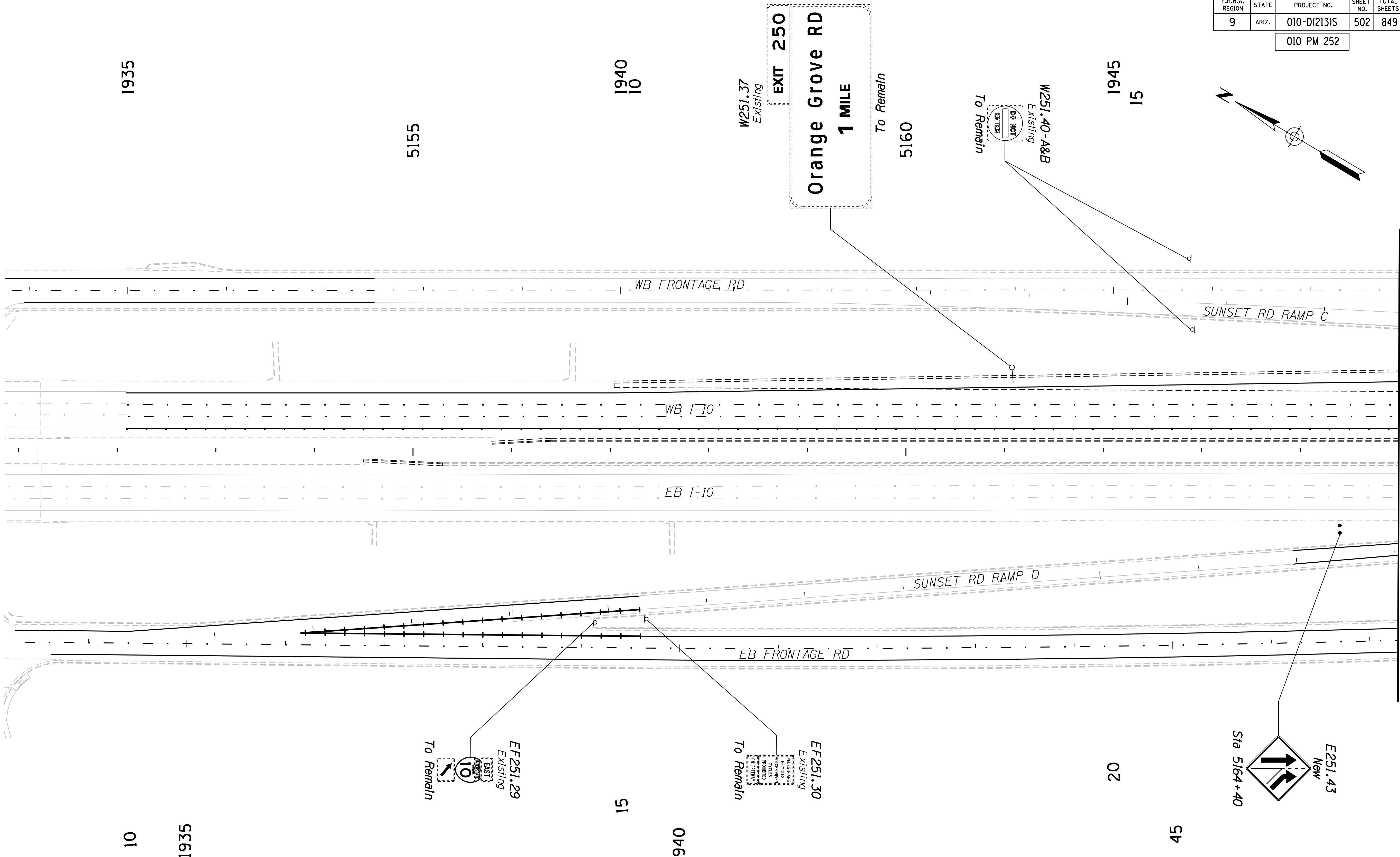
DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	4-19		
CHECKED	A. HATHCOCK	4-19		
<b>Kimley»Horn</b>		SIGN SUMMARY RUTHRAUFF RD SHEET 15 OF 15		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-6.15
TRACS NO.	H8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	502	849	

010 PM 252



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

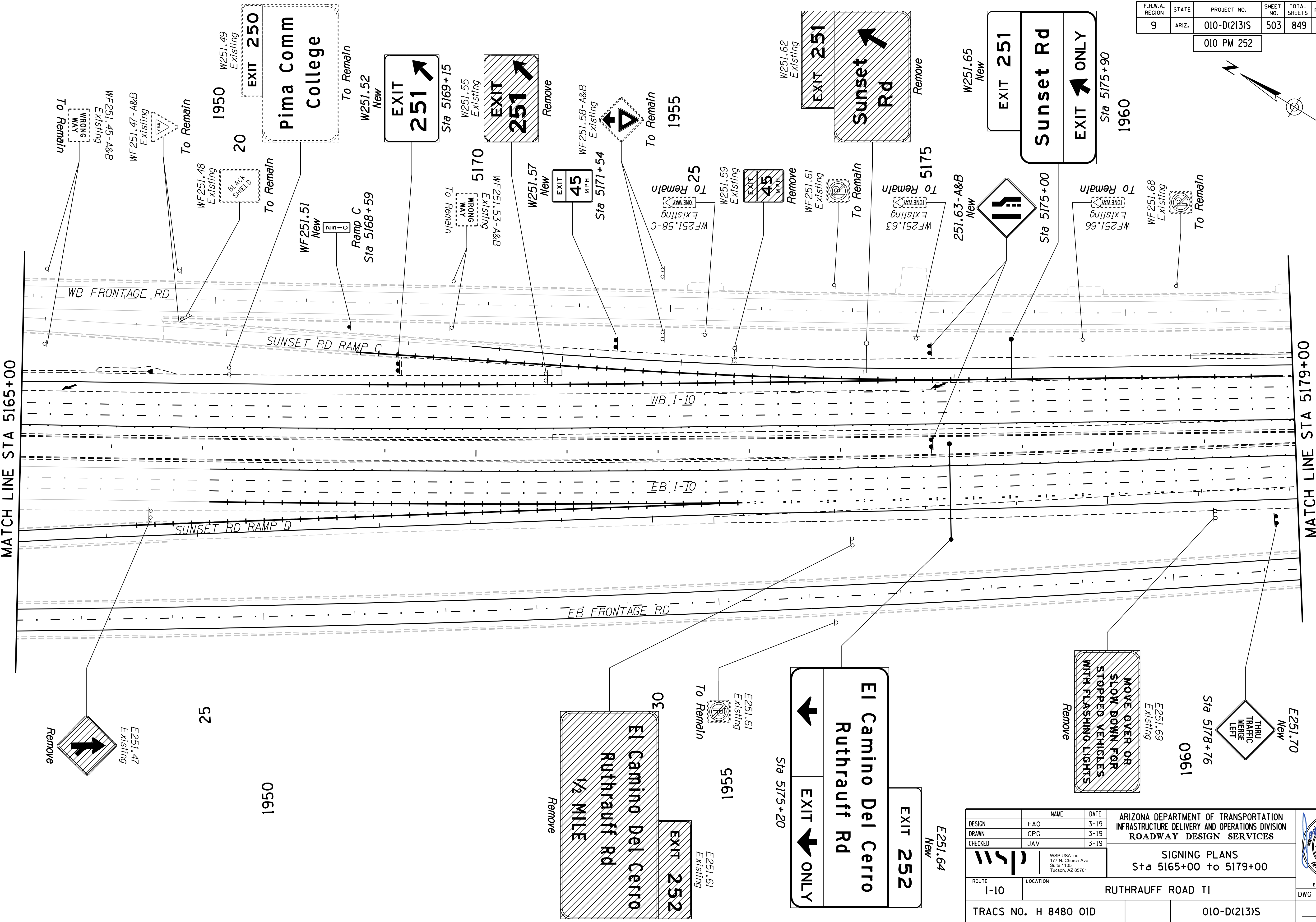
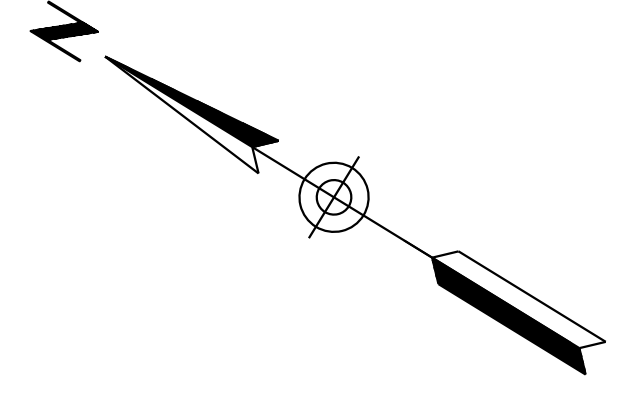


MATCH LINE STA 5165+00

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS Sta 5151+00 to 5165+00	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	503	849	

010 PM 252

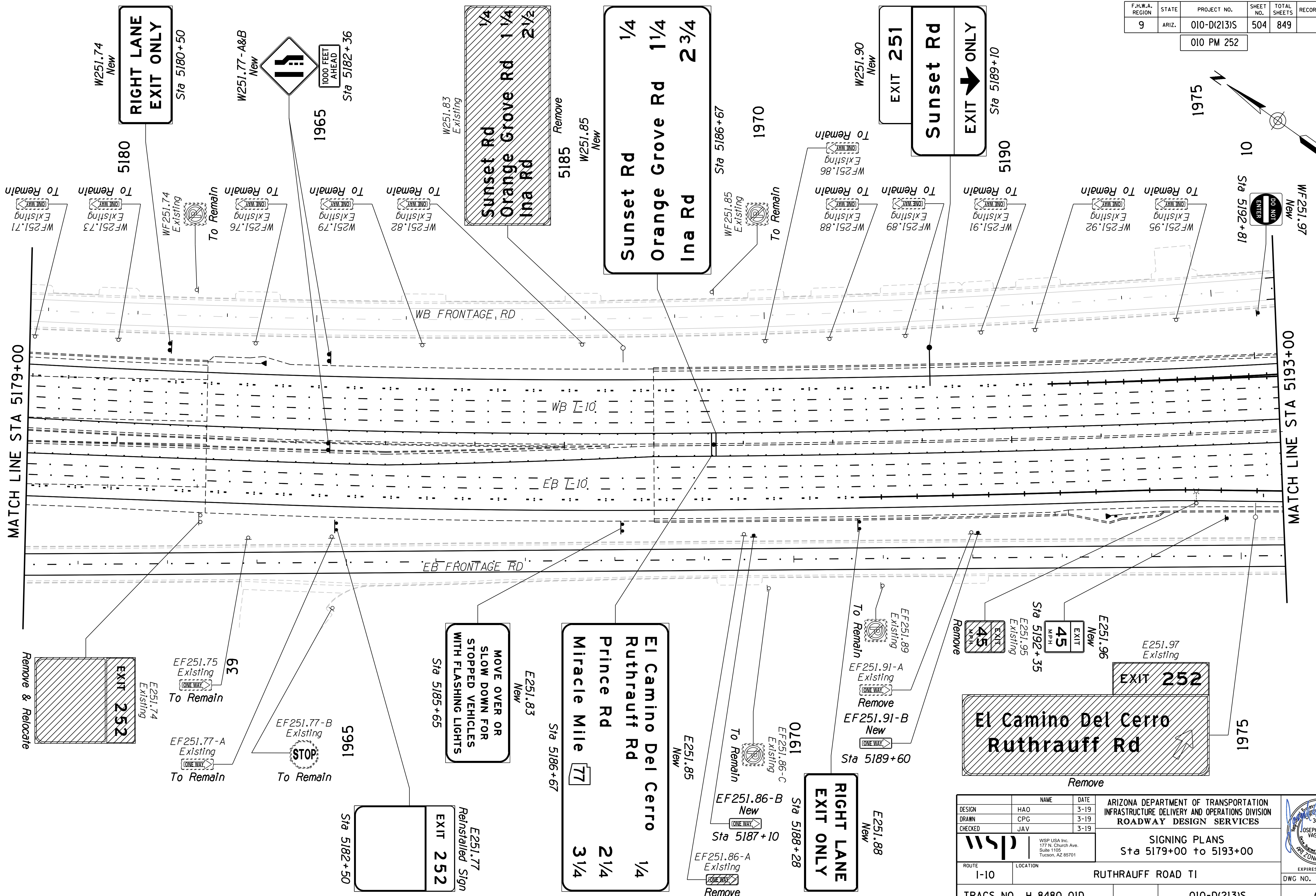
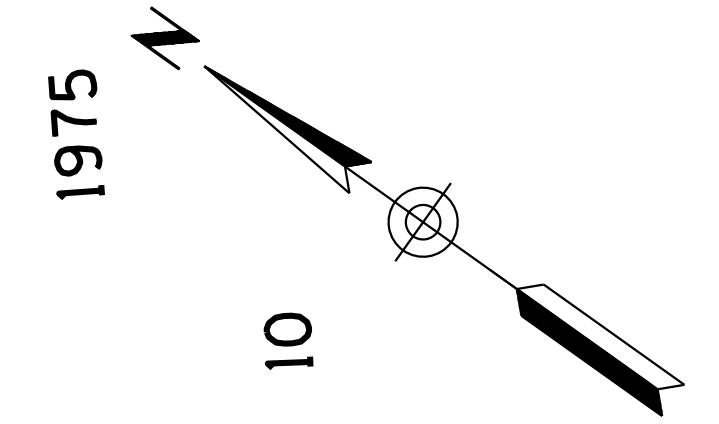


DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_

DESIGN	HAO	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	3-19			
CHECKED	JAV	3-19			
			WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S		DWG NO. T-7.02	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	504	849	

010 PM 252

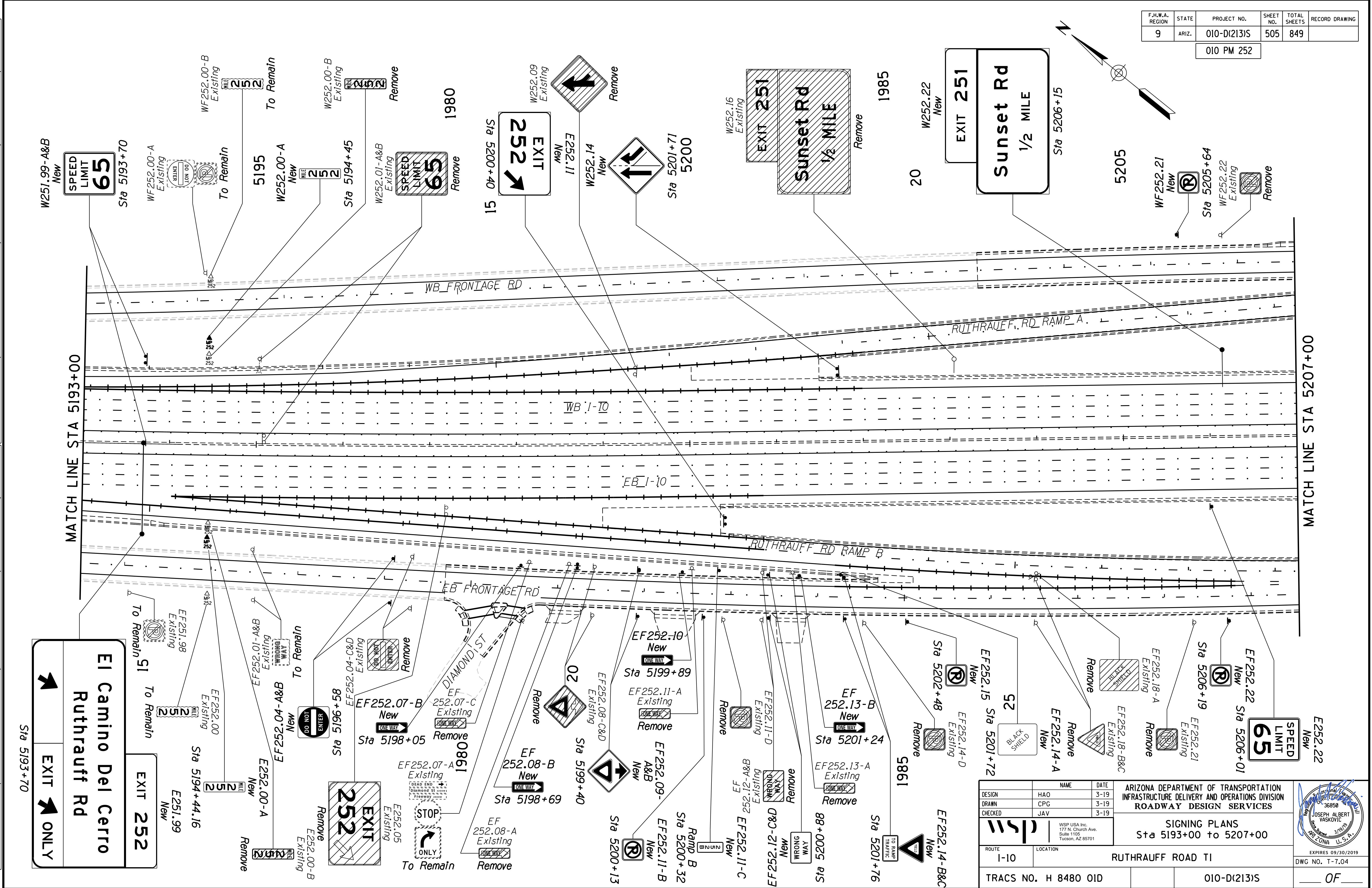
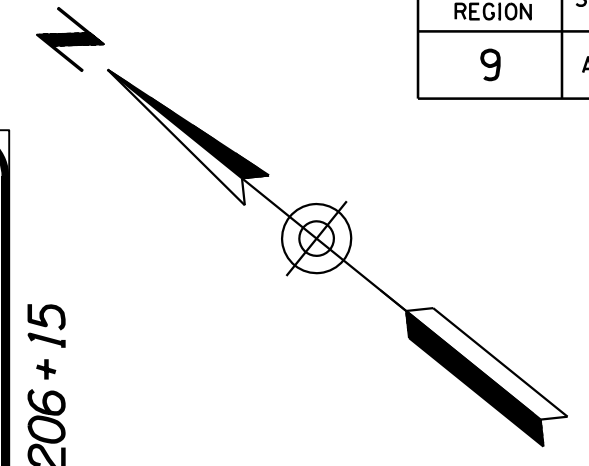


DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JAV	DATE	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS Sta 5179+00 to 5193+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			EXPIRES 09/30/2019
TRACS NO.	H 8480 01D		010-D(213)S		DWG NO. T-7.03	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	505	849	

010 PM 252



MATCH LINE STA 5193+00

MATCH LINE STA 5207+00

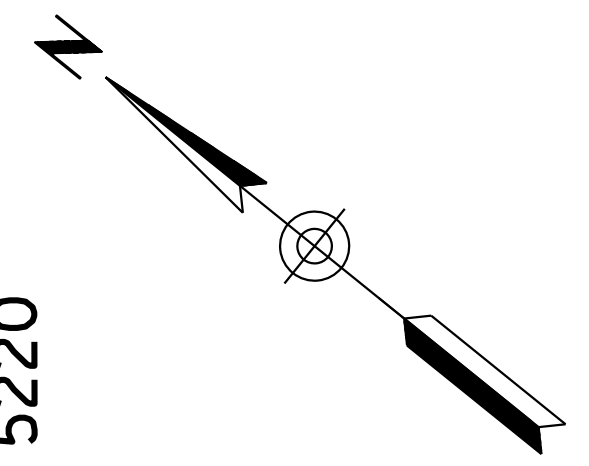
**El Camino Del Cerro**  
Ruthrauff Rd

EXIT 252 ONLY

DESIGN	HAO	DATE	3-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		<b>SIGNING PLANS</b> Sta 5193+00 to 5207+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 09/30/2019 DWG NO. T-7.04	
TRACS NO. H 8480 01D			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	506	849	

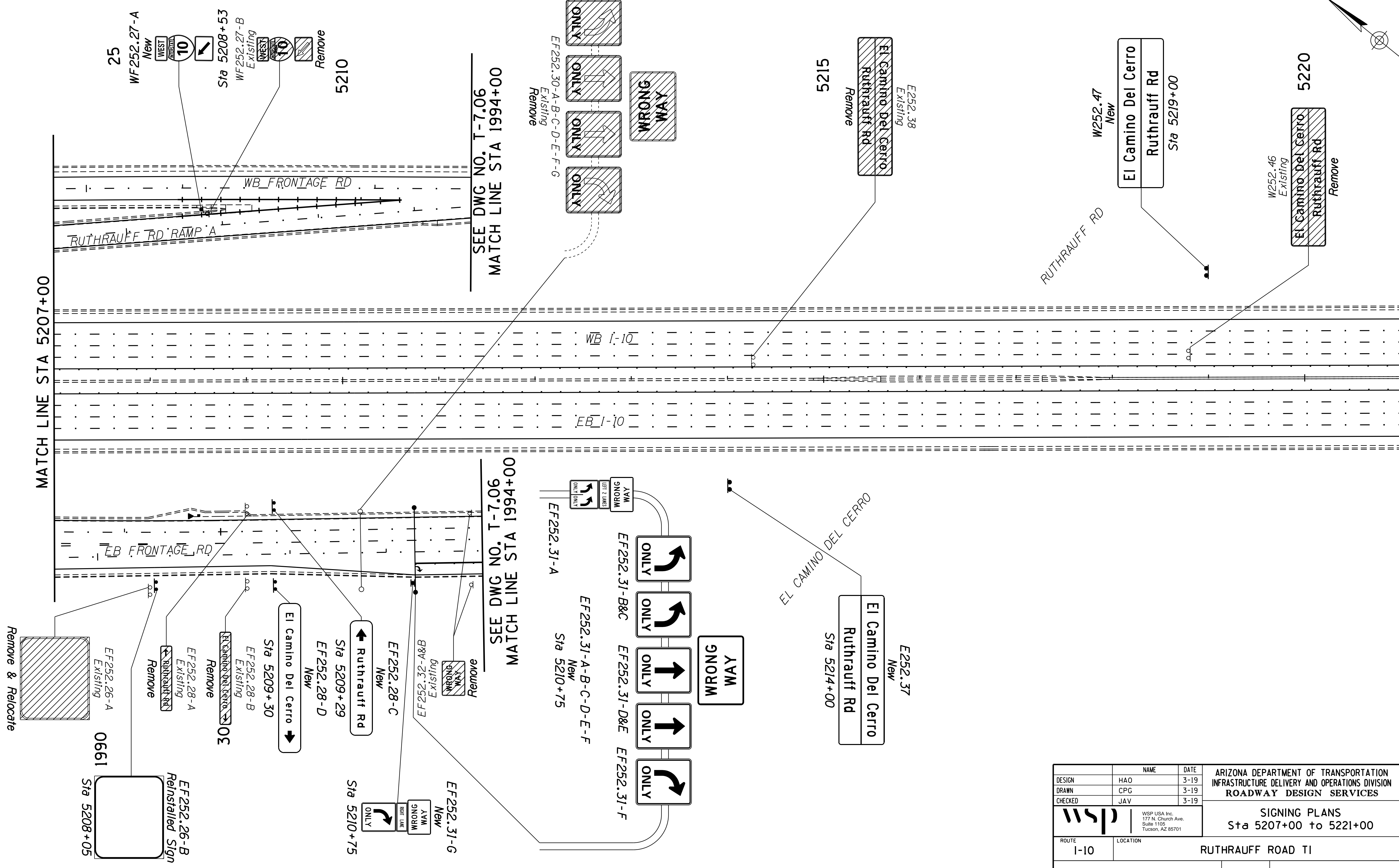
010 PM 252



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

MATCH LINE STA 5207+00

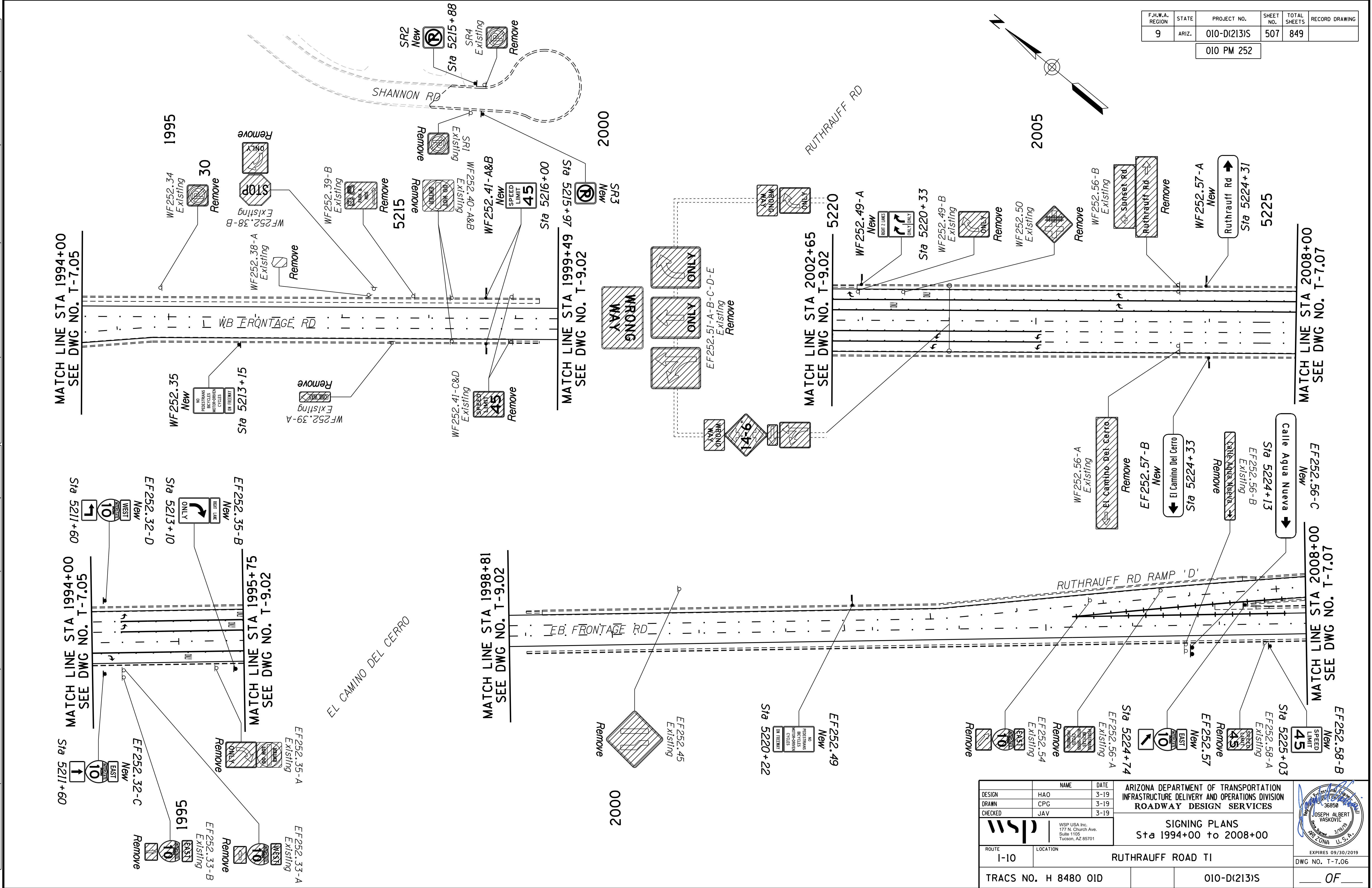
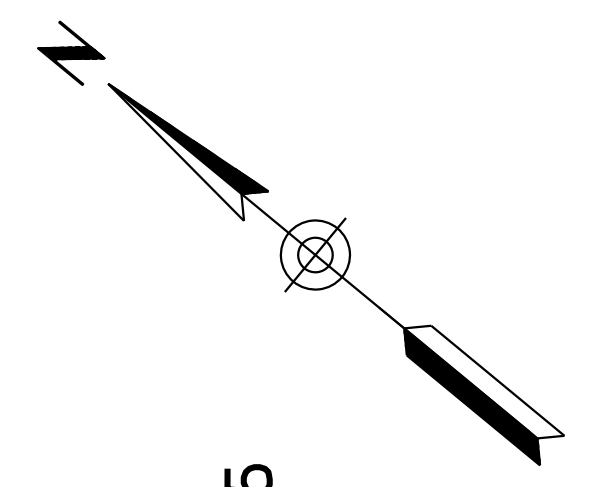
MATCH LINE STA 5221+00



DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	CPG	DATE	3-19			
CHECKED	JAV	DATE	3-19			
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS Sta 5207+00 to 5221+00		
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI			
TRACS NO.	H 8480 01D	PROJECT NO.	010-D(213)S			
DATE	Tue 19 Mar 2019, 12:03:42		EXPIRES	09/30/2019	DWG NO.	T-7.05
					OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	507	849	

010 PM 252



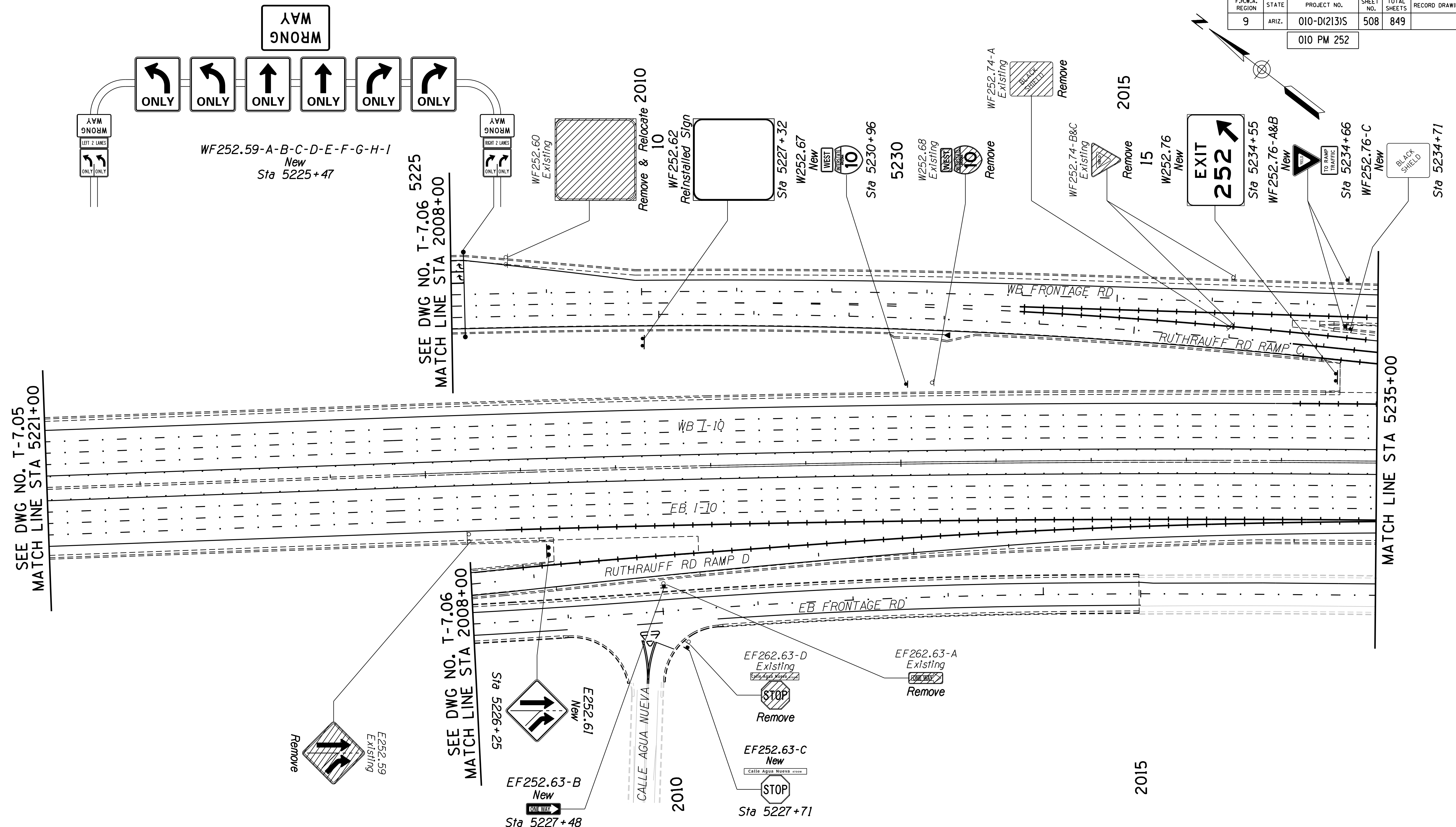
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS Sta 1994+00 to 2008+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S		DWG NO. T-7.06	

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

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	508	849	

010 PM 252

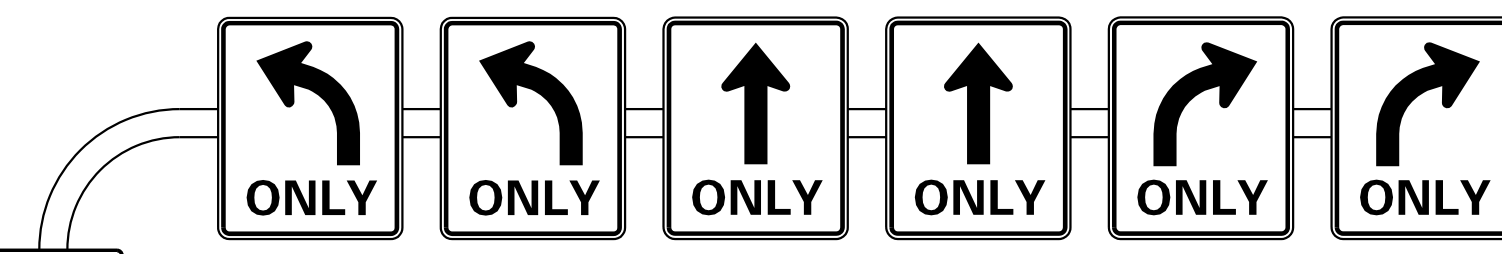


SEE DWG NO. T-7.05  
MATCH LINE STA 5221+00

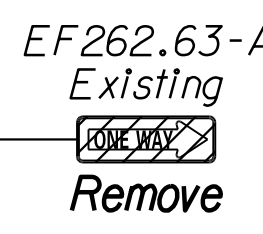
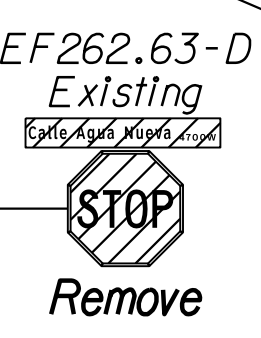
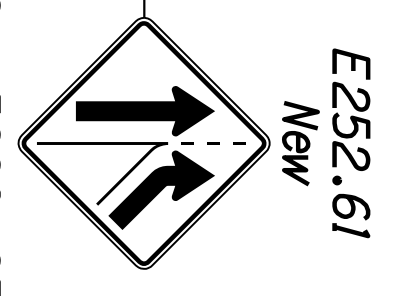
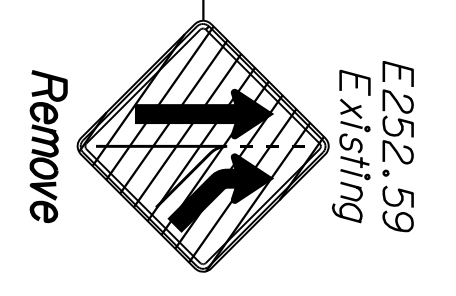
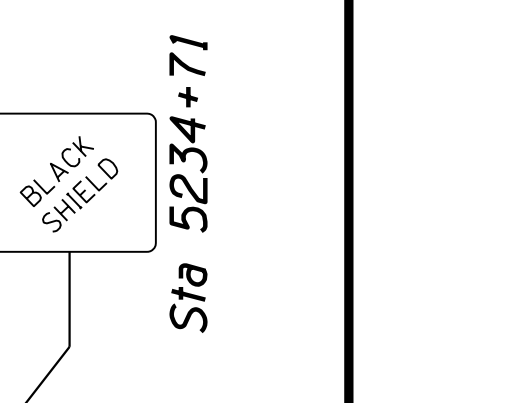
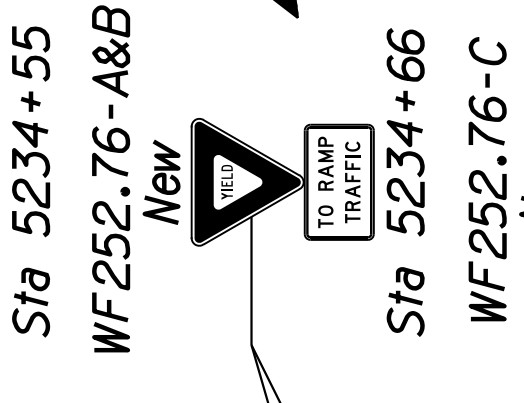
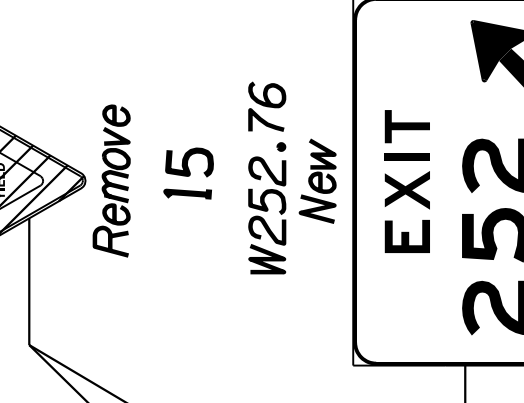
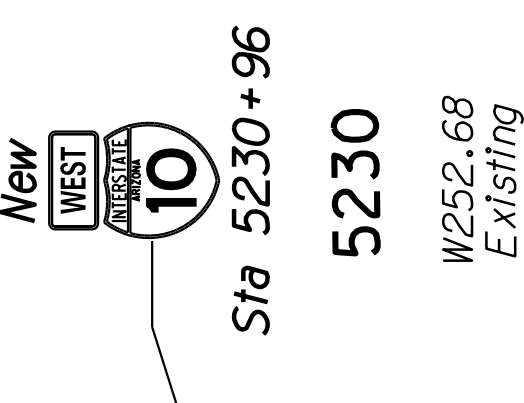
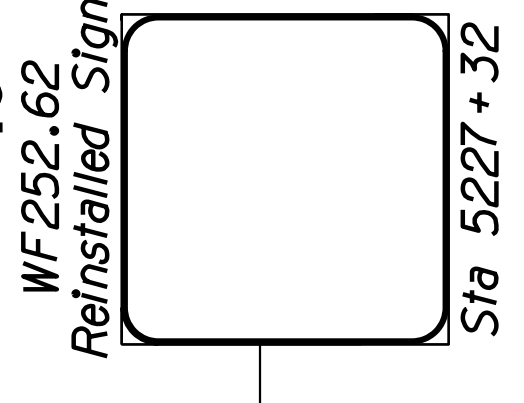
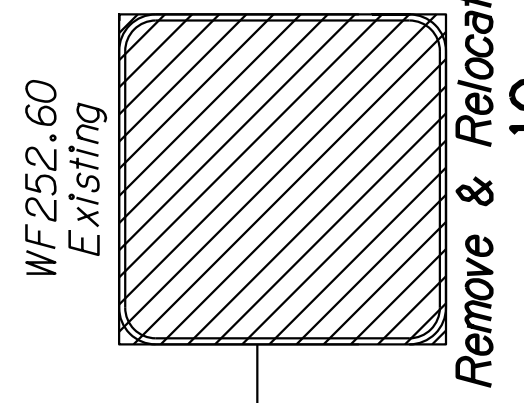
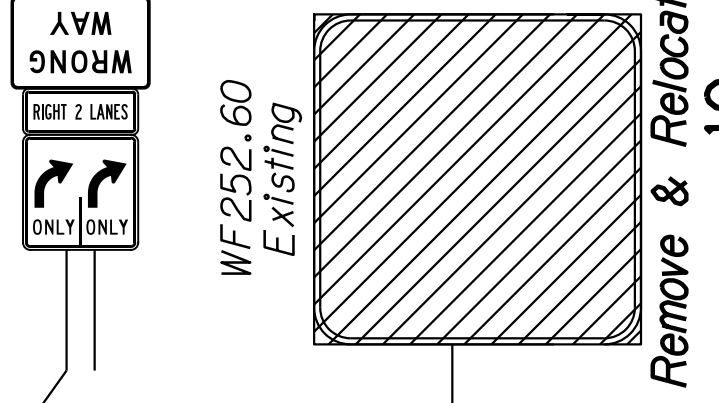
SEE DWG NO. T-7.06  
MATCH LINE STA 2008+00

SEE DWG NO. T-7.06  
MATCH LINE STA 2008+00

MATCH LINE STA 5235+00



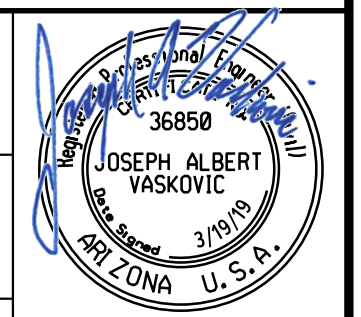
WF252.59-A-B-C-D-E-F-G-H-I  
New  
Sta 5225+47



DESIGN	NAME	DATE
HAO	HAO	3-19
CPC	CPC	3-19
JAV	JAV	3-19

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

SIGNING PLANS  
Sta 5221+00 to 5235+00



ROUTE	LOCATION
I-10	RUTHRAUFF ROAD TI

EXPIRES 09/30/2019  
DWG NO. T-7.07

TRACS NO. H 8480 01D

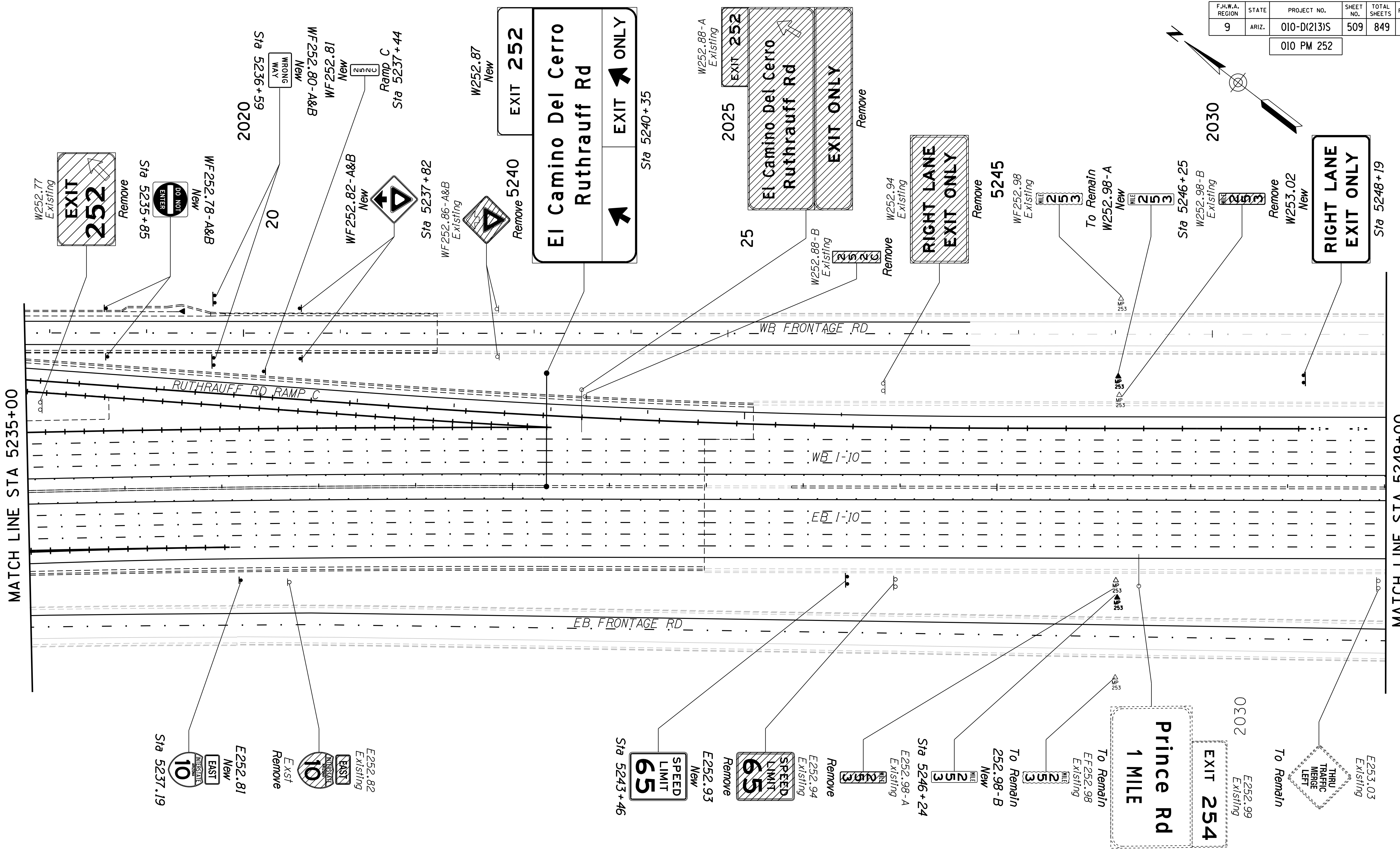
010-D(213)S

OF



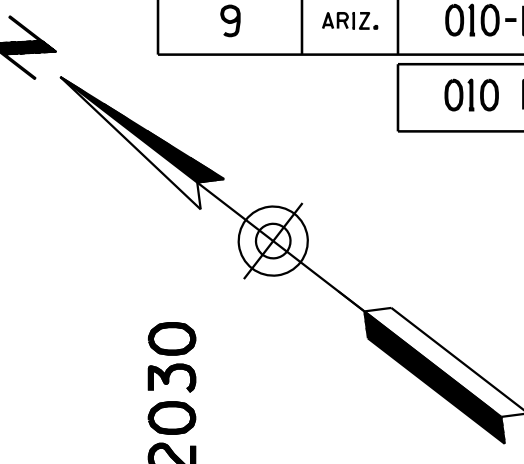
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	509	849	

010 PM 252



MATCH LINE STA 5235+00

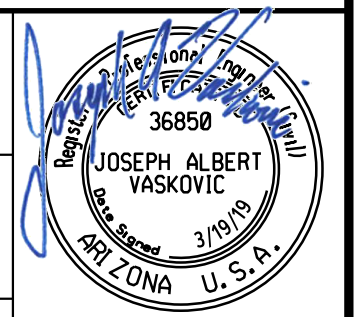
MATCH LINE STA 5249+00



NAME	DATE
DESIGN HAO	3-19
DRAWN CPG	3-19
CHECKED JAV	3-19

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

SIGNING PLANS  
Sta 5235+00 to 5249+00

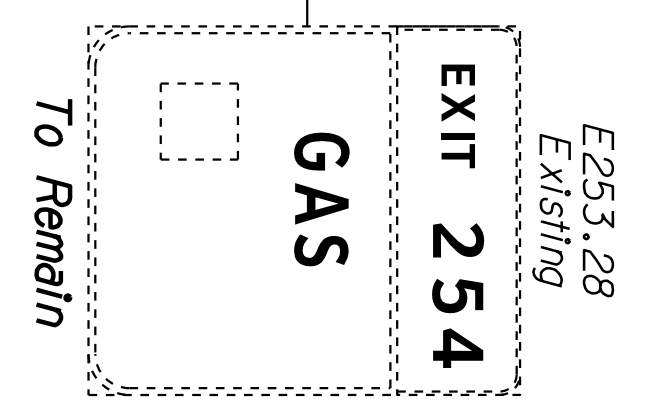
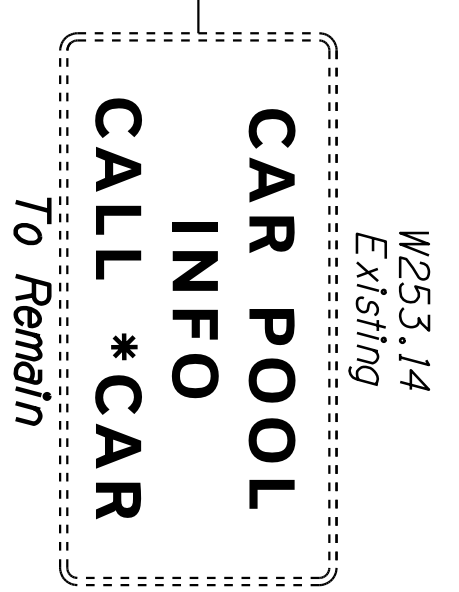
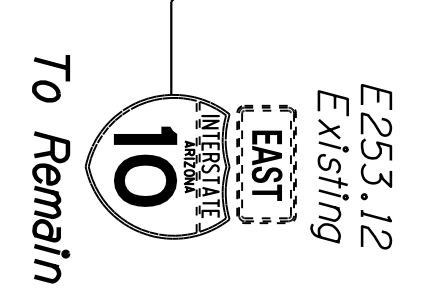
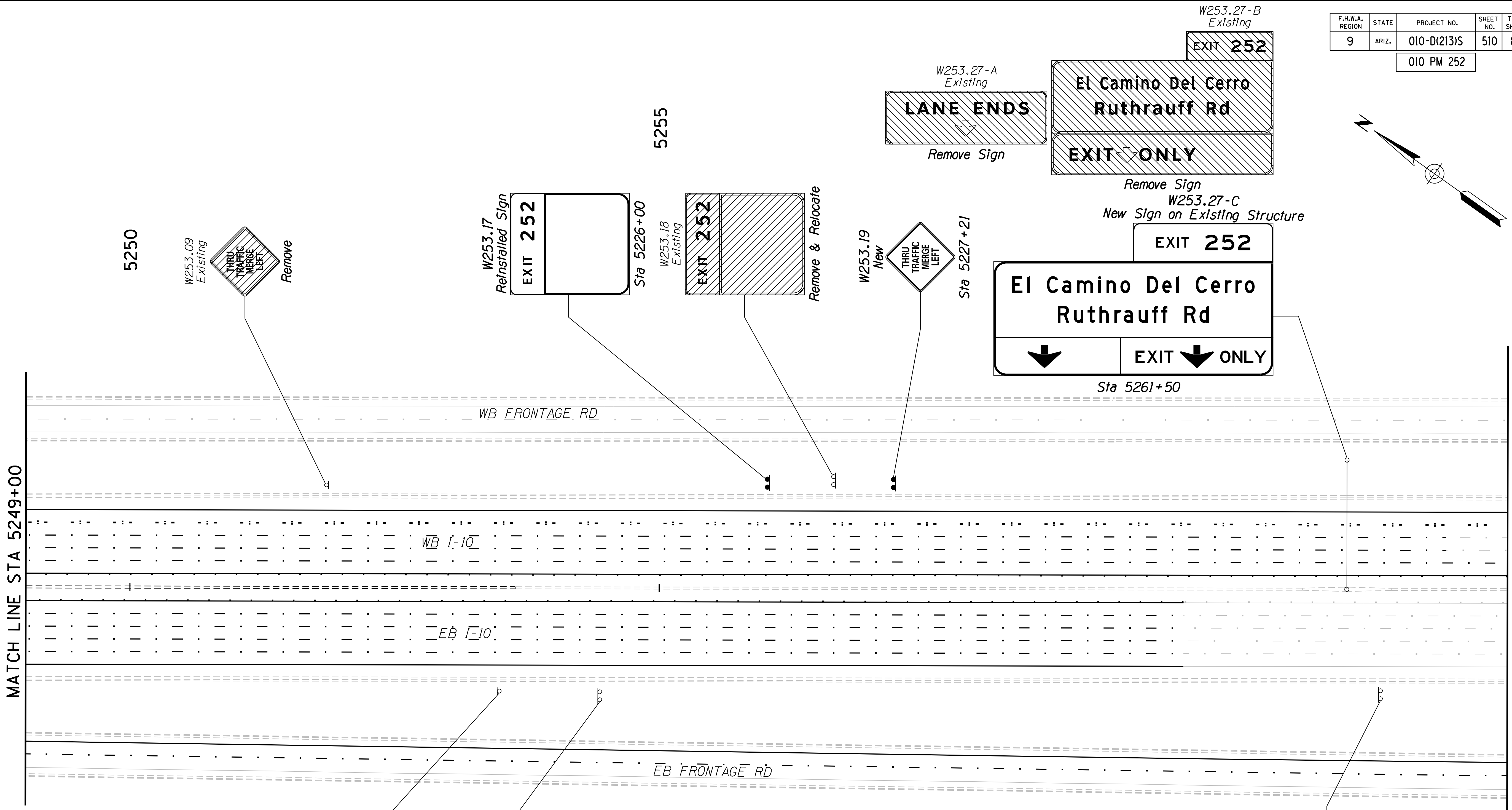
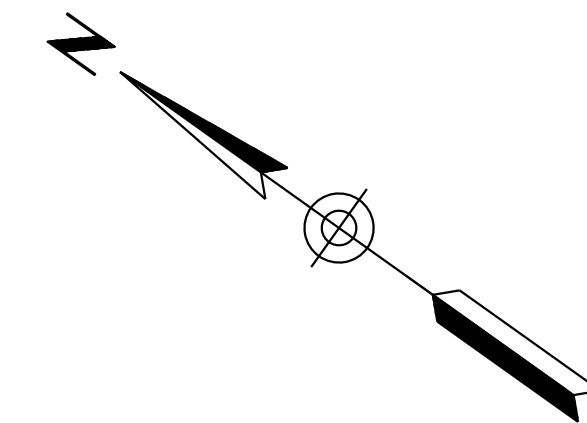


ROUTE I-10	LOCATION RUTHRAUFF ROAD TI
------------	----------------------------

TRACS NO. H 8480 01D	010-D(213)S	OF
----------------------	-------------	----

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	510	849	

010 PM 252



DESIGN	HAO	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	JAV	DATE	3-19
<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>			
<b>SIGNING PLANS</b> <b>Sta 5249+00 to 5263+00</b>			
ROUTE	LOCATION		
I-10	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D		010-D(213)S	

WSP USA Inc.  
177 N. Church Ave.  
Suite 1105  
Tucson, AZ 85701

EXPIRES 09/30/2019  
DWG NO. T-7.09

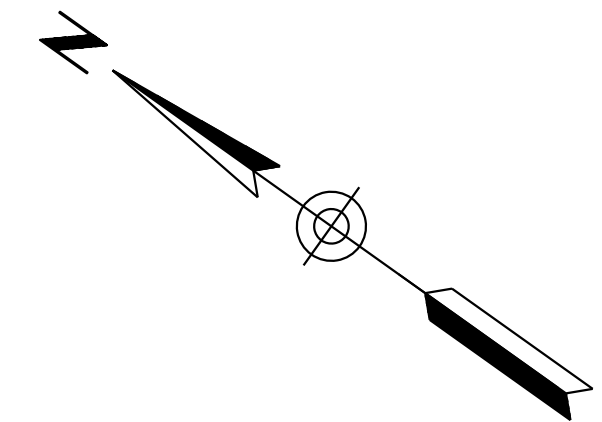
JOSEPH ALBERT VASKOVIC  
36850  
P.E. REG. NO. 37890  
STATE OF ARIZONA U.S.A.

OF

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

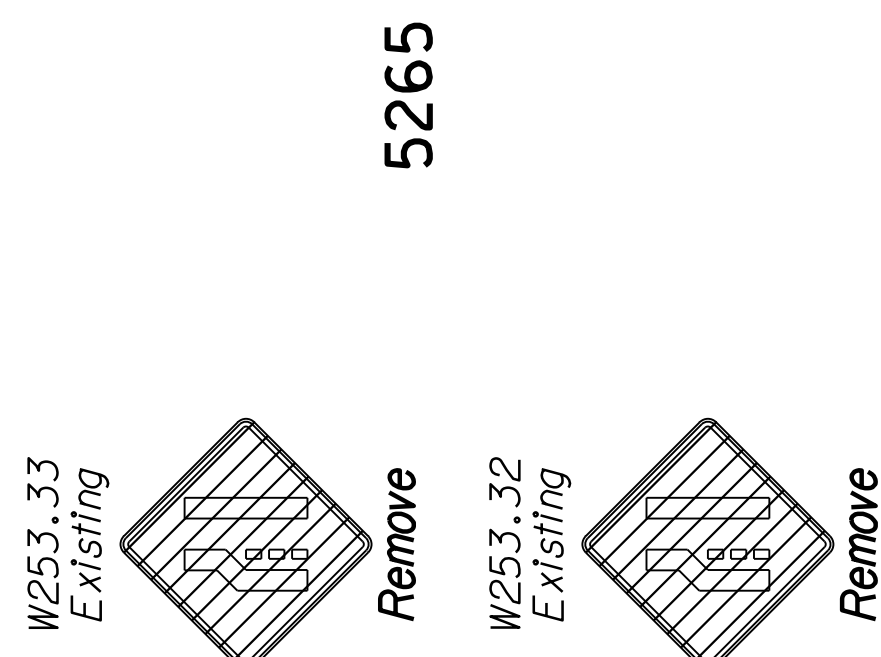
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	511	849	

010 PM 252



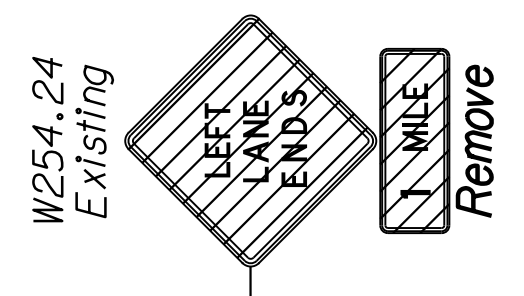
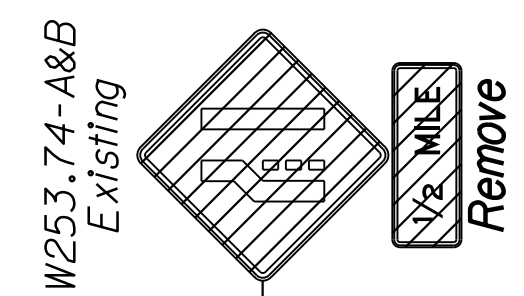
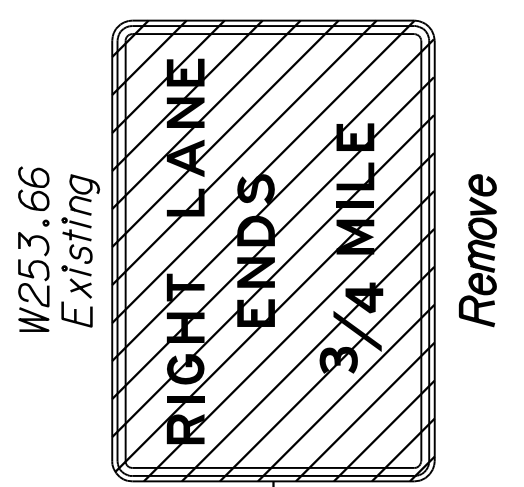
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS SURVEY NO. DATE LOCATION REVISIONS FINISHED PLANS DATE

W253.31  
 Existing  
**CAR POOL  
 INFO  
 CALL \*CAR**  
 To Remain



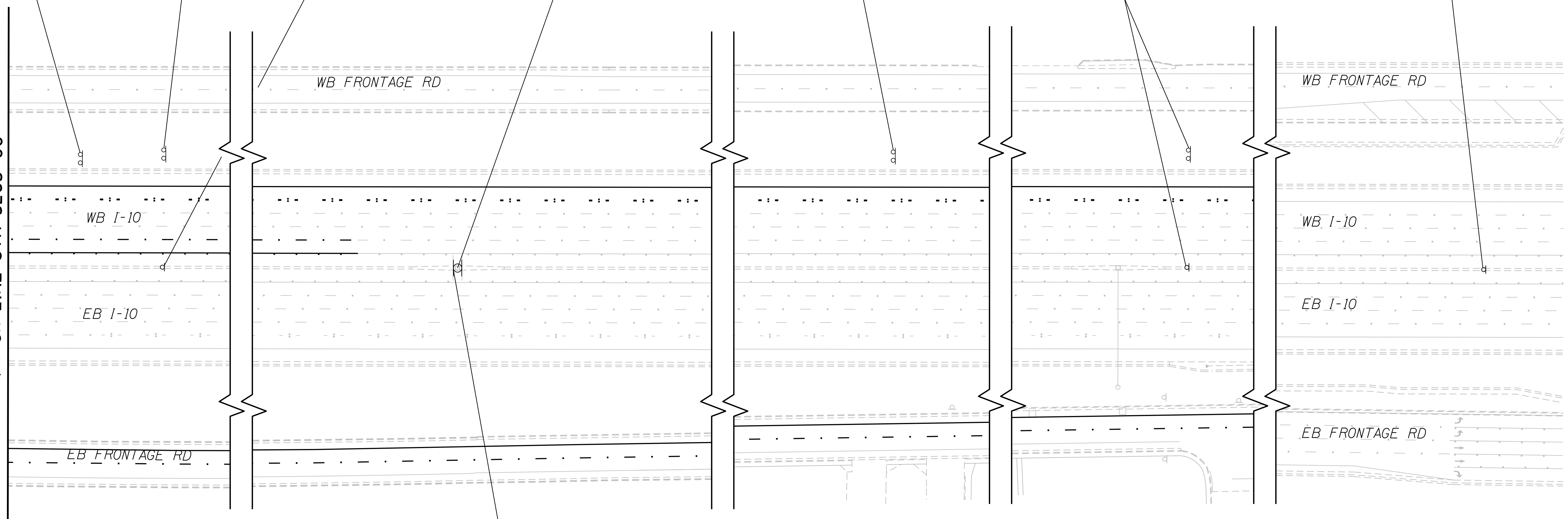
5265

W253.43  
 Existing  
**El Camino Del Cerro 1/2**  
**Ruthrauff Rd 1 1/2**  
**Sunset Rd 1 1/2**  
**Orange Grove Rd 2 1/2**  
 To Remain



5310

MATCH LINE STA 5263+00

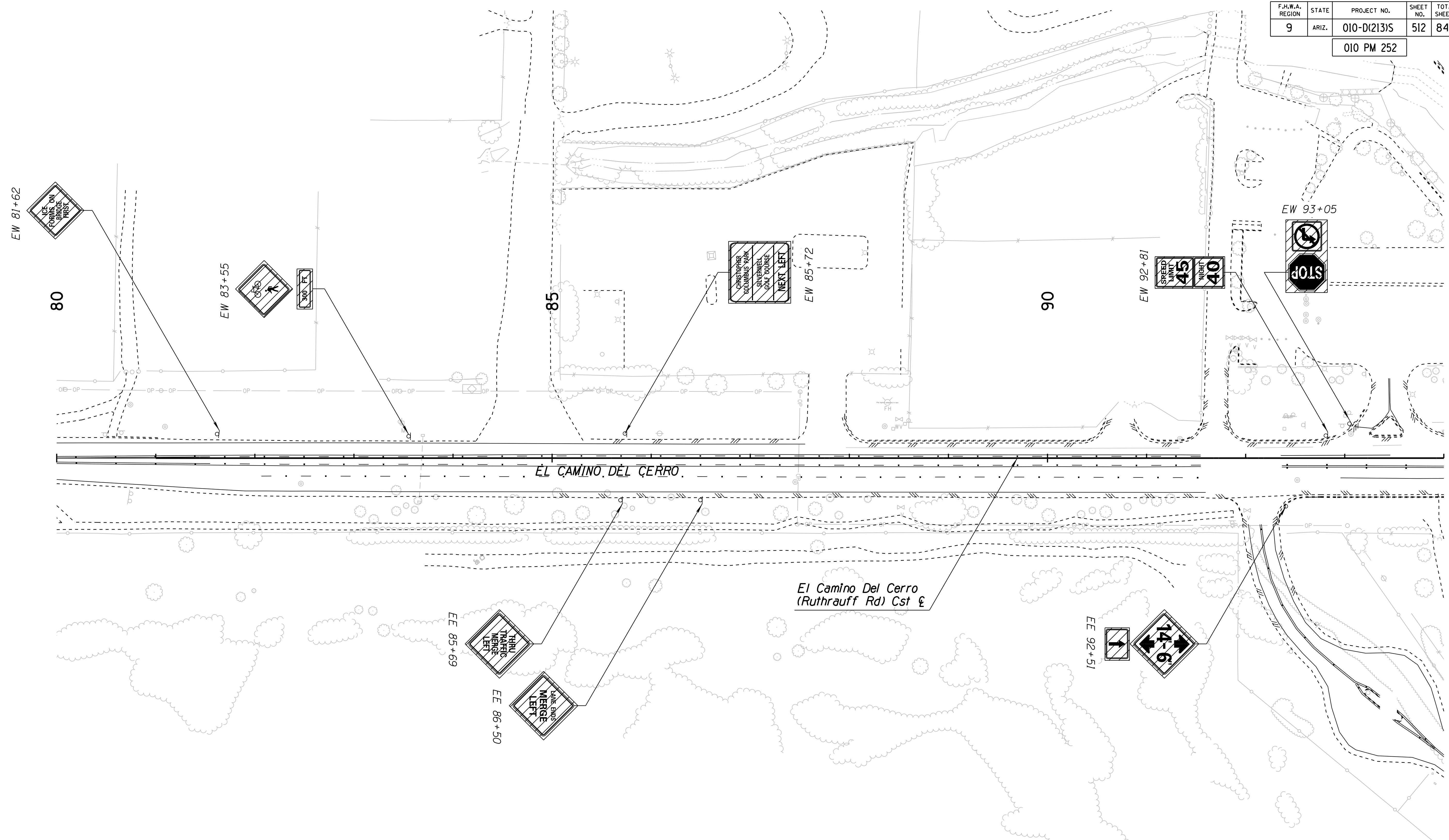
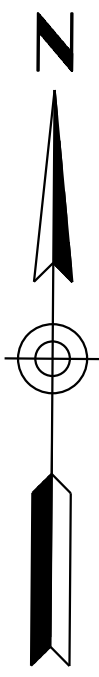


E253.43  
 Existing  
**Prince Rd 1/2**  
**77 Miracle Mile 1 1/2**  
**Grant Rd 2 1/2**  
 To Remain

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS Sta 5263+00 to 5312+00	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	512	849	

010 PM 252



**STATION CODE LEGEND:**

- |                                      |                                      |                                    |
|--------------------------------------|--------------------------------------|------------------------------------|
| RE - Ruthrauff Rd Eastbound          | RW - Ruthrauff Rd Westbound          | EE - El Camino Del Cerro Eastbound |
| HN - Highway Dr/Davis Hwy Northbound | HS - Highway Dr/Davis Hwy Southbound | EW - El Camino Del Cerro Westbound |
| LN - North Loop Rd Northbound        | LS - North Loop Rd Southbound        | MN - Maryvale Ave Northbound       |
| MS - Maryvale Ave Southbound         |                                      |                                    |

**LEGEND**

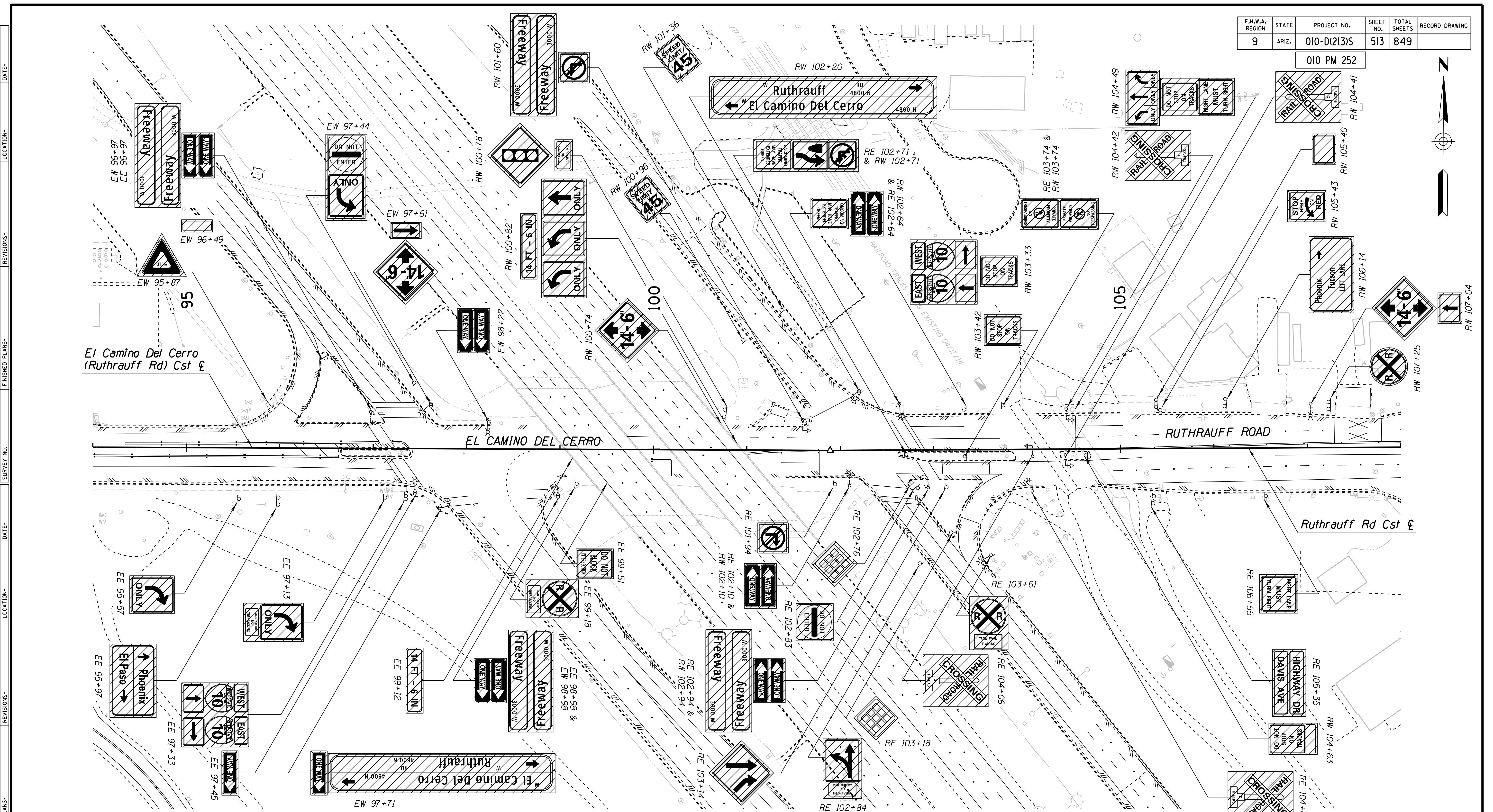
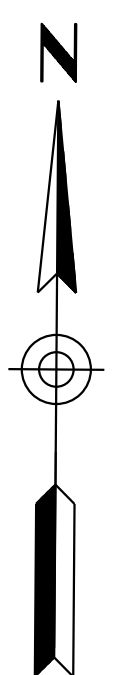
Remove Existing

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		<b>RUTHRAUFF ROAD</b> <b>EXISTING SIGN REMOVALS</b> <b>STA 80+00 TO STA 94+00</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		DWG NO. T-8.01

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-D(213)S	513	849	

010 PM 252



**STATION CODE LEGEND:**

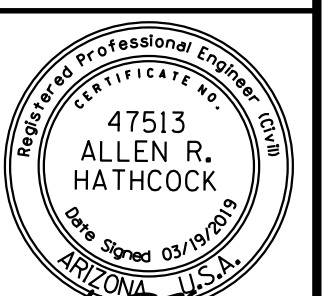
- |                                      |                                      |                                    |
|--------------------------------------|--------------------------------------|------------------------------------|
| RE - Ruthrauff Rd Eastbound          | RW - Ruthrauff Rd Westbound          | EE - El Camino Del Cerro Eastbound |
| HN - Highway Dr/Davis Hwy Northbound | HS - Highway Dr/Davis Hwy Southbound | EW - El Camino Del Cerro Westbound |
| LN - North Loop Rd Northbound        | LS - North Loop Rd Southbound        | MN - Maryvale Ave Northbound       |
| MS - Maryvale Ave Southbound         |                                      |                                    |

**LEGEND**

Remove Existing

DESIGN	NAME	DATE
DESIGN	A. HATHCOCK	3-19
DRAWN	V. CASTANEDA	3-19
CHECKED	A. HATHCOCK	3-19

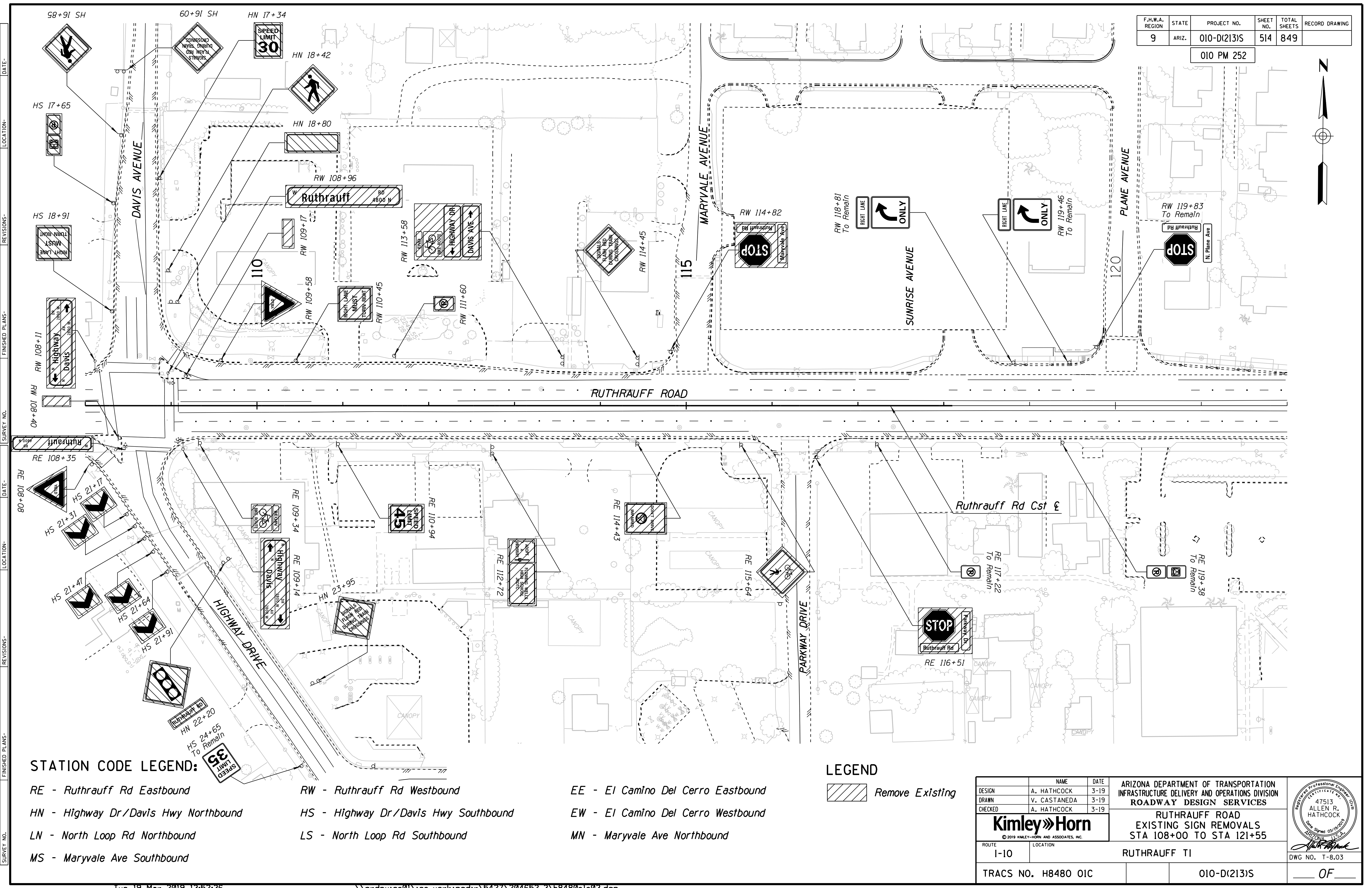
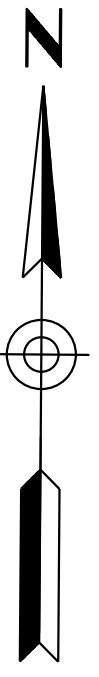
ARIZONA DEPARTMENT OF TRANSPORTATION  
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION  
**ROADWAY DESIGN SERVICES**  
RUTHRAUFF ROAD  
EXISTING SIGN REMOVALS  
STA 94+00 TO STA 108+00



ROUTE	LOCATION	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
1-10	RUTHRAUFF TI	010-D(213)S	513	849	
TRACS NO. H8480 OIC					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	514	849	

010 PM 252



**STATION CODE LEGEND:**

- RE - Ruthrauff Rd Eastbound
- HN - Highway Dr/Davis Hwy Northbound
- LN - North Loop Rd Northbound
- MS - Maryvale Ave Southbound
- RW - Ruthrauff Rd Westbound
- HS - Highway Dr/Davis Hwy Southbound
- LS - North Loop Rd Southbound

**LEGEND**

Remove Existing

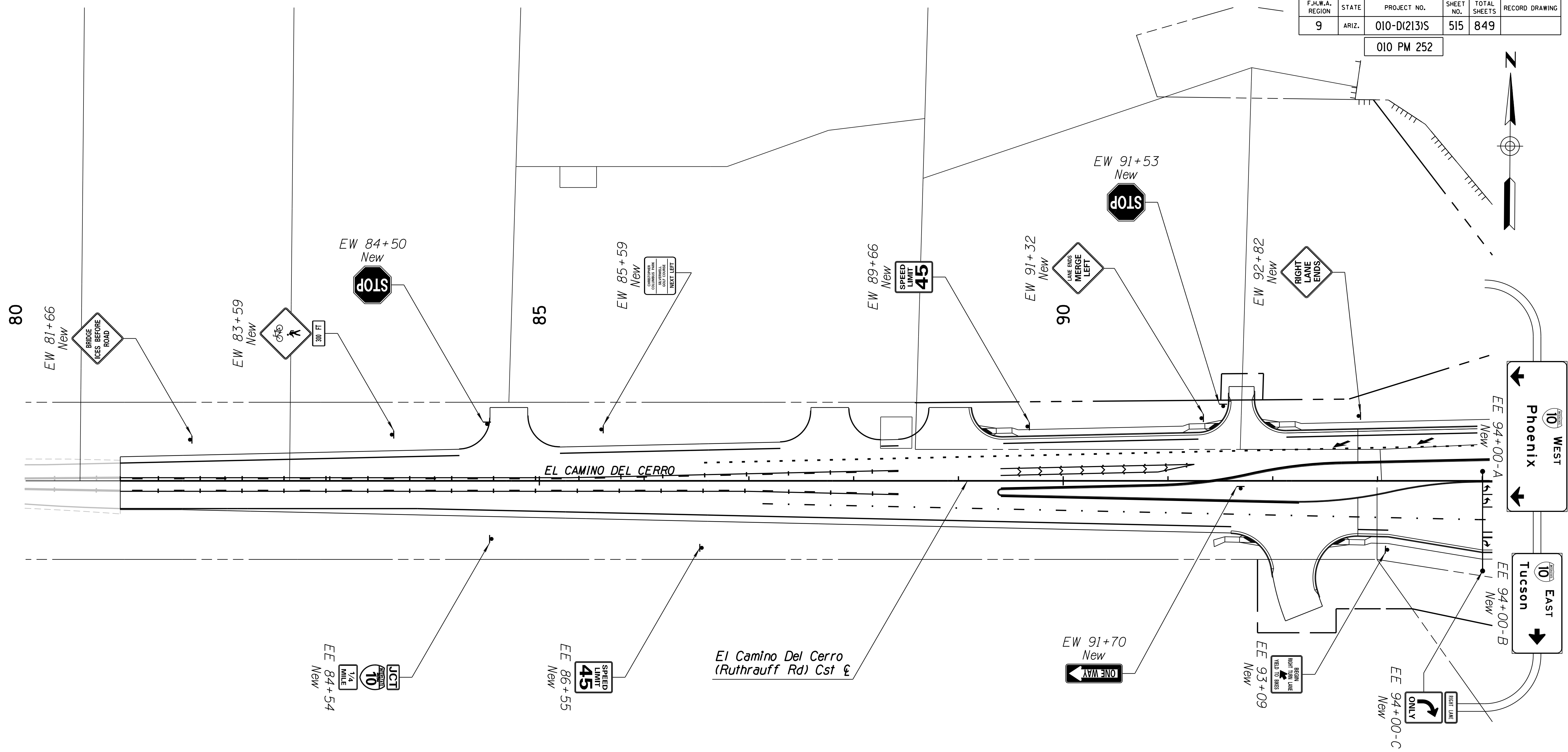
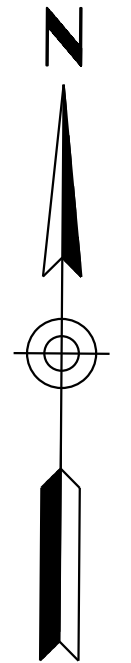
- EE - El Camino Del Cerro Eastbound
- EW - El Camino Del Cerro Westbound
- MN - Maryvale Ave Northbound

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> EXISTING SIGN REMOVALS STA 108+00 TO STA 121+55	 DWG NO. T-8.03
DRAWN	V. CASTANEDA	3-19			
CHECKED	A. HATHCOCK	3-19			
<b>Kimley»Horn</b>				RUTHRAUFF TI	
ROUTE	1-10	LOCATION			
TRACS NO. H8480 OIC		010-D(213)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-D(213)S	515	849	

010 PM 252



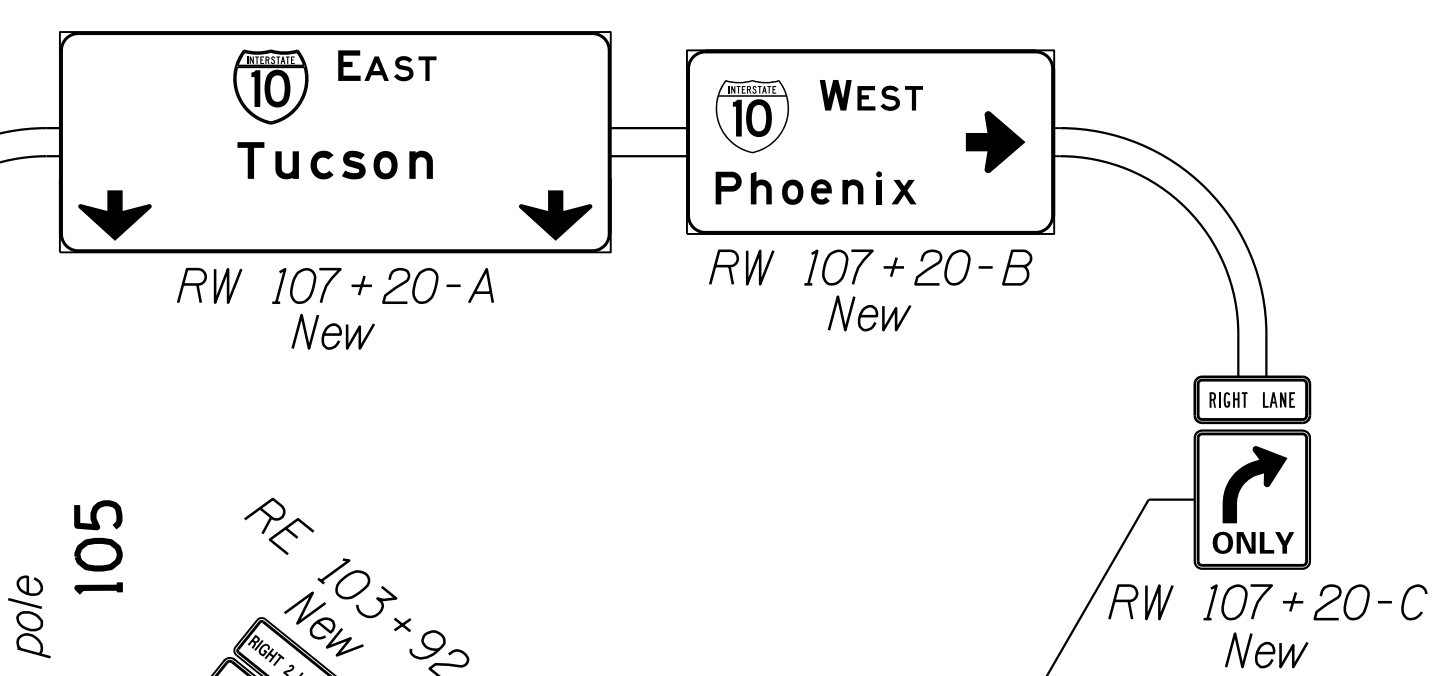
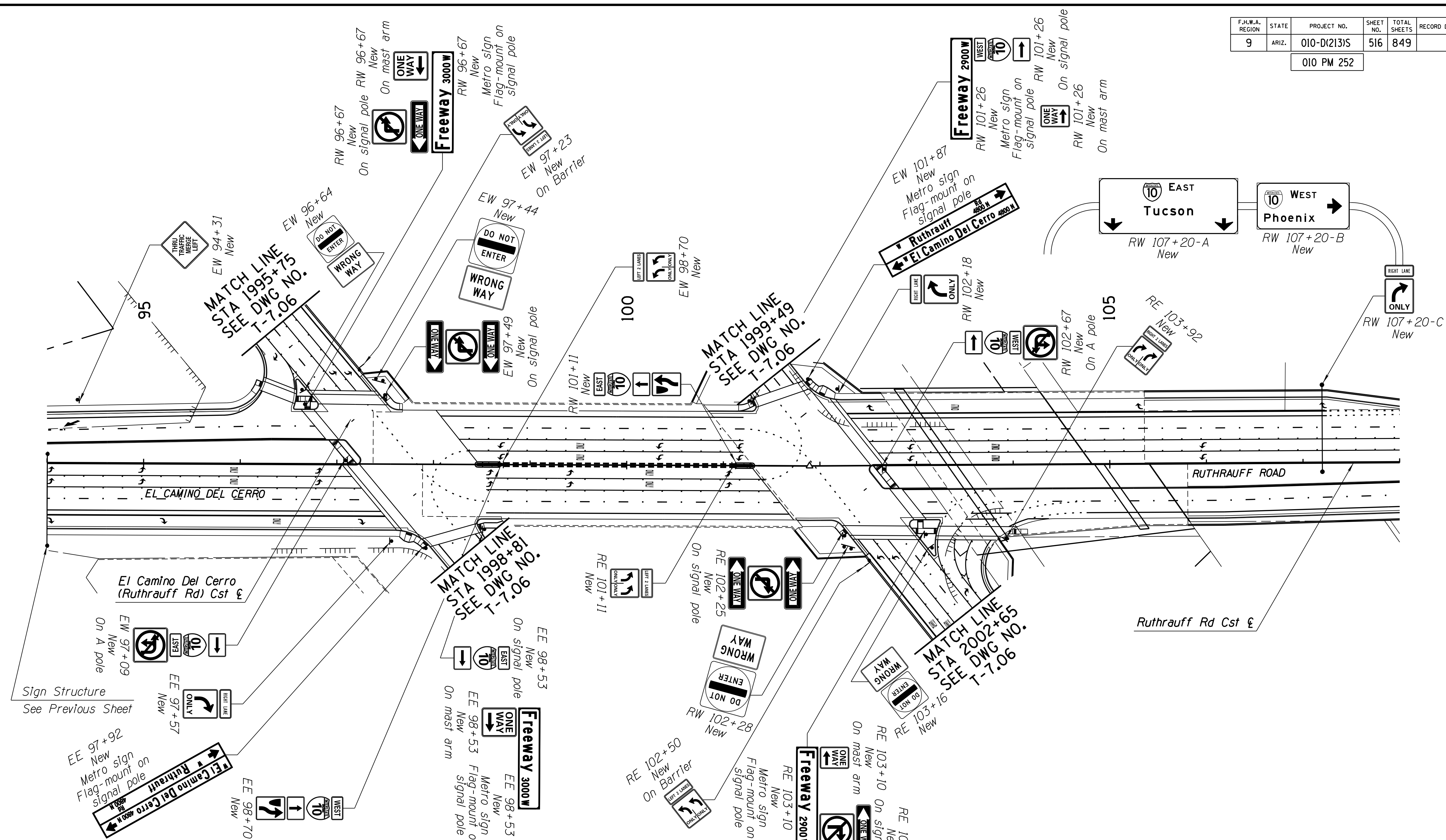
**STATION CODE LEGEND:**

- |   |   |   |
|---|---|---|
| <i>RE</i> - Ruthrauff Rd Eastbound          | <i>RW</i> - Ruthrauff Rd Westbound          | <i>EE</i> - El Camino Del Cerro Eastbound |
| <i>HN</i> - Highway Dr/Davis Hwy Northbound | <i>HS</i> - Highway Dr/Davis Hwy Southbound | <i>EW</i> - El Camino Del Cerro Westbound |
| <i>LN</i> - North Loop Rd Northbound        | <i>LS</i> - North Loop Rd Southbound        | <i>MN</i> - Maryvale Ave Northbound       |
| <i>MS</i> - Maryvale Ave Southbound         |   |   |

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		<b>RUTHRAUFF ROAD</b>		<b>SIGNING PLANS</b>	
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		STA 80+00 TO STA 94+00		RUTHRAUFF TI	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC	PROJECT NO.	010-D(213)S		DWG NO. T-9.01

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	516	849	

010 PM 252



**STATION CODE LEGEND:**

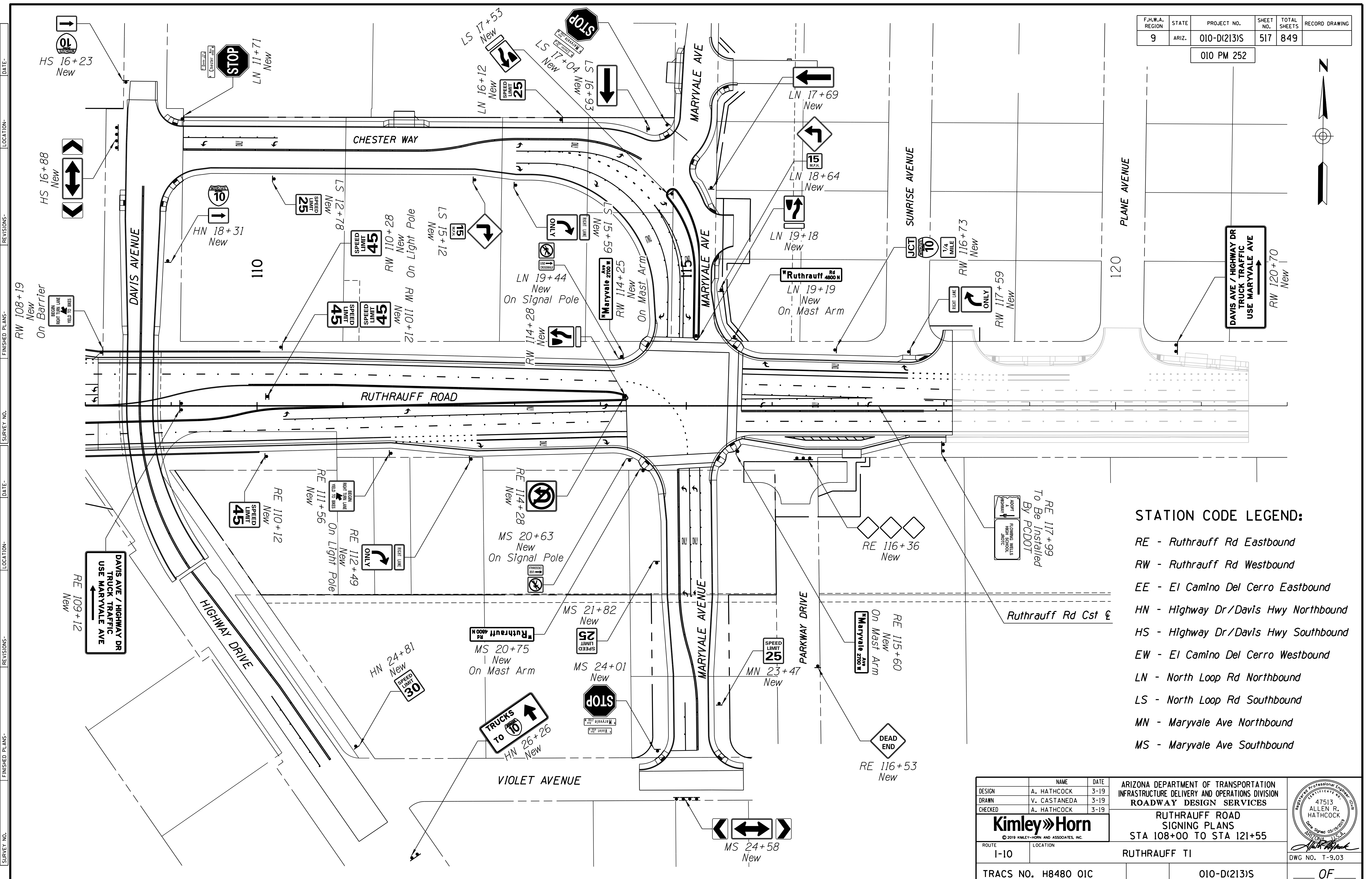
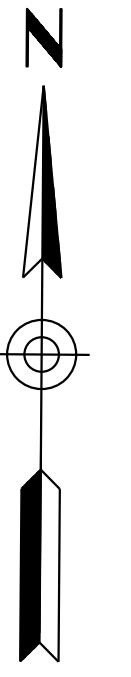
- |                                      |                                      |                                    |
|--------------------------------------|--------------------------------------|------------------------------------|
| RE - Ruthrauff Rd Eastbound          | RW - Ruthrauff Rd Westbound          | EE - El Camino Del Cerro Eastbound |
| HN - Highway Dr/Davis Hwy Northbound | HS - Highway Dr/Davis Hwy Southbound | EW - El Camino Del Cerro Westbound |
| LN - North Loop Rd Northbound        | LS - North Loop Rd Southbound        | MN - Maryvale Ave Northbound       |
| MS - Maryvale Ave Southbound         |                                      |                                    |

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b>				RUTHRAUFF ROAD SIGNING PLANS STA 94+00 TO STA 108+00	
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.					
ROUTE	LOCATION			RUTHRAUFF TI	
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. T-9.02	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	517	849	

010 PM 252

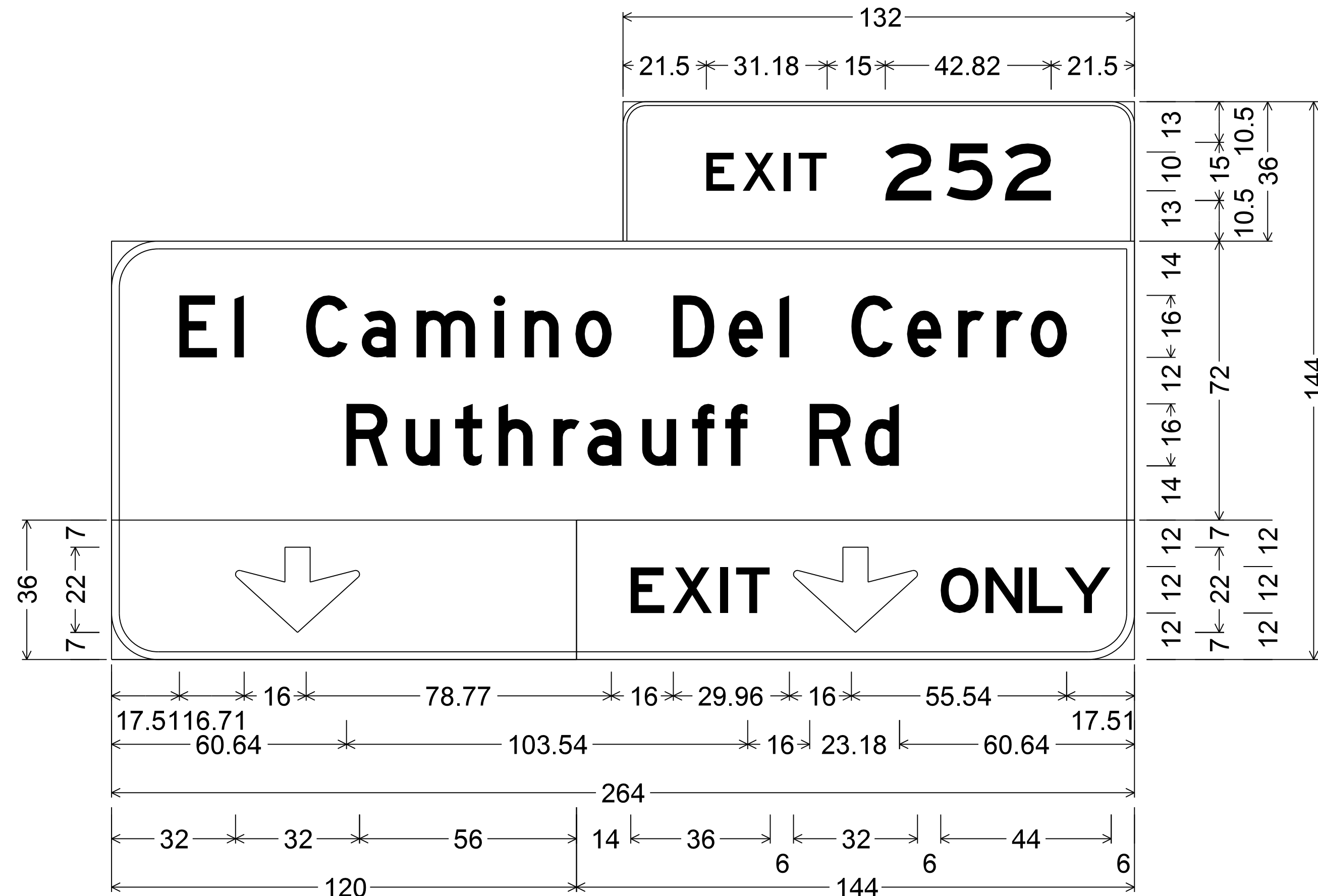


- STATION CODE LEGEND:**
- RE - Ruthrauff Rd Eastbound
  - RW - Ruthrauff Rd Westbound
  - EE - El Camino Del Cerro Eastbound
  - HN - Highway Dr/Davis Hwy Northbound
  - HS - Highway Dr/Davis Hwy Southbound
  - EW - El Camino Del Cerro Westbound
  - LN - North Loop Rd Northbound
  - LS - North Loop Rd Southbound
  - MN - Maryvale Ave Northbound
  - MS - Maryvale Ave Southbound

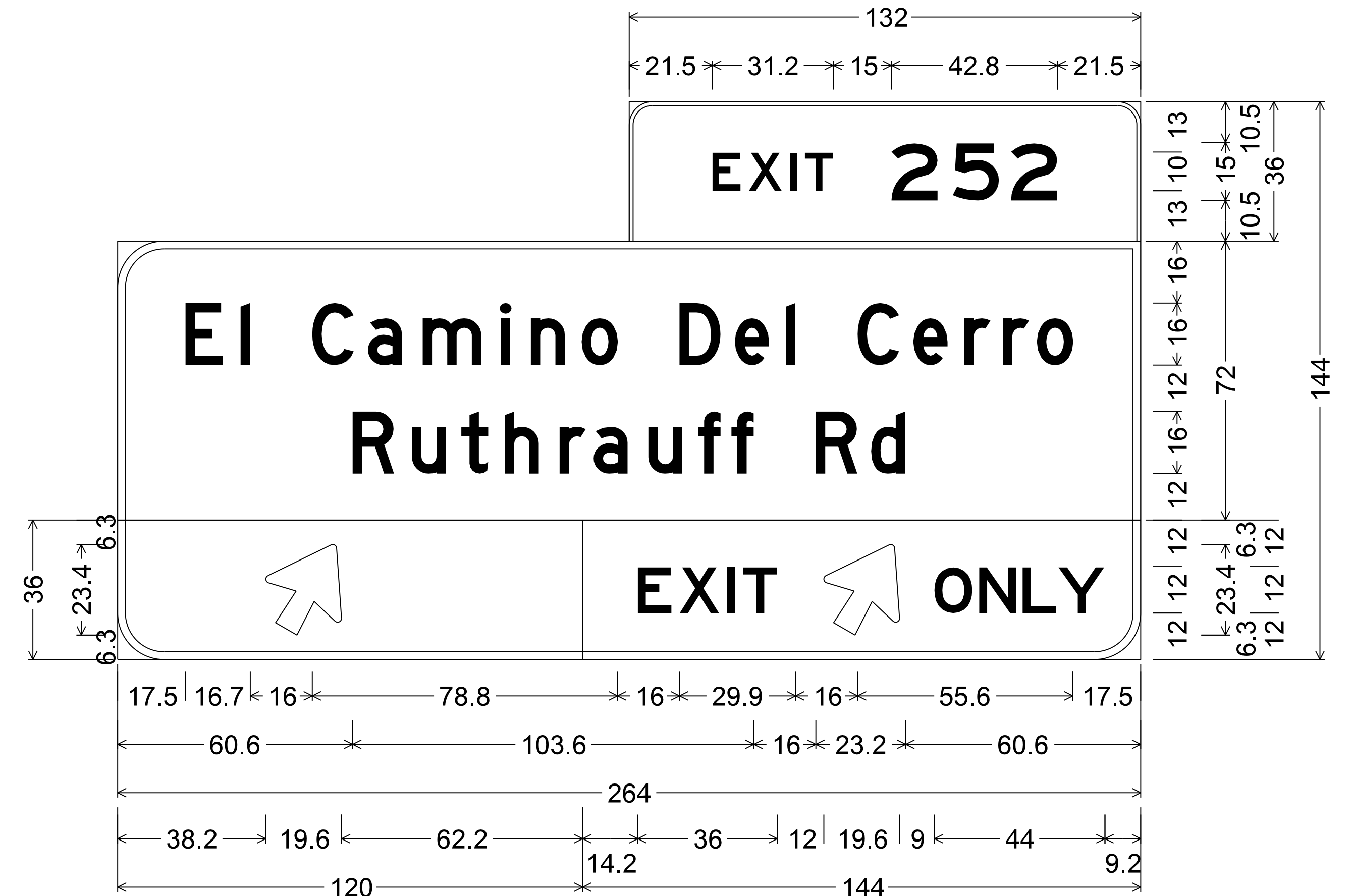
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>SIGNING PLANS</b> STA 108+00 TO STA 121+55	
DRAWN	V. CASTANEDA	3-19			
CHECKED	A. HATHCOCK	3-19			
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		ROUTE LOCATION 1-10 RUTHRAUFF TI		DWG NO. T-9.03	
TRACS NO. H8480 OIC			010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	518	849	

010 PM 252



MP 253.27C, WB Sta: 5261+50; [MP 251.64 EB Sta: 5175+20]  
 6.00" Radius, 1.00" Border, White on Green;  
 [EXIT] E; [252] E;  
 12.00" Radius, 2.00" Border, White on Green;  
 [El Camino Del Cerro] D; [Ruthrauff Rd] D;  
 12.00" Radius, 2.00" Border, White on Green;  
 Down Arrow 13.33-16-20" - 22.00" 270°;  
 12.00" Radius, 2.00" Border, Black on Yellow;  
 [EXIT] E specified length; Down Arrow 13.33-16-20" - 22.00" 270°;  
 [ONLY] E specified length;



MP 252.87, WB Sta: 5240+20; [MP 251.99 EB Sta: 5193+70]  
 6.0" Radius, 1.0" Border, White on Green;  
 [EXIT] E; [252] E;  
 12.0" Radius, 2.0" Border, White on Green;  
 [El Camino Del Cerro] D; [Ruthrauff Rd] D;  
 12.0" Radius, 2.0" Border, White on Green;  
 Arrow 16-20 Type B - 25.0" 60°;  
 12.0" Radius, 2.0" Border, Black on Yellow;  
 [EXIT] E specified length; Arrow 16-20 Type B - 25.0" 60°;  
 [ONLY] E specified length;

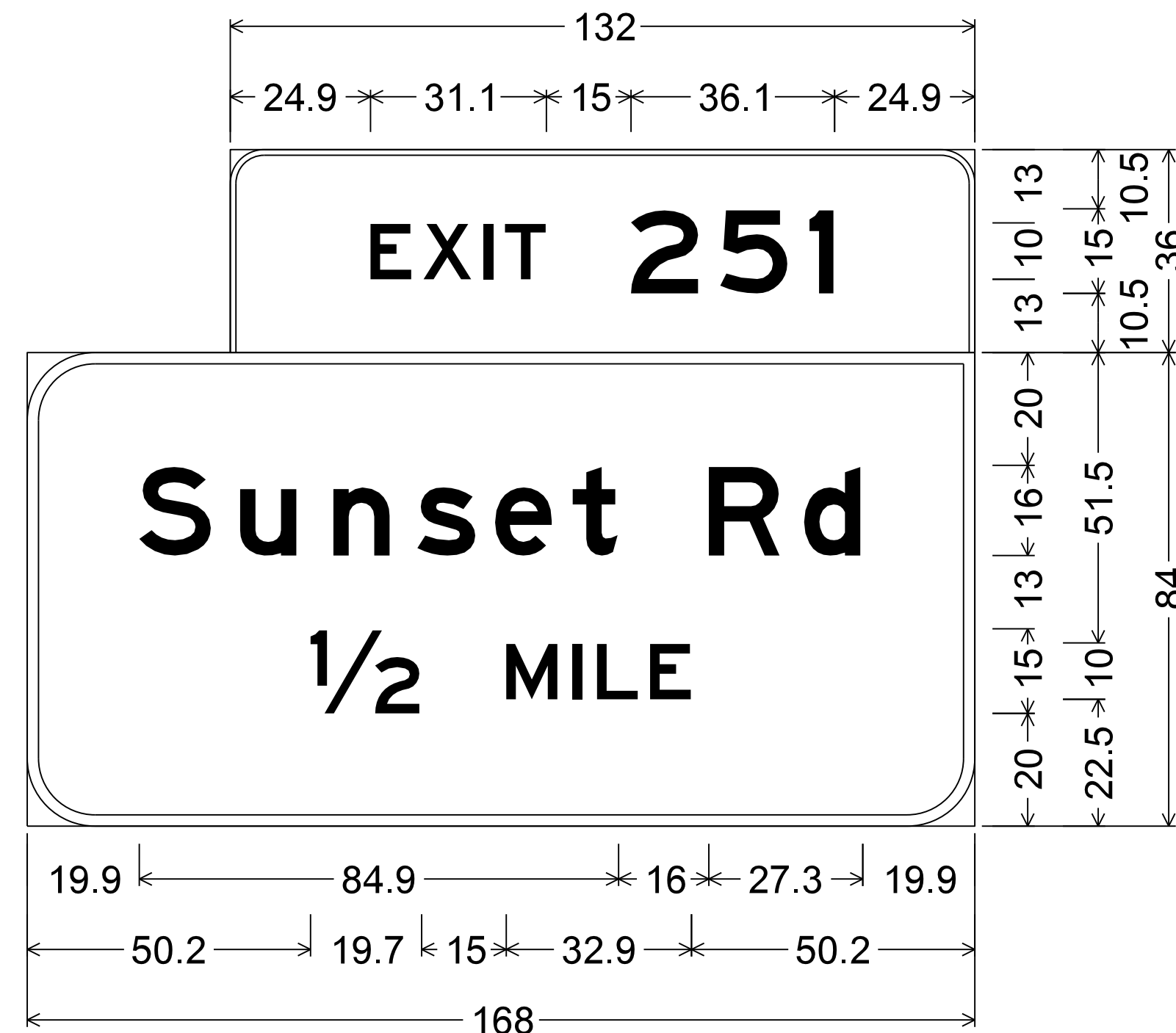
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S	
				EXPIRES 09/30/2019 DWG NO. T-10.01 OF

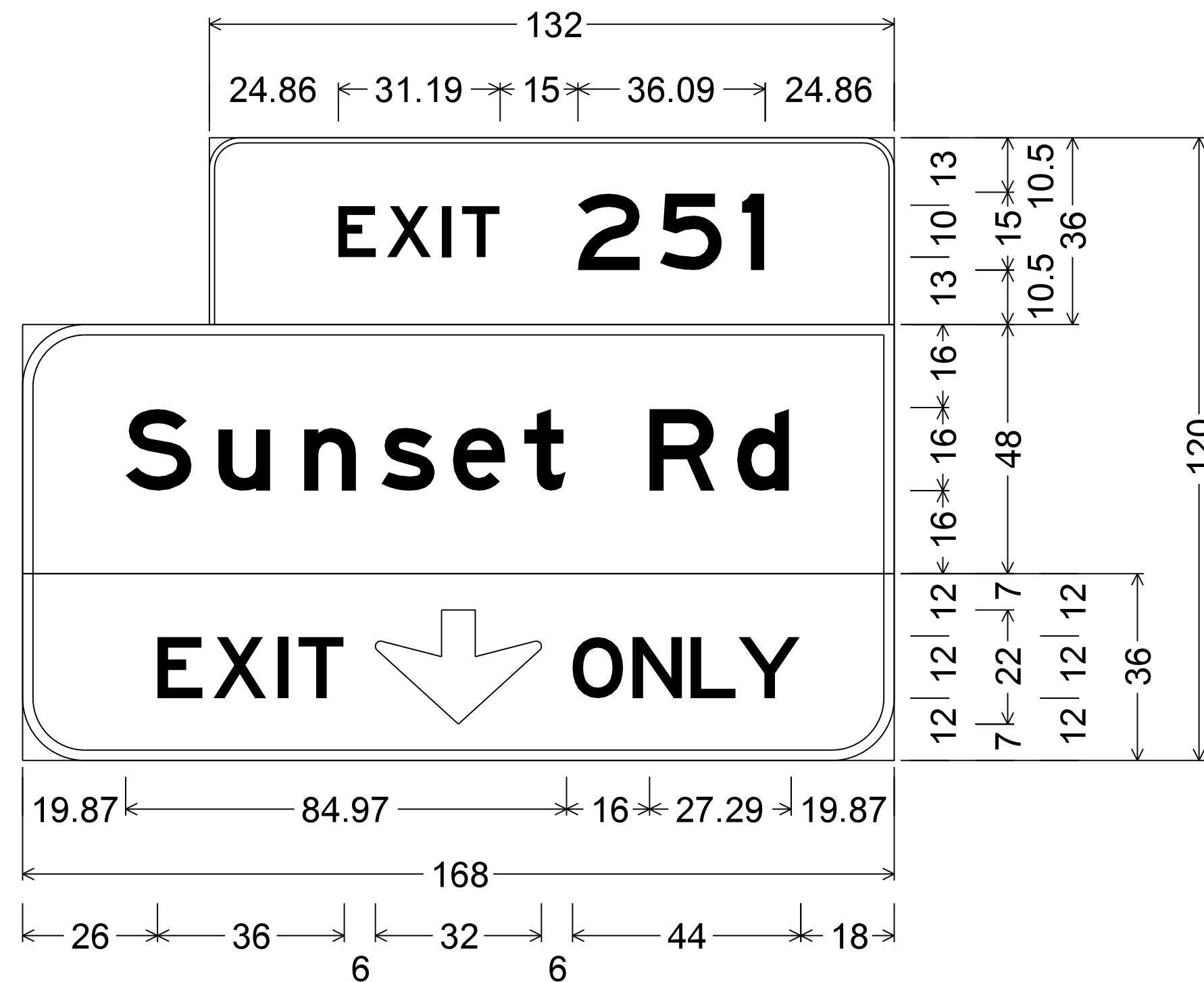


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	520	849	

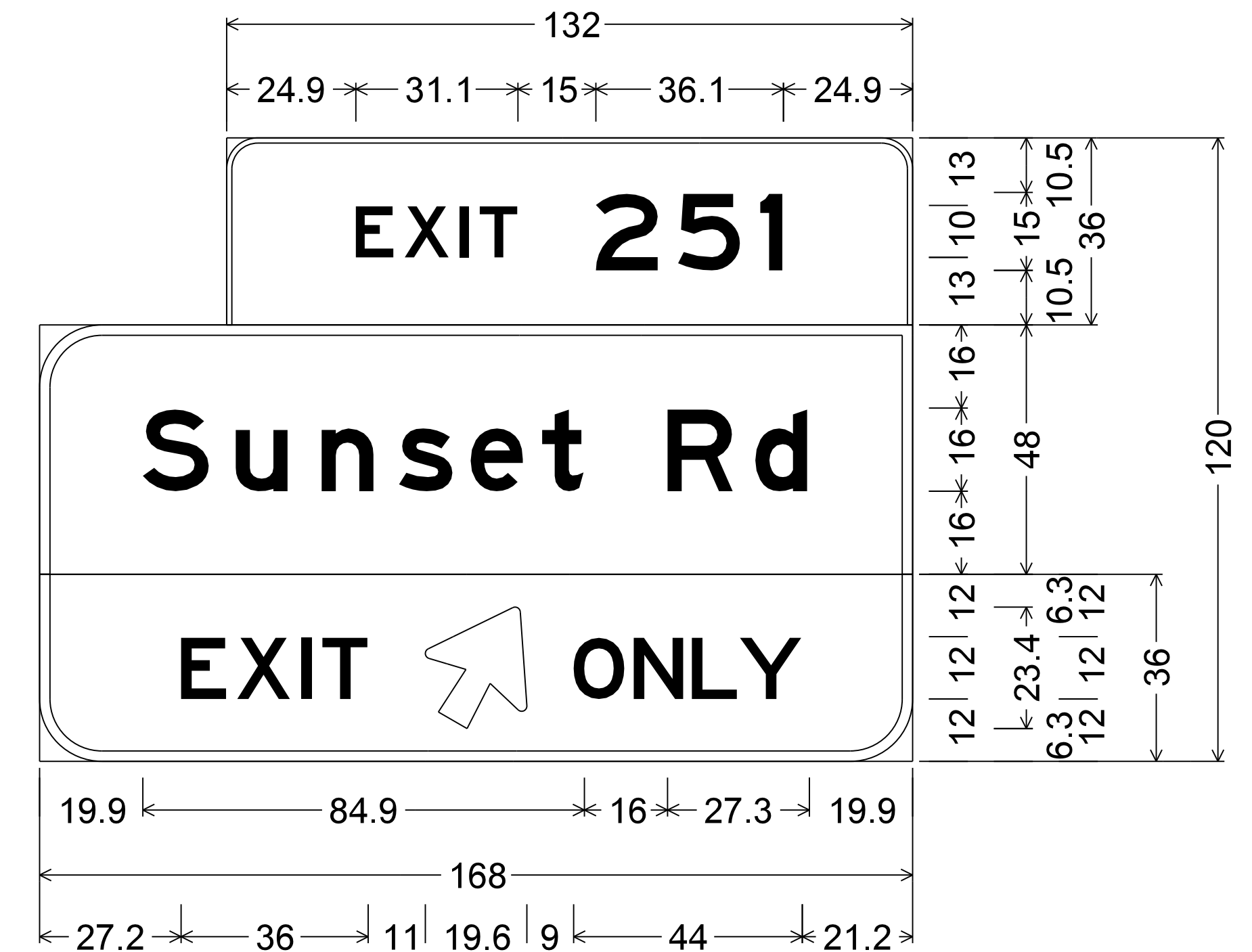
010 PM 252



MP 252.22, WB Sta: 5206+25  
 6.0" Radius, 1.0" Border, White on Green;  
 [EXIT] E; [251] E;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Sunset Rd] E; [1/2 MILE] E;



MP 251.90, WB Sta: 5189+10  
 6.00" Radius, 1.00" Border, White on Green;  
 [EXIT] E; [251] E;  
 12.00" Radius, 2.00" Border, White on Green;  
 [Sunset Rd] E;  
 12.00" Radius, 2.00" Border, Black on Yellow;  
 [EXIT] E specified length;  
 Down Arrow 13.33-16-20" - 22.00" 270°;  
 [ONLY] E specified length;



MP 251.65, WB Sta: 5175+90  
 6.0" Radius, 1.0" Border, White on Green;  
 [EXIT] E; [251] E;  
 12.0" Radius, 2.0" Border, White on Green;  
 [Sunset Rd] E;  
 12.0" Radius, 2.0" Border, Black on Yellow;  
 [EXIT] E specified length;  
 Arrow 16-20 Type B - 25.0" 60°;  
 [ONLY] E specified length;

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

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS FORMAT SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OID			010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-10.03 OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	522	849	

010 PM 252

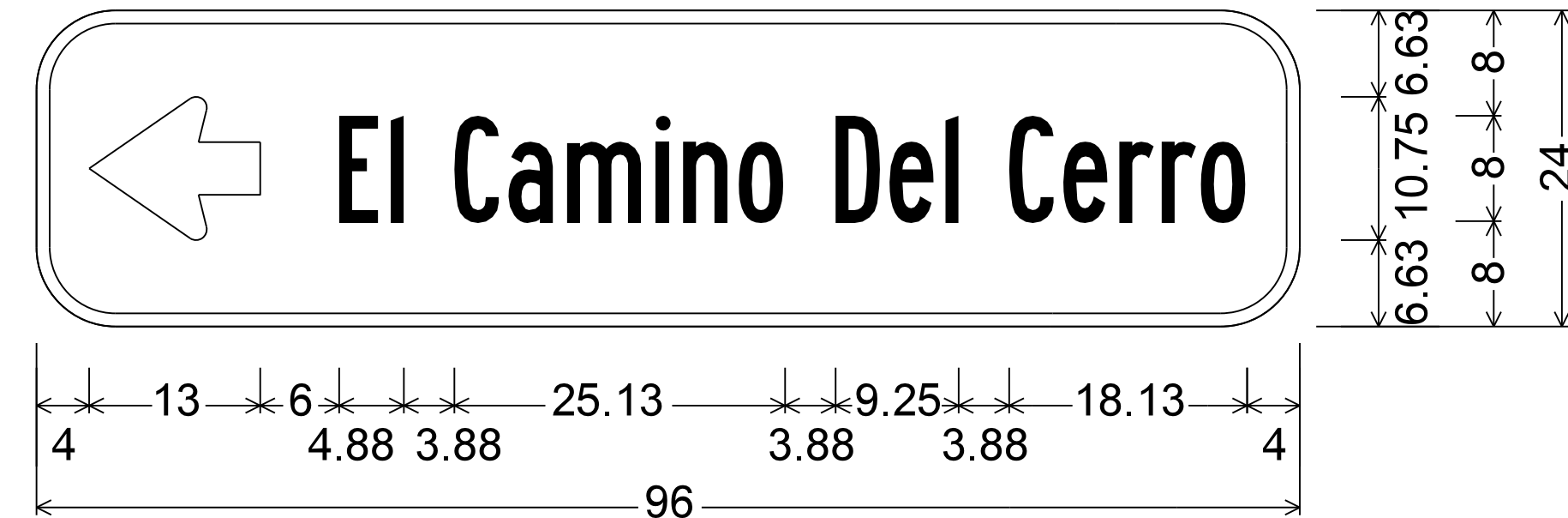


MP 252.28-D, EB Sta: 5209+46

D1-1

6.00" Radius, 1.00" Border, White on Green;

[El Camino Del Cerro] D; Arrow 8" Type D1 - 13.00" 0°;



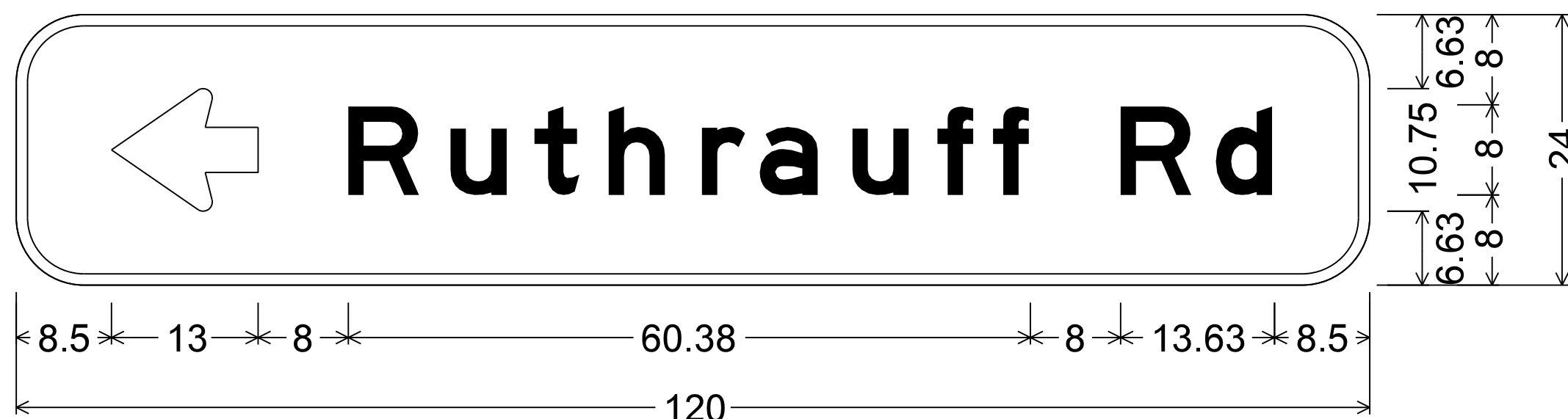
MP 252.57-B, WB Sta: 5224+33

D1-1

6.00" Radius, 1.00" Border, White on Green;

Arrow 8" Type D1 - 13.00" 180°;

[El Camino Del Cerro] B specified length;

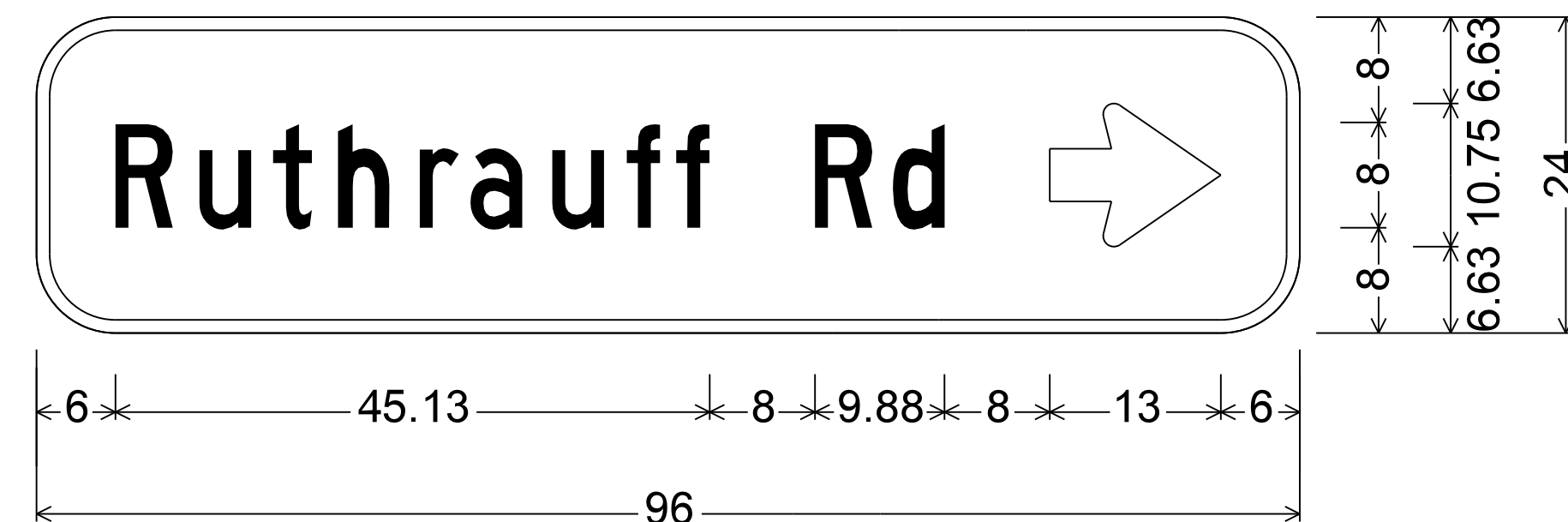


MP 252.28-C, EB Sta: 5209+44

D1-1

6.00" Radius, 1.00" Border, White on Green;

Arrow 8" Type D1 - 13.00" 180°; [Ruthrauff Rd] E;



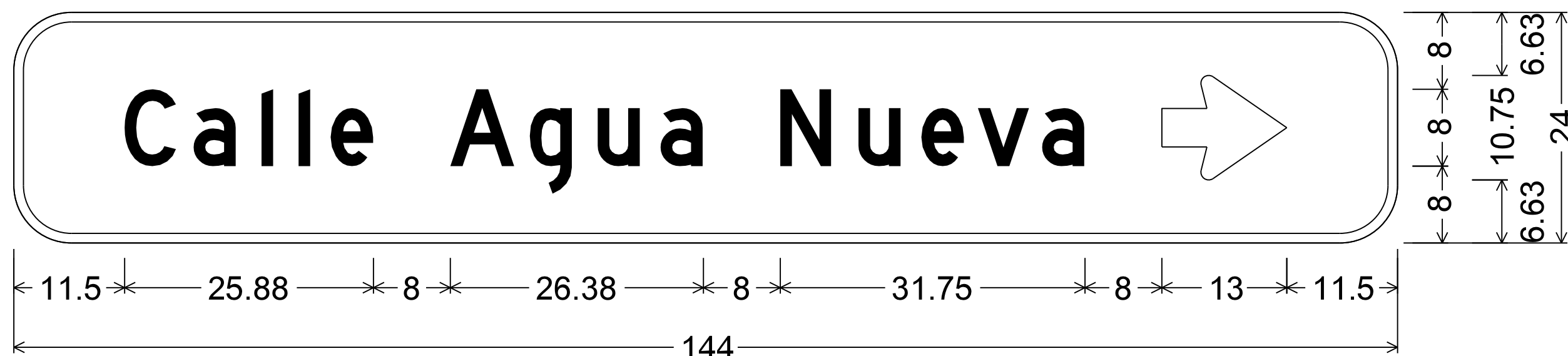
MP 252.57-A, WB Sta: 5224+31

D1-1

6.00" Radius, 1.00" Border, White on Green;

[Ruthrauff Rd] C specified length;

Arrow 8" Type D1 - 13.00" 0°;



MP 252.56-C, EB Sta: 5224+13

D1-1

6.00" Radius, 1.00" Border, White on Green;

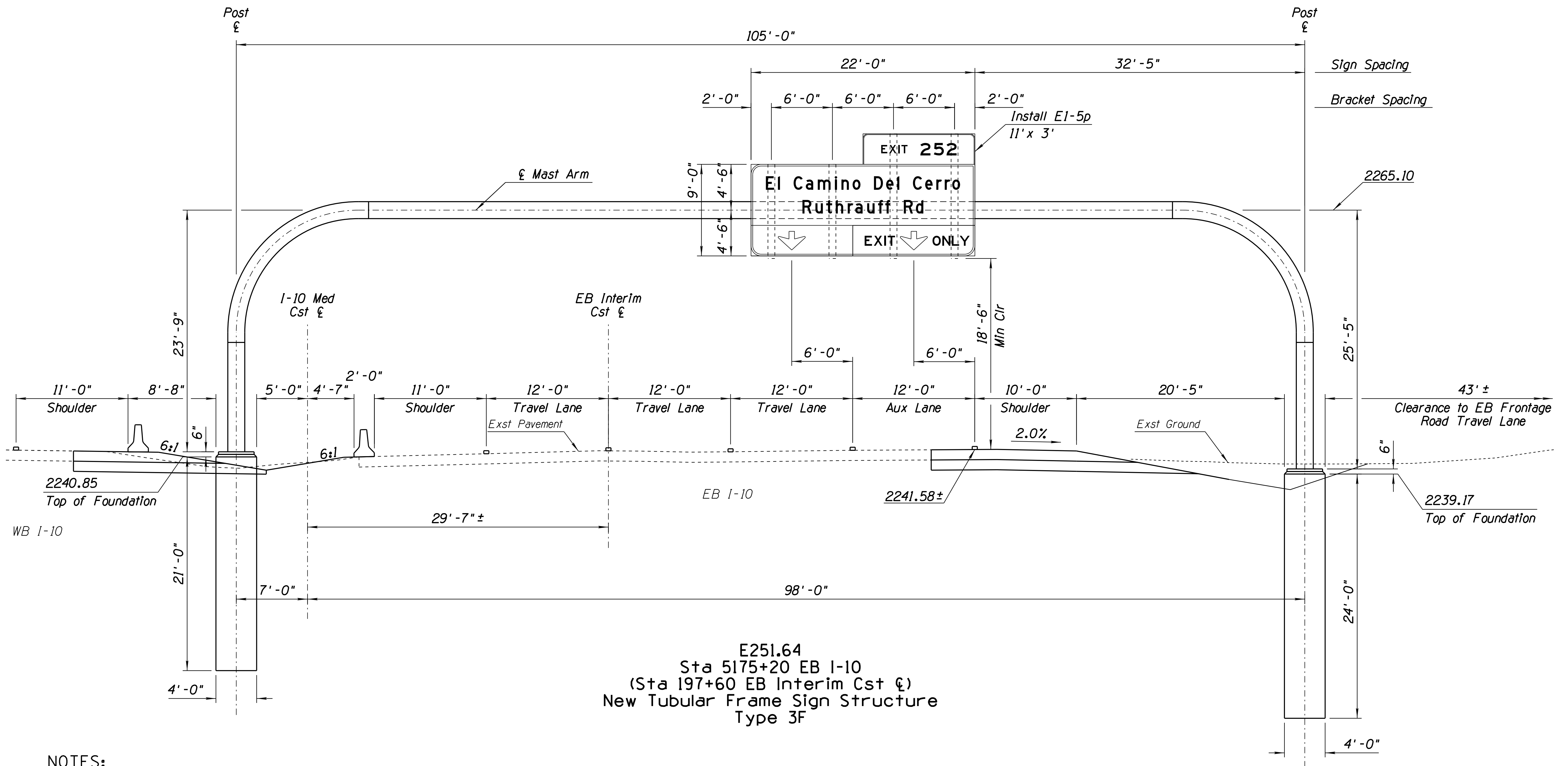
[Calle Agua Nueva] D; Arrow 8" Type D1 - 13.00" 0°;

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>		SIGNING PLANS FORMAT SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S		EXPIRES 09/30/2019 DWG NO. T-10.05 OF

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	523	849	

010 PM 252



E251.64  
Sta 5175+20 EB I-10  
(Sta 197+60 EB Interim Cst  $\xi$ )  
New Tubular Frame Sign Structure  
Type 3F

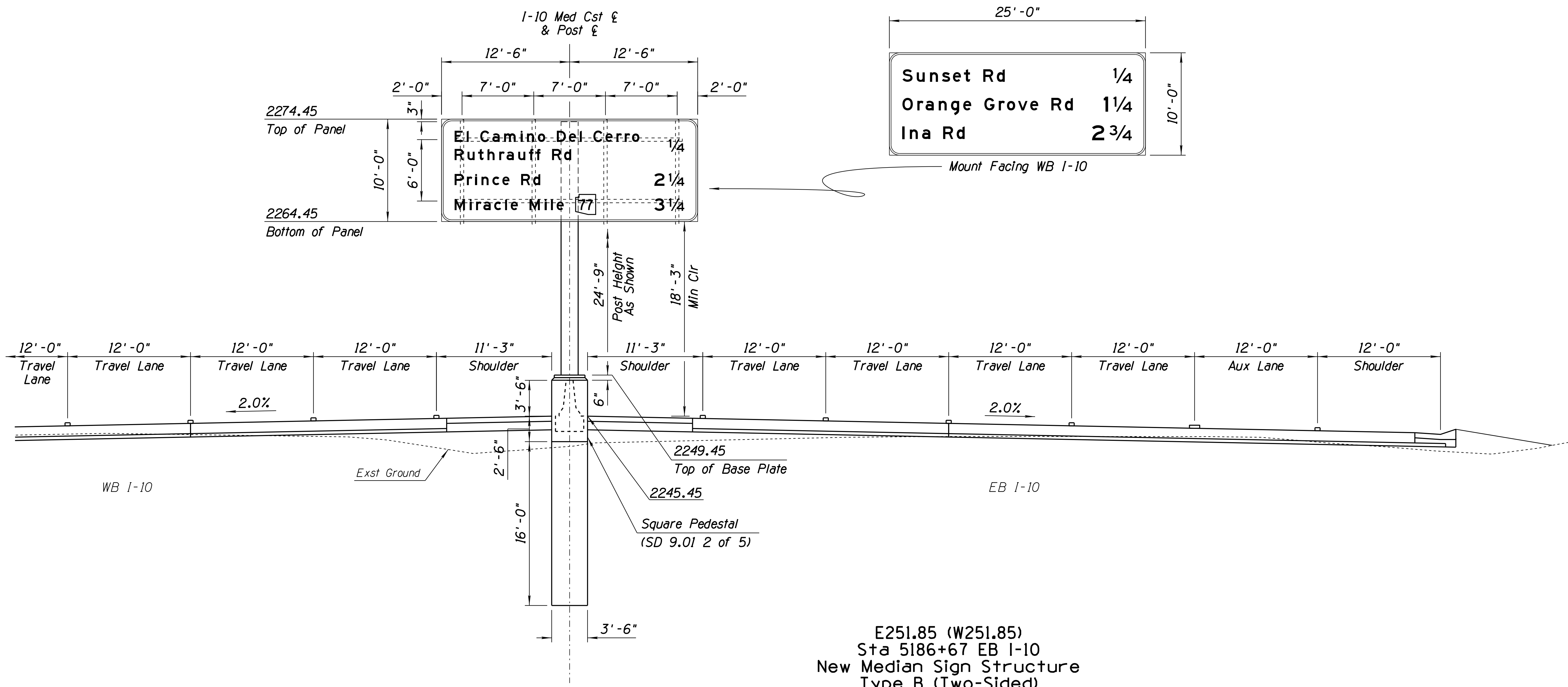
**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OID			010-D(213)S	
				EXPIRES 09/30/2019 DWG NO. T-10.06 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	524	849	

010 PM 252



E251.85 (W251.85)  
 Sta 5186+67 EB I-10  
 New Median Sign Structure  
 Type B (Two-Sided)

**NOTES:**

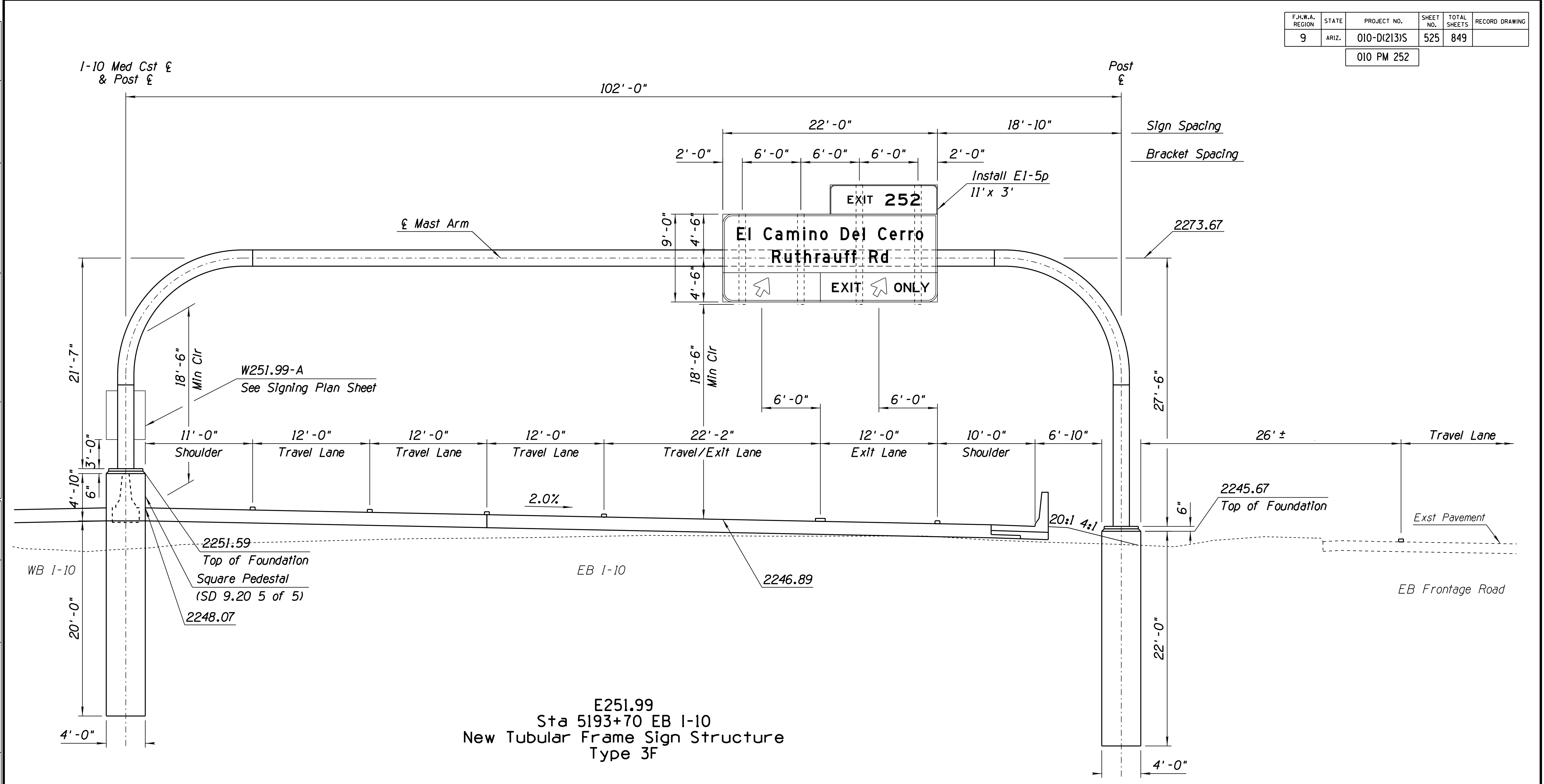
1. See ADOT Standard Drawings SD 9.01 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS E251.85 SIGN ELEVATION SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S		
					EXPIRES 09/30/2019 DWG NO. T-10.07



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	525	849	

010 PM 252



E251.99  
Sta 5193+70 EB I-10  
New Tubular Frame Sign Structure  
Type 3F

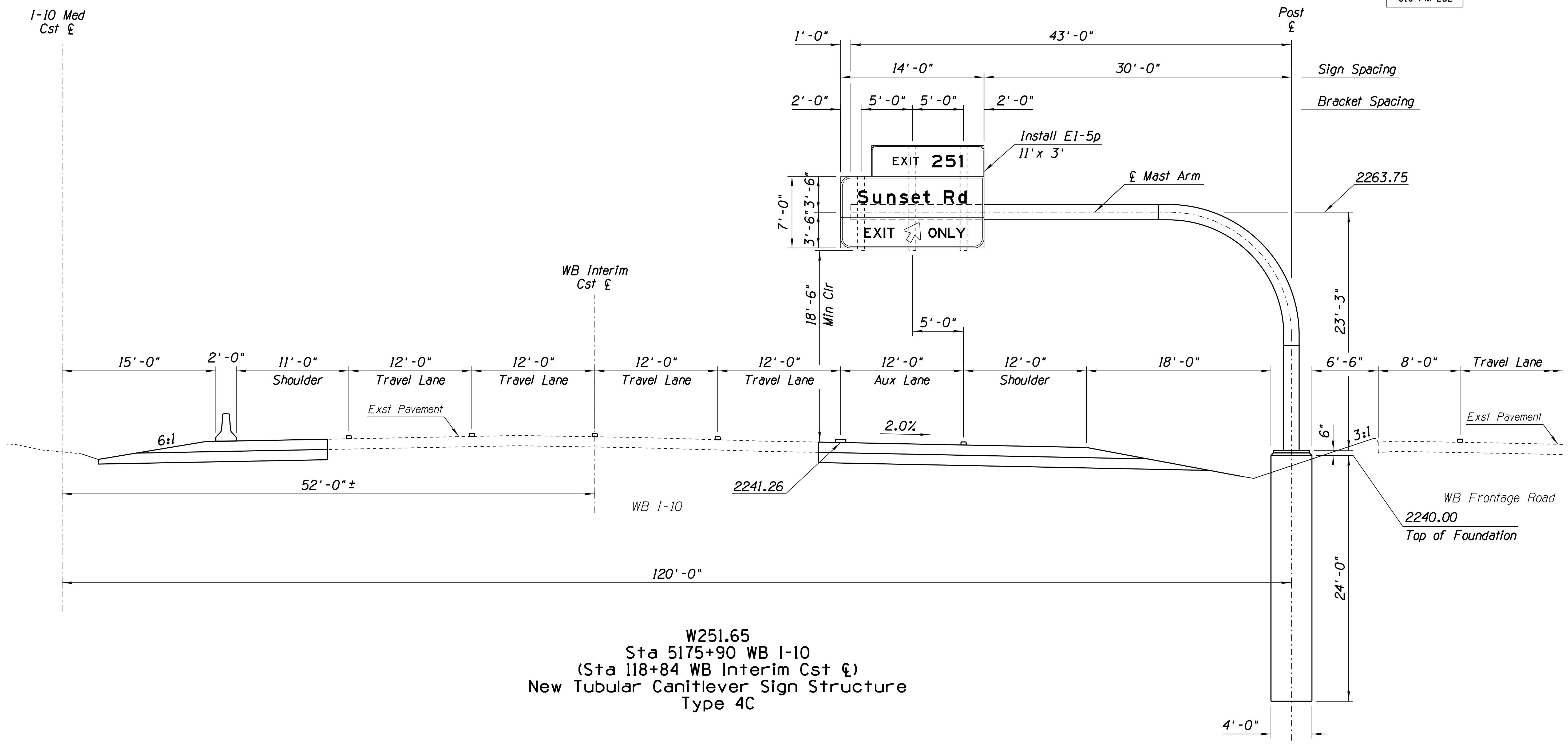
**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS E251.99 SIGN ELEVATION SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OID			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	526	849	

010 PM 252



W251.65  
Sta 5175+90 WB I-10  
(Sta 118+84 WB Interim Cst &)  
New Tubular Cantilever Sign Structure  
Type 4C

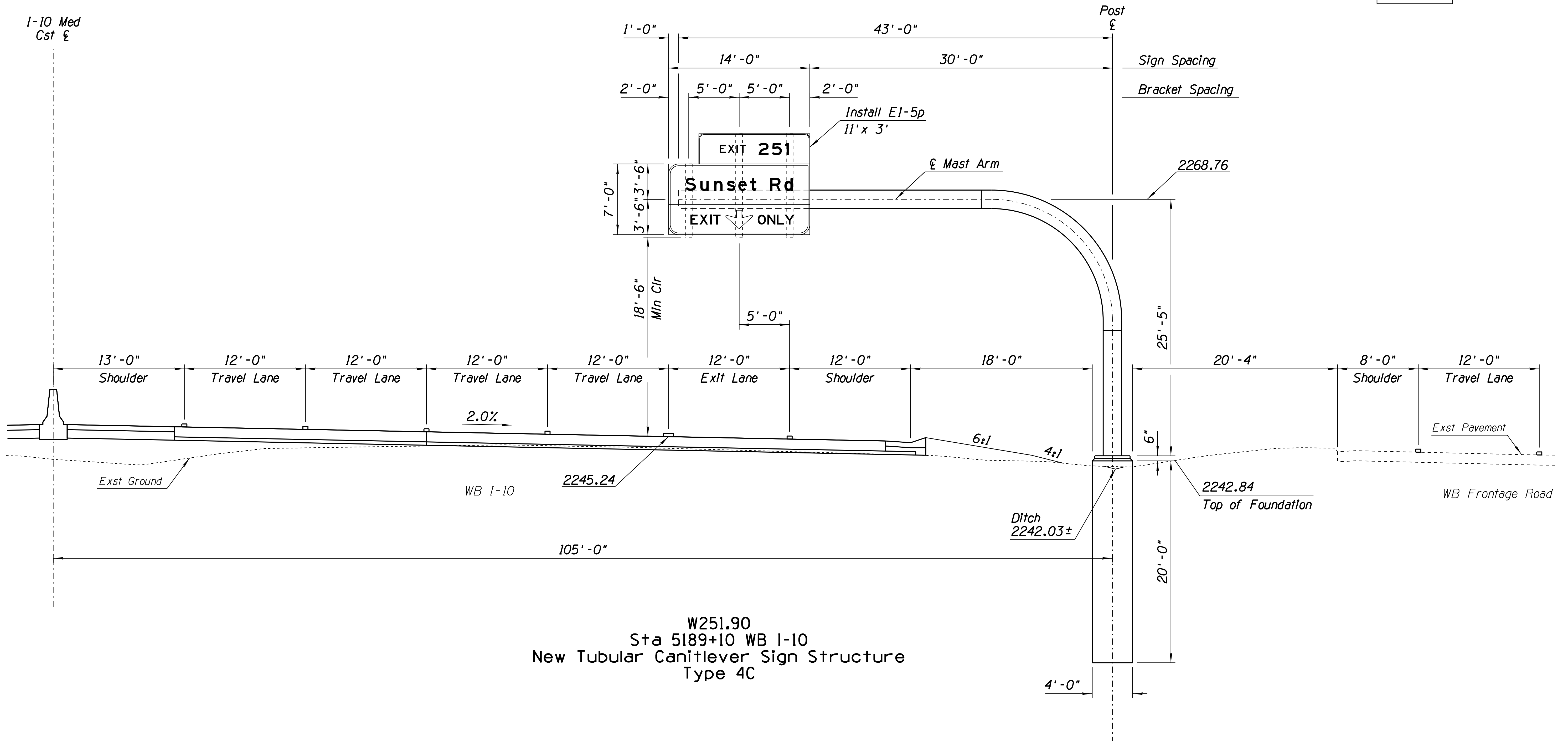
**NOTES:**

1. See ADOT Standard Drawings SD 9.10 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OID			010-D(213)S	EXPIRES 09/30/2019 DWG NO. T-10.09 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	527	849	

010 PM 252



W251.90  
Sta 5189+10 WB I-10  
New Tubular Cantilever Sign Structure  
Type 4C

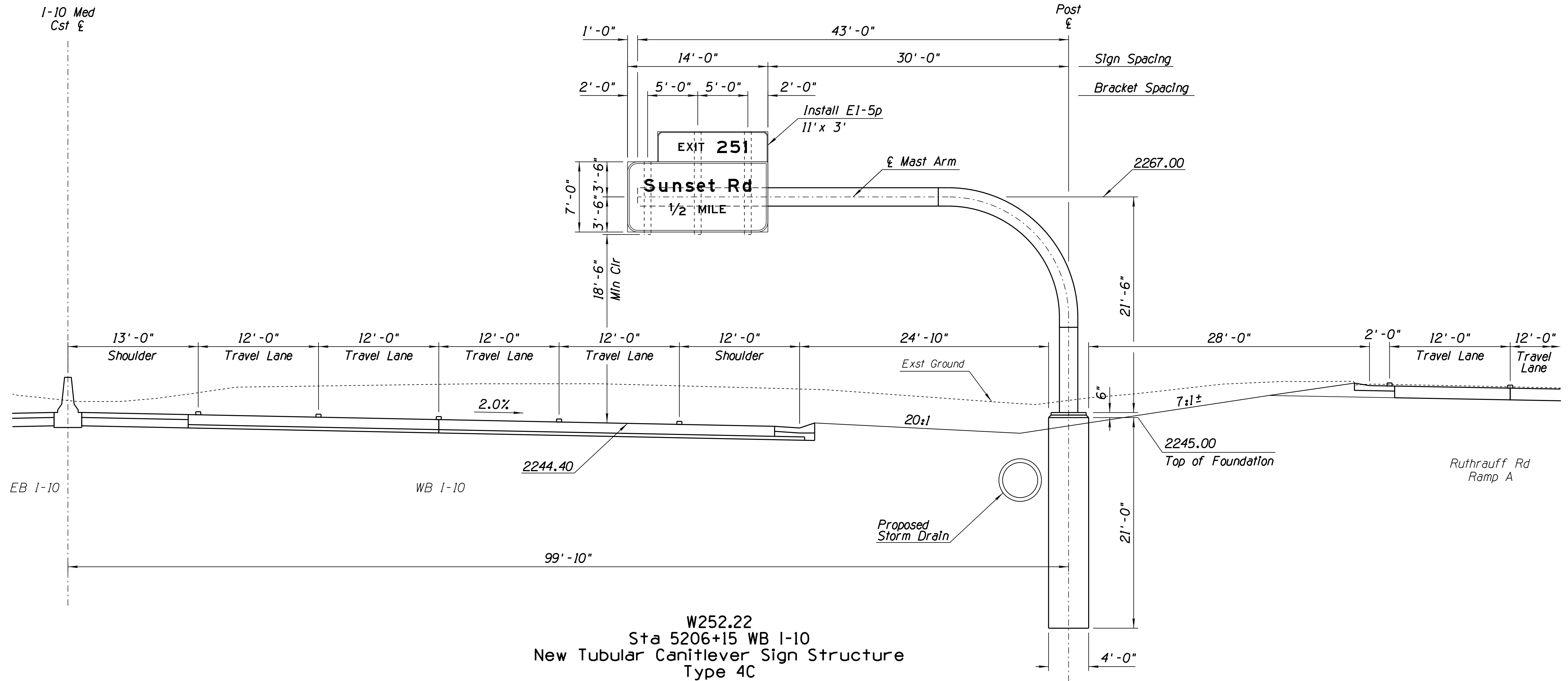
**NOTES:**

1. See ADOT Standard Drawings SD 9.10 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS <b>W251.90 SIGN ELEVATION SHEET</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OID			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	528	849	

010 PM 252



W252.22  
Sta 5206+15 WB I-10  
New Tubular Cantilever Sign Structure  
Type 4C

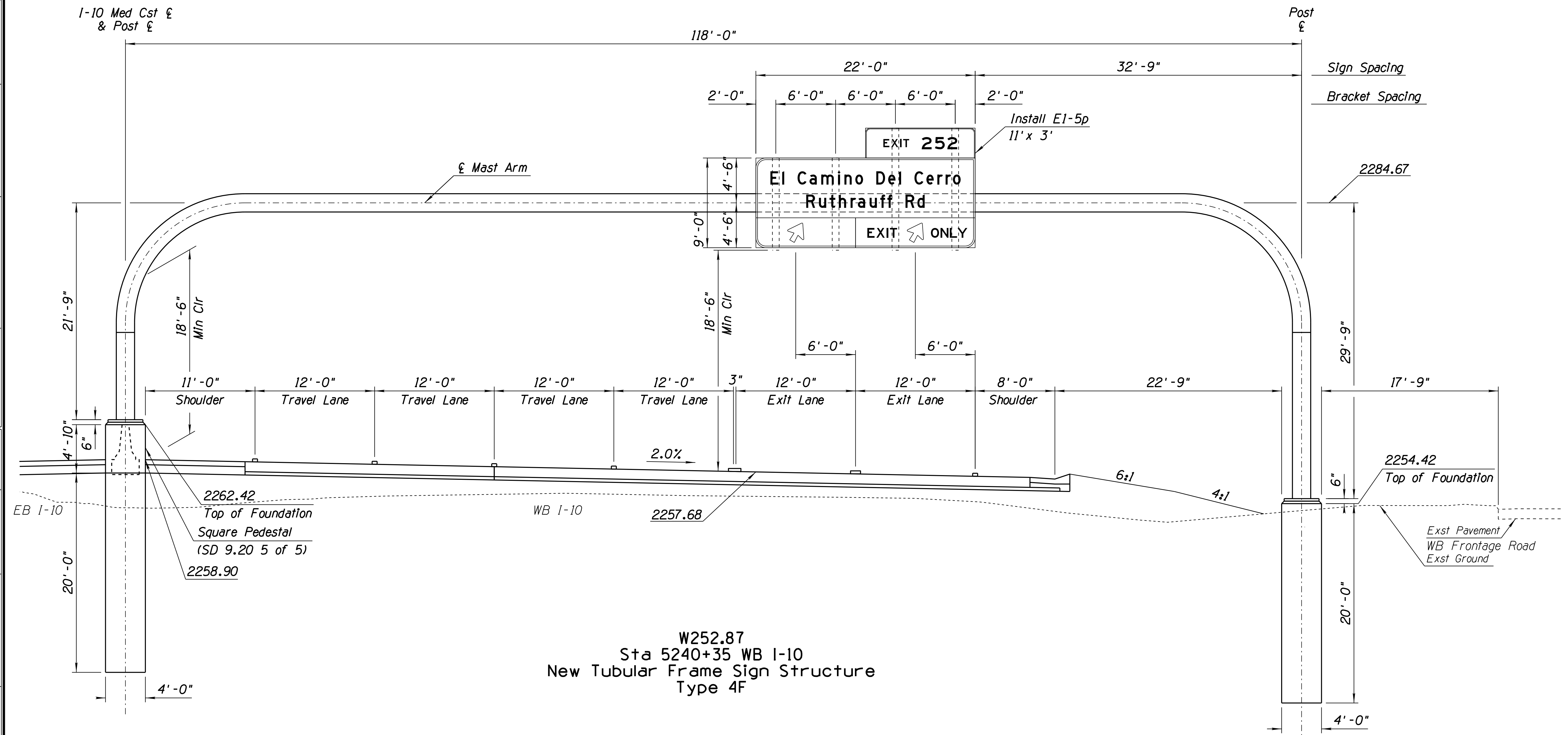
**NOTES:**

1. See ADOT Standard Drawings SD 9.10 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		WSP USA, Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	529	849	

010 PM 252



W252.87  
Sta 5240+35 WB I-10  
New Tubular Frame Sign Structure  
Type 4F

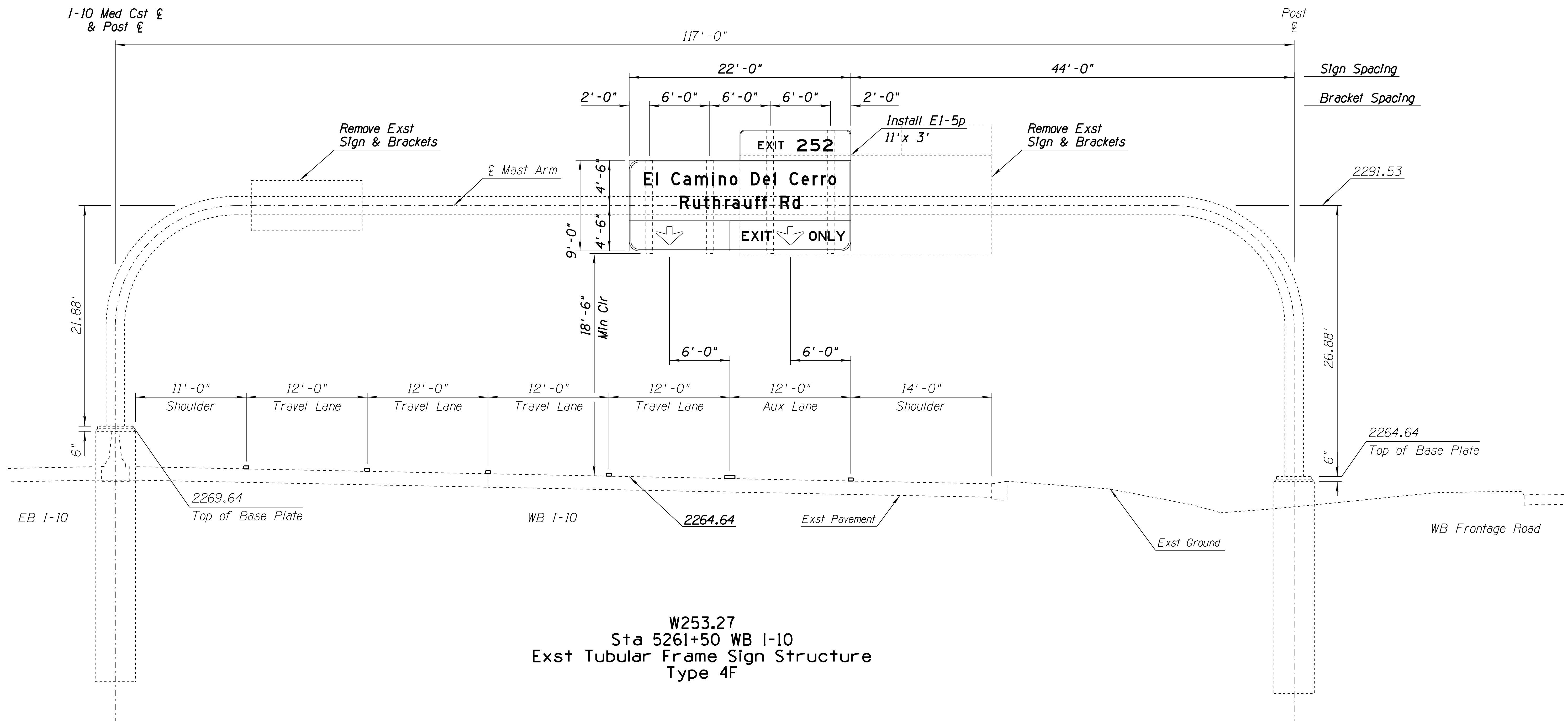
**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	JAV	DATE	3-19		
		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		SIGNING PLANS W252.87 SIGN ELEVATION SHEET	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OID			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	530	849	

010 PM 252



W253.27  
Sta 5261+50 WB I-10  
Exst Tubular Frame Sign Structure  
Type 4F

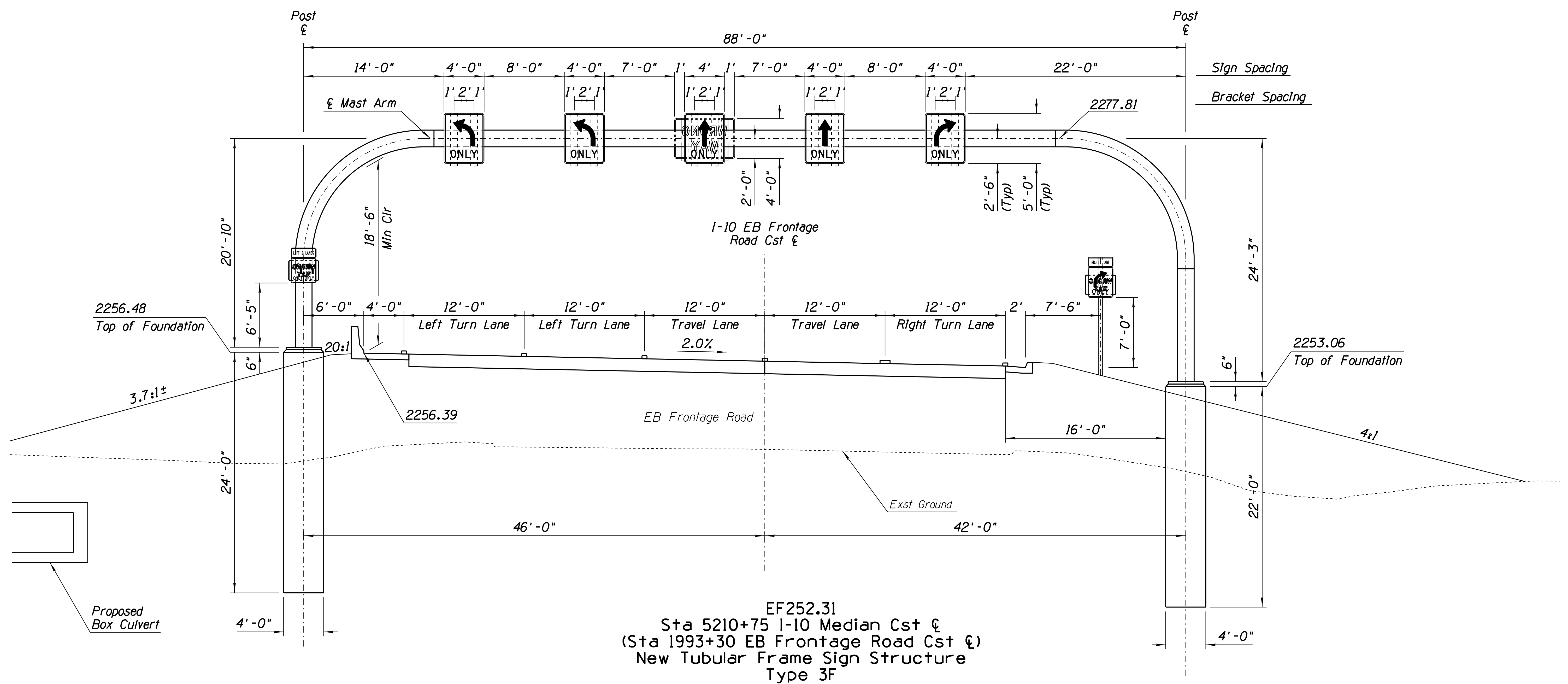
**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Structure and cross section information gathered from H6241 OIC as-built plans (sheet 638 of 1250).

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
		<small>WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701</small>		
ROUTE I-10		LOCATION RUTHRAUFF ROAD TI		
TRACS NO. H 8480 01D			010-D(213)S	
				EXPIRES 09/30/2019 DWG NO. T-10.13 OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	531	849	

010 PM 252



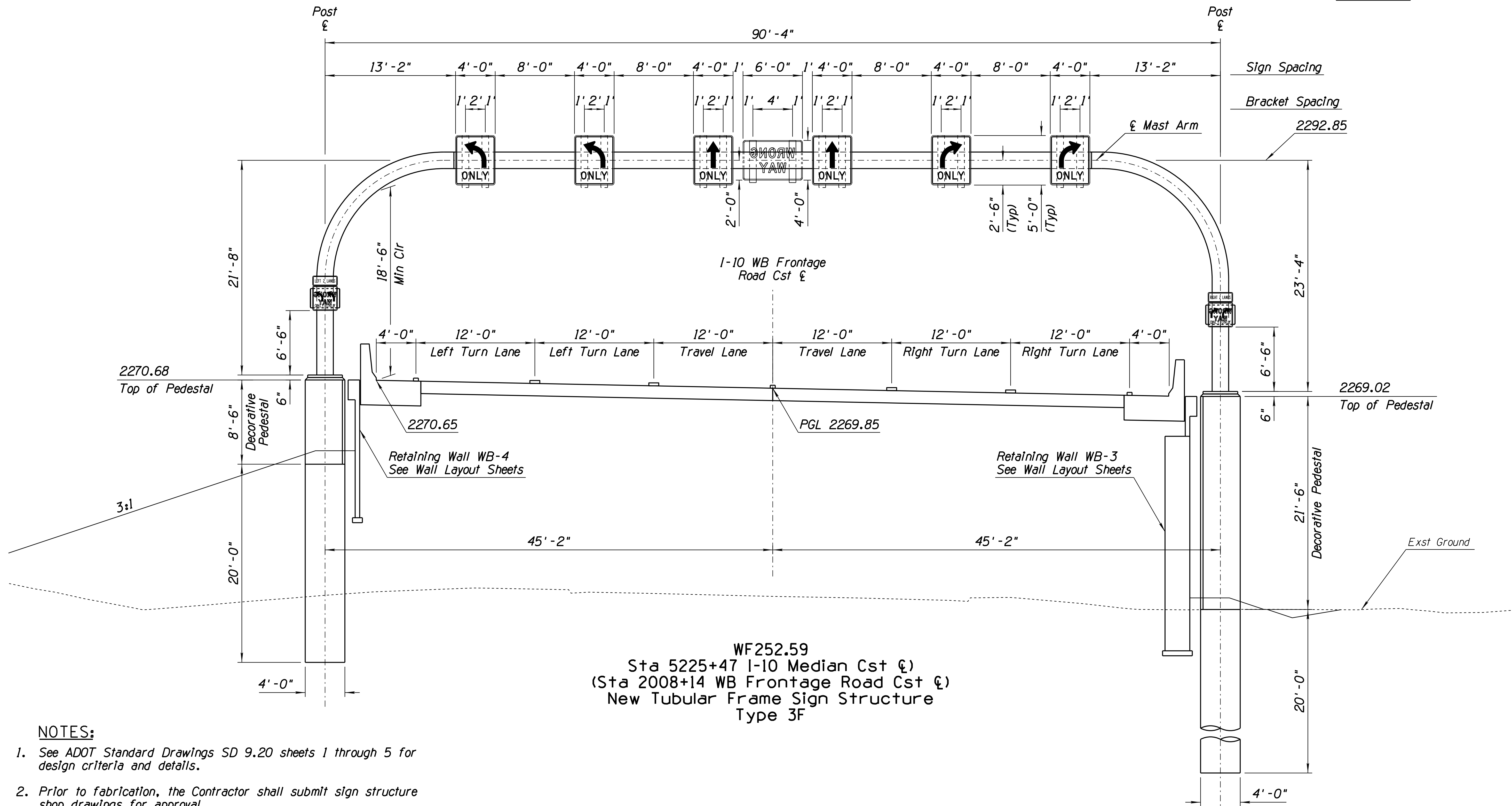
**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
<b>wsp</b>		WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701		
ROUTE		LOCATION		
I-10		RUTHRAUFF ROAD TI		EXPIRES 09/30/2019 DWG NO. T-10.14
TRACS NO. H 8480 OID		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	532	849	

010 PM 252



WF252.59  
 Sta 5225+47 I-10 Median Cst  $\xi$   
 (Sta 2008+14 WB Frontage Road Cst  $\xi$ )  
 New Tubular Frame Sign Structure  
 Type 3F

**NOTES:**

1. See ADOT Standard Drawings SD 9.20 sheets 1 through 5 for design criteria and details.
2. Prior to fabrication, the Contractor shall submit sign structure shop drawings for approval.
3. The structure column length is approximate. The actual elevation and column length shall be confirmed by the Contractor prior to submission of shop drawings and fabrication.
4. The Contractor shall field verify utility locations prior to excavation.
5. See Detail T2 for decorative pedestal detail.

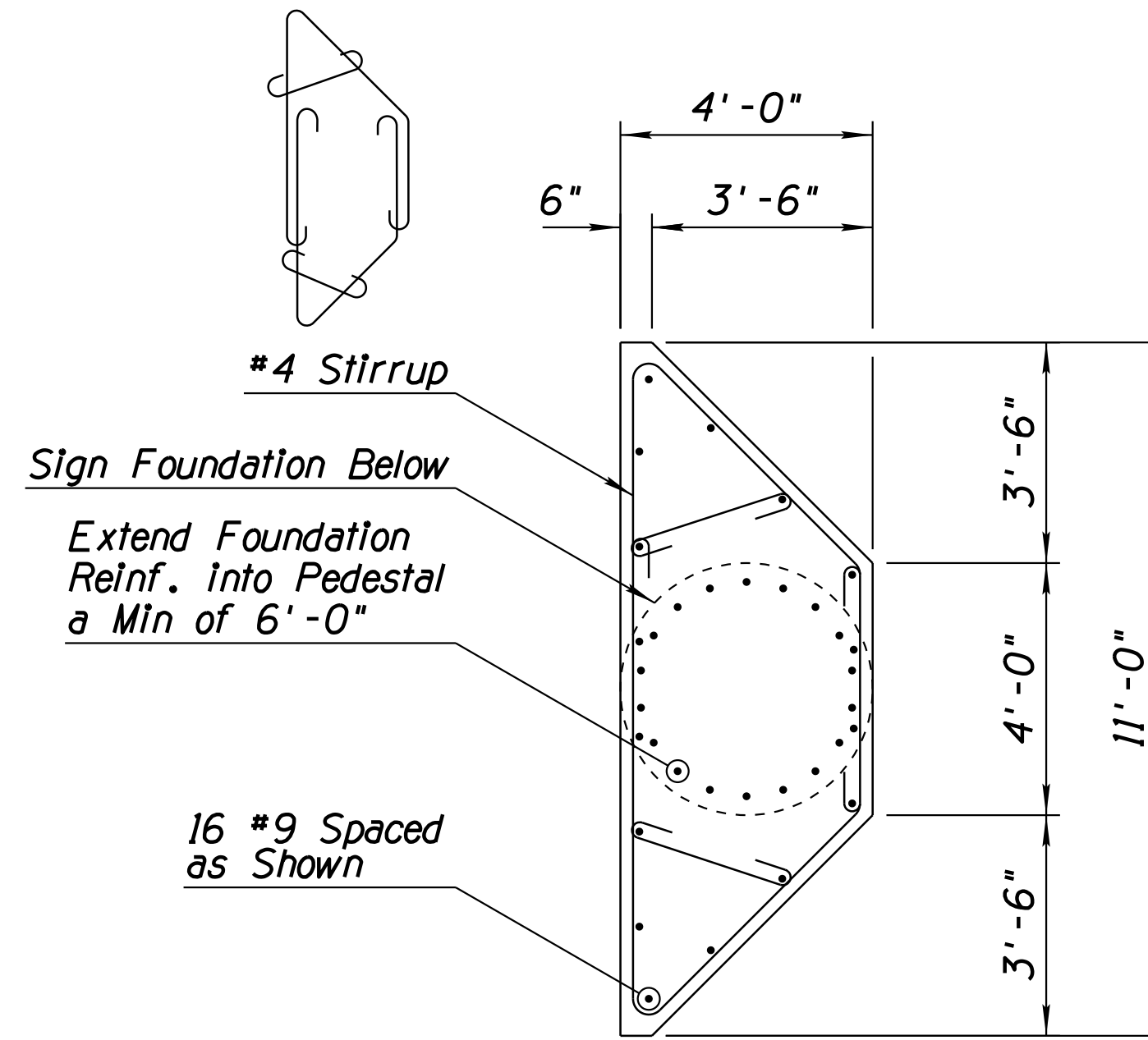
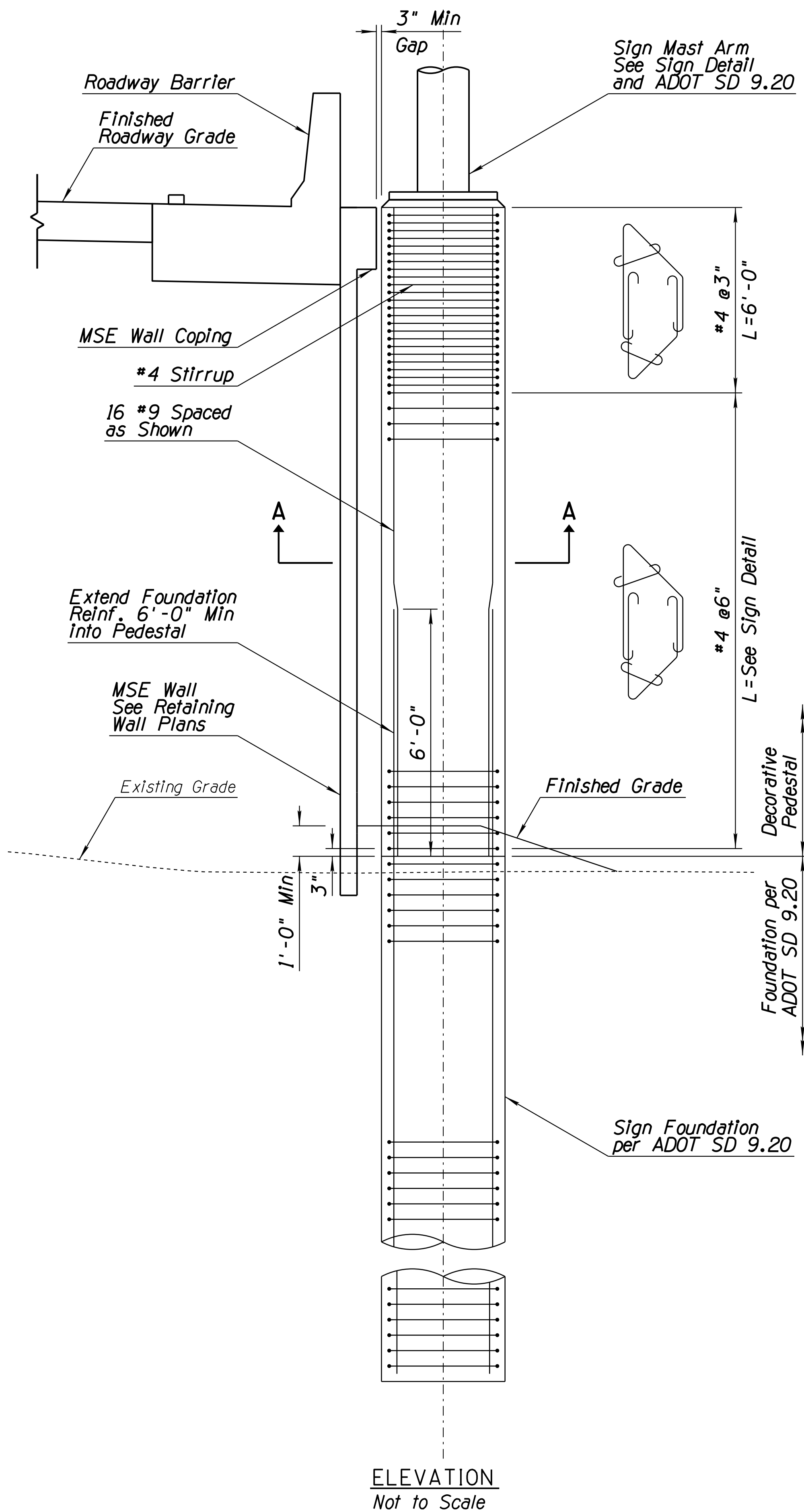
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	CPG	DATE	3-19	
CHECKED	JAV	DATE	3-19	
WSP USA Inc. 177 N. Church Ave. Suite 1105 Tucson, AZ 85701				SIGNING PLANS WF252.59 SIGN ELEVATION SHEET
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI	EXPIRES 09/30/2019 DWG NO. T-10.15
TRACS NO.	H 8480 01D		010-D(213)S	OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	534	849	

010 PM 252



# DETAIL T2

Sheet 1 of 1  
SIGN STRUCTURE  
AESTHETIC FOUNDATION

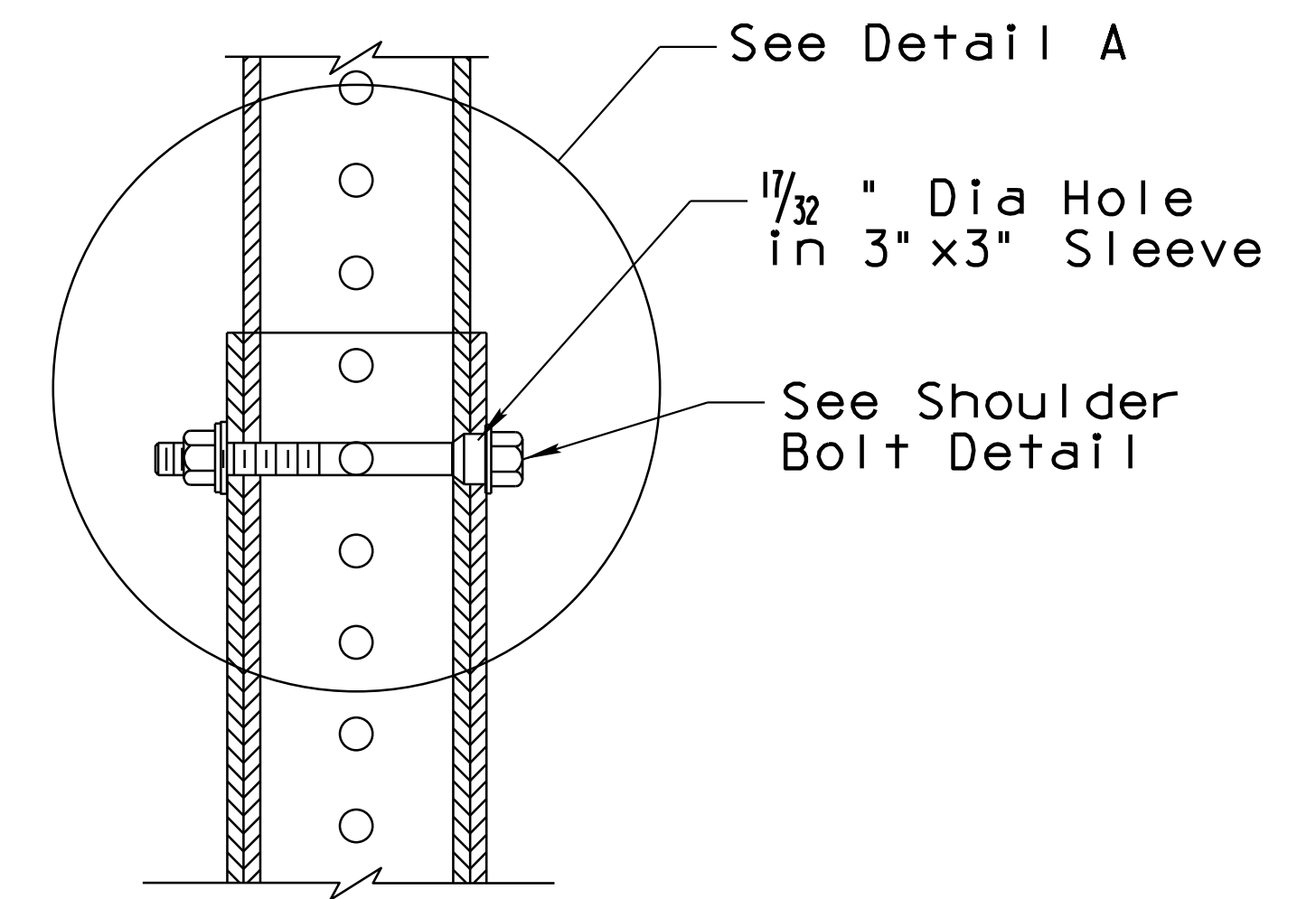
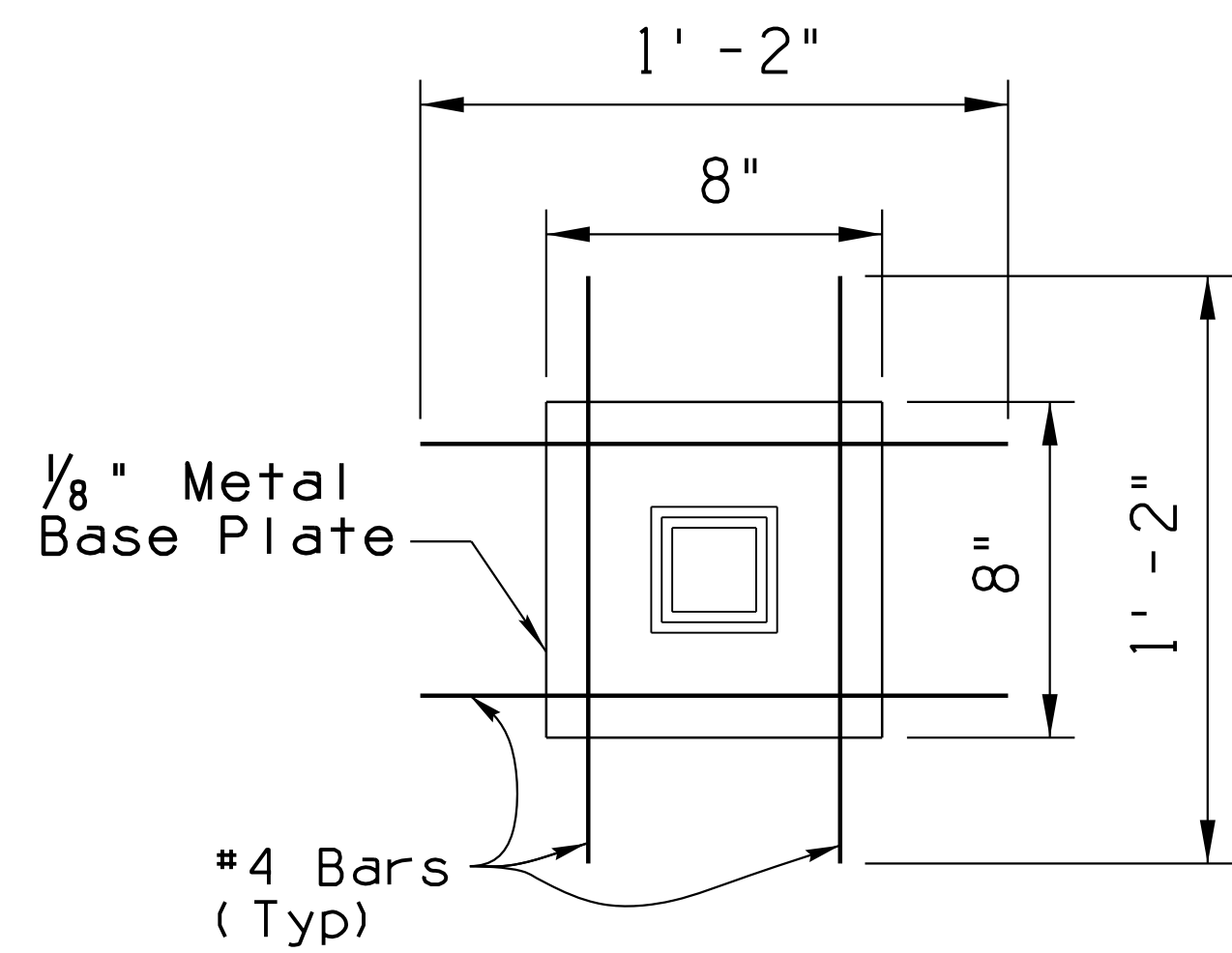
**NOTES:**

1. See Sign Detail sheet for geometric information.
2. For additional information, see ADOT SD 9.20.

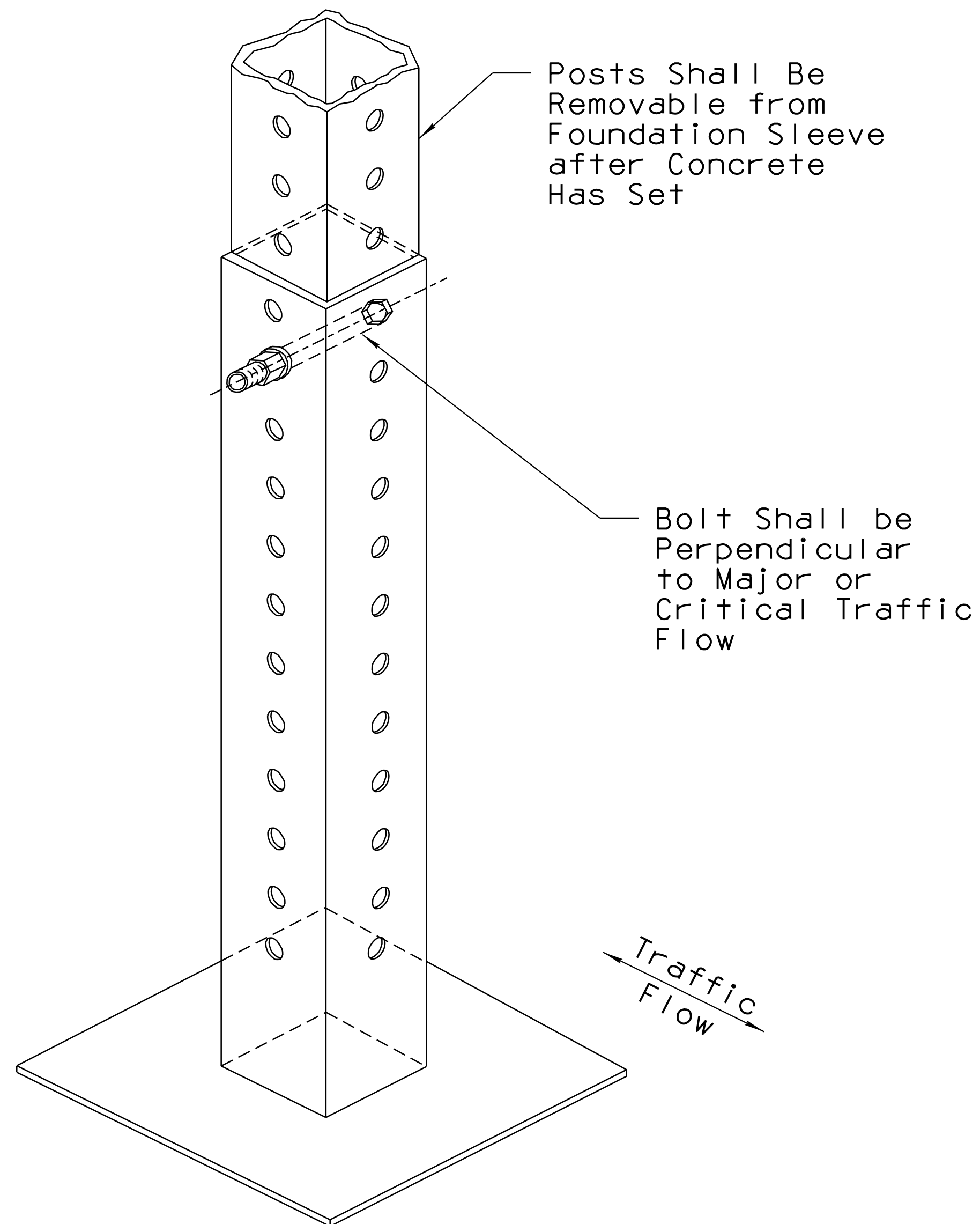
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
JAC		3-19		
CPG		3-19		
JAV		3-19		
			SIGN STRUCTURE AESTHETIC FOUNDATION DETAIL	
ROUTE	LOCATION	RUTHRAUFF ROAD T1		
1-10		TRACS NO. H 8480 OID		
		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	535	849	

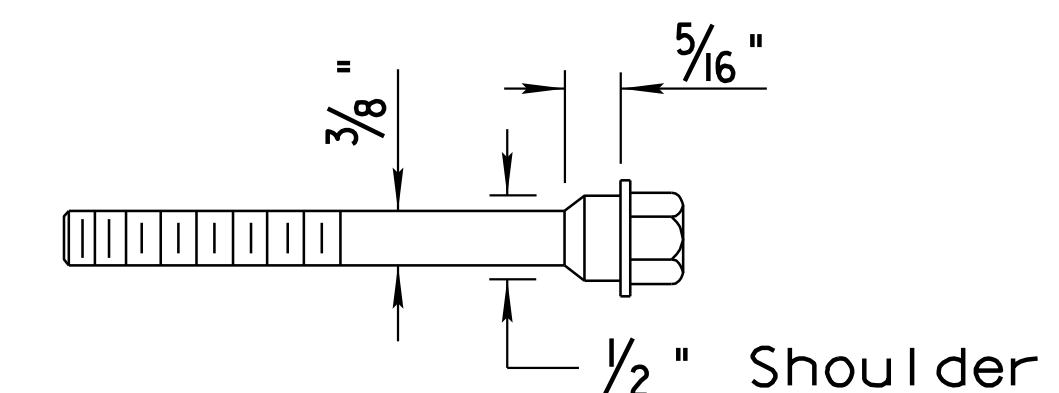
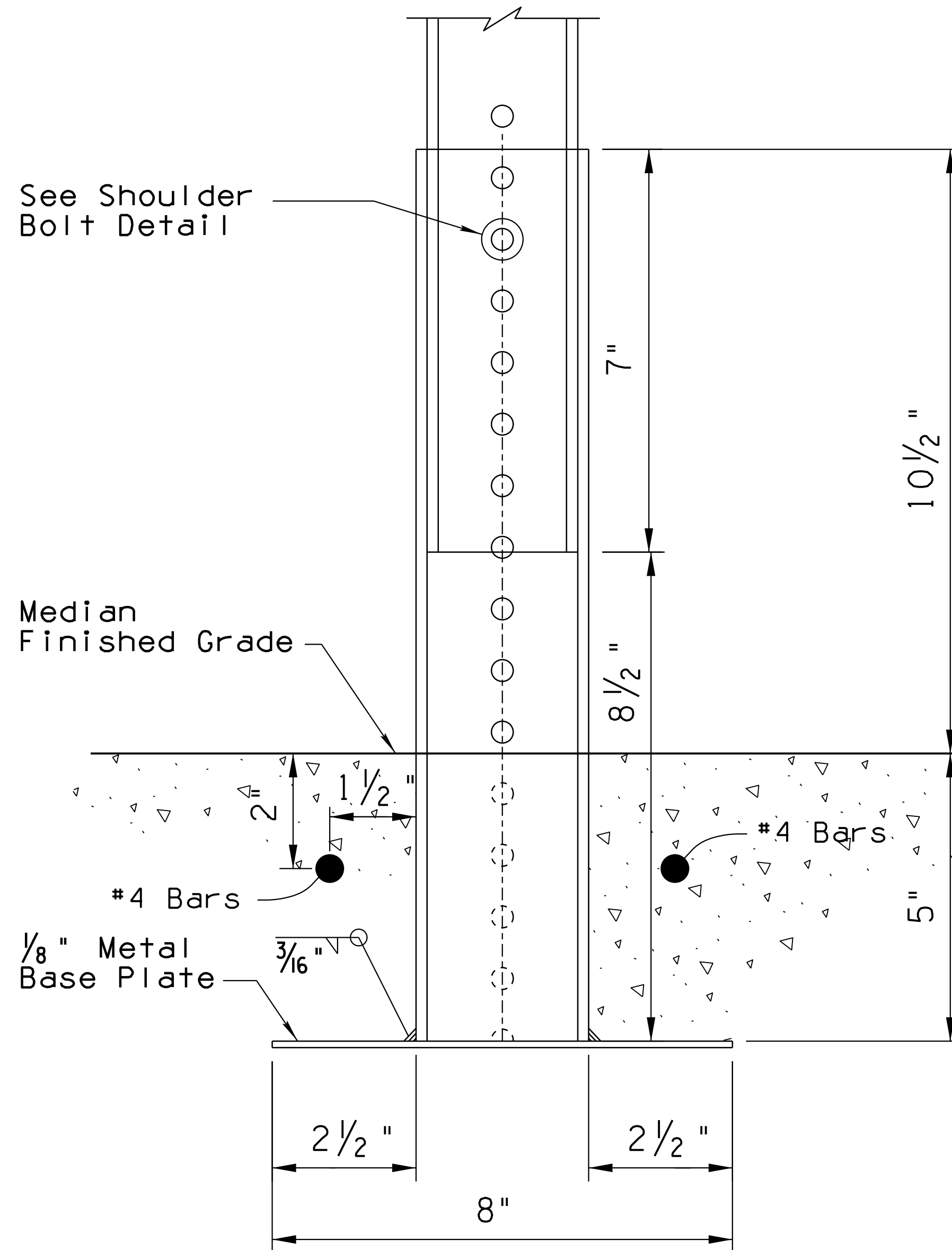
010 PM 252



2 1/2" SINGLE POLE METAL  
BASE PLATE FOUNDATION DETAIL



DETAIL A



SHOULDER BOLT

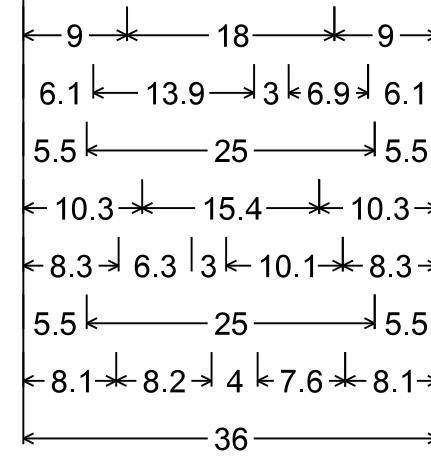
# DETAIL T3

Sheet 1 of 1  
BRIDGE MEDIAN SIGN FOUNDATION

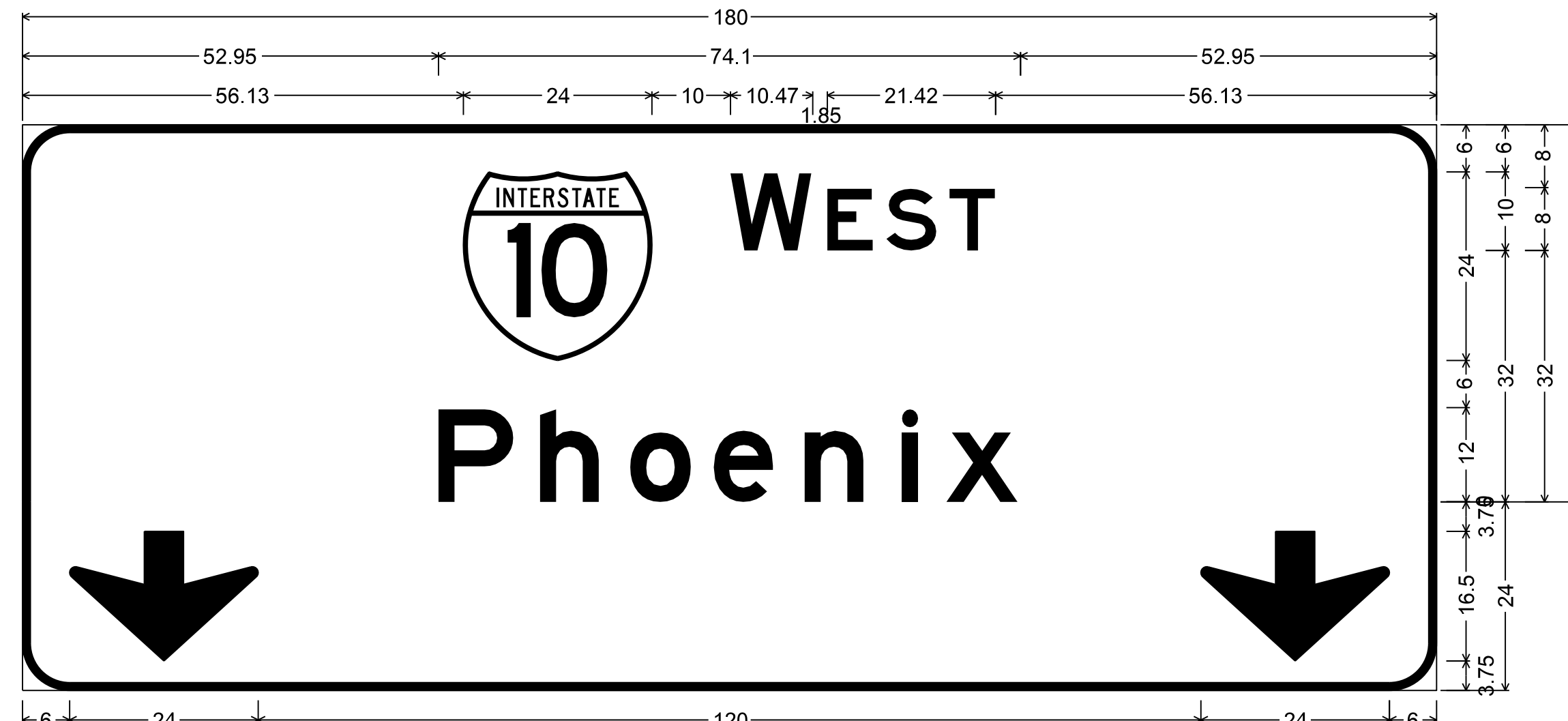
DESIGN	S.SIVAKUMAR	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	J.METRAILER	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		BRIDGE MEDIAN SIGN FOUNDATION DETAIL T3			
ROUTE	1-10	LOCATION	RUTHRAUFF T1	DWG NO. T-10.18	
TRACS NO. H8480 OIC			010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	536	849	

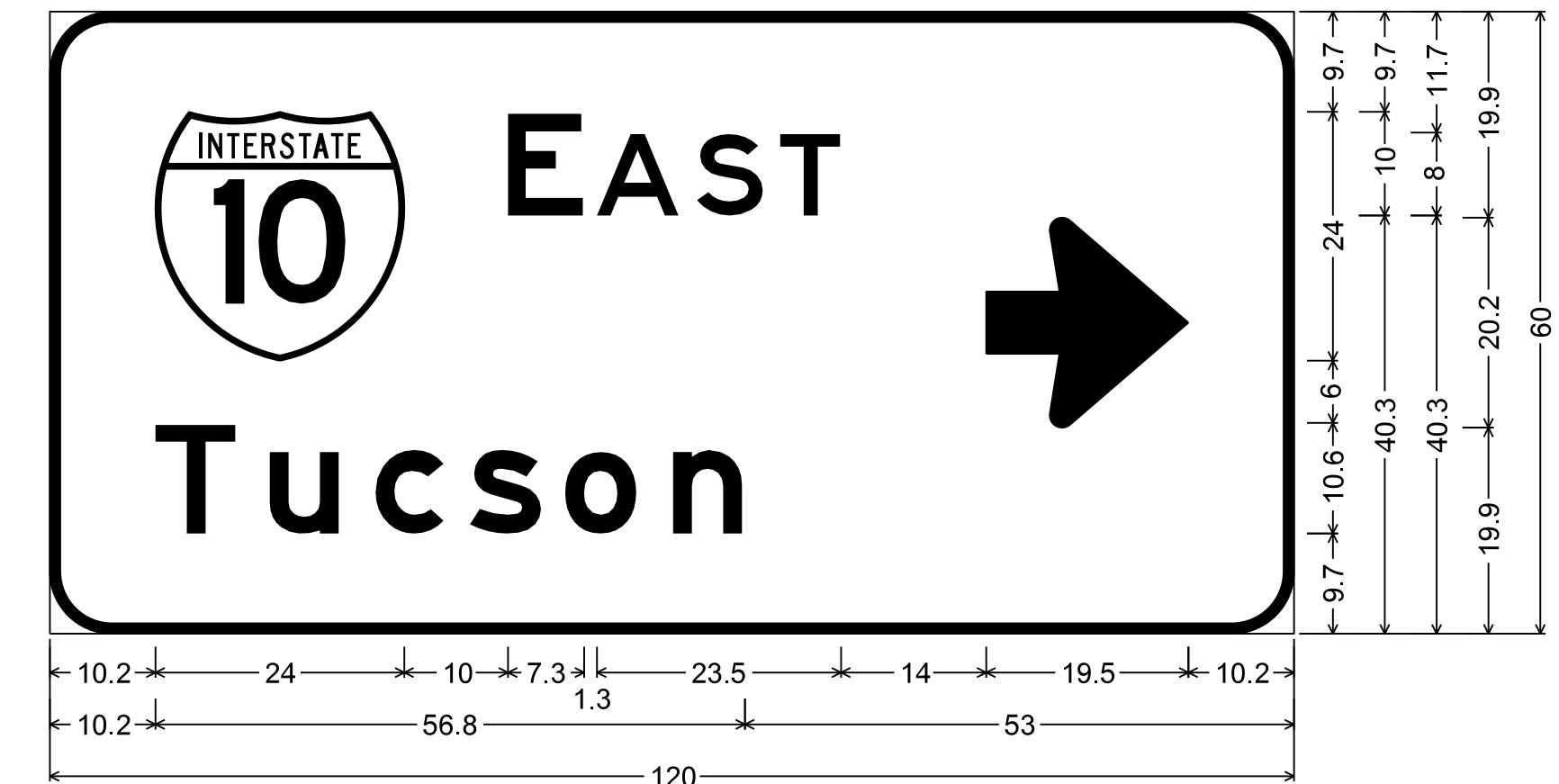
010 PM 252



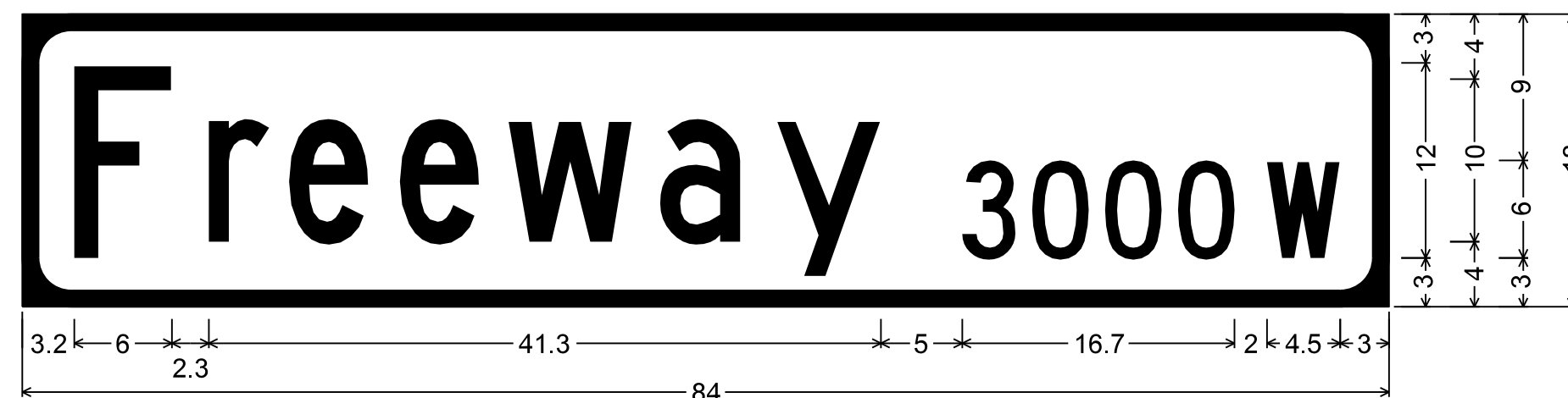
Ruthrauff Road Centerline, WB EW Sta: 85+59  
 Identifier : D7-101(conventional road);  
 3.0" Radius, 1.0" Border, White on Brown;  
 [CHRISTOPHER] B;  
 [COLUMBUS PARK] B;  
 [SILVERBELL] B;  
 [GOLF COURSE] B;  
 [NEXT LEFT] B;



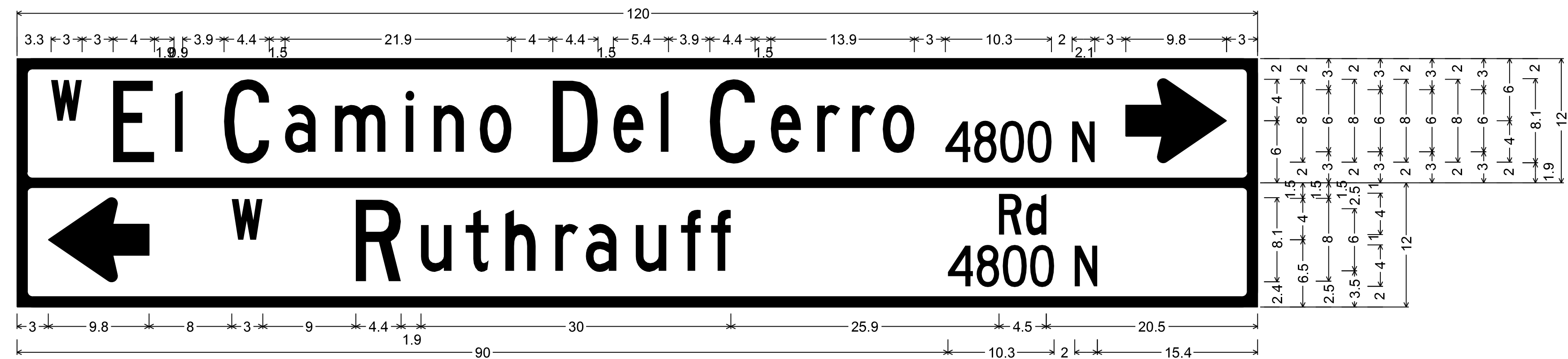
Ruthrauff Road Centerline, WB Sta: EE 94+00-A  
 6.00" Radius, 1.00" Border, White on Green;  
 [WEST] E; [Phoenix] E;  
 6.00" Radius, 1.00" Border, White on Green;  
 Down Arrow 12" - 16.50" 270°; Down Arrow 12" - 16.50" 270°;



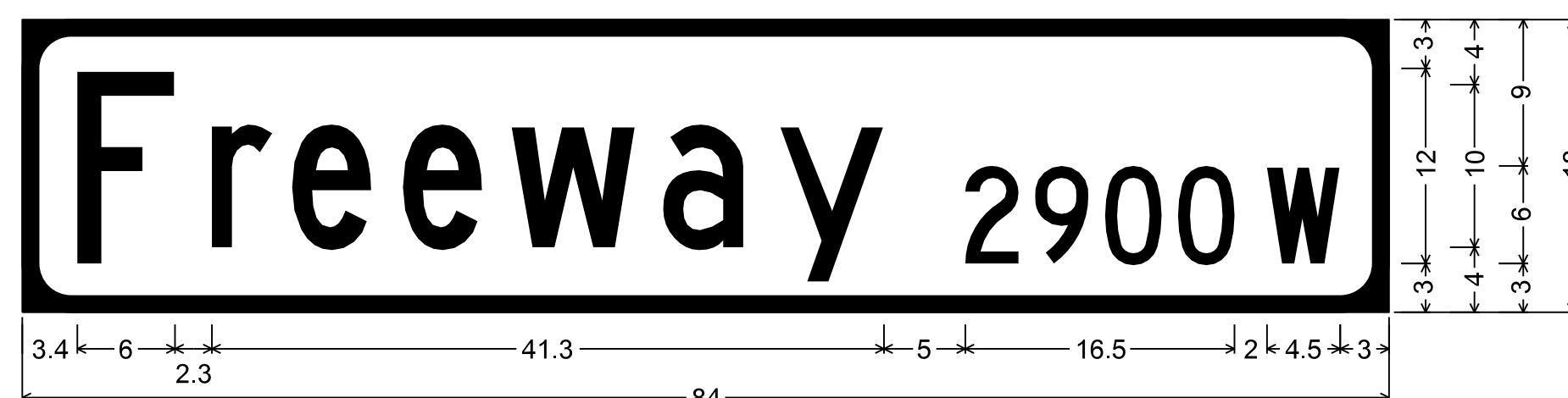
Ruthrauff Road Centerline, WB Sta: EE 94+00-B  
 Identifier : D1-105a (ramp-crossroad);  
 6.0" Radius, 1.0" Border, White on Green;  
 [EAST] E; [Tucson] E; Arrow 12" Type D3 - 0°;



Ruthrauff Road Centerline, EB Sta: EE 98+51  
 WB Sta: RW 96+67  
 3.0" Radius, 1.0" Border, White on Green;  
 [Freeway] C; [3000] C; [W] C;



Ruthrauff Road Centerline, SB Sta: EE 97+91  
 1.5" Radius, 1.0" Border, White on Green;  
 [W] C; [El] C; [Camino] C; [Del] C; [Cerro] C; [4800 N] C 50% spacing; Arrow 6" Type D1 - 0°;  
 1.5" Radius, 1.0" Border, White on Green;  
 Arrow 6" Type D1 - 180°; [W] C; [Ruthrauff] C; [Rd] C 50% spacing; [4800 N] C 50% spacing;

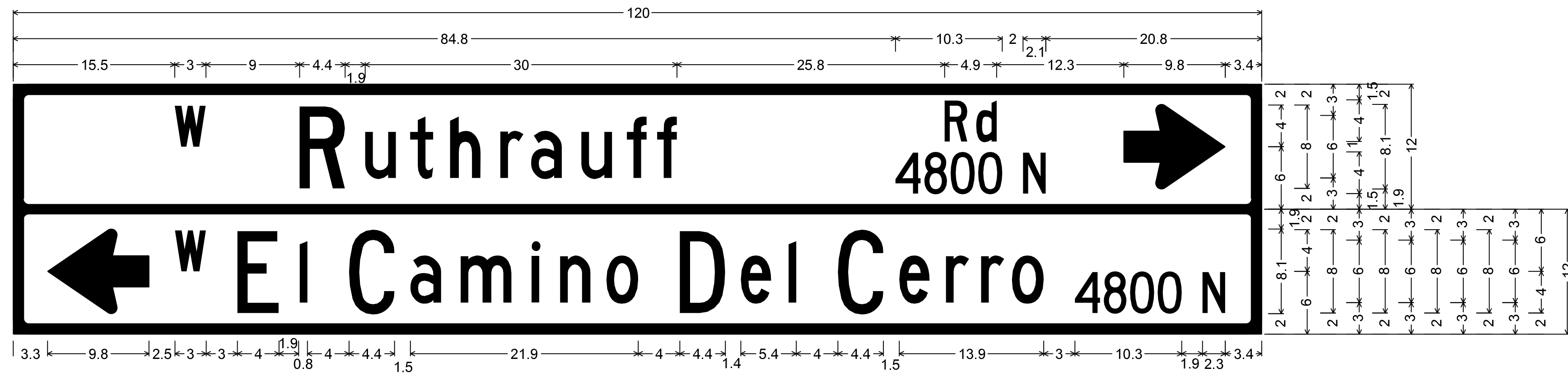


Ruthrauff Road Centerline, EB Sta: RE 103+10  
 WB Sta: RW 101+29  
 3.0" Radius, 1.0" Border, White on Green;  
 [Freeway] C; [2900] C; [W] C;

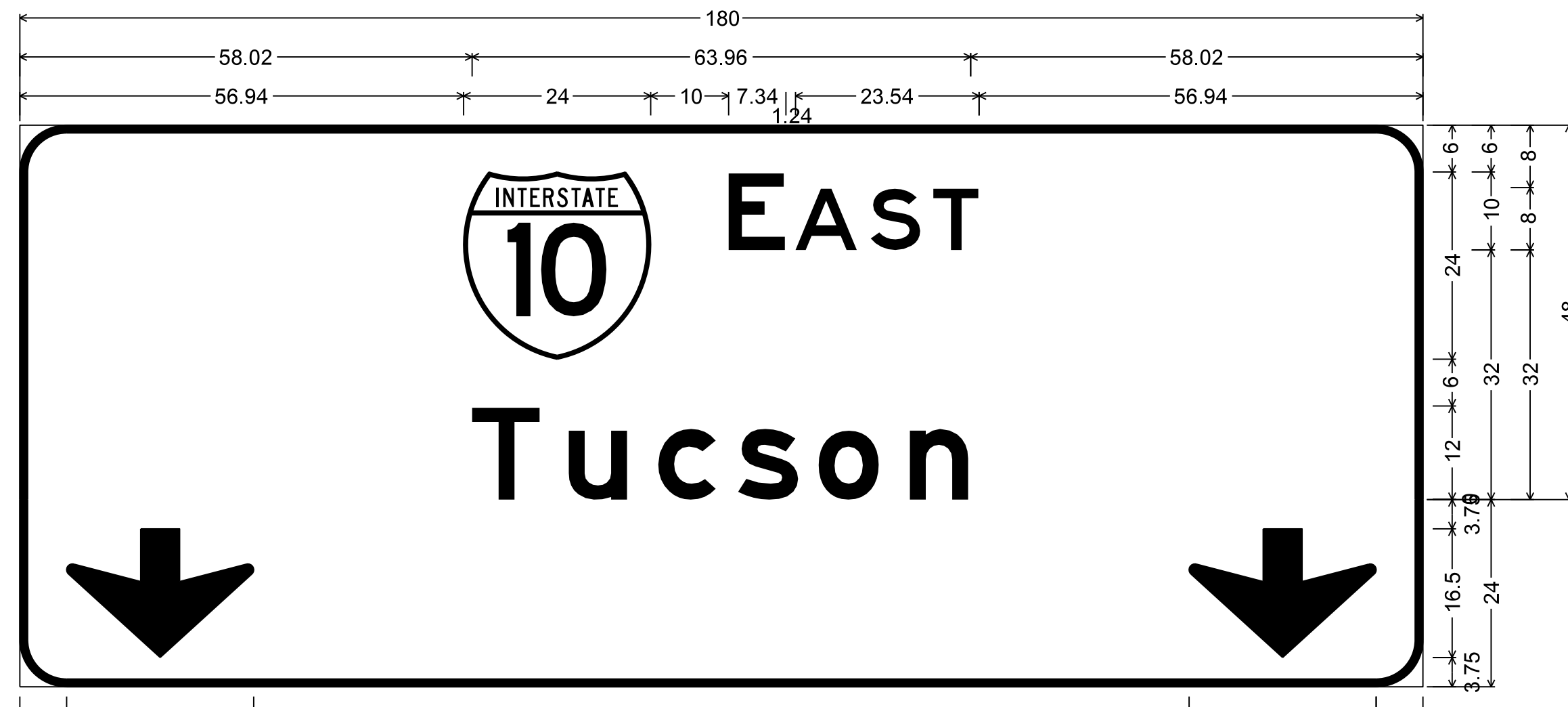
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	A. HATHCOCK	3-19			
CHECKED	V. CASTANEDA	3-19			
			RUTHRAUFF ROAD SIGN FORMAT SHEETS		
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			DWG NO. T-11.01		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	537	849	

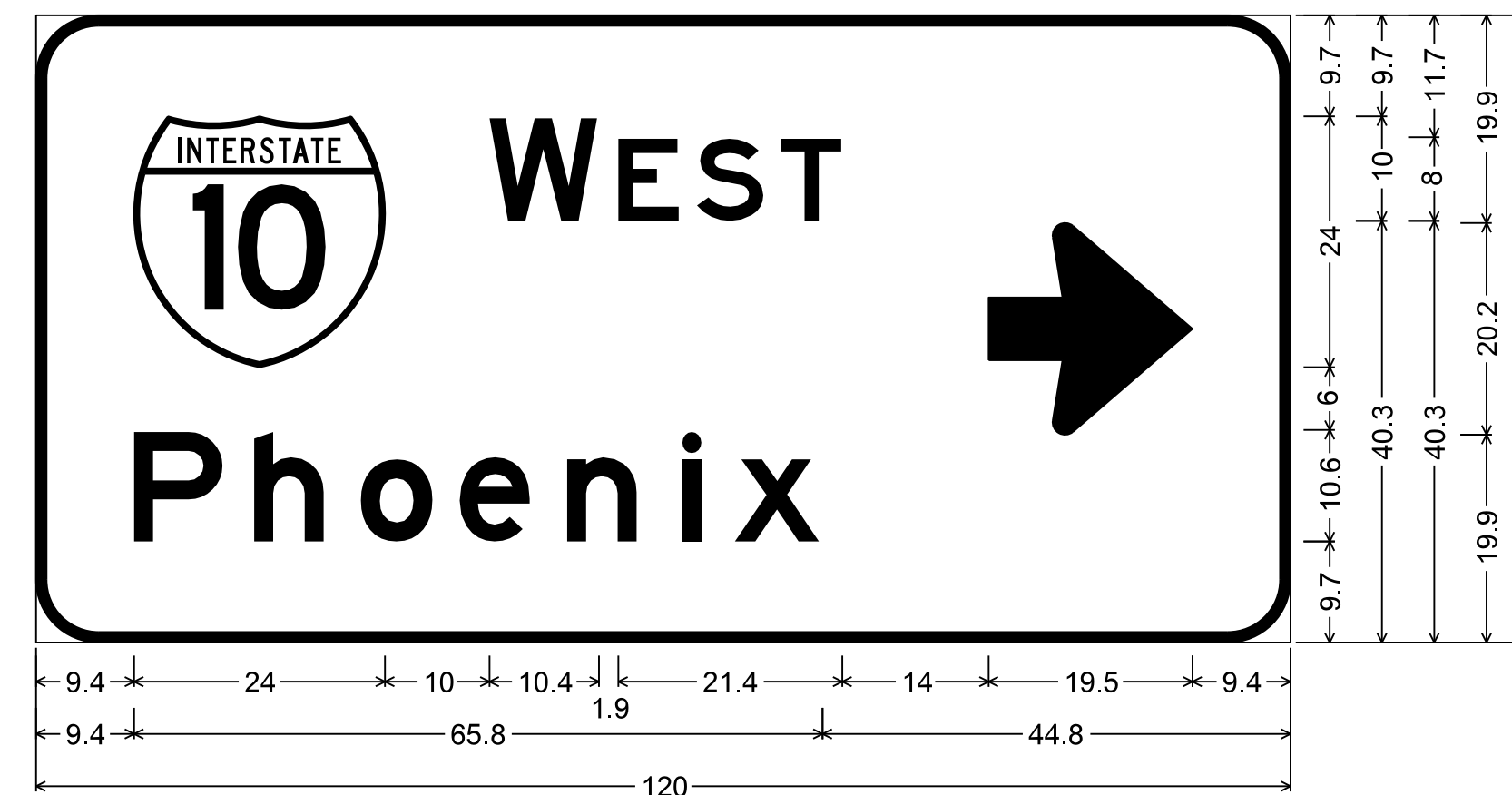
010 PM 252



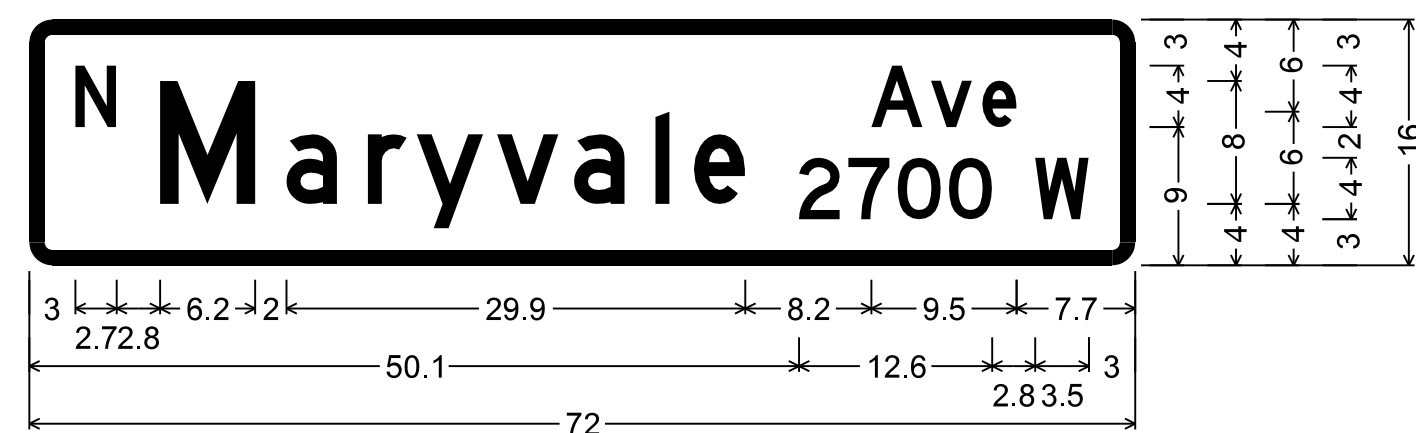
Ruthrauff Road Centerline, NB Sta: EW 101+87  
 1.5" Radius, 1.0" Border, White on Green;  
 [W] C; [Ruthrauff] C; [Rd] C; [4800 N] C 50% spacing; Arrow 6" Type D1 - 0°;  
 1.5" Radius, 1.0" Border, White on Green;  
 Arrow 6" Type D1 - 180°; [W] C; [El] C; [Camino] C; [Del] C; [Cerro] C; [4800 N] C 50% spacing;



Ruthrauff Road Centerline, EB Sta: RW 107+25-A  
 6.00" Radius, 1.00" Border, White on Green;  
 [EAST] E; [Tucson] E;  
 6.00" Radius, 1.00" Border, White on Green;  
 Down Arrow 12" - 16.50" 270°; Down Arrow 12" - 16.50" 270°;



Ruthrauff Road Centerline, EB Sta: RW 107+25-B  
 Identifier : D1-105a (ramp-crossroad);  
 6.0" Radius, 1.0" Border, White on Green;  
 [WEST] E; [Phoenix] E; Arrow 12" Type D3 - 0°;

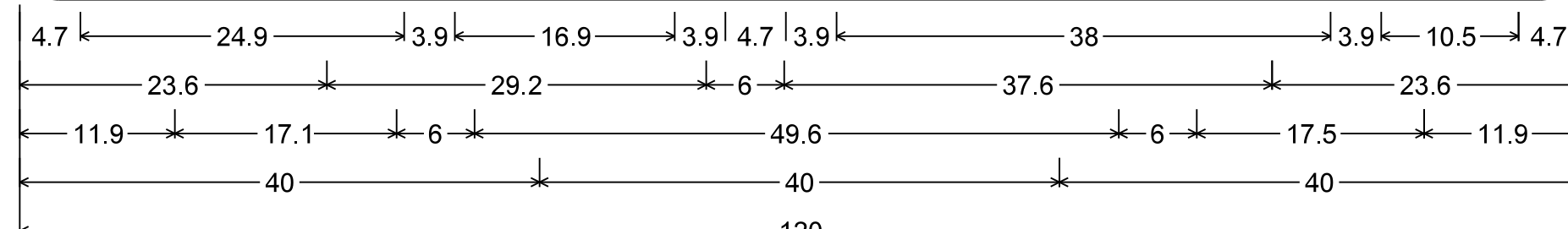


Ruthrauff Road Centerline, EB RE Sta: 115+60, WB RW 114+25  
 Identifier : D3;  
 1.5" Radius, 1.0" Border, White on Green;  
 [N] D; [Maryvale] D; [Ave] D; [2700 W] D 70% spacing;

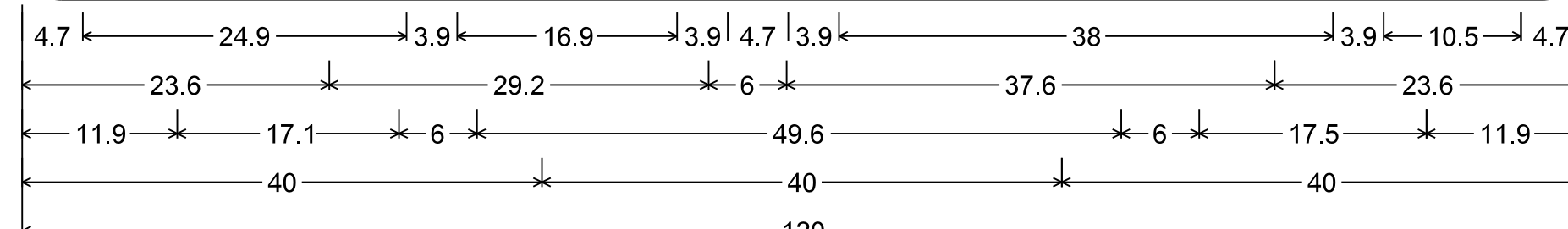
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley-Horn</b>		RUTHRAUFF ROAD SIGN FORMAT SHEETS			
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	538	849	

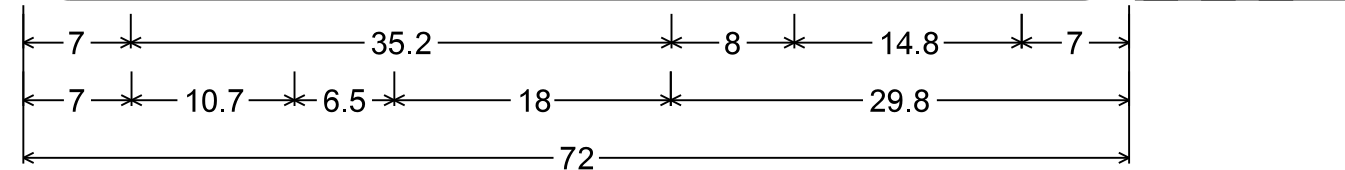
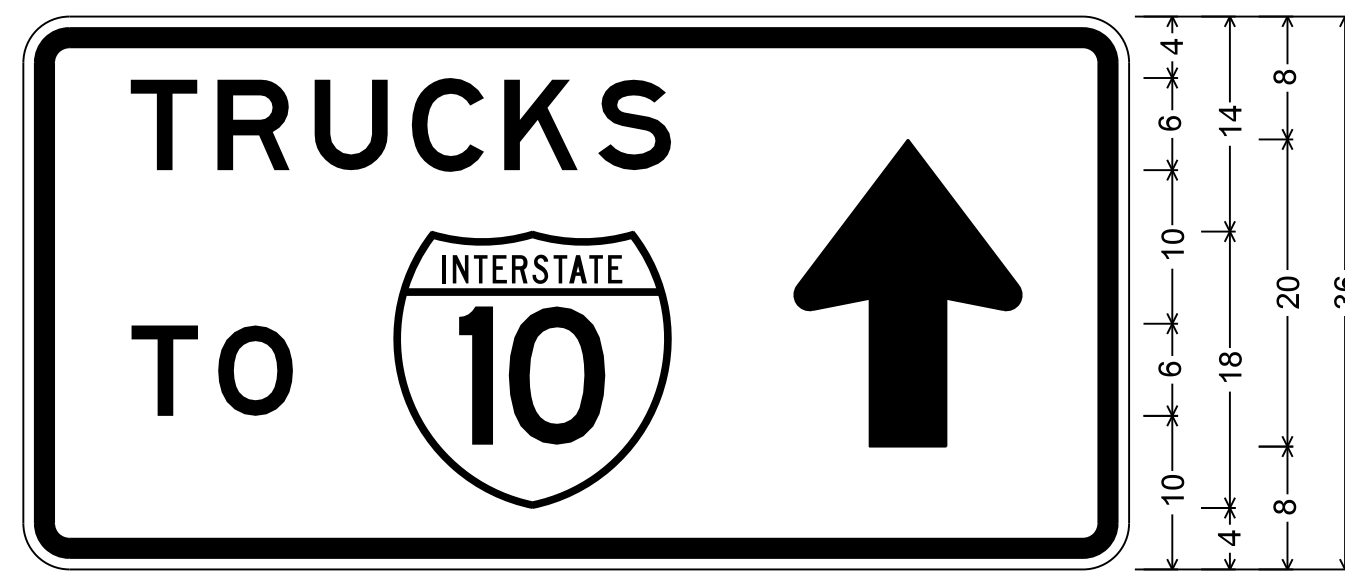
010 PM 252



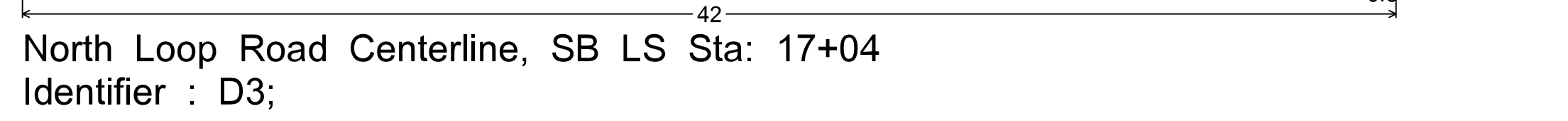
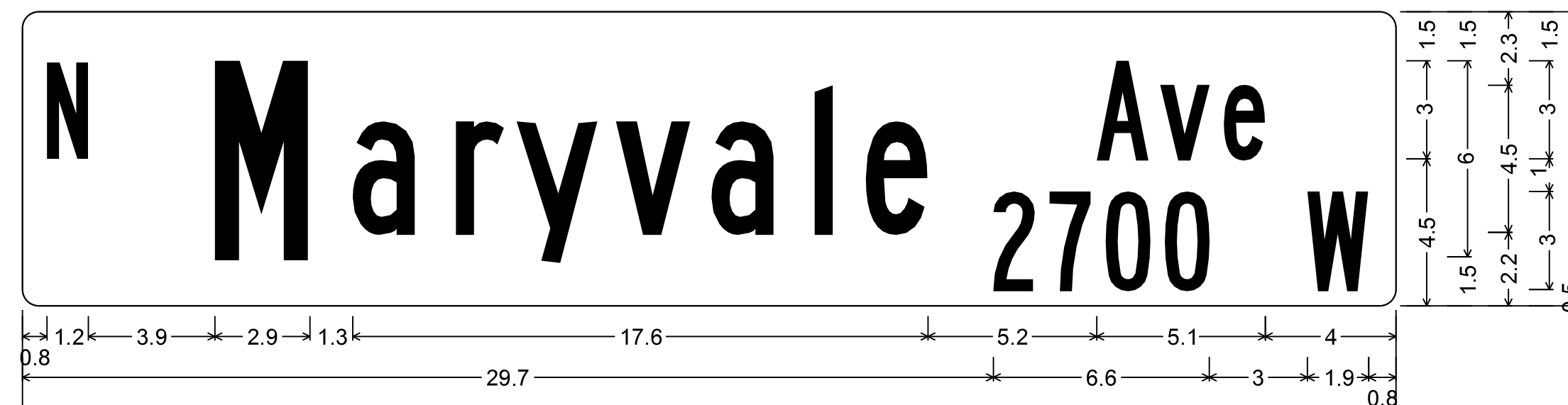
Ruthrauff Road Centerline, EB Sta: RE 109+12  
 3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;  
 [DAVIS AVE / HIGHWAY DR] E 65% spacing; [TRUCK TRAFFIC] E;  
 [USE MARYVALE AVE] E;  
 Arrow Custom - 180°;



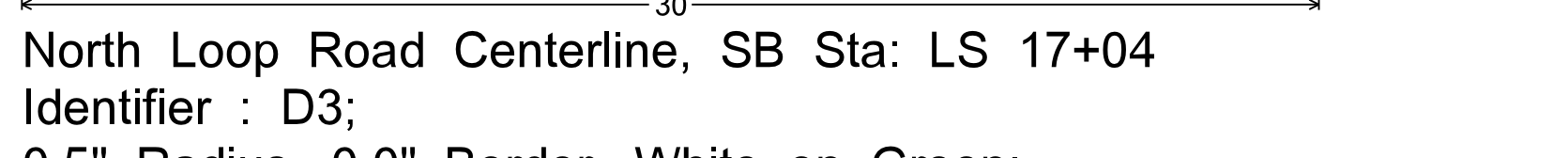
Ruthrauff Road Centerline, WB Sta: RW 120+70  
 3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;  
 [DAVIS AVE / HIGHWAY DR] E 65% spacing; [TRUCK TRAFFIC] E;  
 [USE MARYVALE AVE] E; Arrow Custom - 0°;



Davis Avenue/Highway Drive Centerline, NB Sta: HN 26+26  
 3.0" Radius, 1.25" Border, 0.75" Indent, White on Green;  
 [TRUCKS] E; [TO] E; Arrow Custom - 90°;



North Loop Road Centerline, SB LS Sta: 17+04  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Maryvale] B; [Ave] B; [2700 W] B;

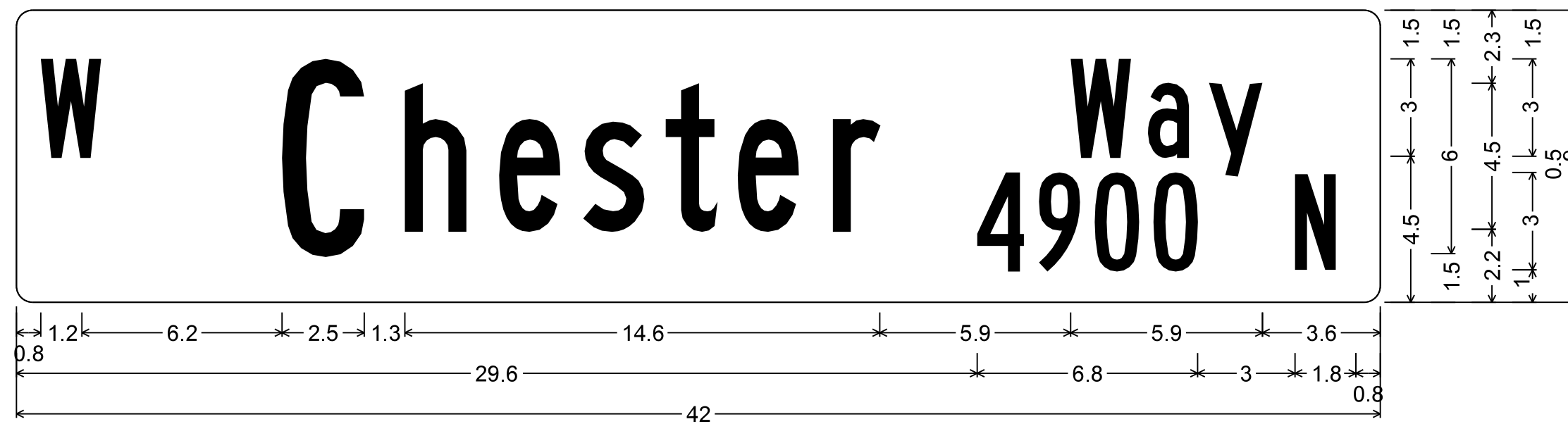


North Loop Road Centerline, SB Sta: LS 17+04  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Chester] B; [Way] B; [4900 W] B;

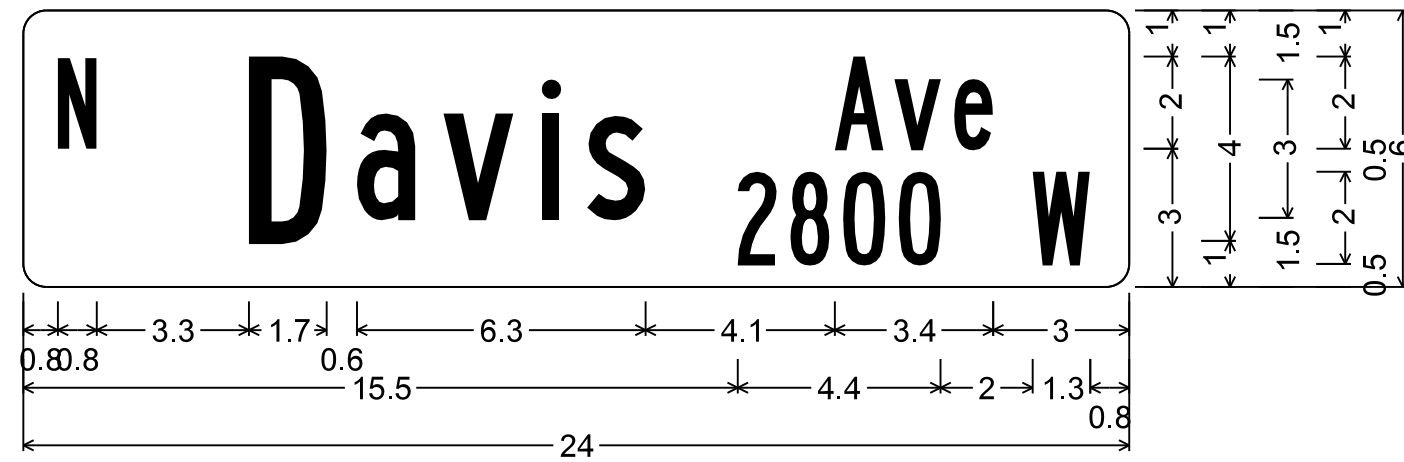
DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD SIGN FORMAT SHEETS			
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-11.03	
TRACS NO. H8480 OIC			010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	539	849	

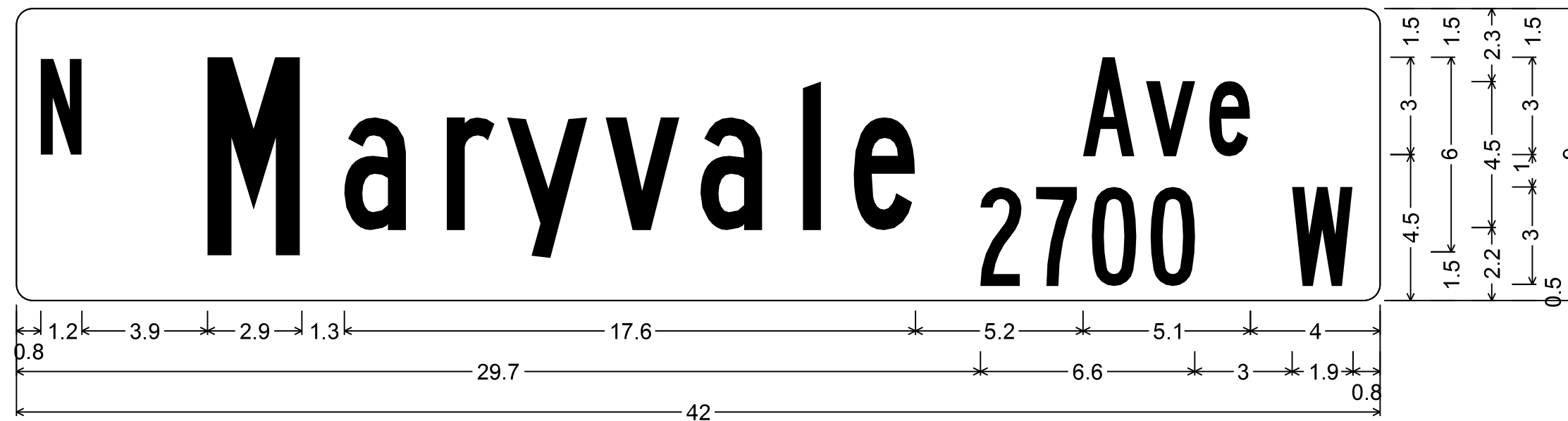
010 PM 252



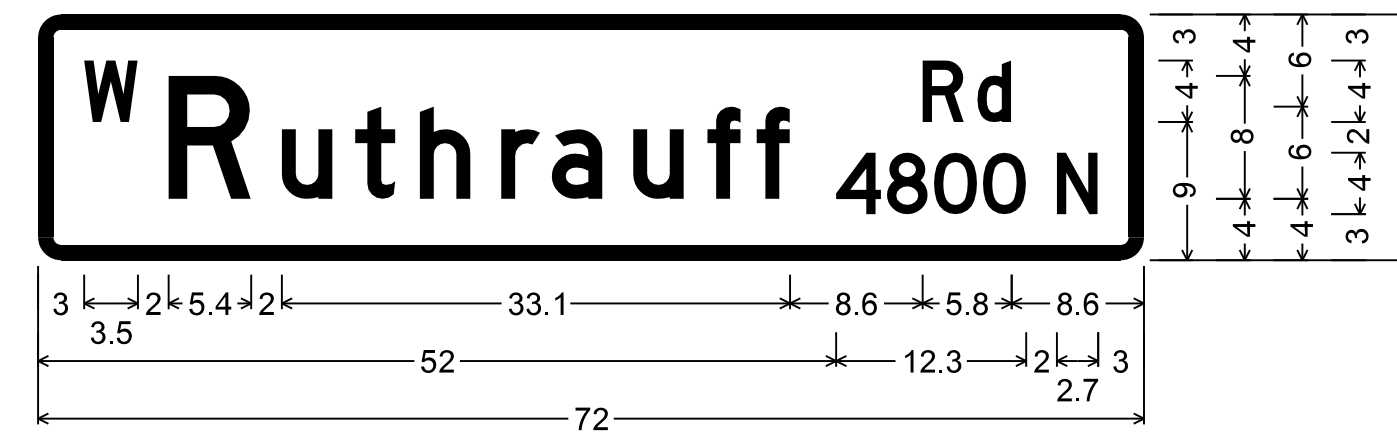
North Loop Road Centerline, NB LN Sta: 11+71  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Chester] B; [Way] B; [4900 W] B;



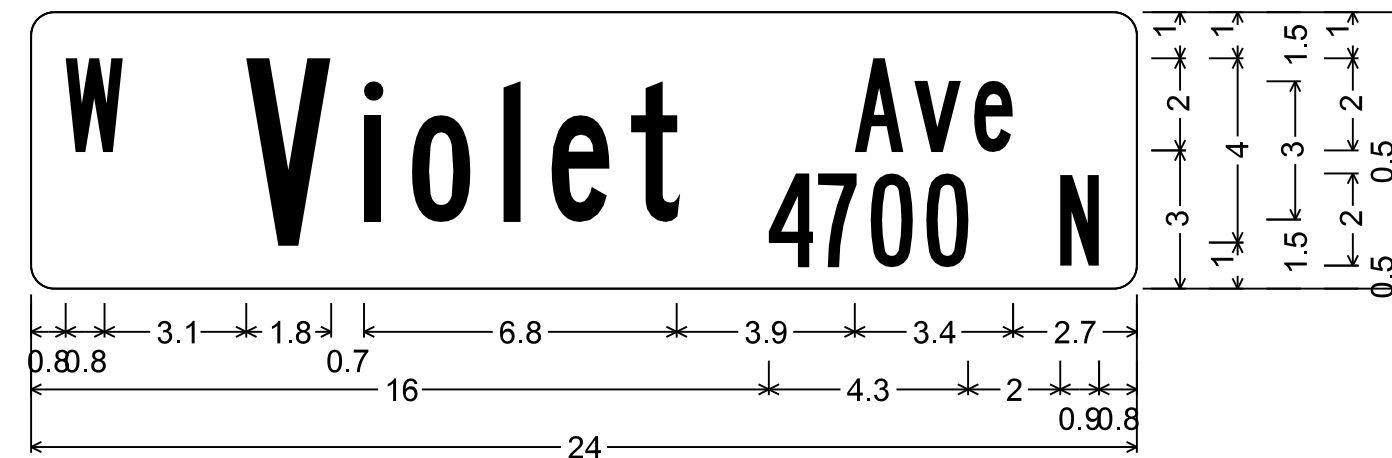
North Loop Road Centerline, WB LN Sta: 11+71  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Davis] B; [Ave] B; [2800 W] B;



South Maryvale Avenue Centerline, SB MS Sta: 24+01  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Maryvale] B; [Ave] B; [2700 W] B;



South Maryvale Avenue Centerline, SB MS Sta: 20+75, NB LN 19+19  
 Identifier : D3;  
 1.5" Radius, 1.0" Border, White on Green;  
 [W] D; [Ruthrauff] D; [Rd] D; [4800 N] D 50% spacing;



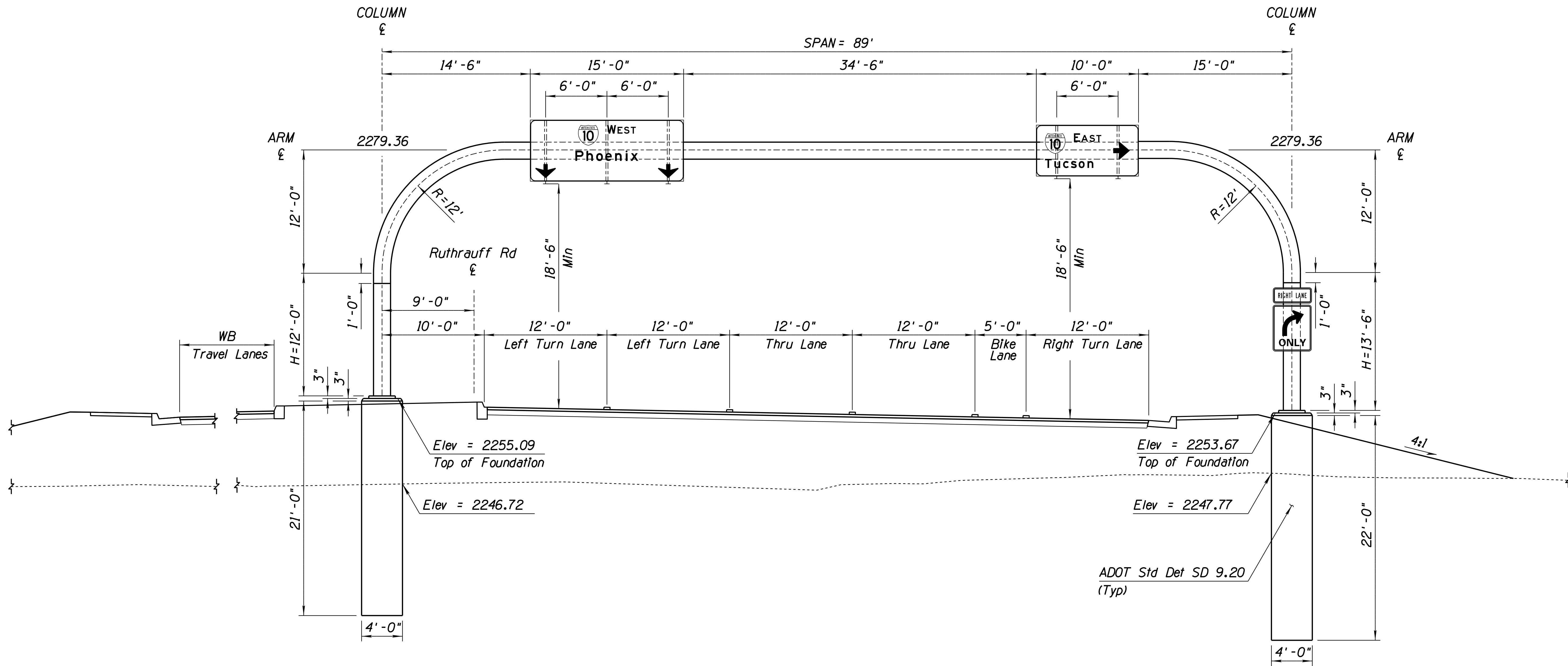
South Maryvale Avenue Centerline, SB MS Sta: 24+01  
 Identifier : D3;  
 0.5" Radius, 0.0" Border, White on Green;  
 [N] B; [Violet] B; [Ave] B; [4700 N] B;

DESIGN	A. HATHCOCK	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	V. CASTANEDA	DATE	3-19		
CHECKED	A. HATHCOCK	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD SIGN FORMAT SHEETS	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. T-11.04 OF	

SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	540	849	

010 PM 252



**NOTES:**

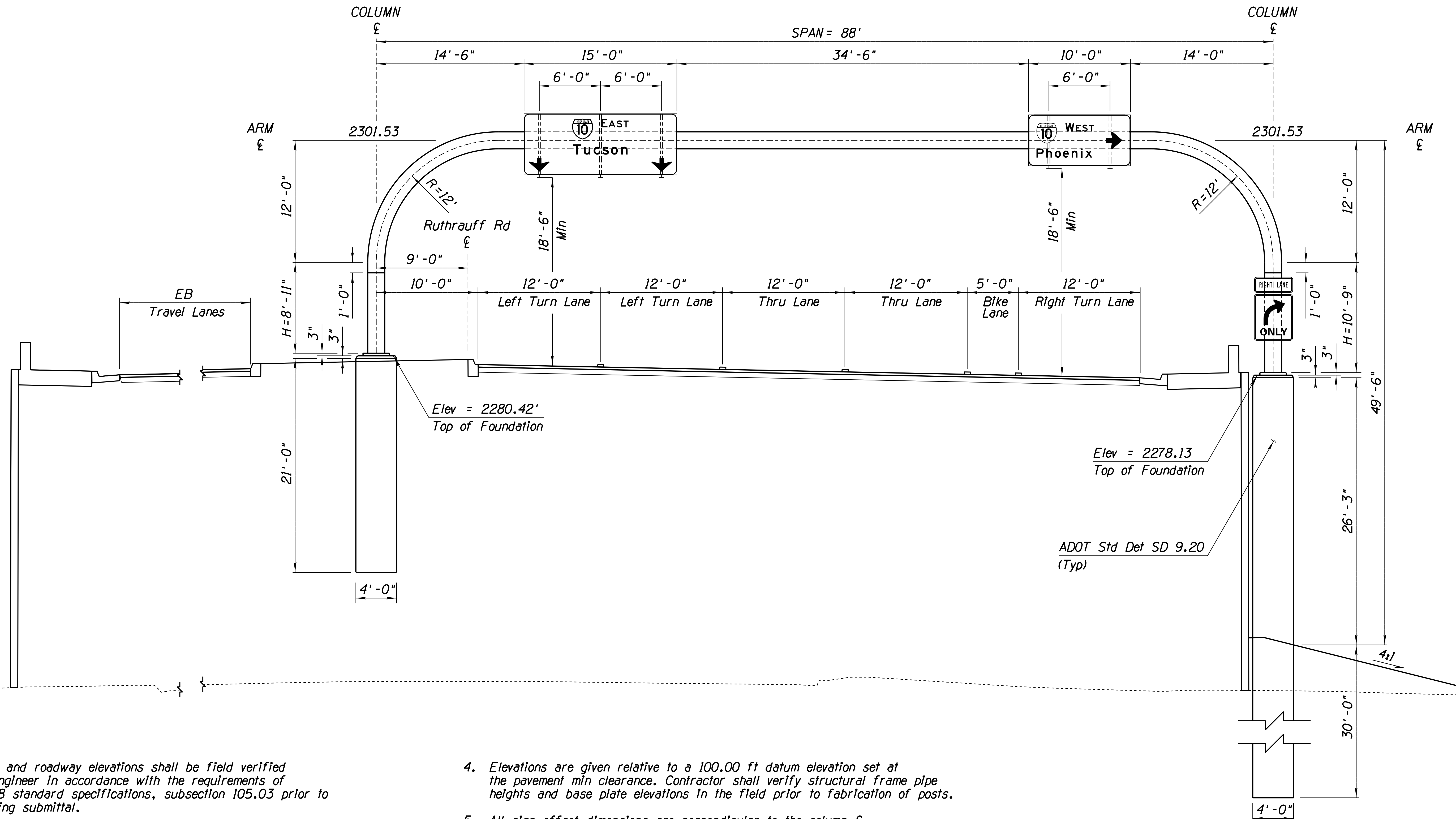
- Foundation and roadway elevations shall be field verified with the engineer in accordance with the requirements of ADOT 2008 standard specifications, subsection 105.03 prior to shop drawing submittal.
- See ADOT signing and marking detail drawing S-11 (sheet 1 of 2 And 2 of 2) for design criteria details.
- Contractor shall field verify location of all utilities prior to excavation.
- Elevations are given relative to a 100.00 ft datum elevation set at the pavement min clearance. Contractor shall verify structural frame heights and base plate elevations in the field prior to fabrication of posts.
- All sign offset dimensions are perpendicular to the column  $\epsilon$ .
- Sign structure component dimensions are approximate. Prior to construction of foundation, submit diagram and measurements to the engineer for review, ensuring correct top of foundation elevation and anchor bolt pattern and elevation to provide a minimum 18'-6" clearance.

DESIGN	A. HATHCOCK	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	V. CASTANEDA	3-19			
CHECKED	A. HATHCOCK	3-19			
			SIGN STRUCTURE ELEVATION VIEW RUTHRAUFF EASTBOUND SIGN EE 94+00 A-B-C		
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. T-11.05	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	541	849	

010 PM 252



**NOTES:**

1. Foundation and roadway elevations shall be field verified with the engineer in accordance with the requirements of ADOT 2008 standard specifications, subsection 105.03 prior to shop drawing submittal.
2. See ADOT signing and marking detail drawing S-11 (sheet 1 of 2 And 2 of 2) for design criteria details.
3. Contractor shall field verify location of all utilities prior to excavation.
4. Elevations are given relative to a 100.00 ft datum elevation set at the pavement min clearance. Contractor shall verify structural frame pipe heights and base plate elevations in the field prior to fabrication of posts.
5. All sign offset dimensions are perpendicular to the column centerline.
6. Sign structure component dimensions are approximate. Prior to construction of foundation, submit diagram and measurements to the engineer for review, ensuring correct top of foundation elevation and anchor bolt pattern and elevation to provide a minimum 18'-6" clearance.

DESIGN	A. HATHCOCK	4-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	V. CASTANEDA	4-19			
CHECKED	A. HATHCOCK	4-19			
<b>Kimley-Horn</b> © 2019 KIMLEY-HORN AND ASSOCIATES, INC.			<b>SIGN STRUCTURE ELEVATION VIEW</b> RUTHRAUFF WESTBOUND SIGN RW 107+20 A-B-C		
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			DWG NO. T-11.06 OF		

ADOT SIGNAL GENERAL NOTES

ADOT SIGNAL GENERAL NOTES (CONT.)

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	542	849	
010 PM 252					

1. All materials and installation shall conform to the 2008 Standard Specifications and the most recent Traffic Signal and Lighting Standard Drawings.
2. The locations of utilities shown on the plans are approximate. All involved utilities may not be shown on the plans. The Contractor shall be responsible, per Section 730-6 of the Standard Specifications, for contacting all utilities for exact locations prior to any construction activity.
3. For electrical service, the Contractor shall coordinate with Steve Doniere of Tucson Electric Power at (520) 991-4168. All applications fees and connections fees will be paid by the Contractor to Tucson Electric Power after review by the ADOT Engineer. The Contractor will then submit the paid invoices to the Resident Engineer for reimbursement through Item number 9240010, Force Account Work (Electrical Service, TEP Install). See Special Provisions.
4. All conduits shall have a No. 8 AWG green bond wire installed per Section 732-2.01 of the Standard Specifications.
5. All electrical pull boxes at the signal shall be Type #7 with the exception of the signal cabinet pull box which shall be a Type #7 with extension, gray color only.
6. All pull boxes and conduits shall be placed within ADOT right-of-way.
7. All pull boxes shall be left in a clean condition, free of dirt and debris upon completion of the work.
8. Top of pole foundation shall be the same elevation as the top of the finished sidewalk ramp, or the adjacent finished roadway surface, in sloped areas. Construct compacted fill around foundations for full structural support at poles.
9. Prior to ADOT's acceptance of conduit and prior to pulling conductors, cables, wires, and/or fiber optic cables, all conduit(s) (new and existing) to be incorporated into the new system as provided for on the Project Plans shall be cleaned and blown out with compressed air in the presence of ADOT's Inspector. A properly sized conduit piston or mandrel shall be pulled through the entire conduit system in the presence of ADOT's Inspector prior to installation of conductors, cables, wires, and/or fiber optic cables to ensure that no obstructions or debris exist in the conduit. No water or moisture shall remain in the conduit(s) prior to installation of conductors, cables, wires, and/or fiber optic cables.
10. It is the sole responsibility of the Contractor to coordinate with responsible agency the procurement, installation, and testing of the emergency vehicle pre-emption system to include all incidentals for a functional system. This includes the re-installation of existing EVP systems.
11. Prior to manufacture, shop drawings of all signal poles, signal arms, and luminaire arms shall be provided to the Engineer for examination and confirmation that the said equipment meets requirements of height, length, and placement of tenons for mounting traffic signals on arms as indicated in the plans, and requirements of metal gauge and strength and bolt size and strength as indicated in ADOT Standard Drawings.
12. All locations of pole foundations, pull boxes, controller cabinet foundations, and UPS/electric service pedestal foundations shall be verified by the Engineer, prior to final placement, installation, and/or construction.
13. Top of pole foundation cap and bottom of pole baseplate shall be field determined by Contractor survey to be flush with the finished sidewalk, ramp, or adjacent finished roadway surface and shall be installed in a manner to meet all ADA requirements. In sloped areas, construct compacted fill around foundations for full structural support at poles.
14. Location and installation of all poles shall provide 10 feet or greater clearance between all poles/arms/fixtures/features and any electrical power lines. The minimum clearance may be greater for power lines with higher voltage. The Contractor shall contact Tucson Electric Power for information on line voltage and minimum clearance distance.
15. All back plates for signal faces shall be louvered.
16. Use ADOT Standard Drawing S-9 to mount signs to the signal poles.
17. See striping plans to verify actual lane dimensions and stop bar locations.
18. The Contractor shall have at least one IMSA Level I and one IMSA Level II certified traffic signal technician on site during all phases of any traffic signal work. It is the responsibility of the Contractor to provide verification of certification. If a job is inspected and no certified technicians are present on the jobsite, the traffic signal work will be suspended.
19. All horizontal mount luminaires shall be marked with their lamp wattage. These markings shall be visible from the ground.
20. All lighting shall be installed with the mast arm perpendicular to the roadway on which they are located.
21. The newly installed traffic signal cabinet shall be wired in the field by the Contractor in the presence of an ADOT Inspector. The cabinet shall be flashed out for functionality and fully operational prior to signal activation.
22. The Contractor shall perform a ground resistance test for each installed ground rod and each pole foundation, grounding coil in accordance with subsection 732-3.03. All shall be documented and given to the ADOT Engineer.
23. All new pole foundations shall be inspected by ADOT traffic signal inspector prior to placement of concrete. Placement of all steel poles shall provide 10 feet minimum clearance from steel pole/arms/fixtures and all signal features to any electrical high voltage power lines.

24. The IMSA wiring from the control cabinet and each pole terminal compartment shall be unspliced and shall not have the jacket removed inside the pole base.
25. All signal mounting locations shall be inspected and approved by ADOT Traffic Signal Supervisor or Designee prior to drilling pole. Mounting nipples may require additional lengths, if required by Supervisor, at no additional cost to ADOT.
26. The Contractor shall be responsible for insuring the height of the signal mast arm is 21 feet above pavement.
27. All temporary traffic signal equipment and conductors purchased by ADOT shall be salvaged/returned to ADOT. Contact Shane Alden at 520-838-2841 three days in advance to coordinate.
28. All lighting shall be installed with the mast arm perpendicular to the roadway on which they are located.
29. Newly installed temporary traffic signal cabinets shall be wired in the field by the Contractor in the presence of an ADOT Inspector. The cabinet shall be flashed out for functionality and fully operational prior to signal activation.
30. The face of any vehicle or pedestrian signal head that is not in service shall be covered with a Prefabricated Nylon cover designed to completely cover the visors and lenses. The covers shall be securely held in place by integral nylon straps and buckles. The cover shall have a fine mesh strip through the center to permit testing of the signals without removing the cover. Burlap, cardboard, plastic bag shall not be used to cover out of service signal heads.
31. All luminaires shall be individually fused per ADOT Standard Drawings with correct ampere low peak rated fuse.
32. All signal mounting locations shall be inspected and approved by ADOT traffic signal supervisor or designee prior to drilling pole. Mounting nipples may require additional lengths, if required by supervisor, at no additional cost to ADOT.
33. Traffic signal cabinets shall be delivered to 4004 South Park Avenue, Tucson, Arizona 85714. Attn Roger Kestler. This includes temporary signal cabinets also.
34. All Electrical, FMS, ITS and Lighting submittals pertaining to ADOT shall be given to Shane Alden for review and approval.
35. Temporary traffic signals shall be installed per ADOT T.S. 15-0, latest revision.
36. A 12 Strand SMFO cable shall be installed from the Traffic Signal Cabinet at Intersection "A" to Traffic Signal Cabinet at Intersection "B". A Rugged Ethernet switch and necessary patch cables shall be installed in each cabinet by the contractor to ensure communication connectivity between the Traffic Signal Cabinets. See FMS plans for main trunk line connections. Contractor shall be responsible for connectivity and communication.

EXISTING SIGNALS (REMOVE & SALVAGE) NOTES

1. All removed signal/roadway lighting poles, signal features, meter pedestals, controllers and cabinets, and all electrical wiring and conductors shall be salvaged to the ADOT yard at 1444 West Grant Road, Tucson, AZ. It is the Contractor's responsibility to transport all equipment and wiring/conductors to ADOT yard in the same condition as it was removed. Contact Shane Alden at 520-838-2841 to coordinate delivery. Vehicle Detection Cameras shall be returned to the City of Tucson Traffic Maintenance Yard at 4004 South Park Avenue. Contact Roger Kestler at (520) 791-3154 to coordinate delivery.
2. All existing traffic signal pull boxes and foundations (not being used) shall be removed and disposed of by the Contractor as per Sections 202-3.04 and Sections 737-3.03 of the Standard Specifications and as directed by the Engineer.
3. Remove and dispose of the existing traffic signal conduits and conductors, per Section 737-3.03 of the Standard Specifications, or as directed by the Engineer.
4. These notes and demolition plans apply only to ADOT traffic signal equipment, conduit, and conductors. For disposition of TEP, ADOT lighting, and ADOT FMS facilities, see the respective parts of the plan set.
5. The Roadway Lighting General Notes sheet contains requirements for maintaining lighting during construction.
6. All intersection LED luminaires and respective ROAM Nodes shall be salvaged to the City of Tucson. Contact Richard Rizzoli at (520) 791-3154.

APPLIES TO ADOT SIGNALS

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>			RUTHRAUFF ROAD ADOT SIGNAL GENERAL NOTES	
ROUTE	LOCATION			
I-10	RUTHRAUFF TI			
TRACS NO. H8480 OIC			010-D(213)S	OF

PIMA COUNTY SIGNAL GENERAL NOTES

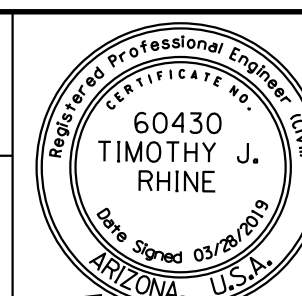

PIMA COUNTY SIGNAL GENERAL NOTES (CONT.)

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	543	849	

010 PM 252

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, the Special Provisions and the Approved Plans.
2. All pedestrian push button assemblies shall meet current ADA requirements. The signs that shall be used are identified in the latest edition of the MUTCD as adopted by PCDOT Traffic Engineering Division. The specific sign face shall be verified with the Traffic Engineer.
3. Metro Street Name Signs shall be installed such that the bottom of the sign is no less than 17 feet above the roadway pavement or no less than 16 feet above the finished grade beyond the shoulder, bike lane or multi-use lane.
4. The exact location of each new Pole Foundation, Pull Box, Controller, Cabinet Foundation, UPS Cabinet Foundation and Electric Service Pedestal Foundation shall be approved by the Traffic Engineer prior to installation.
5. The top of the Pole Foundation shall be level with the surrounding Finished Grade. If the slope or shoulder drops off from finished grade, the Contractor shall grade around Pole Foundation. The top of the Foundation shall extend no more than 4 inches above surrounding finished grade.
6. Only New Conduit, Conductors and Cable shall be installed.
7. All Conduits shall be cleaned by compressed air and a properly sized conduit piston or mandrel shall be pulled through the Conduit prior to Conductor and Cable Installation.
8. Conduit installed under existing paved driveways, which are not scheduled to be reconstructed as part of this project, shall be installed by means of boring.
9. Pull Boxes shall not be installed within concrete curb access ramps or landings. In addition, any pull boxes installed behind curbs shall be installed between the curb and the Proposed / Future Sidewalk or beyond the Proposed / Future Sidewalk. An exception to this note would be pull boxes installed in a median. Any Pull Boxes installed along an uncurbed roadway shall be installed 10 feet from edge of pavement to edge of Pull Box where Right-of-Way permits or as far from pavement as practical when there is insufficient Right-of-Way to provide the 10 foot offset.
10. A three quarter (3/4) in. x 10 ft. ground rod shall be installed in the No. 7 Pull Box (with the extension) adjacent to the controller cabinet. Two ground rod clamps shall be furnished and installed for clamping the ground wire.
11. The High Voltage Cables should be separated from the Low Voltage Cables as much as possible. Separate conduit should be used for High Voltage and Low Voltage cables between the Controller Cabinet and the No. 7 Pull Boxes located on each corner of the intersection.
12. A #14 AWG IMSA 19-1-1984 7-Conductor solid wire cable shall be installed from each Traffic Signal Terminal Strip to the concrete Pull Box adjacent to the Pole Foundation leaving three feet of slack for each cable (measured from the top of the pull box) in the pull box.
13. Three #10 AWG-XHHW conductors shall be installed from each Luminaire to the concrete Pull Box adjacent to the pole foundation, leaving three (3) feet of slack for each Conductor (measured from the top of the pull box) in the pull box. Route four (4) #10 AWG conductors to the luminaire with the photoelectric cell. An in-line fuse shall be installed for each luminaire in the associated pull box.
14. Poles with Pedestrian Signals and push button stations shall use one #14 AWG 7-Conductor IMSA Cable for both the push button station and the Pedestrian Signal. The outer cable jacket shall be removed at the hand hole height. Two Conductors shall be routed to the push button station and the remaining Conductors shall be routed to the Pedestrian Signal.
15. All vehicle roadway detection loop cables shall be #14 AWG IMSA 51-5-1985 Cable. Lead-in cables shall be #16 AWG IMSA 50-2-1984 Cable. No splices shall be allowed in the roadway detection loop cable except at the pull box adjacent to loop.
16. The detector lead-in cable shall not be spliced.
17. Detection loop saw cuts shall be flushed with water under pressure and then dried with air under pressure.
18. The Emergency Vehicle Pre-emption Sensor Cable shall be Opticom Detector Cable Model No. 138. The cable shall not be spliced.
19. The Econolite Terra Branch Cable (Part No. 1175-01x) shall be installed for the Video Camera, Unspliced, from the video camera to the Traffic Signal Controller Cabinet.
20. The Tucson Electric Power company construction department (918-8300) shall be contacted by the contractor to verify the location of the electric service connection at the intersection. The contractor shall be responsible for excavating and backfilling the trench and installing any necessary sleeves under sidewalks or driveways in which the electric service cable in conduit (CIC) is to be installed by TEP.
21. PCDOT shall contract separately with Smartwave Technologies, Inc., to provide and install Wireless Communications Devices and PTZ Cameras at all new signalized intersections. Smartwave Technologies staff shall install the Wireless Communications Devices and PTZ Cameras after the Contractor's electrical work is complete and signals at the intersection are operational. At existing signalized intersections that already have Wireless Communications and PTZ Cameras, PCDOT shall arrange to have the existing equipment removed or relocated by Smartwave Technologies, and subsequently installed on the new poles and mast arms after the Contractor's work is finished.
22. All vehicle and pedestrian indications shall be LED. All vehicle and pedestrian LED signal indications shall be the GE Lumination GTX or GTI series with tinted lenses to the color of the indication and be ETL certified or approved equal. All pedestrian signal faces shall be GTI Series Pedestrian Count Down Indications.
23. The contractor shall contact Blue Stake at 1-800-782-5348, a minimum of 2 working days prior to any excavation.
24. The contractor shall maintain and allow access to all Pima County Waste Water manholes located within the row. Access must be maintained 24 hours per day, Seven days per week. No electrical utilities may be placed within Six (6) feet of a force main.
25. Any equipment and/or utilities within the project limits that are damaged or destroyed by the contractor shall be repaired or replaced at the sole expense of the Contractor.
26. The Traffic Signal operation at existing signalized intersections shall be maintained throughout the duration of the project with existing, temporary, or new Traffic Signal equipment. Temporary signal shut downs will be allowed with off duty sheriffs providing point control to allow for signal modification. The Signal must be back in operation before crews leave the site. All signal shut downs must be coordinated with the signal shop supervisor at least 5 working days in advance of the shut down.
27. Conduits for future use shall be sealed with a properly sized tapered polyethylene duct plug at each termination point. The #8 Bare Bond wire shall be looped through the plug pull tab and two feet of slack doubled back into the conduit.
28. The face of any Vehicle or Pedestrian Signal Head that is not in service shall be covered with a Prefabricated Nylon cover designed to completely cover the Visors and Lenses. The covers shall be securely held in place by Integral Nylon Straps and Buckles. The cover shall have a fine mesh strip through the center to permit testing of the signals without removing the cover. Out of service signal heads shall not be turned, covered with burlap, cardboard or other material.
29. The location of Utilities shown on the plans is approximate. The contractor is responsible for Verifying / Potholing underground utilities in the vicinity of the Proposed Pole Foundations. The contractor is also responsible for verifying clearance between overhead lines and Traffic Signal Equipment prior to installation of poles and foundations.
30. Upon commencement of work, Traffic Control Devices shall be posted and maintained by the contractor until such a time as the work is complete. All Traffic Control Devices shall be in accordance with the most recent edition of the Manual of Uniform Traffic Control Devices as adopted by Pima County and approved by the Engineer.
31. The Contractor shall obtain approval of the Finished Top of Signal / Light Pole Foundations from the Engineer prior to pouring the foundations. The Contractor shall notify the Engineer of any discrepancies between the field conditions and the design finish elevations provided in the pole schedule.
32. Per Section 732 of the standard specifications, Concrete Encasement of Conduit is required below any proposed roadway pavement or paved shoulder, temporary roadway pavement or temporary paved shoulder, or within a median, except for Conduit running longitudinally within the median. No separate measurement or payment will be made for encasement as it is considered incidental to conduit items. Concrete encasement shall be Class B (2,500 psi) C concrete. Surround each Conduit with a minimum of 3" coverage. For conduit pair, provide 3" in-between each conduit and encase all conduit in same casement.

**APPLIES TO PIMA COUNTY SIGNAL**

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD PIMA COUNTY SIGNAL GENERAL NOTES		
ROUTE	LOCATION	RUTHRAUFF TI		DWG NO. T-12.02
TRACS NO. H8480 OIC		010-D(213)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	544	849	

010 PM 252

### TRAFFIC SIGNAL LEGEND

#### ADOT

#### PIMA COUNTY (Shown if different than ADOT)

	<i>Existing</i>	<i>New</i>
Load Center Cabinet		
UPS in Load Center Cabinet		
Control Cabinet		
Conduit, Underground	-----	-----
Conduit Run Number		
Lighting Circuit		
No. 5 Pull Box		
No. 7 Pull Box		
No. 7 Pull Box w/ Extension		
Top of Barrier Mounted Junction Box		
Signal Pole or Post and Foundation		
Cabinet or Pole Keynote		
Luminaire		
Luminaire w/ Photocell		
Traffic Signal Face, Type F		
Traffic Signal Face, Type Q		
Traffic Signal Face, Type R		
Pedestrian Signal		
Pedestrian Push Button		
Pre-Emption Sensor & Beacon		
CCTV Camera		
Quadrupole Loop Detector		
6' x 6' Pulse Loop Detector		
Video Detection Camera		

	<i>Existing</i>	<i>New</i>
Pre-Emption Sensor		
Pre-Emption Beacon		
ITS Pull Box (FO-300)		
ITS Vault (FO-301)		

#### UTILITY LEGEND

Existing and proposed utilities use the same linetypes.

Water		W
Fiber Optic Telephone		FOT
Sanitary Sewer		S
Underground Phone Line		T
Television Line		TV
Storm Drain		SD
Underground Power		P
Overhead Power		OP
Gas		G

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

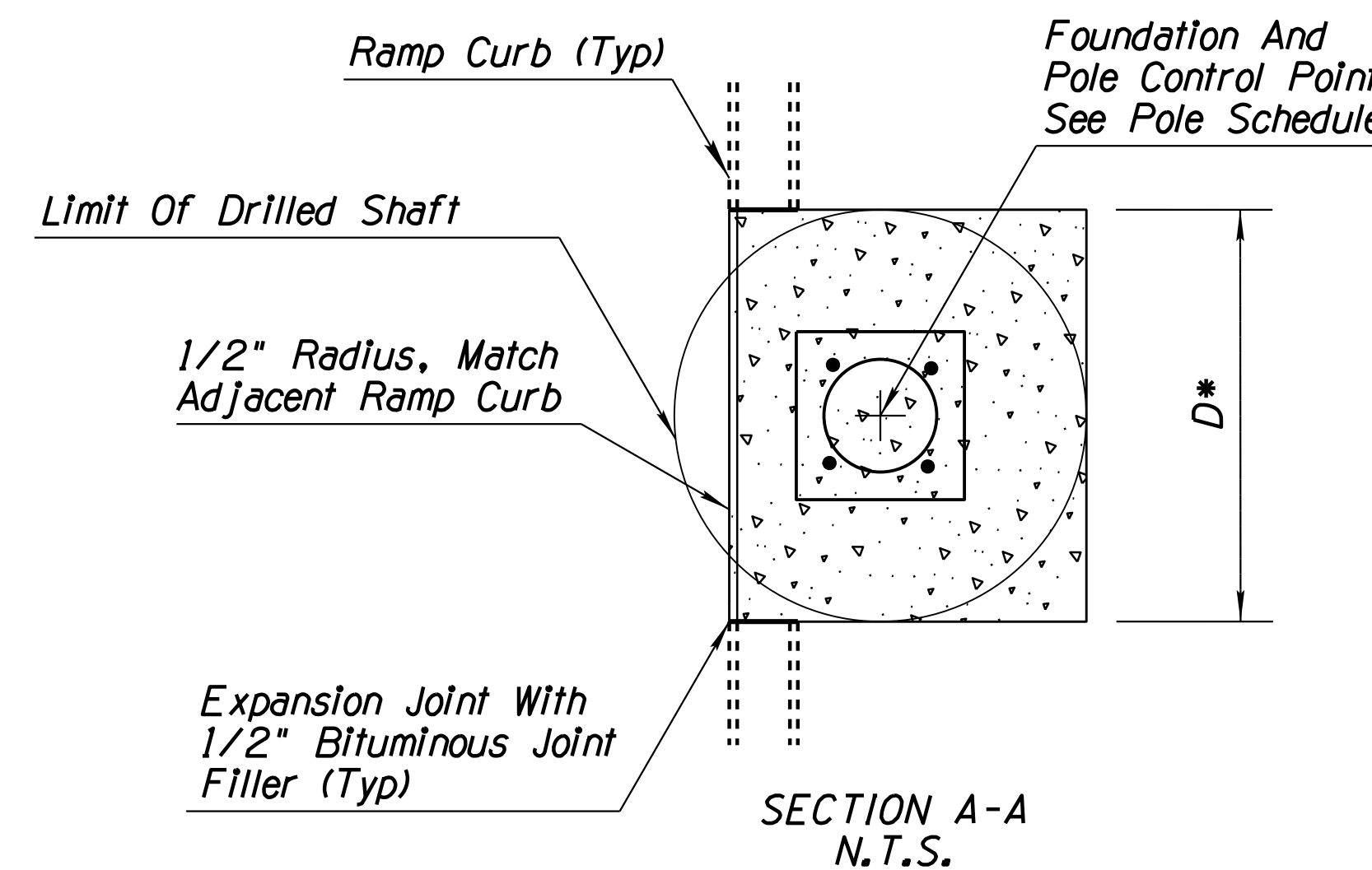
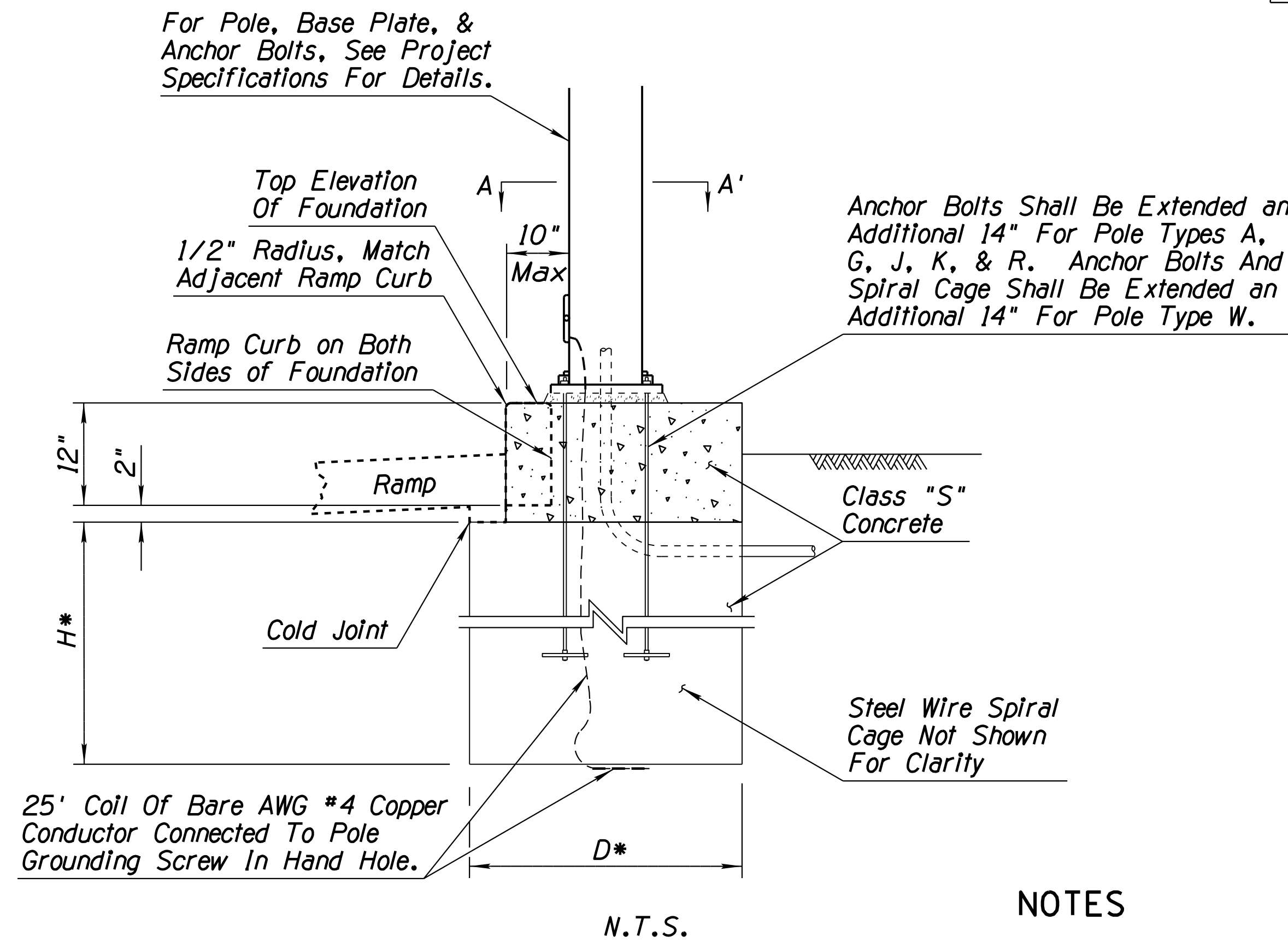
DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD SIGNAL LEGEND SHEET		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.03
TRACS NO. H8480 OIC		010-D(213)S		OF

# PIMA COUNTY SIGNAL RESPONSIBILITIES

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	545	849	

010 PM 252

- The Contractor shall supply and install all equipment and materials for the installation of the traffic signal as specified on the approved plans and in the project specifications.
- The Contractor shall deliver the controller assembly which includes the controller cabinet, the controller, the Opticom Model 764 multimode phase selector, the Opticom Model 768 auxiliary interface panel, and other auxiliary equipment specified in the approved plans and project specifications to the PCDOT maintenance yard, 1313 S. Mission Road, Bldg. #28 for testing. This shall occur a minimum of two weeks prior to the installation at the intersection. Contact the signal shop supervisor (520-724-5887) at least 2 working days prior to the delivery of the controller assembly to PCDOT. PCDOT staff shall transport the controller assembly from the PCDOT maintenance yard to the intersection after the PCDOT staff has tested the equipment. Contractor shall contact Signal Shop Supervisor to schedule signal turn-on a minimum of 2 full business days in advance.
- PCDOT staff shall install each traffic controller cabinet on its foundation and route all of the conductors into the controller cabinet. The PCDOT staff shall terminate the field conductors in the controller cabinet.
- The Contractor shall carefully disassemble and salvage all existing traffic signal equipment that is not to remain, except existing wireless communications and PTZ camera equipment. All of the equipment shall be safely stored at the construction site until it is reinstalled or safely returned to the PCDOT maintenance yard, 1313 S. Mission Road. The equipment shall be safely unloaded by the contractor. Contact the signal shop supervisor (520-724-5887) at least two working days prior to returning the equipment.
- The contractor shall provide all traffic signs, except for overhead metro street name signs. PCDOT shall fabricate all overhead metro street name signs for the designated intersection and provide them to the contractor for installation. The contractor shall notify the traffic inspector a minimum of five working days prior to Metro street name installation. The contractor shall provide all mounting hardware for traffic signs and Metro street name signs. The mounting hardware required for the installation of a Metro street name sign is a Pelco Bracket (AS-304-48-PNC), a Pelco Gusseted Tube (AB-0390-94-PNC) and four - Pelco 4" sign clamps (AB-0502-04-PNC) or approved equals. The contractor shall install all signs.
- The Contractor shall provide all materials and install all pavement markings required to complete the project.
- The new traffic signal shall not be energized until all signal related signs have been installed and verified in place and all crosswalks and stop bars have been painted. All vehicle and pedestrian detection associated with the new signal must be installed and active. Once the new signal has been energized traffic must be maintained on the appropriate side of the median. The re-alignment of new signal heads will not be permitted to accommodate lane shifts. Timing changes and temporary phase omissions will be permitted. The Pima County signal inspector must approve of the conditions prior to traffic signal turn-on. The Contractor must notify the Pima County signal inspection of their intent to energize the signal a minimum of 5 working days prior to turn-on.
- Unless specifically identified for removal as part of this project, it is the contractor's responsibility to repair/restore any landscaping, irrigation, or hardscape that may have been damaged or disturbed by the construction activities. The Contractor shall obtain prior approval from the Operations Division Public Works Supervisor (520-724-2421) before any plants are removed.
- The Contractor is responsible for ensuring all poles and mast arms are straight and true prior to installation. Pima County will not be responsible for any cost associated with repairing or replacing poles with manufacturing errors.



## NOTES

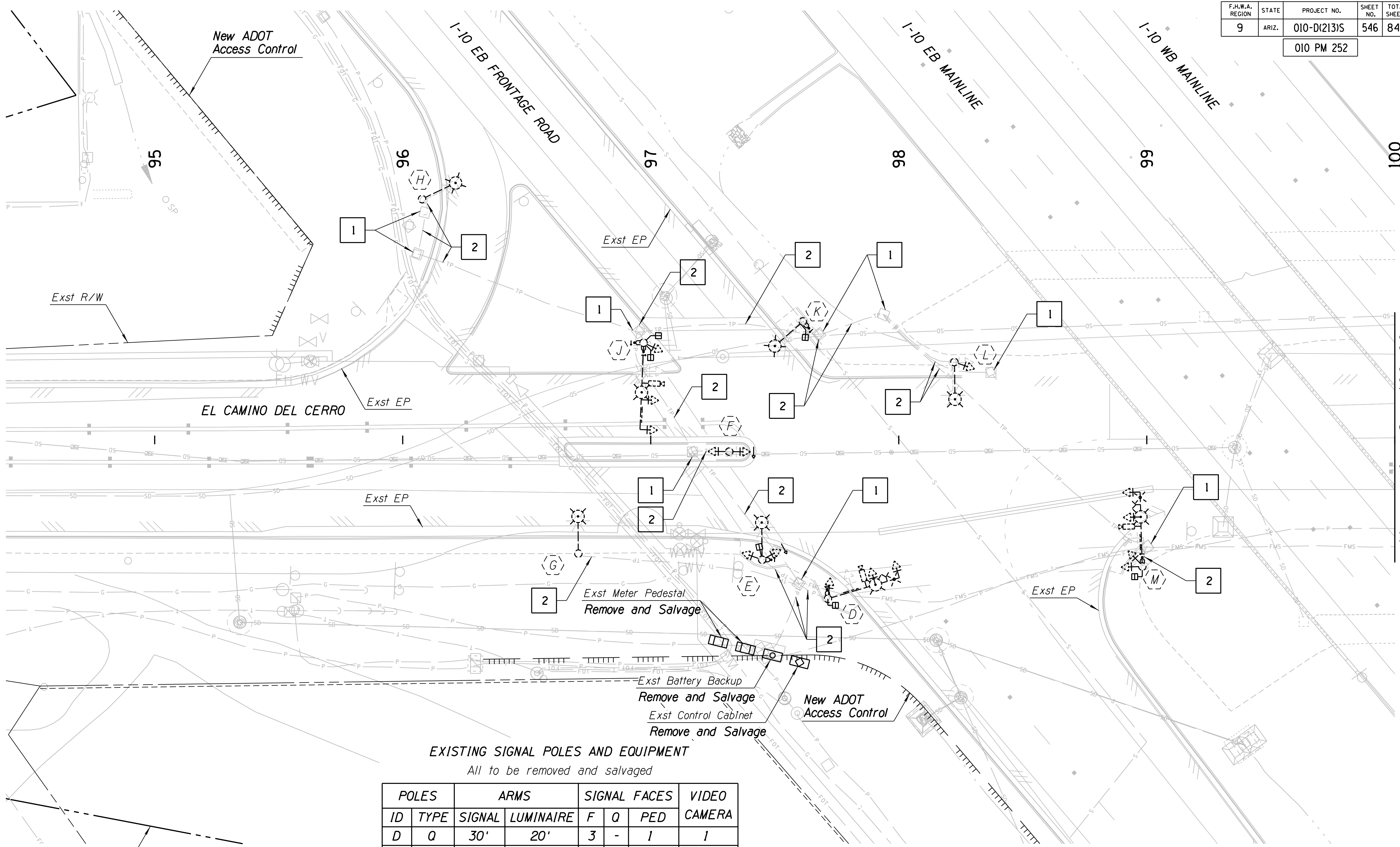
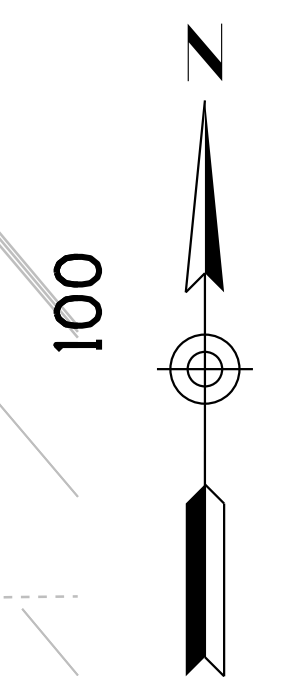
- Drilled shafts shall be formed 2" min. below bottom of curb.
  - Drilled shaft foundation cap shall be finished with a steel trowel followed by brushing with a fine brush.
  - All exposed edges and hand tooled joints shall be finished with a tool having a 1/4" radius.
  - Pole foundation caps shall be considered included in the respective signal/light pole foundation bid items.
- \* Varies see ADOT PAG Std. Dtl. T.S. 4-1, 4-4, 4-8, 4-9, 4-11, & 4-19 for foundation dimensions. Anchor Bolt and Spiral Cages will be extended in addition to the standard foundation height.

## SIGNAL/LIGHT POLE FOUNDATION CAP DETAIL

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DRAWN	T. RHINE	5-19	
CHECKED	S. DEHAYBI	5-19	
	K. CARROLL	5-19	
		RUTHRAUFF ROAD PIMA COUNTY RESPONSIBILITIES & FOUNDATION CURB DETAIL	
ROUTE	LOCATION	RUTHRAUFF TI	
1-10		DWG NO. T-12.04	
TRACS NO. H8480 OIC		010-D(213)S	
		OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	546	849	

010 PM 252



Match Line Sta 100+00  
See Sheet

**EXISTING SIGNAL POLES AND EQUIPMENT**  
All to be removed and salvaged

ID	POLES TYPE	ARMS		SIGNAL FACES			VIDEO CAMERA
		SIGNAL	LUMINAIRE	F	Q	PED	
D	Q	30'	20'	3	-	1	1
E	G	-	15'	1	1	1	-
F	A	-	-	1	1	-	-
G	G	-	15'	-	-	-	-
H	G	-	15'	-	-	-	-
J	Q	35'	20'	3	-	2	1
K	G	-	15'	-	-	1	-
L	G	-	15'	1	-	-	-
M	Q	35'	20'	4	-	1	1

- 1 Remove existing pull box
- 2 Remove and salvage existing traffic signal conduit and conductors

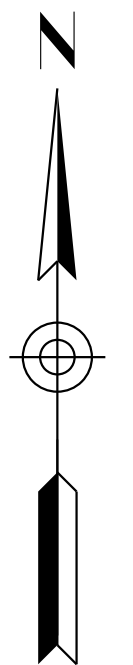
All signals poles and equipment removals are consider included in the respective lump sum signal removal bid item.

DESIGN		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN		T. RHINE	5-19		
CHECKED		S. DEHAYBI	5-19		
KIMLEY HORN		RUTHRAUFF ROAD TRAFFIC SIGNAL DEMOLITION		RUTHRAUFF TI	
ROUTE		LOCATION		DWG NO. T-12.05	
1-10		RUTHRAUFF TI		OF	
TRACS NO. H8480 OIC			010-D(213)S		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	547	849	

010 PM 252



Match Line Sta 100+00  
See Sheet

Match Line Sta 105+50  
See Sheet

**EXISTING SIGNAL POLES AND EQUIPMENT**  
All to be removed and salvaged

POLES ID	TYPE	ARMS		SIGNAL FACES			VIDEO CAMERA
		SIGNAL	LUMINAIRE	F	Q	PED	
P	Q	30'	20'	3	1	2	1
Q	G	-	15'	-	-	-	-
R	G	-	15'	1	-	1	-
S	Q	30'	20'	4	-	1	1
T	Q	35'	20'	3	-	1	1
U	G	-	15'	1	1	1	-
V	J	40'	-	3	-	-	-
W	G	-	20'	-	-	-	-
X	G	-	20'	-	-	-	-
Y	G	-	15'	-	-	-	-
Z	G	-	15'	-	-	-	-
Z1	G	-	15'	-	-	-	-

- 1 Remove existing pull box
- 2 Remove and salvage existing traffic signal conduit and conductors

All signals poles and equipment removals are consider included in the respective lump sum signal removal bid item.

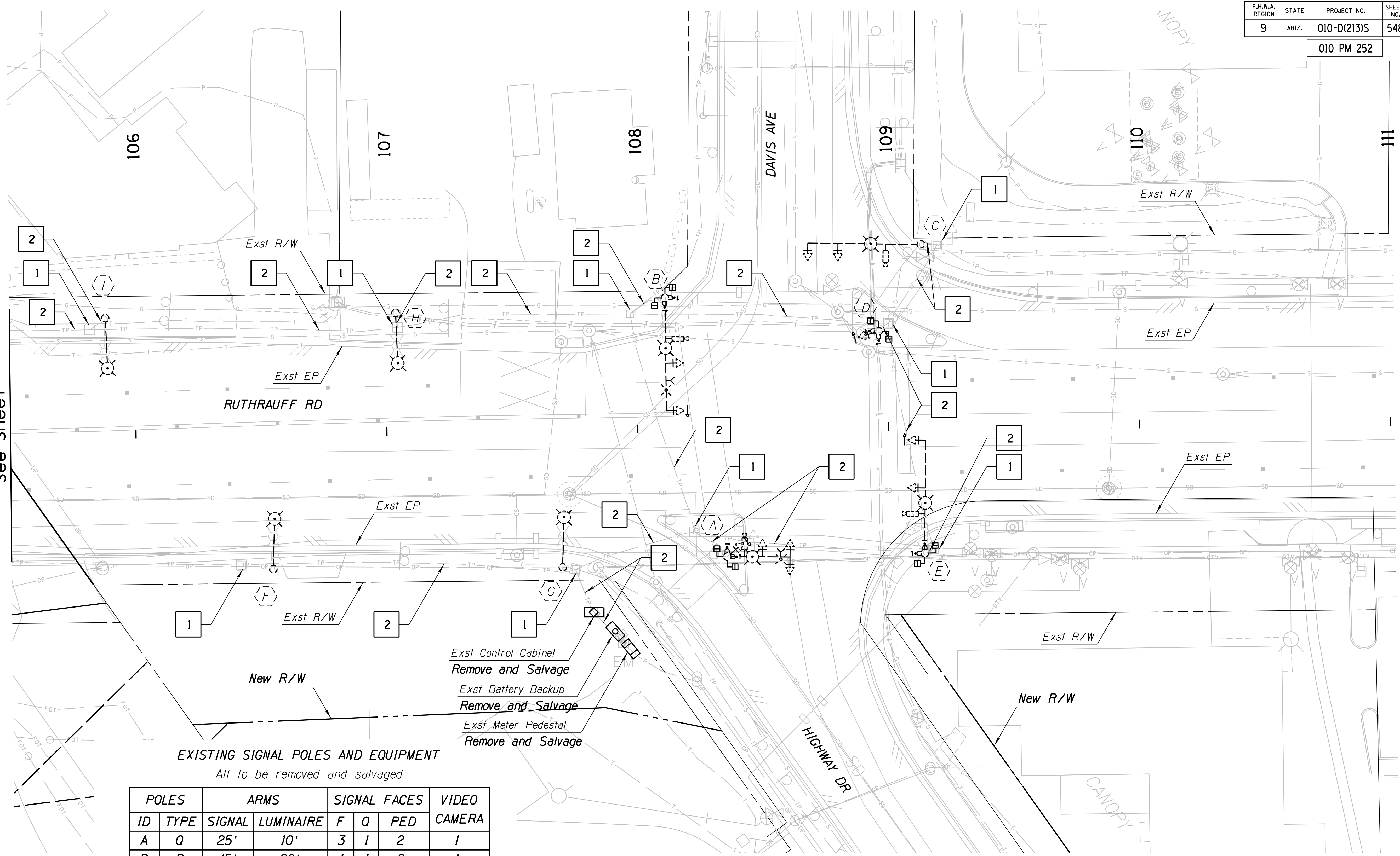
DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD TRAFFIC SIGNAL DEMOLITION	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.06	
TRACS NO. H8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	548	849	

010 PM 252



Match Line Sta 105+50  
See Sheet



**EXISTING SIGNAL POLES AND EQUIPMENT**  
All to be removed and salvaged

POLES		ARMS		SIGNAL FACES			VIDEO CAMERA
ID	TYPE	SIGNAL	LUMINAIRE	F	Q	PED	
A	Q	25'	10'	3	1	2	1
B	R	45'	20'	1	1	2	1
C	R	45'	20'	2	-	-	1
D	A	-	-	-	1	2	-
E	R	45'	20'	1	1	2	1
F	G	-	20'	-	-	-	-
G	G	-	20'	-	-	-	1
H	G	-	20'	-	-	-	-
I	G	-	20'	-	-	-	-

- 1 Remove existing pull box
- 2 Remove and salvage existing traffic signal conduit and conductors

Contractor shall coordinate with UPRR for removal of train preemption circuit.

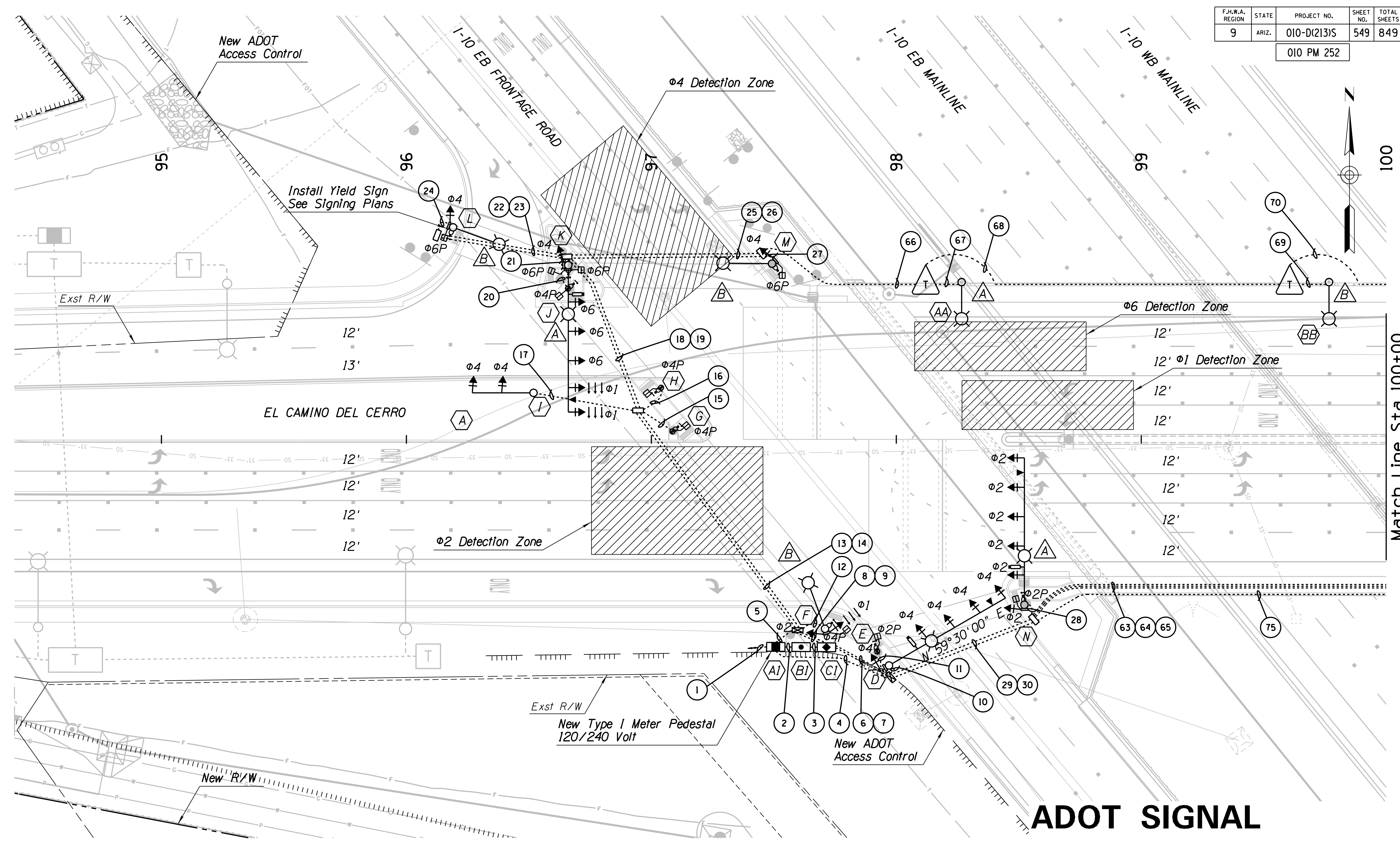
All signals poles and equipment removals are consider included in the respective lump sum signal removal bid item.

DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley»Horn</b>				<b>RUTHRAUFF ROAD TRAFFIC SIGNAL DEMOLITION</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	549	849	

010 PM 252



Match Line Sta 100+00  
See Sheet

# ADOT SIGNAL (INTERSECTION A)

Service Address:  
2961 W. El Camino Del Cerro

### DETECTION ZONES LEGEND



### CONSTRUCTION NOTES

1. Mount respective metro signs per detail on sheet T-14.16. The flag pole mount assembly and installation should be considered included in the sign panel cost. See Signing plans for locations.

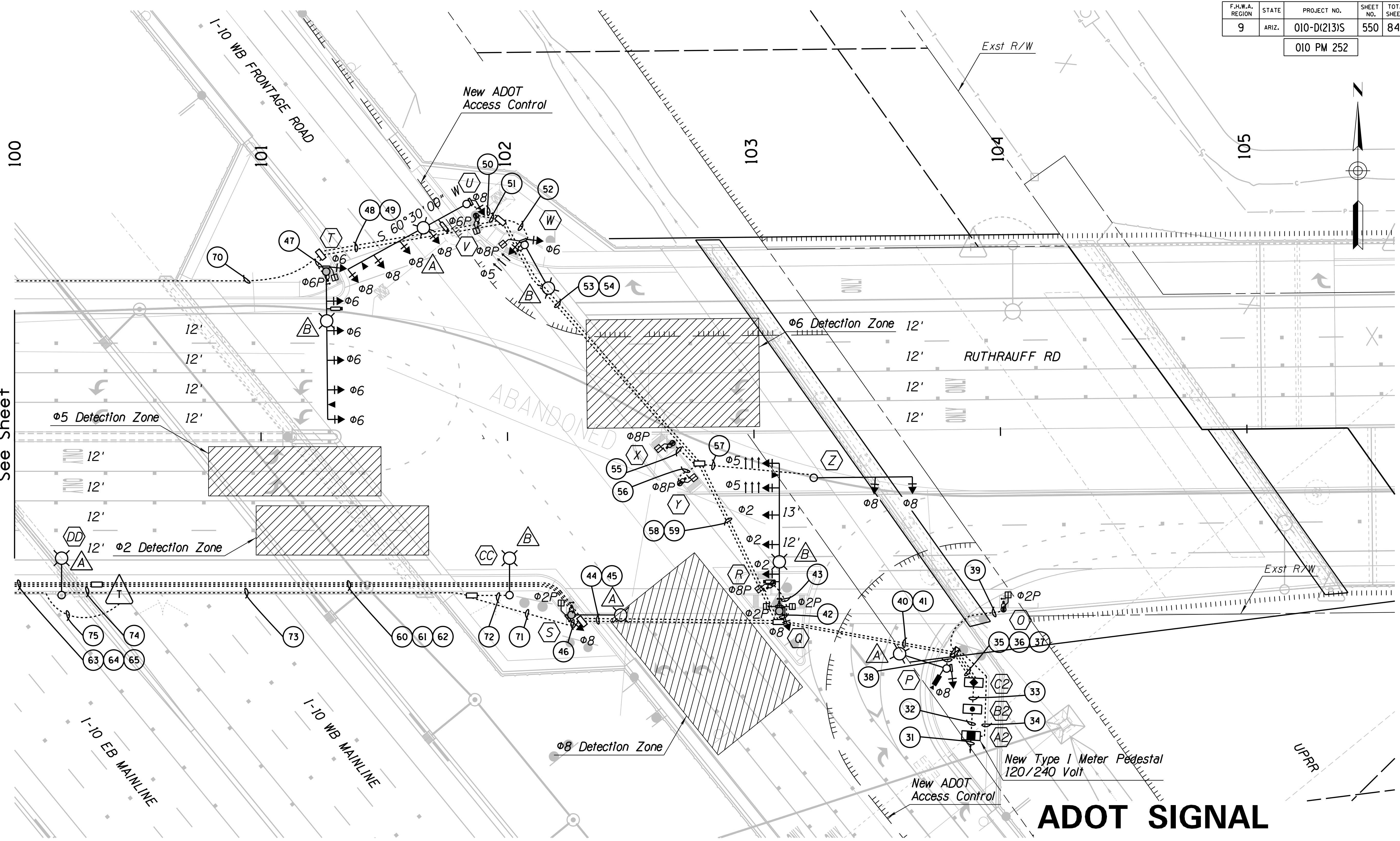
<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>DESIGN T. RHINE</td> <td>5-19</td> </tr> <tr> <td>DRAWN S. DEHAYBI</td> <td>5-19</td> </tr> <tr> <td>CHECKED K. CARROLL</td> <td>5-19</td> </tr> </table>		NAME	DATE	DESIGN T. RHINE	5-19	DRAWN S. DEHAYBI	5-19	CHECKED K. CARROLL	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
NAME	DATE											
DESIGN T. RHINE	5-19											
DRAWN S. DEHAYBI	5-19											
CHECKED K. CARROLL	5-19											
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		RUTHRAUFF ROAD & I-10 EB FRONTAGE ROAD TRAFFIC SIGNAL PLAN										
ROUTE 1-10	LOCATION RUTHRAUFF TI	TRACS NO. H8480 OIC		DWG NO. T-12.08 OF								

SURVEY NO. FINISHED PLANS DATE REVISIONS LOCATION DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	550	849	

010 PM 252

Match Line Sta 100+00  
See Sheet



**DETECTION ZONES LEGEND**

DETECTION ZONE (CENTERED IN LANE)

**CONSTRUCTION NOTES**

1. Mount respective metro signs per detail on sheet T-14.16. The flag pole mount assembly and installation should be considered included in the sign panel cost. See Signing plans for locations.

Service Address:  
2881 W. Ruthrauff Rd

**ADOT SIGNAL  
(INTERSECTION B)**

DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		RUTHRAUFF ROAD & I-10 WB FRONTAGE ROAD TRAFFIC SIGNAL PLAN	
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC			010-D(213)S	DWG NO. T-12.09

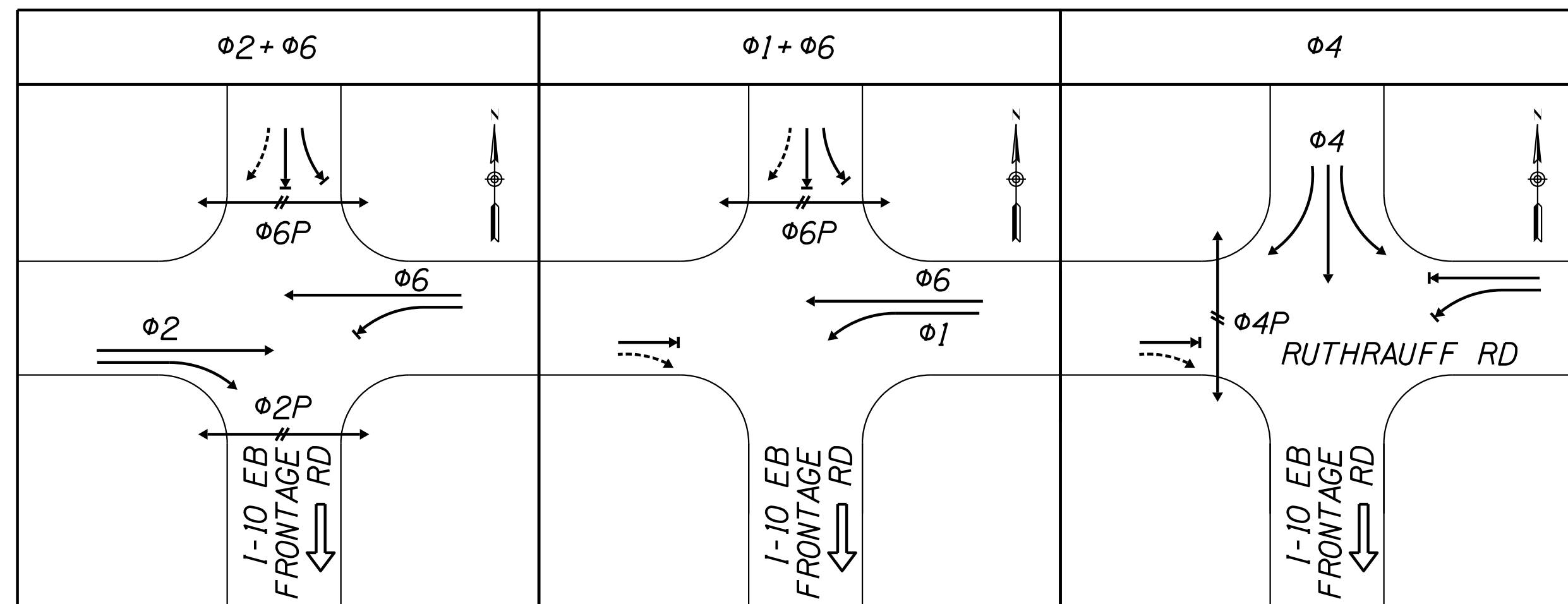
Timothy J. Rhine  
Professional Engineer  
No. 60430  
State of Arizona  
DWG NO. T-12.09

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	551	849	

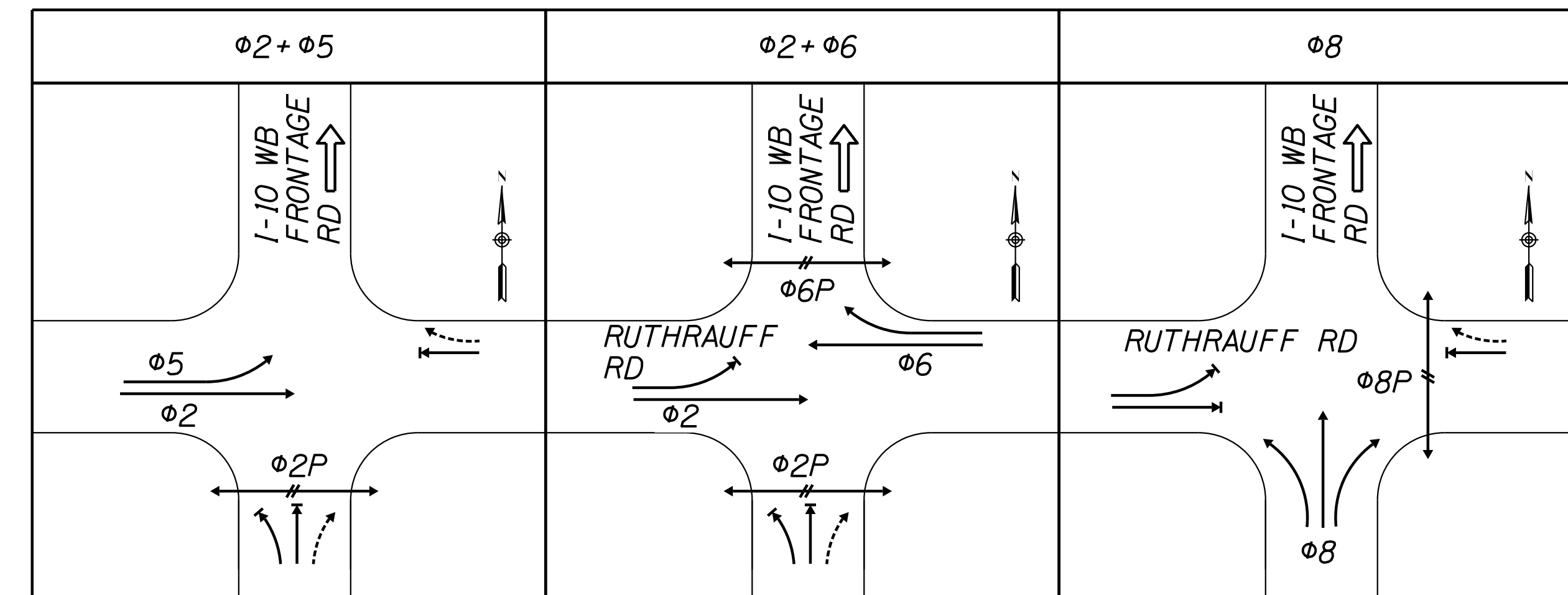
010 PM 252

PROPOSED INITIAL TRAFFIC SIGNAL PHASING

INTERSECTION A



INTERSECTION B



CABINET SCHEDULE

TRAFFIC SIGNAL CONTROLLER				REMARKS	LOCATION
CABINET	TYPE	CONTROLLER	AUX. CONTROL		
 MAINT PAD →	Type I T.S. 3-5 T.S. 2-6	Meter pedestal w/ foundation	240V lighting contactor and PEC	Service address: 2961 W. El Camino Del Cerro	Sta 97+51 ± 85' Rt ±
 MAINT PAD →	T.S. 2-7	Uninterruptible Power Supply cabinet w/ foundation	-	Foundation materials and installation shall be considered included in bid item #7340306	Sta 97+61 ± 85' Rt ±
 MAINT PAD →	Type V T.S. 3-9 T.S. 2-4	NEMA TS-2, Type I Econolite Cobalt Controller	-	-	Sta 97+72 ± 85' Rt ±
 MAINT PAD →	Type I T.S. 3-5 T.S. 2-6	Meter pedestal w/ foundation	240V lighting contactor and PEC	Service address: 2881 W. Ruthrauff Rd	Sta 103+87 ± 123' Rt ±
 MAINT PAD →	T.S. 2-7	Uninterruptible Power Supply cabinet w/ foundation	-	Foundation materials and installation shall be considered included in bid item #7340306	Sta 103+88 ± 113' Rt ±
 MAINT PAD →	Type V T.S. 3-9 T.S. 2-4	NEMA TS-2, Type I Econolite Cobalt Controller	-	-	Sta 103+88 ± 102' Rt ±

CABINET SCHEDULE NOTES

- The control cabinet shall be wired and labeled with the same phase number designations for initial and future phases as shown in the phase movement diagram, or as noted on the plans. Any control cabinet not wired accordingly will be rejected by the Engineer.
- The Contractor shall contact Roger Kestler of City of Tucson at (520) 791-3154 to schedule the wiring of the signal cabinet.
- The Contractor shall contact Roger Kestler of City of Tucson at (520) 791-3154 to schedule the signal turn-on. The ADOT electrical inspector shall schedule the signal turn-on with ADOT Traffic Operations and City of Tucson a minimum of 10 days in advance.
- The control cabinet shall be delivered to City of Tucson, Attn: Roger Kestler, (520) 791-3154, at 4004 South Park Avenue, Tucson, Arizona for testing per Section 734-2.01 (E) & (F) of the Standard Specifications.
- All Stationing is taken from Ruthrauff Road Cst CL.
- The control cabinets shall be wired in the field by the contractor in the presence of an ADOT electrical inspector and shall be flashed out and fully functional prior to activation.

ADOT SIGNAL (INTERSECTIONS A & B)

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	S. DEHAYBI	5-19			
CHECKED	K. CARROLL	5-19			
			RUTHRAUFF ROAD & I-10 PHASING DIAGRAM & CABINET SCHEDULE		
ROUTE	LOCATION		RUTHRAUFF TI		
1-10					
TRACS NO. H8480 OIC			010-D(213)S		
			OF		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	552	849	

010 PM 252

### POLE SCHEDULE

NO.	POLE	TYPE	MAST ARM		SIGNALS		P.B. SIGN	REMARKS	LOCATION
			SIG.	LUM.	MTG.	FACE			
D		R T.S. 4-11	55'	20'	4-11 1-V	4-F 1-F	-	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 10	Sta 97+97.02 92.35' Rt
F		G T.S. 4-4	-	20'	1-VII 1-V	1-R 1-F 1-PED	R10-4(R) T.S. 11-1	LUMINAIRE: NOTE 6	Sta 97+70.88 77.36' Rt
G		A 10' T.S. 4-1	-	-	1-IV	1-PED	R10-4(L) T.S. 11-1	INSTALL SIGNS TO POLE PER SIGNING PLANS	Sta 97+08.60 3.21' Lt
E, H, J		A 8' T.S. 4-1	-	-	1-IV	1-PED	E)R10-4(L) H)R10-4(L) J)R10-4(L) T.S. 11-1	-	E) Sta 97+92.20 86.64' Rt H) Sta 97+04.00 21.13' Lt J) Sta 96+65.97 61.59' Lt
I		J T.S. 4-8	25'	-	2-II	2-F	-	-	Sta 96+51.91 19.00' Lt
K		W T.S. 4-19	60'	20'	5-II 1-V 1-VII	2-R 3-F 1-F 2-PED	R10-4(B) T.S. 11-1	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 10	Sta 96+66.10 71.14' Lt
L		G T.S. 4-4	-	20'	1-V 1-V	1-F 1-PED	R10-4(R) T.S. 11-1	LUMINAIRE: NOTE 6	Sta 96+19.07 86.60' Lt
M		G T.S. 4-4	-	20'	1-V 1-V	1-F 1-PED	R10-4(L) T.S. 11-1	LUMINAIRE: NOTE 6	Sta 97+49.26 71.77' Lt
N		W T.S. 4-19	60'	20'	5-II 1-V 1-V	5-F 1-F 1-PED	R10-4(R) T.S. 11-1	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 10	Sta 98+52.29 67.56' Rt
AA		PCDOT TYPE 2A	-	-	-	-	-	LUMINAIRE: NOTE 6 BLISTER MOUNTED ON BRIDGE	Sta. 98+26.68 64.25' Lt
BB		PCDOT TYPE 2A	-	-	-	-	-	LUMINAIRE: NOTE 6 BLISTER MOUNTED ON BRIDGE	Sta. 99+76.65 64.25' Lt.

### POLE SCHEDULE NOTES

- The Contractor shall field verify all pole locations with the Engineer prior to any construction activity.
- The Contractor shall contact Shane Alden of ADOT at (520) 838-2841 before drilling poles for push button assemblies and traffic signal mounting assemblies, for exact location.
- All exposed conduit and fittings installed above ground shall be rigid metal per the Standard Specifications.
- Signs on pedestrian pushbuttons shall be type R10-4, as shown in Section 2B.51 of the 2009 MUTCD and in the ADOT Manual of Approved Signs. Arrows on signs shall point left (L), right (R), or both ways (B). For installation of pushbutton posts in barriers, see bridge details.
- It is the contractor's responsibility to coordinate the installation and alignment of the vehicle detection system with the vendor prior to traffic signal activation. The AutoScope Vision detection system shall be installed per manufacturer requirements, see bid item #7350208.
- Luminaires shall have LED light sources as described for Item #7360110 in the Special Provisions. Luminaires mounted at the locations shown in the plans shall procedure illumination that satisfies the recommendations of IESNA RP-8-14. Based on simulations, one luminaire suitable for installation on the ADOT signal poles is the American Electric Lighting Autobahn ATB2 60LED 1000, operating at 120V, with Correlated Color Temperature of 3000K, distribution R3, and 120V ROAM Node.
- Metro street name signs identifying Ruthrauff Road are shown on the sign format sheet and shall be flag-mounted on the pole and above the signal arm, using hardware approved by ADOT.
- The signal arms of all signal poles shall be oriented as shown in the plans, in order not to obscure signal heads on nearby poles. Where the signal arms are not perpendicular to the approach lanes (poles D and I), the signal heads on the arms shall be rotated to align with the approach lanes, at angles indicated in the pole schedule.
- All striping shall be installed prior to the day of turn-on.
- Pre-emption equipment installed shall be TOMAR 4090 Series.


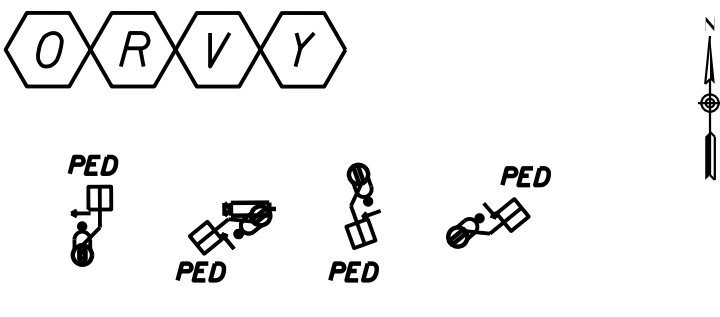
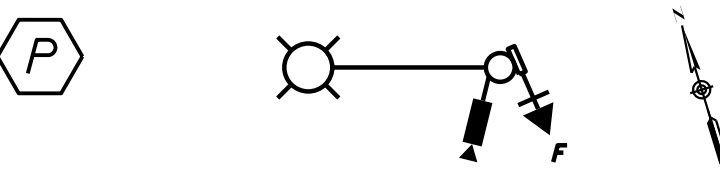
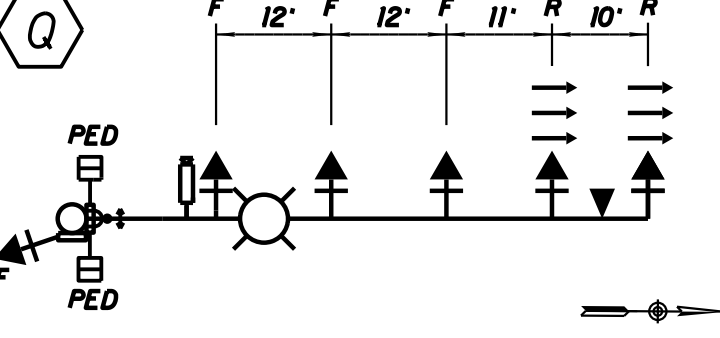
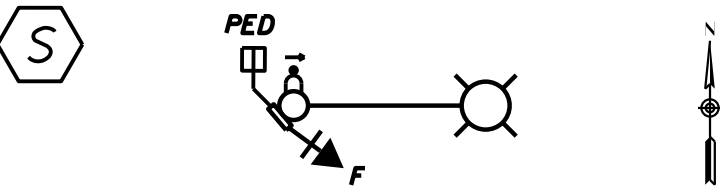
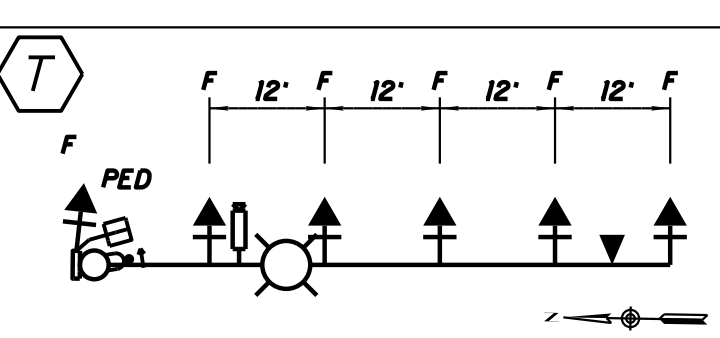
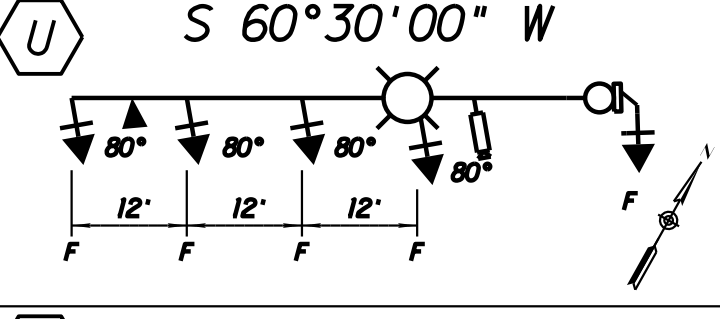
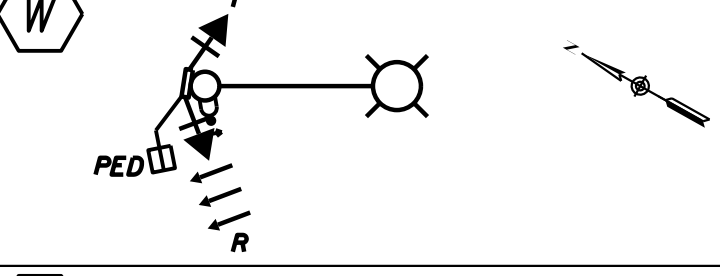
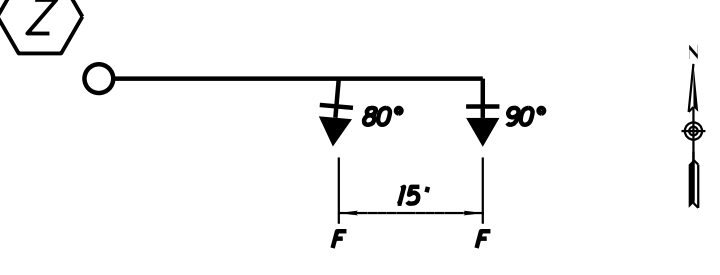
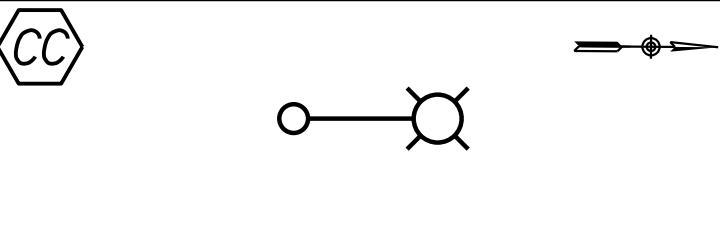
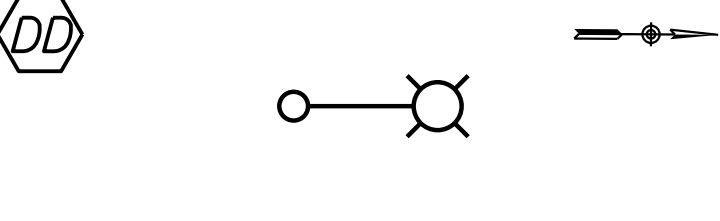
# ADOT SIGNAL INTERSECTION A

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD TRAFFIC SIGNAL POLE SCHEDULE		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.11
TRACS NO.	H8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	553	849	

010 PM 252



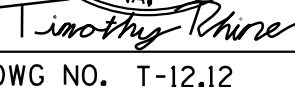
### POLE SCHEDULE

NO.	POLE	MAST ARM		SIGNALS		P.B. SIGN	REMARKS	LOCATION
		TYPE	SIG.	LUM.	MTG.			
X		A 10' T.S. 4-1	-	-	1-IV	1-PED	R10-4(L) T.S. 11-1	INSTALL SIGNS TO POLE PER SIGNING PLANS Sta 102+66.95 3.33' Rt
O, R, V, Y		A 8' T.S. 4-1	-	-	1-IV	1-PED	R10-4(R) R10-4(L) R10-4(L) R10-4(L) T.S. 11-1	IN RAMP FLARE: NOTE 11 Sta 104+00.51 72.23' Rt Sta 103+07.10 60.71' Rt Sta 101+87.20 89.73' Lt Sta 102+69.66 19.67' Rt
P		G T.S. 4-4	-	20'	1-V	1-F	-	LUMINAIRE: NOTE 6 CCTV: NOTE 10 Sta 103+77.19 95.96' Rt
Q		W T.S. 4-19	60'	20'	5-II 1-V 1-VII	2-R 3-F 1-F 2-PED	R10-4(B) T.S. 11-1	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 12 Sta 103+09.55 71.97' Rt
S		G T.S. 4-4	-	20'	1-V 1-V	1-F 1-PED	R10-4(L) T.S. 11-1	LUMINAIRE: NOTE 6 Sta 102+25.20 72.65' Rt
T		W T.S. 4-19	60'	20'	5-II 1-V 1-V	5-F 1-F 1-PED	R10-4(R) T.S. 11-1	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 12 Sta 101+26.44 67.03' Lt
U		R T.S. 4-11	55'	20'	4-II 1-V	4-F 1-F	-	VIDEO: NOTE 5 LUMINAIRE: NOTE 6 PRE-EMP: NOTE 12 Sta 101+83.40 94.47' Lt
W		G T.S. 4-4	-	20'	1-VII 1-V	1-R 1-F 1-PED	R10-4(R) T.S. 11-1	LUMINAIRE: NOTE 6 Sta 102+07.72 77.69' Lt
Z		J T.S. 4-8	40'	-	2-II	2-F	-	Sta 103+24.06 18.00' Rt
CC		PCDOT TYPE 2A	-	-	-	-	-	LUMINAIRE: NOTE 6 FOUNDATION PER PC STD T445 Sta 102+00.16 64.38' Rt
DD		PCDOT TYPE 2A	-	-	-	-	-	LUMINAIRE: NOTE 6 BLISTER MOUNTED ON BRIDGE Sta 100+19.08 64.25' Rt

### POLE SCHEDULE NOTES

- The Contractor shall field verify all pole locations with the Engineer prior to any construction activity.
- The Contractor shall contact Shane Alden of ADOT at (520) 838-2841 before drilling poles for push button assemblies and traffic signal mounting assemblies, for exact location.
- All exposed conduit and fittings installed above ground shall be rigid metal per the Standard Specifications.
- Signs on pedestrian pushbuttons shall be type R10-4, as shown in Section 2B.51 of the 2009 MUTCD and in the ADOT Manual of Approved Signs. Arrows on signs shall point left (L), right (R), or both ways (B).
- It is the contractor's responsibility to coordinate the installation and alignment of the vehicle detection system with the vendor prior to traffic signal activation. The AutoScope Vision detection system shall be installed per manufacturer requirements, see bid item #7350208.
- Luminaires shall have LED light sources as described for Item #7360110 in the Special Provisions. Luminaires mounted at the locations shown in the plans shall procedure illumination that satisfies the recommendations of IESNA RP-8-14. Based on simulations, one luminaire suitable for installation on the ADOT signal poles is the American Electric lighting Autobahn ATB2 60LED 1000, operating at 120V, with Correlated Color Temperature of 3000K, distribution R3, and 120V ROAM Node.
- Metro street name signs identifying Ruthrauff Road are shown on the sign format sheet and shall be flag-mounted on the pole and above the signal arm, using hardware approved by ADOT.
- The signal arms of all signal poles shall be oriented as shown in the plans, in order not to obscure signal heads on nearby poles. Where the signal arms are not perpendicular to the approach lanes (poles U and Z), the signal heads on the arms shall be rotated to align with the approach lanes, at angles indicated in the pole schedule.
- All striping shall be installed prior to the day of turn-on.
- Install CCTV camera on Pole P. See FMS plans.
- Construct Pole O Foundation per Structural Drawing S-2.21.
- Pre-emption equipment installed shall be TOMAR 4090 Series.

# ADOT SIGNAL INTERSECTION B

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
		RUTHRAUFF ROAD TRAFFIC SIGNAL POLE SCHEDULE		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.12
TRACS NO.	H8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	554	849	

010 PM 252

### CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	63	64	65	66	67	68	69	70	75
CONDUIT SIZE IN INCHES	2.5	2	2	2	2	4	4	4	4	3	2	3	4	4	2	3	4	4	2	3	4	4	3	4	4	3	4	3	4	4	3	3	3	2	2	2	2	2	
AWG	CIRCUIT PHASE																																						
IMSA CABLE	NUMBER OF WIRES																																						
No. OF CABLES						2	5		1	1	1	4		1	1	1	3		1	1	1		1	1	1	1	1	1											
No. OF CONDUCTORS						20	20		20	10	20	20		10	10	20	20		10	10	20		10	20	20	20	20	20	20										
POLES SERVED						D	F		D	E	F		G	H		I	J		K	L		L	L	M	M	M	N	N											
SIGNAL #1																																							
SIGNAL #2																																							
SIGNAL #4																																							
SIGNAL #5																																							
SIGNAL #6																																							
SIGNAL #8																																							
IMSA 19-1 #14 AWG																																							
PED. SIGNAL #2																																							
PED. SIGNAL #4																																							
PED. SIGNAL #6																																							
PED. SIGNAL #8																																							
PED. P.B. #2																																							
PED. P.B. #4																																							
PED. P.B. #6																																							
PED. P.B. #8																																							
PED. P.B. COMMON																																							
SIGNAL COMMON																																							
SIGNAL SPARES																																							
LIGHTING (CIRCUIT A & B) 120V					2	2				2	2	2						2		2	2		2	2	2	2	2	2							2	1	1	1	
SIGNAL HOT		1	1																																				
SIGNAL COMMON		1	1	1	1	1		1		1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1							1	1	1	1	
EVP BEACON NB (1) BLU, (1) WHT																																							
EVP BEACON SB (1) BLU, (1) WHT							1			1																													
EVP BEACON EB (1) BLU, (1) WHT							1																																
EVP BEACON WB (1) BLU, (1) WHT								1																															
INSULATED BOND GREEN		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SERVICE 120/240 VOLTS	3																																						
CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	63	64	65	66	67	68	69	70	75
EVP SENSOR NB																																							
EVP SENSOR SB																																							
EVP SENSOR EB																																							
EVP SENSOR WB																																							
DETECTION #1																																							
DETECTION #2																																							
DETECTION #4																																							
DETECTION #6																																							
12 STRAND SMFO																																							
SIGNAL CABINET INTERCONNECT																																							
CONDUIT FILL (%)						9	20						17					13																					

⊖ A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULL BOX.  
 ◇ CONDUCTORS BY TUCSON ELECTRIC POWER (TEP). CONDUIT BY CONTRACTOR. CONDUIT PER TEP REQUIREMENTS.

### 20-CONDUCTOR IMSA COLOR CODE

IMSA CABLE 19-1, #14 AWG, 20-CONDUCTOR				
CABLE #1	CABLE #2	CONDUCTOR COLOR		SIGNAL INTERVAL
		BASIC COLOR	TRACER STRIPE	
#1	#5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
#2	#6 OR OVERLAP A	RED	---	RED
		ORANGE	---	YELLOW
		GREEN	---	GREEN
#3	#7 OR OVERLAP A	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
#4	#8 OR OVERLAP A	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
2 PED.	6 PED.	BLUE	---	WALK
		BLACK	---	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
4 PED.	8 PED.	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
ALL # 'S	ALL # 'S	WHITE	---	P.B. COMMON
		BLUE	BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS, SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

### 4 AND 7-IMSA COLOR CODE

IMSA CABLE 19-1, #14 AWG, 4-CONDUCTOR & 7-CONDUCTOR							
SIGNAL HEADS OUTBOARD & FAR LEFT		SIGNAL HEADS INBOARD & SIDEMOUNT		PEDESTRIAN HEADS		PUSH BUTTON	
7-CONDUCTOR CABLE		4-CONDUCTOR CABLE		4-CONDUCTOR CABLE		4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	PUSH BUTTON STATION
RED	RED	RED	RED	RED	DON'T WALK	RED	PUSH BUTTON
BLACK	YELLOW	BLACK	YELLOW	GREEN	WALK	WHITE	P.B. COM.
GREEN	GREEN	GREEN	GREEN	WHITE	PED. COM.	GREEN	SPARE
ORANGE	YELLOW ARROW	WHITE	VEH. COM.	BLACK	SPARE	BLACK	SPARE
BLUE	GREEN ARROW						
WHITE	VEH. COM.						
WHT/BLK TR	VEH. COM.						

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

# ADOT SIGNAL (INTERSECTION A)

DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley-Horn</b>				RUTHRAUFF ROAD TRAFFIC SIGNAL CONDUIT AND CONDUCTOR SCHEDULE	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC				010-D(213)S	
				OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	555	849	

010 PM 252

### CONDUCTOR SCHEDULE

CONDUIT RUN NUMBER	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	70	71	72	73	74	75
CONDUIT SIZE IN INCHES	2.5	2	2	2	4	4	4	3	2	4	4	3	2	4	4	3	3	4	4	3	2	3	4	4	2	2	3	4	4	3	3	3	3	3	3	2	2	2	2	2	2
AWG	CIRCUIT PHASE																																								
IMS A CABLE	No. OF CABLES																																								
No. OF CONDUCTORS	No. OF CONDUCTORS																																								
POLES SERVED	POLES SERVED																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
SIGNAL	SIGNAL																																								
IMS A	IMS A																																								
19-1	19-1																																								
#14	#14																																								
AWG	AWG																																								
PED. SIGNAL	PED. SIGNAL																																								
PED. SIGNAL	PED. SIGNAL																																								
PED. SIGNAL	PED. SIGNAL																																								
PED. SIGNAL	PED. SIGNAL																																								
PED. P.B.	PED. P.B.																																								
PED. P.B.	PED. P.B.																																								
PED. P.B.	PED. P.B.																																								
PED. P.B.	PED. P.B.																																								
PED. P.B.	PED. P.B.																																								
PED. P.B.	PED. P.B.																																								
SIGNAL	SIGNAL																																								
SPARES	SPARES																																								
LIGHTING (CIRCUIT A & B) 120V	LIGHTING (CIRCUIT A & B) 120V																																								
SIGNAL HOT	SIGNAL HOT																																								
SIGNAL COMMON	SIGNAL COMMON																																								
EVP BEACON NB (1) BLU, (1) WHT	EVP BEACON NB (1) BLU, (1) WHT																																								
EVP BEACON SB (1) BLU, (1) WHT	EVP BEACON SB (1) BLU, (1) WHT																																								
EVP BEACON EB (1) BLU, (1) WHT	EVP BEACON EB (1) BLU, (1) WHT																																								
EVP BEACON WB (1) BLU, (1) WHT	EVP BEACON WB (1) BLU, (1) WHT																																								
INSULATED BOND GREEN	INSULATED BOND GREEN																																								
SERVICE 120/240 VOLTS ◊	SERVICE 120/240 VOLTS ◊																																								
CONDUIT RUN NUMBER	CONDUIT RUN NUMBER																																								
EVP SENSOR NB	EVP SENSOR NB																																								
EVP SENSOR SB	EVP SENSOR SB																																								
EVP SENSOR EB	EVP SENSOR EB																																								
EVP SENSOR WB	EVP SENSOR WB																																								
DETECTION 02	DETECTION 02																																								
DETECTION 05	DETECTION 05																																								
DETECTION 06	DETECTION 06																																								
DETECTION 08	DETECTION 08																																								
CCTV CAMERA	CCTV CAMERA																																								
12 STRAND SMFO	12 STRAND SMFO																																								
SIGNAL CABINET INTERCONNECT	SIGNAL CABINET INTERCONNECT																																								
CONDUIT FILL (%)	CONDUIT FILL (%)																																								

⊖ A CRIMP CONNECTION SHALL BE USED FOR SPLICING IN PULL BOX.  
 ◊ CONDUCTORS BY TUCSON ELECTRIC POWER (TEP), CONDUIT BY CONTRACTOR. CONDUIT PER TEP REQUIREMENTS.

#### 20-CONDUCTOR IMSA COLOR CODE

IMSA CABLE 19-1, #14 AWG, 20-CONDUCTOR			
CABLE #1	CABLE #2	CONDUCTOR COLOR	SIGNAL INTERVAL
01	05 OR OVERLAP A	RED WHITE	RED
		BLACK WHITE	YELLOW
		GREEN WHITE	GREEN
02	06 OR OVERLAP A	RED	RED
		ORANGE	YELLOW
		GREEN	GREEN
03	07 OR OVERLAP A	BLACK RED	RED
		ORANGE RED	YELLOW
		BLUE RED	GREEN
04	08 OR OVERLAP A	RED BLACK	RED
		ORANGE BLACK	YELLOW
		GREEN BLACK	GREEN
2 PED.	6 PED.	BLUE	WALK
		BLACK	DON'T WALK
		WHITE	PUSH BUTTON
4 PED.	8 PED.	BLUE WHITE	WALK
		RED GREEN	DON'T WALK
		WHITE RED	PUSH BUTTON
ALL 0'S	ALL 0'S	WHITE	P.B. COMMON
		BLUE BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS, SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

#### 4 AND 7-IMS A COLOR CODE

IMSA CABLE 19-1, #14 AWG, 4-CONDUCTOR & 7-CONDUCTOR							
SIGNAL HEADS OUTBOARD & FAR LEFT 7-CONDUCTOR CABLE		SIGNAL HEADS INBOARD & SIDEMOUNT 4-CONDUCTOR CABLE		PEDESTRIAN HEADS 4-CONDUCTOR CABLE		PUSH BUTTON 4-CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	PUSH BUTTON STATION
RED	RED	RED	RED	RED	DON'T WALK	RED	PUSH BUTTON
BLACK	YELLOW	BLACK	YELLOW	GREEN	WALK	WHITE	P.B. COM.
GREEN	GREEN	GREEN	GREEN	WHITE	PED. COM.	GREEN	SPARE
ORANGE	YELLOW ARROW	WHITE	VEH. COM.	BLACK	SPARE	BLACK	SPARE
BLUE	GREEN ARROW						
WHITE	VEH. COM.						
WHT/BLK TR	VEH. COM.						

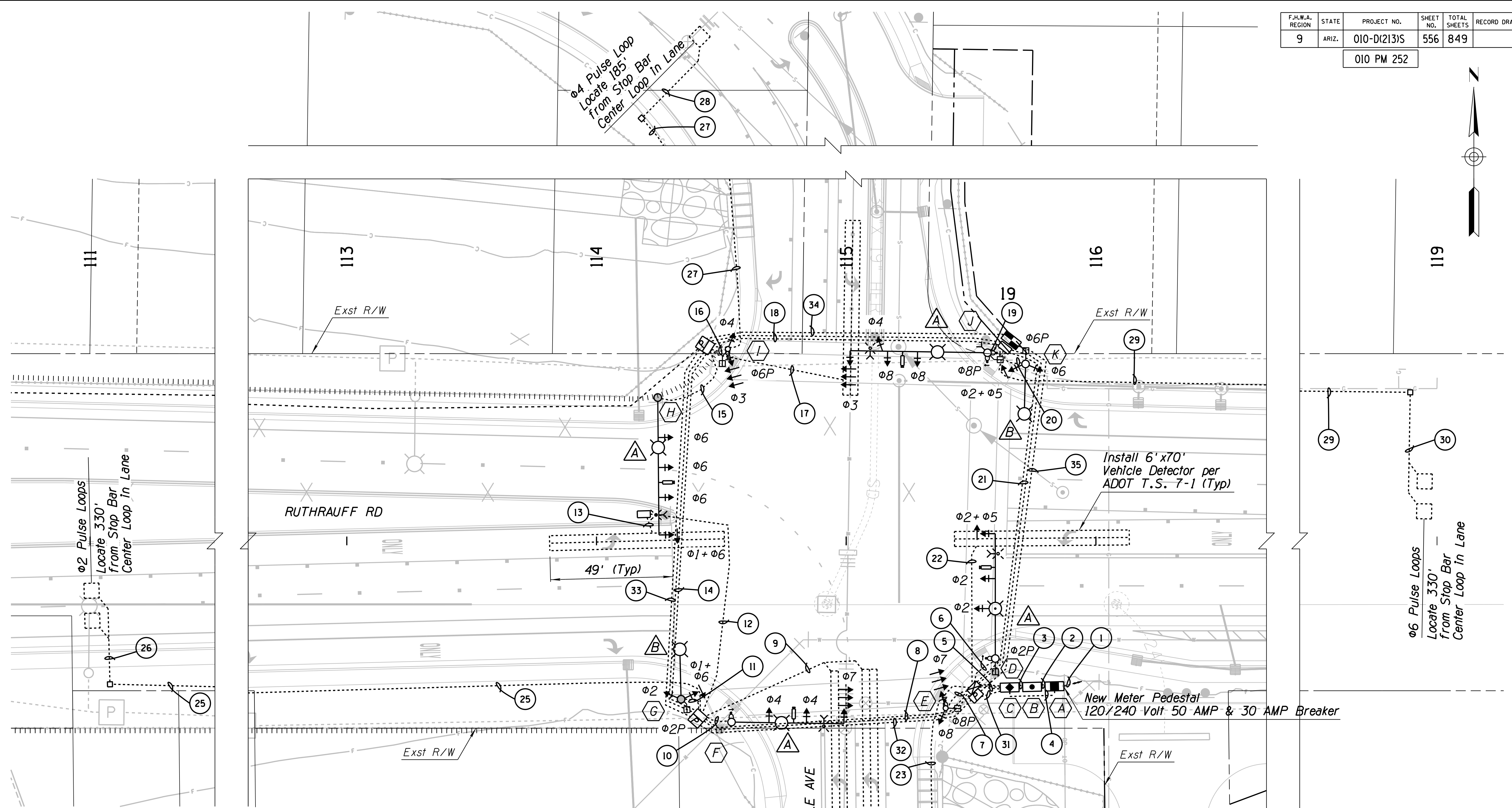
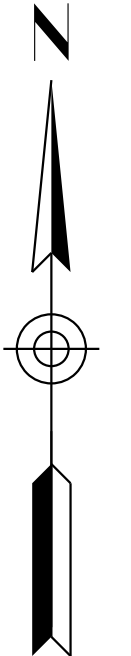
THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

## ADOT SIGNAL (INTERSECTION B)

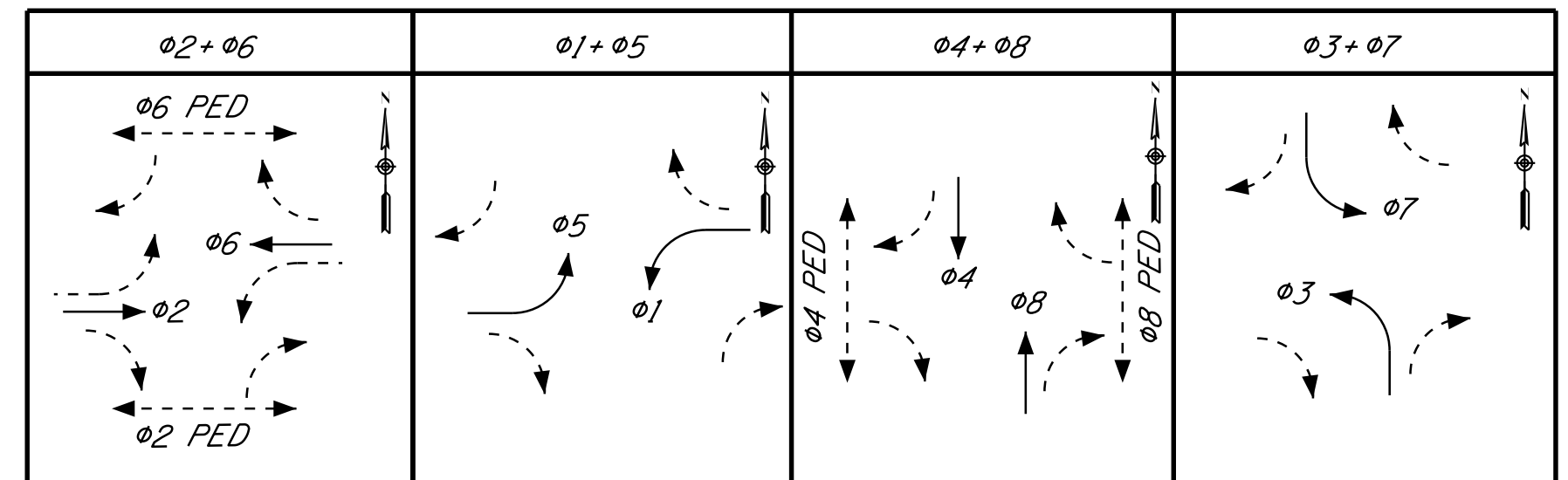
DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		
DRAWN	S. DEHAYBI	DATE	5-19			
CHECKED	K. CARROLL	DATE	5-19			
<b>Kimley»Horn</b>		RUTHRAUFF ROAD TRAFFIC SIGNAL CONDUIT AND CONDUCTOR SCHEDULE		RUTHRAUFF TI		
ROUTE	1-10	LOCATION	RUTHRAUFF TI			
TRACS NO.	H8480 OIC	PROJECT NO.	010-D(213)S			
					DWG NO.	T-12.14
					DATE	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	556	849	

010 PM 252



**PROPOSED TRAFFIC SIGNAL PHASING**



Service Address:  
2681 W Ruthrauff Rd

# PIMA COUNTY SIGNAL (INTERSECTION C)

DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  MARYVALE AVENUE & RUTHRAUFF ROAD <b>TRAFFIC SIGNAL PLAN</b>	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley-Horn</b>					
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S	DWG NO. T-12.15	



CABINET SCHEDULE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	557	849	

TRAFFIC SIGNAL CONTROLLER				REMARKS	LOCATION	STANDARDS
CABINET	TYPE	CONTROLLER	AUX. CONTROL			
	MYERS 125 AMP 120/240 V MUEG16-M200	METERED SERVICE PEDESTAL W/1 SINGLE POLE 50 AMP AND 1 30 AMP CIRCUIT BREAKER.	(1) 30 AMP SINGLE POLE BREAKER FOR SIGNAL, (1) 50 AMP SINGLE POLE MAIN BREAKER FOR LIGHTING, AND (2) 20 AMP BRANCH BREAKERS TO SERVE LIGHTING CIRCUITS.	SHARE FOUNDATION W/UPS 66"L x 36"W x 24"D	LOCATE METER/UPS FOUNDATION AT STA 115+76, 58' LT, MEASURED FROM THE NEAREST EDGE OF FOUNDATION FRONTING THE ROADWAY.	T1801
	MYERS BC1280 W/MP 2000E.	ICBM SNMP CARD, & 4-ALPHA CELL 195 BATTERIES OR APPROVED EQUAL	-	UPS TO SHARE FOUNDATION W/ SERVICE PEDESTAL	-	-
	NEMA TS2-1998 TYPE IV, TS2 SIZE 6, DETECTOR RACK CONFIGURATION 1	NEMA TS2 TYPE 1 ECONOLITE MODEL COBALT OR EQUAL	16 CHANNEL MMU, RACK MOUNTED LOOP DETECTORS. NEMA SOLID STATE NEMA LOAD SWITCHES VIDEO DETECTION AND A THREE POLE STREET LIGHTING CONTACTOR AND THREE 20 AMP CIRCUIT BREAKERS. 3 CHANNEL AMPLIFIER, EVP DISCRIMINATOR.	-	LOCATE METER/UPS FOUNDATION AT STA 115+65.47, 58' LT, MEASURED FROM THE NEAREST EDGE OF FOUNDATION FRONTING THE ROADWAY.	T203 T312

010 PM 252

POLE SCHEDULE

NO.	POLE	MAST ARM		SIGNALS		TYPE	PED PB TYPE/SIGN	REMARKS	LOCATION	STANDARDS
		SIG.	LUM.	MTG.	FACE					
	R	50'	20'	(3) ASTRO-BRAC (1) - XI	1-Q 2-F 1- PED	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	TYPE 1 2" ADA PB & PPB SIGN R10-3eLAZ	INSTALL VIDEO DETECTION ON 6' EXTENSION BRACKET, SEE NOTE 11. INSTALL PHOTOCELL ON LUMINAIRE.	D STA 115+59.70 47.10' RT	T413 T909 T417 T1101 T418 T1505 T801 T1901 T802 T1902 T803 T1903 T804 T1905
	A-15' ADOT (T.S. 4-1)	-	-	(3) - XI	1-R 1-F 1- PED	-	TYPE 1 2" ADA PB & PPB SIGN R10-3eRAZ	INSTALL 17" FRANGIBLE BASE	E STA 115+39.82 66.97' RT	T401 T802 T417 T803 T418 T804 T801 T909 T1101
	R	45'	20'	(3) ASTRO-BRAC	1-R 2-F	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	TYPE 1 2" ADA PB & PPB SIGN R10-3eLAZ	INSTALL VIDEO DETECTION ON 6' EXTENSION BRACKET, SEE NOTE 11	F STA 114+54.07 72.55' RT	T413 T803 T417 T1101 T418 T1901 T801 T1902 T802 T1903 T1905
	2B	-	20'	(1) - VII (1) - XI	1-Q 1-F 1- PED	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	-	-	G STA 114+33.87 63.41' RT	T417 T803 T418 T804 T445 T905 T801 T909 T802
	R	55'	20'	(4) ASTRO-BRAC	1-Q 3-F	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	-	INSTALL VIDEO DETECTION ON 6' EXTENSION BRACKET, SEE NOTE 11	H STA 114+24.54 57.40' LT	T413 T803 T417 T1901 T418 T1902 T801 T1903 T802 T1905
	A-15' ADOT (T.S. 4-1)	-	-	(3) - XI	1-R 1-F 1- PED	-	TYPE 1 2" ADA PB & PPB SIGN R10-3eRAZ	INSTALL 17" FRANGIBLE BASE	I STA 114+52.88 76.87' LT	T401 T802 T417 T803 T418 T804 T801 T909 T1101
	R	55'	20'	(4) ASTRO-BRAC (1) - XI	1-R 3-F 1- PED	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	(2) TYPE 1 2" ADA PB & PPB SIGN R10-3eLAZ	INSTALL VIDEO DETECTION ON 6' EXTENSION BRACKET, SEE NOTE 11	J STA 115+56.57 75.36' LT	T413 T804 T417 T909 T418 T1101 T801 T1901 T802 T1902 T803 T1903 T1905
	2B	-	20'	(1) - VII (1) - XI	1-Q 1-F 1- PED	LED TYPE 25L LUMINAIRE W/FULL CUT-OFF	-	-	K STA 115+71.82 70.86' LT	T417 T803 T418 T804 T445 T905 T801 T909 T802

POLE & CABINET SCHEDULE NOTES

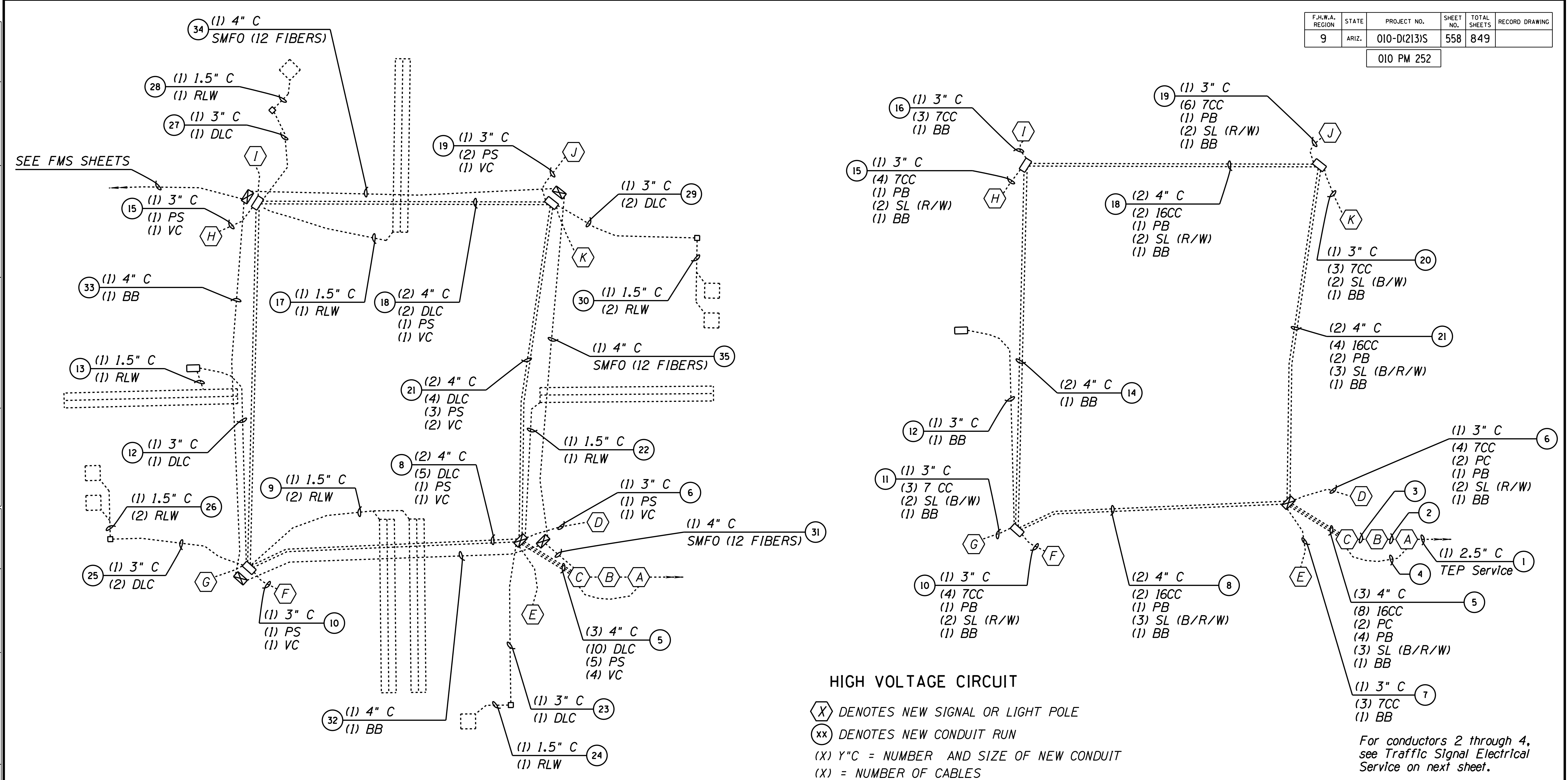
- ASTRO-BRAC MOUNTING ASSEMBLIES SHALL BE PELCO ASTRO-BRAC. F HEADS PART NUMBER AS-0116-3-84. Q HEADS PART NUMBER AS-0116-5-84.
- ALL LUMINAIRES SHALL HAVE PHOTOCELL RECEPTACLES. ALL PHOTOCELL RECEPTACLES SHALL HAVE SHORTING CAP EXCEPT FOR THE LUMINAIRE WITH PHOTOCELL.
- PEDESTRIAN PUSH BUTTON TO BE AT 42 INCHES ABOVE FINISH GRADE TO CENTER OF PUSH BUTTON.
- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON SIGN R10-3eLAZ AS SHOWN ON PAGE 93 OF THE 2009 MUTCD AND THE ADOT MANUAL OF APPROVED SIGNS.
- FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON SIGN R10-3eRAZ AS SHOWN ON PAGE 93 OF THE 2009 MUTCD AND THE ADOT MANUAL OF APPROVED SIGNS.
- CONTRACTOR SHALL MAINTAIN 6" OFFSET TO END OF MAST ARM FROM CENTER OF 3/8" TENON. REFER TO THE DETAIL SHEET.
- DETAIL T445 IS REVISED TO USE A 3" CONDUIT SWEEP.
- CONTRACTOR SHALL FIELD ADJUST HEAD ANGLES AT THE DISCRETION OF THE ENGINEER.
- PREEMPTION DETECTORS SHALL BE OPTICOM MODEL 711 EVP DETECTOR AND EVP BEACON.
- NEW CAMERAS SHALL BE ECONOLITE VISION SERIES. INSTALL NEW CAMERA ON ASTRO-BRAC 1-PIECE CAMERA BRACKET STELLAR SERIES PART NUMBER AS-0166-74-84-PNC ON SIGNAL MAST ARM, ITEM IS INCIDENTAL UNDER BID ITEM 9240099.
- NEW PUSH BUTTONS SHALL BE POLARA IN2 PUSH BUTTONS AND SHALL INCLUDE ALL CONTROL AND WIRING.

PIMA COUNTY SIGNAL (INTERSECTION C)

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
		MARYVALE AVENUE & RUTHRAUFF ROAD POLE & CABINET SCHEDULE		Timothy J. Rhine DWG NO. T-12.16
ROUTE	1-10	LOCATION	RUTHRAUFF TI	
TRACS NO.	H8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	558	849	

010 PM 252



**LOW VOLTAGE CIRCUIT**

(X) DENOTES NEW SIGNAL OR LIGHT POLE  
 (xx) DENOTES NEW CONDUIT RUN

(X) Y" C = NUMBER AND SIZE OF NEW CONDUIT  
 (X) = NUMBER OF CABLES  
 DLC = DETECTOR LEAD-IN CABLE, 16 AWG (I.M.S.A. 50-2-1984)  
 PS = PREEMPT SENSOR, OPTICOM #20 3CC-SHIELDED CABLE (3M MODEL 138)  
 VC = VIDEO DETECTION CABLE, TERRA BRANCH CABLE PART No. 1175-01X  
 RLW = ROADWAY LOOP WIRE, 14 AWG (I.M.S.A. 51-5-1985)

**HIGH VOLTAGE CIRCUIT**

(X) DENOTES NEW SIGNAL OR LIGHT POLE  
 (xx) DENOTES NEW CONDUIT RUN  
 (X) Y"C = NUMBER AND SIZE OF NEW CONDUIT  
 (X) = NUMBER OF CABLES  
 \*CC = #14 AWG IMSA CABLE  
 BB = BARE BOND 8 AWG SOLID  
 PB = PRE-EMPTION BEACON, 14 AWG THW  
 PC = PHOTOCELL, #10 AWG XHHW  
 SP = SIGNAL POWER  
 SL = STREET LIGHTING, #10 AWG XHHW (BLACK/RED/WHITE)  
 BG = BARE GROUND 8 AWG SOLID

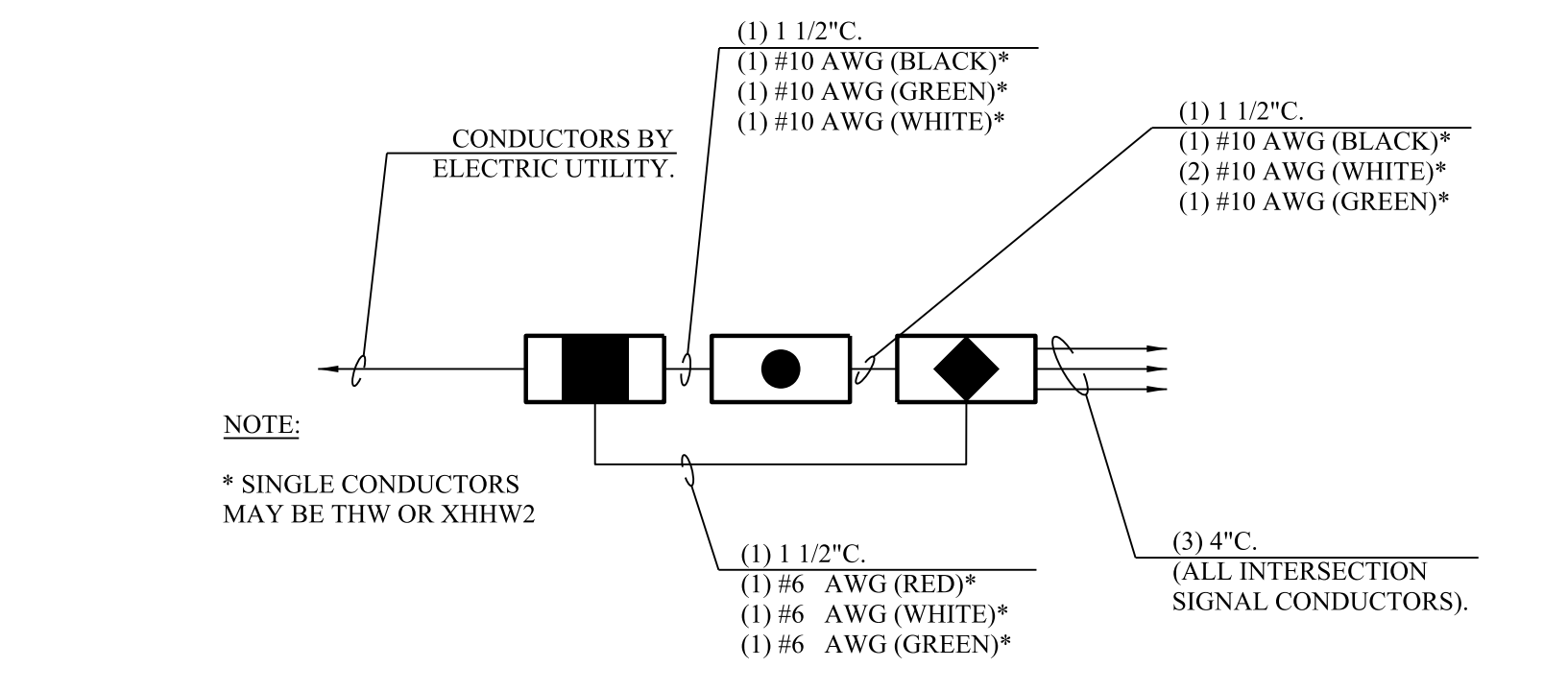
For conductors 2 through 4, see Traffic Signal Electrical Service on next sheet.

**PIMA COUNTY SIGNAL (INTERSECTION C)**

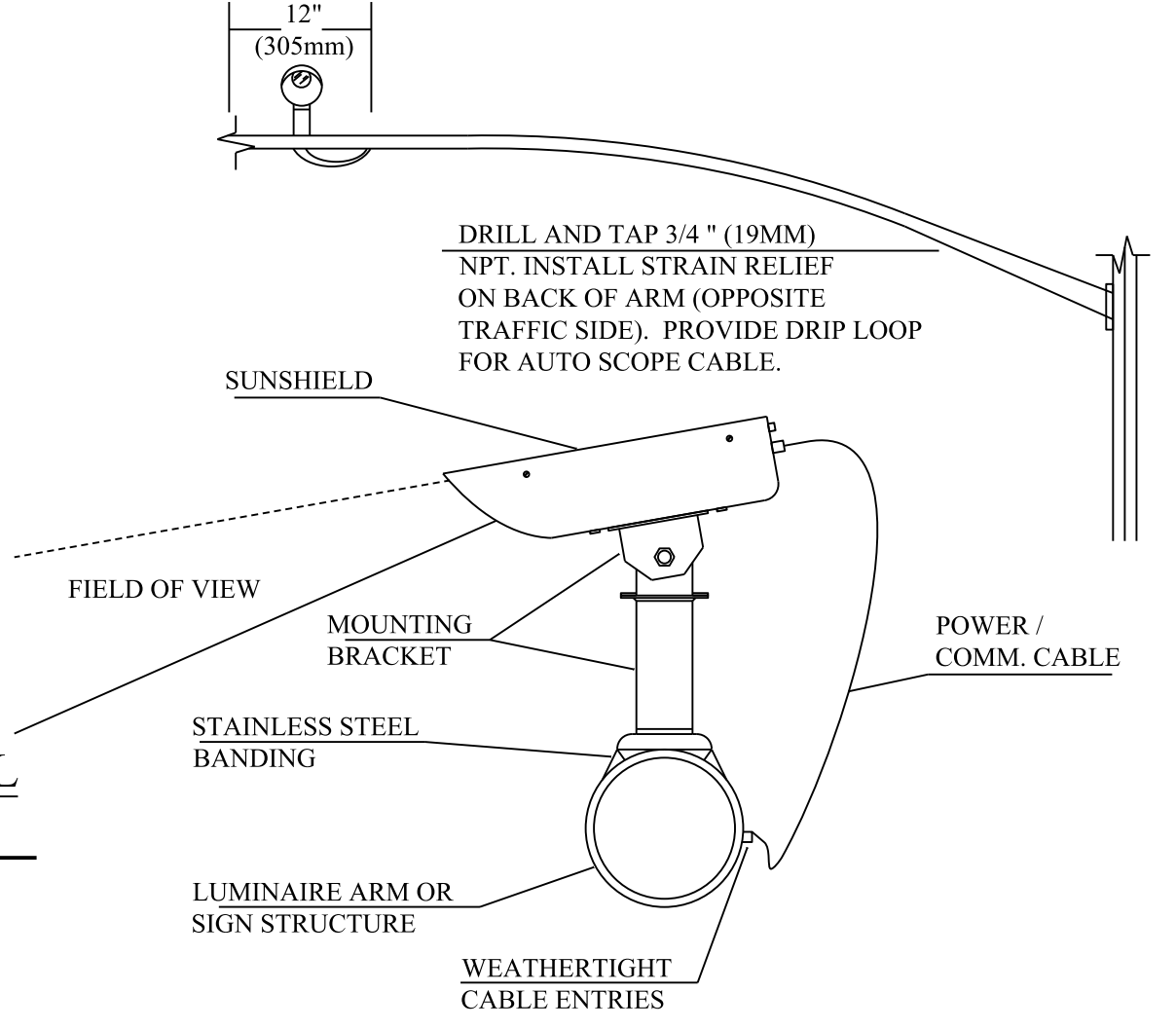
DESIGN	T. RHINE	DATE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley»Horn</b>				MARYVALE AVENUE & RUTHRAUFF ROAD CONDUIT AND CONDUCTOR SCHEDULE	
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.17	
TRACS NO. H8480 OIC			010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	559	849	

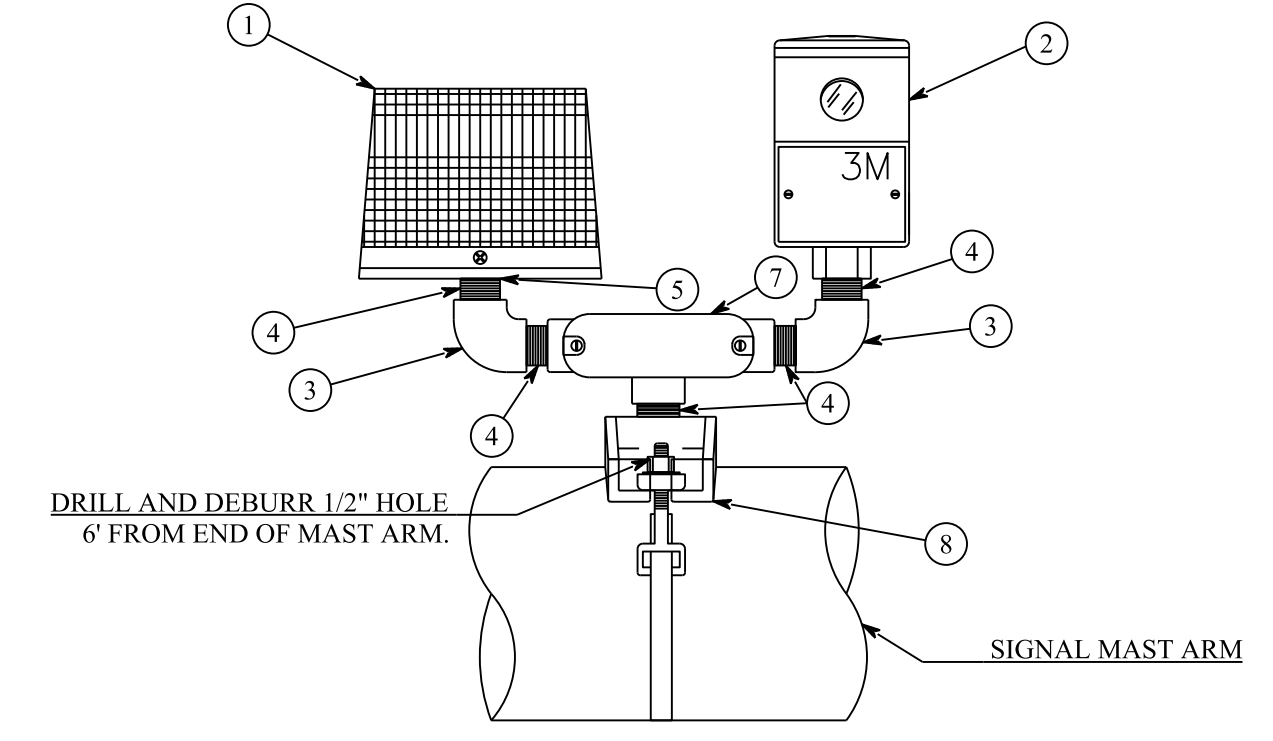
010 PM 252



**BATTERY BACK-UP POWER SUPPLY (BBS) SCHEMATIC DETAIL**  
N.T.S.



**VIDEO DETECTION SYSTEM AUTO SCOPE INSTALLATION**  
N.T.S.

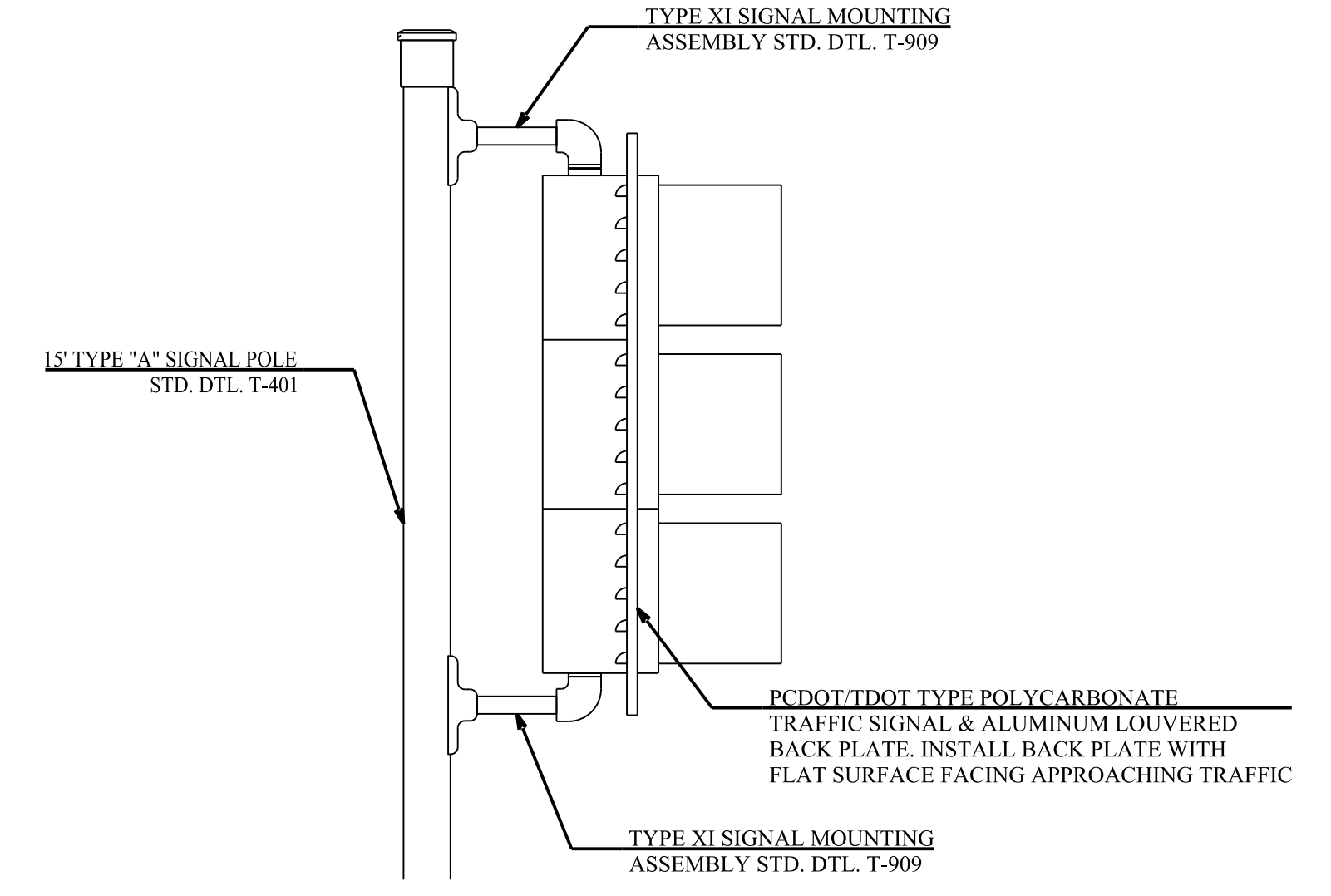


LOCATE EVP ASSEMBLY 8' 6" FROM END TENON, USE FACTORY WELDED 1" NPT NIPPLE WHEN PROVIDED.

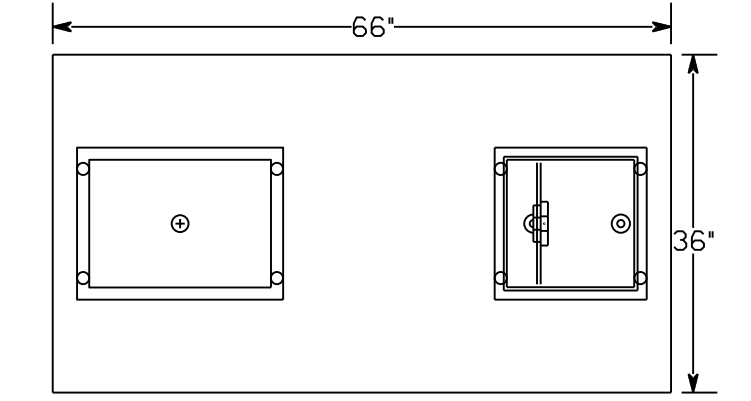
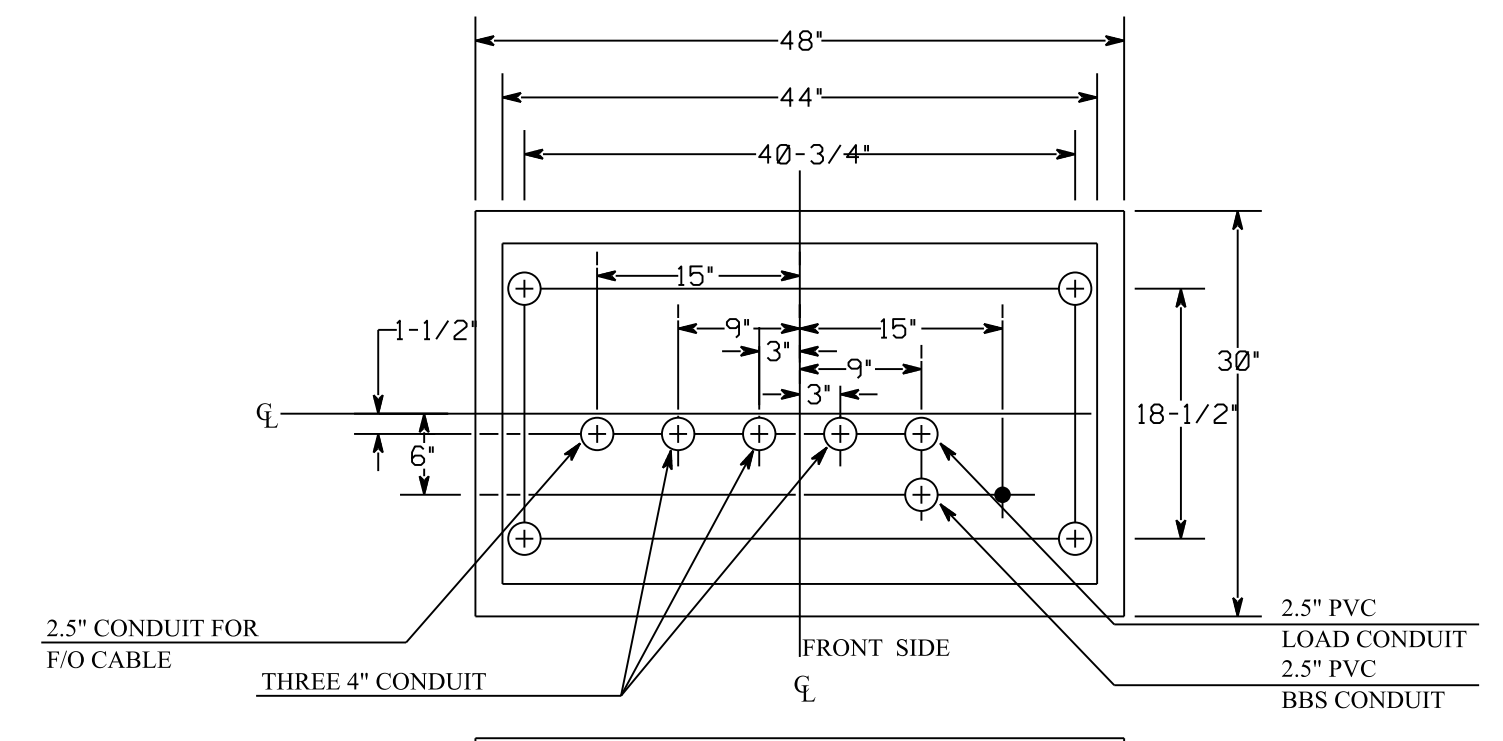
ITM.	QU.	DESCRIPTION
1	1	WHELEN STROBE LIGHT (P/N 1S3220LC OR IS3220L)*
2	1	3M OPTICOM DETECTOR (P/N 711, 721 OR 722)*
3	2	3/4" GALVANIZED 90 ELBOWS
4	5	3/4" GALVANIZED CLOSE NIPPLE
5	1	1" - 3/4" REDUCER
6	10	3/4" LOCKNUTS
7	1	3/4" TB CONDULET
8	1	PELCO AB0155-29

\* - AS PER PLAN

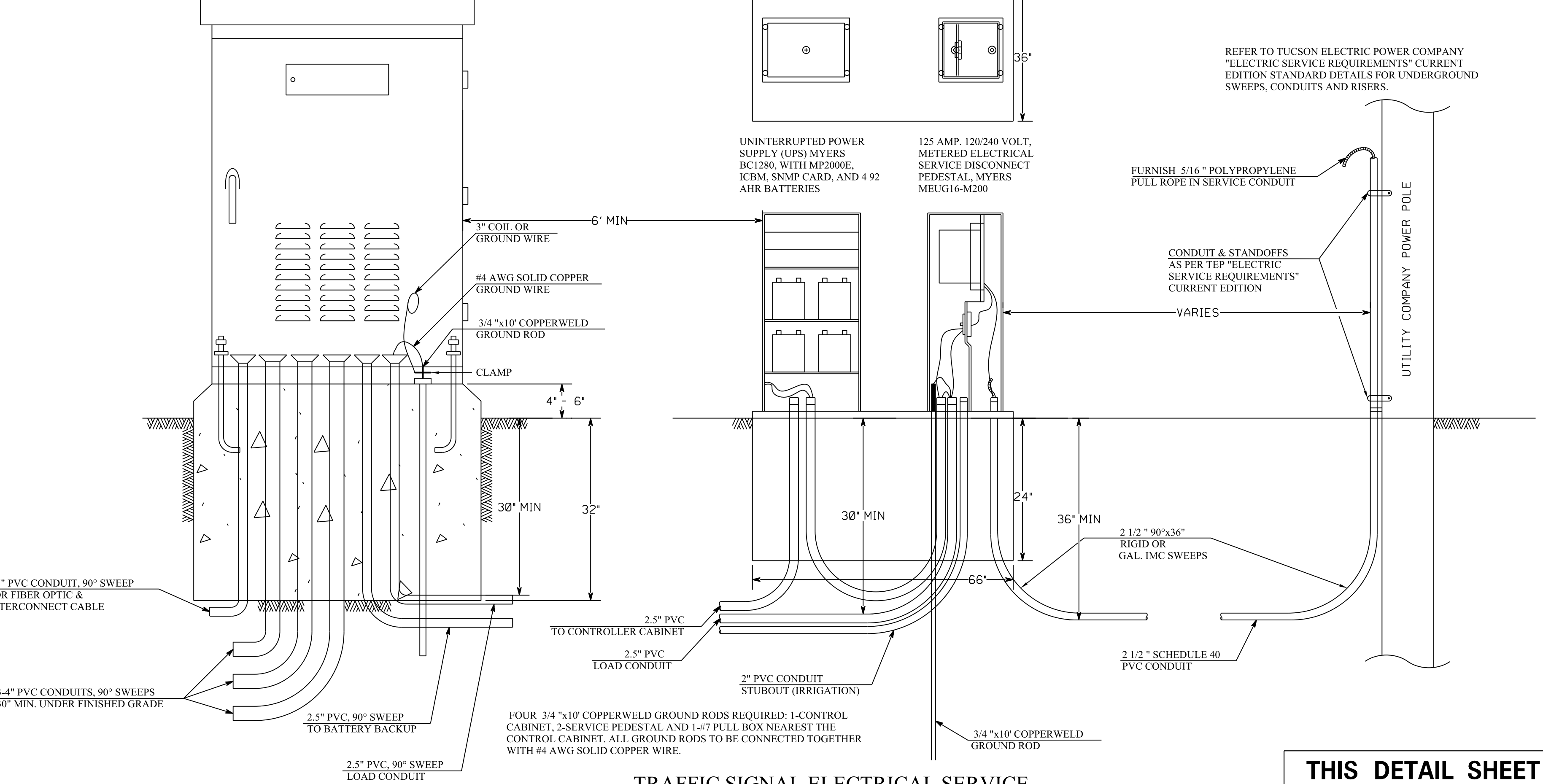
**PRE-EMPTION MOUNTING ASSEMBLY DETAIL**  
N.T.S.



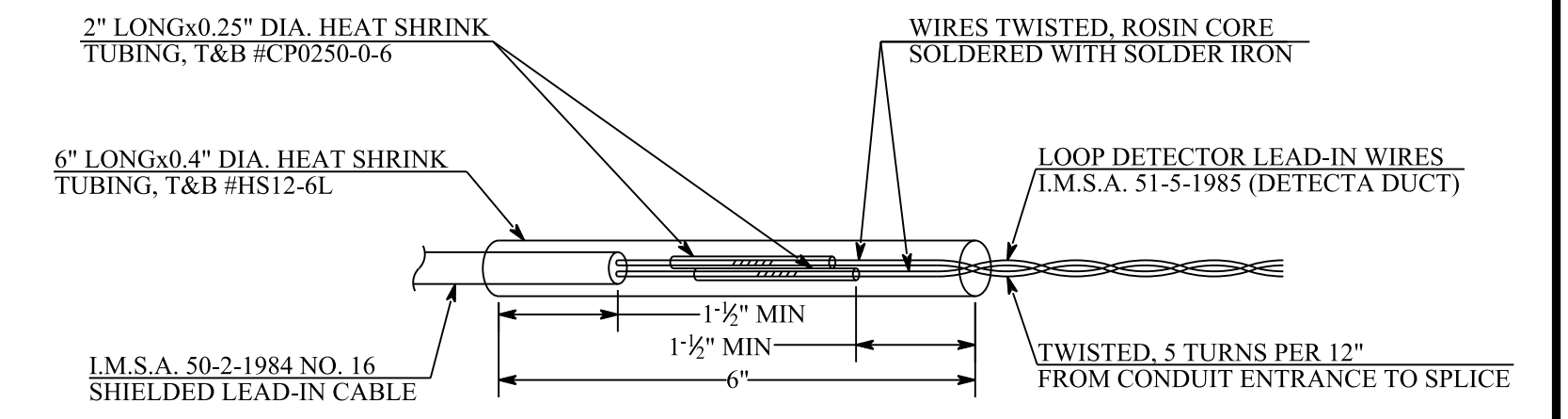
**PCDOT A POLE SIGNAL MOUNTING ASSEMBLY & BACKPLATE ORIENTATION**  
N.T.S.



REFER TO TUCSON ELECTRIC POWER COMPANY "ELECTRIC SERVICE REQUIREMENTS" CURRENT EDITION STANDARD DETAILS FOR UNDERGROUND SWEEPS, CONDUITS AND RISERS.



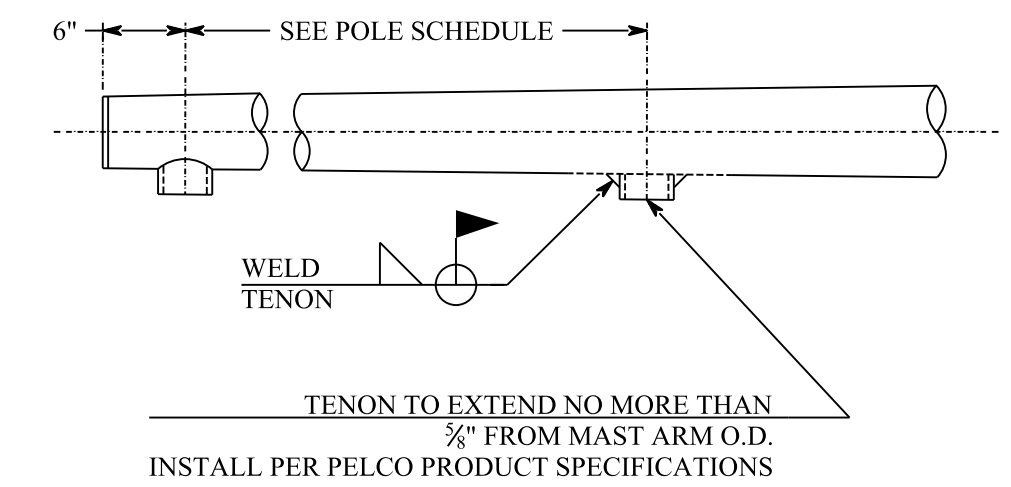
**TRAFFIC SIGNAL ELECTRICAL SERVICE**  
N.T.S.



**LOOP DETECTOR SPLICE**  
N.T.S.

1. LOOPS INSTALLED IN THE FINAL LIFT OF PAVEMENT SHALL BE SEALED WITH BLACK 3M DETECTOR LOOP SEALANT 5000 OR APPROVED EQUAL. LOOPS IN THE LEVELING COURSE MAY USE AN APPROVED ASPHALTIC EMULSION
2. ALL 6x6' SHALL BE WOUND IN A CLOCKWISE DIRECTION.
3. TAG EACH LOOP WIRE AT THE PULL BOX AS START (S), OR FINISH (F). LOOPS SHALL BE IDENTIFIED PER LANE AND DIRECTION AS PER STANDARD SPECIFICATIONS.
4. ALL SIDE BY SIDE 6x6' LOOPS TO BE CONNECTED IN SERIES (START TO FINISH TO START TO FINISH, ETC.)

**LOOP INSTALLATION NOTES**



**TENON DETAIL**  
N.T.S.

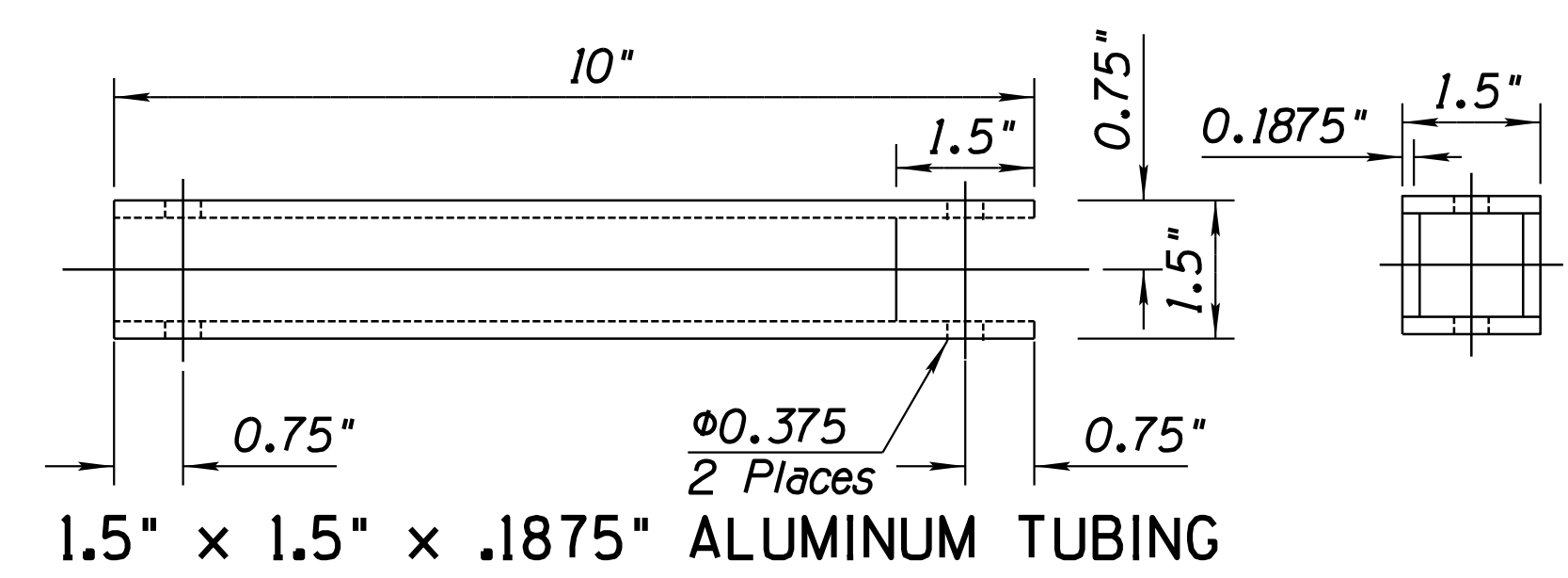
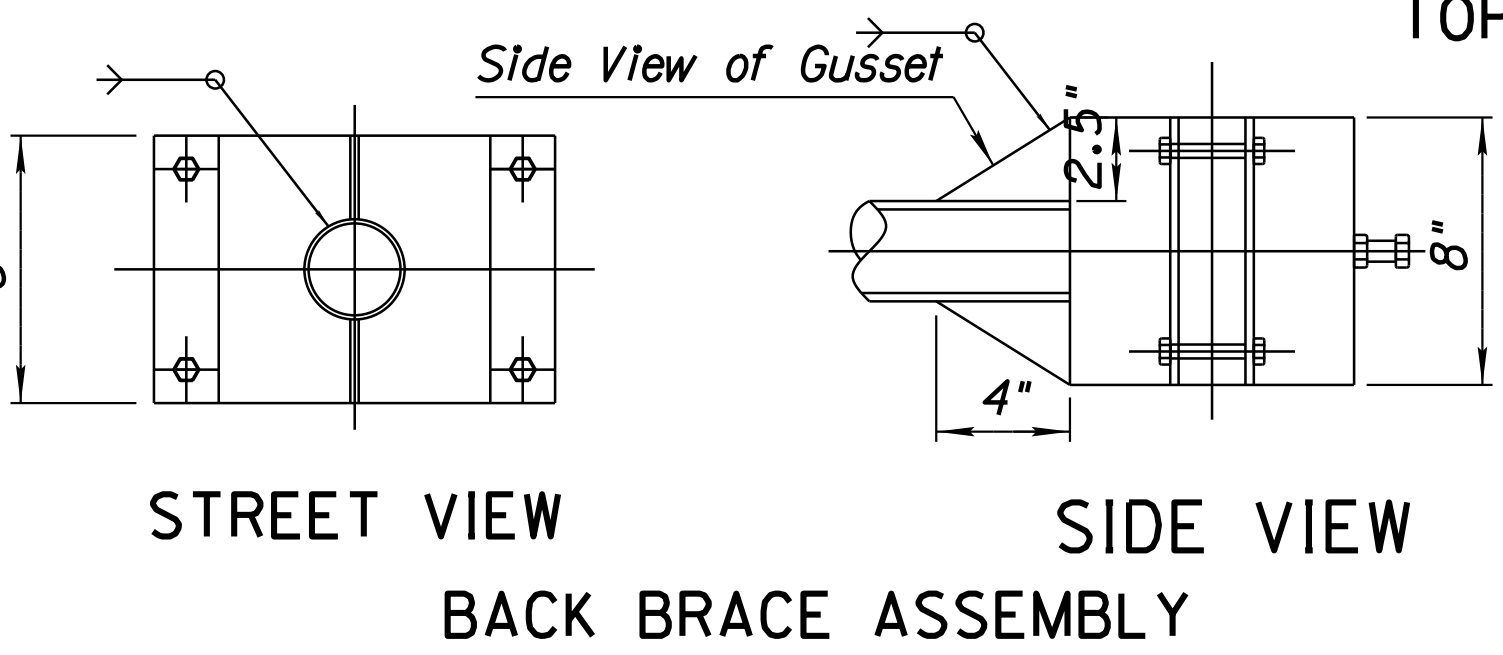
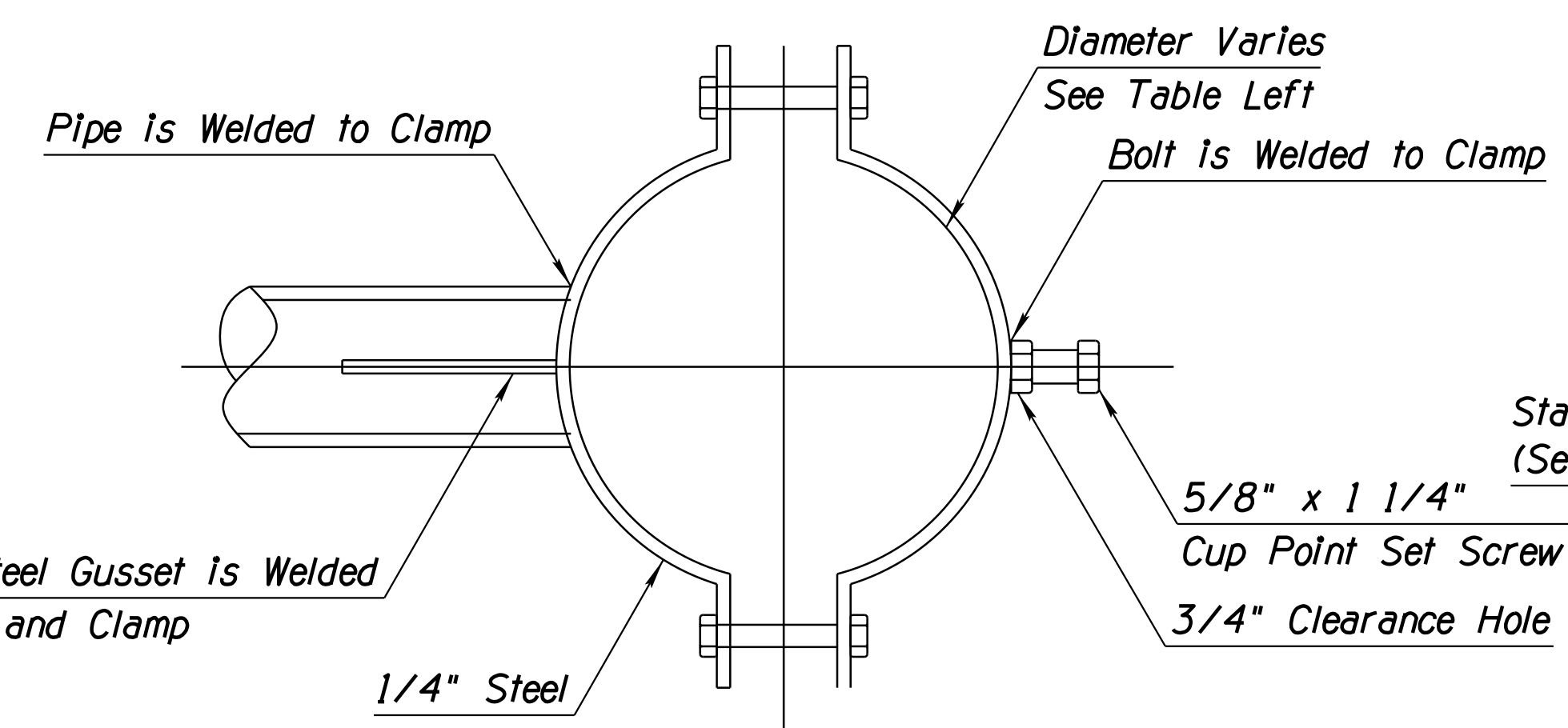
**THIS DETAIL SHEET WAS FURNISHED BY PIMA COUNTY.**

DESIGN	T. RHINE	DATE	5-19	<b>ARIZONA DEPARTMENT OF TRANSPORTATION</b> <b>INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION</b> <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	S. DEHAYBI	DATE	5-19		
CHECKED	K. CARROLL	DATE	5-19		
<b>Kimley-Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		<b>PIMA COUNTY</b> <b>SIGNAL DETAILS</b>		<b>ROUTE</b> 1-10 <b>LOCATION</b> RUTHRAUFF TI	
<b>TRACS NO.</b> H8480 OIC		<b>010-D(213)S</b>		<b>DWG NO.</b> T-12.18 <b>OF</b>	

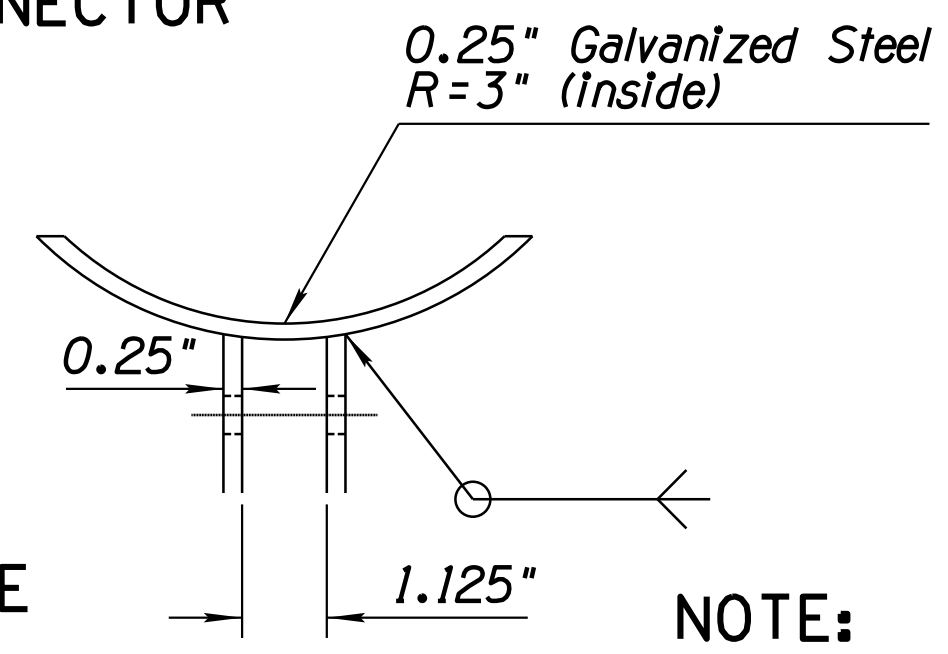
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	560	849	

010 PM 252

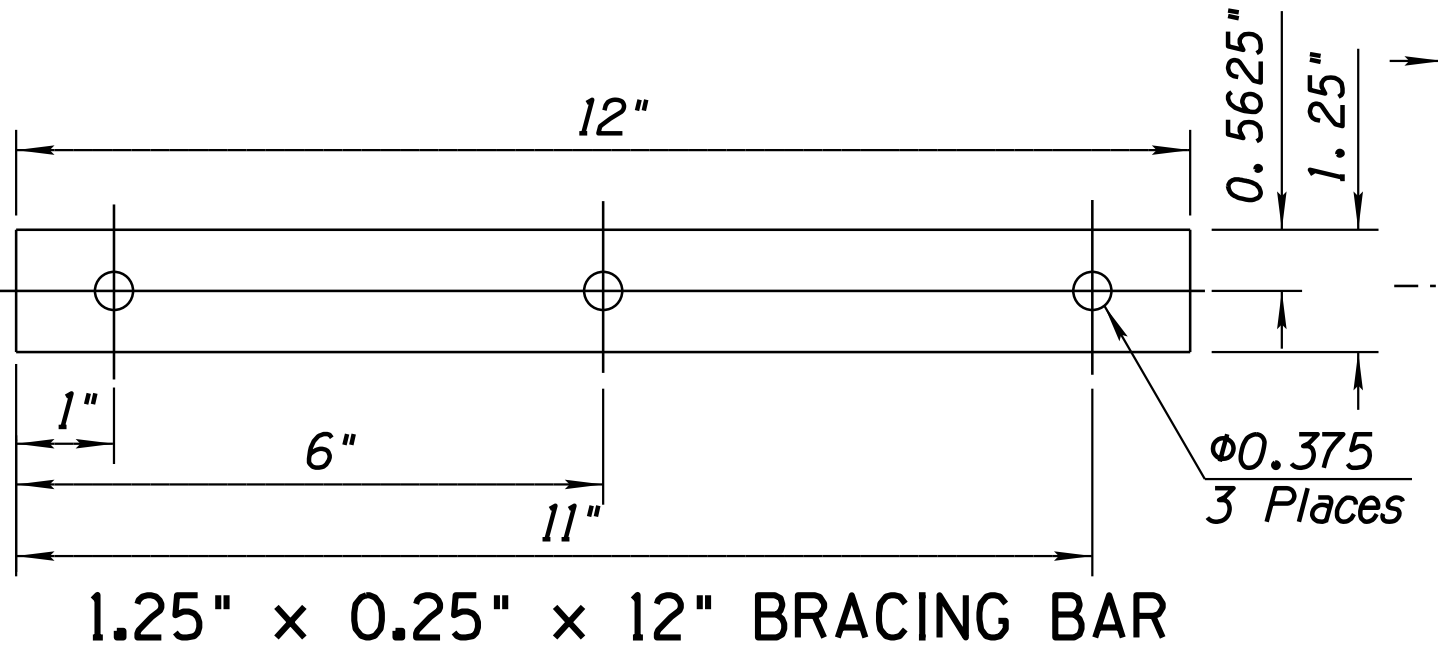
POLE TYPE	DIAMETER
F	4.64 IN
O	8.64 IN
R	10.14 IN
W	12.14 IN



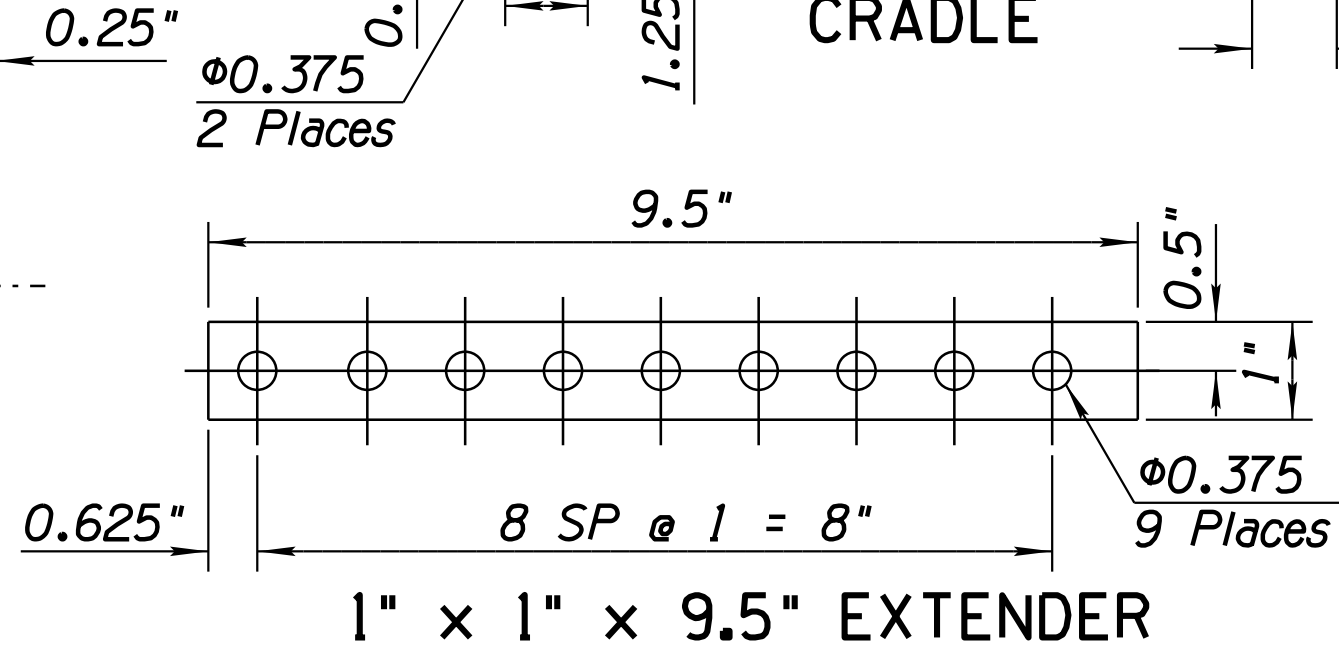
1" x 1" x 2.25" CONNECTOR



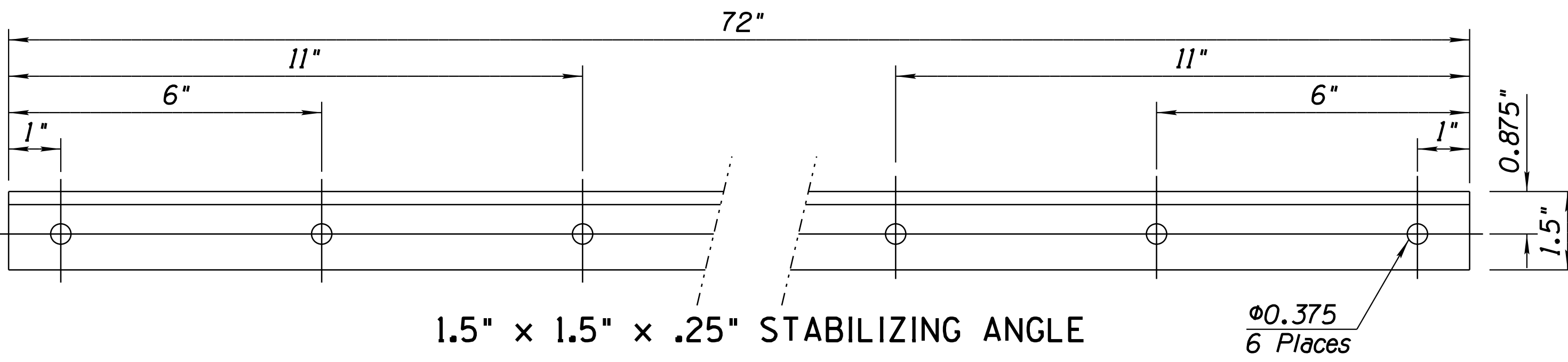
CRADLE



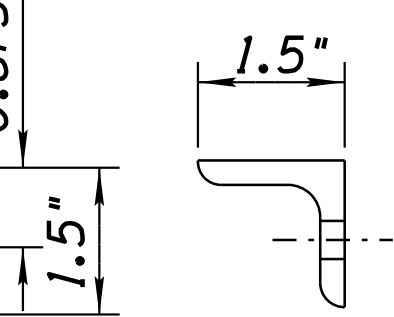
1.25" x 0.25" x 12" BRACING BAR



1" x 1" x 9.5" EXTENDER

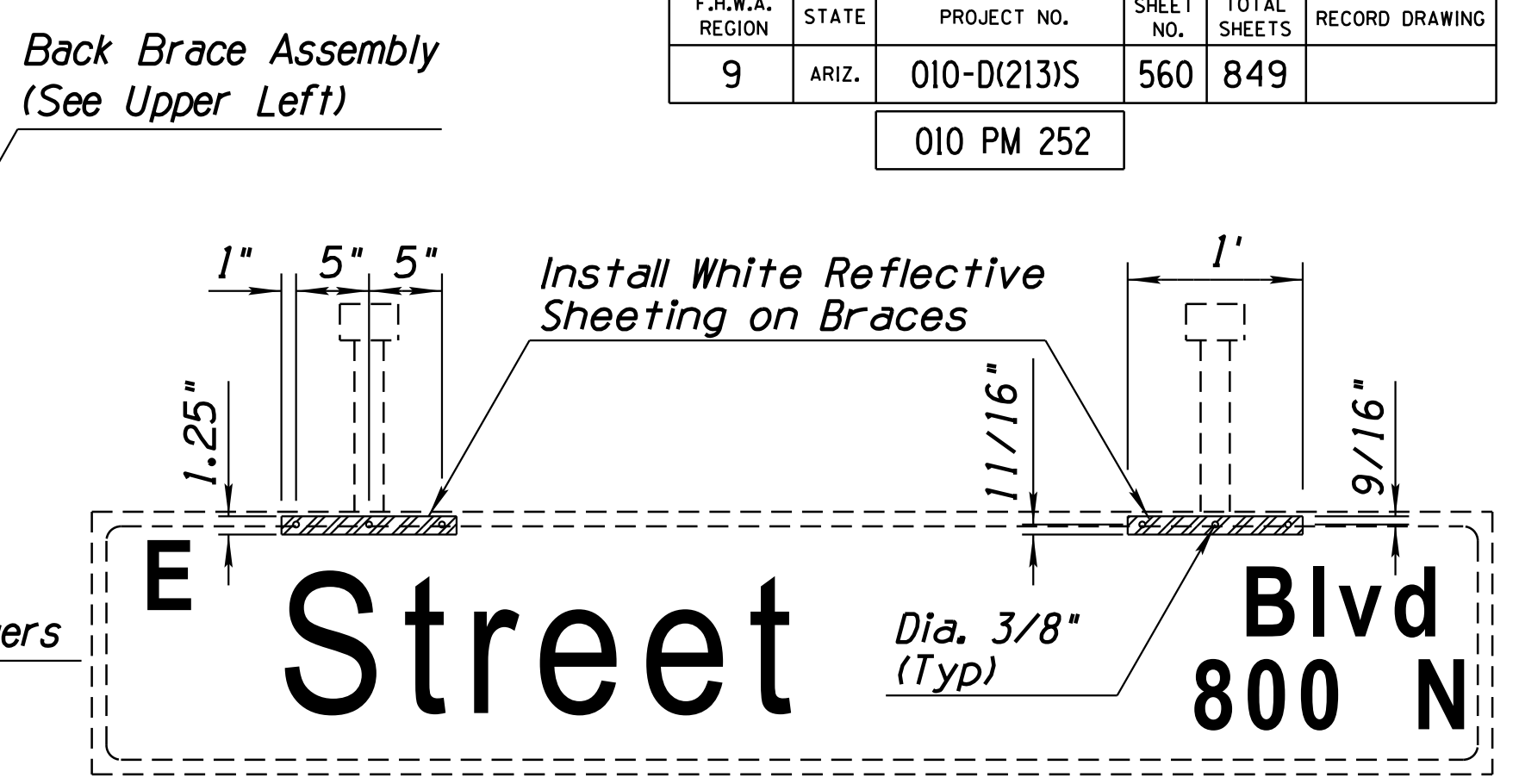
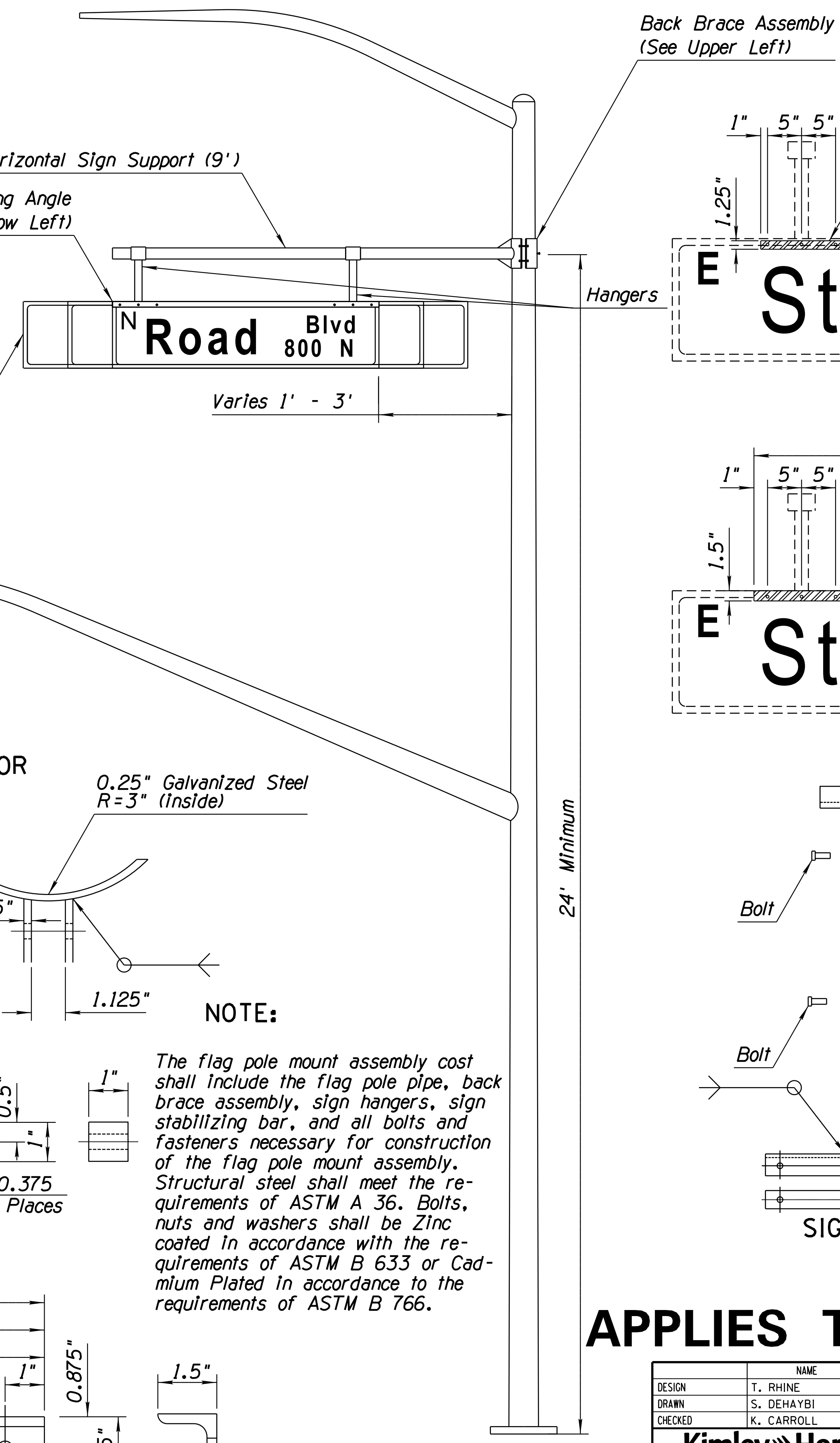


1.5" x 1.5" x .25" STABILIZING ANGLE

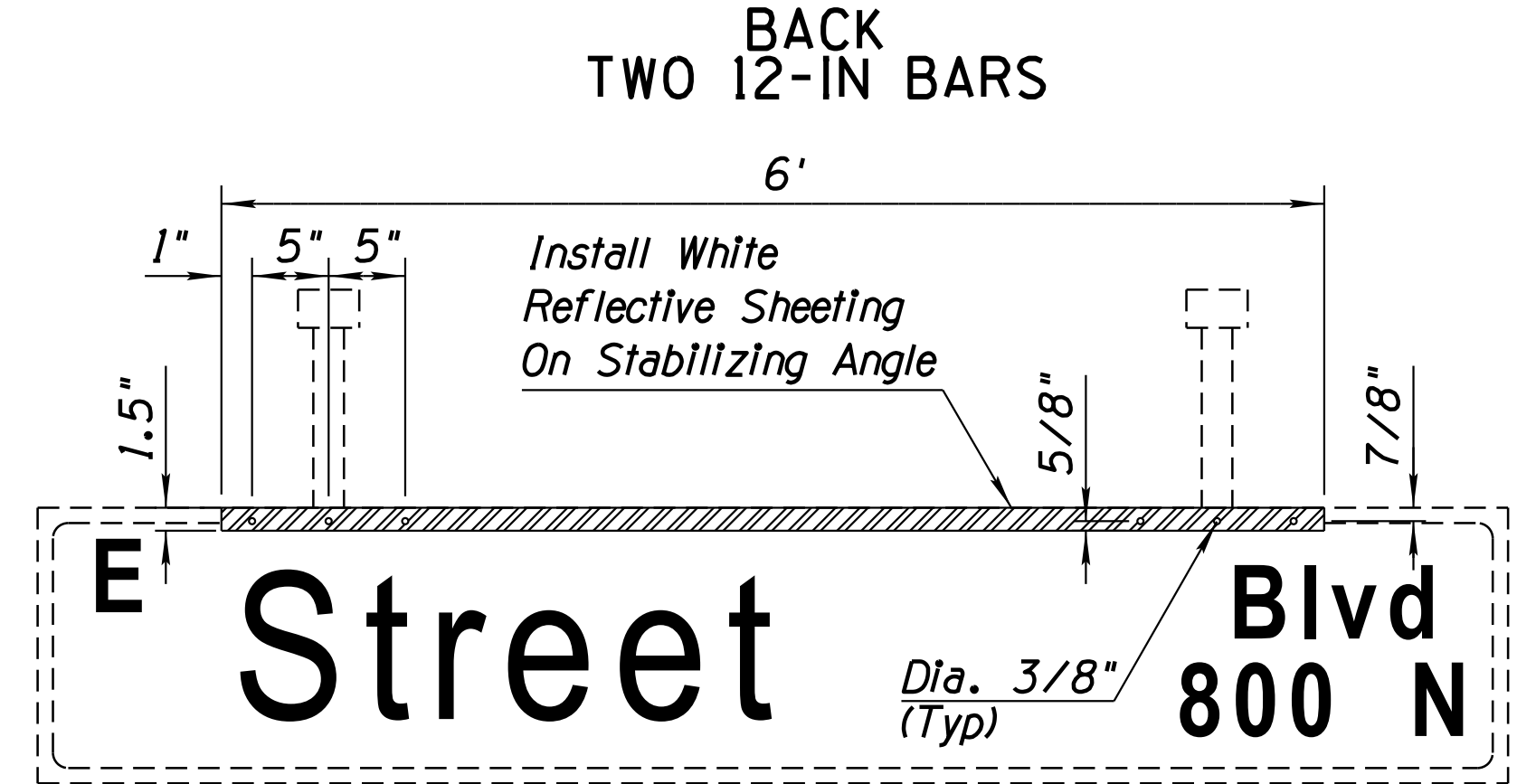


FLAG POLE SIGN MOUNT DETAIL NTS

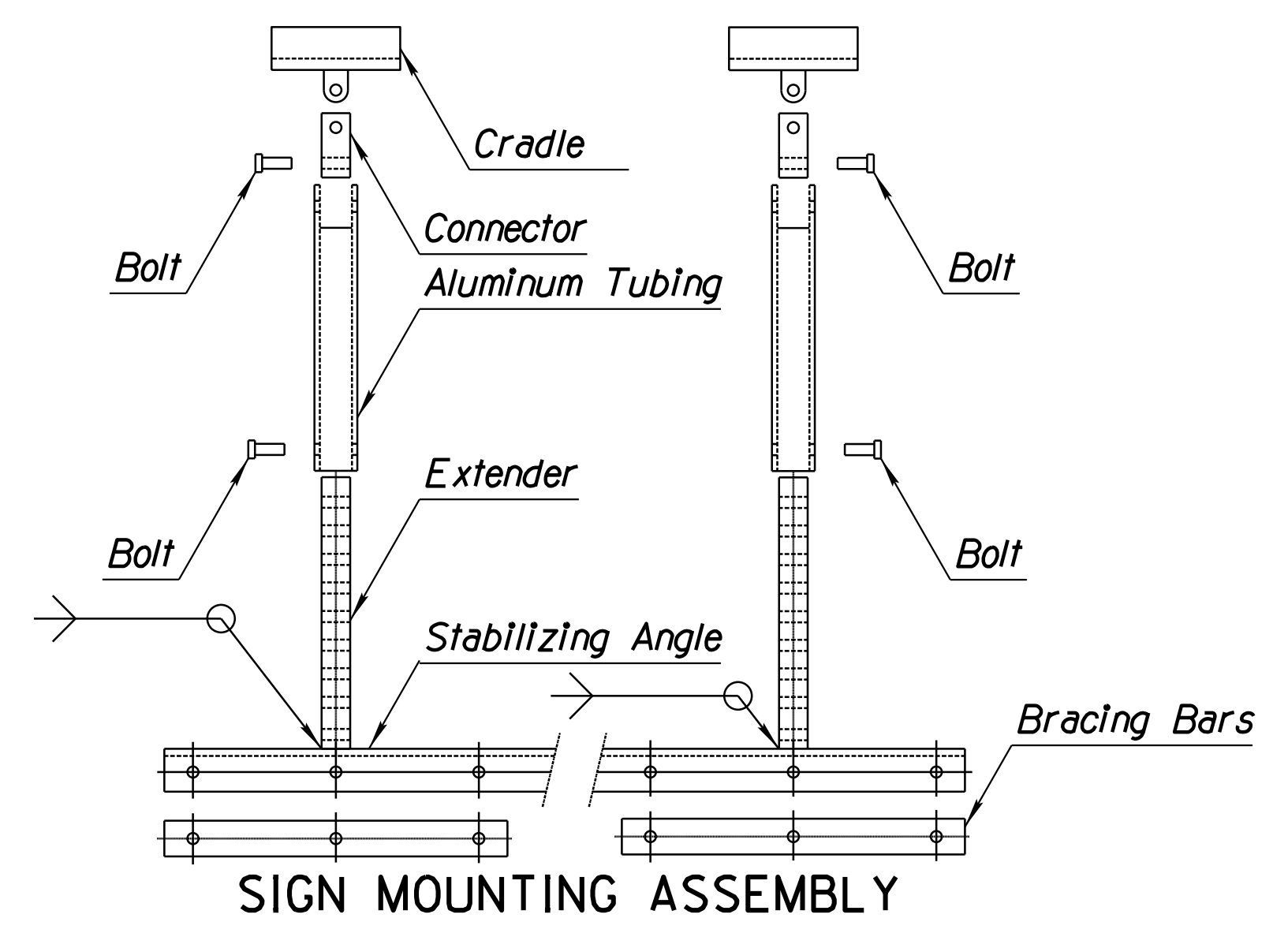
**NOTE:**  
The flag pole mount assembly cost shall include the flag pole pipe, back brace assembly, sign hangers, sign stabilizing bar, and all bolts and fasteners necessary for construction of the flag pole mount assembly. Structural steel shall meet the requirements of ASTM A 36. Bolts, nuts and washers shall be Zinc coated in accordance with the requirements of ASTM B 633 or Cadmium Plated in accordance with the requirements of ASTM B 766.



Street Blvd 800 N



Street Blvd 800 N



SIGN MOUNTING ASSEMBLY

**APPLIES TO ADOT SIGNALS**

DESIGN	T. RHINE	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	S. DEHAYBI	5-19		
CHECKED	K. CARROLL	5-19		
<b>Kimley-Horn</b>		RUTHRAUFF ROAD & I-10 SIGNAL METRO STREET SIGN MOUNTING DETAIL		60430 TIMOTHY J. RHINE One Signed 03/28/2019 ARIZONA, U.S.A.
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-12.19
TRACS NO. H8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	561	849	

010 PM 252

### SPECIAL ABBREVIATIONS

ADDR	ADDRESS	PB XXXXXXX	PULL BOX - SEVEN DIGIT IDENTIFICATION CODE
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	PD XXXXXXX	POWER DROP - SEVEN DIGIT IDENTIFICATION CODE
AMP	AMPERE	R/W	RIGHT-OF-WAY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	RMC	RIGID METAL CONDUIT
ASSY	ASSEMBLY	SMFO (XX)	SINGLE MODE FIBER OPTIC CABLE (XX) NUMBER OF FIBERS
AWG	AMERICAN WIRE GAUGE	SN	SERVICE NEUTRAL
BKR	BREAKER	T XXXXXXX	TRANSFORMER - SEVEN DIGIT IDENTIFICATION CODE
BOC	BACK OF CURB	TOC	TRAFFIC OPERATIONS CENTER
C/L	CENTER LINE	TS	TRAFFIC SIGNAL
CCTV	CLOSED CIRCUIT TELEVISION	TYP	TYPICAL
CK	CIRCUIT	W	WATTS
COND.	CONDUIT	XFMR	TRANSFORMER
C XXXXXXX	CABINET - SEVEN DIGIT IDENTIFICATION CODE		
DET.	DETECTOR		
DIA	DIAMETER		
DMS	DYNAMIC MESSAGE SIGN		
DTL.	DETAIL		
EIA	ELECTRONICS INDUSTRY ASSOCIATION		
EXST.	EXISTING		
FMS	FREEWAY MANAGEMENT SYSTEM		
GB	GREEN BOND		
G	GROUND		
INDCT	INNERDUCT		
KVA	KILO-VOLT-AMPERES		
LC XXXXXXX	LOAD CENTER-SEVEN DIGIT IDENTIFICATION CODE		
LI	LEAD-IN		
ML	MATCH LINE		

### LEGEND

EXISTING	PROPOSED	DESCRIPTION
		NO. 9 PULL BOX
		NO. 7 PULL BOX
		NO. 7 PULL BOX W/EXTENSION
		NO. 5 PULL BOX
		CABINET
		CONDUIT
		DIRECTIONAL DRILL BEGINNING AND END
		DMS
		CONDUIT WITH EXISTING CONTENTS NOTE
		CONDUIT WITH NEW CONTENTS NOTE
		CONSTRUCTION NOTE
		CAPPED CONDUIT STUB-OUT
		LOAD CENTER
		POWER DROP
		TRANSFORMER
		CCTV CAMERA
		LOOP DETECTOR

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


DESIGN	T. MCCULLOUGH	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	3-19		
CHECKED	J. KISSINGER	3-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>			I-10 FMS LEGEND AND ABBREVIATIONS	
ROUTE	LOCATION		RUTHRAUFF TI	DWG NO. T-13.01
TRACS NO. H8480 OIC			010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	562	849	

010 PM 252

## GENERAL NOTES

1. THIS PROJECT HAS BEEN DESIGNED USING ADOT'S 2015 TRAFFIC SIGNALS & LIGHTING STANDARD DRAWINGS, 2017 ITS STANDARD DRAWINGS, AND THE SPECIAL PROVISIONS.
2. THIS PROJECT HAS BEEN DESIGNED USING THE ADOT 2008 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
3. ALL CONDUIT SHALL BE PLACED IN TRENCHES ACCORDING TO SECTION 732-3.01 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE INDICATED IN THE PLANS. EXACT CONDUIT ROUTE TO BE VERIFIED WITH THE ENGINEER PRIOR TO EXCAVATION TO ACCOUNT FOR FIELD CONDITIONS. ALL CONDUIT, COMMUNICATIONS, AND ELECTRICAL CABLE SHALL BE INSTALLED ACCORDING TO NEC REQUIREMENTS.
4. ALL CONDUIT SHALL BE BACKFILLED WITH SELECT EXCAVATED BACKFILL UNLESS OTHERWISE NOTED ON THE PLANS.
5. IF THE CONDUIT ENCASED IN SELECT EXCAVATED BACKFILL MUST DEVIATE FROM A TANGENT PATH TO AVOID OBSTRUCTIONS, THE CONTRACTOR SHALL ROUTE THE CONDUIT AROUND ALL PHYSICAL OBSTRUCTIONS WITHOUT EXCEEDING THE MAXIMUM CONDUIT DEFLECTION (BOTH HORIZONTALLY AND VERTICALLY) OF 1 INCH DEFLECTION PER FOOT OF LENGTH AS SHOWN IN ITS STANDARD DETAILS.
6. ELBOWS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED IN THE PLANS.
7. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND EQUIPMENT IN RELATION TO MAJOR PHYSICAL FEATURES. THE LOCATION OF UTILITY POLES, FIRE HYDRANTS, IRRIGATION DEVICES, VEGETATION AND OTHER STATIONARY OBJECTS ALONG THE CONDUIT PATH MAY NOT BE SHOWN BUT SHALL BE IDENTIFIED BY THE CONTRACTOR AS THE CONDUIT ROUTE IS MARKED PRIOR TO TRENCHING. THE CONTRACTOR SHALL PLACE ALL CONDUIT IN A MANNER THAT MINIMIZES BENDING BOTH HORIZONTALLY AND VERTICALLY, THUS MINIMIZING INDUCED STRESSES ON CABLES DURING CABLE INSTALLATION. ALL LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONDUIT INSTALLATION.
8. DIMENSIONAL DISTANCES FOR CONDUIT LOCATIONS ARE PROVIDED TO ASSIST THE CONTRACTOR IN CONDUIT PLACEMENT. WHEN NO DIMENSIONS ARE SHOWN IN THE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING CONDUIT AND PULL BOXES AROUND EXISTING UTILITIES AND OBSTRUCTIONS.
9. ALL UNDERGROUND RIGID METAL CONDUIT BENDS SHALL BE WRAPPED WITH AN APPROVED PVC TAPE.
10. CCTV CAMERA POLES SHALL BE LOCATED IN RELATION TO THE CONTROLLER CABINET AND TRANSFORMER (IF REQUIRED). THE FINAL LOCATION OF CCTV POLES AND CABINETS SHALL BE APPROVED BY THE ENGINEER PRIOR TO EXCAVATION FOR THE FOUNDATION.
11. ALL DMS CONTROL CABLES AND DMS POWER CABLES MAY BE LOOSE INSIDE THE TUBULAR SIGN STRUCTURES.
12. ADOT SHALL BE CONTACTED BEFORE INVENTORY OF THE EXISTING CONDUIT AND PULL BOXES BEGINS.
13. THE INFORMATION SHOWN ON THE DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER OR THE ENGINEER'S AGENT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND OVERHEAD UTILITIES.
14. CONTRACTOR SHALL DIRECTIONAL DRILL NEW CONDUIT IN IDENTIFIED LOCATIONS. THE CONTRACTOR SHALL SUBMIT A DRILLING PLAN AND UTILITY PROFILE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF DIRECTIONAL DRILLING ACTIVITIES. DIRECTIONAL DRILLING SHALL BE PERFORMED UNDER ALL ROADWAYS.

DESIGN	T. MCCULLOUGH	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	3-19		
CHECKED	J. KISSINGER	3-19		
<b>Kimley»Horn</b>		FMS GENERAL NOTES		
ROUTE	LOCATION	RUTHRAUFF TI		BWG NO. T-13.02
TRACS NO. H8480 OIC		010-D(213)S		OF

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

**CONSTRUCTION NOTES:**

- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 3 REMOVE EXISTING PULL BOX.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 5 ROUTE CONDUIT INTO EXISTING PULL BOX.
- 6 REMOVE EXISTING CABLE FROM CONDUIT
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 8 INSTALL SMFO (12) INTO TRAFFIC SIGNAL CABINET.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 10 COIL 50 FEET OF EACH SMFO (12) CABLE IN PULL BOX.
- 11 INSTALL NEW COMMUNICATION EQUIPMENT WITHIN CABINET.
- 12 INSTALL NEW TYPE IV LOAD CENTER (120/240v) CABINET AND FOUNDATION. SEE LOAD CENTER TABLES.
- 13 INSTALL DEPARTMENT FURNISHED DMS CABINET ON NEW FOUNDATION.
- 14 INSTALL NEW CCTV CAMERA, CABINET, AND POLE WITH LOWERING DEVICE ON FOUNDATION.
- 15 INSTALL NEW DMS, DMS STRUCTURE, AND FOUNDATIONS.
- 16 ABANDON EXISTING CONDUIT IN PLACE.
- 17 REMOVE EXISTING CCTV CAMERA, COMPOSITE CABLE, WIRELESS EQUIPMENT, POLE, AND FOUNDATION.
- 18 EXISTING PULL BOX TO REMAIN.
- 19 REMOVE EXISTING METER PEDESTAL AND FOUNDATION.
- 20 INSTALL NEW WIRELESS ANTENNA AND RADIO ON POLE. RE-ESTABLISH COMMUNICATIONS CONNECTION TO ADJACENT TRAFFIC SIGNALS.
- 21 INSTALL NEW 6' X 6' PREFORMED LOOP DETECTOR CENTERED IN LANE PER ITS STD. DWG. FM-5.03.
- 22 INSTALL DETECTION CABINET ON NEW FOUNDATION.
- 23 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. ALL EXISTING CONDUITS AND CABLING SHALL BE PROTECTED IN PLACE.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

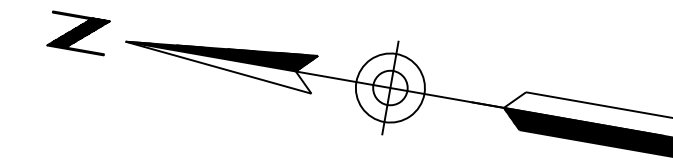
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	563	849	

010 PM 252

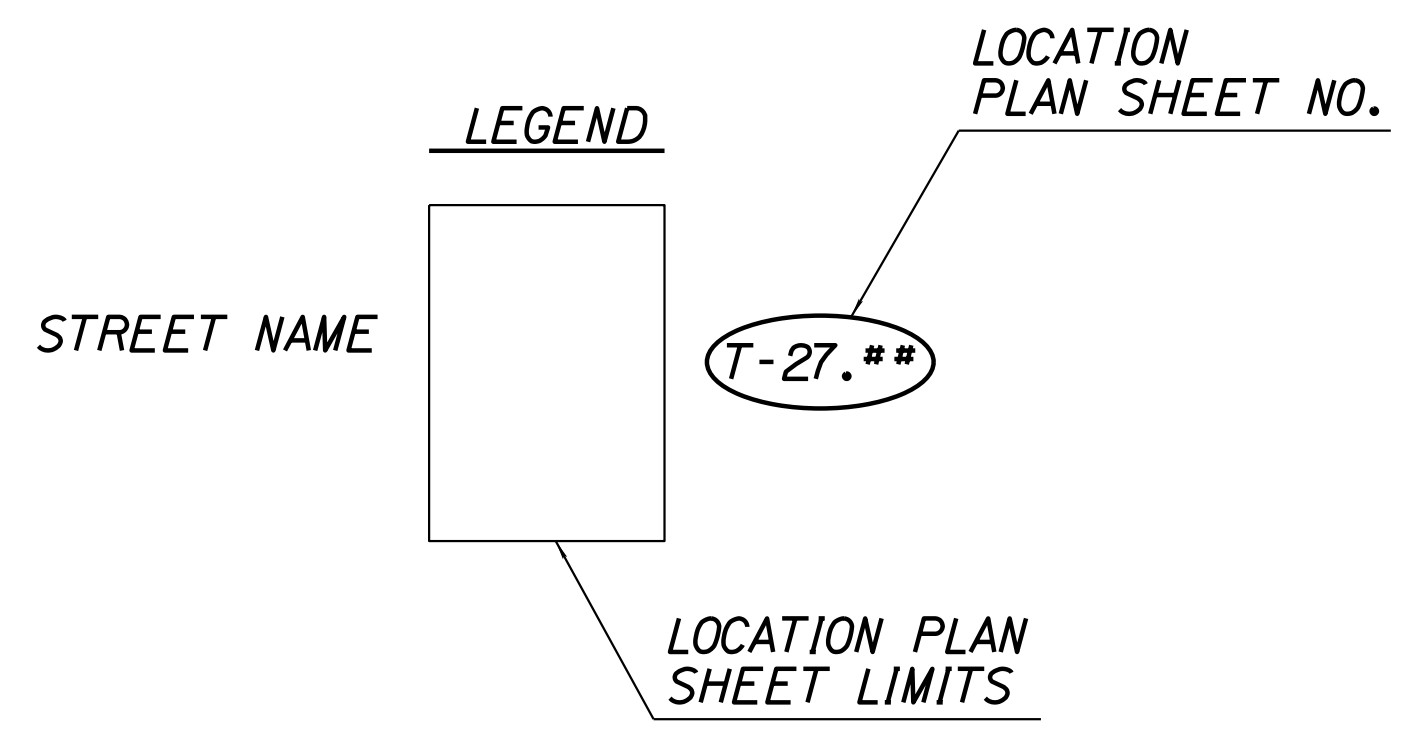
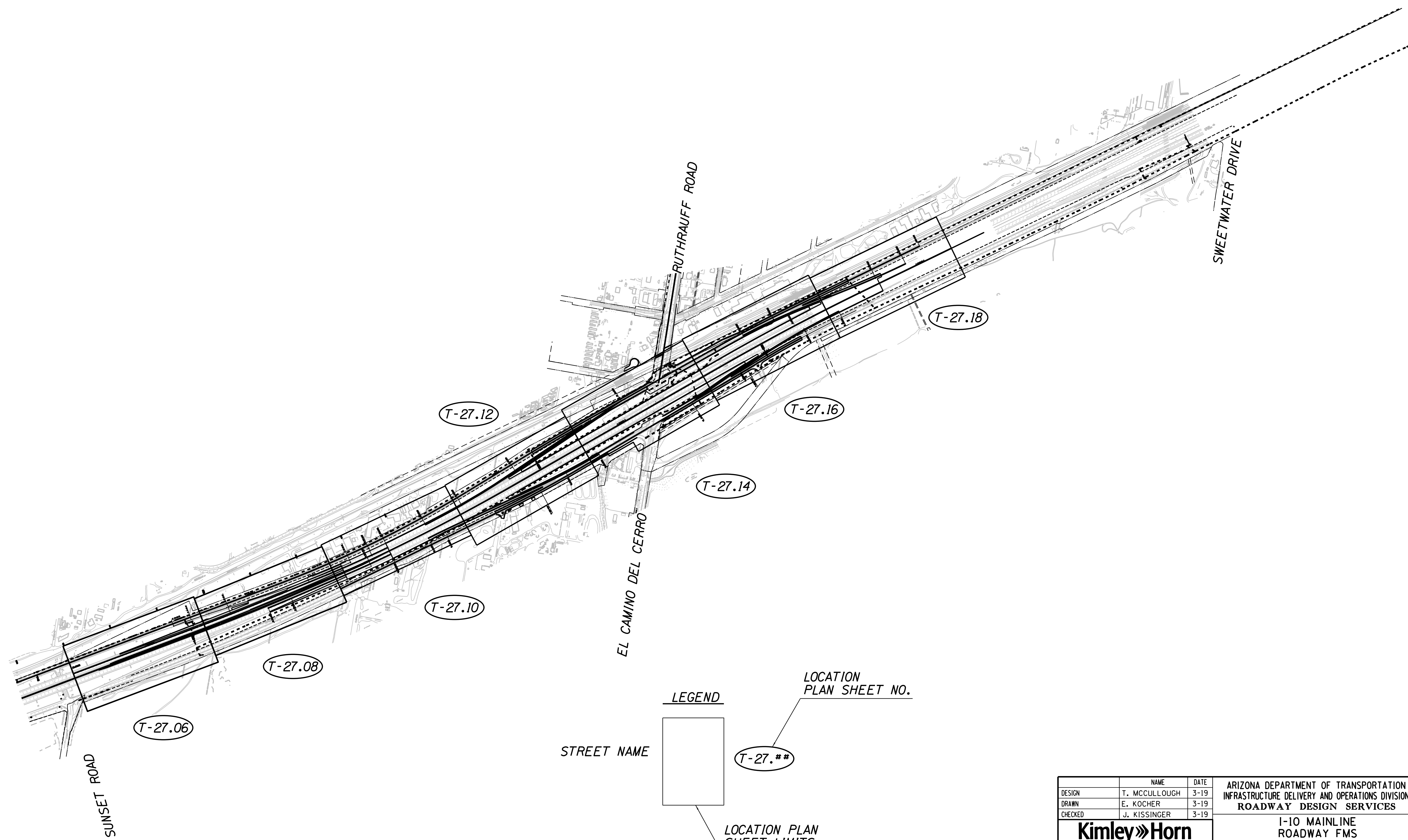
DESIGN	T. MCCULLOUGH	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	3-19		
CHECKED	J. KISSINGER	3-19		
<b>Kimley»Horn</b>		ROADWAY FMS CONSTRUCTION NOTES		
ROUTE	LOCATION	RUTHRAUFF T1		DWG NO. T-13.03
TRACS NO. H8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	564	849	

010 PM 252



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

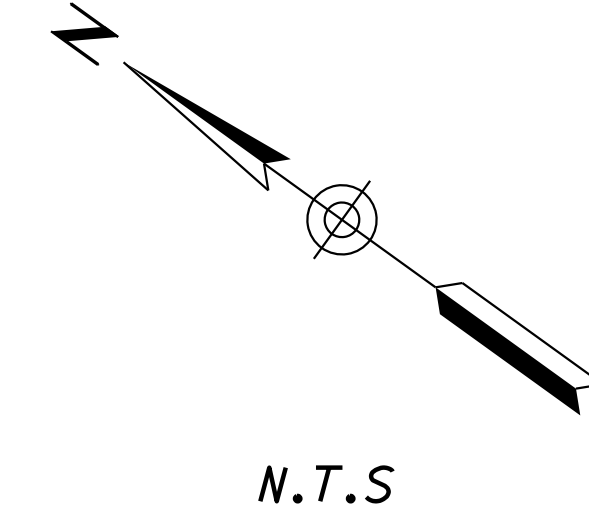


DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>				I-10 MAINLINE ROADWAY FMS KEY MAP	
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.					
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. T-13.04	
				OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	565	849	

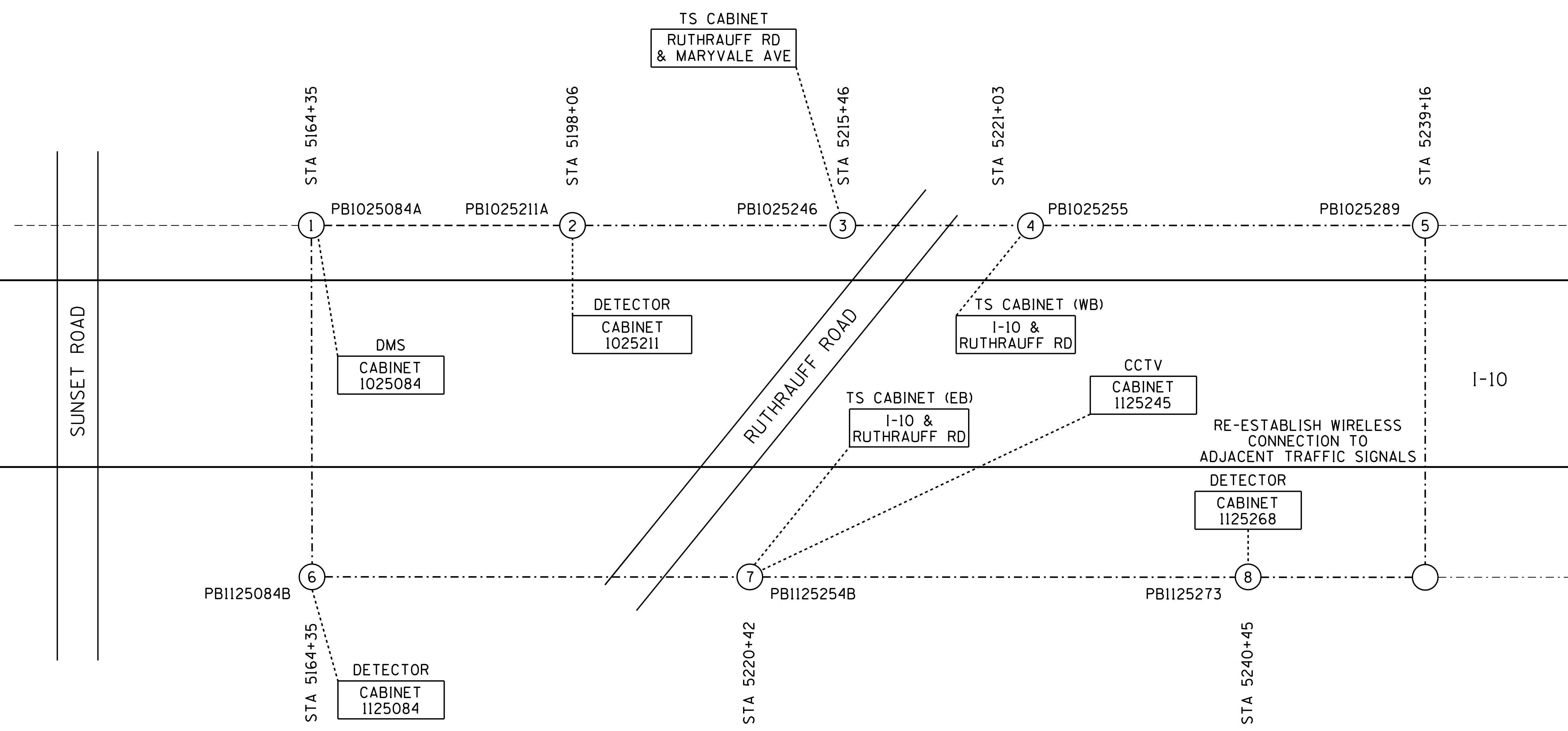
010 PM 252



**LEGEND:**

- CABINET  
XXXXXXX — PROPOSED CABINET IDENTIFICATION NUMBER
- ⊙ — NO. 9 PULL BOX (WITH SPLICE LOCATION NUMBER)
- ⊙ — EXISTING NO. 9 PULL BOX (WITH SPLICE LOCATION NUMBER)
- PROPOSED SMFO (12) CABLE
- EXISTING SMFO (48) CABLE TO REMAIN
- PROPOSED SMFO (96) CABLE
- EXISTING SMFO (96) CABLE TO REMAIN

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

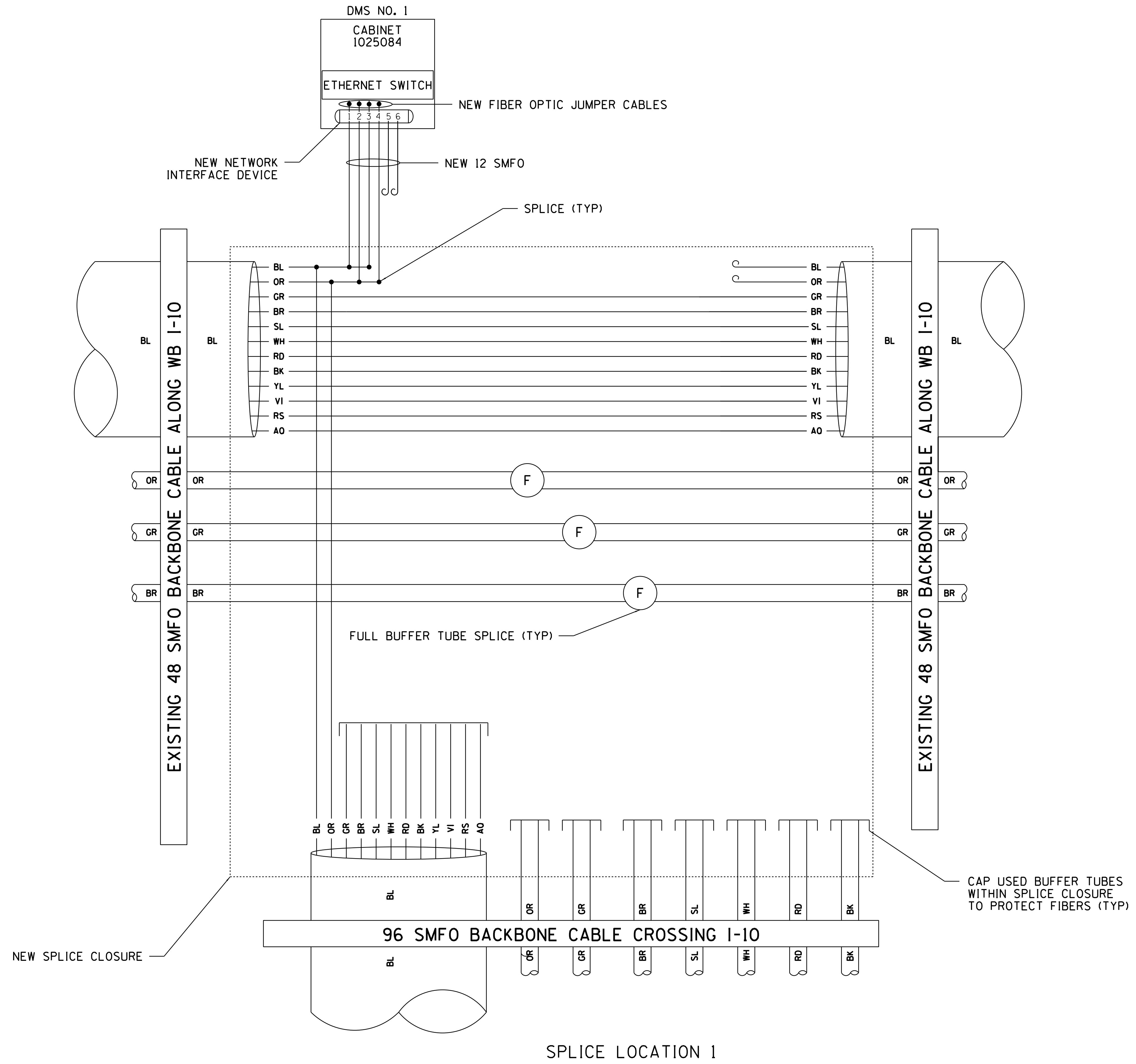


DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		COMMUNICATION CABLING SCHEMATIC	
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
					DWG NO. T-13.05
					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	566	849	

010 PM 252

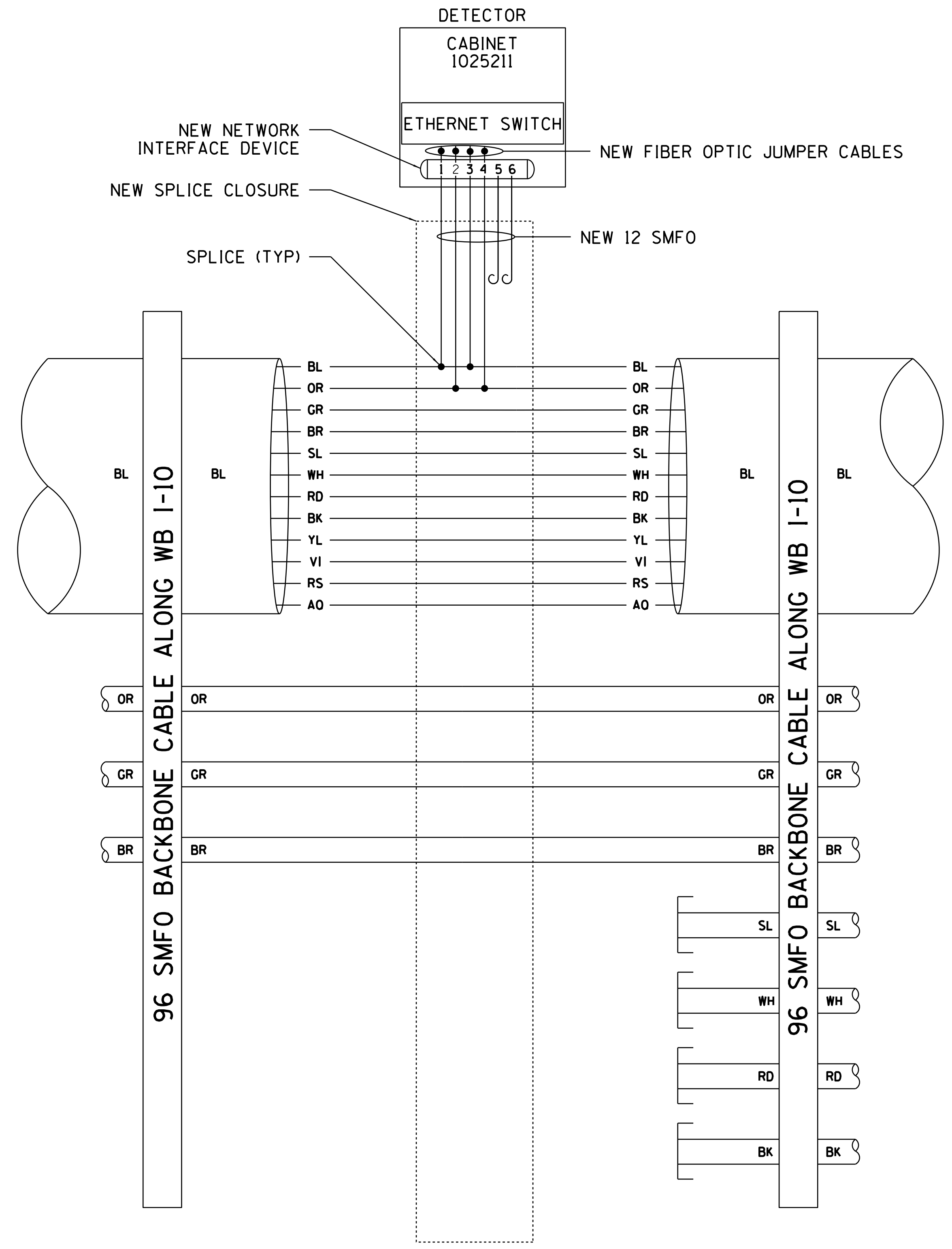
SURVEY NO. FINISHED PLANS LOCATION DATE SURVEY NO. FINISHED PLANS LOCATION DATE REVISIONS FINISHED PLANS LOCATION DATE SURVEY NO. FINISHED PLANS LOCATION DATE



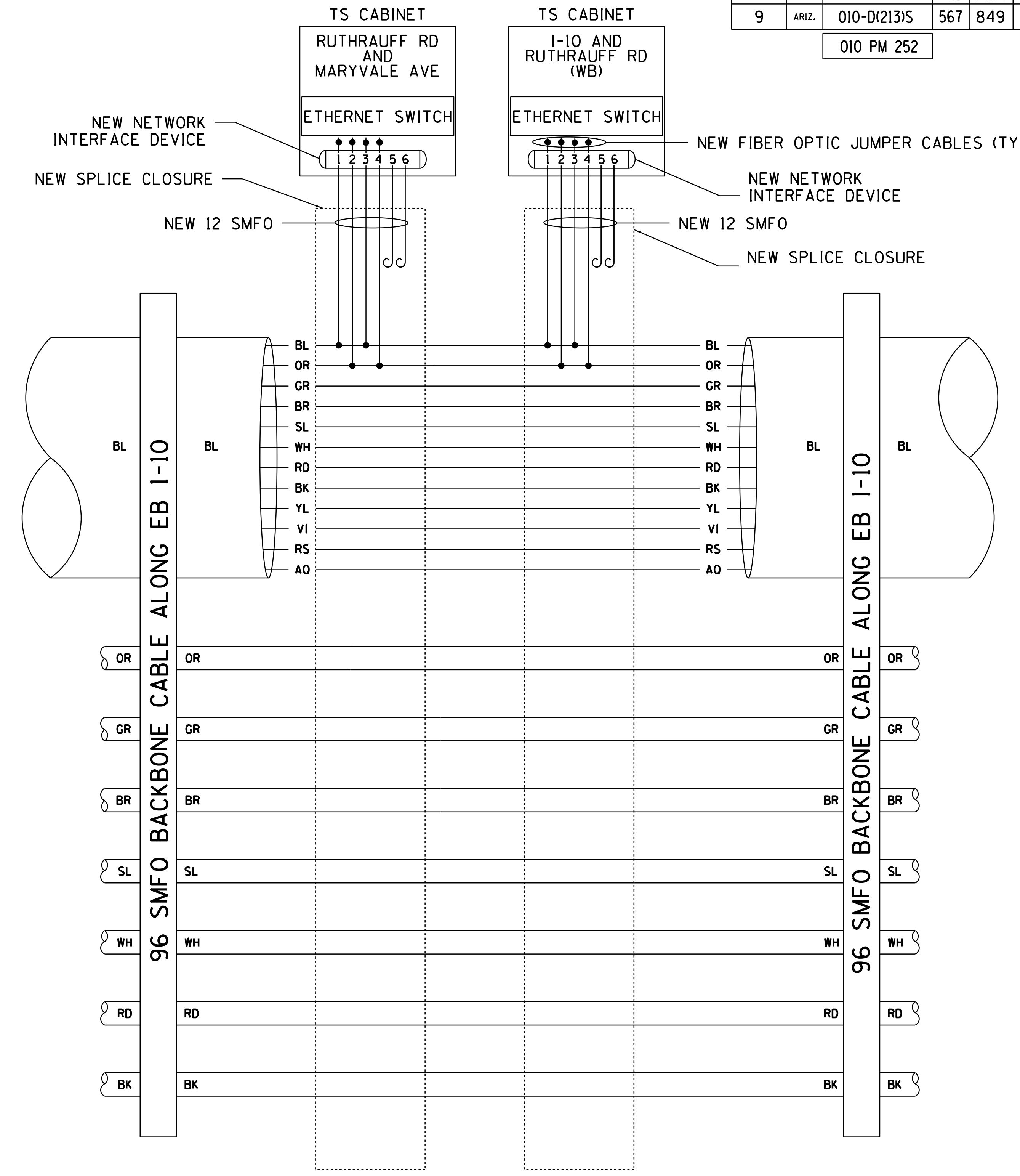
DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		<b>SPlice DETAILS LOCATION 1</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC			010-D(213)S		
			OF		

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	567	849	
010 PM 252					

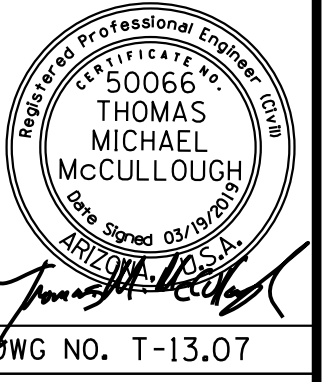


SPLICE LOCATION 2



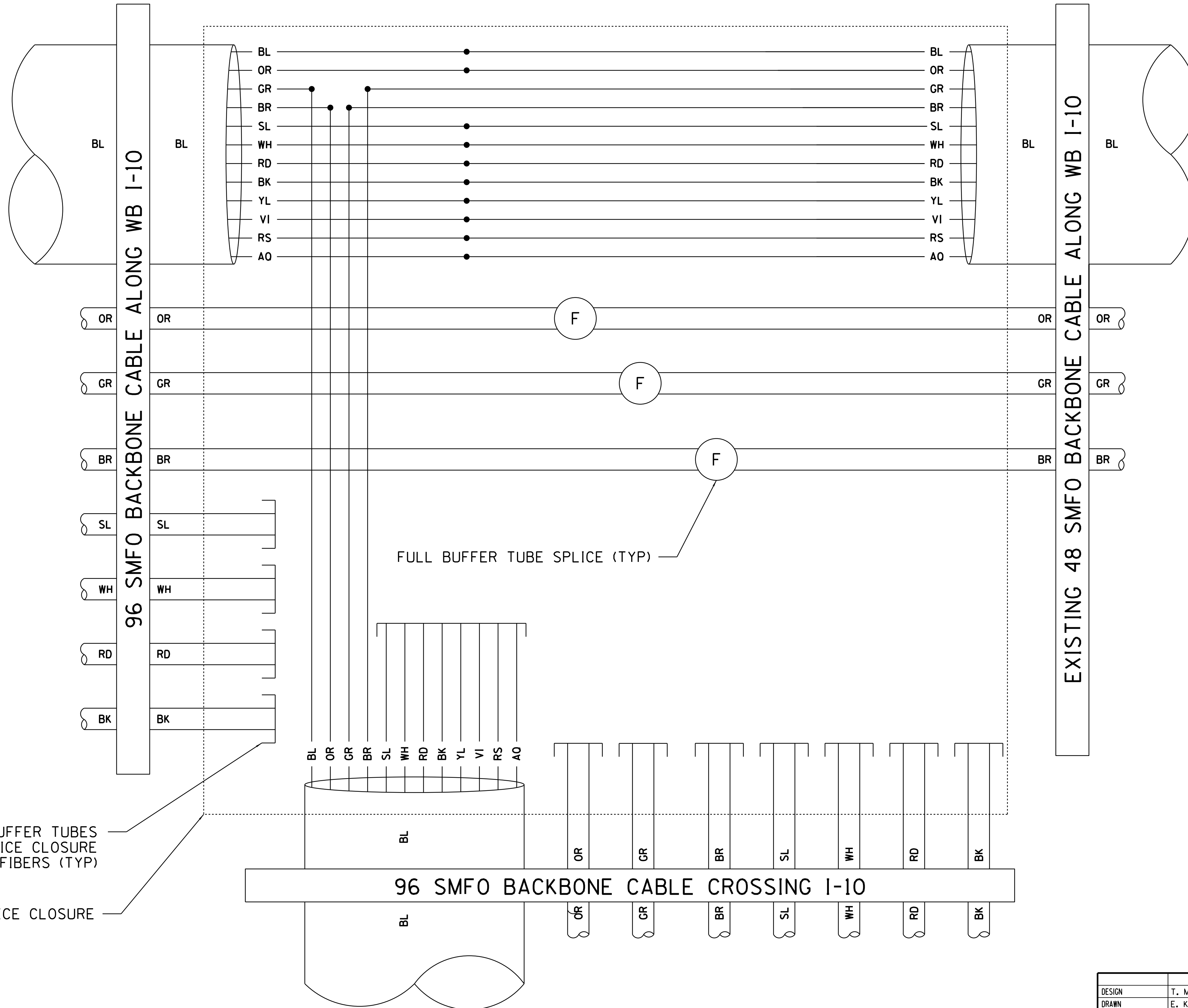
SPLICE LOCATION 3 & 4

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	SPLICE DETAILS LOCATIONS 2-4
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		ROUTE 1-10 LOCATION RUTHRAUFF TI	
TRACS NO. H8480 OIC			010-D(213)S		
					DWG NO. T-13.07



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	568	849	

010 PM 252



SPLICE LOCATION 5

CAP USED BUFFER TUBES WITHIN SPLICE CLOSURE TO PROTECT FIBERS (TYP)

NEW SPLICE CLOSURE

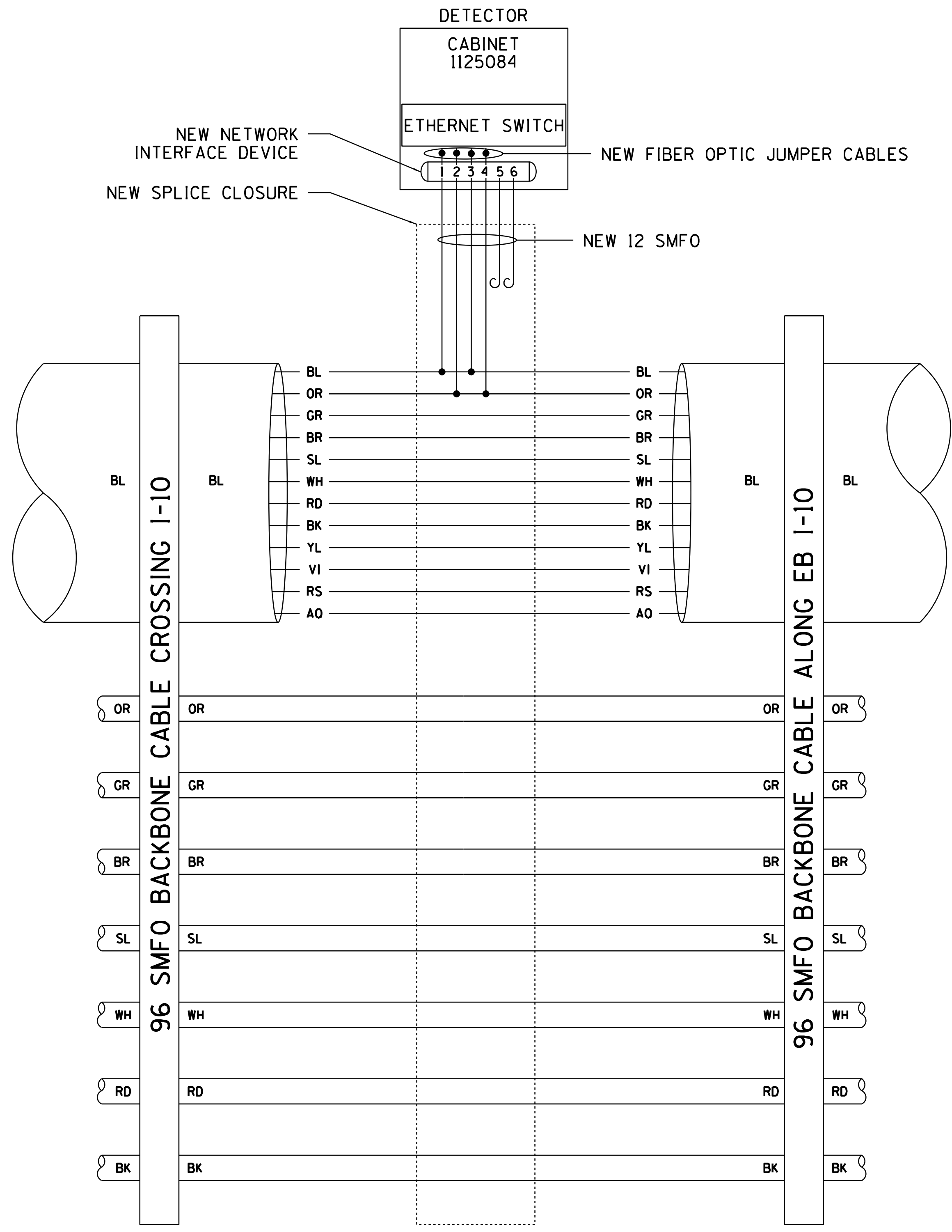
FULL BUFFER TUBE SPLICE (TYP)

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>				SPLICE DETAILS LOCATION 5	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. T-13.08	

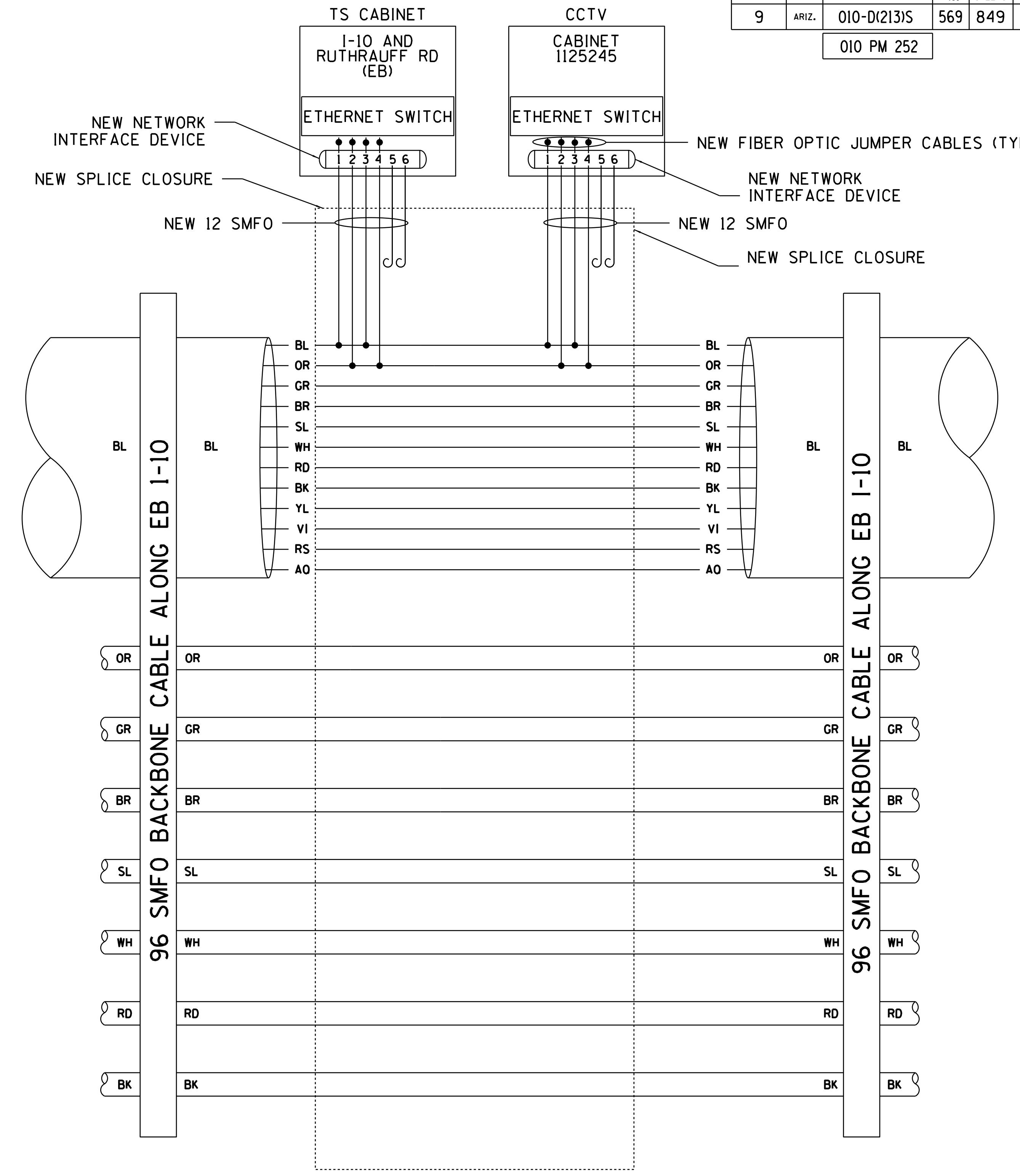
SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	569	849	
010 PM 252					



SPLICE LOCATION 6

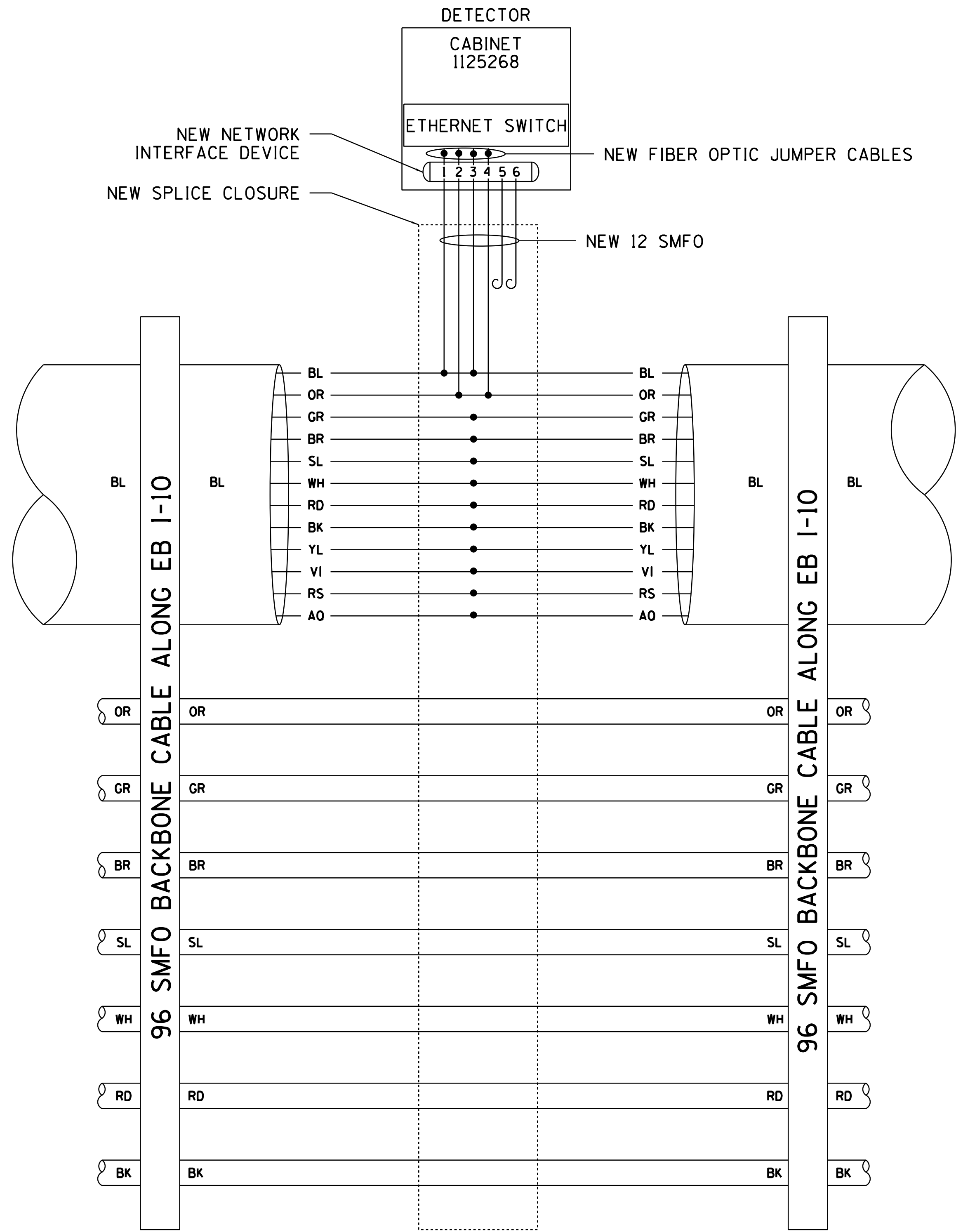


SPLICE LOCATION 7

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	SPLICE DETAILS LOCATIONS 6-7
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>				© 2019 KIMLEY-HORN AND ASSOCIATES, INC.	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC	010-D(213)S			
				DWG NO. T-13.09	
				OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	570	849	

010 PM 252



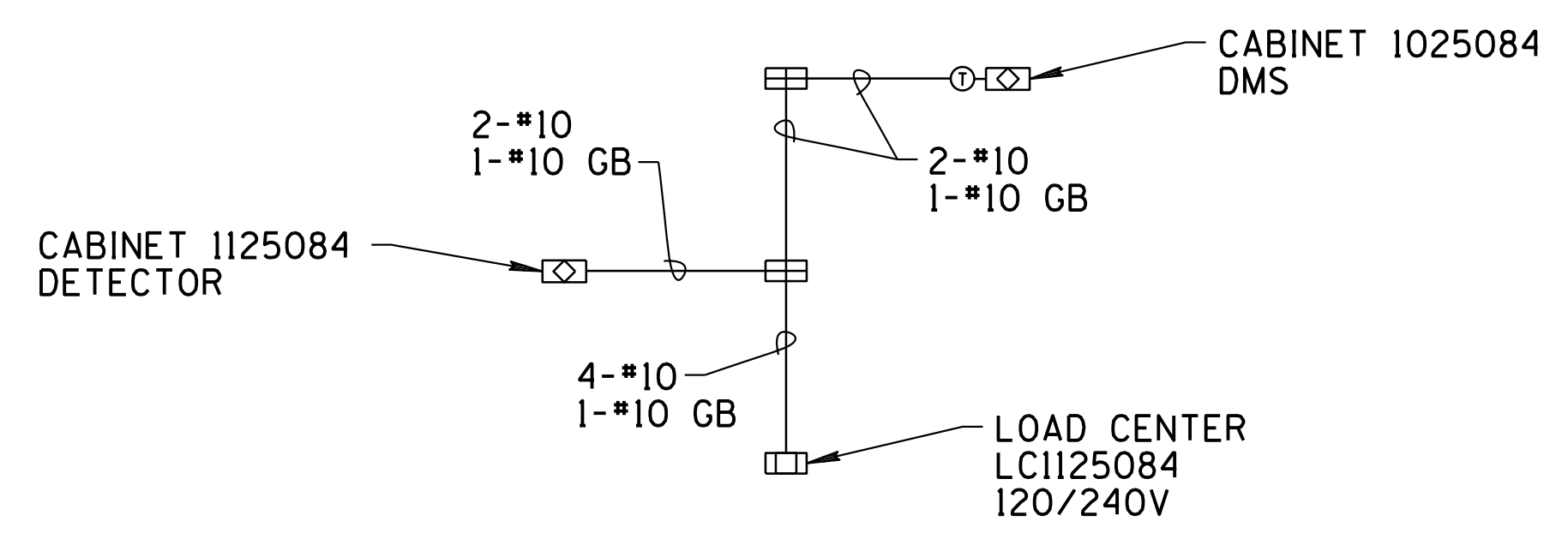
SPLICE LOCATION 7

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

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>				SPLICE DETAILS LOCATION 7	
ROUTE	I-10	LOCATION	RUTHRAUFF TI		
TRACS NO.	H8480 OIC		010-D(213)S	DWG NO. T-13.10 OF	

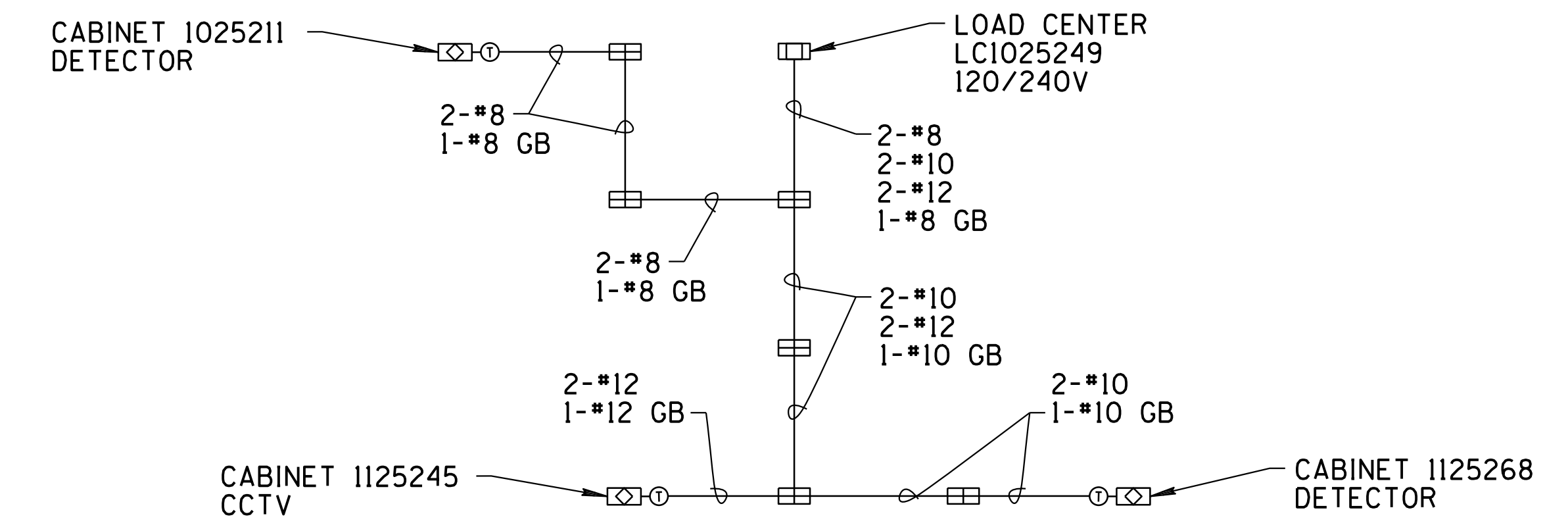
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	571	849	

010 PM 252



ELECTRICAL SERVICE ONE-LINE DIAGRAM

LOAD CENTER TABLE					
LOAD CENTER No:		1125084 (NEW LC WEST OF I-10 BTWN SUNSET RD AND RUTHRAUFF RD)			
LOAD CENTER LOCATION:		TBD			
LOAD CENTER TYPE:		IV (MODIFIED) WITH METER ON SIDE OF CABINET			
LOAD CENTER XFMR SIZE:		15 KVA			
MAIN CIRCUIT BKR:		100 AMP, 2 POLE			
CK BKR PANEL NUMBER	CK BKR	BKR AMPS	OUTPUT VOLTS	CABINET #	LOAD AMPS
1	A	20	120	1125084	14.8
1	C				
1	E				
1	G				
1	J				
				AMPS @ 120V	14.8
2	A-B	20	480	1025084	11.2
2	C-D				
2	E-F				
2	G-H				
2	J-K				
2	L-M				
2	N-P				
2	R-S				
				AMPS @ 480V POWER	11.2 7,152W
				SERVICE AMPS @ 240V	29.8



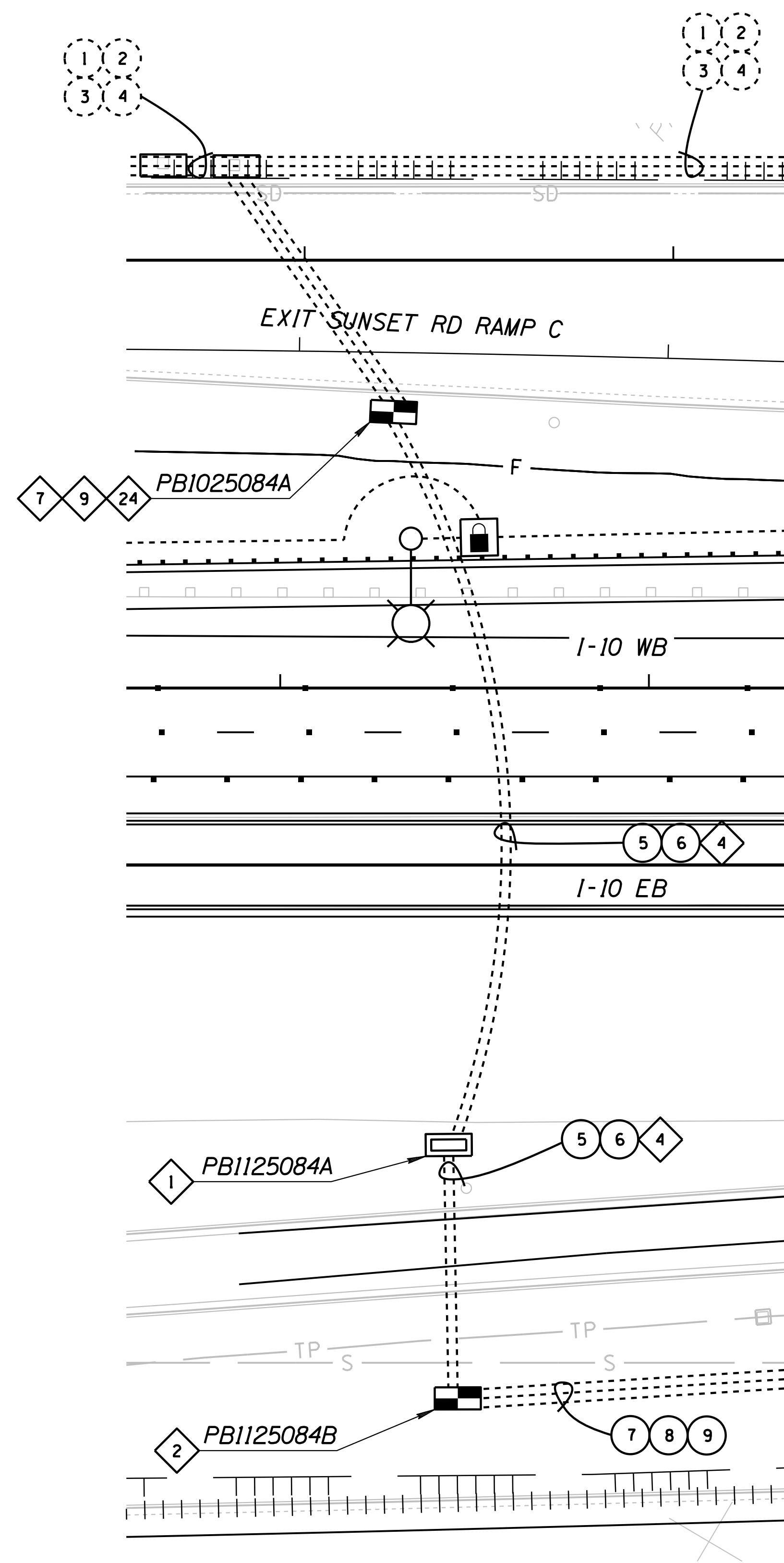
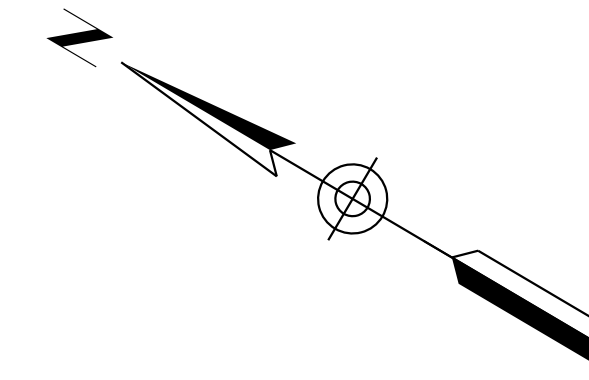
ELECTRICAL SERVICE ONE-LINE DIAGRAM

LOAD CENTER TABLE					
LOAD CENTER No:		1025249 (NEW LC AT SE CORNER I-10 AND RUTHRAUFF RD)			
LOAD CENTER LOCATION:		TBD			
LOAD CENTER TYPE:		IV (MODIFIED) WITH METER ON SIDE OF CABINET			
LOAD CENTER XFMR SIZE:		15 KVA			
MAIN CIRCUIT BKR:		100 AMP, 2 POLE			
CK BKR PANEL NUMBER	CK BKR	BKR AMPS	OUTPUT VOLTS	CABINET #	LOAD AMPS
1	A				
1	C				
1	E				
1	G				
1	J				
				AMPS @ 120V	
2	A-B	20	480	1025211	3.7
2	C-D	20	480	1125245	3.5
2	E-F	20	480	1125268	3.7
2	G-H				
2	J-K				
2	L-M				
2	N-P				
2	R-S				
				AMPS @ 480V POWER	10.9 5,232W
				SERVICE AMPS @ 240V	21.8

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>				LOAD CENTER CIRCUIT TABLES	
ROUTE	1-10	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S			OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	572	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

**NOTES:**

- 1 ALL NEW CONDUITS, PULL BOXES, AND 96 SMFO CABLING SHALL BE INSTALLED ALONG I-10 EB TO PROVIDE A COMPLETE INTERIM CONNECTION.

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

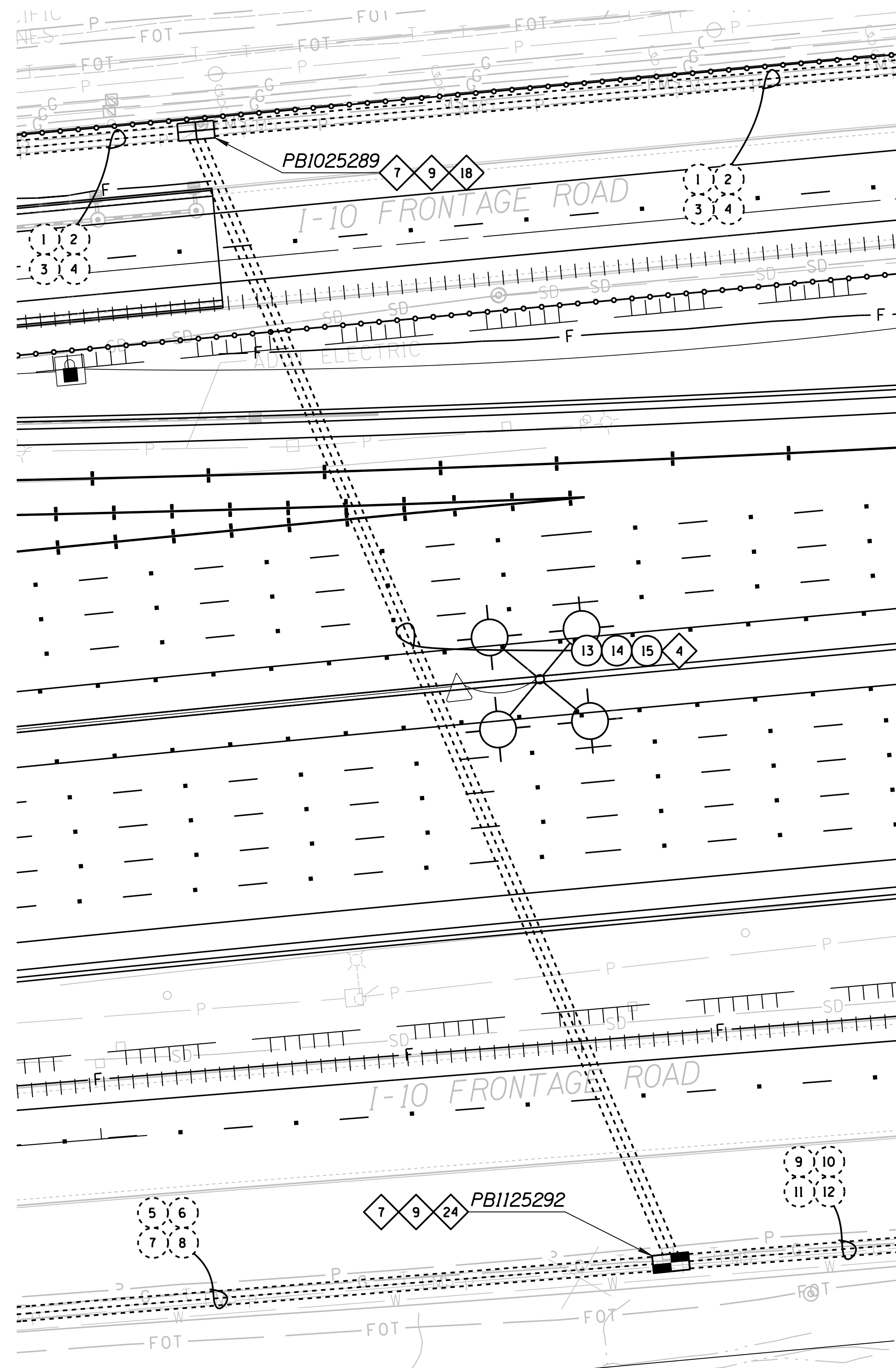
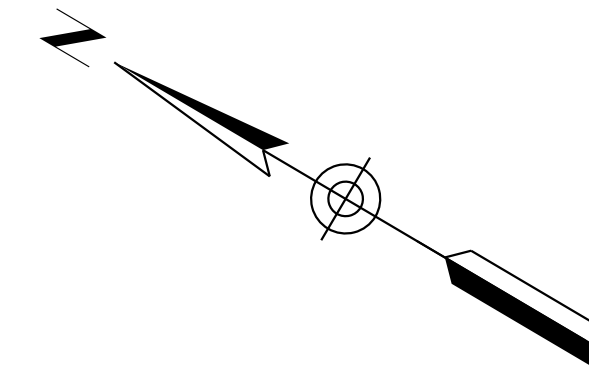
DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  1-10 MAINLINE FMS INTERIM CONNECTION STA 5164+35	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b> <small>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.</small>		ROUTE: I-10      LOCATION: RUTHRAUFF TI		DWG NO. T-13.12	
TRACS NO. H8480 OIC			010-D(213)S		OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	574	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 18 EXISTING PULL BOX TO REMAIN.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

**NOTES:**

- 1 ALL NEW CONDUITS, PULL BOXES, AND 96 SMFO CABLING SHALL BE INSTALLED ALONG I-10 EB TO PROVIDE A COMPLETE INTERIM CONNECTION.

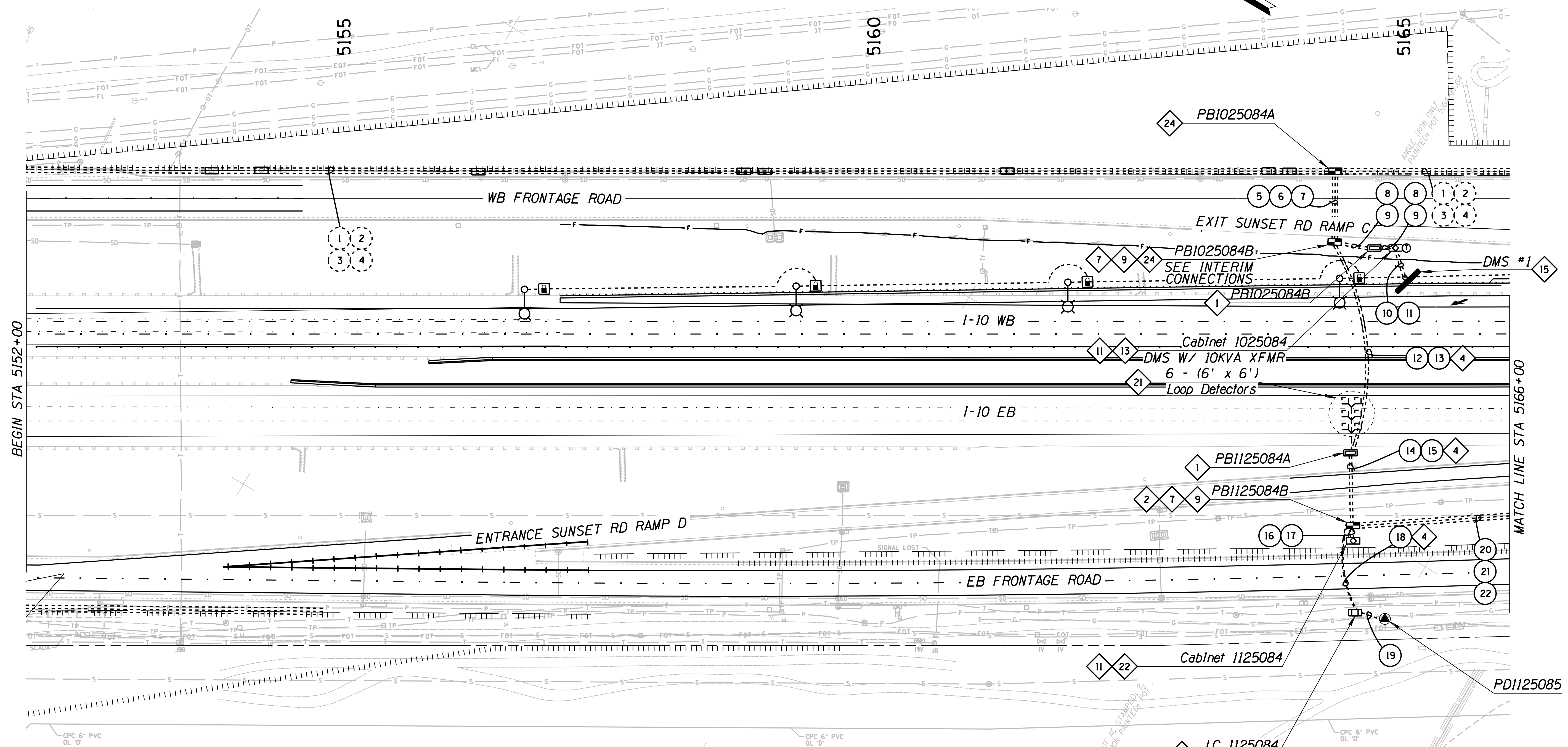
DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE FMS INTERIM CONNECTION STA 5240+00	
ROUTE	I-10	LOCATION	RUTHRAUFF TI	DWG NO. T-13.14	
TRACS NO. H8480 OIC			010-D(213)S		
			OF		

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



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	576	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 11 INSTALL NEW COMMUNICATION EQUIPMENT WITHIN CABINET.
- 12 INSTALL NEW TYPE IV LOAD CENTER (120/240v) CABINET AND FOUNDATION. SEE LOAD CENTER TABLES.
- 13 INSTALL DMS CABINET ON NEW FOUNDATION.
- 15 INSTALL NEW DMS, DMS STRUCTURE, AND FOUNDATIONS.
- 21 INSTALL NEW 6'X6' PREFORMED LOOP DETECTOR CENTERED IN LANE PER ITS STD. DWG. FM-5.03.
- 22 INSTALL DETECTION CABINET ON NEW FOUNDATION.

24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT ENOUGH CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE FMS PLAN STA 5152+00 TO STA 5166+00	
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC				010-D(213)S	
				OF	

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

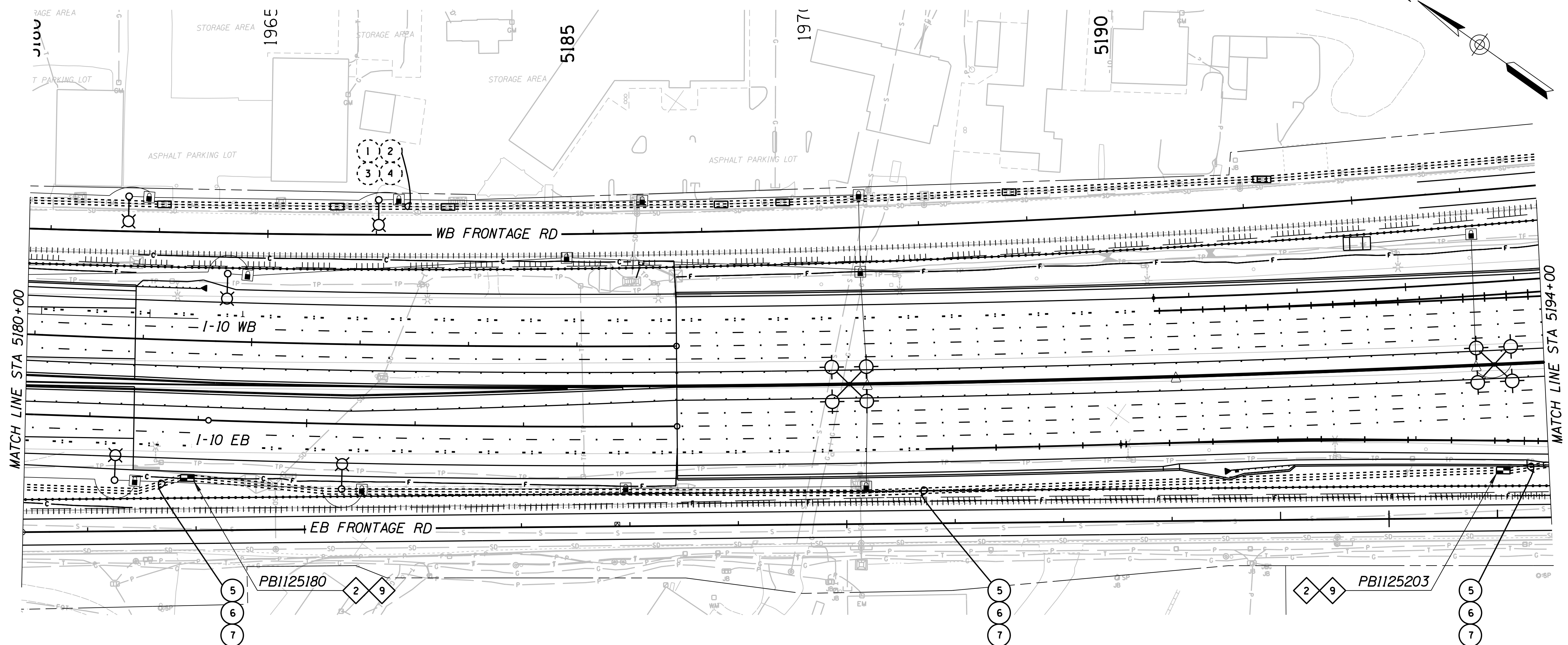
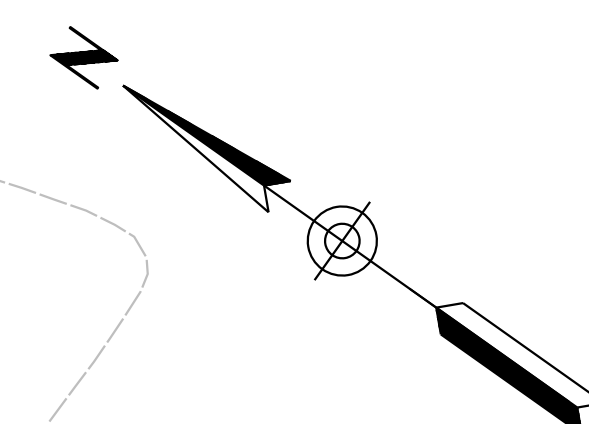






F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	580	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE FMS PLAN STA 5180+00 TO STA 5194+00	
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S		OF	

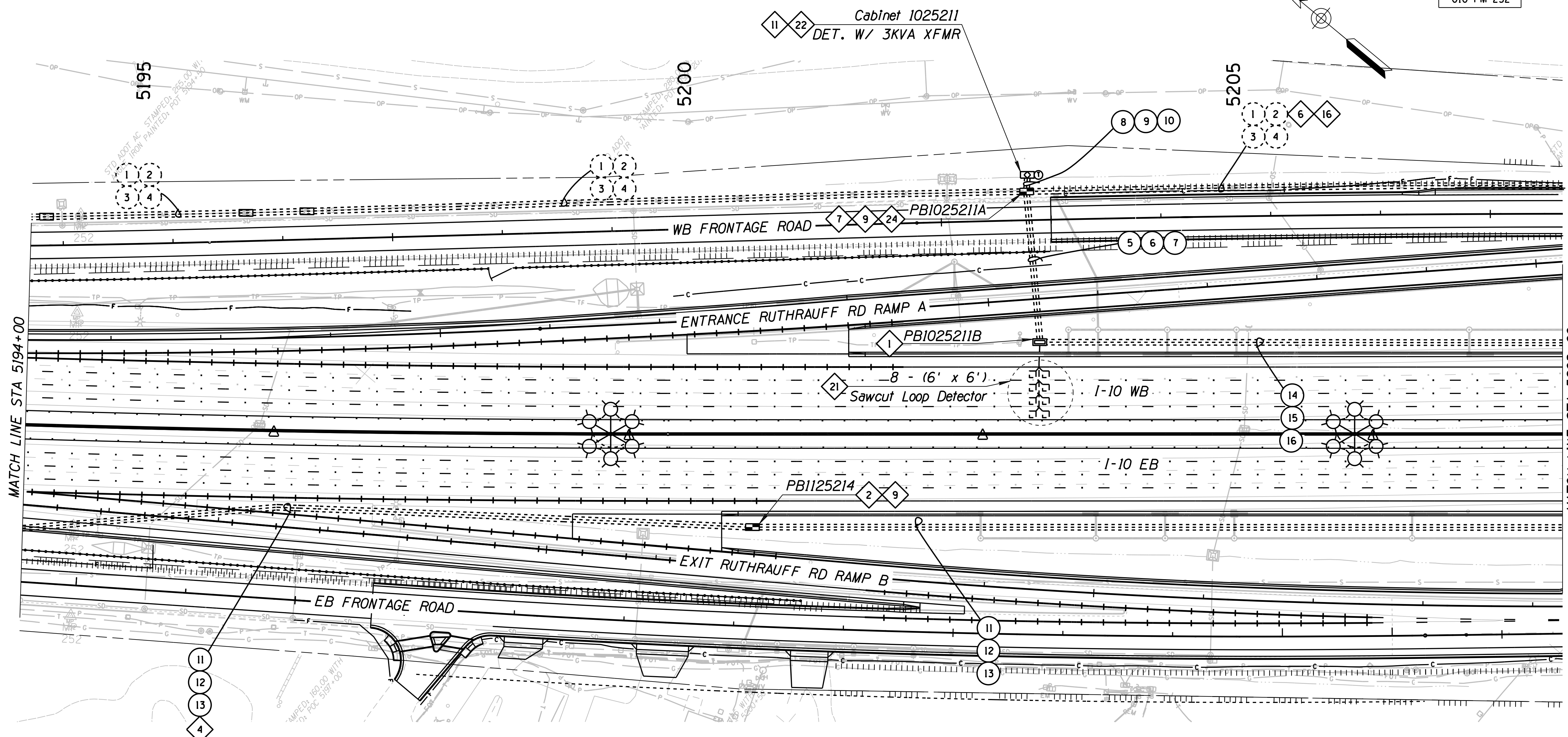
SURVEY NO. LOCATION DATE FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS LOCATION DATE SURVEY NO. FINISHED PLANS REVISIONS





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	582	849	

010 PM 252



**CONSTRUCTION NOTES:**

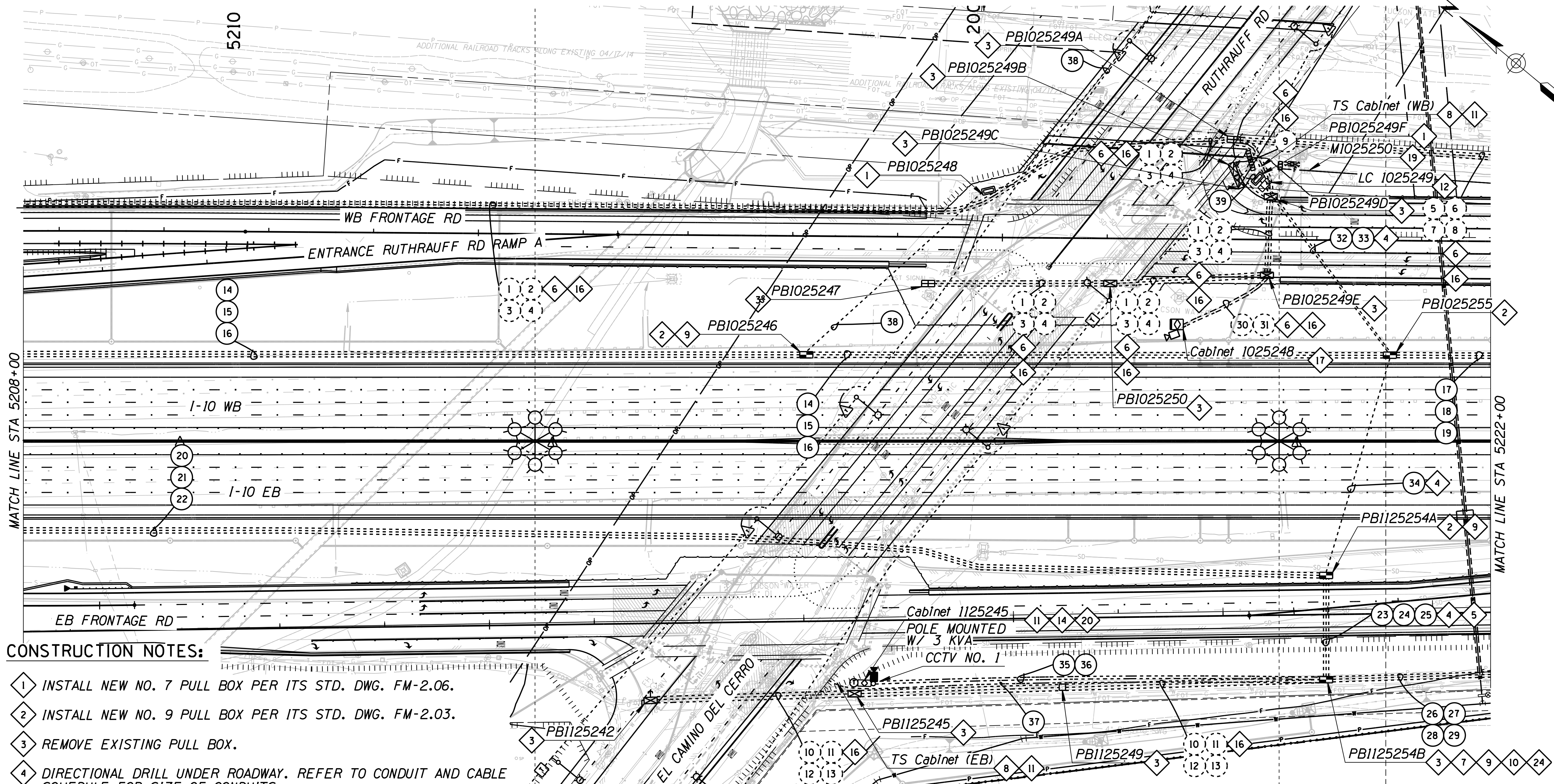
- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 6 REMOVE EXISTING CABLE FROM CONDUIT
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 10 COIL 50 FEET OF EACH SMFO (12) CABLE IN PULL BOX.
- 11 INSTALL NEW COMMUNICATION EQUIPMENT WITHIN CABINET.
- 16 ABANDON EXISTING CONDUIT IN PLACE.
- 18 EXISTING PULL BOX TO REMAIN.
- 21 INSTALL NEW 6'X6' PREFORMED LOOP DETECTOR CENTERED IN LANE PER ITS STD. DWG. FM-5.03.
- 22 INSTALL DETECTION CABINET ON NEW FOUNDATION.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT ENOUGH CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE FMS PLAN STA 5194+00 TO STA 5208+00	
ROUTE	LOCATION		RUTHRAUFF TI		
TRACS NO. H8480 OIC				010-D(213)S	
				DWG NO. T-13.22	
				OF	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	584	849	

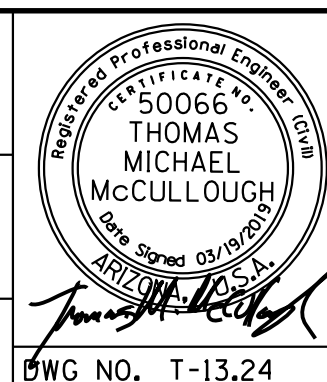
010 PM 252



**CONSTRUCTION NOTES:**

- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 3 REMOVE EXISTING PULL BOX.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 5 ROUTE CONDUIT INTO EXISTING PULL BOX.
- 6 REMOVE EXISTING CABLE FROM CONDUIT
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 8 INSTALL SMFO (12) INTO TRAFFIC SIGNAL CABINET.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 10 COIL 50 FEET OF EACH SMFO (12) CABLE IN PULL BOX.
- 11 INSTALL NEW COMMUNICATION EQUIPMENT WITHIN CABINET.
- 12 INSTALL NEW TYPE IV LOAD CENTER (120/240v) CABINET AND FOUNDATION. SEE LOAD CENTER TABLES.
- 14 INSTALL NEW CCTV CAMERA, CABINET, AND POLE WITH LOWERING DEVICE ON FOUNDATION.
- 16 ABANDON EXISTING CONDUIT IN PLACE.
- 17 REMOVE EXISTING CCTV CAMERA, COMPOSITE CABLE, WIRELESS EQUIPMENT, POLE, AND FOUNDATION.
- 19 REMOVE EXISTING METER PEDESTAL AND FOUNDATION.
- 20 INSTALL NEW WIRELESS ANTENNA AND RADIO ON POLE. RE-ESTABLISH COMMUNICATIONS CONNECTION TO ADJACENT TRAFFIC SIGNALS.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT ENOUGH CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
DESIGN	T. MCCULLOUGH	3-19	
DRAWN	E. KOCHER	3-19	
CHECKED	J. KISSINGER	3-19	I-10 MAINLINE FMS PLAN STA 5208+00 TO STA 5222+00
ROUTE	LOCATION	RUTHRAUFF TI	
TRACS NO. H8480 OIC		010-D(213)S	
			OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	585	849	

010 PM 252


**CONDUIT & CABLE SCHEDULE  
STA 5208+00 TO STA 5222+00**

COND. NO.	SIZE	FROM	TO	CONTENTS	COND. NO.	SIZE	FROM	TO	CONTENTS
1	3"	ML	PB1025249A	SPARE	26	3"	PB1125254B	ML	2*10 AWG, 1*10 GB
2	3"	ML	PB1025249A	SPARE	27	3"	PB1125254B	ML	SPARE
3	3"	ML	PB1025249A	SPARE	28	3"	PB1125254B	ML	SPARE
4	3"	ML	PB1025249A	SMFO (48)	29	3"	PB1125254B	ML	SMFO (96)
5	3"	PB1025249A	ML	SPARE	30	3"	PB1025249E	C 1025248	2 *4 AWG, 1 *8 GB - REMOVE
6	3"	PB1025249A	ML	SPARE	31	3"	PB1025249E	C 1025248	SMFO (6)
7	3"	PB1025249A	ML	SPARE	32	3"	PB1125255	LC 1025259	2*8 AWG, 2*10 AWG, 2*12 AWG, 1*8 GB
8	3"	PB1025249A	ML	SMFO (48)	33	3"	PB1025255	PB1025249F	SMFO (12)
9	3"	PB1025249A	PB1025249D	2 *4 AWG, 1 *8 GB	34	3"	PB1125254A	PB1025255	2*10 AWG, 2*12 AWG, 1*10 GB
10	3"	PB1125242	PB1125254B	SPARE	35	3"	PB1125254B	C 1125245	SMFO (12)
11	3"	PB1125242	PB1125254B	SPARE	36	3"	PB1125254B	C 1125245	2*12 AWG, 1*12 GB
12	3"	PB1125242	PB1125254B	SPARE	37	3"	PB1125254B	TS CABINET	SMFO (12)
13	3"	PB1125242	PB1125254B	SPARE	38	3"	PB1025246	ML	SMFO (12)-TO MARYVALE TS CABINET (SEE TS PLANS)
14	3"	ML	PB1025255	SMFO (96)	39	3"	PB1025249F	TS CABINET	SMFO (12)
15	3"	ML	PB1025255	SPARE					
16	3"	ML	PB1025255	2*8 AWG, 1*8 GB					
17	3"	PB1025255	ML	SMFO (96)					
18	3"	PB1025255	ML	SPARE					
19	3"	PB1025255	ML	SPARE					
20	3"	ML	PB1125254A	SPARE					
21	3"	ML	PB1125254A	SPARE					
22	3"	ML	PB1125254A	SMFO (96)					
23	3"	PB1125254A	PB1125254B	2*10 AWG, 2*12 AWG, 1*10 GB					
24	3"	PB1125254A	PB1125254B	SPARE					
25	3"	PB1125254A	PB1125254B	SMFO (96)					

**CABINET CONTENTS**

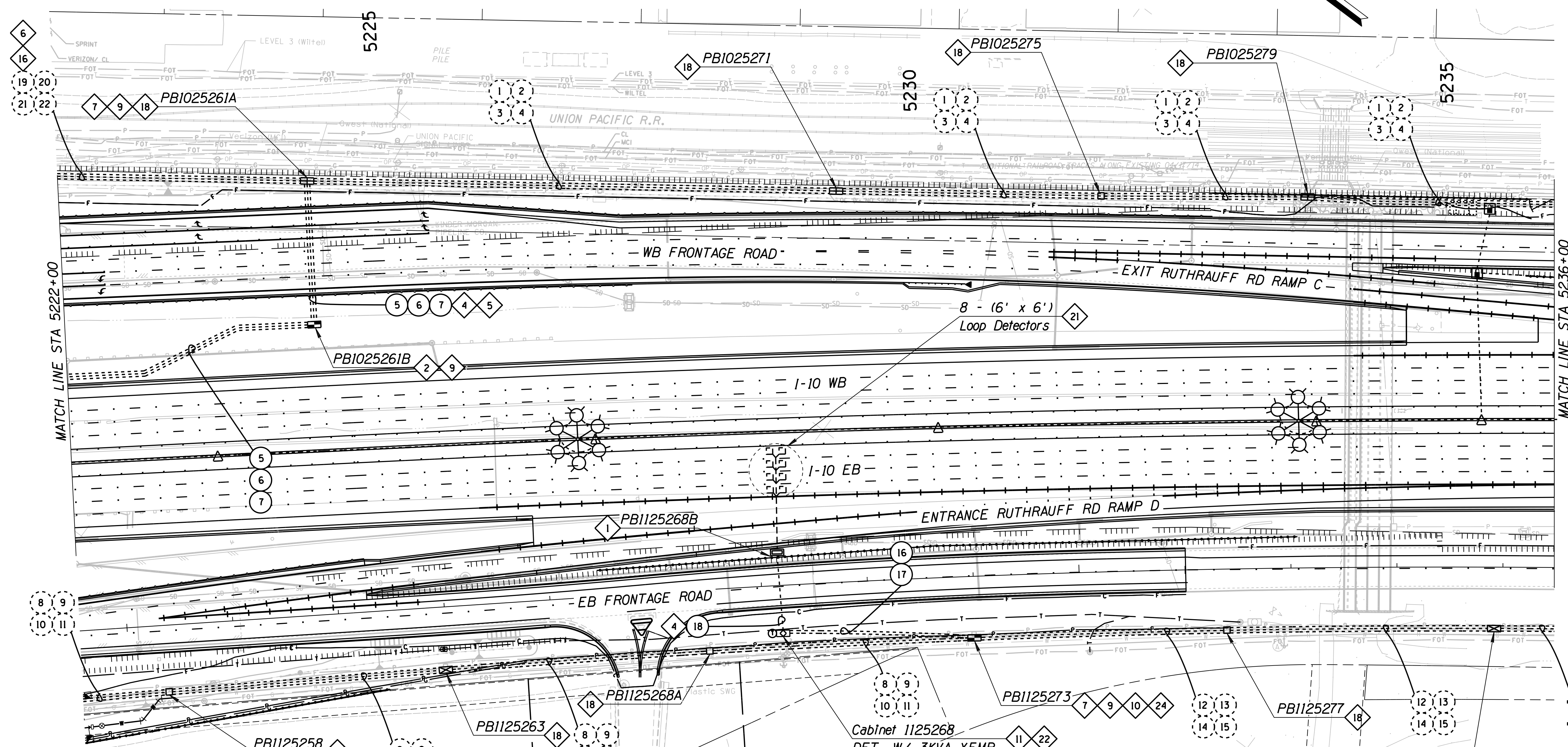
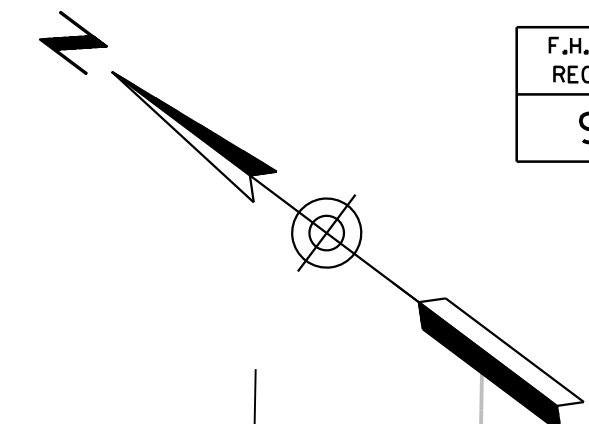
<b>CABINET 1125245</b>	
ETHERNET SWITCH	
CCTV FIELD ASSEMBLY	
POWER SUPPLY	
NID	
<b>TS CABINET (WB)</b>	
SEE TS PLANS	
ETHERNET SWITCH	
NID	
<b>TS CABINET (EB)</b>	
SEE TS PLANS	
ETHERNET SWITCH	
POWER SUPPLY FOR CCTV CAMERA	
NID	

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

DESIGN	T. MCCULLOUGH	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	3-19		
CHECKED	J. KISSINGER	3-19		
<b>Kimley»Horn</b>		I-10 MAINLINE CONDUIT AND CABLE SCHEDULE STA 5208+00 TO STA 5222+00		
ROUTE	1-10	LOCATION	RUTHRAUFF T1	
TRACS NO. H8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	586	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 1 INSTALL NEW NO. 7 PULL BOX PER ITS STD. DWG. FM-2.06.
- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 5 ROUTE CONDUIT INTO EXISTING PULL BOX.
- 6 REMOVE EXISTING CABLE FROM CONDUIT
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 10 COIL 50 FEET OF EACH SMFO (12) CABLE IN PULL BOX.
- 11 INSTALL NEW COMMUNICATION EQUIPMENT WITHIN CABINET.
- 16 ABANDON EXISTING CONDUIT IN PLACE.
- 18 EXISTING PULL BOX TO REMAIN.
- 21 INSTALL NEW 6' X 6' PREFORMED LOOP DETECTOR CENTERED IN LANE PER ITS STD. DWG. FM-5.03.
- 22 INSTALL DETECTION CABINET ON NEW FOUNDATION.
- 24 INSTALL NEW "SPLIT" NO. 9 PULL BOX AROUND EXISTING CONDUITS. CONTRACTOR SHALL CUT CONDUIT IF NECESSARY TO FACILITATE COILING EXISTING FIBER OPTIC CABLING. ALL EXISTING CONDUIT AND CABLING SHALL BE PROTECTED IN PLACE.

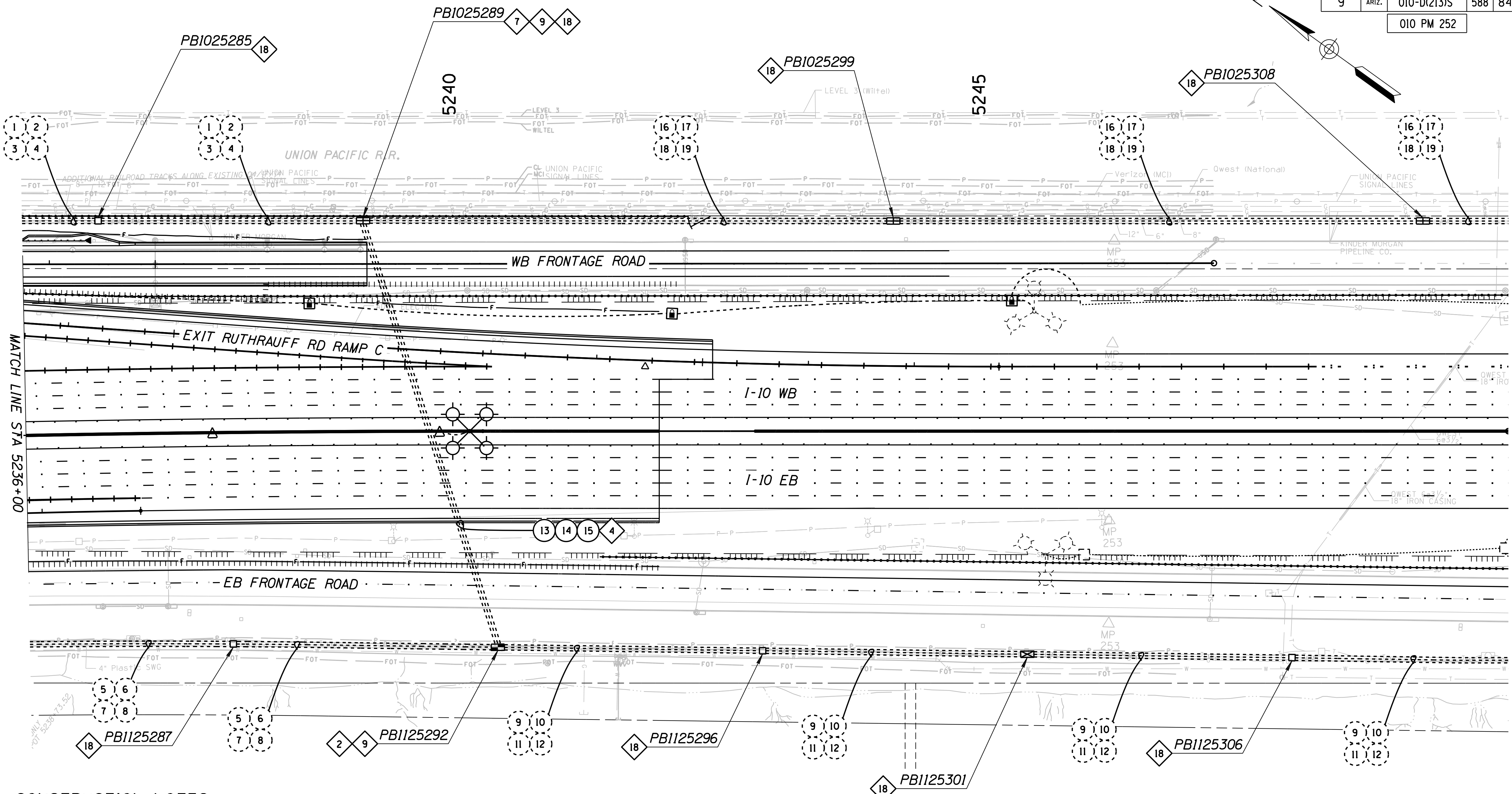
DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE FMS PLAN STA 5222+00 TO STA 5236+00	
ROUTE	I-10	LOCATION	RUTHRAUFF TI	DWG NO. T-13.26	
TRACS NO. H8480 OIC			010-D(213)S OF		

SURVEY NO. DATE FINISHED PLANS REVISIONS LOCATION DATE



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	588	849	

010 PM 252



**CONSTRUCTION NOTES:**

- 2 INSTALL NEW NO. 9 PULL BOX PER ITS STD. DWG. FM-2.03.
- 4 DIRECTIONAL DRILL UNDER ROADWAY. REFER TO CONDUIT AND CABLE SCHEDULE FOR SIZE OF CONDUITS.
- 7 INSTALL SPLICE CLOSURE IN NO. 9 PULL BOX AND FUSION SPLICE FIBERS PER SPLICE DETAILS.
- 9 COIL 100 FEET OF EACH SMFO (96) CABLE IN PULL BOX.
- 18 EXISTING PULL BOX TO REMAIN.

DESIGN	T. MCCULLOUGH	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	3-19		
CHECKED	J. KISSINGER	3-19		
<b>Kimley»Horn</b>		I-10 MAINLINE FMS PLAN STA 5236+00 TO STA 5250+00		
ROUTE	LOCATION	RUTHRAUFF TI		
TRACS NO. H8480 OIC		010-D(213)S		DWG NO. T-13.28

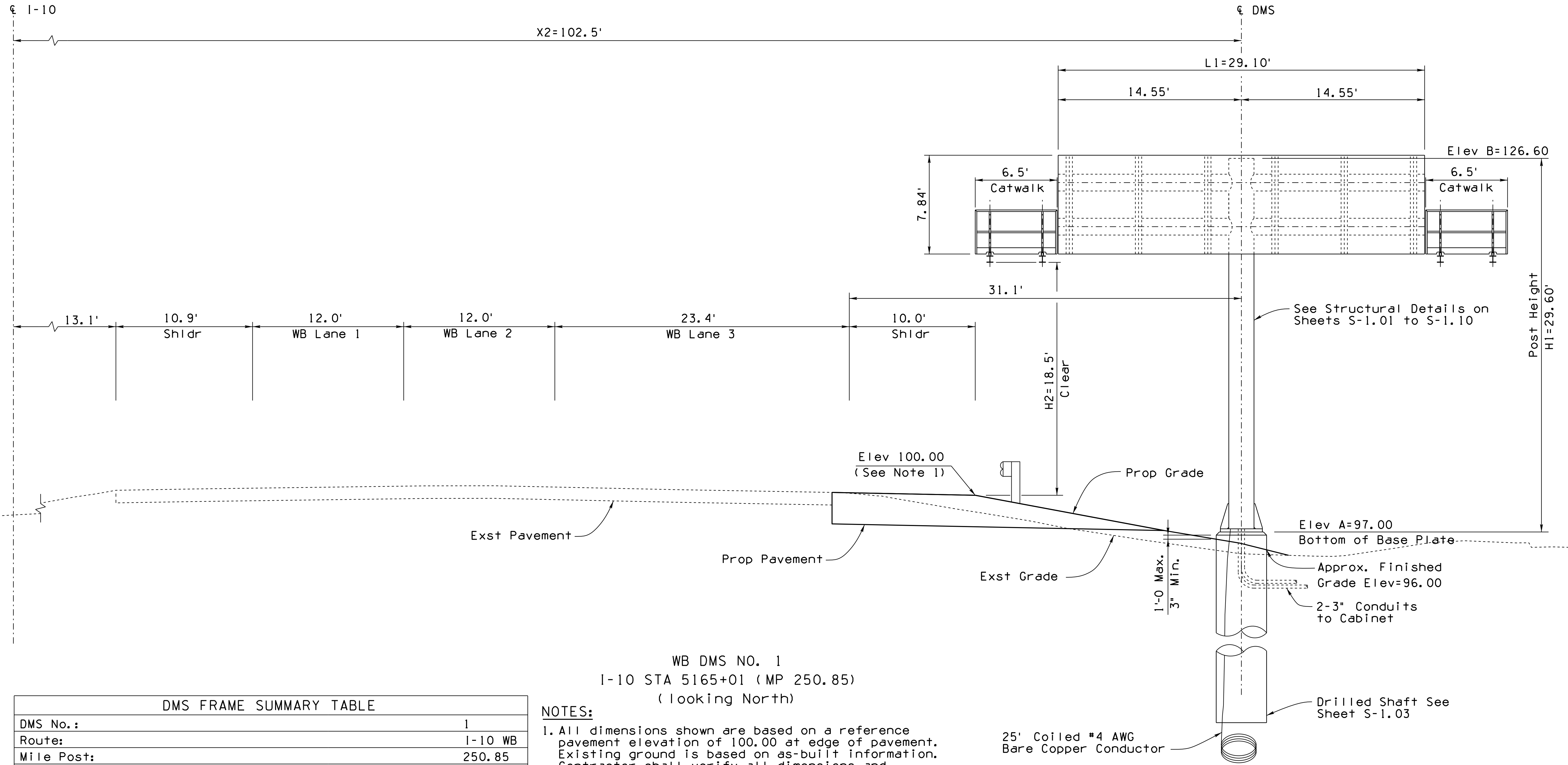
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	590	849	

010 PM 252



DMS FRAME SUMMARY TABLE	
DMS No.:	1
Route:	I-10 WB
Mile Post:	250.85
Station:	5165+01
Frame Span, L1:	29.10'
Post Height, H1:	29.60'
Vertical Clearance, H2:	18.50'
Bottom of Base Plate, Elev A:	97.00
Post Offset, X1:	N/A
DMS Offset, X2:	102.5'
Orientation Angle (See General and Construction Notes)	17°

**NOTES:**  
 1. All dimensions shown are based on a reference pavement elevation of 100.00 at edge of pavement. Existing ground is based on as-built information. Contractor shall verify all dimensions and elevations shown with field survey at the sign structure location prior to submitting shop drawings or pouring the foundations. The contractor shall submit the field survey information as part of the shop drawings and prior to fabricating the sign structure.

DESIGN	T. MCCULLOUGH	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	E. KOCHER	DATE	3-19		
CHECKED	J. KISSINGER	DATE	3-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		I-10 MAINLINE WB DMS NO. 1 ELEVATION	
ROUTE	I-10	LOCATION	RUTHRAUFF TI	DWG NO. T-13.30	
TRACS NO. H8480 OIC			010-D(213)S		

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	591	849	

010 PM 252

### GENERAL LIGHTING NOTES:

- All materials and installation shall conform to the 2008 ADOT Standard Specifications and the most recent ADOT Traffic Signal and Lighting Standard Drawings.
- For installation procedures, see ADOT's Traffic Signal and Lighting Standard Drawings and the 2008 ADOT Standard Specifications.
- The location of utilities shown on the plans are approximate. All involved utilities may not be shown on the plans. The contractor shall be responsible per sections 107.15 & 730-6 of the Standard Specifications, for contacting all utilities for the exact location prior to any construction activity.
- The contractor shall be responsible for maintaining proper offsets from all overhead and underground utilities. The contractor shall contact each utility for specific requirements.
- For electrical service requirements, contact Tom Hoyt of Tucson Electric Power at 520-918-8388 a minimum of 10 days before any service work is required, per section 107 of the Special Provisions.
- The contractor shall verify the actual location of the electrical service pole with the utility company prior to trenching and installing the service pull box (maximum 2 feet from service point). The contractor shall provide a minimum of 5 feet of slack for each conductor in the service pull box. The utility company shall make this connection and the contractor coordinate the work.
- Exact locations of load center cabinets and transformers shall be determined by the Engineer in the field.
- All luminaires on poles shall be individually fused, per ADOT Standard Drawing TS 1-4.
- All horizontal mount luminaires shall be marked with their luminaire type ("25L" for 250 watt HPS equivalent, 22,500 lumens). These markings shall be visible from the ground.
- Once installed, all luminaires shall pass a 100 hour continuously energized test before final acceptance. The contractor will be responsible for correcting any problems.
- All lighting units shall be installed with the mast arm perpendicular to the lane or ramp on which they are located.
- The contractor shall provide an electrical expansion coupling of the size and type required at bridge expansion joints.
- All offsets are from the face of curb or edge of pavement to centerline of pole, unless otherwise noted. See ADOT Standard Drawing TS 4-32.
- Conduit and pullboxes are shown diagrammatically. Exact locations to be determined in the field. Conduit alignments should be reviewed with the electrical inspector prior to layout by the survey crew. Spacing of pullboxes shall be 350 feet or less. See structural plans for more information on locating conduit in bridges.
- All pull boxes shall be left in a clean condition, free of dirt and debris, upon completion of the work.
- All conduit stubs shall be 3 inch diameter by 2 feet long minimum and marked with a rebar stake.
- Remove and dispose of existing conductors not being used, per section 737-3.03 of the Standard Specifications, or as directed by the Engineer.

### RESPONSIBILITIES:

- The contractor shall obtain all permits required by all governmental agencies.
- The contractor shall contact the blue stake at 1-800-782-5348, a minimum of 2 working days prior to any Excavation.
- The location of the utilities shown on the plans is approximate. The contractor is responsible for verifying/potholing underground utilities in the vicinity of the proposed pole foundations. The contractor is also responsible for verifying the overhead clearance to all above ground utilities and ensuring they have all necessary certifications to work around overhead power lines to complete the pole installations.
- Any equipment and/or utilities within the project limits that are damaged or destroyed by the contractor shall be repaired or replaced at the sole expense of the contractor.
- The contractor shall supply and install all equipment and materials specified on the approved plans and in the project specifications.
- Unless specifically identified for removal as part of this project, it is the contractor's responsibility to repair/restore any landscaping, irrigation, or hardscape that may have been damaged or disturbed by the construction activities.

### PIMA COUNTY/CITY OF TUCSON STREET LIGHTING GENERAL NOTES:

- All equipment/materials and construction within Pima County / City of Tucson right of way shall meet or exceed the requirements contained in the current Specifications and the Standard Details for Public Improvements, the Special Provisions and the approved plans.
- A three quarter (3/4) inch by ten (10) foot ground rod shall be installed in the lighting pull box adjacent to each street light pole. Two (2) ground rod clamps shall be furnished and installed for each ground rod for clamping the ground wire.
- Three #12 AWG-XHHW conductors and one #12 AWG-XHHW ground shall be installed from each luminaire to the concrete pull box adjacent to the pole foundation, leaving three (3) feet of slack for each conductor (measured from the top of the pullbox) in the pull box. Route four #12 AWG-XHHW conductors and one #12 AWG-XHHW ground to the luminaire with the photoelectric cell. An in-line fuse shall be installed for each luminaire in the associated pull box.
- The street lighting photoelectric cell shall be mounted on the luminaire pole closest to the street lighting controller or, if a controller is not required, the luminaire pole closest to the meter pedestal.
- A minimum of ten foot radial clearance shall be maintained between all metallic parts and overhead electric conductors while installing poles and luminaires. Blue Stake shall be contacted if the Contractor requires overhead protection.

### LEGEND

	A = Pole / Luminaire Number B = Load Center C = Circuit Number		High Mast Lighting 3 Fixtures
	D = Conduit and Conductor Identification/Run Number		High Mast Lighting 120' Pole 4 Fixtures
	Load Center (See ADOT Std Dwgs T.S. 2-2, 3-0, 3-2, 3-3 and T.S. 3-4)		High Mast Lighting 150' Pole 6 Fixtures
	Pima County/City Of Tucson Meter Pedestal		Underdeck Luminaire
	*4B Pullbox (See ADOT Std Dwg T.S. 1-12)		Flood Light (Architectural Lighting)
	COT/PCDOT Pull Box No. 5		Pole With Luminaire
	*6B Pullbox (See ADOT Std Dwg T.S. 1-12)		Local Road Pole With LED Luminaire on Mast Arm
	COT/PCDOT Pull Box No. 7		Conduit Run
	Top Of Barrier Mounted Junction Box (See ADOT Std Dwg T.S. 1-10)		Transformer (And Cabinet)
	Face Or Back Of Barrier Junction Box (See ADOT Std Dwg T.S. 1-8 Or 1-9)		

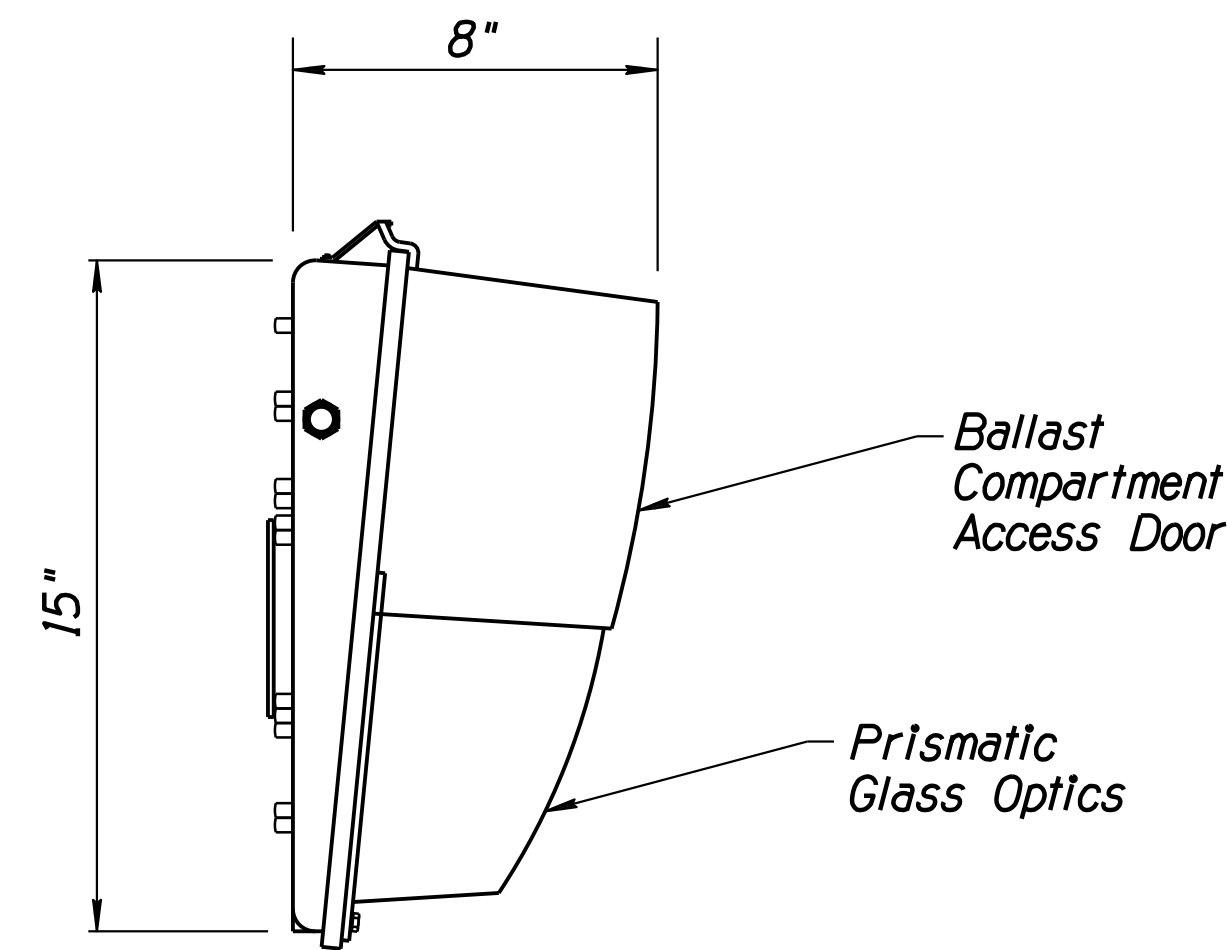
### STREET LIGHTING ABBREVIATIONS:

ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	J-BOX	JUNCTION BOX
CONST	CONSTRUCTION	LED	LIGHT EMITTING DIODE
DWG	DRAWING	NEC	NATIONAL ELECTRICAL CODE
HM	HIGH MAST	NO.	NUMBER
HPS	HIGH PRESSURE SODIUM	VO	VERTICAL OFFSET
PCDOT	PIMA COUNTY DEPARTMENT OF TRANSPORTATION	TEP	TUCSON ELECTRIC POWER

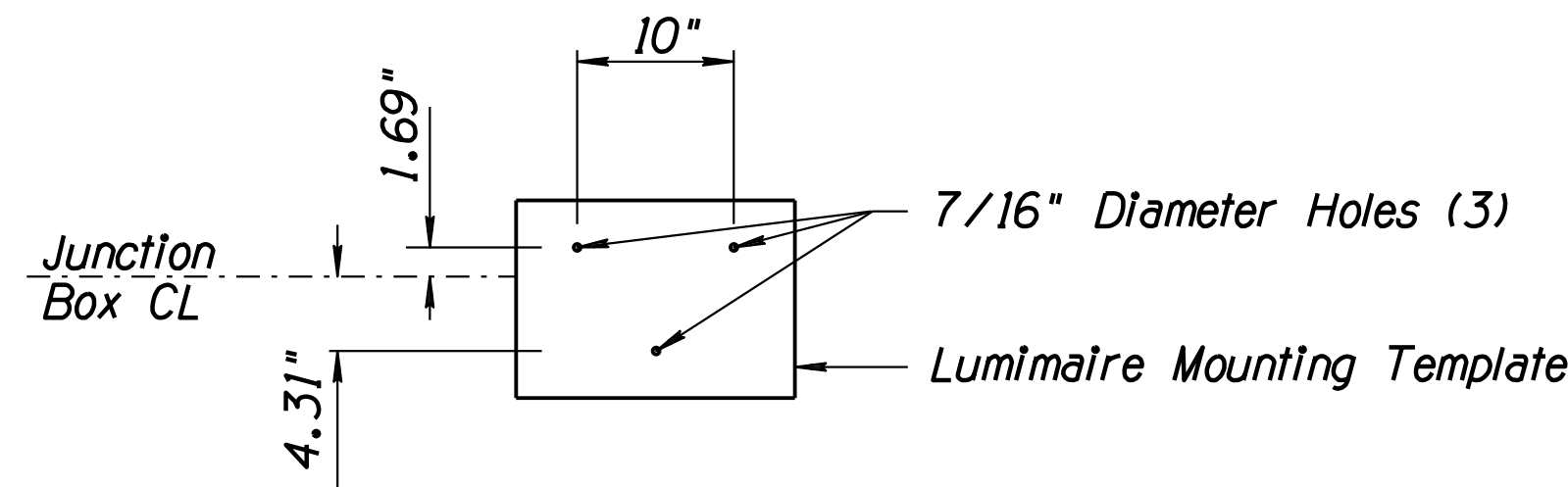
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
<b>WSP</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		LIGHTING NOTES AND SCHEDULES	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C		010-D(213)S	DWG NO.	T-14.01
					OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	592	849	

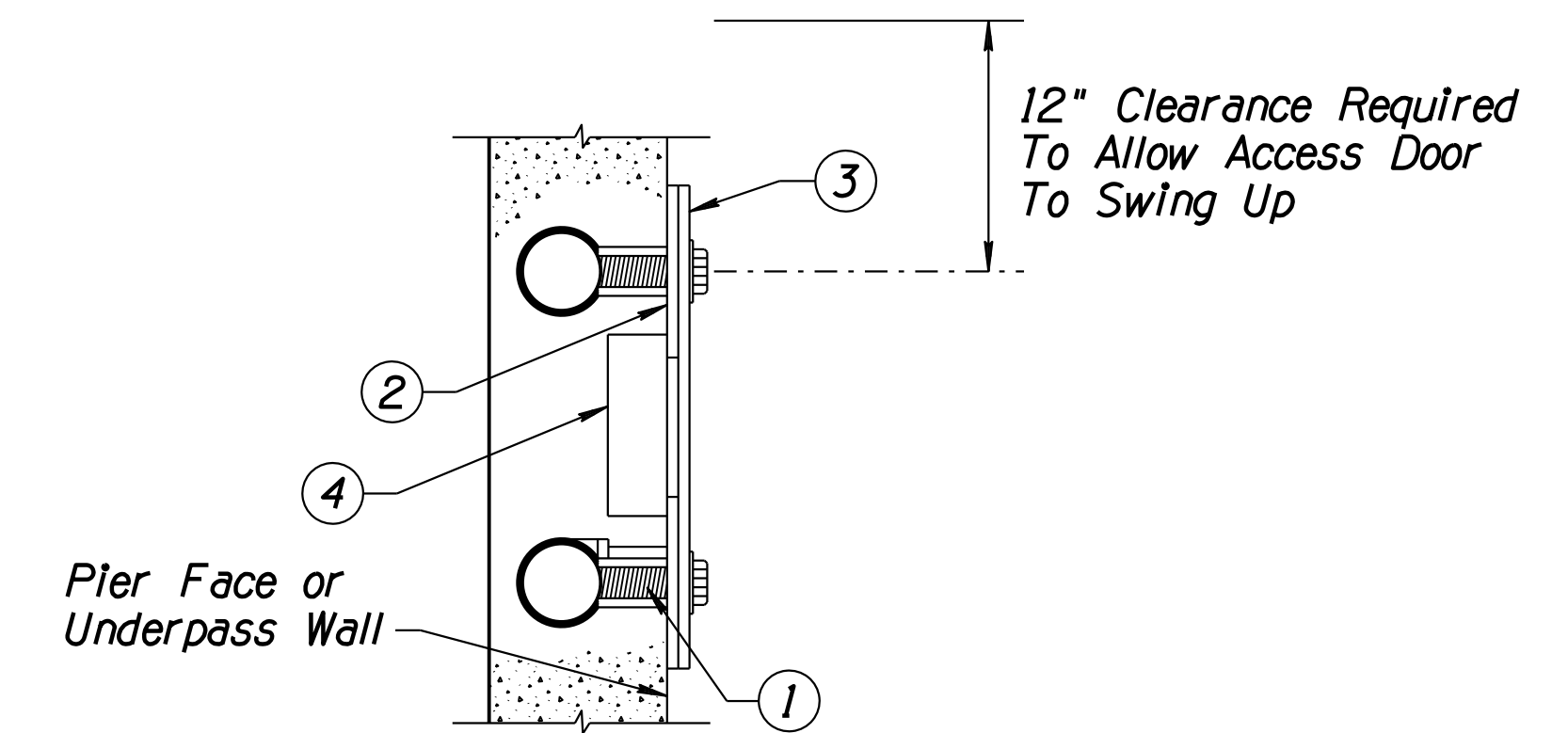
010 PM 252



UNDERDECK LUMINAIRE  
SIDE VIEW

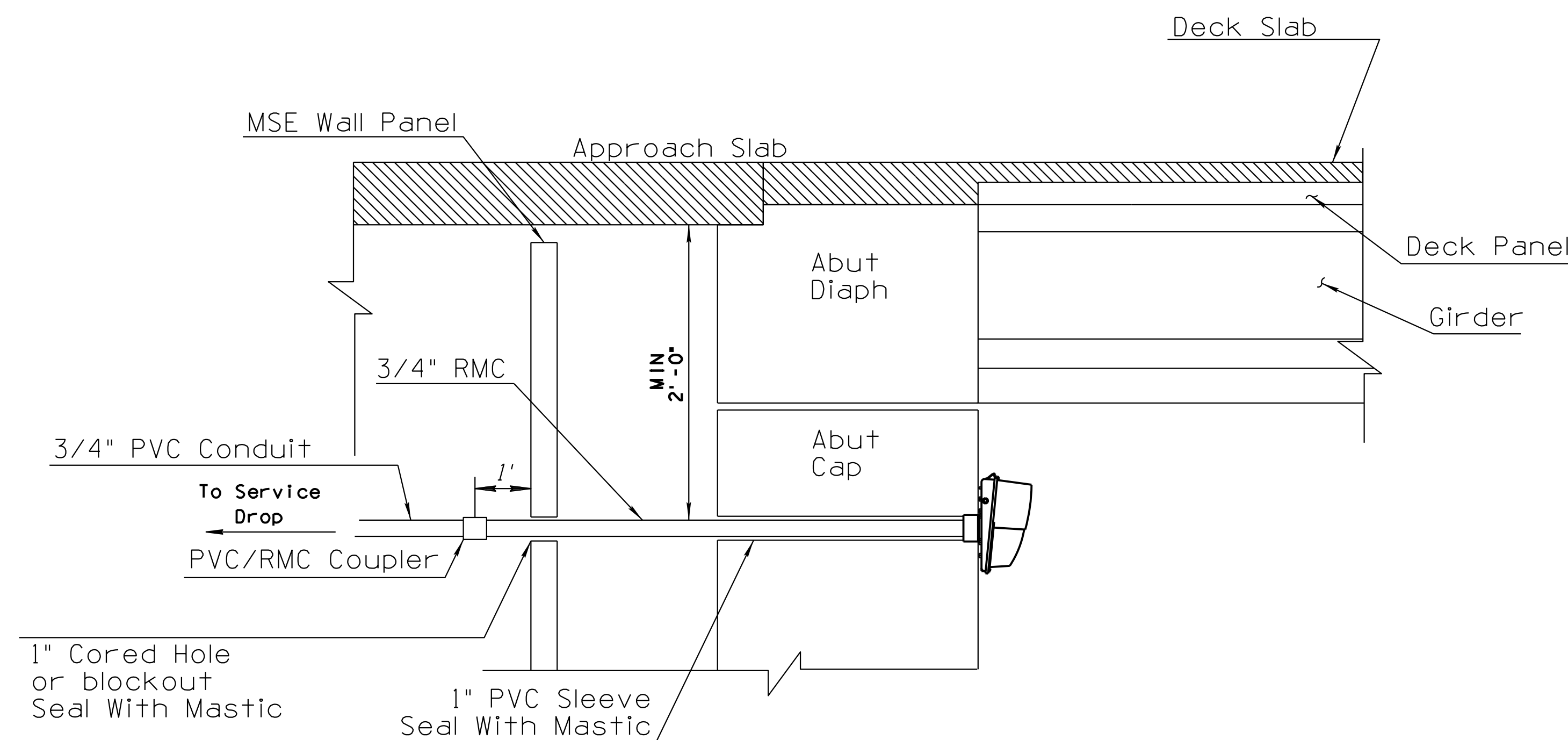


FRONT VIEW  
UNDERDECK LUMINAIRE WALL MOUNTING TEMPLATE



WALL MOUNTED ASSEMBLY DETAIL

ITEM NO.	QUANTITY	MATERIAL LIST PER INSTALLATION DESCRIPTION
①	3	1/2" Dia Galvanized Ferrule Insert With 3/8" Bolt
②	1	Adhesive Backed Water-Tight Gasket (1" Wide Min)
③	1	Mounting Template
④	1	4" x 4" x 2.2" Recessed Junction Box



ABUT EXPANSION JOINT DETAIL  
MSE WALL BEHIND ABUTMENT

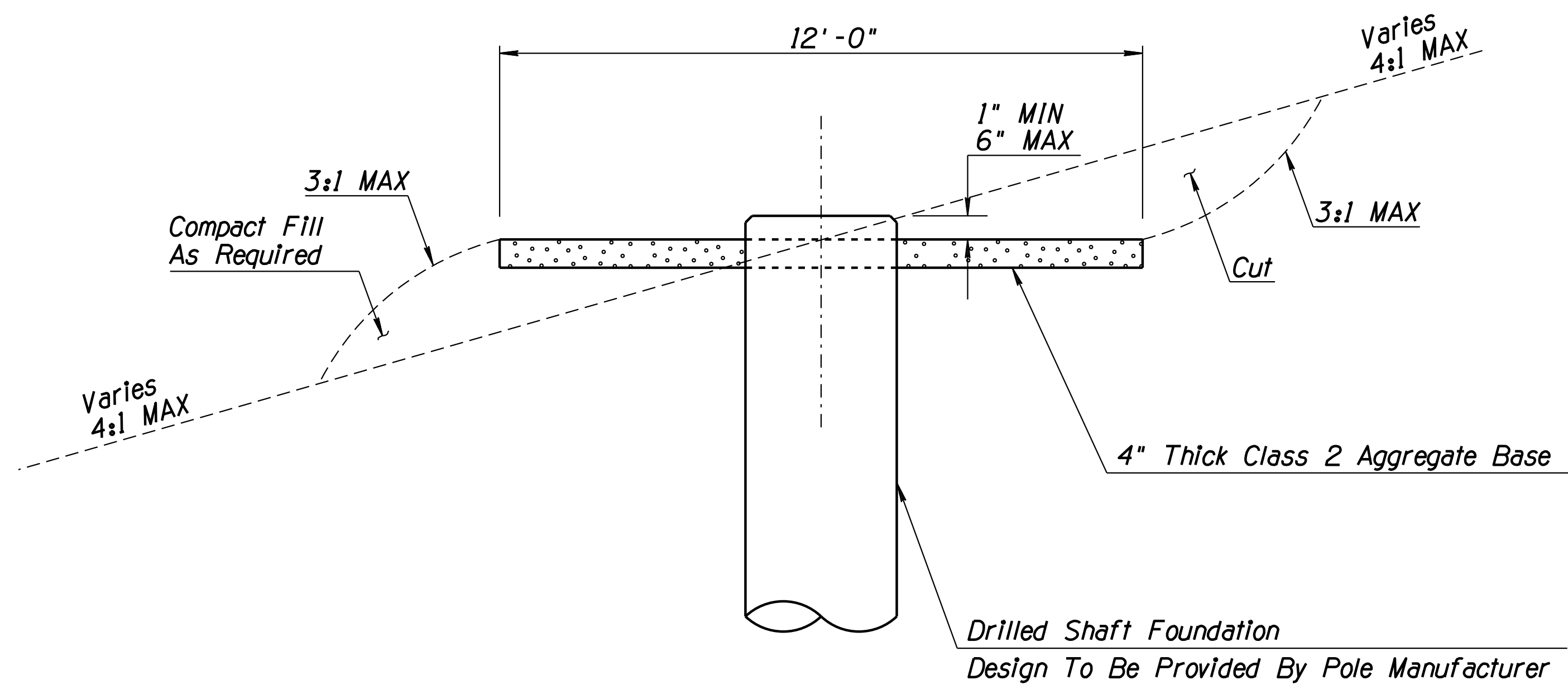
UNDERDECK LUMINAIRE MOUNTING NOTES:

1. The luminaire must be secured to the structure with galvanized, concrete embedded anchor bolts.
2. All luminaire mounting holes and dimensions must be verified with the luminaire manufacturer prior to template fabrication.
3. All fixtures are to be located as shown on the underdeck lighting plans. Shop drawings are required to show mounting location on pier cap and clearance from reinforcing steel.
4. Adjust bolt pattern and dimensions as necessary to fit selected luminaire.
5. No drilling in structures shall be allowed.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		LIGHTING DETAILS UNDERDECK LIGHTING MOUNT	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	DWG NO.	T-14.02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	593	849	

010 PM 252



- Notes:**
1. All Construction Shall Conform To ADOT Standard Specifications 2008 Edition.

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

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		HIGH MAST LIGHT POLE MAINTENANCE PAD	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S		
					DWG NO. T-14.03
					OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	595	849	

010 PM 252

### POLE SCHEDULE

POLE NUMBER	LOAD CENTER	CIRCUIT NUMBER	CONSTRUCTION &	STATION	OFFSET		POLE TYPE	POLE HT.	LUMENS	LUM. TYPE	NO. LUMINAIRES	MOUNTING	MAST ARM	NOTES
					LEFT	RIGHT								
1	A	1	I-10 Median	5156+70.3	78.2		H	40'	22,000	25L-CB	1	STD	20'	
2	A	2	I-10 Median	5159+26.7	81.2		H	40'	22,000	25L-CB	1	STD	20'	
3	A	1	I-10 Median	5161+83.1	84.8		H	40'	22,000	25L-CB	1	STD	20'	
4	A	2	I-10 Median	5164+39.6	88.5		H	40'	22,000	25L-CB	1	STD	20'	
5	A	1	I-10 Median	5166+96.7	94.5		H	40'	22,000	25L-CB	1	BRK	20'	
6	A	2	Sunset Ramp C	56+48.0	17.3		H	40'	22,000	25L-CB	1	BRK	20'	
7	A	2	I-10 Median	5170+70.1		94.1	H	40'	22,000	25L-CB	1	BRK	20'	
8	A	1	Sunset Ramp C	58+91.5	23.2		H	40'	22,000	25L-CB	1	BRK	20'	
9	A	1	I-10 Median	5173+21.0		88.7	H	40'	22,000	25L-CB	1	BRK	20'	
10	A	2	Sunset Ramp C	61+39.6	29.4		H	40'	22,000	25L-CB	1	BRK	20'	
11	A	2	I-10 Median	515+76.4		87.3	H	40'	22,000	25L-CB	1	BRK	20'	
12	A	1	Sunset Ramp C	63+75.4	38.8		H	40'	22,000	25L-CB	1	BRK	20'	
13	A	1	I-10 Median	5178+33.8		86.7	H	40'	22,000	25L-CB	1	BRK	20'	
14	A	1	WB Frontage Road	1961+40.7	36.3		H	40'	22,000	25L-CB	1	BRK	20'	
15	A	2	Sunset Ramp C	66+23.6	35.5		H	40'	22,000	25L-CB	1	STD	20'	
16	A	2	I-10 Median	5180+84.5		89.1	H	40'	22,000	25L-CB	1	BRK	20'	
17	A	2	WB Frontage Road	1963+71.2	32.3		H	40'	22,000	25L-CB	1	BRK	20'	
18	A	1	Sunset Ramp C	68+70.6	41.8		H	40'	22,000	25L-CB	1	BRK	20'	
19	A	1	I-10 Median	5182+92.9		94.8	H	40'	22,000	25L-CB	1	BRK	20'	
20	A	1	WB Frontage Road	1966+02.2	32.2		H	40'	22,000	25L-CB	1	BRK	20'	
21	A	2/1	I-10 Median	5187+59.0	0.0		High Mast	120'	42,000	40L-HM	4	Median Barrier	-	
22	A	1/2	I-10 Median	5193+54.0	0.0		High Mast	120'	42,000	40L-HM	4	Median Barrier	-	
23	A	2/1	I-10 Median	5199+33.1	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
24	A	1/2	I-10 Median	5206+10.6	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
25	A	2/1	I-10 Median	5212+88.2	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
26	D	1/3/5	I-10 Median	5219+98.2	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
27	D	7/9/11	I-10 Median	5226+78.2	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
28	D	1/3/5	I-10 Median	5233+58.8	0.0		High Mast	150'	42,000	40L-HM	6	Median Barrier	-	
29	D	7/9/11	I-10 Median	5240+19.0	0.0		High Mast	120'	42,000	40L-HM	4	Median Barrier	-	
64	D	14/16/18	I-10 Median	5245+52.3	113.0		High Mast	80'			3			Existing Relocate
78	E	8/10/12					High Mast	80'			3			Existing To Remain
33	A	3	I-10 Median	5215+98.3		104.7	-	-	6,500	15L-UD	1	Wall	-	
34	A	4	I-10 Median	5215+68.2		3.3	-	-	6,500	15L-UD	1	Wall	-	
35	A	3	I-10 Median	5216+80.7		3.4	-	-	6,500	15L-UD	1	Wall	-	
36	A	3	I-10 Median	5216+05.7	3.4		-	-	6,500	15L-UD	1	Wall	-	
37	A	4	I-10 Median	5217+18.2	3.3		-	-	6,500	15L-UD	1	Wall	-	
38	A	3	I-10 Median	5216+80.8	104.7		-	-	6,500	15L-UD	1	Wall	-	
39	A	5	Ruthrauff RD	103+11.2	41.2		-	-	6,500	15L-UD	1	Wall	-	
40	A	6	Ruthrauff RD	103+46.6		9.7	-	-	6,500	15L-UD	1	Wall	-	
41	A	5	Ruthrauff RD	103+81.9		60.6	-	-	6,500	15L-UD	1	Wall	-	
42	A	6	Ruthrauff RD	104+42.0	63.4		-	-	6,500	15L-UD	1	Wall	-	
43	A	5	Ruthrauff RD	104+77.3	12.5		-	-	6,500	15L-UD	1	Wall	-	
44	A	6	Ruthrauff RD	105+12.7		38.4	-	-	6,500	15L-UD	1	Wall	-	

BRK - Breakaway Pole Base      CB - Cobrahead      HM - High Mast      STD - Standard Base      UD - Underdeck

### CONDUCTOR SCHEDULE

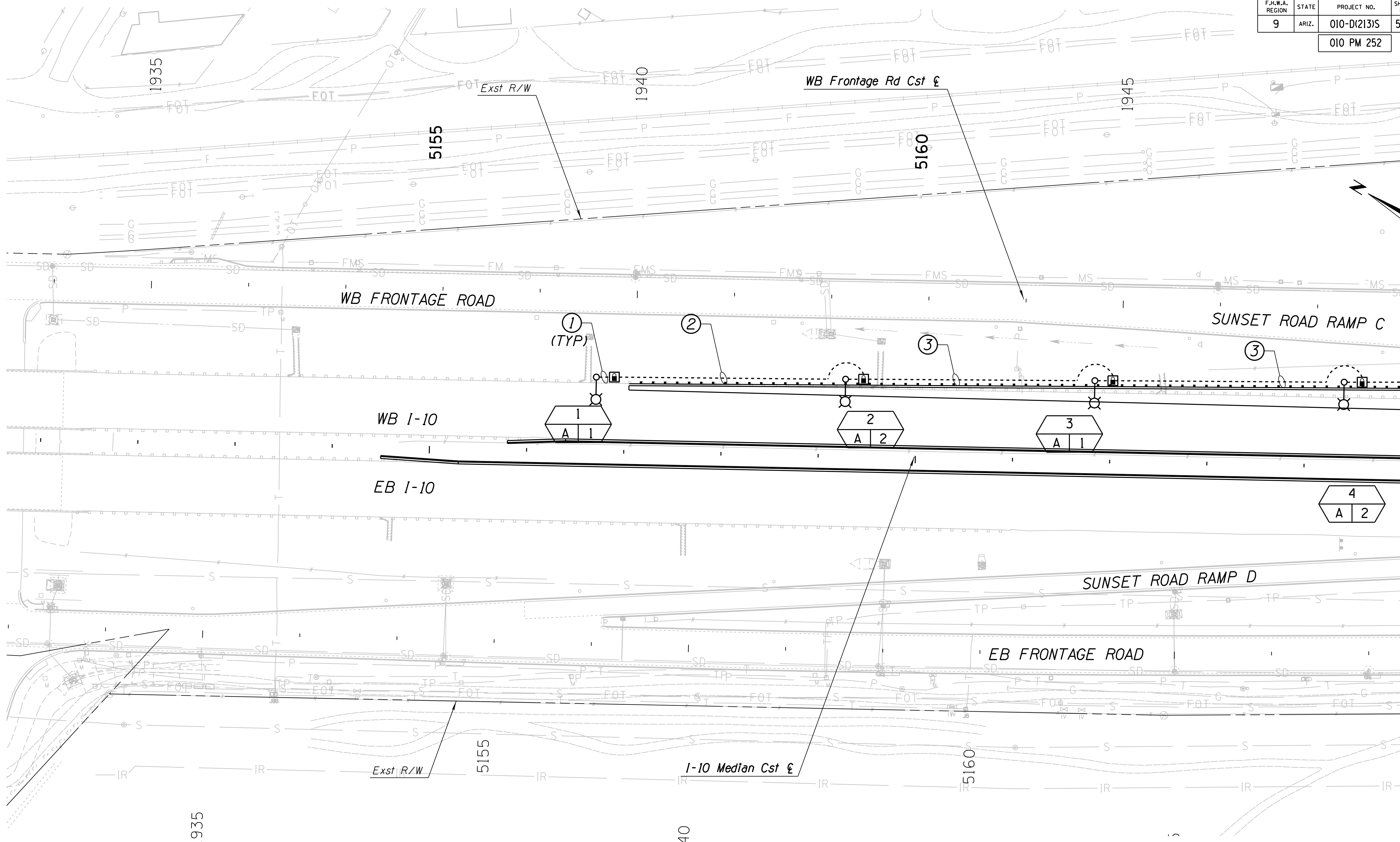
CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CONDUIT SIZE IN INCHES	1	2	2	2	1	2	2	2	2	2	2	2	2	3/4	2	2	3	3	3	1	2
AWG																					
*12 TYP LIGHTING CIRCUIT POLE TO PULLBOX	2				4									2						6	
CIRCUIT 3								2	2	2	2	2									
CIRCUIT 4								2	2	2											
CIRCUIT 5								2	2	2		2	2								
CIRCUIT 6								2	2	2		2	2								
CIRCUIT 7								2	2	2	2	2				2	2				2
CIRCUIT 9																2	2				2
CIRCUIT 11																2	2				2
*10 CIRCUIT 1															2	2	2				
CIRCUIT 3															2	2	2				
CIRCUIT 5															2	2	2				
*8 GROUND	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
*6 CIRCUIT 1		2							2												
CIRCUIT 2			2	2				2													
*4 CIRCUIT 1							2	2	2												
CIRCUIT 2								2	2												
CIRCUIT 8																	2	2			
CIRCUIT 10																	2	2			
CIRCUIT 12																	2	2			
CIRCUIT 14																	2	2			
CIRCUIT 16																	2	2			
CIRCUIT 18																	2	2			
*2 CIRCUIT 2																				2	
CIRCUIT 4																				2	
CIRCUIT 6																				2	
CIRCUIT 14																				2	
CIRCUIT 16																				2	
CIRCUIT 18																				2	
PERCENT FILL	10	6	10	6	14	12	13	19	16	7	4	6	4	16	6	9	31	28	12	18	5

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>POLE &amp; CONDUCTOR SCHEDULES</b>	
ROUTE	LOCATION		1-10 RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. T-14.05

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	596	849	

010 PM 252

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



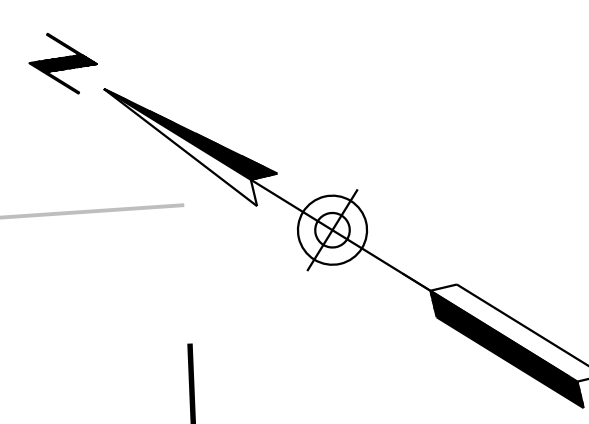
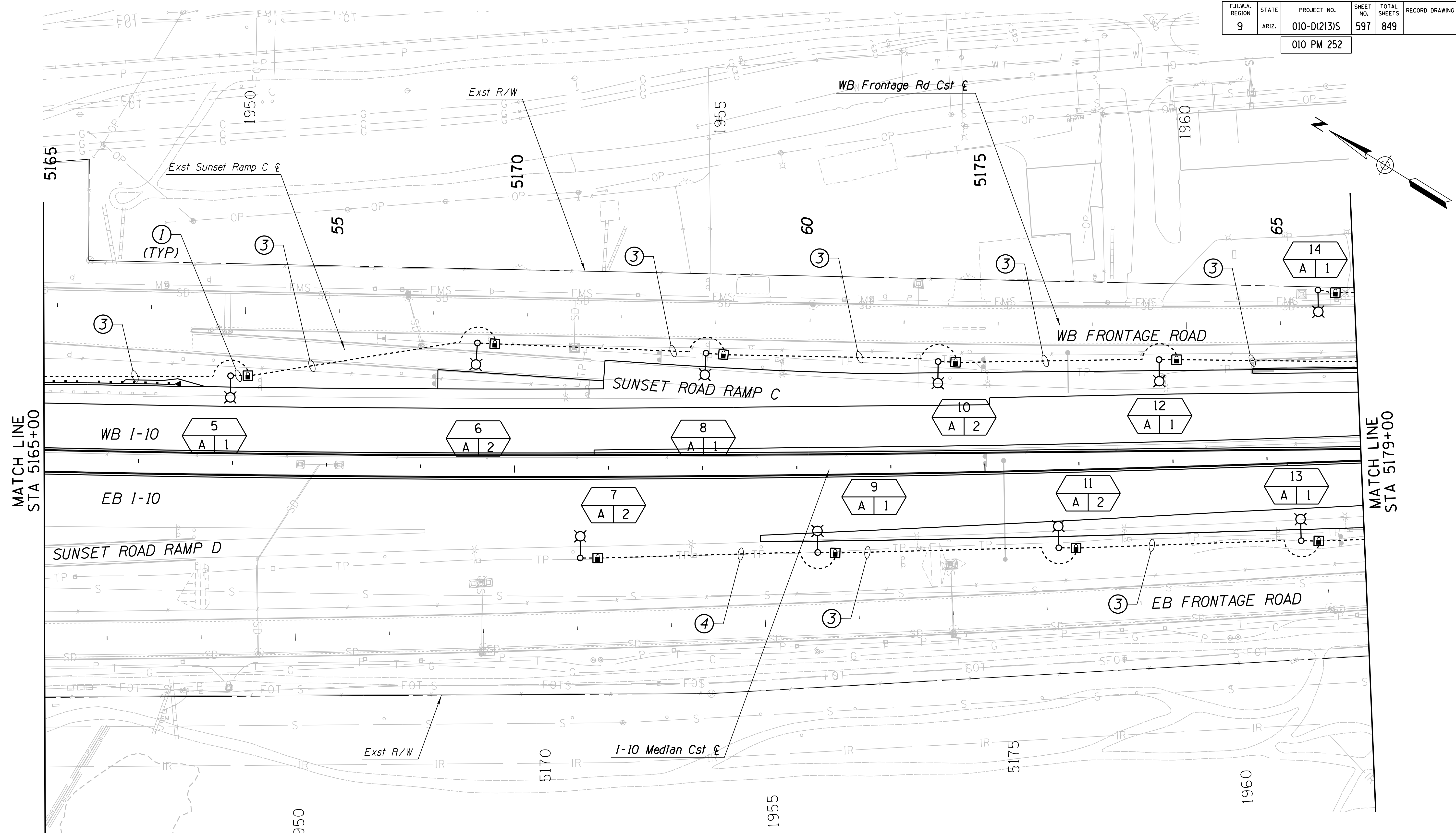
MATCH LINE  
 STA 5165+00

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> Sta 5151+00 to 5165+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	DWG NO. T-14.06	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	597	849	

010 PM 252



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

MATCH LINE  
STA 5165+00

MATCH LINE  
STA 5179+00

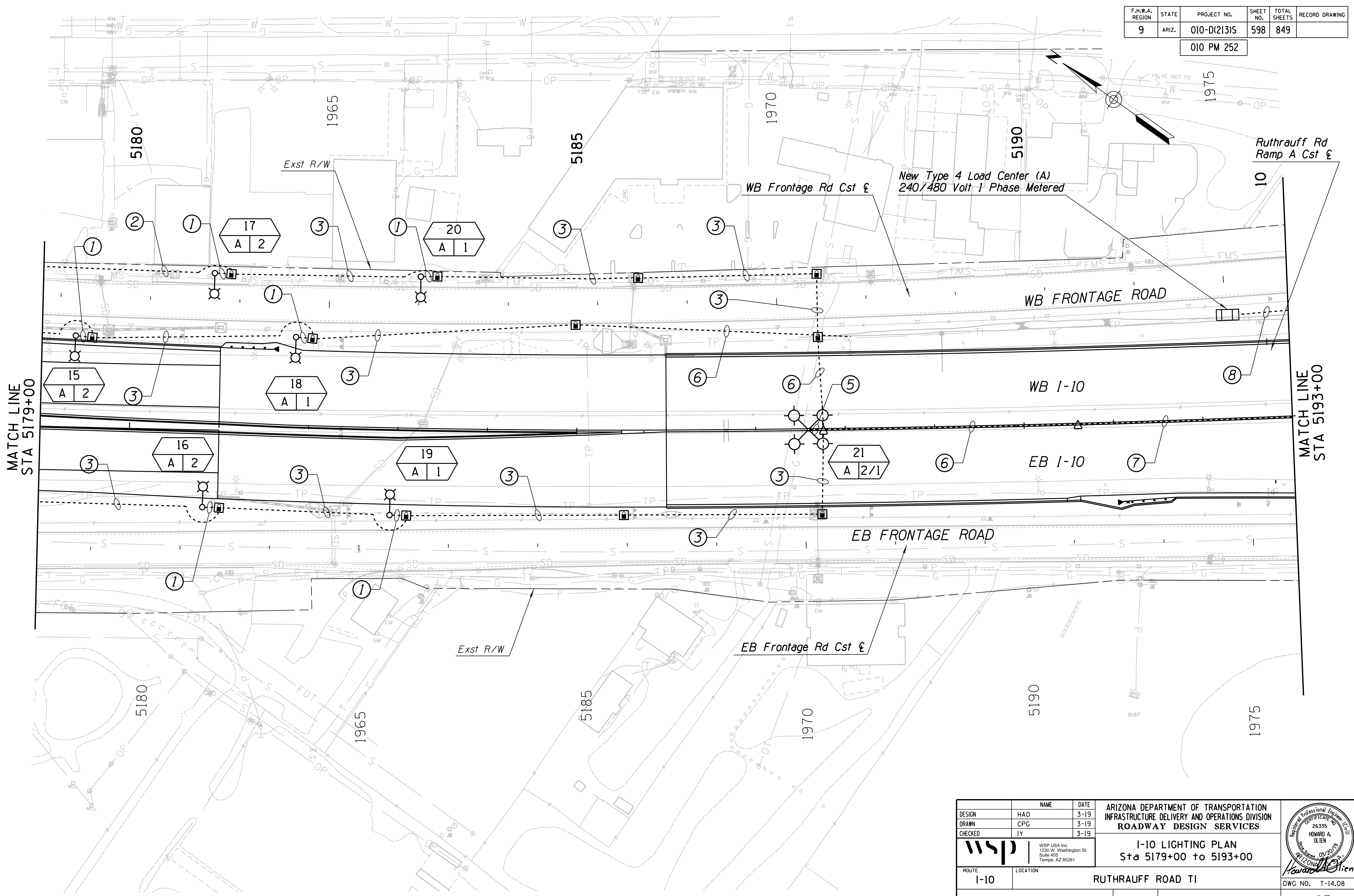
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> Sta 5165+00 to 5179+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. T-14.07

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	598	849	

010 PM 252

MATCH LINE  
STA 5179+00

MATCH LINE  
STA 5193+00



New Type 4 Load Center (A)  
240/480 Volt 1 Phase Metered

Ruthrauff Rd  
Ramp A Cst E

WB FRONTAGE ROAD

WB I-10

EB I-10

EB FRONTAGE ROAD

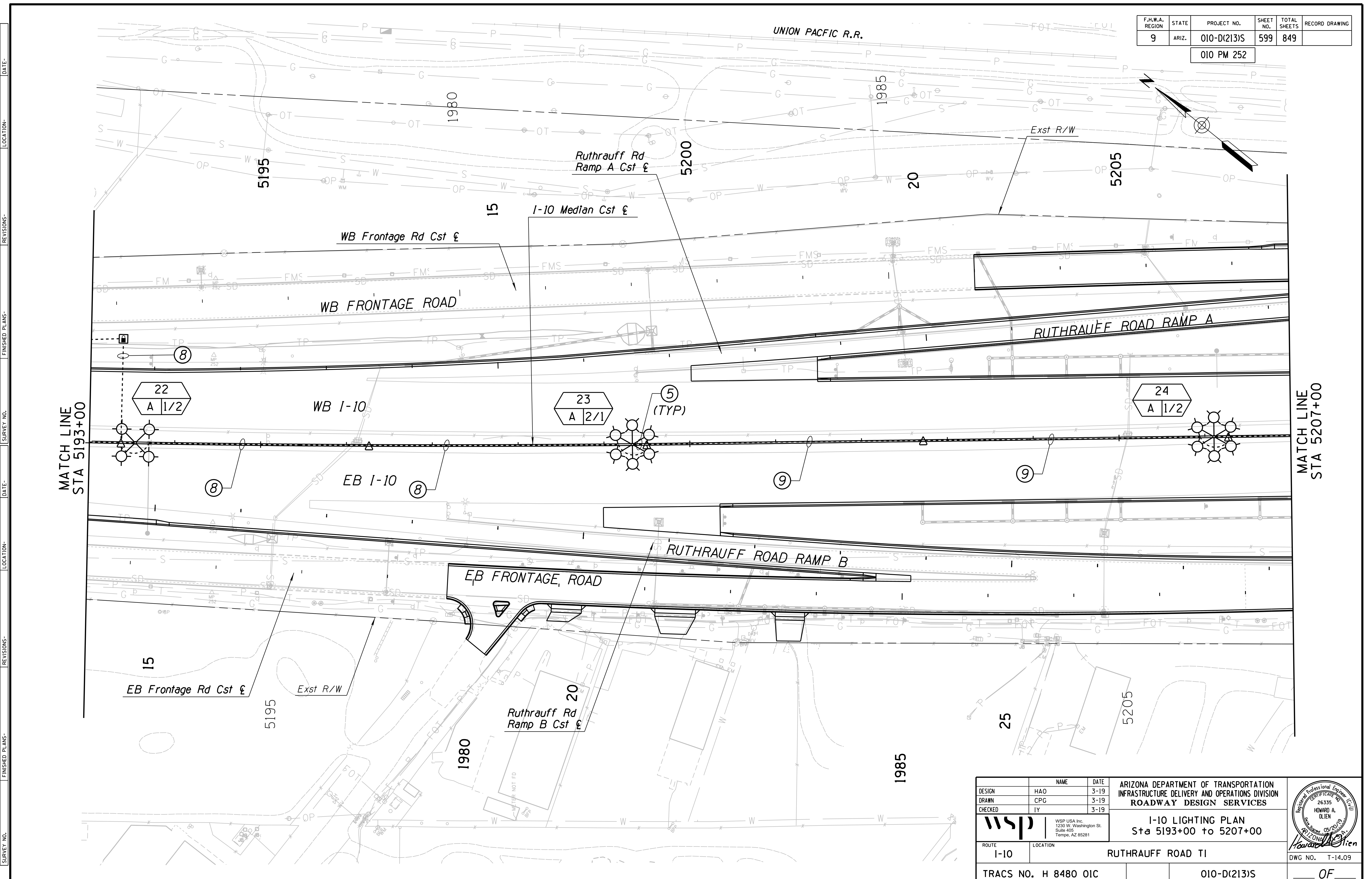
EB Frontage Rd Cst E

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> Sta 5179+00 to 5193+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC		010-D(213)S		DWG NO. T-14.08	

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	599	849	

010 PM 252



MATCH LINE  
STA 5193+00

MATCH LINE  
STA 5207+00

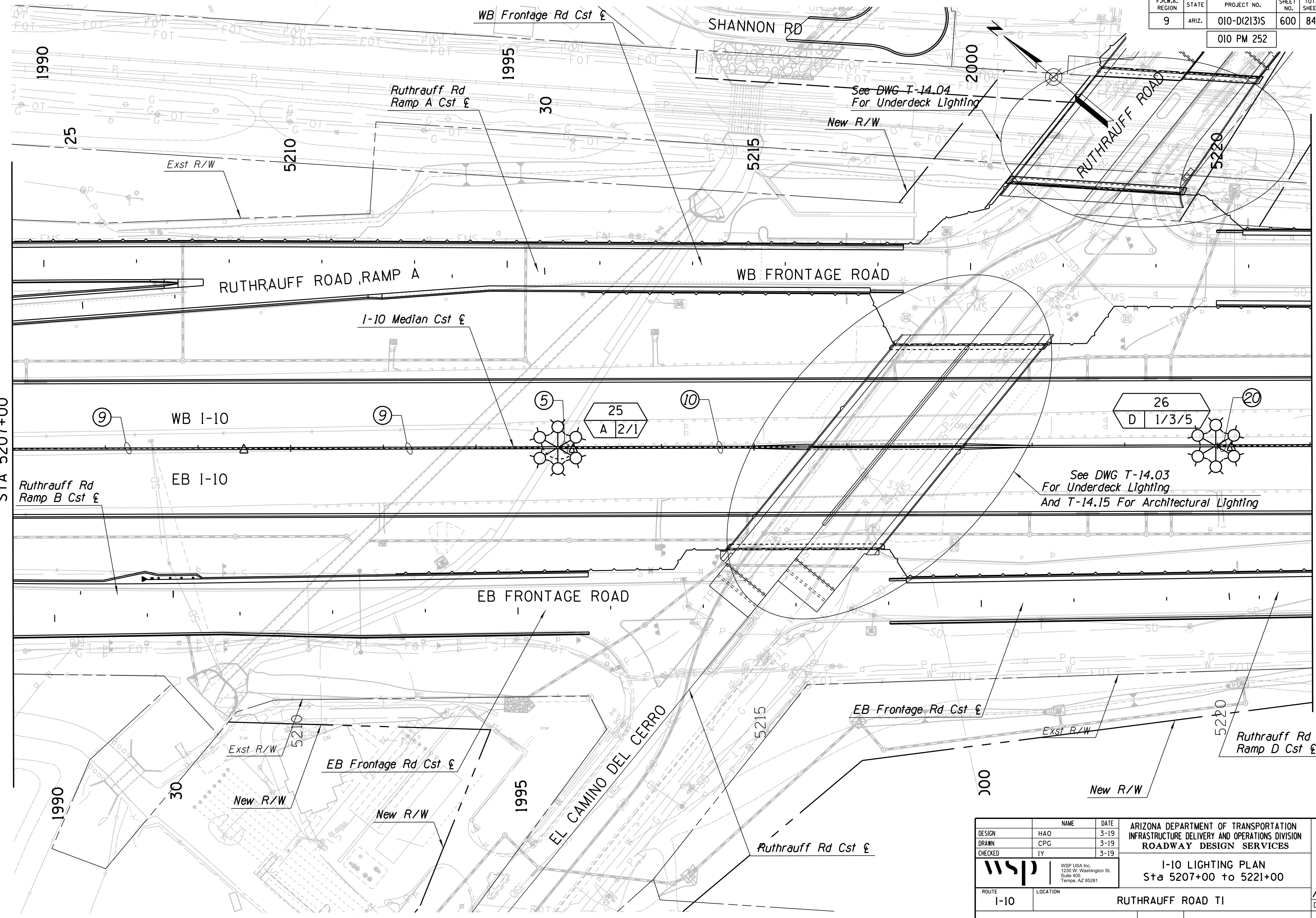
DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1220 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> Sta 5193+00 to 5207+00	
ROUTE	LOCATION		RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		DWG NO. T-14.09

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	600	849	

010 PM 252

MATCH LINE  
STA 5207+00

MATCH LINE  
STA 5221+00



DESIGN	HAO	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	IY	DATE	3-19
<b>wsp</b>		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI
TRACS NO.	H 8480 OIC	PROJECT NO.	010-D(213)S

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

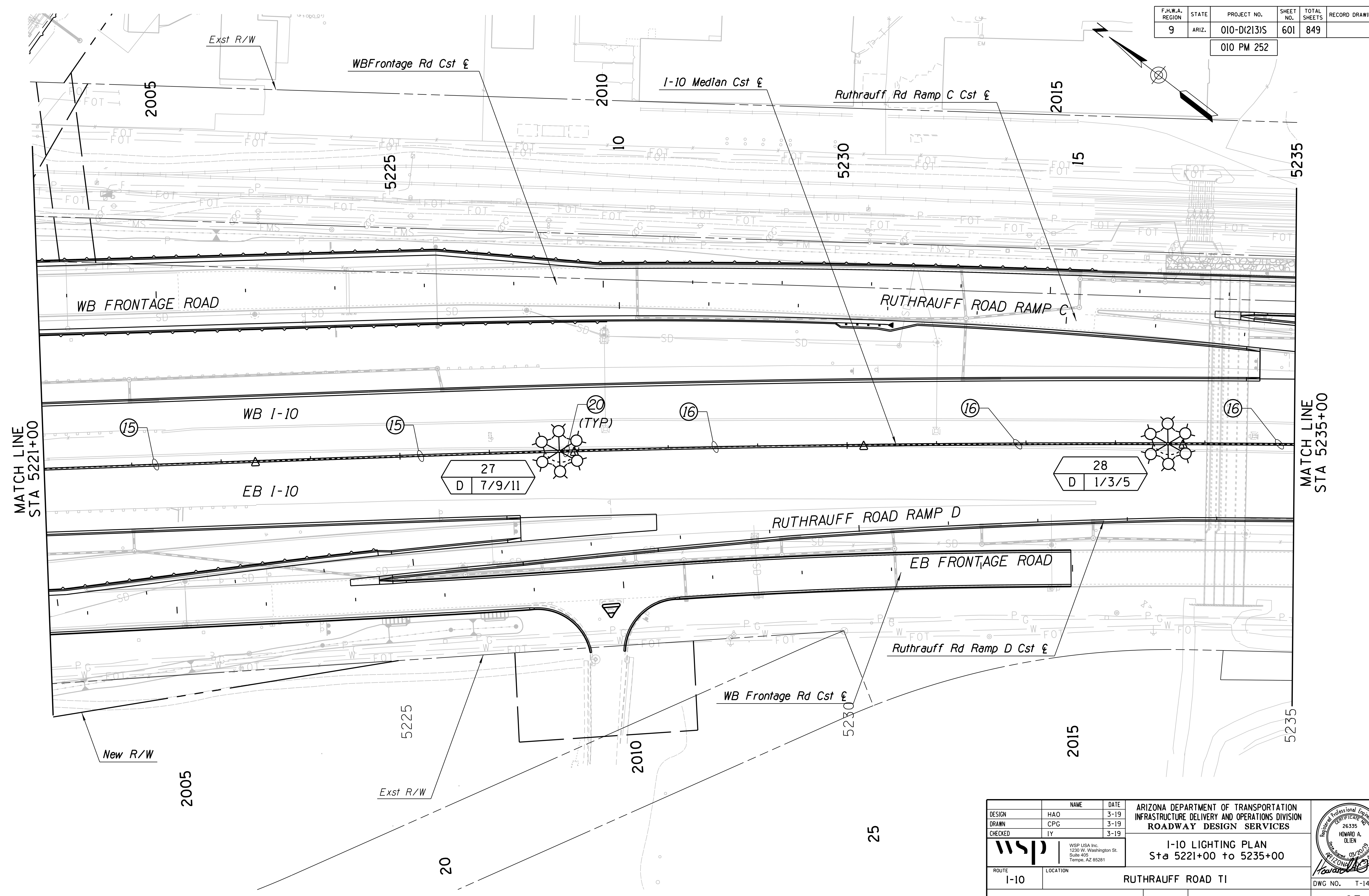
**I-10 LIGHTING PLAN**  
Sta 5207+00 to 5221+00

HOWARD A. OLIEN  
Professional Engineer  
License No. 26335  
State of Arizona

DWG NO. T-14.10  
OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	601	849	

010 PM 252



MATCH LINE  
STA 5221+00

MATCH LINE  
STA 5235+00

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

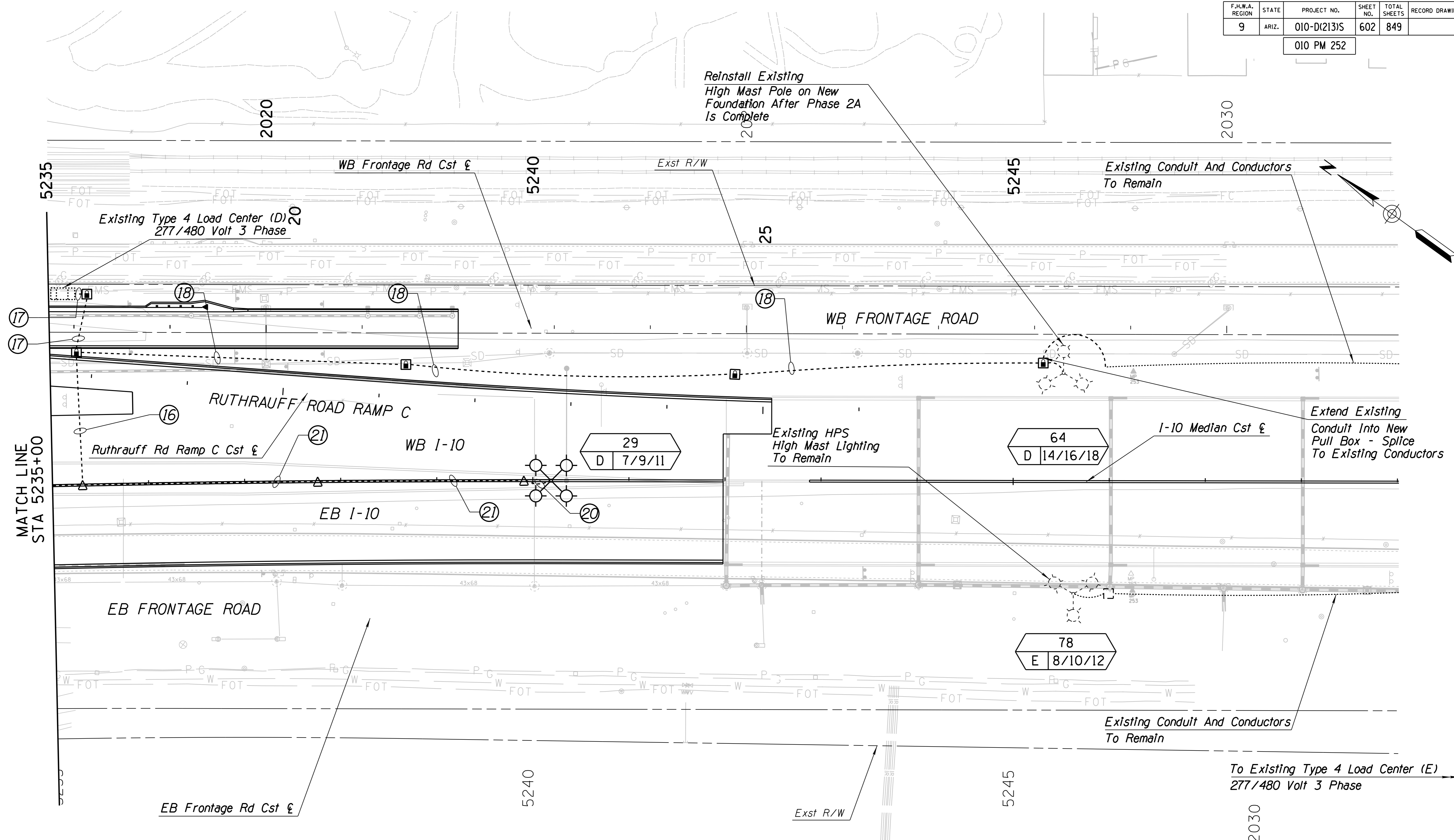
27  
D 7/9/11

28  
D 1/3/5

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		I-10 LIGHTING PLAN Sta 5221+00 to 5235+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC	010-D(213)S		DWG NO.	T-14.11

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	602	849	

010 PM 252



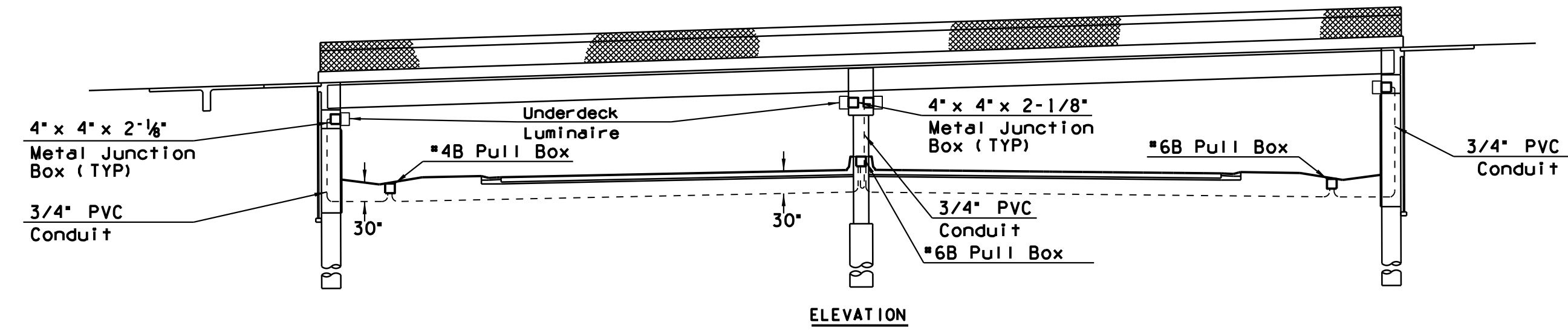
MATCH LINE STA 5235+00

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPC	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> Sta 5235+00 to 5249+00	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO. H 8480 OIC			010-D(213)S		
					DWG NO. T-14.12
					OF

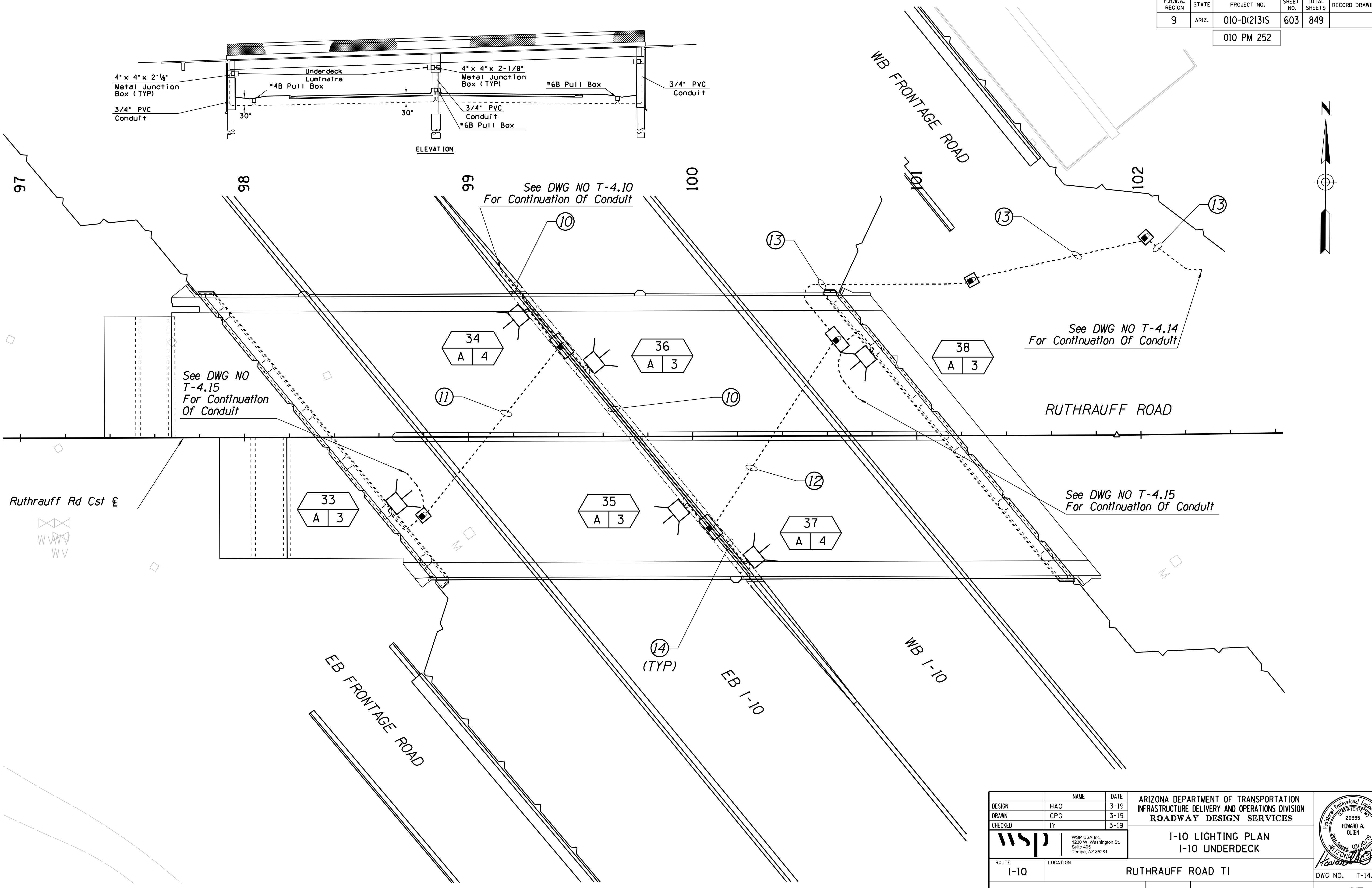
SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO. FINISHED PLANS DATE LOCATION REVISIONS FINISHED PLANS DATE SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	603	849	

010 PM 252



ELEVATION

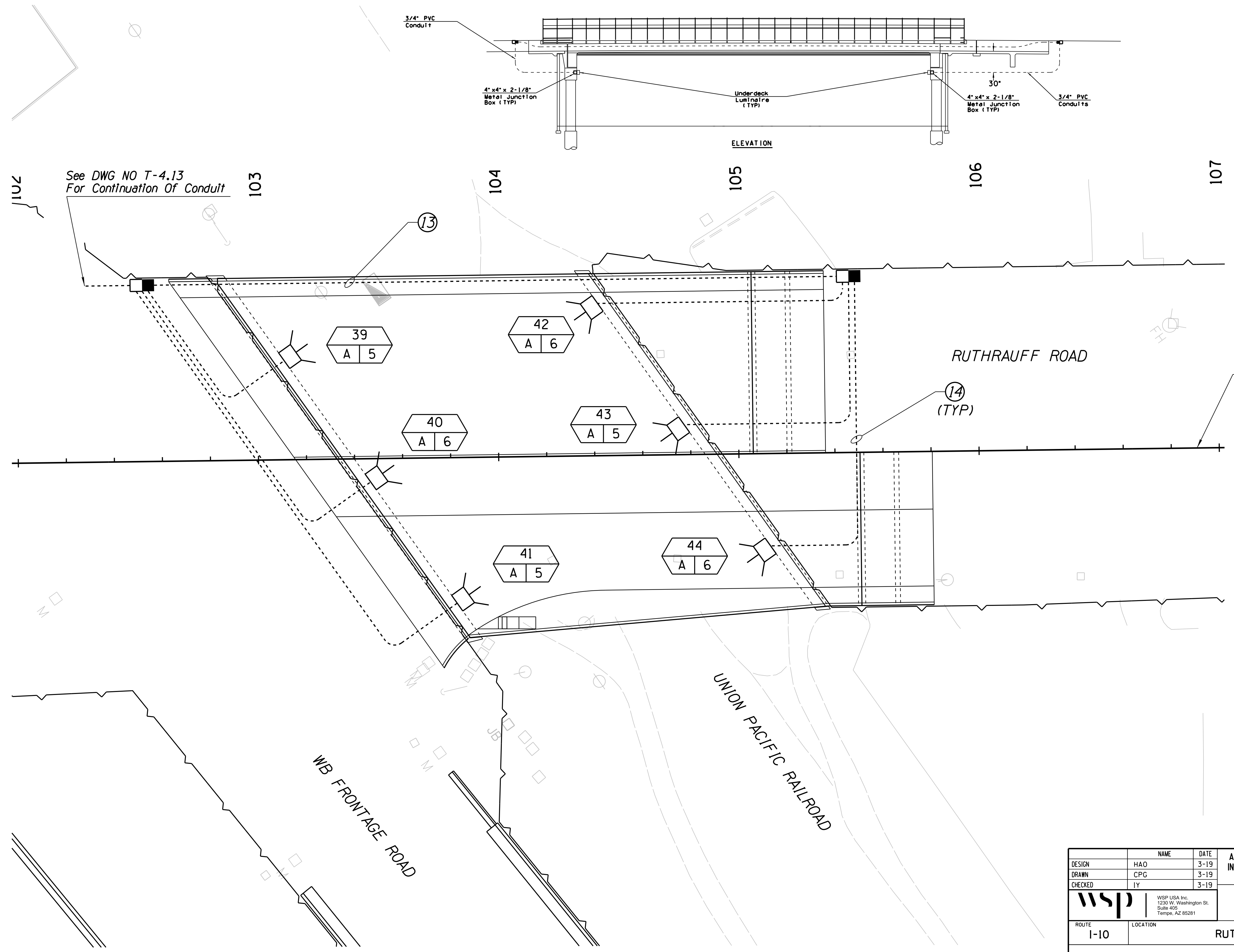
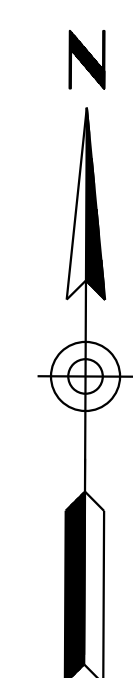


DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_ SURVEY NO.: \_\_\_\_\_

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> <b>I-10 UNDERDECK</b>	
ROUTE	I-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 OIC		010-D(213)S	OF	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	604	849	

010 PM 252



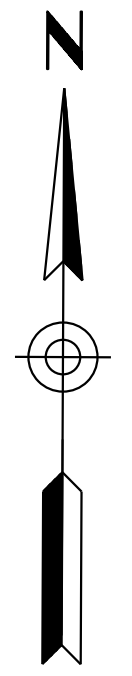
DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

DESIGN	HAO	DATE	3-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	CPG	DATE	3-19		
CHECKED	IY	DATE	3-19		
		WSP USA Inc. 1230 W. Washington St. Suite 405 Tempe, AZ 85281		<b>I-10 LIGHTING PLAN</b> <b>UPRR UNDERDECK</b>	
ROUTE	1-10	LOCATION	RUTHRAUFF ROAD TI		
TRACS NO.	H 8480 01C		010-D(213)S	DWG NO. T-14.14	

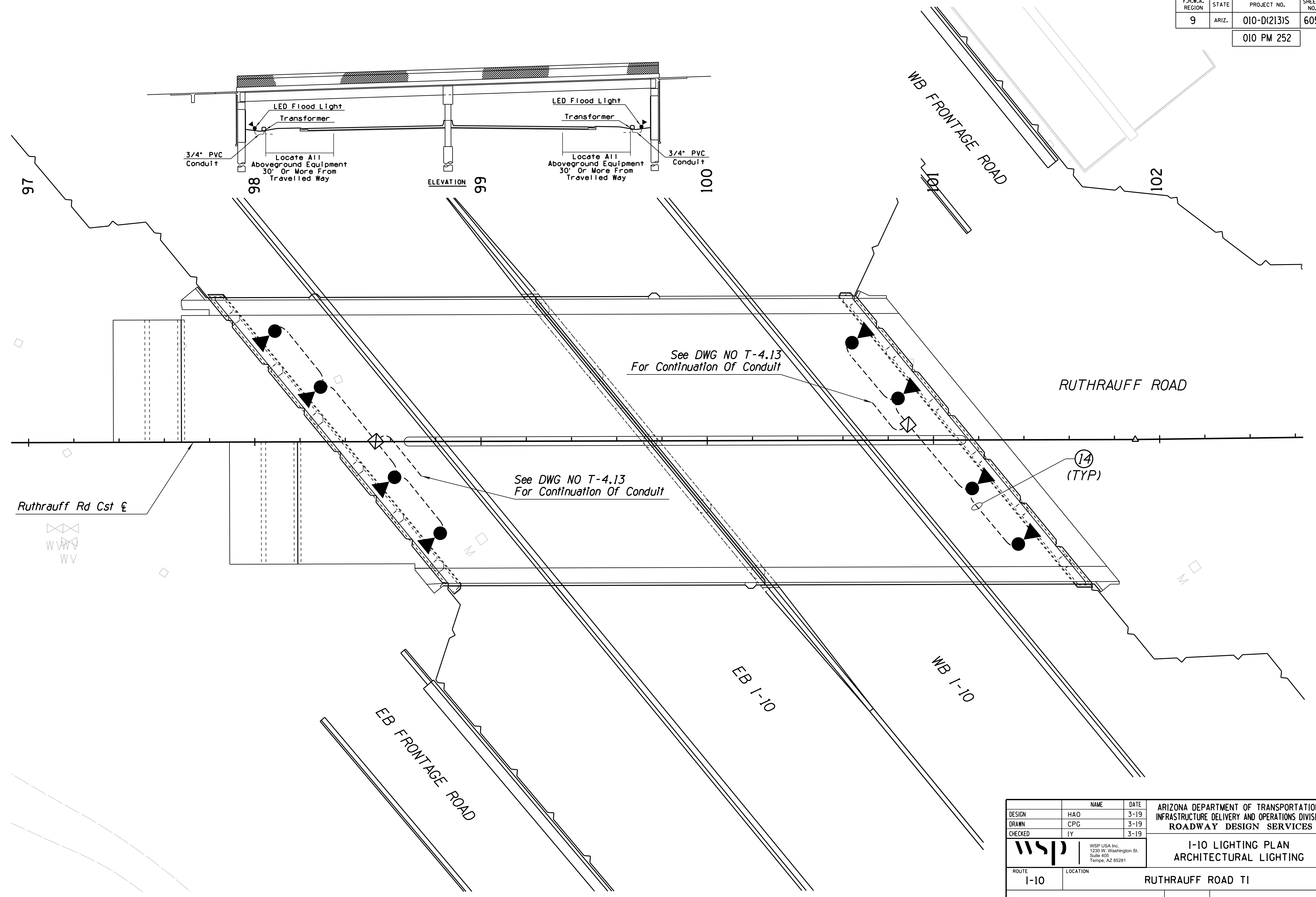


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	605	849	

010 PM 252



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



Ruthrauff Rd Cst &

See DWG NO T-4.13  
For Continuation Of Conduit

See DWG NO T-4.13  
For Continuation Of Conduit

RUTHRAUFF ROAD

(14)  
(TYP)

EB I-10

WB I-10

EB FRONTAGE ROAD

WB FRONTAGE ROAD

LED Flood Light  
Transformer  
3/4" PVC Conduit  
Locate All Aboveground Equipment 30' Or More From Travelled Way

LED Flood Light  
Transformer  
3/4" PVC Conduit  
Locate All Aboveground Equipment 30' Or More From Travelled Way

ELEVATION 99

97

98

100

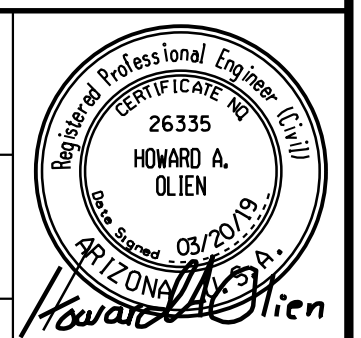
101

102

DESIGN	HAO	DATE	3-19
DRAWN	CPG	DATE	3-19
CHECKED	IY	DATE	3-19

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

I-10 LIGHTING PLAN  
ARCHITECTURAL LIGHTING

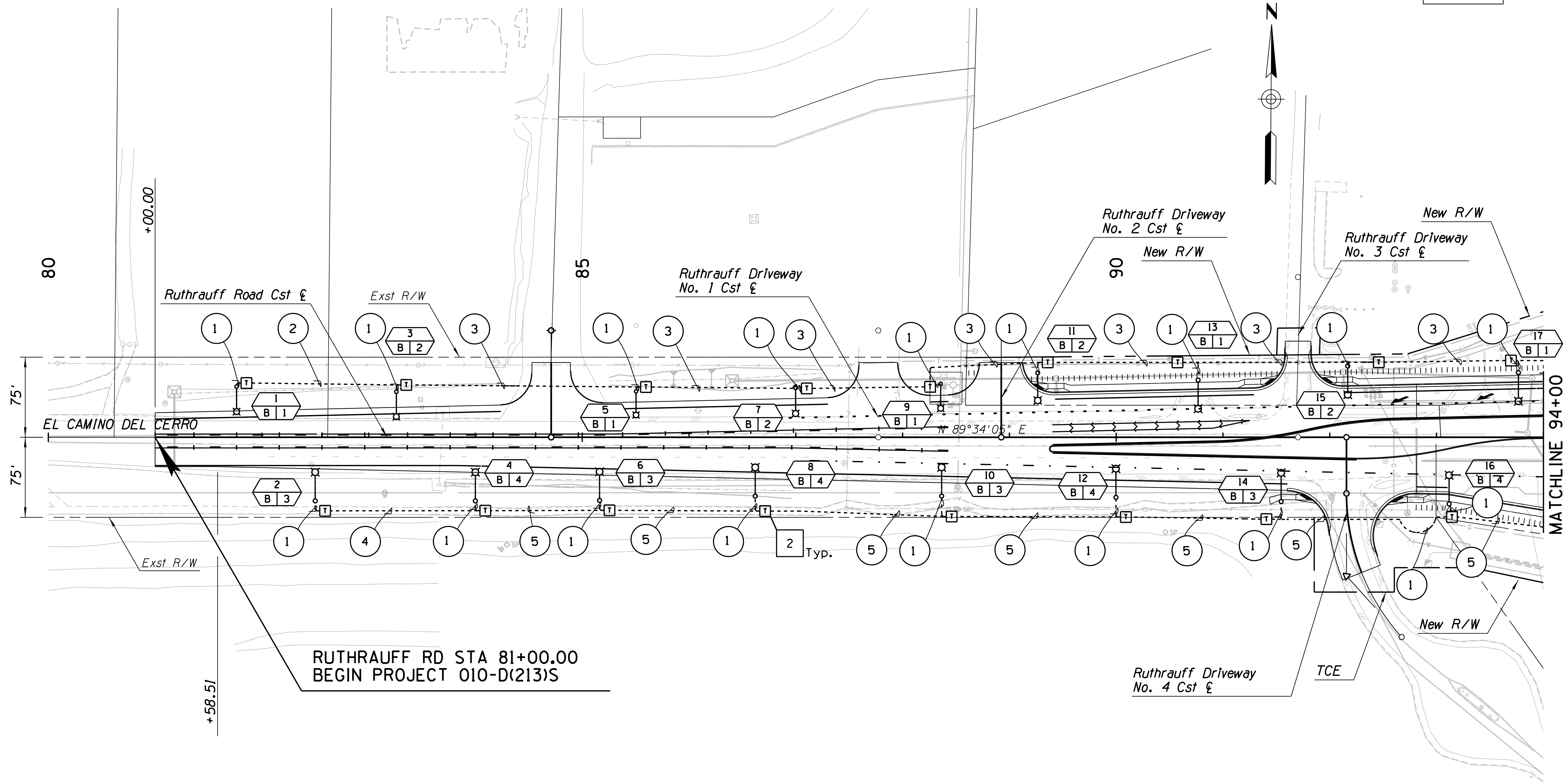


ROUTE	LOCATION	DWG NO.
I-10	RUTHRAUFF ROAD TI	T-14.15

TRACS NO.	H 8480 OIC	010-D(213)S	OF
-----------	------------	-------------	----

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	606	849	

010 PM 252



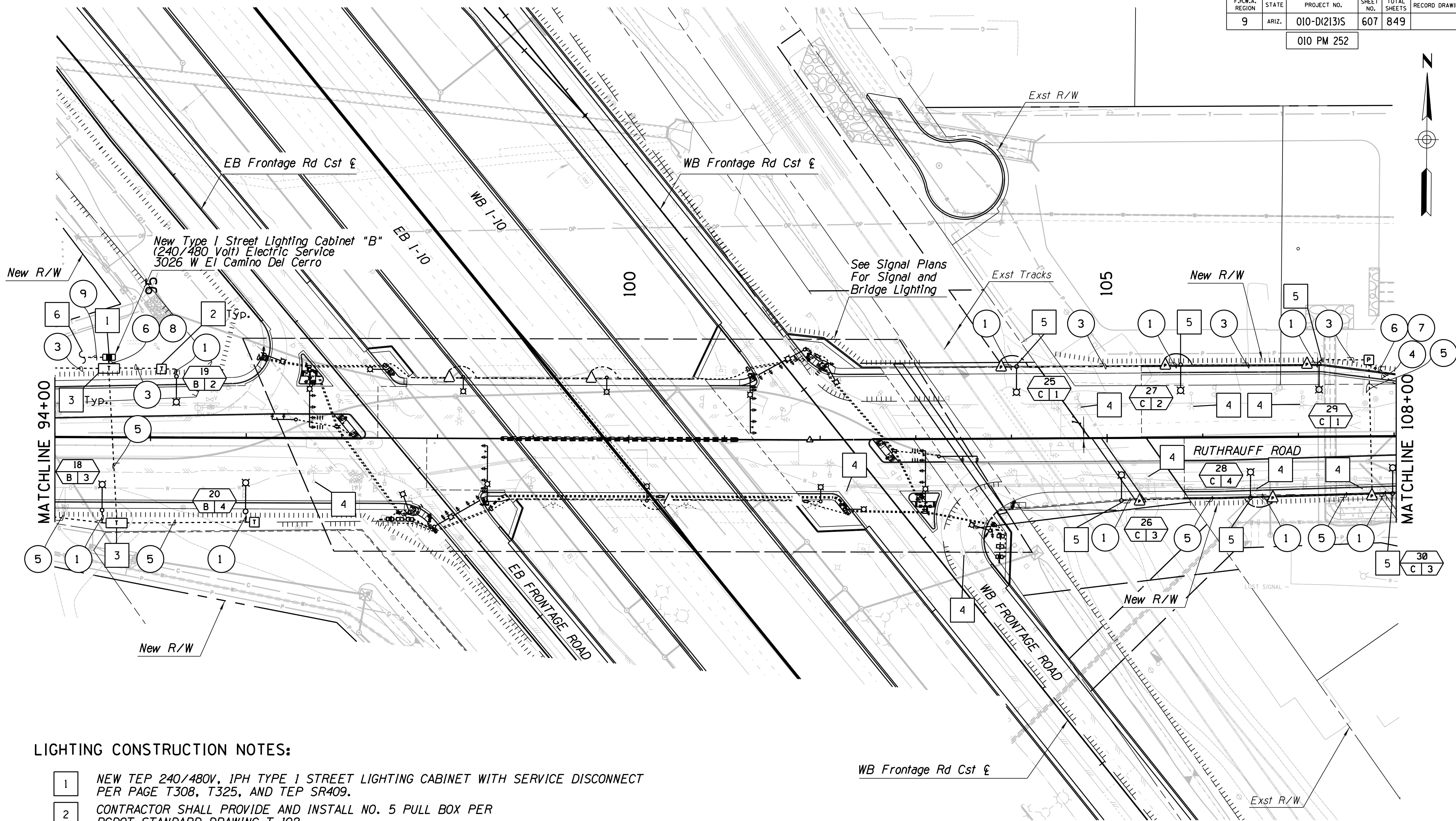
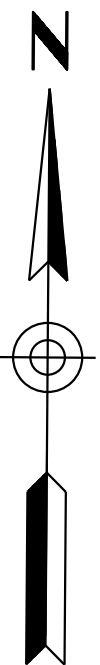
**LIGHTING CONSTRUCTION NOTES:**

- 2 CONTRACTOR SHALL PROVIDE AND INSTALL NO. 5 PULL BOX PER PCDOT STANDARD DRAWING T 102.

DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION <b>ROADWAY DESIGN SERVICES</b>  <b>RUTHRAUFF ROAD</b> <b>LIGHTING PLAN</b> <b>STA 80+00 TO STA 94+00</b>	 MICHAEL A. COLOMBO 50368 ARIZONA, U.S.A.
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		© 2019 KIMLEY-HORN AND ASSOCIATES, INC.		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-14.16
TRACS NO. H8480 OIC		010-D(213)S		OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	607	849	

010 PM 252



**LIGHTING CONSTRUCTION NOTES:**

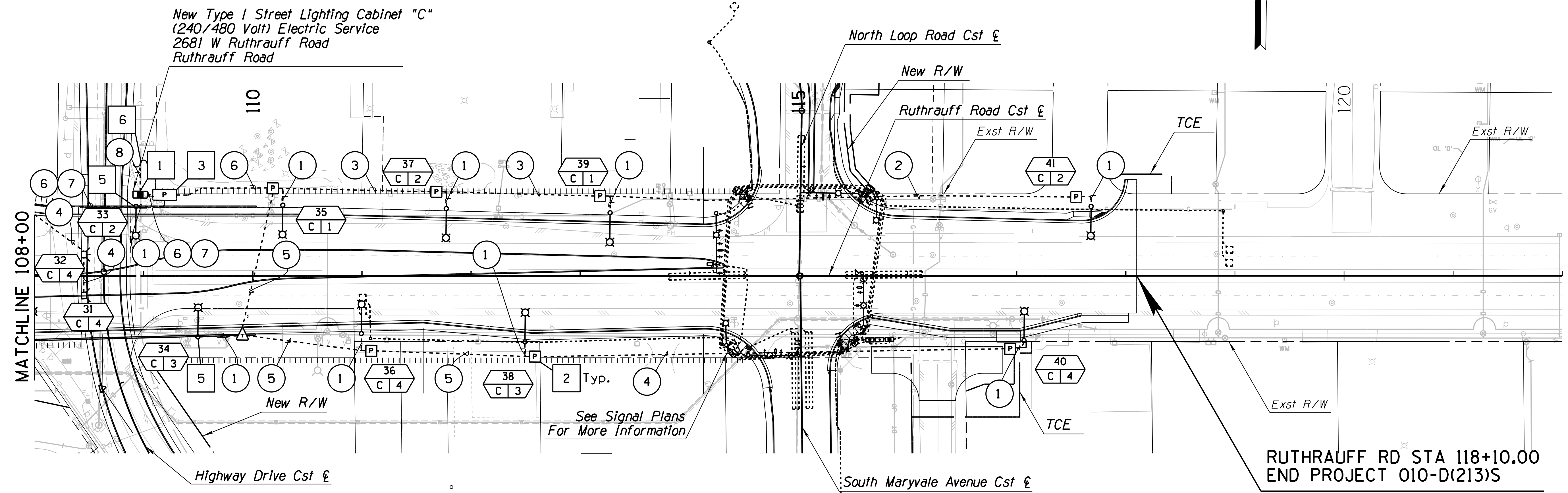
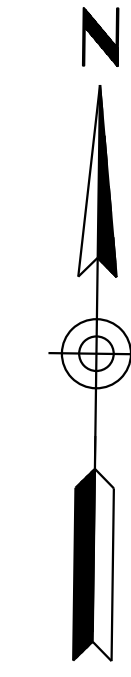
- 1 NEW TEP 240/480V, 1PH TYPE 1 STREET LIGHTING CABINET WITH SERVICE DISCONNECT PER PAGE T308, T325, AND TEP SR409.
- 2 CONTRACTOR SHALL PROVIDE AND INSTALL NO. 5 PULL BOX PER PCDOT STANDARD DRAWING T 102.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL NO. 7 PULL BOX PER PER PCDOT STANDARD DRAWING T 104.
- 4 CONTRACTOR SHALL REMOVE EXISTING STREET LIGHT POLE, FOUNDATION AND PULL BOX. CONDUCTORS SHALL BE REMOVED BACK TO SOURCE. ABANDON CONDUIT IN PLACE.
- 5 INSTALL BLISTER FOR STREET LIGHT. SEE BRIDGE SHEETS FOR DETAIL.
- 6 CONTRACTOR SHALL COORDINATE WITH TEP AND ROUTE CONDUIT TO TEP POINT OF SERVICE.

DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD LIGHTING PLAN STA 94+00 TO STA 108+00		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-14.17
TRACS NO. H8480 OIC		010-D(213)S		OF

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

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	608	849	

010 PM 252



MATCHLINE 108+00

RUTHRAUFF RD STA 118+10.00  
END PROJECT 010-D(213)S

**LIGHTING CONSTRUCTION NOTES:**

- 1 NEW TEP 240/480V, 1PH TYPE I STREET LIGHTING CABINET WITH SERVICE DISCONNECT PER PAG T308, T325, AND TEP SR409.
- 2 CONTRACTOR SHALL PROVIDE AND INSTALL NO. 5 PULL BOX PER PCDOT STANDARD DRAWING T 102.
- 3 CONTRACTOR SHALL PROVIDE AND INSTALL NO. 7 PULL BOX PER PCDOT STANDARD DRAWING T 104.
- 5 INSTALL BLISTER FOR STREET LIGHT. SEE BRIDGE SHEETS FOR DETAIL.
- 6 CONTRACTOR SHALL COORDINATE WITH TEP AND ROUTE CONDUIT TO TEP POINT OF SERVICE

DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD LIGHTING PLAN STA 108+00 TO STA 121+55		
ROUTE	LOCATION	RUTHRAUFF TI		DWG NO. T-14.18
TRACS NO. H8480 OIC		010-D(213)S		OF

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

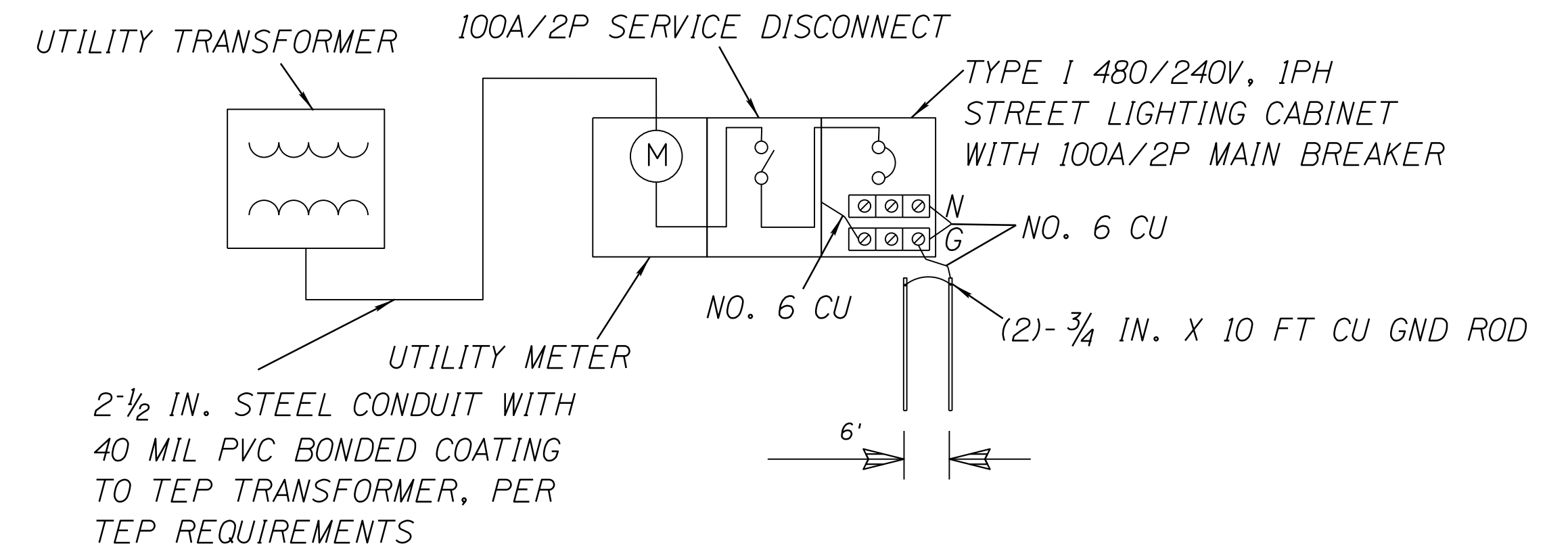
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	609	849	

010 PM 252

TUCSON ELECTRIC POWER - STREET LIGHTING CABINET TABLE - RUTHRAUFF ROAD

LOAD CENTER No:	"B" - CITY OF TUCSON
LOAD CENTER LOCATION:	3026 W EL CAMINO DEL CERRO
LOAD CENTER MAINTENANCE No:	
LOAD CENTER TYPE:	TYPE 1, 480-240V, 1 PHASE, 100A (METERED)
LOAD CENTER XFMR SIZE:	N/A
MAIN CIRCUIT BKR:	100A, 2-POLE

CKT NO.	CKT BKR	STATUS	BKR AMPS	CONDUCTOR SIZE	OUTPUT VOLTS	LOAD AMPS
1	2-POLE	NEW	20 A	#10 AWG	480 V	2.02 A
2	2-POLE	NEW	20 A	#10 AWG	480 V	2.02 A
3	2-POLE	NEW	20 A	#10 AWG	480 V	2.02 A
4	2-POLE	NEW	20 A	#10 AWG	480 V	2.02 A
					SERVICE AMPS	8.08 A
					DEMAND (125%)	2.02 A
					POWER (VA)	4,850
					TOTAL AMPS	10.1 A



**SINGLE LINE DIAGRAM**  
N.T.S.

CONDUCTOR SCHEDULE FOR RUTHRAUFF ROAD  
TYPE 1 LOAD CENTER CABINET  
FOR RUTHRAUFF ROAD MAINLINE LIGHTING - PLAN DESIGNATION "B"

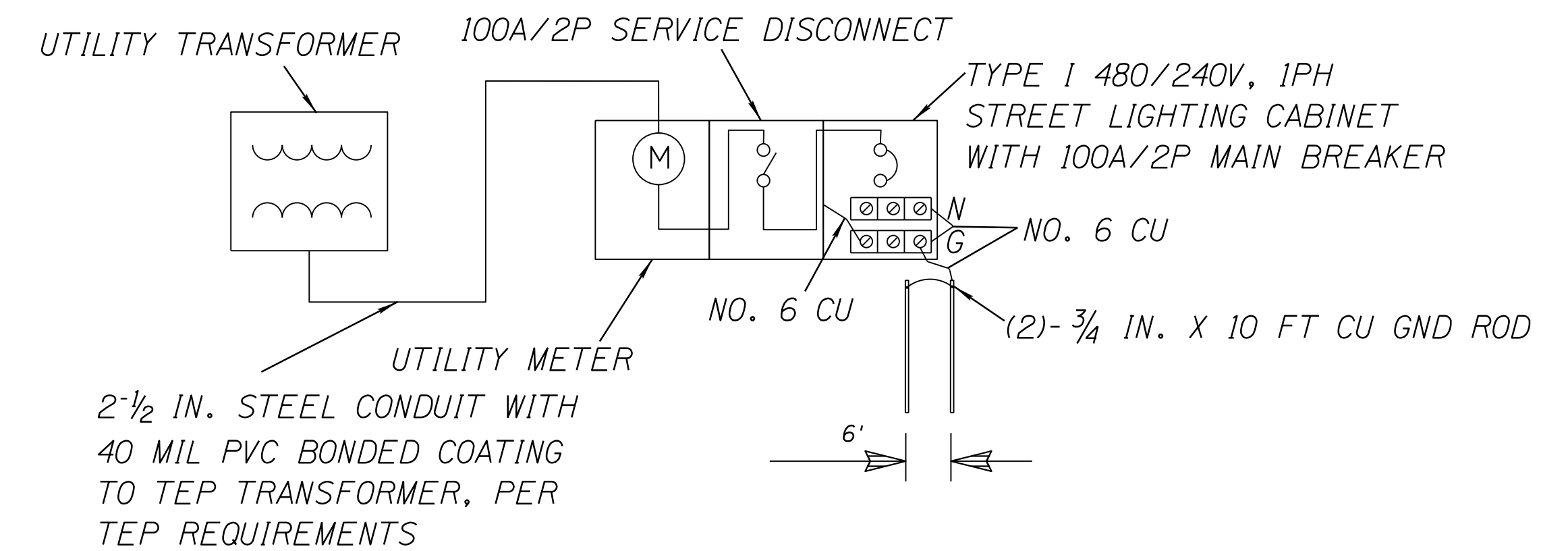
CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8	9				
CONDUIT SIZE (IN)	1	2	2	2	2	3	1	3	2.5				
AWG	NUMBER OF CONDUCTORS PER CONDUIT												
#12 LIGHTING (POLE TO PULLBOX)	2												
#12 LIGHTING CONTROL (POLE TO CABINET)													
#10 LIGHTING CIRCUIT 1		2	2			2							
#10 LIGHTING CIRCUIT 2			2			2							
#10 LIGHTING CIRCUIT 3				2	2	2	2						
#10 LIGHTING CIRCUIT 4					2	2							
#12 INSULATED GREEN BOND	1												
#10 INSULATED GREEN BOND		1	1	1	1	1	1						
PULL ROPE											1		
CONDUCTORS BY UTILITY COMPANY												1	

DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD LOAD CENTER B TABLE AND CONDUIT SCHEDULE		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-14.19
TRACS NO.	H8480 OIC		010-D(213)S	OF

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	610	849	

010 PM 252

TUCSON ELECTRIC POWER - STREET LIGHTING CABINET TABLE - RUTHRAUFF ROAD						
LOAD CENTER No:		"C" - PIMA COUNTY				
LOAD CENTER LOCATION:		2681 W. RUTHRAUFF ROAD				
LOAD CENTER MAINTENANCE No:						
LOAD CENTER TYPE:		TYPE 1, 480-240V, 1 PHASE, 100A (METERED)				
LOAD CENTER XFMR SIZE:		N/A				
MAIN CIRCUIT BKR:		100A, 2-POLE				
CKT NO.	CKT BKR	STATUS	BKR AMPS	CONDUCTOR SIZE	OUTPUT VOLTS	LOAD AMPS
1	2-POLE	NEW	20 A	#10 AWG	480 V	1.61 A
2	2-POLE	NEW	20 A	#10 AWG	480 V	1.61 A
3	2-POLE	NEW	20 A	#10 AWG	480 V	1.21 A
4	2-POLE	NEW	20 A	#10 AWG	480 V	2.28 A
					SERVICE AMPS	6.75 A
					DEMAND (125%)	1.70 A
					POWER (VA)	4,080
					TOTAL AMPS	8.5 A



**SINGLE LINE DIAGRAM**  
N.T.S.

CONDUCTOR SCHEDULE FOR RUTHRAUFF ROAD TYPE 1 LOAD CENTER CABINET FOR RUTHRAUFF ROAD MAINLINE LIGHTING - PLAN DESIGNATION "C"										
CONDUIT RUN NUMBER	1	2	3	4	5	6	7	8		
CONDUIT SIZE (IN)	1	2	2	2	2	3	3	2.5		
AWG CONDUIT USE	NUMBER OF CONDUCTORS PER CONDUIT									
#12 LIGHTING (POLE TO PULLBOX)	2									
#12 LIGHTING CONTROL (POLE TO CABINET)										
#10 LIGHTING CIRCUIT 1 LIGHTING CIRCUIT 2 LIGHTING CIRCUIT 3 LIGHTING CIRCUIT 4			2			2				
		2	2			2				
					2	2				
				2	2	2				
#12 INSULATED GREEN BOND	1									
#10 INSULATED GREEN BOND		1	1	1	1	1				
PULL ROPE							1			
CONDUCTORS BY UTILITY COMPANY								1		

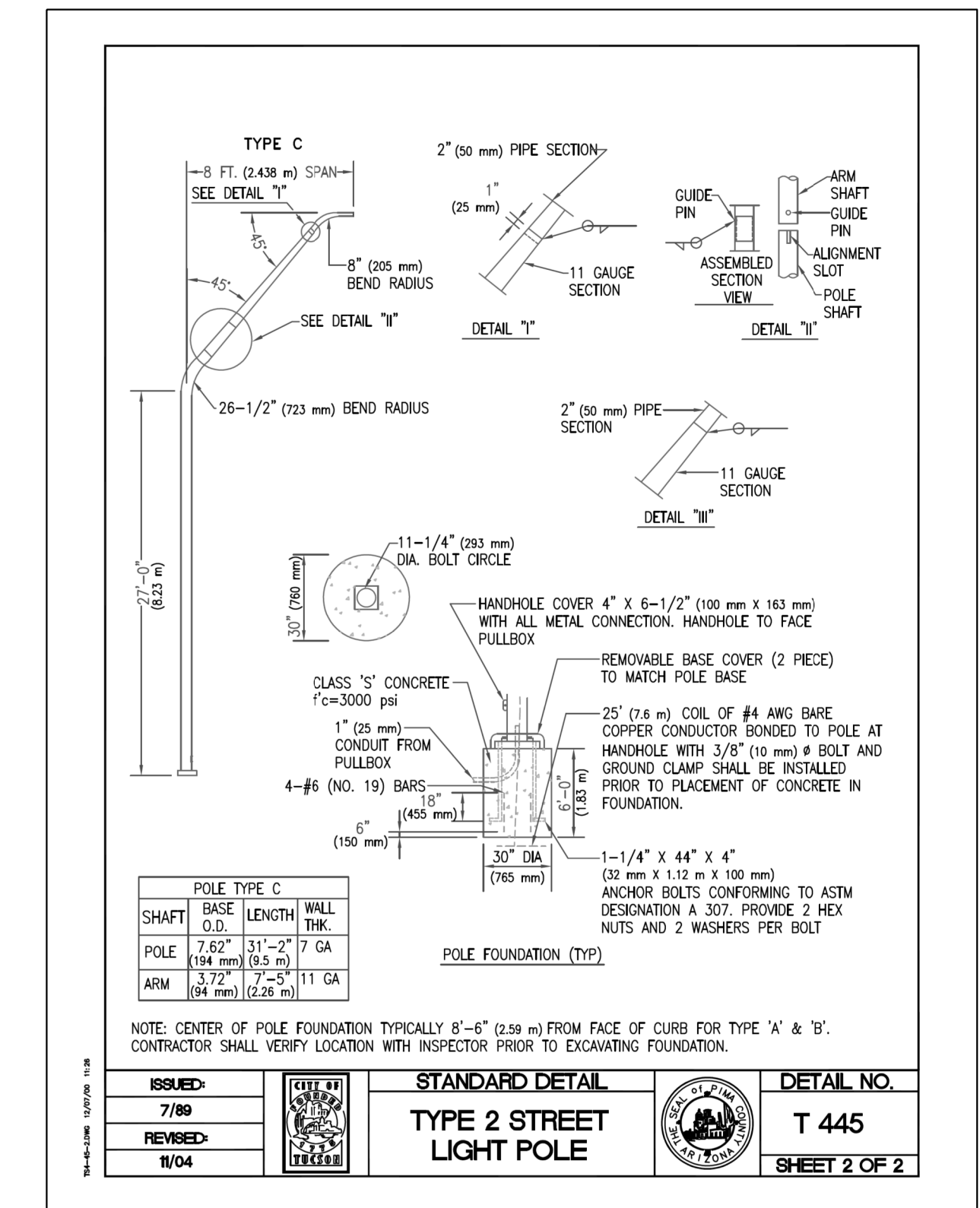
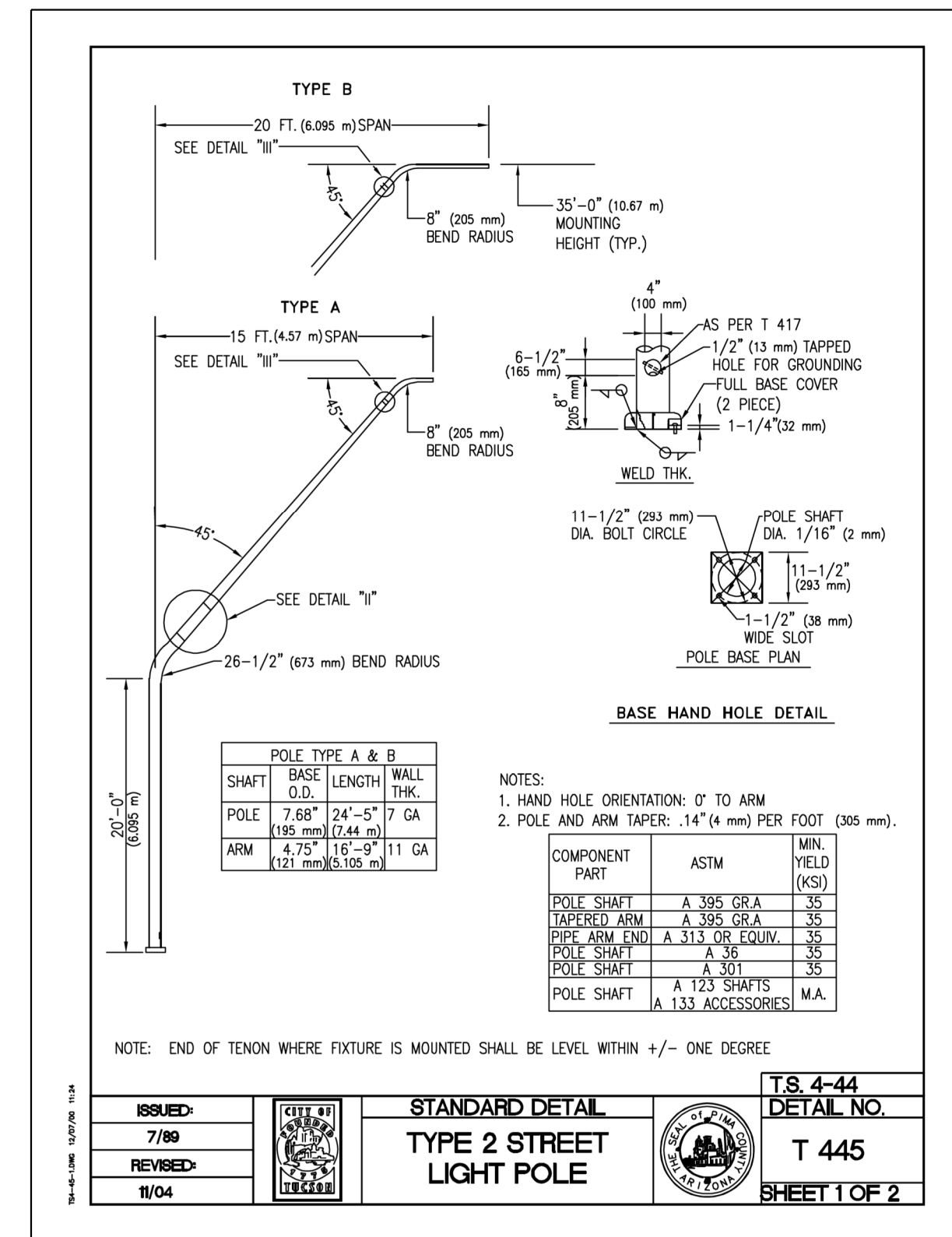
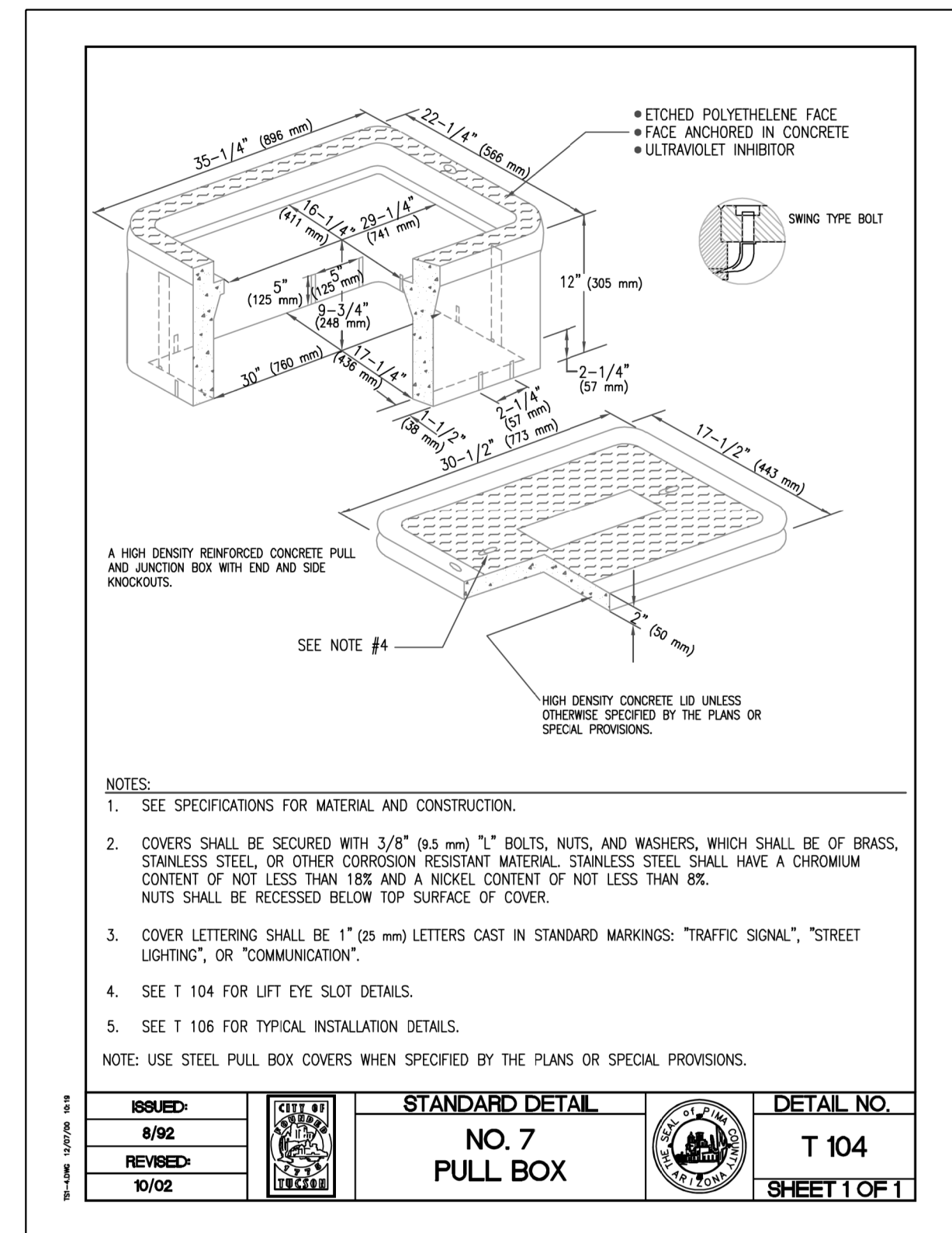
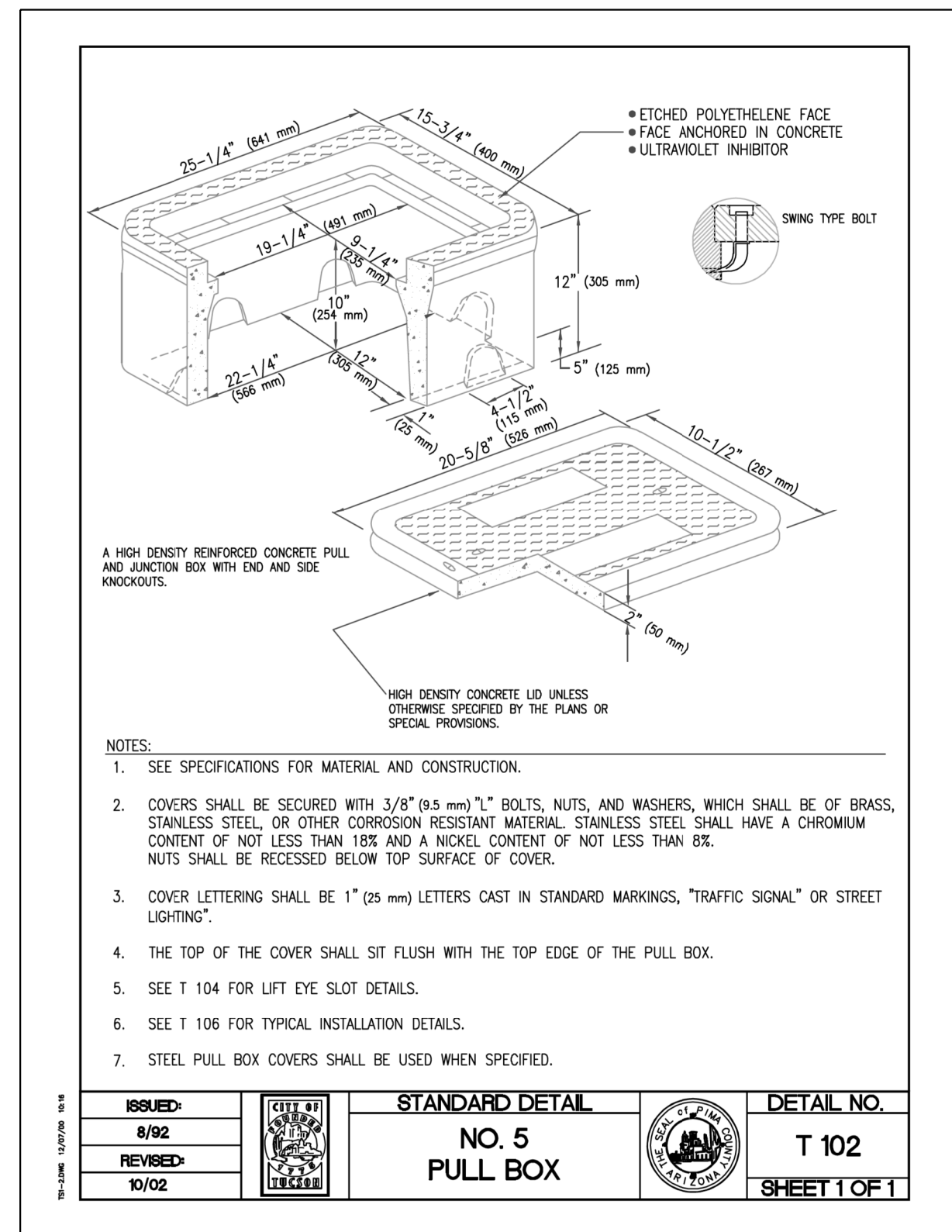
DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		RUTHRAUFF ROAD LOAD CENTER C TABLE AND CONDUIT SCHEDULE		
ROUTE	1-10	LOCATION	RUTHRAUFF TI	DWG NO. T-14.20
TRACS NO.	H8480 OIC		010-D(213)S	OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	612	849	

010 PM 252

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



DESIGN	M. COLOMBO	5-19	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	
DRAWN	D. AHMED	5-19		
CHECKED	P. SYNTAX	5-19		
<b>Kimley»Horn</b>		LIGHTING STANDARD DETAILS		
ROUTE	LOCATION	RUTHRAUFF T1		
TRACS NO. H8480 OIC		010-D(213)S		

DWG NO. T-14.22

OF



POLE AND LUMINAIRE SCHEDULE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-D(213)S	613	849	

010 PM 252

POLE NUMBER	ROADWAY	STATION	OFFSET (FT)	LOAD CENTER	CIRCUIT	POLE TYPE	MOUNTING HEIGHT	FOUNDATION TYPE	LUMINAIRE					LUMINAIRE CAT. NO.	NOTES
									MAST ARM (RISE X LENGTH)	TYPE	FIXTURE QUANTITY	WATTAGE	DIST. TYPE		
1	RUTHRAUFF RD	81+76	47 L	B	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
2	RUTHRAUFF RD	82+50	59 R	B	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
3	RUTHRAUFF RD	83+26	43 L	B	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
4	RUTHRAUFF RD	84+00	59 R	B	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
5	RUTHRAUFF RD	85+50	43 L	B	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
6	RUTHRAUFF RD	85+16	59 R	B	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
7	RUTHRAUFF RD	86+99	46 L	B	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
8	RUTHRAUFF RD	86+62	55 R	B	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
9	RUTHRAUFF RD	88+35	50 L	B	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
10	RUTHRAUFF RD	88+37	55 R	B	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
11	RUTHRAUFF RD	89+26	60 L	B	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
12	RUTHRAUFF RD	90+00	56 R	B	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
13	RUTHRAUFF RD	90+77	54 L	B	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
14	RUTHRAUFF RD	91+55	61 R	B	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445/BREAKAWAY BASE *
15	RUTHRAUFF RD	92+17	67 L	B	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
16	RUTHRAUFF RD	93+11	62 R	B	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
17	RUTHRAUFF RD	93+77	61 L	B	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
18	RUTHRAUFF RD	94+50	77 R	B	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
19	RUTHRAUFF RD	95+27	64 L	B	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
20	RUTHRAUFF RD	96+00	77 R	B	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
21														NOT USED	
22														NOT USED	
23														NOT USED	
24														NOT USED	
25	RUTHRAUFF RD	104+06	76 L	C	1	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON BRIDGE
26	RUTHRAUFF RD	105+15	65 R	C	3	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON BRIDGE
27	RUTHRAUFF RD	105+77	76 L	C	2	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON WALL
28	RUTHRAUFF RD	106+50	63 R	C	4	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON WALL
29	RUTHRAUFF RD	107+22	77 L	C	1	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON WALL
30	RUTHRAUFF RD	107+98	59 R	C	3	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	BLISTER MOUNTED ON WALL
31	RUTHRAUFF RD	108+43	20 R	C	4	UNDERDECK	10 FT	UNDERDECK	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	WALL MOUNTED
32	RUTHRAUFF RD	108+43	20 L	C	4	UNDERDECK	10 FT	UNDERDECK	N/A	LED	1	135W	TYPE III	HOLOPHANE HLWPC2-P10-30K-48-T3S	WALL MOUNTED
33	RUTHRAUFF RD	109+98	64 L	C	2	PCDOT TYPE '2A'	35 FT	BLISTER MOUNTED	N/A	LED	1	135W	TYPE III	HOLOPHANE HLWPC2-P10-30K-48-T3S	BLISTER MOUNTED ON WALL
34	RUTHRAUFF RD	109+50	56 R	C	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
35	RUTHRAUFF RD	110+27	65 L	C	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
36	RUTHRAUFF RD	110+99	53 R	C	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
37	RUTHRAUFF RD	111+77	62 L	C	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
38	RUTHRAUFF RD	112+49	60 R	C	3	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
39	RUTHRAUFF RD	113+27	58 L	C	1	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
40	RUTHRAUFF RD	117+06	59 R	C	4	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445
41	RUTHRAUFF RD	117+68	64 L	C	2	PCDOT TYPE '2A'	35 FT	PC STD T445	SINGLE 15 X 15	LED	1	165W	TYPE III	AUTOBAHN ATB2-60BLEDE85-480-R3	PCDOT DETAIL T 445

\* CONTRACTOR SHALL INSTALL BREAKAWAY BASE PER ADOT STANDARD DETAIL T.S. 5-1 MODIFIED TO FIT PCDOT STANDARD POLE TYPE 2A.

DESIGN	M. COLOMBO	DATE	5-19
DRAWN	D. AHMED	DATE	5-19
CHECKED	P. SYNTAX	DATE	5-19

**Kimley»Horn**  
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.

ROUTE: I-10 LOCATION: RUTHRAUFF TI

TRACS NO. H8480 OIC

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

RUTHRAUFF ROAD  
POLE SCHEDULE

DWG NO. T-14.23

50368  
MICHAEL A. COLOMBO  
Professional Engineer  
Arizona, U.S.A.

010-D(213)S OF