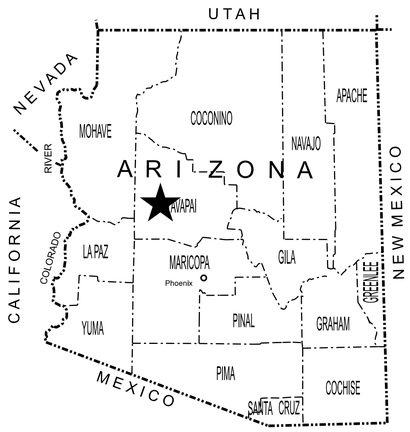
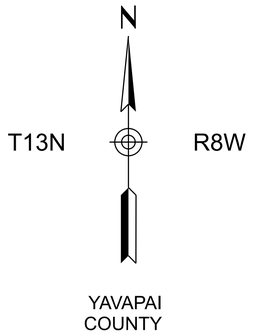


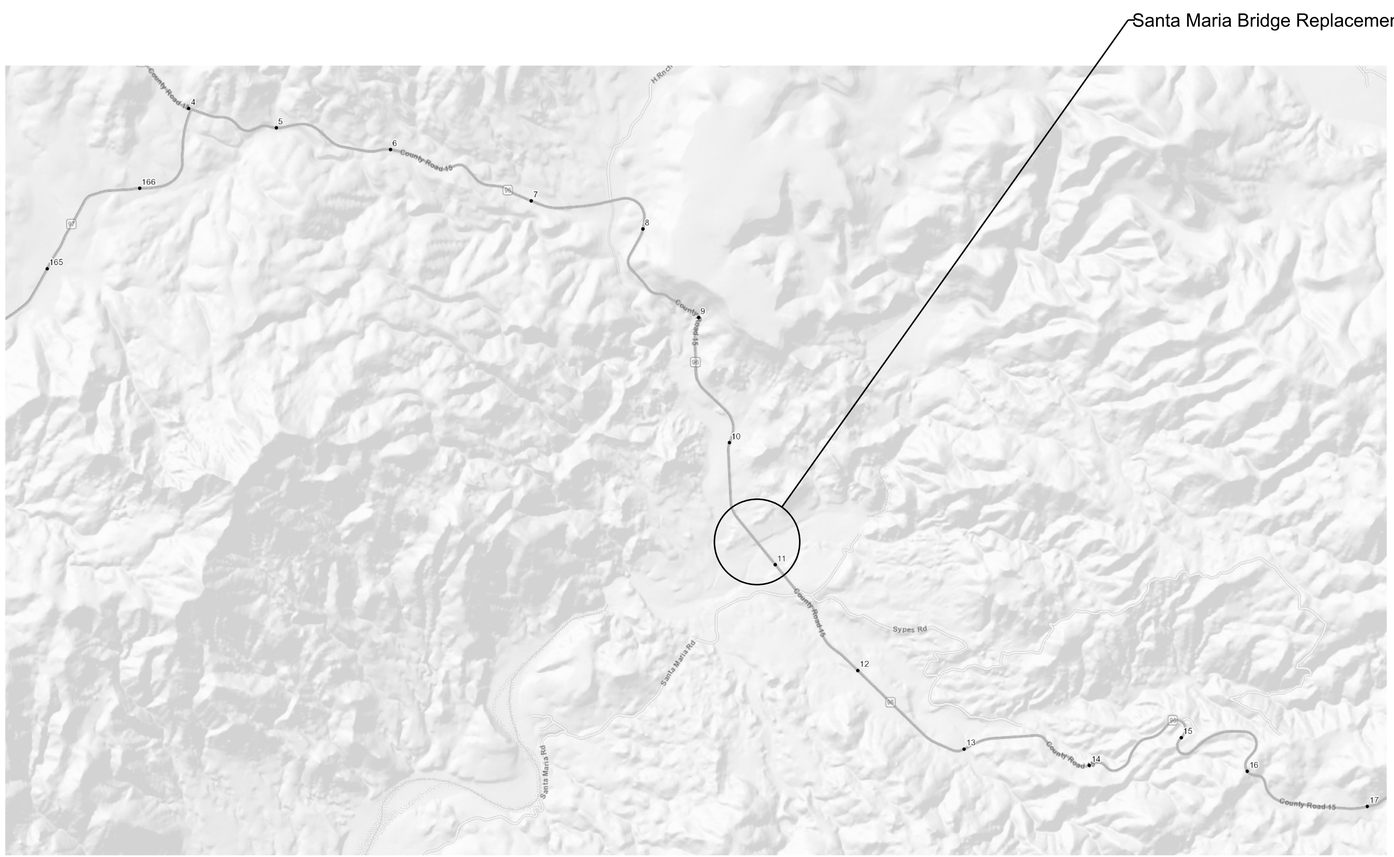
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

STATE HIGHWAY
BAGDAD–HILLSIDE HWY
SR 96

ARIZONA DEPARTMENT OF TRANSPORTATION





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

SANTA MARIA RIVER BRIDGE

PROJECT NO. 096 YV 010 F0584 01C
FEDERAL AID NO. 096-A(200)T

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
AUDRA MERRICK, P.E., STATE ENGINEER

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

ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE MARCH 2025

DATE	STANDARD	SUBJECT TITLE
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	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
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
8/21	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	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
4/19	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/19	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/21	C-10.23 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
4/21	C-10.23 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
3/25	C-10.24 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
3/25	C-10.24 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
11/19	C-10.26 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
11/19	C-10.26 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
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
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"
4/19	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
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPE 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
8/23	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

ADOT STANDARD DRAWINGS
REVISION DATES and STANDARD NO.'s REVIEW

	NAME	DATE
CONSTRUCTION STANDARDS	E. EGGEN	11/2025

PROJECT NO. 096 YV 010 F0584 01C — 1A OF 100

RECORD DRAWING DATA | FEDERAL ID NO. 096-A(200)T | REC. DWG. DATE | OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
1/20	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE AND 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
5/25	M-10 SHT 3	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
8/20	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
8/20	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
8/20	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
8/20	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
8/20	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
8/20	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
11/24	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	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
8/20	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
8/20	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS
6/24	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
10/23	M-19 SHT 11	LEAD-LAG CONTRAST PAVEMENT MARKINGS FOR CONCRETE PAVEMENT
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
9/21	M-22 SHT 1	LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
9/21	M-22 SHT 2	LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS
9/21	M-22 SHT 3	ENTRANCE AND EXIT RAMPS RUMBLE STRIP INSTALLATION DETAILS
3/22	M-22 SHT 4	CENTERLINE RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS
6/14	M-23	OBJECT MARKER DETAILS
6/14	M-24	OBJECT MARKER PLACEMENT DETAILS
2/21	M-26 SHT 1	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 2	DELINEATOR PLACEMENT AND SPACING
2/21	M-26 SHT 3	FLEXIBLE DELINEATOR ASSEMBLIES
2/21	M-26 SHT 4	SQUARE STEEL POST DELINEATOR
2/21	M-26 SHT 5	DELINEATOR FOUNDATION DETAILS
2/21	M-27 SHT 1	DELINEATION DETAILS FOR MEDIAN CROSSOVERS
2/21	M-27 SHT 2	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 AND 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

	NAME	DATE
SIGNING & MARKING STANDARDS	R. GALASKA	03/26

PROJECT NO. 096 YV 010 F0584 01C

1B-1 OF 100

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	OF
	096-A(200)T		

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND 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
6/22	S-5	W SHAPE BREAKAWAY POST DETAILS
6/22	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
8/22	S-9 SHT 1	SIGN INSTALLATION ON POLE
8/22	S-9 SHT 2	SIGNS (BACK TO BACK) INSTALLATION ON POLE
8/22	S-9 SHT 3	SIGN INSTALLATION ON SIGNAL POLE
8/22	S-9 SHT 4	SIGN INSTALLATION ON POLE BAND-TYPE CLAMP
6/14	S-10	MILEPOST AND REFERENCE LOCATION SIGNS
11/22	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
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
7/19	S-18 SHT 1	ALUMINUM GRAFFITI SHIELD EXIT AND GUIDE SIGN ASSEMBLY
7/19	S-18 SHT 2	ALUMINUM GRAFFITI SHIELD RIGHT RIDER SIDE PANEL
7/19	S-18 SHT 3	ALUMINUM GRAFFITI SHIELD LEFT RIDER SIDE PANEL
7/19	S-18 SHT 4	ALUMINUM GRAFFITI SHIELD CORNER
7/19	S-18 SHT 5	ALUMINUM GRAFFITI SHIELD SPLICE PLATE
7/19	S-18 SHT 6	ALUMINUM GRAFFITI SHIELD FIN
7/19	S-18 SHT 7	ALUMINUM GRAFFITI SHIELD TOP PANEL
7/19	S-18 SHT 8	ALUMINUM GRAFFITI SHIELD SIDE PANEL
7/19	S-18 SHT 9	ALUMINUM GRAFFITI SHIELD RIGHT TRANSITION FROM RIDER
7/19	S-18 SHT 10	ALUMINUM GRAFFITI SHIELD LEFT TRANSITION FROM RIDER
7/19	S-18 SHT 11	ALUMINUM GRAFFITI SHIELD SPLICE PLATE FOR FIN
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

	NAME	DATE
SIGNING & MARKING STANDARDS	R. GALASKA	03/26

PROJECT NO.			
096 YV 010 F0584 01C	1B-2	OF	100

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	
	096-A(200)T		OF

ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE NOVEMBER 2024

DATE	STANDARD	SUBJECT TITLE
RAILINGS		
09/24	SD 1.10 (1 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
09/24	SD 1.10 (2 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (1 OF 1)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (2 OF 2)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/23	SD 1.12	COMBINATION PEDESTIAN-TRAFFIC BRIDGE RAILING
01/20	SD 1.13	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.12
01/20	SD 1.20	32' TYPE F ROADWAY BARRIER TRANSITION TO 38' SINGLE SLOPE BARRIER
01/20	SD 1.21	32' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.22	42' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.30	BARRIER JUNCTION BOX
APPROACHES		
08/23	SD 2.01	APPROACH SLAB DETAILS
08/23	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
08/23	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
08/23	SD 2.04	SLOPE PAVING DETAILS
DECK JOINTS		
02/20	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
02/20	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
02/20	SD 3.03 (1 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
02/20	SD 3.03 (2 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
SUBSTRUCTURE		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
DRAINAGE STRUCTURES		
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)
10/24	SD 6.20 (1 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL NOTES & DIMENSIONS
10/24	SD 6.20 (2 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 1
10/24	SD 6.20 (3 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - END SECTION & CONNECTION DETAILS
10/24	SD 6.20 (4 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 2
10/24	SD 6.20 (5 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 3
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

DATE	STANDARD	SUBJECT TITLE
DRAINAGE STRUCTURES (Continued)		
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
RETAINING WALLS		
10/24	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
12/21	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
06/22	SD 8.01	SOUND BARRIER WALL (CONCRETE)
06/22	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
06/22	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
04/19	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
03/22	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
03/22	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
09/23	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
09/23	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
09/23	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
09/23	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
05/22	SD 9.60 (1 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - GENERAL PLAN AND ELEVATION
05/22	SD 9.60 (2 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - FOUNDATION DETAILS
05/22	SD 9.60 (3 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MONOTUBE ASSEMBLY
05/22	SD 9.60 (4 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MAST ARM DETAILS
05/22	SD 9.60 (5 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - MISCELLANEOUS DETAIL
05/22	SD 9.60 (6 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK ASSEMBLY AND HANDRAIL
05/22	SD 9.60 (7 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK DETAILS

ADOT STANDARD DRAWINGS
REVISION DATES and STANDARD NO.'s REVIEW

	NAME	DATE
STRUCTURES STANDARDS	L. Liao	3/26

PROJECT NO. 096 YV 010 F0584 01C		1D OF 100	
RECORD DRAWING DATA	FEDERAL ID NO. 096-A(200)T	REC. DWG. DATE -------	----- OF -----

1. SPILL PREVENTION, CONTROL, AND COUNTERMEASURES – CWA SECTION 311

If total above-ground storage capacity, including mobile re-fuelers stationed on-site, is greater than 1,320 gallons of oil (oils, greases, fuel, asphalt, and asphalt derivatives), where a spill has the potential to reach Waters of the US, the Contractor shall prepare a SPCC plan per contract specifications in Section 104.16 (C) of the Standard Specifications.

2. SURFACE WATER POLLUTION PREVENTION – CWA SECTION 402

☑ Arizona Pollutant Discharge Elimination System (AZPDES) CGP coverage applies (104SWDEQ needed)

3. WORK IN WATERS OF THE UNITED STATES – CWA SECTION 404/401

US Army Corps of Engineers (USACE) permit required for filling, dredging, excavating in Waters of the US (WOTUS). **The contractor shall adhere to all of the terms and conditions associated with the permit.** See specific terms and conditions in permit attached to contract Special Provisions [Subsection 104.16(D)].

☑ Regional General Permit 96, without attachments

Section 401 Water Quality Certification

Arizona Department of Environmental Quality

4. BIOLOGY PROGRAM – ESA SECTION 7; MBTA, ARIZONA REVISED STATUTES TITLE 17

BIO-1: Environmental Awareness, Monitoring and Avoidance ☑ N/A

BIO-2: Migratory Bird Treaty Act (MBTA) ☐ N/A

The contractor shall avoid nests with relocation directions.

BIO-2C: MBTA - Section 404 Regional General Permit; see Section 104.16 BIO-2C of the specifications for breeding and non-breeding season dates.

If construction occurs during the migratory bird breeding season: March 1 to August 31 refer to Section 104.16 BIO-2 of the specifications for direction.

BIO-2D: MBTA – Active Cliff Swallow Nests ☐ N/A

If construction occurs during cliff swallow breeding season: February 1 to August 31 refer to Section 104.16 BIO-2D of the specifications for direction.

BIO-3: Burrowing Owls ☑ N/A

BIO-4: Bats ☑ N/A

BIO-5: Sonoran Desert Tortoise ☐ No ☒ Yes

5. VEGETATION PROTECTION PROGRAM – CWA SECTION 402, EO 13122

General (applies to all projects); The contractor shall comply with the requirements specified in Section 104.16 (F) of the Special Provisions and Section 104.16 (B) of the Standard Specifications.

☑ Noxious Species Control Plan (NSCP) required

6. CULTURAL RESOURCES PROGRAM

☑ No Cultural Resources Program Action Required; See Std. Spec. 107.05 and 107.06 for General Requirements

7. HAZARDOUS MATERIALS PROGRAM

General (applies to all projects); See Std. Spec. 107.07 for General Requirements.

☐ No Hazardous Materials Program Action Required

Is Asbestos present? ☑ No ☐ Yes

Is a NESHAP notice required? ☐ No ☒ Yes

If yes, coordination with the ADOT Hazardous Materials Specialist is required and the NESHAP notification shall be submitted at least ten (10) business days prior to initiation of construction activities to: Arizona Department of Environmental Quality Air Quality Division

Is Lead-based paint present? ☐ No ☒ Yes

Is a Lead Based Paint Abatement Plan needed? ☒ No ☐ Yes ☐ Other

Refer to Section 10 of the EPIC Sheet for Lead Based Paint information and contact ADOT Hazardous Materials Specialist.

8. NOISE PROGRAM

☑ No Noise Program Specific Project Action Required; See Std. Spec. 104.08 for General Requirements

9. AIR QUALITY PROGRAM

☑ No Air Quality Program Action Required; See Std. Spec. 104.08 for General Requirements

10. OTHER ENVIRONMENTAL ISSUES

Project Specific Environmental Commitments: ☐ N/A

- The contractor shall not utilize any abrasive tools or methods for the removal of the cattle guards that would disturb the lead-based paint. This includes, but is not limited to, sawing, grinding, sanding, or heating. Woven straps (not linked chains) may be used to lift the cattle guard grate from the frame.
- The contractor shall complete a National Standards for Hazardous Air Pollutants (NESHAP) notification for the work associated with Santa Maria River Bridge (Structure No. 225) and submit to the Engineer, who shall submit it to the Arizona Department of Transportation environmental planning hazardous material coordinator (602.920.3882 or 602.712.7767) for a five (5) working day review and approval. Upon approval, the contractor shall file the notification with Arizona Department of Environmental Quality at least ten (10) working days prior to the commencement of work.
- The contractor shall comply with all terms and conditions of the attached Clean Water Act Section 404/401 permit and certification.
- The contractor shall not cause injury or death to protected migratory birds, including eggs and nestlings. If demolition activities for the Santa Maria River Bridge Structure #225 will occur during nesting season (Mar 1-Aug 31), the contractor shall adhere to the following:
    - The contractor shall hire a qualified biologist to conduct a migratory bird nest search of the existing Santa Maria River Bridge Structure #225 and vegetation to be impacted by bridge demolition activities. The resume for the selected biologist shall be approved by the Engineer in coordination with the Arizona Department of Transportation Environmental Planning Biologist (928.304.0487) prior to conducting the survey.
    - Within 14 (fourteen) days prior to demolition work, the qualified biologist shall conduct a migratory bird nest search of the existing bridge and all vegetation to be impacted by bridge demolition. The contractor shall completely remove all inactive bird nests, including a large stick nest on the bridge truss, discovered prior to bridge demolition.
    - No demolition activities shall take place on the bridge structure until the qualified biologist has conducted active bird nest surveys and confirmed there are no active bird nests.
    - If the Engineer in cooperation with the ADOT Environmental Planning Biologist determines that active bird nests cannot be avoided, the contractor shall employ a qualified biologist holding a permit from the US Fish & amp; Wildlife Service to relocate protected migratory birds from the project area, as appropriate.

Arizona Department of Transportation Environmental Planning Standard Template			
Environmental, Permits, Issues, And Commitments (EPIC) Sheet			
Environmental Planner Name	Cindy Robles	**R.E. Name**	
Environmental Planning Date of Completion	4/22/2025	**R.E. Signature**	
FEDERAL ID NO.	096-A(200)T		
PROJECT NO.	096 YV 010 F0584 01C	With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed.	
REC DWG DATE: _____ **OF** _____		**1F OF 100**	**Sheet 1F**

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
N = 355000
E = 269000

REFERENCES

H3248, H4947

DESIGN DATA

2025 AADT = 465
2045 AADT= 512
Design Speed = 50 MPH
Detour Design Speed = 15 MPH

LENGTH OF PROJECT

SR 96 Survey CL
MP 10.29 to 11.23
Sta 13+10.00 to 26+22.06 = 1312.06'
Sta 26+22.06 to 30+26.56 = 404.50' (New Bridge)
Sta 30+26.56 to 45+40.00 = 1493.44'
Gross Length = 3230.00 - 0.612 Miles

INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A,1B-1,1B-2,1D	ADOT Standard Drawings
1F	EPIC Sheet
2-4	Design Sheets, Index, & Sections
5	Barrier Summary Sheet
6	New Pipe Summary Sheet
7-12	Detail Sheets
13	Geometry Sheet
14-25	Plan & Profile Sheets
26-28	Construction Sequencing Sheets
29-31	Temporary Widening Sheets
32-50	Traffic Control Sheets
51	Pavement Marking and Signing Sheet
52-77	Bridge Sheets
78-86	Foundation Data Sheets
87-100	Erosion Control Sheets

GENERAL NOTES

The roadway plans have been designed utilizing the Construction Standard Drawings (C- Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

For Right- of- Way information not shown, see Right of Way Project No. 096-A(200)T.

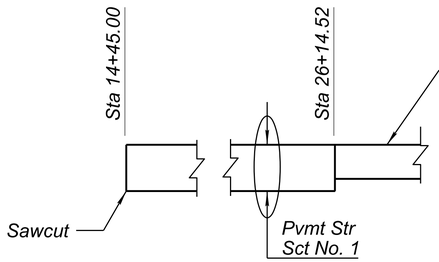
Pavement lift thickness is nominal.

Delineators, object markers and mile post markers shall be removed and reset as required at no additional cost to The Department.

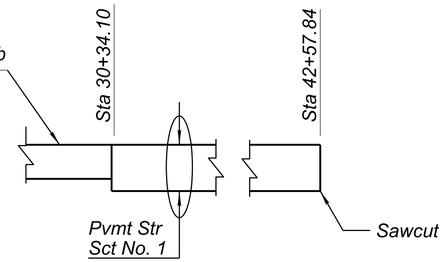
The average project elevation is 2285 ft.

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

The alignment and survey is based on survey LS1432 and will be available prior to construction upon request. To request alignment and survey data please contact ADOT Survey Manager.

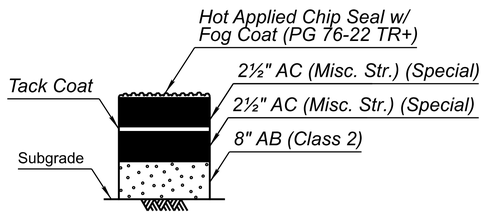


TREATMENT AT BEGINNING OF SANTA MARIA BRIDGE



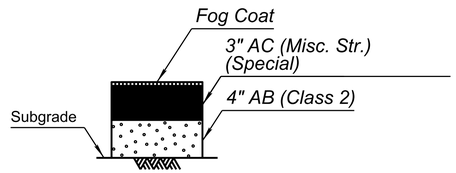
TREATMENT AT END OF SANTA MARIA BRIDGE

Sta 14+45.00 to 26+14.52
Sta 30+34.10 to 42+57.84



Total Thickness = 13"
Travel Lanes and Shoulders

SECTION NO. 1



Total Thickness = 7"
Turnouts
Temporary Widening

SECTION NO. 2

EARTHWORK FACTORS

Station	Shrink/Swell	Ground Compaction
13+10.00 to 26+14.52	5% Swell	0.1'
30+34.10 to 44+10.00	15% Swell	0.1'

EARTHWORK TABLE (CY)

	TOTALS		ROADWAY SEQ. 1[2]		ROADWAY SEQ. 2[2]		ROADWAY SEQ. 3[2]	
	CUT	FILL	CUT	FILL	CUT	FILL	CUT	FILL
Roadway Excavation[4] (SR 96)	31,629 CY				22,746 CY		8,883 CY	
Roadway Excavation[4] (Temp Wideing)	3,041 CY		3,041 CY					
Structual Excavation	960 CY				960 CY			
Swell	2,564 CY		354 CY		801 CY		1,409 CY	
Structual Backfill[3]		400 CY				400 CY		
Embankment[1] (SR 96)		13,741 CY				13,667 CY		74 CY
Embankment[1] (Detour)		3,432 CY		3,432 CY				
Borrow (In Place)			37 CY					
Waste		20,258 CY				10,040 CY		10,218 CY

[1] Embankment Quantities Include Ground Compaction
[2] See Construction Phasing Sheets for roadway sequence limits
[3] Structural backfill material is assumed to be imported
[4] Excavation quantities include existing asphalt and aggregate base where present

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer — 53396 — ERICA RAE EGGEN — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DESIGN SHEET & INDEX

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

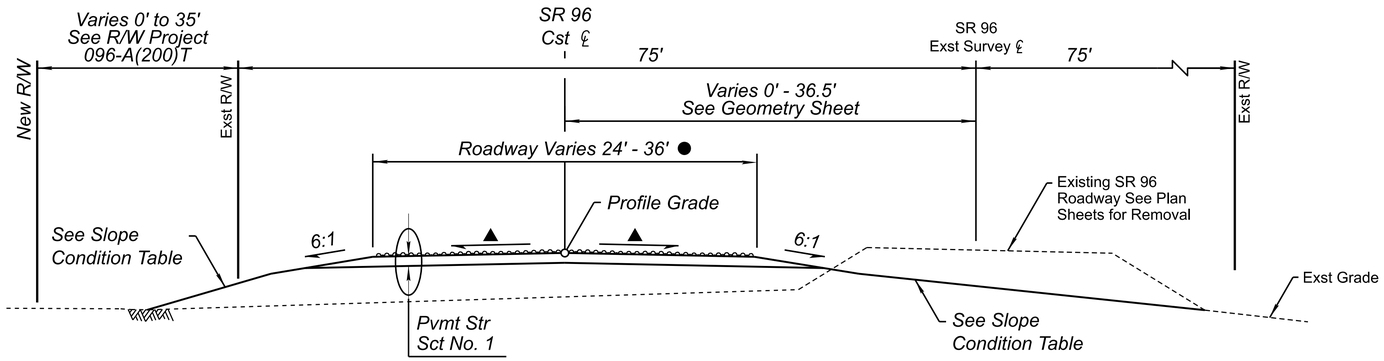
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	2	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 1 OF 3

____ OF____

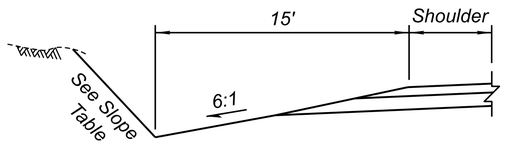


TYPICAL SECTION (N.T.S.)

SR 96 Main Line
Sta 14+45.00 to 26+14.52
Sta 30+34.10 to 42+57.84

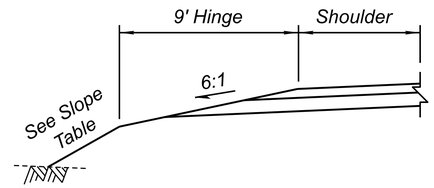
● *See Plan Sheets for Roadway Width*
▲ *See Profile Sheets for Super Elevation*

SLOPE CONDITION TABLE					
ROUTE	SIDE	STATION RANGE			Slope Condition
SR 96 Cst ℄	Lt	14+45	TO	17+40	View A 1:1 Cut
SR 96 Cst ℄	Lt	17+40	TO	21+00	View B 4:1 Fill
SR 96 Cst ℄	Lt	21+00	TO	26+20	View B 2:1 Fill
SR 96 Cst ℄	Lt	26+20	TO	30+30	N/A - Bridge
SR 96 Cst ℄	Lt	30+30	TO	31+20	View B 2:1 Fill
SR 96 Cst ℄	Lt	31+20	TO	32+20	View A 4:1 Cut
SR 96 Cst ℄	Lt	32+20	TO	33+00	N/A - Turnout
SR 96 Cst ℄	Lt	33+00	TO	34+60	View A 4:1 Cut
SR 96 Cst ℄	Lt	34+60	TO	41+00	View A 1:1 Cut
SR 96 Cst ℄	Lt	41+00	TO	42+60	View B 2:1 Fill
SR 96 Cst ℄	Rt	14+45	TO	17+40	View C (Tie to Temp Cut)
SR 96 Cst ℄	Rt	17+40	TO	19+30	View E (Tie to Temp Fill)
SR 96 Cst ℄	Rt	19+30	TO	20+30	View B 3:1 Fill
SR 96 Cst ℄	Rt	20+30	TO	26+20	View D (Tie to Exst Fill)
SR 96 Cst ℄	Rt	26+20	TO	30+30	N/A - Bridge
SR 96 Cst ℄	Rt	30+30	TO	32+80	View C (Tie to Exst Cut)
SR 96 Cst ℄	Rt	32+80	TO	33+60	N/A - Turnout
SR 96 Cst ℄	Rt	33+60	TO	39+00	View C (Tie to Exst Cut)
SR 96 Cst ℄	Rt	39+00	TO	40+50	View C (Tie to Temp Cut)
SR 96 Cst ℄	Rt	40+50	TO	42+60	View E (Tie to Temp Fill)



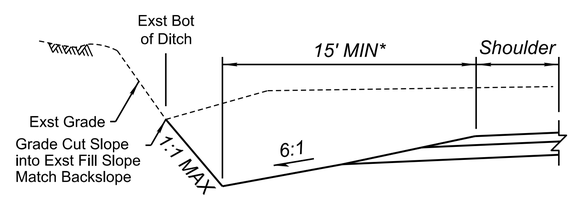
VIEW A: CONSTRUCT NEW CUT DITCH

See Std C-2.20 for any details not shown



VIEW B: CONSTRUCT FILL SLOPE

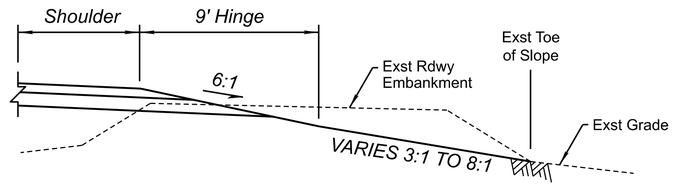
See Std C-2.20 for any details not shown



VIEW C: CONSTRUCT MODIFIED CUT DITCH

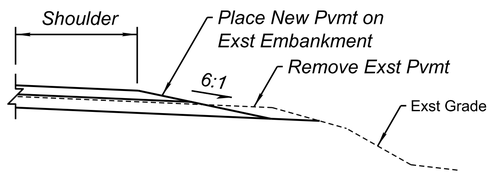
See Std C-2.20 for any details not shown

* *For Sta 37+40 to 39+00 Rt, Cut Ditch shall be 9' minimum with a minimum depth of 1.5', tie to existing cut ditch.*



VIEW D: CONSTRUCT FILL SLOPE

See Std C-2.20 for any details not shown



VIEW E: PLACE ON EXST EMBANKMENT

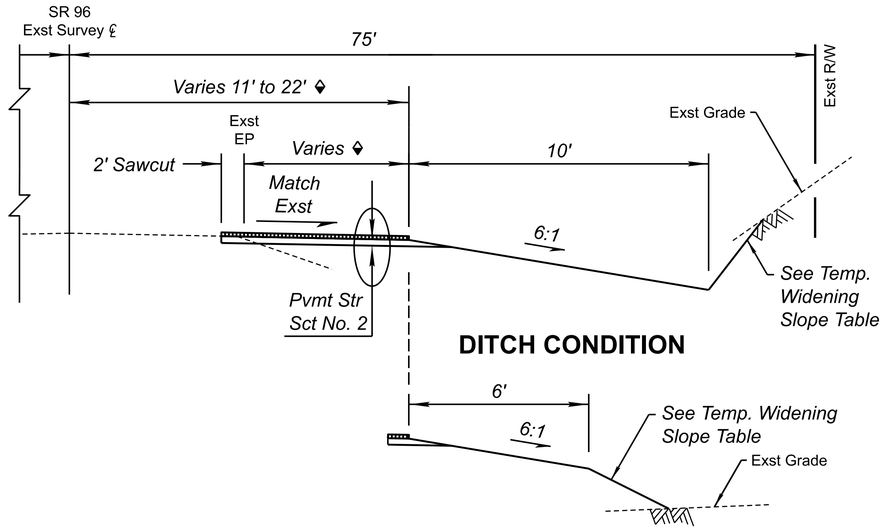
See Std C-2.20 for any details not shown

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DESIGN SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	3	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE						SHEET 2 OF 3
STRUCTURE NO.	TRACS NO. F0584 01C						___ OF ___



DITCH CONDITION

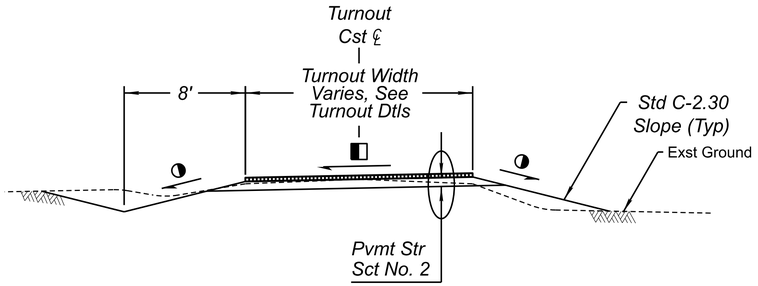
FILL CONDITION

TYPICAL SECTION (N.T.S.)

Temporary Widening
Sta 13+10.00 to 19+95.00
Sta 39+00.00 to 44+10.00

⧫ *See Detour Widening Plan Sheets for Widening Width*
Note: See Plan Sheets for Removal

SLOPE CONDITION TABLE - TEMPORARY WIDENING					
ROUTE	*SIDE*	*STATION RANGE*			*Slope Condition*
SR 96 Survey ℄	*Rt*	*13+10*	*TO*	*17+40*	*1:1 Cut Ditch*
SR 96 Survey ℄	*Rt*	*17+40*	*TO*	*19+95*	*3:1 Fill*
SR 96 Survey ℄	*Rt*	*39+00*	*TO*	*40+20*	*1:1 Cut Ditch*
SR 96 Survey ℄	*Rt*	*40+20*	*TO*	*44+10*	*2:1 Fill*



TYPICAL SECTION (N.T.S)

Turnouts

◧ *See Turnout Cross Slope Table*
◑ *See Detail E for Turnout Slopes.*

Turnout Cross Slopes

Turnout T01	**Rt**	**Lt**
Sta 20+16	*3.2% (Match Rdwy)*	*3.2% (Match Rdwy)*
Sta 20+16 to 20+46	*Varies 3.2% to 2.9%*	*Varies 3.2% to 2.9%*
Sta 20+46	*2.9% (Match Exst CG)*	*2.9% (Match Exst CG)*

Turnout T02	**Rt**	**Lt**
Sta 20+16 to 20+32	*-4.4% (Match Rdwy)*	*-4.4% (Match Rdwy)*
Sta 20+32 to 21+00	*Varies -4.4% to -2.0%*	*Varies -4.4% to 2.0%*
Sta 21+00	*-2.0%*	*2.0%*

Professional Engineer — CERTIFICATE 53396 — ERICA RAE EGGEN — Date Signed 3-26-25 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DESIGN SHEET

ROUTE SR 96
MILEPOST
STRUCTURE NO.

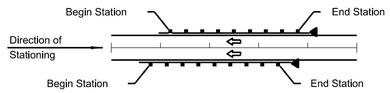
F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 4 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE

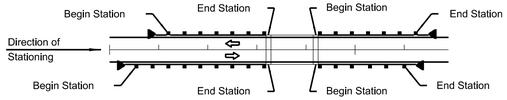
TRACS NO. F0584 01C

SHEET 3 OF 3
___ OF ___

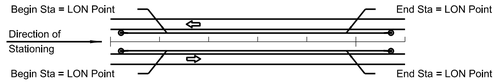
ONE-WAY ROADWAY



TWO-WAY ROADWAY WITH STRUCTURE ◒



DIVIDED ROADWAY WITH HIGH TENSION MEDIAN CABLE BARRIER



| LOCATION | | | | | | BARRIER | | | | | |

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

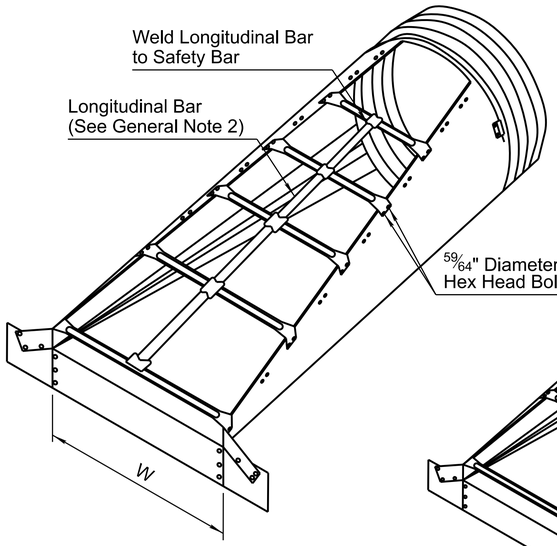
NOTE:
FOR PIPE CULVERT PLACEMENT SEE STANDARD DRAWINGS C-13.10 AND C-13.15

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.

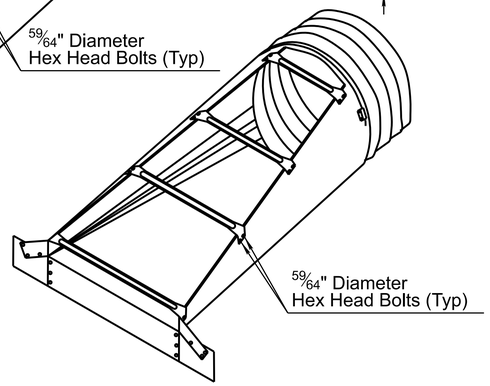
CSP - CORRUGATED STEEL PIPE
CAP - CORRUGATED ALUMINUM PIPE
RCP - REINFORCED CONCRETE PIPE
NRCP - NON-REINFORCED CONCRETE PIPE
NRCIPCP - NON-REINFORCED CAST-IN-PLACE CONCRETE PIPE
CHDPEP - CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE
CPPP - CORRUGATED POLYPROPYLENE PIPE

DESCRIPTION								CSP								CAP				RCP			NRCP	NRCIPCP	CHDPEP	CPPP	END TREATMENT																	QUANTITIES	
			In.	In.	Ft.	Degree		In.	Coating							In.							In.				Each	Catch Basin, Manhole, Headwall & Junction Structure																Cubic Yard	
Station	Plan Reference Number	Controlling Fill Height Range	Size, Corrugated	Size, Smooth	Length (0)	Skew (0)	Corrugation	Wall Thickness (0.000)	Zinc	Bituminous Coated Zinc	Aluminum	Bituminous Coated Aluminum	Corrugation	Wall Thickness (0.000)	Uncoated	Bituminous Coated	Class - Non-Trench	Class - Trench	Class	Minimum Wall Thickness (0)	AASHTO M-294 Type S	AASHTO M-330 Type S	C-13.20 & C-13.25	Detail A	Size, (In) Manhole	Standard or Detail	End Section	Ea	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drain (0)	L 24" Slotted Drain (0)	Type	Elevation (0.00)	Ft. Grate	Ft. Depth	In. L (0.0)	Inlet Depression C-15.70	Pipe Excavation (0)	Pipe Backfill (0) C-13.15	Drainage Excavation (0)	Berm/Dike Embankment (0)	REMARKS
T01 Sta 20+33	1	3	28"x20"		69	0.0	A	0.064			X		A	0.060	X			III	3		X	X		2																	27			Dtl D01, Dtl A, Dtl B

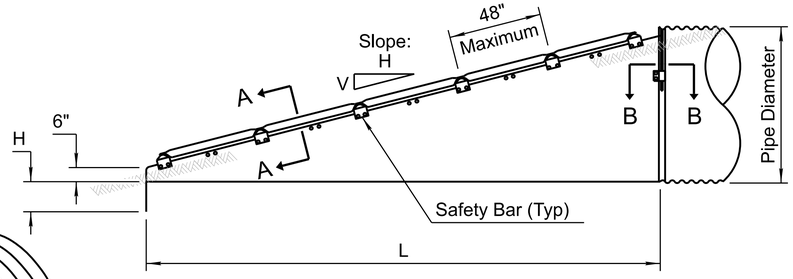
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	096-A(200)T	7	100	
		096 YV 010			



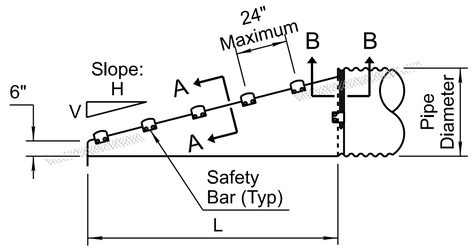
CROSS-DRAINAGE TYPE END SECTION



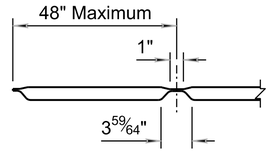
PARALLEL-DRAINAGE TYPE END SECTION



SIDE VIEW-CROSS DRAINAGE TYPE



SIDE VIEW-PARALLEL DRAINAGE TYPE



LONGITUDINAL BAR DETAIL

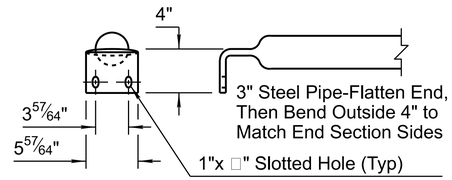
GENERAL NOTES

1. The size, slope and type of end section, shall be shown on the plans.
2. A longitudinal bar is required for cross-drainage end sections when the span (W) is greater than 30". Additional longitudinal bars shall be required if spacing exceeds 30" on larger end sections.
3. Safety and longitudinal bars are not required on 30" and smaller cross-drainage end sections.

● - Top of Sloped End Section

■ - These Sizes Are Not Normally Used for Culverts by ADOT

▲ - Headwalls Are Normally Required for Pipe Sizes 48" and Larger



SAFETY BAR DETAIL

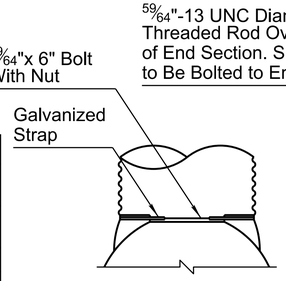
METAL END SECTION FOR CIRCULAR PIPES

Pipe Diameter (In)	Minimum Thickness		Dimensions (In)			L Dimensions						
	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V	Length (In)
15 ■	.064	16	8	6	21	37	4:1	20	6:1	30	10:1	70
18 ■	.064	16	8	6	24	40	4:1	32	6:1	48	10:1	100
21 ■	.064	16	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	16	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	12	16	12	48	80	4:1	128	6:1	192	-	-
48 ▲	.109	12	16	12	54	86	4:1	152	6:1	228	-	-
54 ▲	.109	12	16	12	60	92	4:1	176	6:1	264	-	-
60 ▲	.109	12	16	12	66	98	4:1	200	6:1	300	-	-

◪ Minimum Thickness For All 10:1 Slope End Sections is 12 Guage

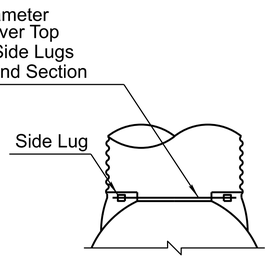
METAL END SECTION FOR ARCHED PIPES

Equivalent Diameter (In)	(Inches)		Minimum Thickness		Dimensions (In)				L Dimensions					
	Span	Rise	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V	Length (In)
18 ■	21	15	.064	16	8	6	27	43	4:1	20	6:1	30	10:1	70
21 ■	24	18	.064	16	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064	16	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138	-	-
48 ▲	57	38	.109	12	16	12	63	95	4:1	112	6:1	168	-	-
54 ▲	64	43	.109	12	16	12	70	102	4:1	132	6:1	198	-	-
60 ▲	71	47	.109	12	16	12	77	109	4:1	149	6:1	222	-	-
72 ▲	83	57	.109	12	16	12	89	121	4:1	188	6:1	282	-	-



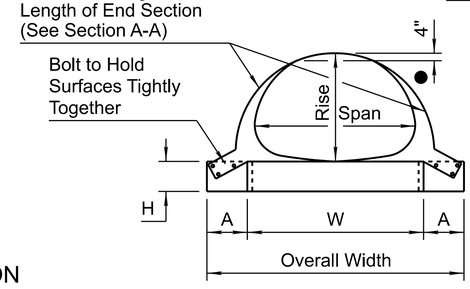
Circular Pipes 15-24"

TYPE 1 CONNECTION

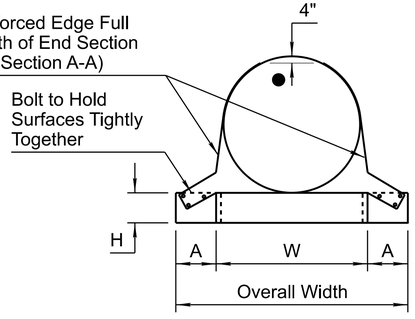


For 30" Diameter and Larger Circular Pipes, and All Arched Pipes

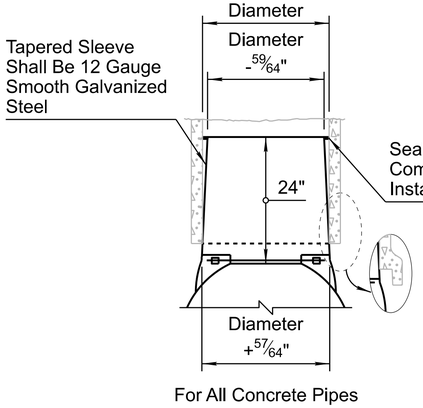
TYPE 2 CONNECTION



FRONT VIEW-ARCHED PIPE

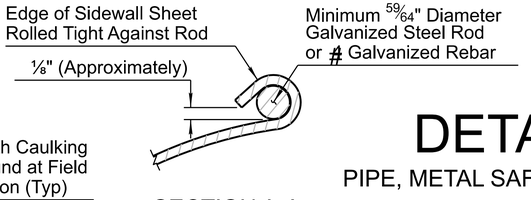


FRONT VIEW-ROUND PIPE

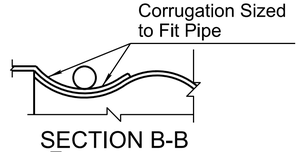


For All Concrete Pipes

TYPE 3 CONNECTION



SECTION A-A

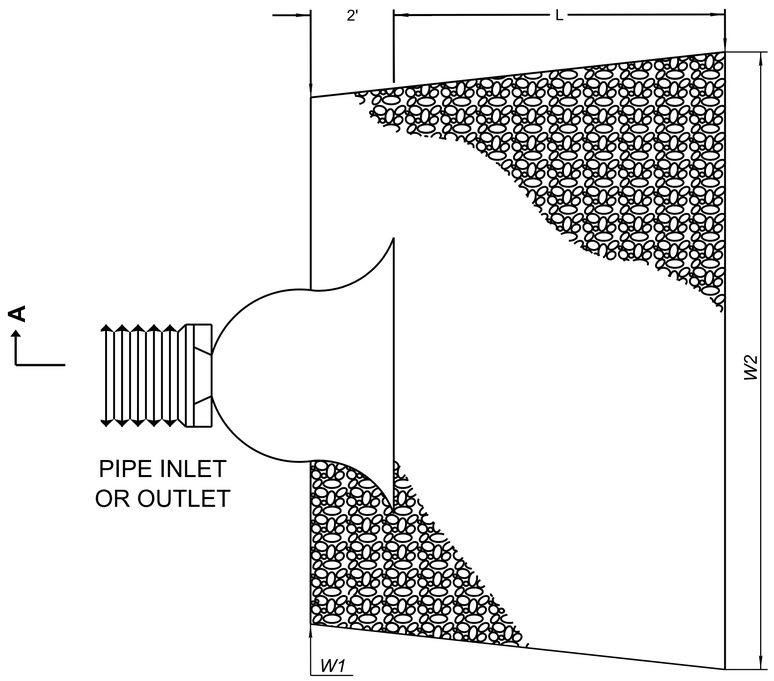


SECTION B-B

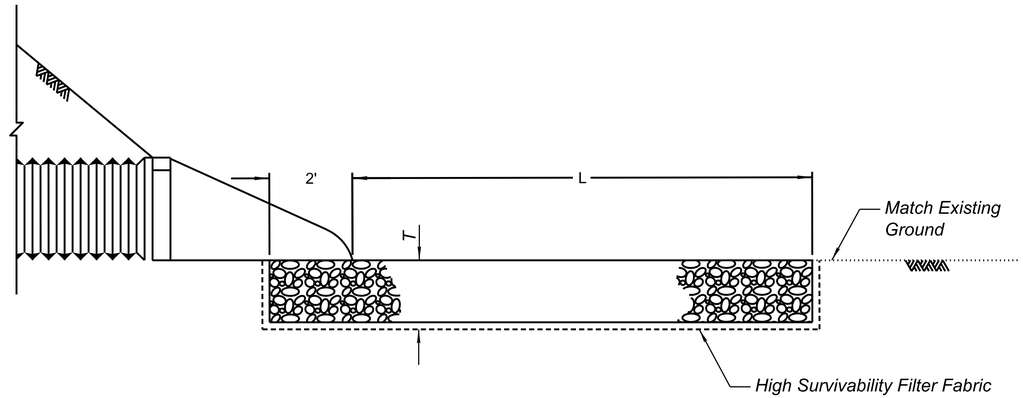
DETAIL A

PIPE, METAL SAFETY END SECTION

DESIGN APPROVED: Kenneth R. Cooper	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY GROUP PLANS DETAIL
APPROVED FOR DISTRIBUTION: J. C. Cooper	Detail A
ROUTE: SR 96 / LOCATION: SANTA MARIA RIVER BRIDGE	SHEET 1 OF 1
TRACS NO. F0584 01C	OF



PLAN VIEW



SECTION A-A

DRAINAGE IMPROVEMENTS									
Route	**Station**	**Side**	**CMP**	**D50 (in)**	**Thickness (in)**	**W1**	**W2**	**L'**	**Riprap Volume (CY)**
T01	20+33	Inlet	28"x20"	6	20	7'	13'	10	7
T01	20+33	Outlet	28"x20"	6	20	7'	13'	10	7
									14

DETAIL B

RIPRAP APRON

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL B

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 8 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

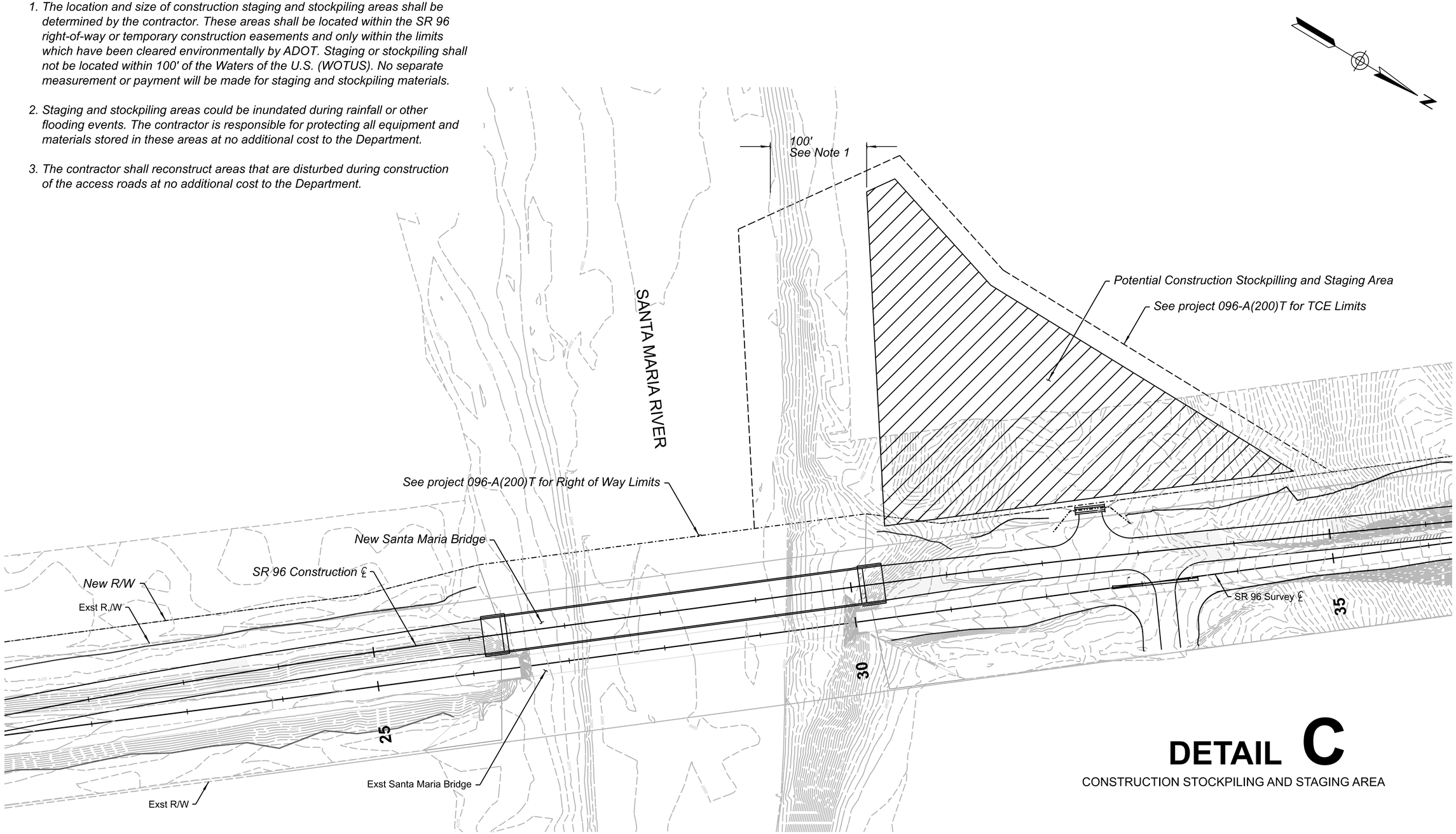
SHEET 1 OF 1

___ OF ___

1. *The location and size of construction staging and stockpiling areas shall be determined by the contractor. These areas shall be located within the SR 96 right-of-way or temporary construction easements and only within the limits which have been cleared environmentally by ADOT. Staging or stockpiling shall not be located within 100' of the Waters of the U.S. (WOTUS). No separate measurement or payment will be made for staging and stockpiling materials.*

2. *Staging and stockpiling areas could be inundated during rainfall or other flooding events. The contractor is responsible for protecting all equipment and materials stored in these areas at no additional cost to the Department.*

3. *The contractor shall reconstruct areas that are disturbed during construction of the access roads at no additional cost to the Department.*



DETAIL C

CONSTRUCTION STOCKPILING AND STAGING AREA

Professional Engineer — Certificate 53396 — ERICA RAE EGGEN — Date Signed 3-26-26 — Not Valid Without Signature — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL SHEET

ROUTE SR 96
MILEPOST
STRUCTURE NO.

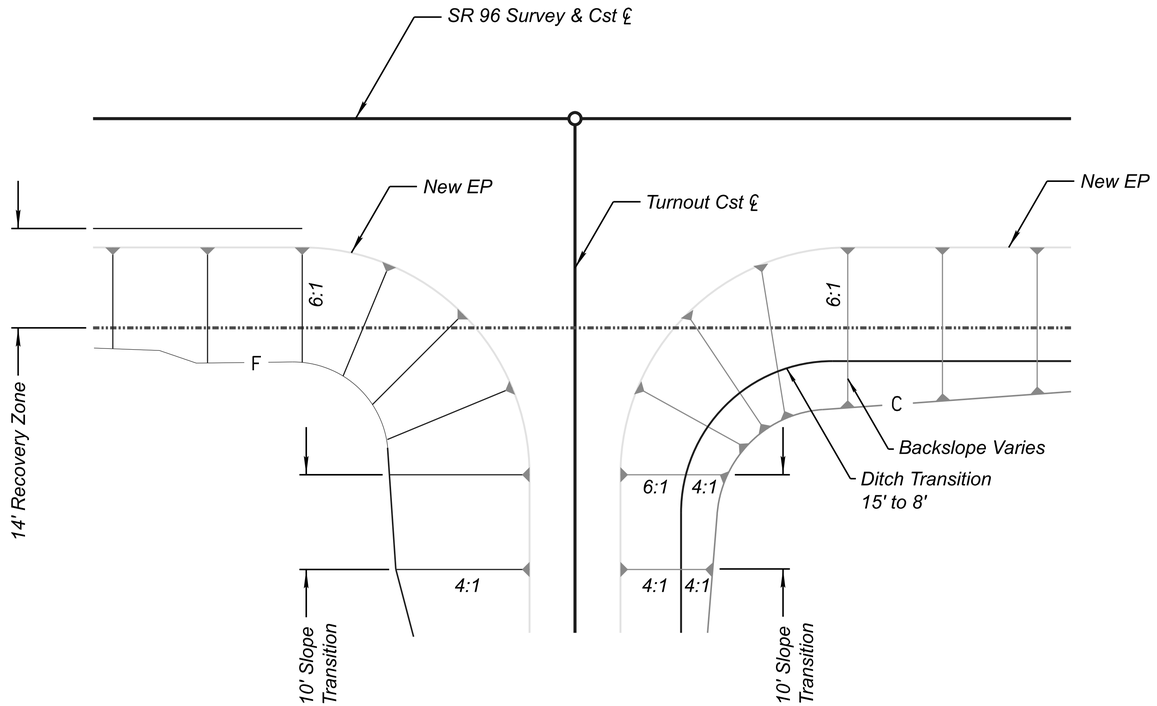
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	9	100	

LOCATION SANTA MARIA RIVER BRIDGE

SHEET 1 OF 1

TRACS NO. F0584 01C

___ OF___



Note: Maintain 6:1 Foreslopes Withen Recovery Zone as Shown — See Typical Sections

DETAIL D

TURNOUT SLOPE GRADING

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL B

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

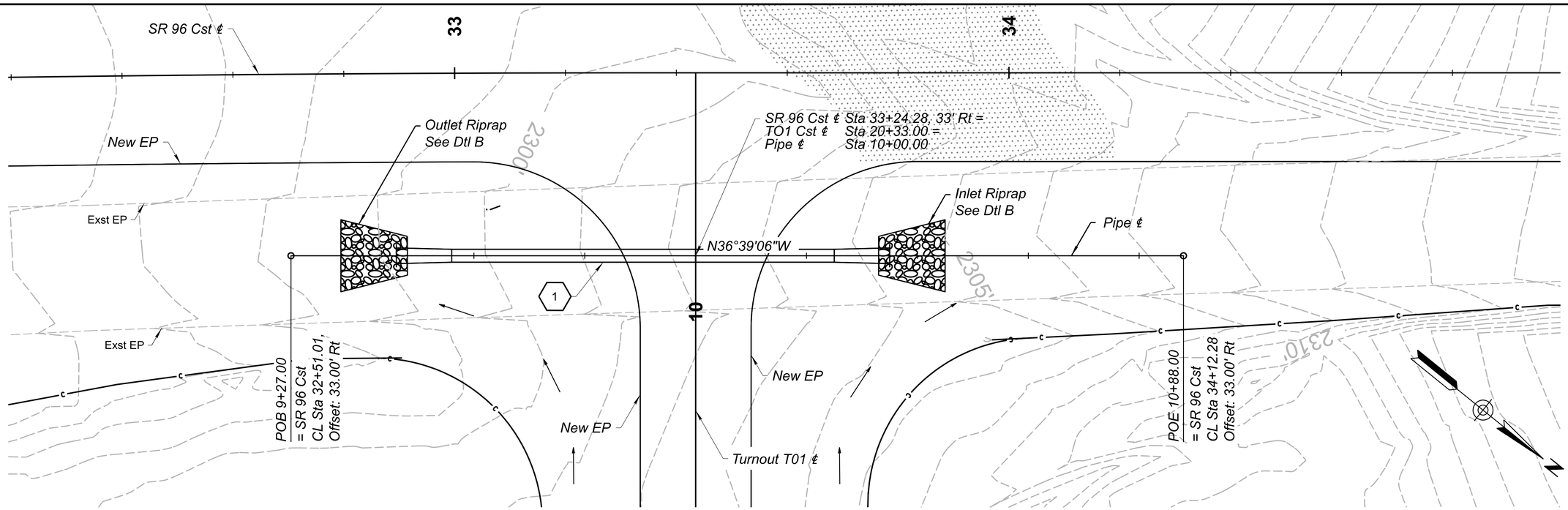
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	10	100	

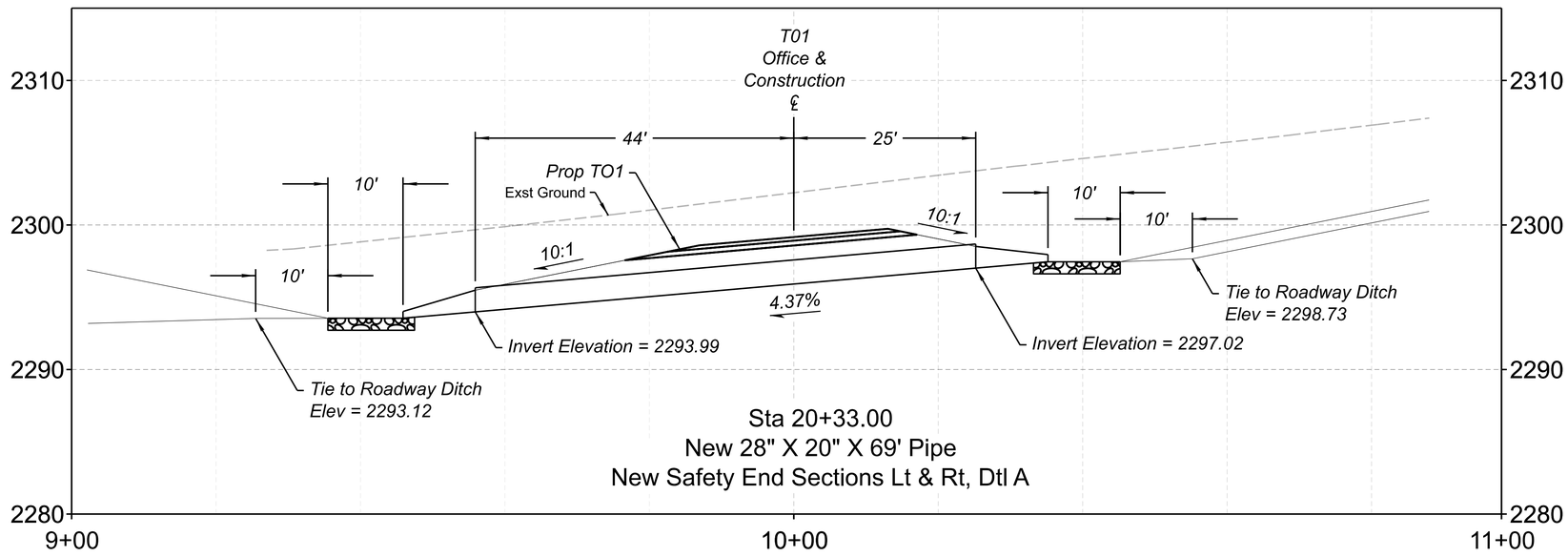
LOCATION SANTA MARIA RIVER BRIDGE

SHEET 1 OF 1

TRACS NO. F0584 01C

____ OF ____





Sta 20+33.00
New 28" X 20" X 69' Pipe
New Safety End Sections Lt & Rt, Dtl A

DETAIL D01

CULVERT

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

CULVERT DETAIL SHEET

ROUTE SR 96
MILEPOST
STRUCTURE NO.

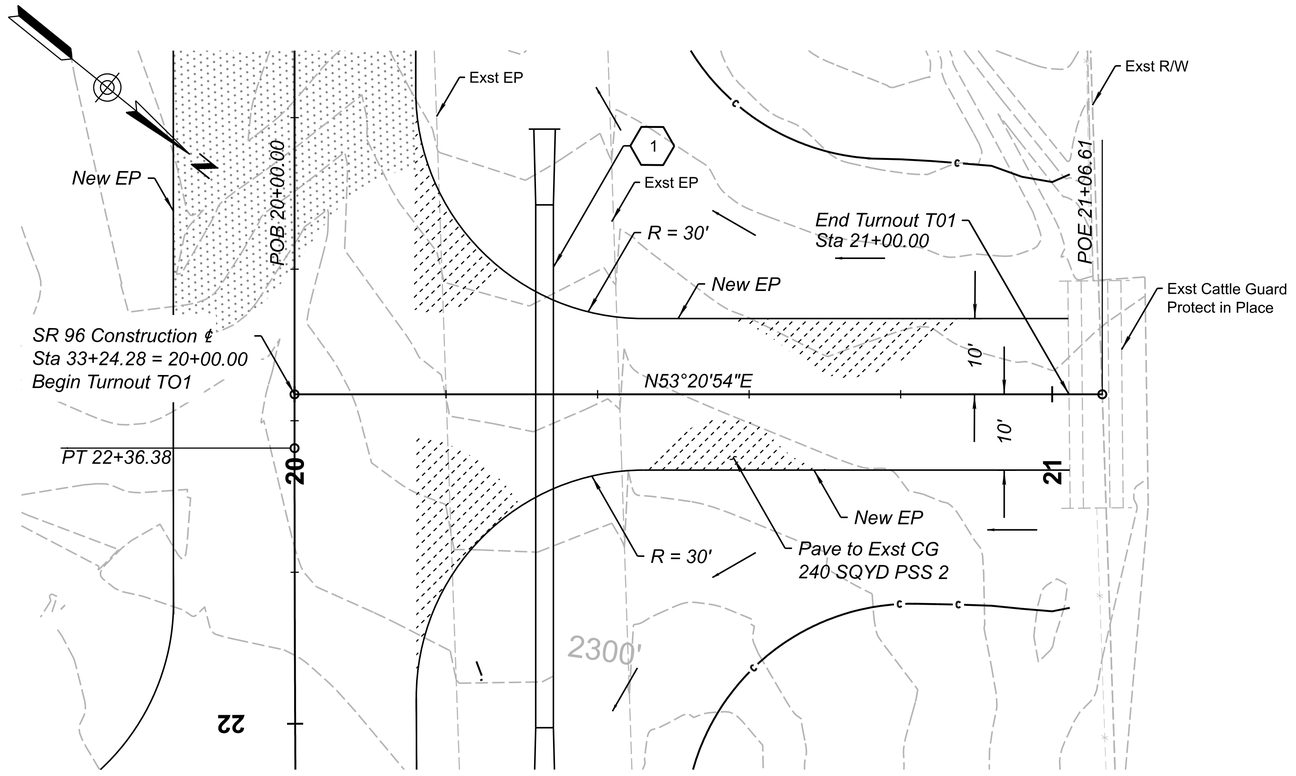
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	11	100	

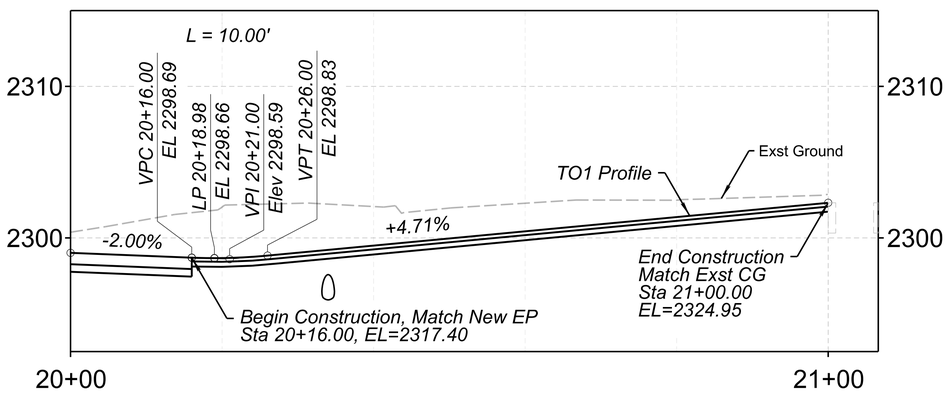
LOCATION SANTA MARIA RIVER BRIDGE

SHEET 1 OF 1

TRACS NO. F0584 01C

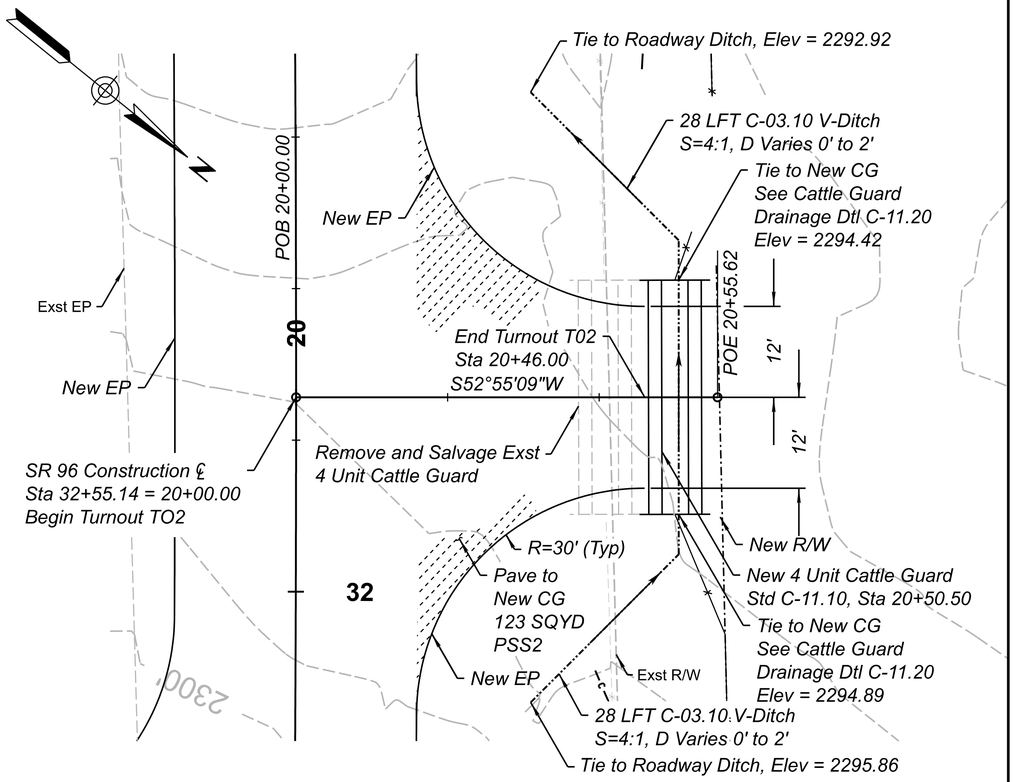
____ OF____

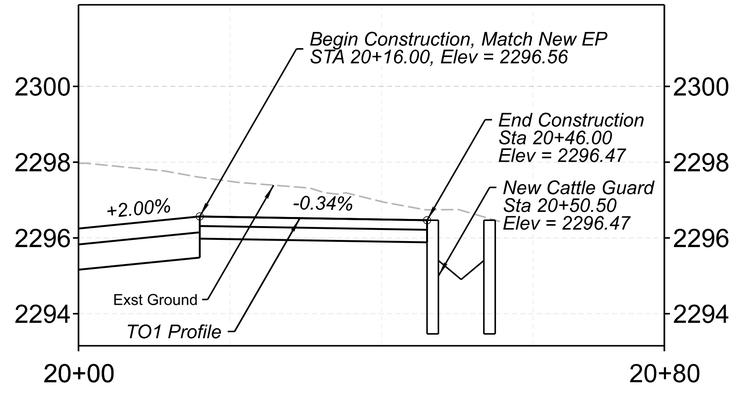




DETAIL TO1

TURNOUT





DETAIL TO2

TURNOUT

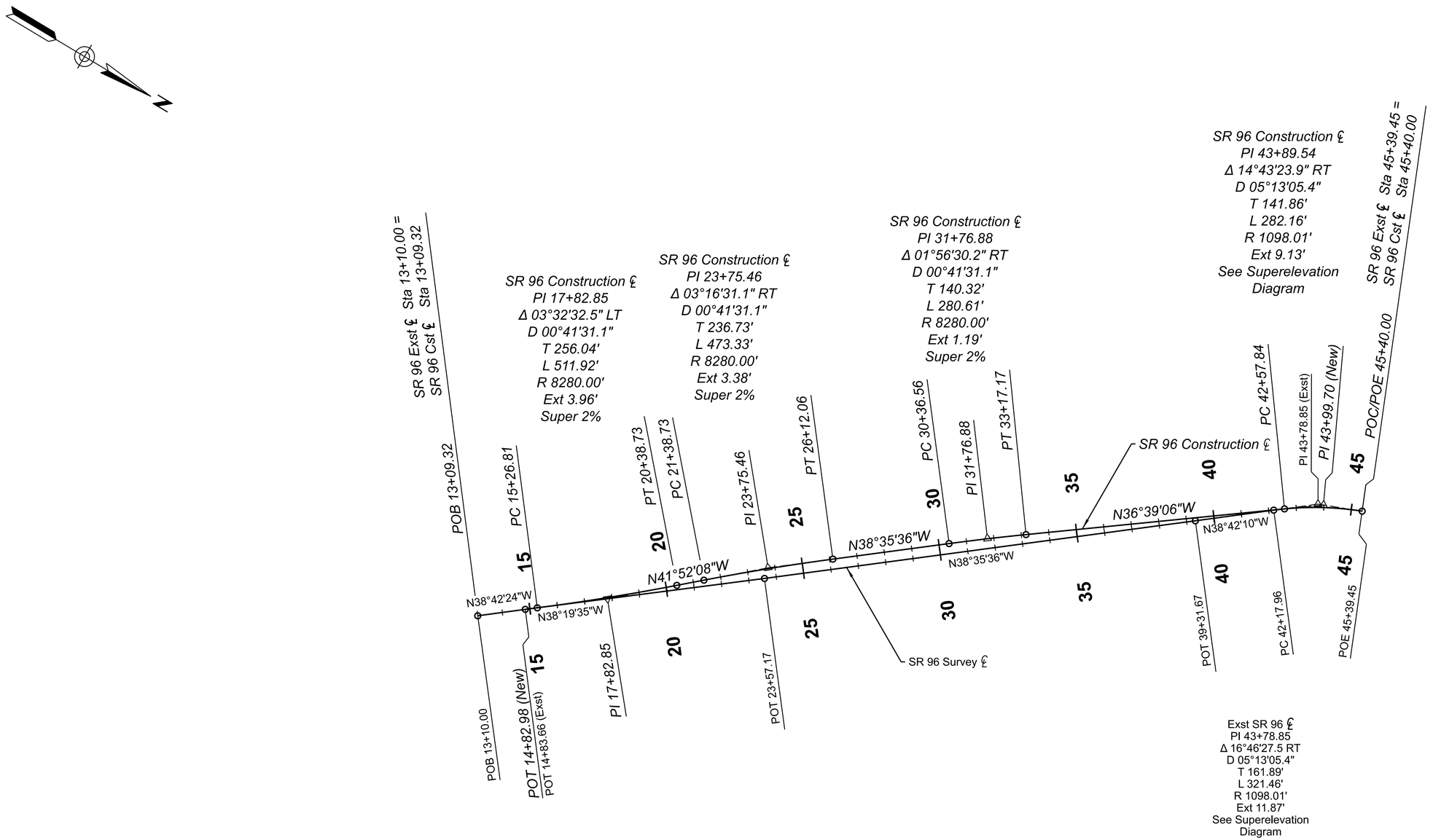
	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer — 53396 — ERICA RAE EGGEN — ARIZONA, U.S.A. — Date Signed 3-26-26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DETAIL SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	12	100	
MILEPOST	LOCATION	SANTA MARIA RIVER BRIDGE				SHEET 1 OF 1	
STRUCTURE NO.	TRACS NO. F0584 01C					___ OF ___	



	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

53396 CERTIFICATE ERICA RAE EGGEN Registered Professional Engineer State of Arizona, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

GEOMETRY SHEET

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	13	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 1 OF 1

____ OF____

Construct New Roadway

Remove Existing Roadway and Construct New Roadway

15 16 17 18 19 20

Sta 15+81.27, 94.00' Lt
Begin 1,106 LFT New Barbed Wire Fence
TYPE 1, C-12.10
Sta 15+80.00, 74.59' Lt

Remove 466 LFT Fence

New R/W

Exst R/W

20'

300' Taper Lt
11' Lt to 16' Lt

POB 14+26.81

+45

PC 15+26.81

11' ±

14' ±

N38°19'35"W

SR 96 Construction ℄

Exst EP

New EP

16'

16'

PT 20+38.73

PI 17+82.85

Exst EP

New EP

+45

300' Taper Rt
11' Rt to 16' Rt

STA 14+45.00
BEGIN NEW ROADWAY

Grade to Bottom of Temp Widening Fill Slope

Exst R/W

Grade to Bottom of Exst Fill Slope

Note: See construction sequencing phase III sheet for roadway removals

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Registered Professional Engineer
CERTIFICATE NO.
53396
ERICA RAE EGGEN
Date Signed 3-26-26
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PLAN SHEET
STA 14+40 TO 20+20

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

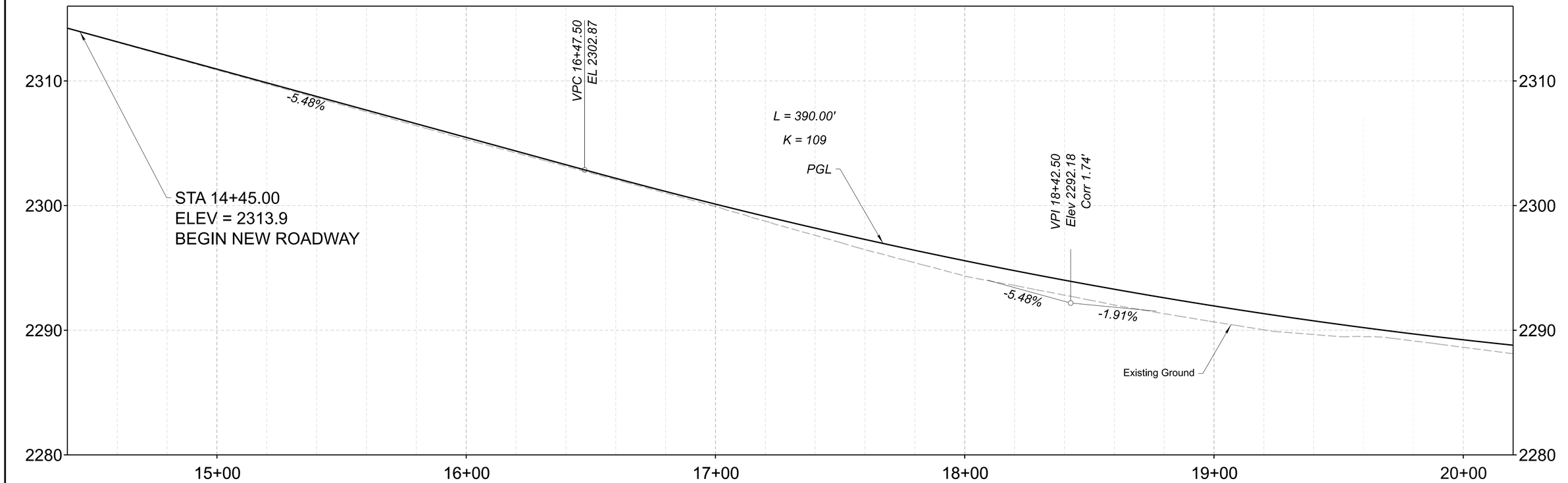
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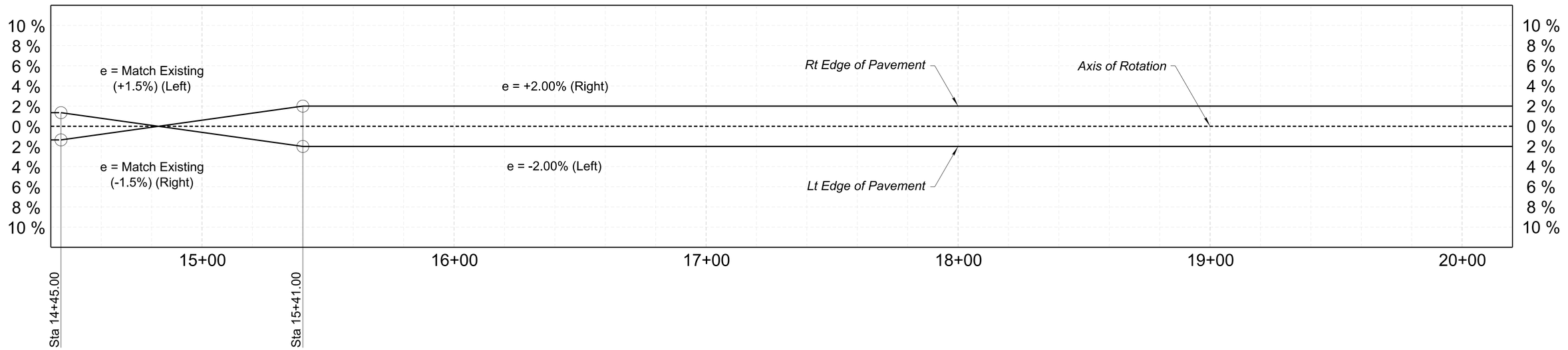
LOCATION: SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 1 OF 12

___ OF ___





	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer
CERTIFICATE NO.
53396
ERICA RAE
EGGEN
Date Signed 3-26-26
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 14+40 TO 20+20

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	15	100	

LOCATION SANTA MARIA RIVER BRIDGE

SHEET 2 OF 12

TRACS NO. F0584 01C

____ OF____

Construct New Roadway

Remove Existing Roadway and Construct New Roadway

21 22 23 24 25 26

New R/W

20'

Exst R/W

Remove 618 LFT Fence

Sta 25+00.40, 60.48' Lt

Sta 26+19.65, 74.44' Lt
End New Barbed Wire Fence
Tie to Bridge Abutment

100' Taper Lt
16' Lt to 18' Lt

+14

+14

PT 20+38.73

PC 21+38.73

PI 23+75.46

PT 26+12.06

New EP

16'

16'

N41°52'08"W

Exst EP

New EP

SR96 Construction ℄

Exst EP

Sta 26+14.52
End New Roadway
Begin Approach Slab

Grade to Bottom of Exst Fill Slope

Remove 92 LFT Fence

Exst R/W

170 LFT New Barbed Wire Fence
TYPE 1, C-12.10

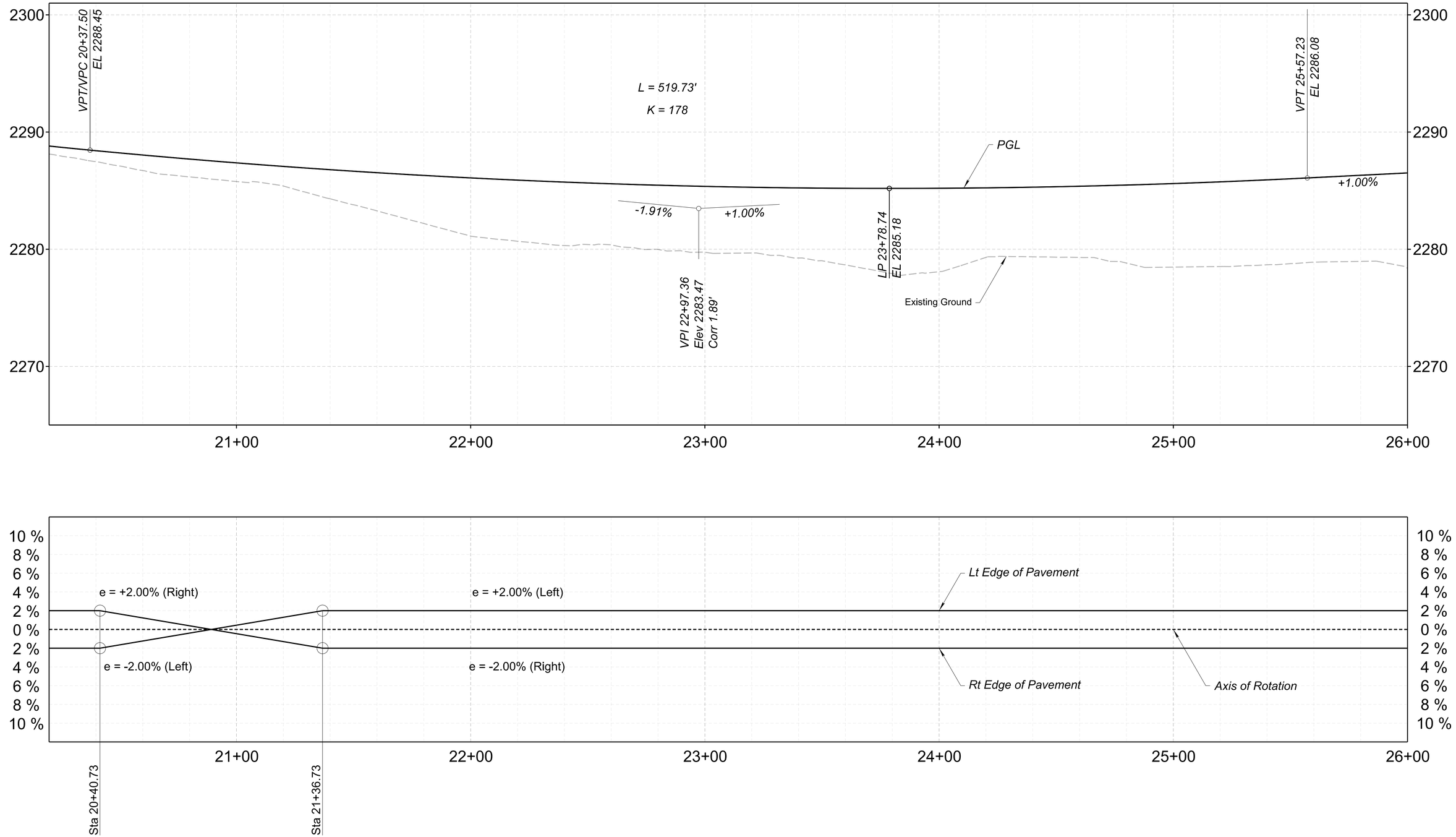
Note: See construction sequencing phase III sheet for roadway removals

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PLAN SHEET
STA 20+20 TO 26+00

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	16	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET 3 OF 12	
STRUCTURE NO.	TRACS NO. F0584 01C					___ OF ___	



	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer — CERTIFICATE NO. 53396 — ERICA RAE EGGEN — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 20+20 TO 26+00

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	17	100	
MILEPOST	F.H.W.A. Arizona Division					
STRUCTURE NO.	LOCATION: SANTA MARIA RIVER BRIDGE					SHEET 4 OF 12
	TRACS NO. F0584 01C					___ OF___

Construct New Roadway

Prop TCE

New R/W

26 27 28 29 30 31

35'

Exst R/W

New Santa Maria River Bridge
See Bridge Plans
Struct No: 20306

Sta 30+34.10
End Approach Slab
Begin New Roadway

PC 30+36.56

PT 26+12.06

SR96 Construction ℄

N38°35'36"W

1 2 3 4 7 8 9 10

Exst Santa Maria River Bridge
See Bridge Plans
Struct No: 225

Exst R/W

Santa Maria River

Note: See construction sequencing phase III sheet for roadway removals

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Registered Professional Engineer
CERTIFICATE
53396
ERICA RAE EGGEN
Date Signed 2-26-26
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
BRIDGE PLAN SHEET
STA 26+00 TO 30+25

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

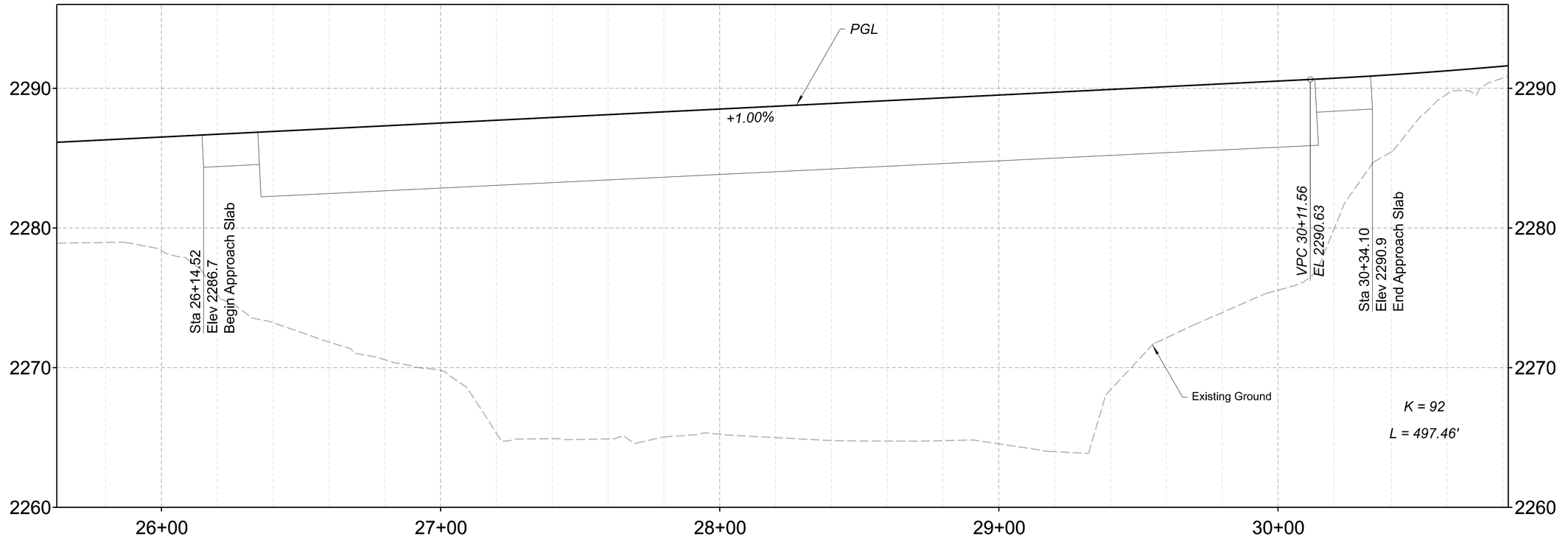
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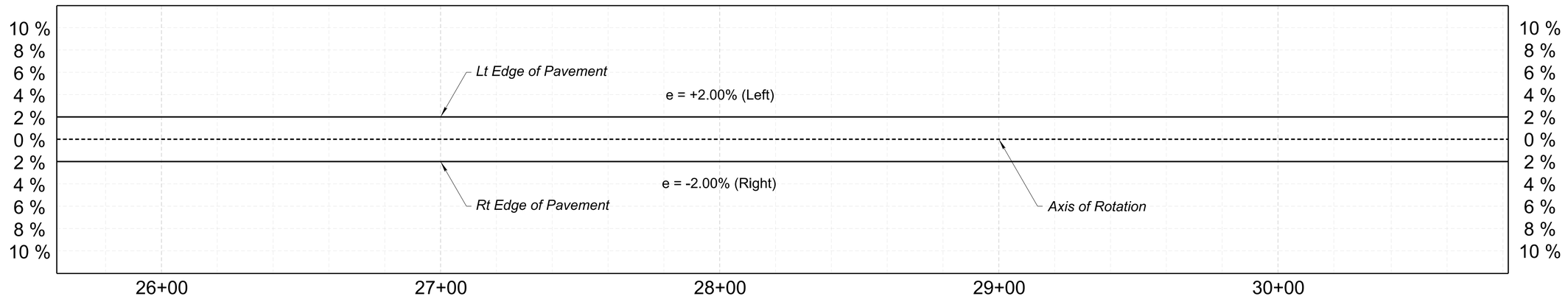
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 5 OF 12

____ OF ____





	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer — 53396 — ERICA RAE EGGEN — ARIZONA, U.S.A. — Date Signed 3-26-25

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 26+00 TO 30+25

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	19	100	

LOCATION SANTA MARIA RIVER BRIDGE

SHEET 6 OF 12

TRACS NO. F0584 01C

____ OF____

Construct New Roadway

Remove Existing Roadway and Construct New Roadway

30 31 32 33 34 35

Sta 31+00.17, 53.58' Lt

New 4-Unit Drainage Cattle Guard, C-11.20

End New Barbed Wire Fence
Tie to New Cattle Guard

Sta 32+25.00, 55.20 Lt

Remove 237 LFT Fence

Remove and Salvage
Existing Cattle Guard

Begin 842 LFT
New Barbed Wire Fence, Type 1, C-12.10
Tie to New Cattle Guard
Sta 32+86.19, 56.68 Lt

Prop TCE

New R/W

Exst R/W

Remove 299
LFT Fence

100' Taper Lt
18' Lt to 16' Lt

+35

+35

PC 30+36.56

Begin 268 LFT
New Barbed Wire Fence
TYPE 1, C-12.10
Tie to Bridge Abutment

PI 31+76.88

PT 33+17.17

15'

SR96 Construction ℄

New EP

16'

16'

New Turnout
See Detail TO2

New EP

Exst EP

Exst EP

New Turnout
See Detail TO1

100' Taper Rt
18' Rt to 16' Rt

+35

+35

Remove 92 LFT Fence

170 LFT New Barbed Wire Fence
TYPE 1, C-12.10

Exst R/W

Exst Cattle Guard
Protect in Place

Note: See construction sequencing phase III sheet for roadway removals

Registered Professional Engineer
CERTIFICATE
53396
ERICA RAE EGGEN
Date Signed 2-26-26
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PLAN SHEET
STA 30+25 TO 35+65

ROUTE SR 96
MILEPOST
STRUCTURE NO.

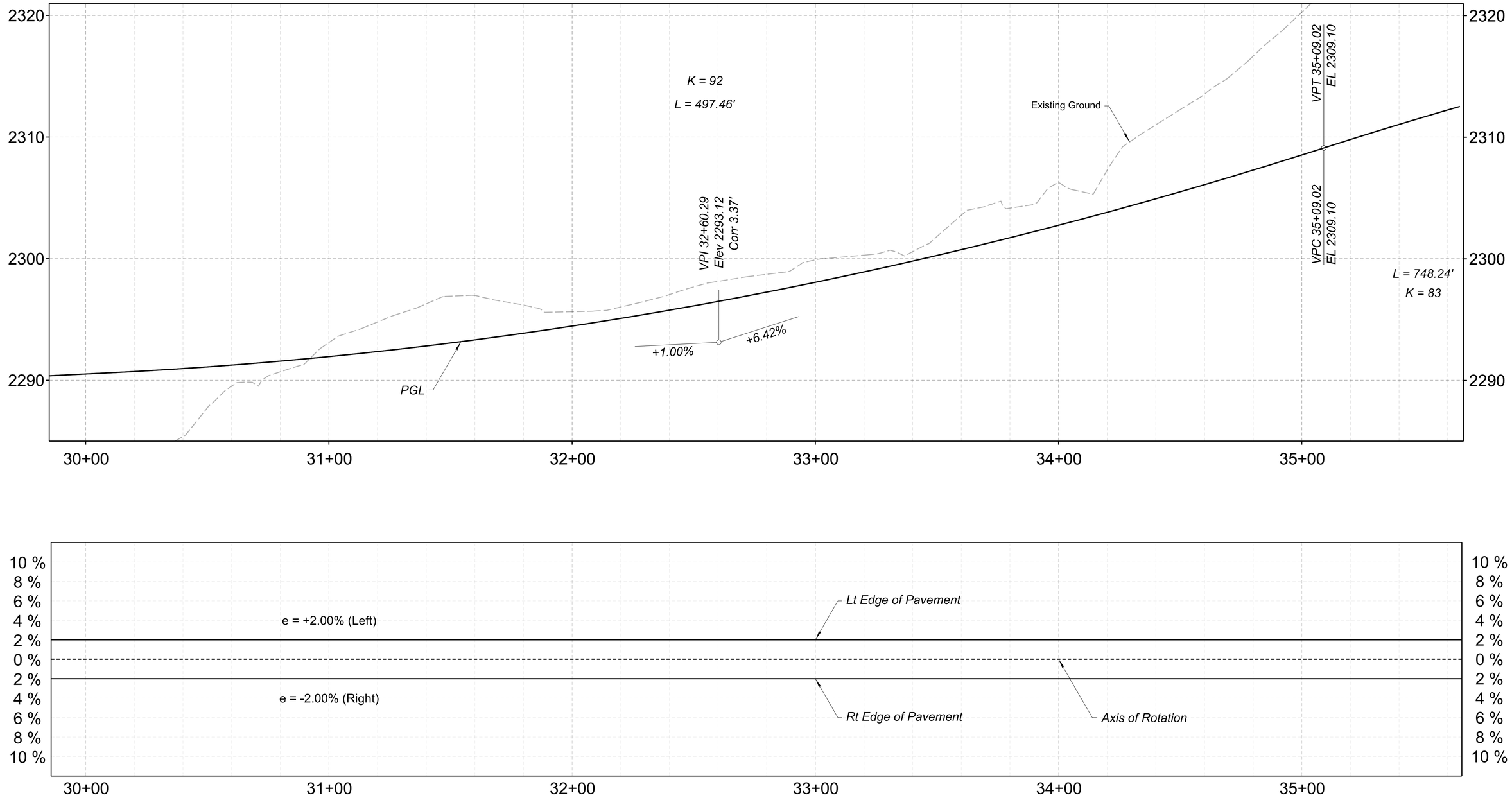
F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 20 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 7 OF 12

___ OF ___



	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Professional Engineer — CERTIFICATE NO. 53396 — ERICA RAE EGGEN — Date Signed 3-26-25 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 30+25 TO 35+65

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	21	100	

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

LOCATION SANTA MARIA RIVER BRIDGE

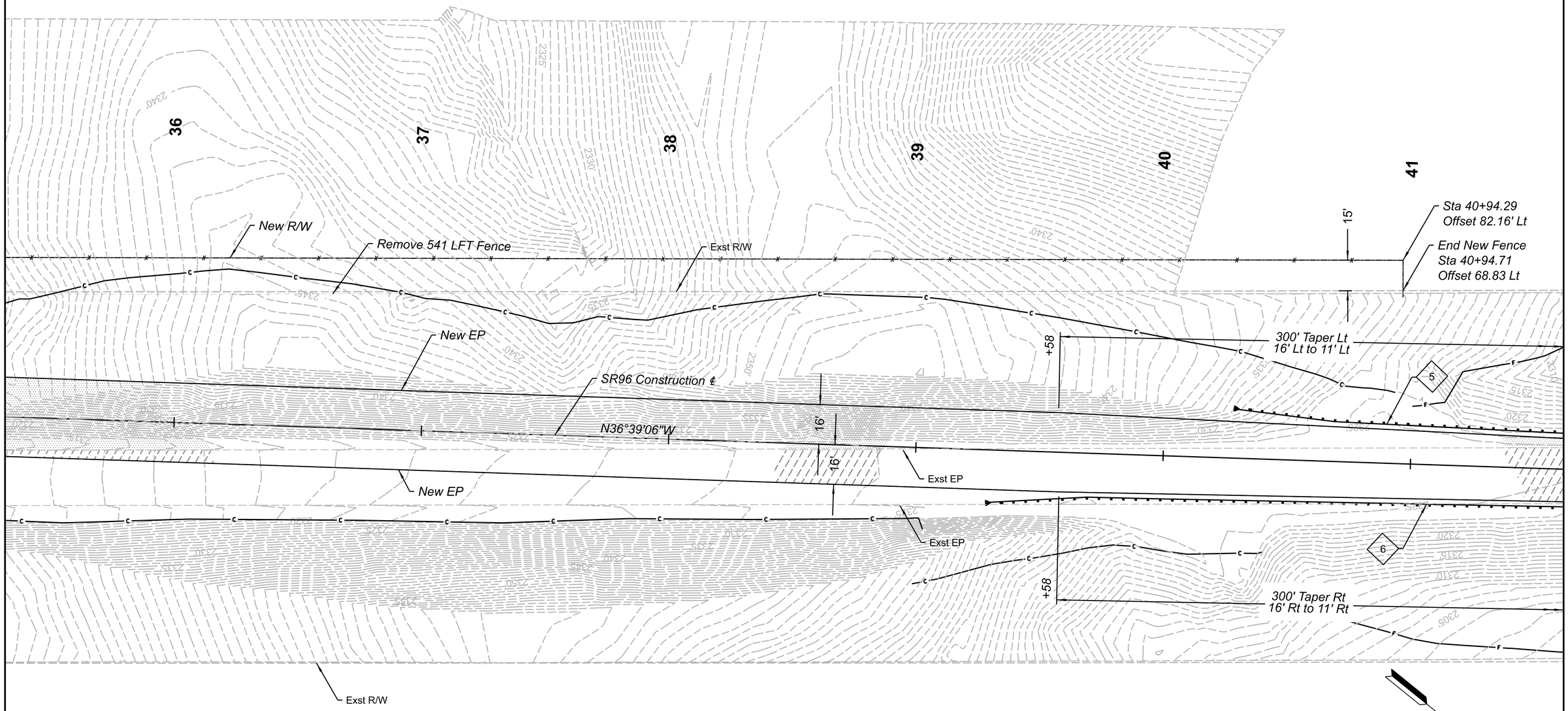
TRACS NO. F0584 01C

SHEET 8 OF 12

___ OF___

Construct New Roadway

Remove Existing Roadway and Construct New Roadway



Note: See construction sequencing phase III sheet for roadway removals

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

53396 ERICA RAE EGGEN — Registered Professional Engineer — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PLAN SHEET
STA 35+65 TO 41+15

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

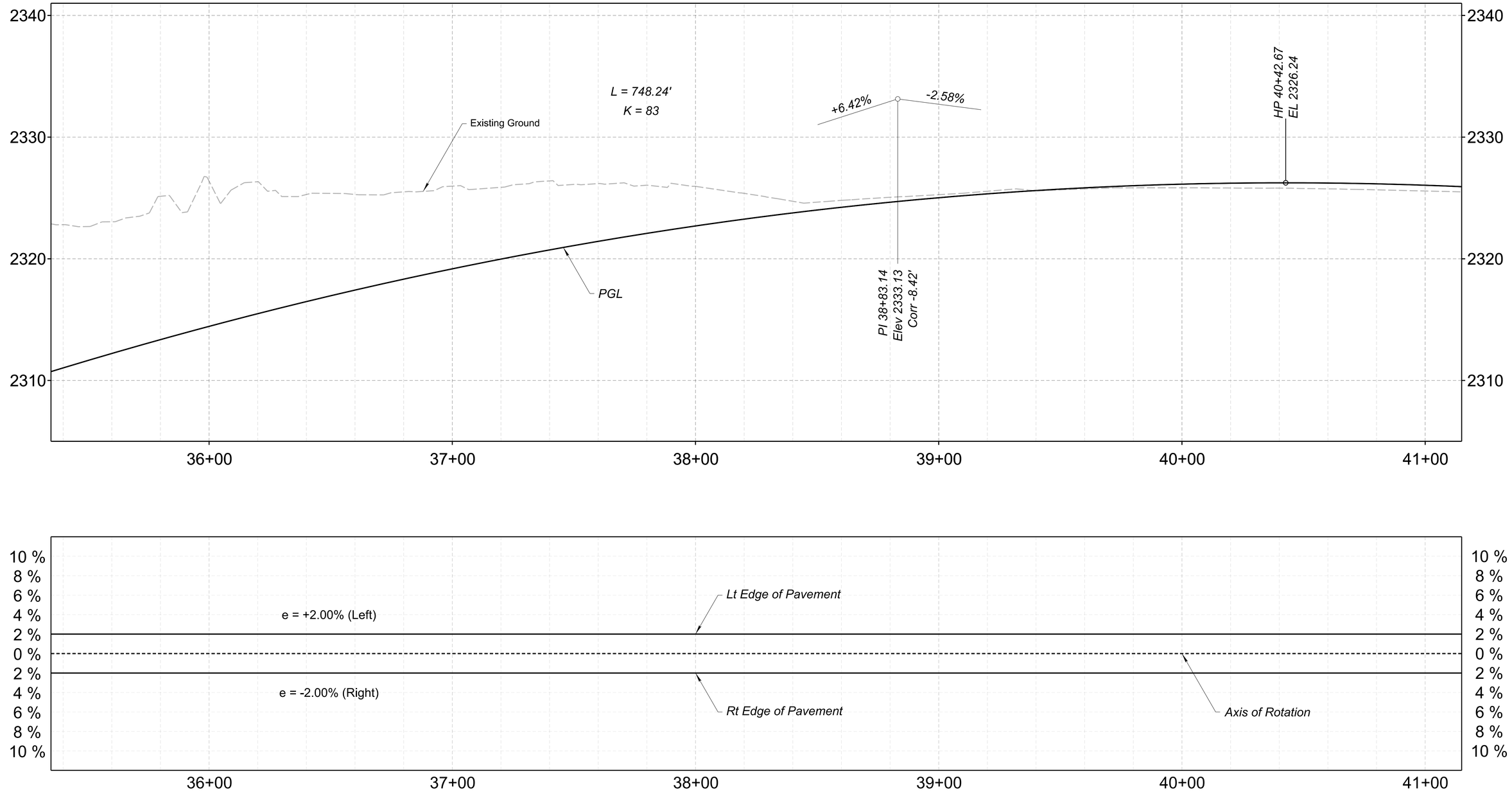
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	22	100	

LOCATION: SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 9 OF 12

___ OF ___



	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

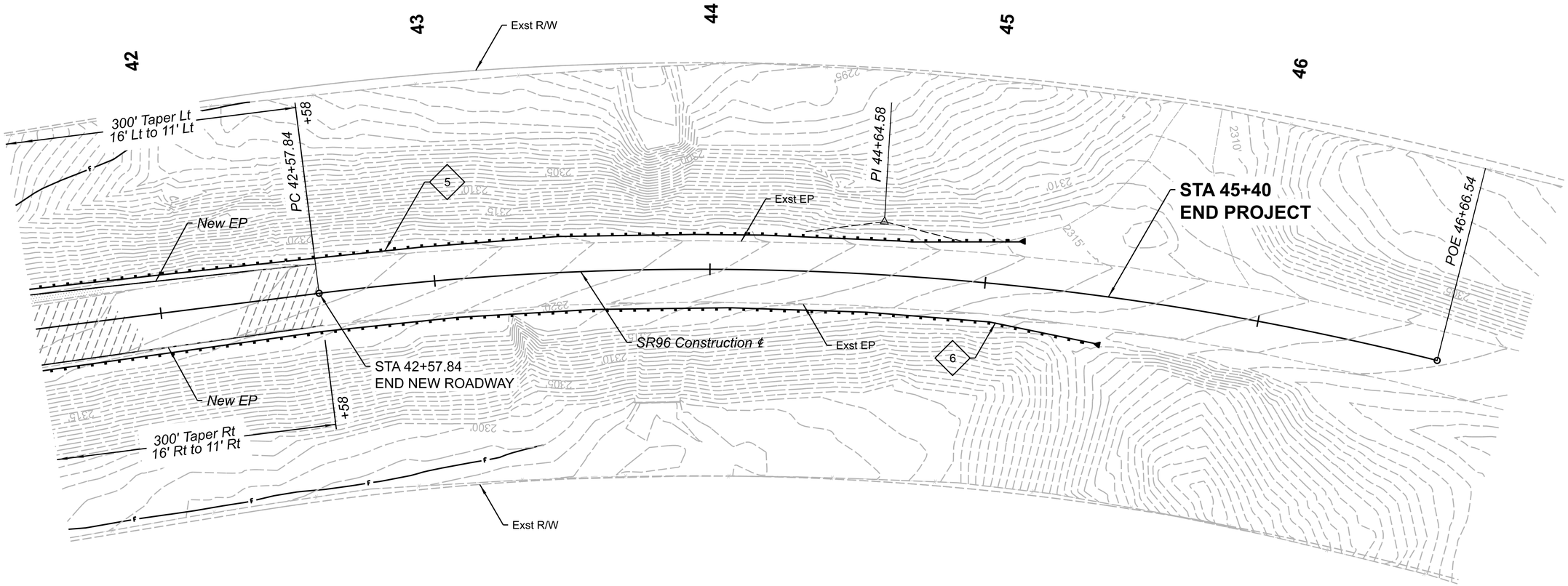
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 35+65 TO 41+15

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	23	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE						SHEET 10 OF 12
STRUCTURE NO.	TRACS NO. F0584 01C						___ OF___

Construct New Roadway

Remove Existing Roadway and Construct New Roadway



Note: See construction sequencing phase III sheet for roadway removals

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Registered Professional Engineer — CERTIFICATE 53396 — ERICA RAE EGGEN — Civil — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PLAN SHEET
STA 41+15 TO 45+40

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

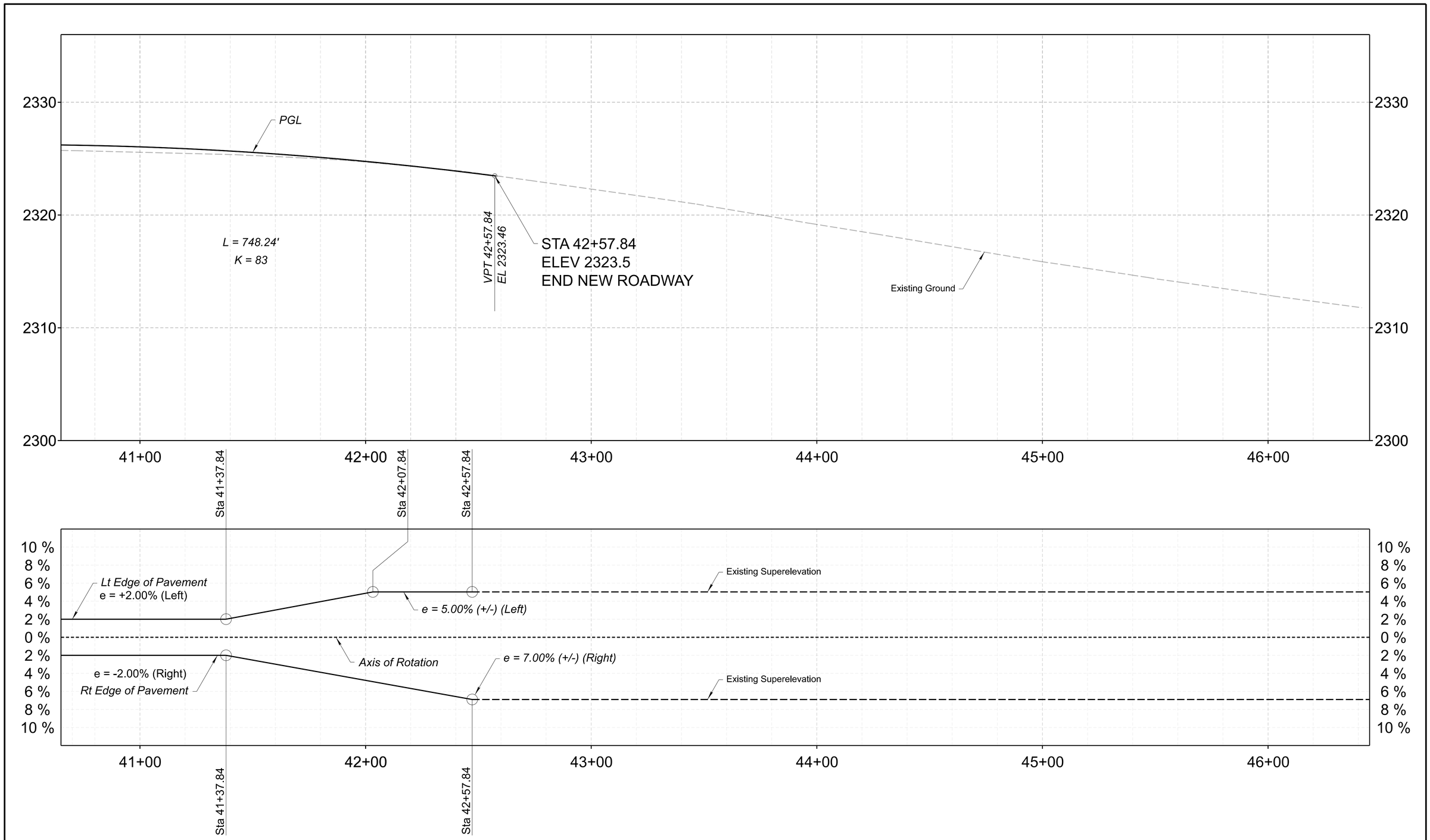
F.H.W.A. Arizona Division | STATE: ARIZ. | PROJECT NO.: 096 YV 010 | FEDERAL ID NO.: 096-A(200)T | SHEET NO.: 24 | TOTAL SHEETS: 100 | RECORD DRAWING:

LOCATION: SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 11 OF 12

___ OF ___



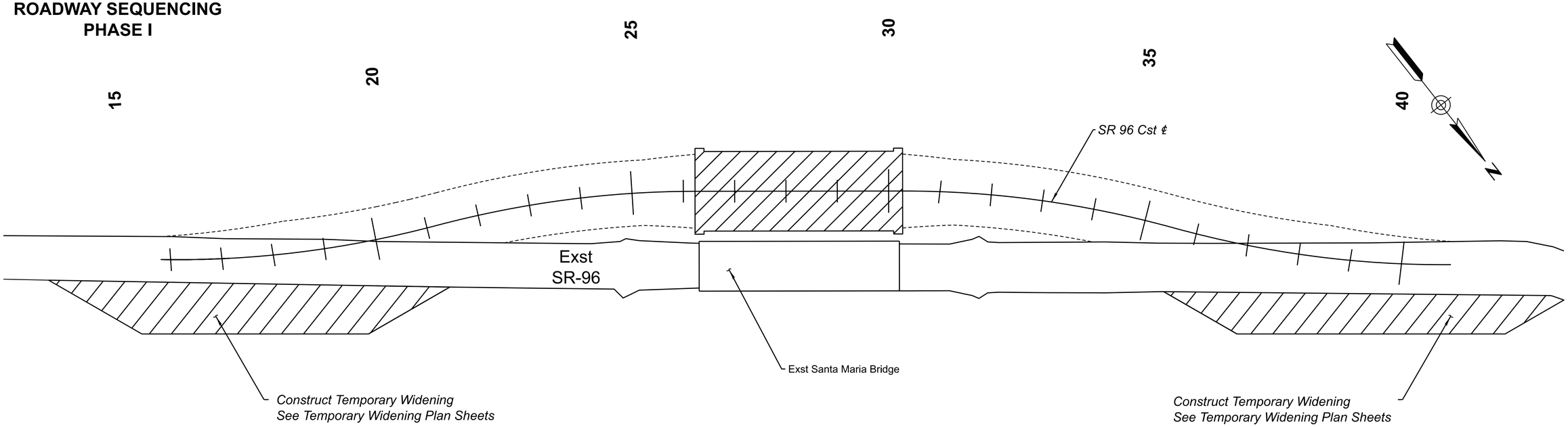
	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96
PROFILE SHEET
STA 41+15 TO 46+70

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	25	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET 12 OF 12	
STRUCTURE NO.	TRACS NO. F0584 01C					___ OF___	

ROADWAY SEQUENCING
PHASE I



Roadway Phase I
- *Place Temporary Widening*
- *Bridge Construction*
- *See Traffic Control Sheets for Lane Configurations and Workzone Requirements*

Existing Roadway This Phase

Construct This Phase

Construct Future Phases

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

53396 ERICA RAE EGGEN — Date Signed 3-26-26 — Registered Professional Engineer — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

ROADWAY SEQUENCING
PHASE I

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	26	100	

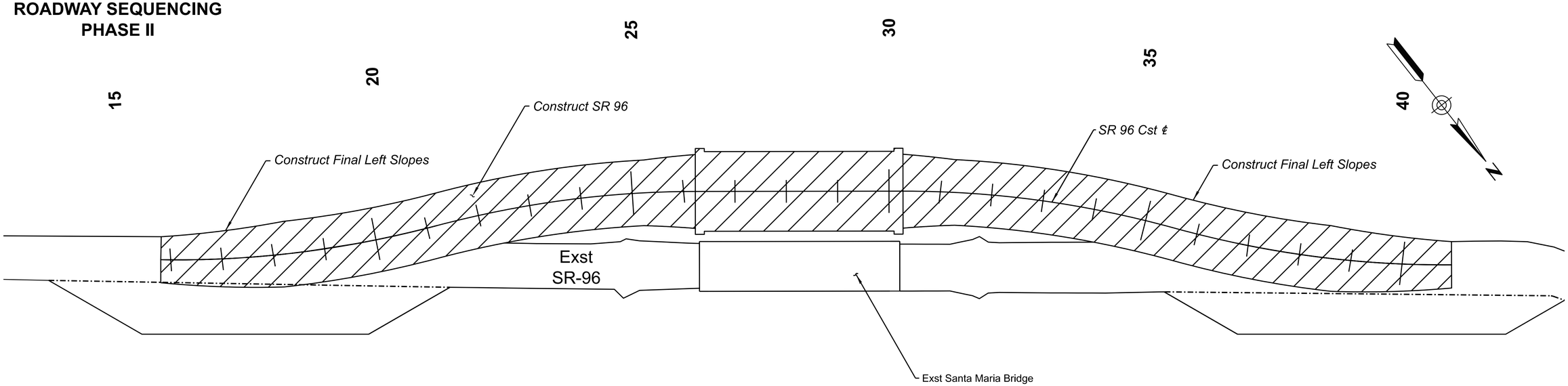
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 1 OF 3

___ OF___

ROADWAY SEQUENCING
PHASE II



Roadway Phase II
- *Construct SR 96 and Final Slopes, Left Side*
- *Bridge Construction*
- *See Traffic Control Sheets for Lane Configurations and Workzone Requirements*

Existing Roadway This Phase

Construct This Phase

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Registered Professional Engineer — CERTIFICATE 53396 — ERICA RAE EGGEN — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

ROADWAY SEQUENCING
PHASE II

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	27	100	

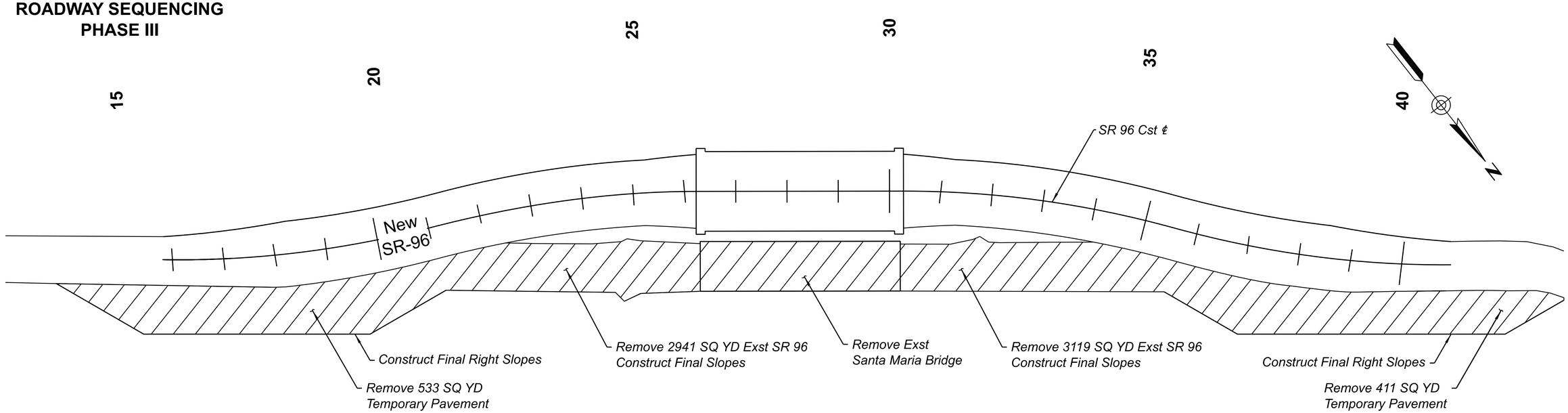
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 2 OF 3

___ OF___

ROADWAY SEQUENCING
PHASE III



Roadway Phase III
- *Remove Existing SR 96 Roadway and Temporary Pavement*
- *Construct SR 96 Final Slopes, Right Side*
- *Remove Existing SR 96 Bridge*
- *See Traffic Control Sheets for Lane Configurations and Workzone Requirements*

Existing Roadway This Phase

Remove and Construct This Phase

Professional Engineer — CERTIFICATE — 53396 ERICA RAE EGGEN — ARIZONA, U.S.A. — Date Signed 3-26-26

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

CONSTRUCTION SEQUENCING
PHASE III

ROUTE SR 96
MILEPOST
STRUCTURE NO.

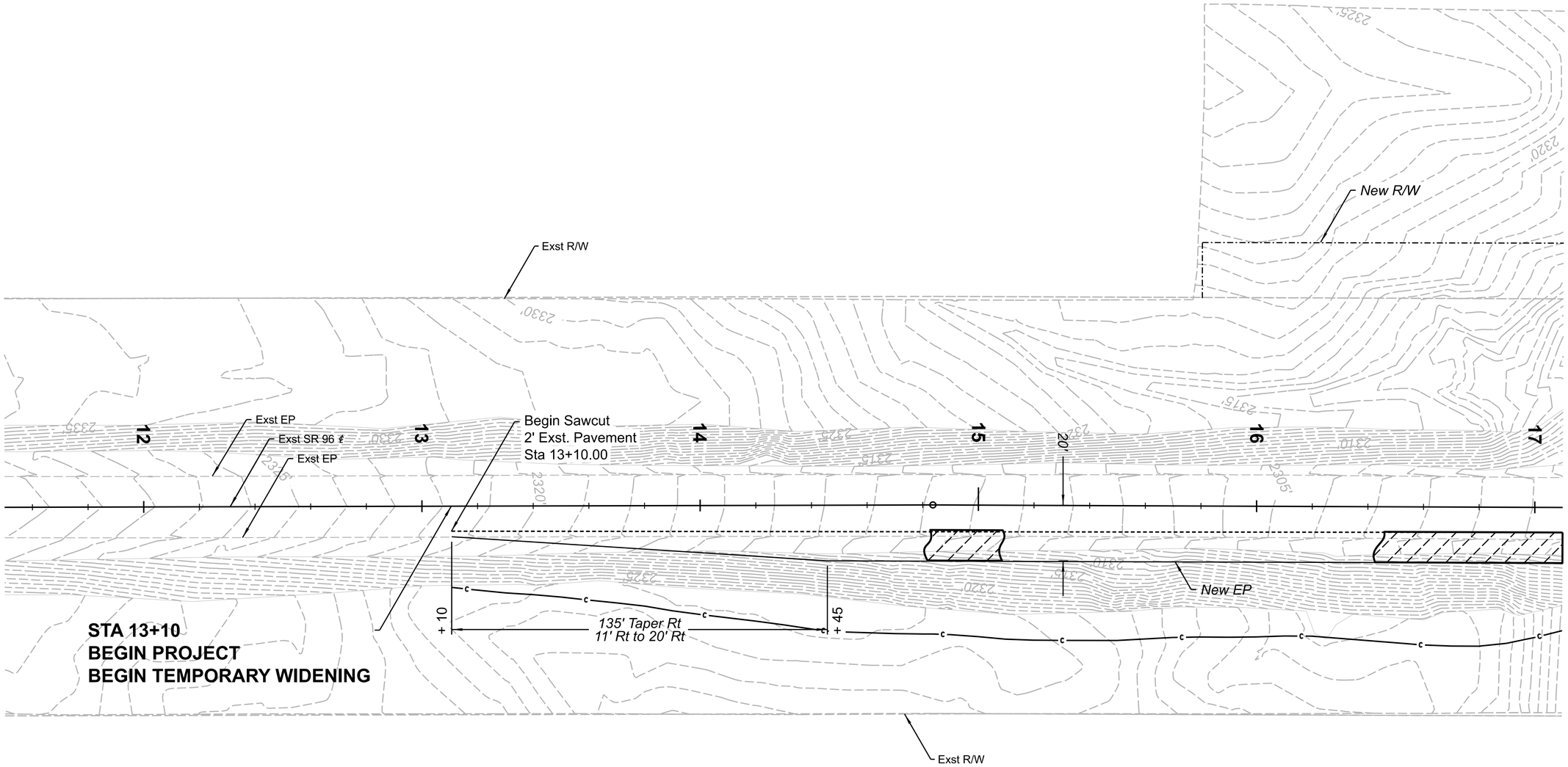
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	28	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 3 OF 3

___ OF___



Note: Stations and dimensions based on SR96 Exst Survey CL, see Geometry Sheet

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96 TEMPORARY WIDENING
PLAN SHEET
STA 13+10 TO 16+80

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

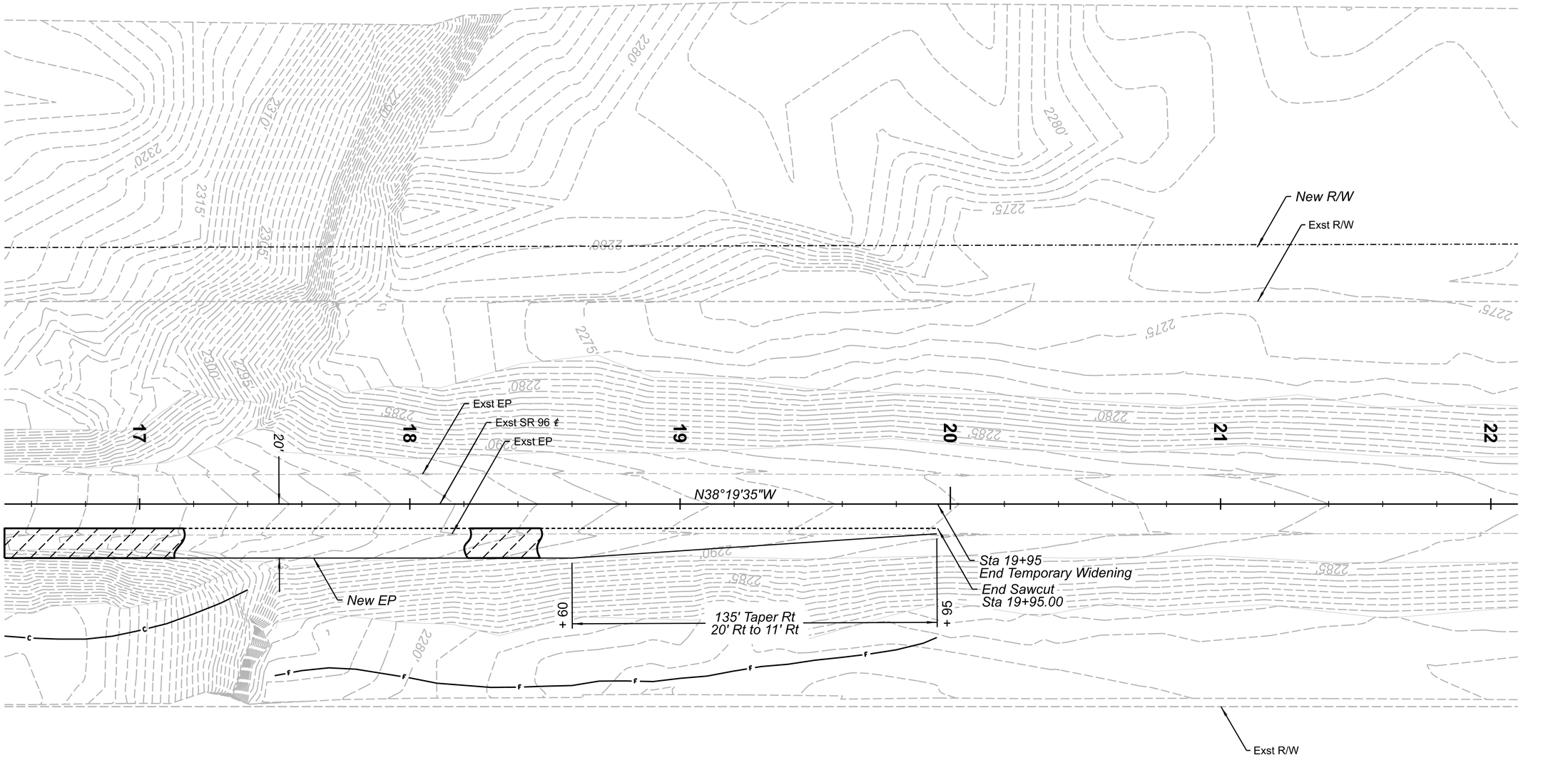
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	29	100	

LOCATION: SANTA MARIA RIVER BRIDGE

SHEET 1 OF 3

TRACS NO. F0584 01C

___ OF ___



Note: Stations and dimensions based on SR96 Exst Survey CL, see Geometry Sheet

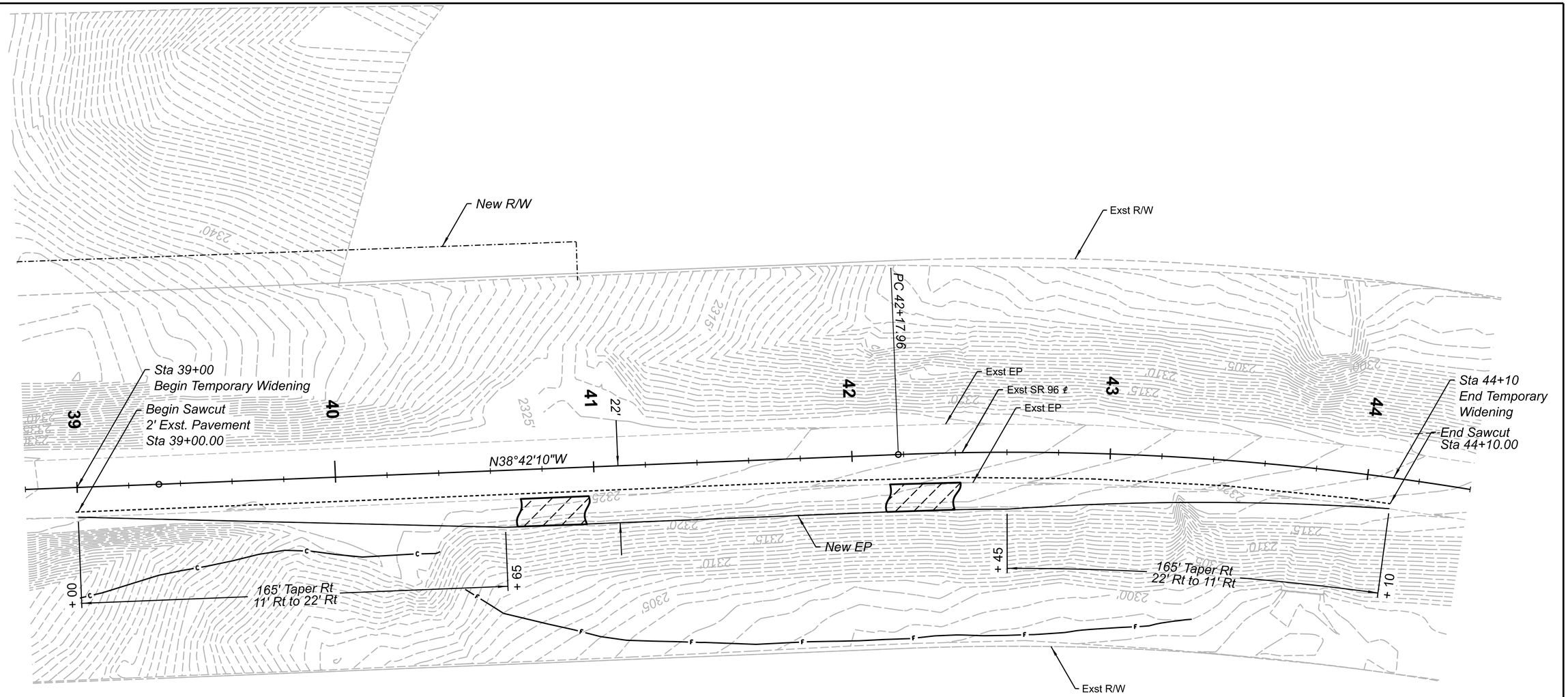
	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

Registered Professional Engineer — CERTIFICATE 53396 — ERICA RAE EGGEN — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96 TEMPORARY WIDENING
PLAN SHEET
STA 16+80 TO 19+95

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	30	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET 2 OF 3	
STRUCTURE NO.	TRACS NO. F0584 01C					___ OF ___	



Note: Stations and dimensions based on SR96 Exst Survey CL, see Geometry Sheet

	NAME	DATE
DESIGN	N. Harness	3/26
DRAWN	P. Meek	3/26
CHECKED	N. Harness	3/26
TEAM LEADER	E. Eggen	3/26

53396 ERICA RAE EGGEN — Registered Professional Engineer — Civil — Date Signed 3-26-26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

SR 96 TEMPORARY WIDENING
PLAN SHEET
STA 39+00 TO 44+10

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	31	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET 3 OF 3	
STRUCTURE NO.	TRACS NO. F0584 01C					___ OF ___	

TRAFFIC CONTROL 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 Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.*

2. *The contractor shall abide by the traffic control requirements specified for Subsection 104.04-Maintenance of Traffic - of the Special Provisions.*

3. *Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer.*

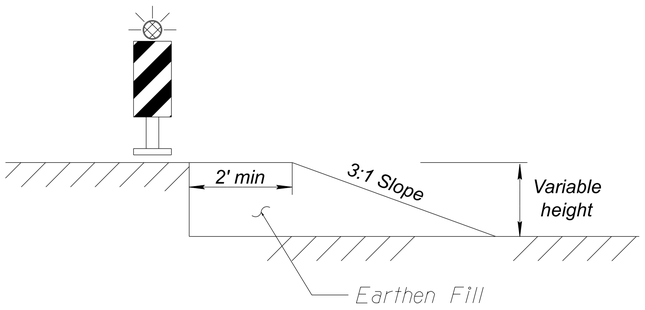
4. *All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer, at the contractor's expense. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer. The contractor shall replace any signing items disturbed by the contractor but not intended to be removed - whether within or outside of the project limits at the contractor's expense.*

5. *All construction signs shall have black letters on an orange background, except as otherwise indicated.*

6. *All temporary construction signs shall be on embedded posts if they will be in place for more than 3 days.*

7. *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.*

8. *All signs shown on the plans shall be mounted on embedded posts, except as otherwise indicated. 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. All other short-term signs may be installed on portable stands at least 5 feet above the pavement.*



Variable Depth Fillet

NOTE:
Use only when height of drop-off alongside the pavement is greater than 2 inches, the condition is left overnight and the roadway is open to traffic.

9. *The nearest edge or corner of a sign shall be approximately 12 feet from the nearest edge of pavement or 6 feet behind guardrail for all signs mounted on embedded posts.*

10. *Flags shall be mounted on top of all construction signs, except "End Road Work Thank You". Type A flashing warning lights shall be required on all nighttime construction signs, except "End Road Work Thank You".*

11. *Channelizing devices shall be placed 40 feet on center in tangent sections. A Type C steady-burning light shall be mounted on every Type 1 or Type 2 barricade or vertical panels used for channelization in tangent sections during nighttime activities.*

12. *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.*

13. *While traffic control items 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 which cannot be moved at least 30 feet from the roadway shall be covered so the public cannot read the legends.*

14. *During construction activities, the contractor shall position a sufficient number of Type 3 barricades across the new roadway approaches to prevent traffic from entering the work zone. The contractor shall place two Type A flashing warning lights on each end of the barricades. The contractor will also position a 48" x 30" ROAD CLOSED sign on one of the Type 3 barricades at each location. The engineer may require the contractor to position these devices along the existing roadway approaches to the new roadway approaches once SR 96 traffic is shifted to the new alignment. As much as is practicable, the contractor shall obliterate connections to the existing roadway once traffic is shifted to the new roadway.*

15. *From the time the contractor begins excavation work until the final surface course is placed except where TCB is placed in front of the excavation, the contractor shall place an earthen or aggregate base fillet along the sawcut edges of the pavement in accordance with the variable depth fillet detail. There shall be no measurement or direct payment for the placement, maintenance and removal of the fillet in connection with these setups.*

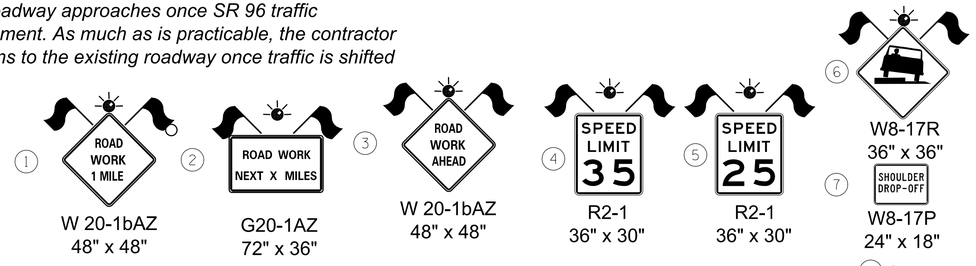
16. *During work periods, the contractor shall maintain both directions of travel on SR 96 except as otherwise indicated on this sheet for construction of the tie-in transitions from the new to existing roadway. The contractor shall have a maximum of 144 consecutive hours to complete the tie-in transitions from the new to the existing roadway utilizing temporary signals.*

17. *The contractor shall maintain access to each intersecting roadway and/or adjacent properties to SR 96 at all times.*

18. *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.*

19. *When no longer required, temporary pavement markings shall be removed.*

20. *All drawings are schematic only and not to scale.*

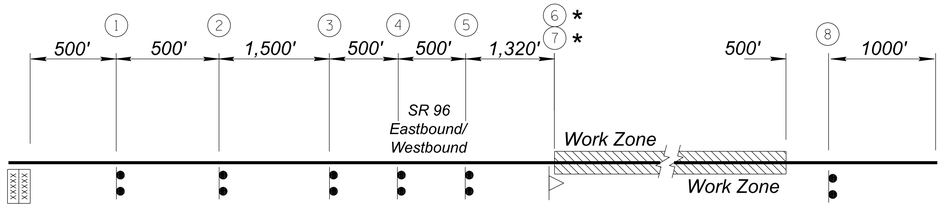


SIGN LEGEND:

Signs on Spring Stands

Signs on Embedded Posts

Changeable Message Board



ADVANCED WARNING SIGNS:
The above signs shall be in place for the duration of the project.
** To be used in conjunction with variable depth fillet*

DETAIL A

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL NOTES

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	32	100	

LOCATION: SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

Roadway Const. Phase	DURATION	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
1	485 Calendar Days	Install and Maintain Advanced Warning Signs	Install advanced warning signing in accordance with Traffic Control Detail A on Traffic Control Notes sheet.	Provide truck mounted attenuator (TMA) for installing and removing advanced warning signs.
1	175 Working Days	Begin New Bridge Construction	Traffic control for New Bridge and Roadway Approches shall be in accordance with Traffic Control Detail B.	Maintain Traffic on existing roadway The contractor shall maintain one through lane in each direction at all times.
1	10 Working Days	Construct Temporary Roadway Widening	Traffic control for Temporary Roadway Widening shall be in accordance with Figure 6H-10 of the 2009 MUTCD at the approximate locations indicated in Traffic Control Detail D.	Provide Two-Way Flagging during working hours. The contractor shall maintain two-way traffic at all times. The contractor shall place vertical panels along the workzone edgeline before opening both lanes to traffic.
2	40 Working Days	Complete Bridge Construction and Begin Roadway Approaches	Traffic control for Off-alignment Roadway Approaches shall be in accordance with Traffic Control Detail C and Figure 6H-10 of the 2009 Manual on Uniform Traffic Control Devices (MUTCD) for Temporary Concrete Barrier (TCB) Set-Up and Take Down.	Provide Two-Way Flagging For TCB Set-Up and Take Down. The contractor shall maintain two-way traffic at all times.
2	12 Working Days	Construct New Roadway Approaches	Traffic control for New Roadway Approaches shall be in accordance with Figure 6H-10 of the 2009 MUTCD at the approximate locations indicated in Traffic Control Detail E.	See comments for Activity 3
2	10 Working Days	Construct New to Existing Roadway Tie-ins	Traffic control for New to Existing Roadway Tie-ins shall generally be in accordance with Figure 6H-12 of the 2009 MUTCD for Temporary Signals. Temporary Signals shall be placed at the approximate locations indicated in Traffic Control Detail F.	Provide Two-Way Flagging For TCB Set-Up and Take Down and Temporary Signal Installation and testing. The contractor shall maintain two-way traffic at all times utilizing temporary signals.
3	10 Working Days	Remove Temporary Widening Pavement and Existing Roadway Approach Tie-ins.	Traffic control for Temporary Pavement Widening and Existing Roadway Approach Tie-ins shall be in accordance with Figure 6H-10 of the 2009 MUTCD at the approximate locations indicated in Traffic Control Detail G.	See comments for Activity 3
3	75 Working Days	Shift Traffic to New Roadway and Remove Existing Roadway Approaches and Bridge	Traffic control for removal of roadway approch tie-ins shall be in accordance with Traffic Control Detail H.	Maintain Traffic on new roadway The contractor shall maintain one through lane in each direction at all times.
3	2 Working Days	Place Final Pavement Markings	Traffic control for placement of final pavement marking shall be in accordance with Figure SA-19A of the 2025 ADOT Trafic Control Design Guidelines.	The contractor shall maintain two-way traffic at all times.

The above does not constitute a sequence of construction.

Professional Engineer Certificate No. RICHARD L. GALASKA Date Signed 6/27/25 Arizona, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

MAITAINANCE OF TRAFFIC TABLE

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	33	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

Item No.	Description	Method of Measurement	Activity 1	Activity 1	Activity 1	Activity 2	Activity 2	Activity 3	Activity 3	**TOTAL**
7010025	Temporary Impact Attenuator (Energy Absorbing Terminal)	EACH	0	0	2	0	0	6	0	8
7010026	Temporary Impact Attenuator (EAT)(In Use)	Each Day	0	0	60	20	24	60	0	164
7015010	Temporary Concrete Barrier (Install and Remove)	LN FT	0	0	790	0	0	3,800	0	4,590
7016020	TEMPORARY CONCRETE BARRIER (IN USE)	LFT/Day	0	0	23,700	7,900	9,480	19,000	0	60,080
7016030	BARRICADE (TYPE II, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	9,700	0	0	500	1,080	0	500	11,780
7016031	BARRICADE (TYPE III, HIGH LEVEL FLAG TREES)	EACH-DAY	0	0	0	20	24	0	20	64
7016032	PORTABLE SIGN STANDS (RIGID)	EACH-DAY	0	0	0	30	36	50	30	146
7016033	PORTABLE SIGN STANDS (SPRING TYPE)	EACH-DAY	0	0	0	30	36	50	30	146
7016035	WARNING LIGHTS (TYPE A)	EACH-DAY	6,790	0	0	0	0	100	0	6,890
7016037	WARNING LIGHTS (TYPE C)	EACH-DAY	9,700	0	0	500	1,080	0	500	11,780
7016039	EMBEDDED SIGN POST	EACH-DAY	6,790	0	0	0	0	0	0	6,790
7016050	TRUCK MOUNTED ATTENUATOR	EACH-DAY	2	0	2	0	0	2	0	6
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	0	0	0	20	24	40	20	104
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	6,790	0	0	60	72	60	60	7,042
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	970	0	0	0	0	0	0	970
7016075	FLAGGING SERVICES(CIVILIAN)	HOURS	0	0	48	240	384	0	240	912
7016081	FLAGGING SERVICES(DPS)	HOURS	20	0	20	20	20	0	0	80
7017020	TEMPORARY AND PORTABLE TRAFFIC CONTROL SIGNAL (INSTALL & REMOVE)	L.Sum	0	0	0	0	0	1	0	1
7017025	TEMPORARY AND PORTABLE TRAFFIC CONTROL SIGNAL (IN USE)	Each Day	0	0	0	0	0	10	0	10

Registered Professional Engineer CERTIFICATE NO. 37605 RICHARD L. GALASKA Date Signed 6/1/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL
QUANTITIES TABLE

ROUTE SR 96
MILEPOST
STRUCTURE NO.

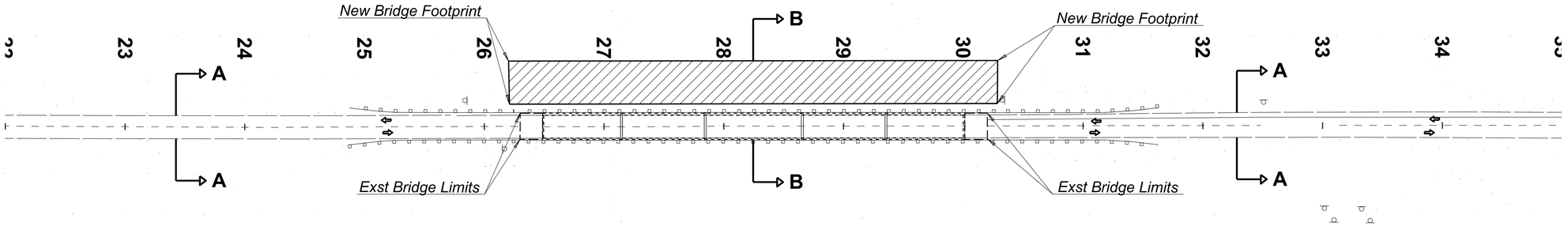
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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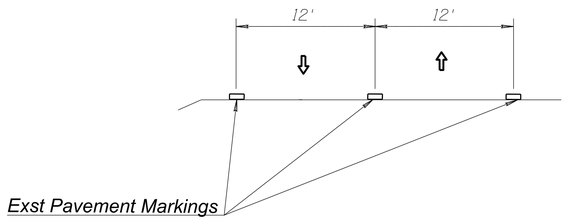
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

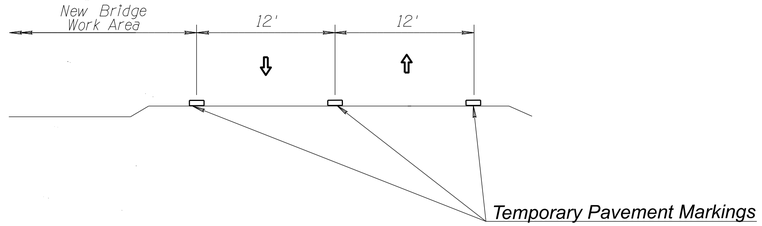


Exst Sta 7+00+/- to Sta 26+30+/-
Exst Sta 30+40+/- to Sta 47+00+/-



SECTION A-A

Exst Sta 26+30+/- to Sta 30+40+/-



SECTION B-B

DETAIL B

Sheet 1 of 1

CONSTRUCT NEW BRIDGE

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — CERTIFICATE NO. 37665 — RICHARD L. GALASKA — Date Signed 3/17/26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

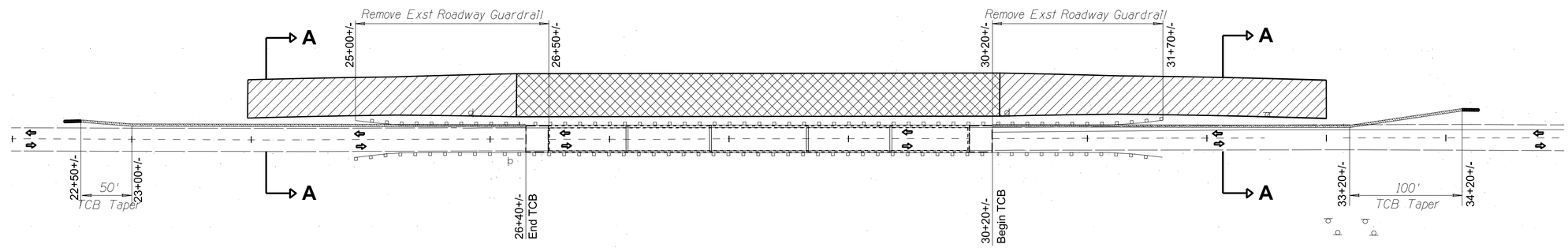
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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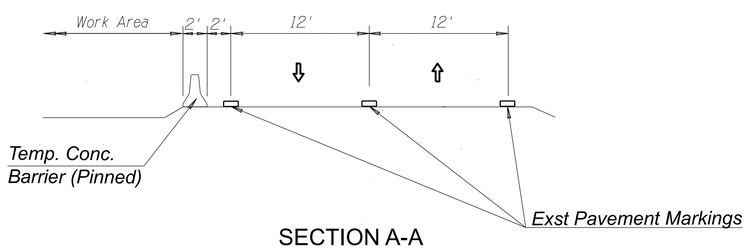
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___



Exst Sta 22+50+/- to Sta 26+40+/-
Exst Sta 30+20+/- to Sta 34+20+/-



SECTION A-A

WORK ZONE

CONTINUING BRIDGE CONSTRUCTION

DETAIL C

Sheet 1 of 1

CONSTRUCT NEW ROADWAY APPROACHES

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

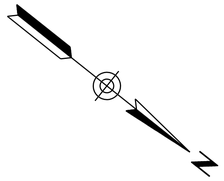
F.H.W.A. Arizona Division

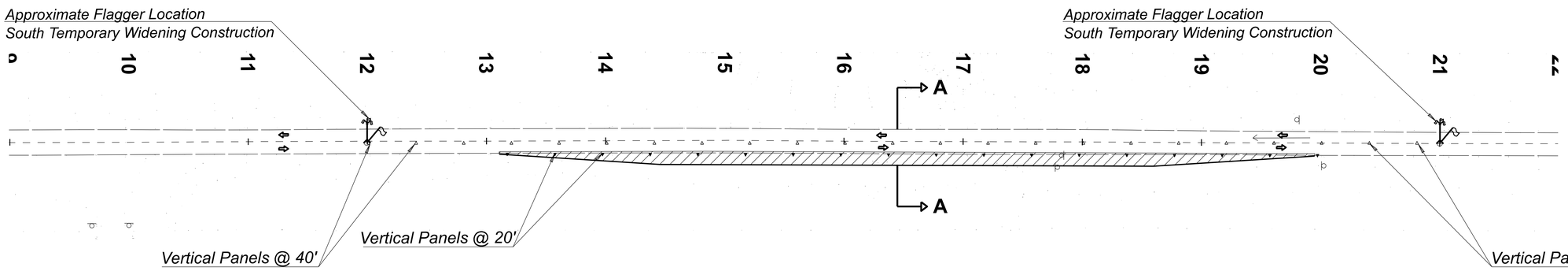
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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LOCATION SANTA MARIA RIVER BRIDGE

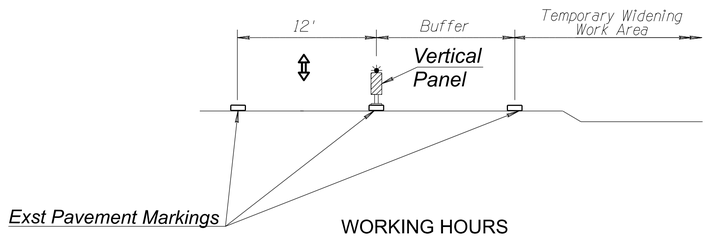
TRACS NO. F0584 01C

SHEET OF ___ OF ___



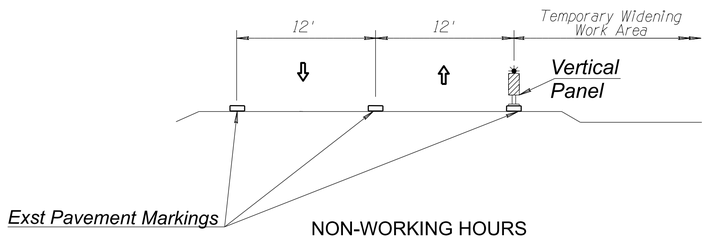


Exst Sta 12+00+/- to Sta 21+00+/-



WORKING HOURS
SECTION A-A

Exst Sta 12+00+/- to Sta 21+00+/-



NON-WORKING HOURS
SECTION A-A

WORK ZONE

DETAIL D

Sheet 1 of 2

CONSTRUCT SOUTH END TEMPORARY WIDENING

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer – Civil
CERTIFICATE NO.
RICHARD L. GALASKA
Date Signed 4/1/26
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

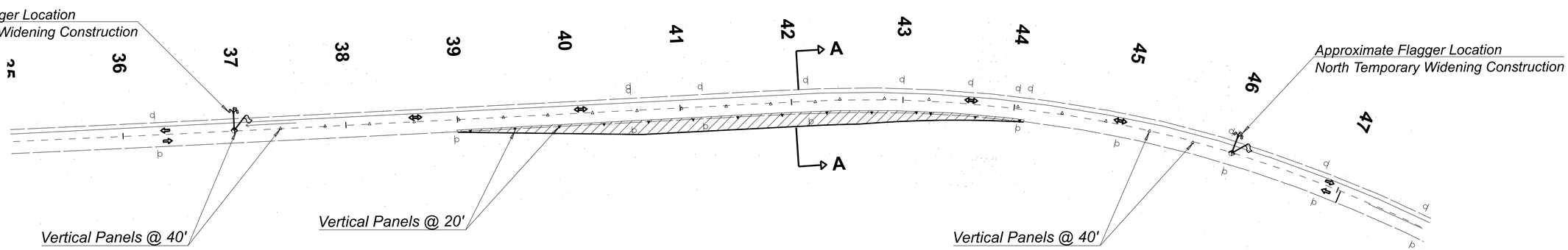
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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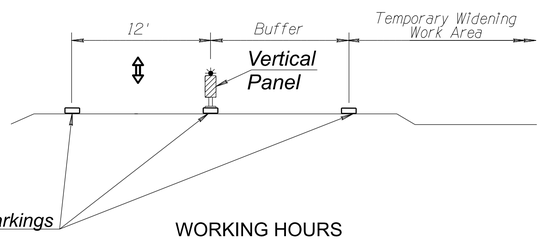
LOCATION SANTA MARIA RIVER BRIDGE

SHEET ___ OF ___

TRACS NO. F0584 01C

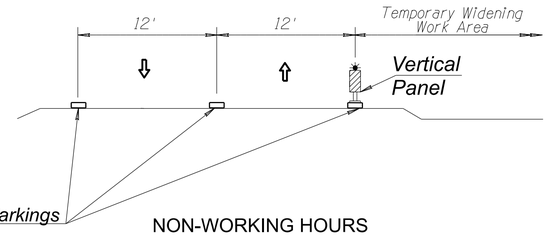


Exst Sta 39+00+/- to Sta 44+00+/-



WORKING HOURS
SECTION A-A

Exst Sta 39+00+/- to Sta 44+00+/-



NON-WORKING HOURS
SECTION A-A

WORK ZONE

DETAIL D

Sheet 2 of 2

CONSTRUCT NORTH END TEMPORARY WIDENING

Registered Professional Engineer — Certificate No. 24965 — RICHARD L. GALASKA — Date Signed 3/17/26 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

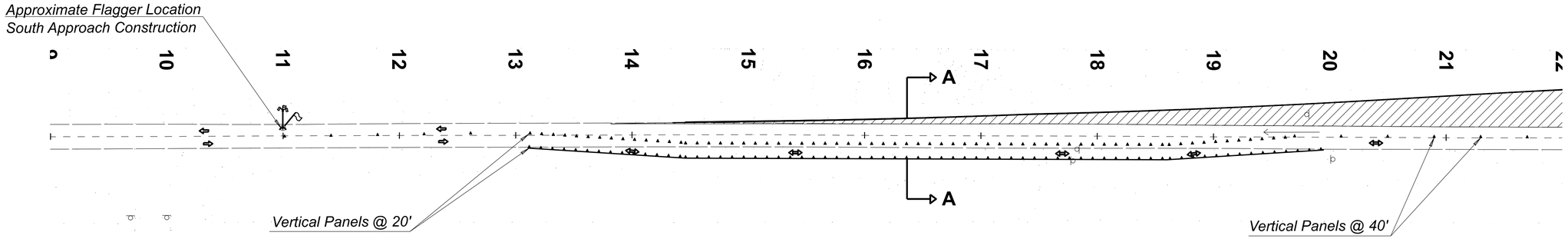
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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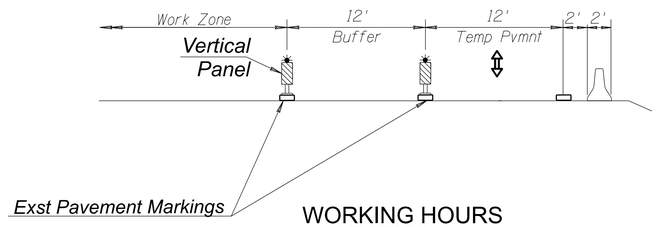
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

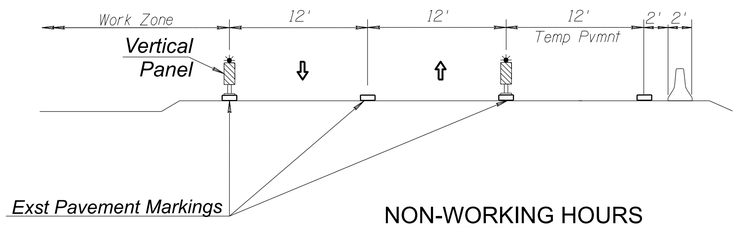


Exst Sta 11+00+/- to Sta 24+00+/-



WORKING HOURS
SECTION A-A

Exst Sta 11+00+/- to Sta 24+00+/-



NON-WORKING HOURS
SECTION A-A

WORK ZONE

DETAIL E

Sheet 1 of 3

CONSTRUCT ROADWAY APPROACHES

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

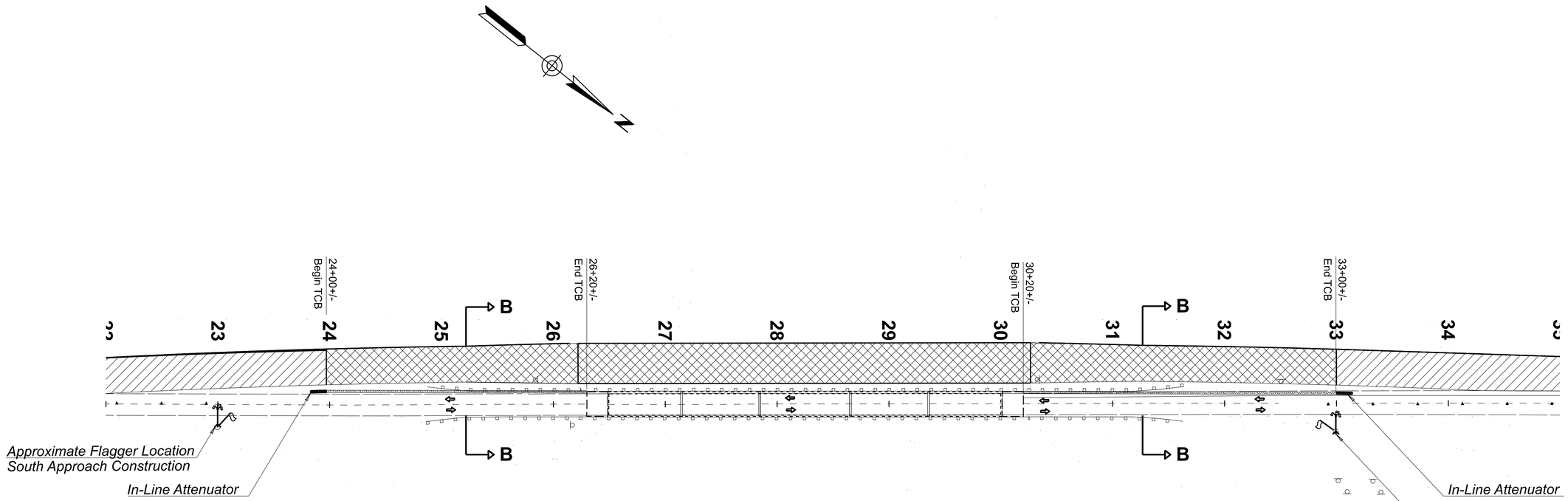
ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	39	100	
MILEPOST						
STRUCTURE NO.						

F.H.W.A. Arizona Division

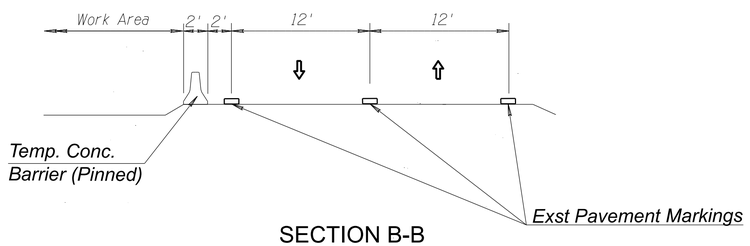
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___



Exst Sta 23+00+/- to Sta 33+00+/-



SECTION B-B

WORK ZONE

COMPLETED CONSTRUCTION ACTIVITIES

DETAIL E

Sheet 2 of 3

CONSTRUCT ROADWAY APPROACHES

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — CERTIFICATE NO. 21563 — RICHARD L. GALASKA — State of ARIZONA, U.S.A. — 3/17/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

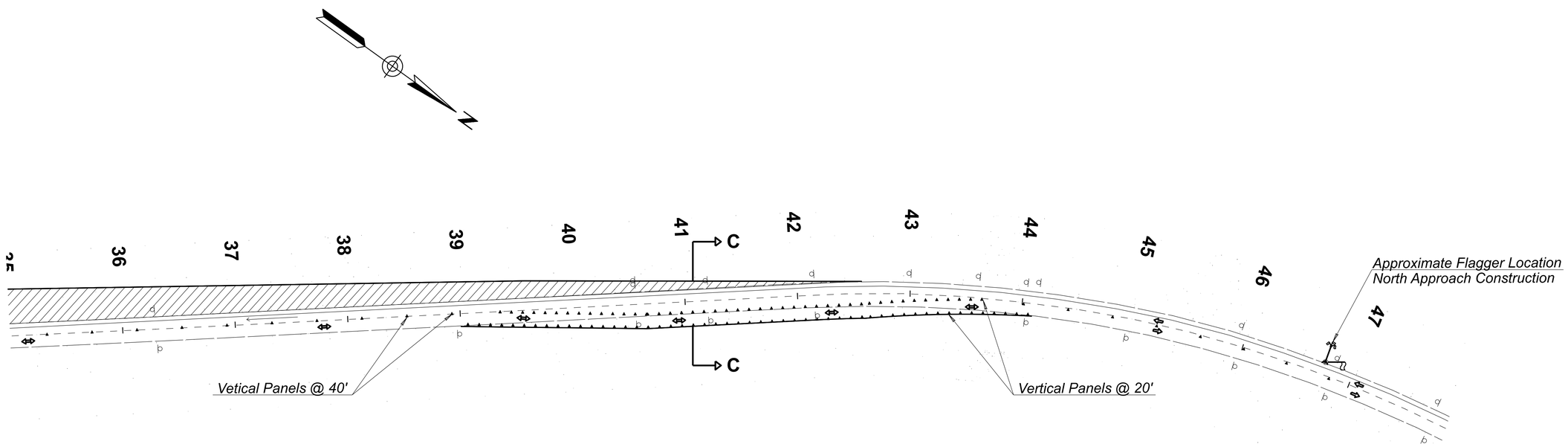
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	40	100	

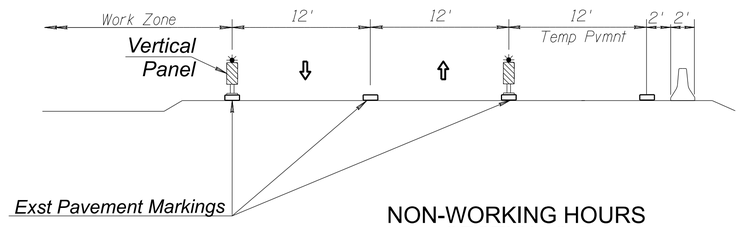
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

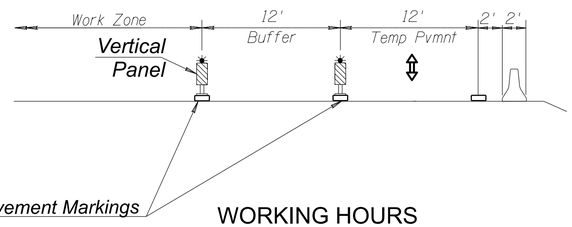


Exst Sta 33+00+/- to Sta 45+00+/-



NON-WORKING HOURS
SECTION C-C

Exst Sta 33+00+/- to Sta 45+00+/-



WORKING HOURS
SECTION C-C

WORK ZONE

DETAIL E

Sheet 3 of 3

CONSTRUCT ROADWAY APPROACHES

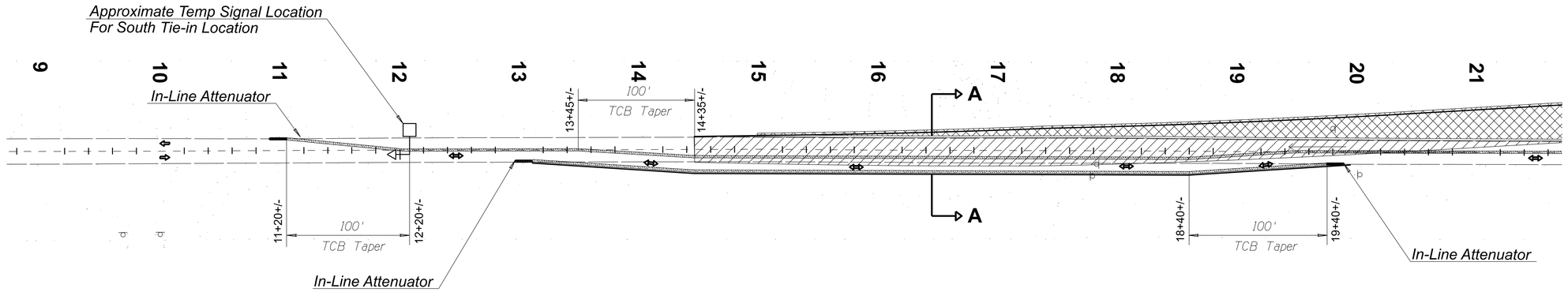
	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — CERTIFICATE NO. 37665 — RICHARD L. GALASKA — Date Signed 1/12/26 — ARIZONA, U.S.A.

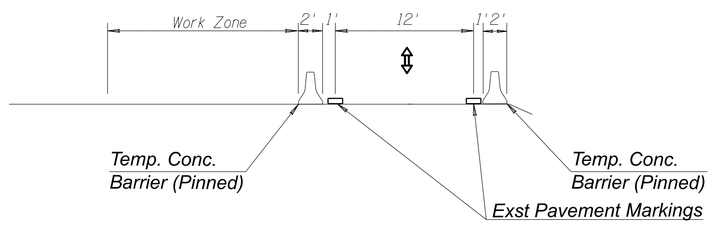
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	41	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET	OF
STRUCTURE NO.	TRACS NO. F0584 01C					___	OF___



Exst Sta 12+00+/- to Sta 23+00+/-



SECTION A-A

WORK ZONE

COMPLETED ROADWAY CONSTRUCTION

DETAIL F

Sheet 1 of 3

CONSTRUCT SOUTH END ROADWAY TIE-INS

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

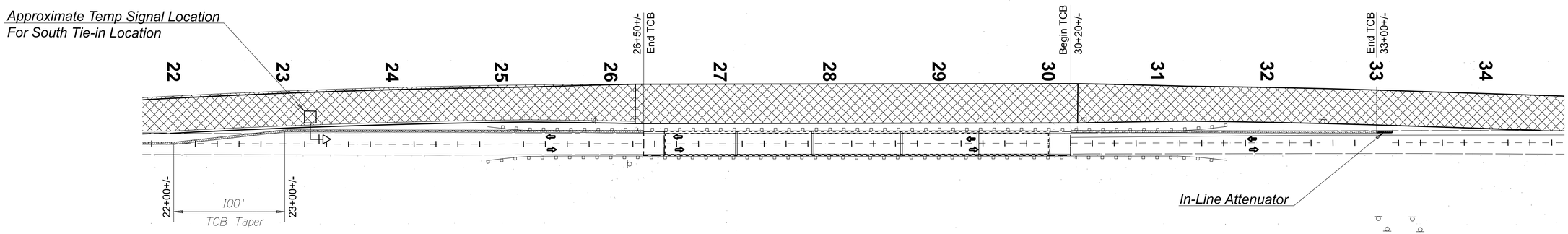
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	42	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET OF ___ OF ___

B2719 3/17/2026 6:04:53 AM Z:\AZDOT\Configuration\WorkSpaces\AZDOT-2021R1\WorkSets\f0584\dgn\Traffic\F 0584 TC Dtl F.dgn \ Model Name: SR99 - Plan 1 [Sheet]



COMPLETED ROADWAY CONSTRUCTION

DETAIL F

Sheet 2 of 3

CONSTRUCT ROADWAY TIE-INS

Professional Engineer CERTIFICATE NO. 37965 RICHARD L. GALASKA Date Signed 3/17/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

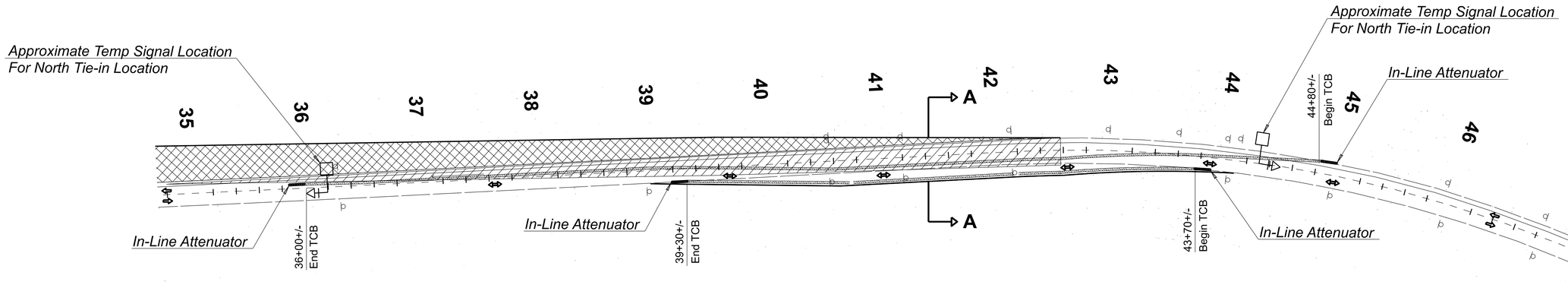
F.H.W.A. Arizona Division

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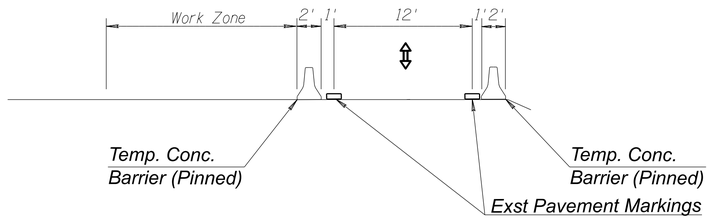
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET OF ___ OF ___



Exst Sta 36+00+/- to Sta 45+00+/-



SECTION A-A

WORK ZONE

COMPLETED ROADWAY CONSTRUCTION

DETAIL F

Sheet 3 of 3

CONSTRUCT NORTH END ROADWAY TIE-INS

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — CERTIFICATE NO. 37665 — RICHARD L. GALASKA — Date Signed 3/17/26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

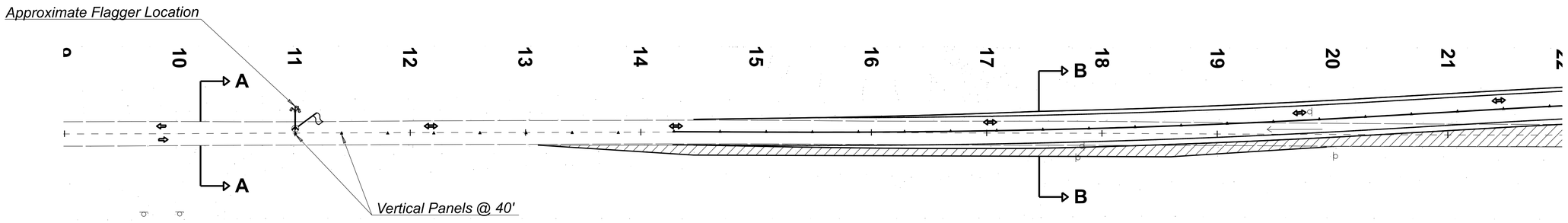
ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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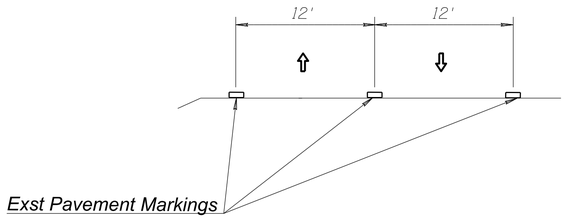
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

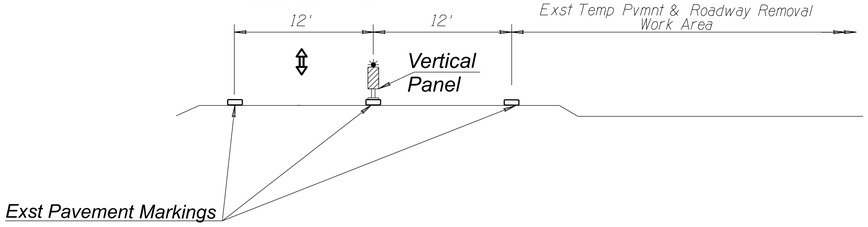


Exst Sta 9+00+/- to Sta 11+00+/-



SECTION A-A

Exst Sta 11+00+/- to Sta 22+00+/-



SECTION A-A

WORK ZONE

DETAIL G

Sheet 1 of 3

REMOVE TEMP PVMNT & EXST ROADWAY

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — Richard L. Galaska — Date Signed 3/17/26 — Arizona, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

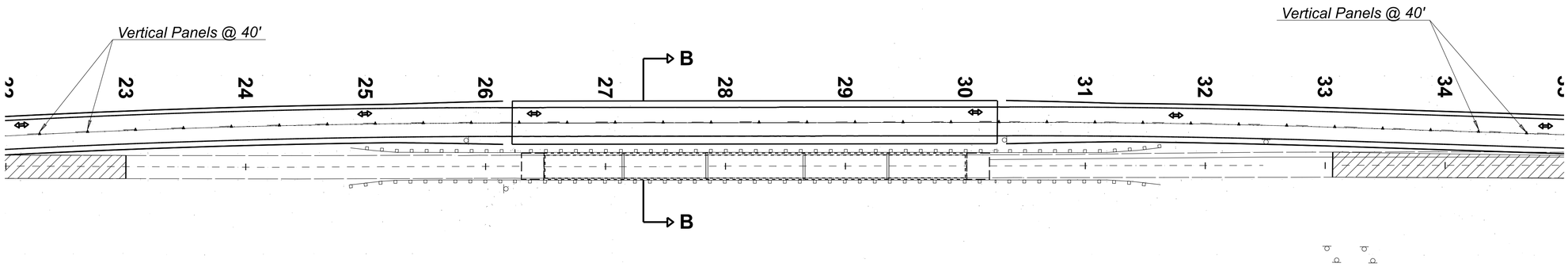
F.H.W.A. Arizona Division

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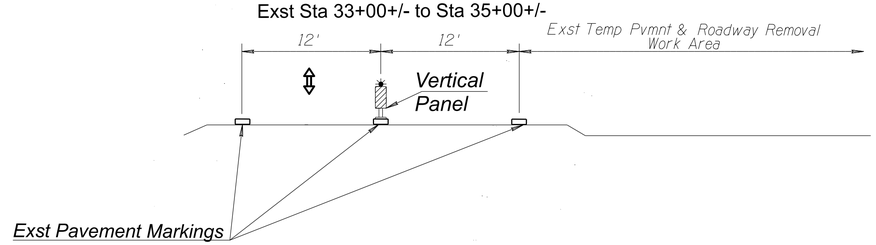
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET OF ___ OF ___



Exst Sta 11+00+/- to Sta 22+00+/-
Exst Sta 33+00+/- to Sta 35+00+/-



SECTION B-B

WORK ZONE

DETAIL G

Sheet 2 of 3

REMOVE TEMP PVMNT & EXST ROADWAY

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

Registered Professional Engineer — Certificate No. 37465 — RICHARD L. GALASKA — Date Signed 3/17/26 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

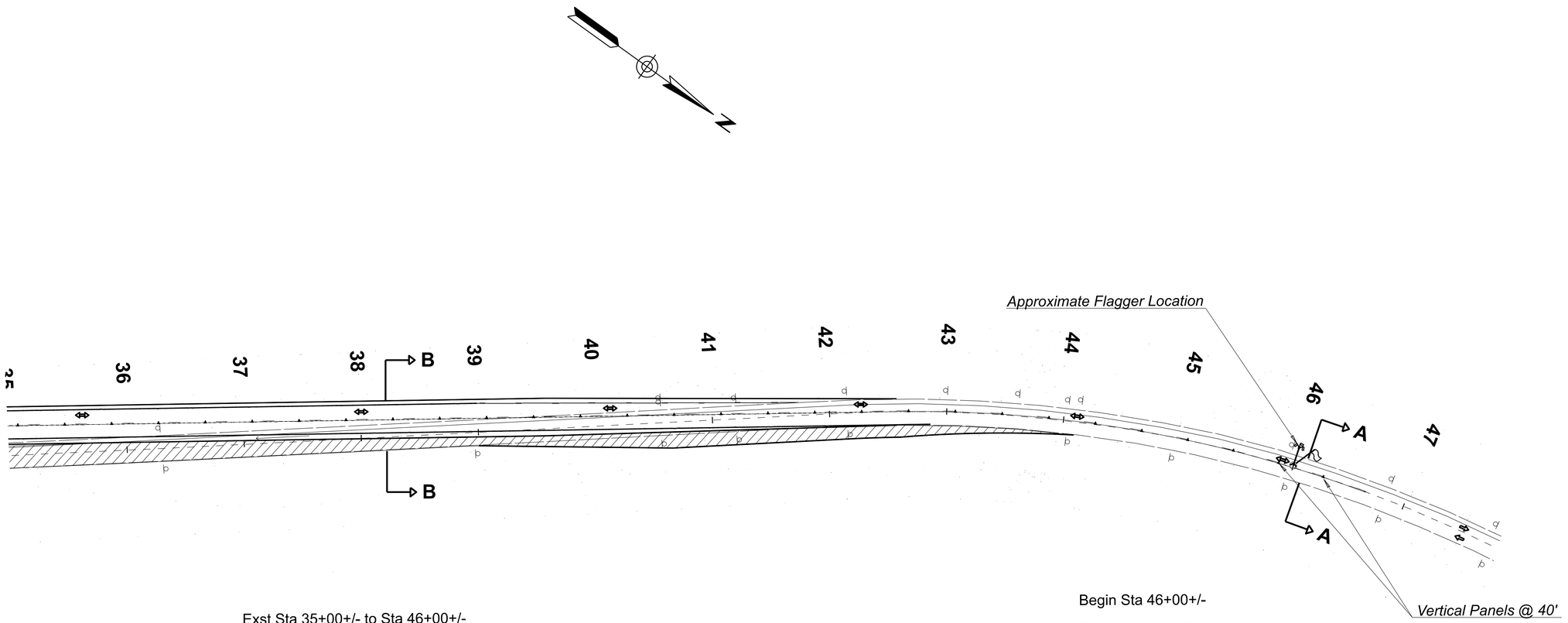
F.H.W.A. Arizona Division

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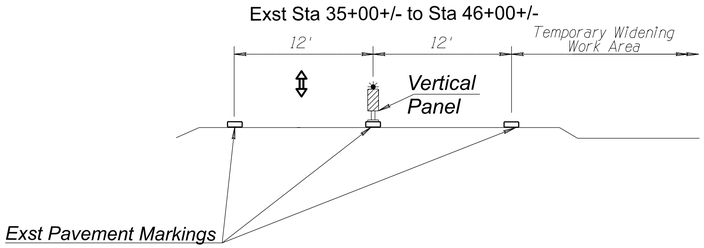
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET OF ___ OF ___

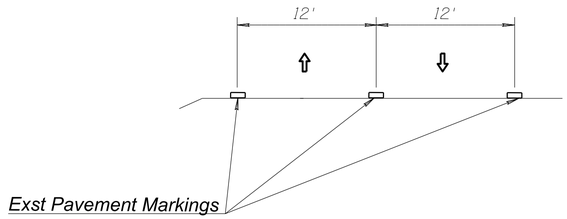


Exst Sta 35+00+/- to Sta 46+00+/-



SECTION B-B

Begin Sta 46+00+/-



SECTION A-A

WORK ZONE

DETAIL G

Sheet 3 of 3

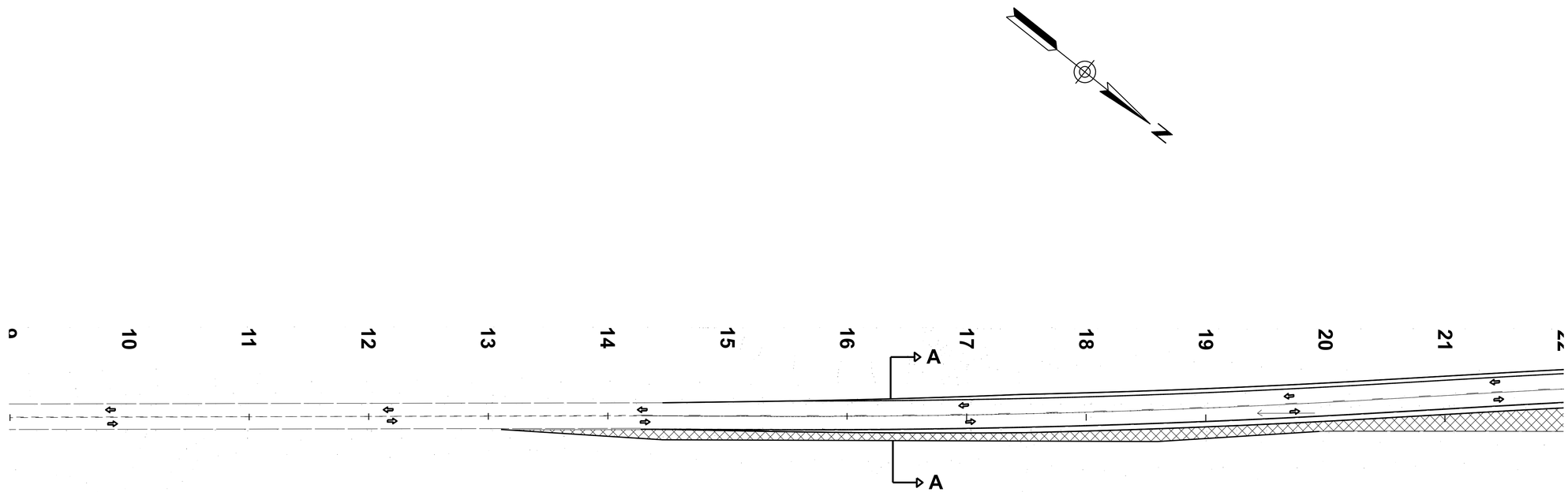
REMOVE TEMP PVMNT & EXST ROADWAY

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

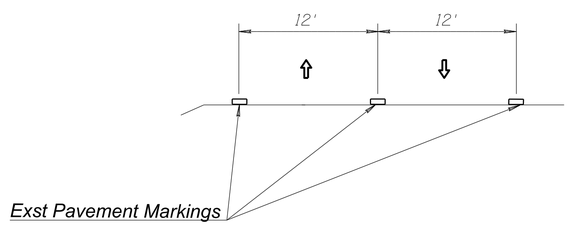
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	47	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE					SHEET	OF
STRUCTURE NO.	TRACS NO. F0584 01C					___	OF___



Exst Sta 12+00+/- to Sta 22+00+/-



SECTION A-A

COMPLETED ROADWAY REMOVAL

DETAIL H

Sheet 1 of 3

REMOVE EXST ROADWAY

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

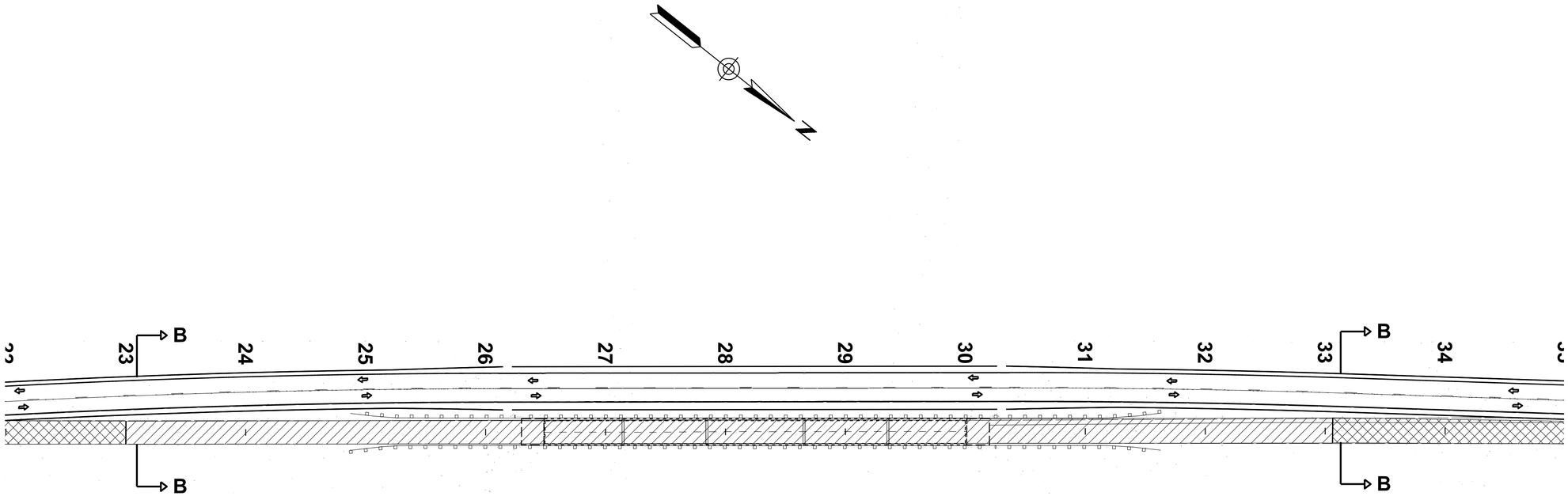
F.H.W.A. Arizona Division

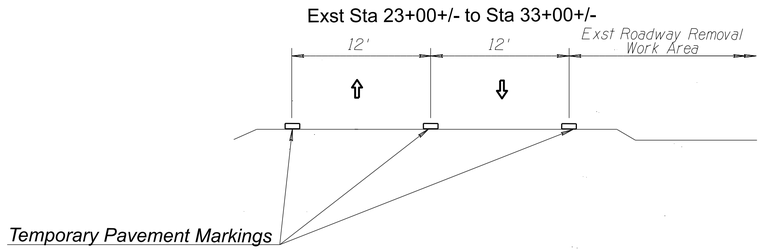
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LOCATION SANTA MARIA RIVER BRIDGE

SHEET ___ OF ___

TRACS NO. F0584 01C





SECTION B-B

WORK ZONE

COMPLETED ROADWAY REMOVAL

DETAIL H

Sheet 2 of 3

REMOVE EXST ROADWAY

Registered Professional Engineer CERTIFICATE NO. 37605 RICHARD L. GALASKA Date Signed 02/26/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

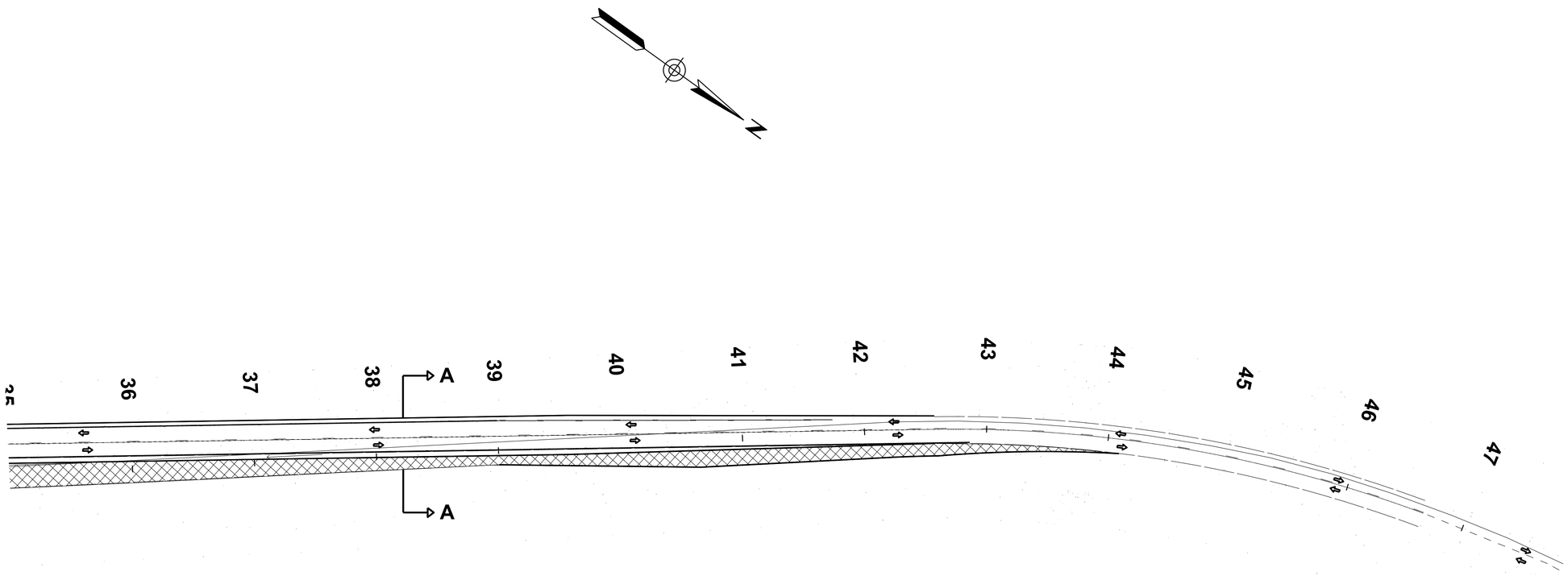
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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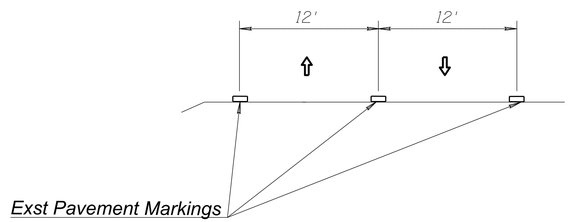
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___



Exst Sta 35+00+/- to Sta 45+00+/-



SECTION A-A

COMPLETED ROADWAY REMOVAL

DETAIL H

Sheet 3 of 3

REMOVE EXST ROADWAY

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DETAIL

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	50	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET ___ OF ___

PAVEMENT MARKING NOTES

1. *The pavement marking plans have been deisgned in accordance with the current version of the ADOT Traffic Engineering Construction Standard Drawings.*

2. *It is the Contractor's responsibilty to ensure that the final surface course is placed so that the striping is offset 1 foot clear of the construction joint, unless otherwise directed by the Engineer.*

3. *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 be a minimum of 55 degree F and rising for the placement of thermoplastic striping.*

4. *At the completion of the final pavement surface each day, center lines, lane lines, edge lines, stop bars, and pavement arrows shall be striped with one application of Type I Waterborne paint at the locations of the permanent striping. The paint shall have a minimum thickness of 15 mils wet. All painted striping shall be 4" wide for 6" lines, 8" wide for 12" lines and 12" wide for stop bars.*

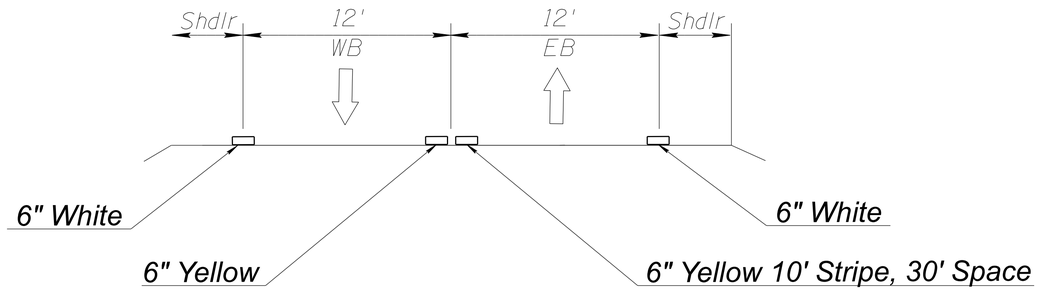
5. *Final striping shall be 120 mil (0.120 inches) thick alkyd extruded thermoplastic reflectorized striping placed over the existing striping, placed at a minimum of 30 calendar days after the initial striping. All other markings shall be applied at the same time.*

6. *The contractor shall contact Kyle Seisinger, Northwest Regional Signing and Striping Superintendent, at 928-277-2925 at least 10 days prior to final striping operations to approve final pavement marking layout.*

PAVEMENT MARKING QUANTITIES

Installed Width	Item Number	Description	Unit of Measurement	Quantity
* 6" Wide	7040007	Pavement Marking (White Extruded Thermoplastic) (0.120")	L. Ft.	9,000
* 6" Wide	7040008	Pavement Marking (Yellow Extruded Thermoplastic) (0.120")	L. Ft.	9000
4" Wide	7080201	Waterborne Type I Pavement Marking (Painted) (White)	L. Ft.	6,000
4" Wide	7080202	Waterborne Type I Pavement Marking (Painted) (Yellow)	L. Ft.	6,000

*** Indicates 4" equivalent**



Typical Section Pavement Marking
Sta 16+00+/- to Sta 40+00+/-

Registered Professional Engineer CERTIFICATE NO. 17605 RICHARD L. GALASKA Date Signed 02/26/26 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	R. GALASKA	02/26
DRAWN	R. GALASKA	02/26
CHECKED		
TEAM LEADER	Q. FAROL	

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION
PAVEMENT MARKING NOTES
PAVEMENT MARKING QUANTITIES
PAVEMENT MARKING TYPICAL SECTION

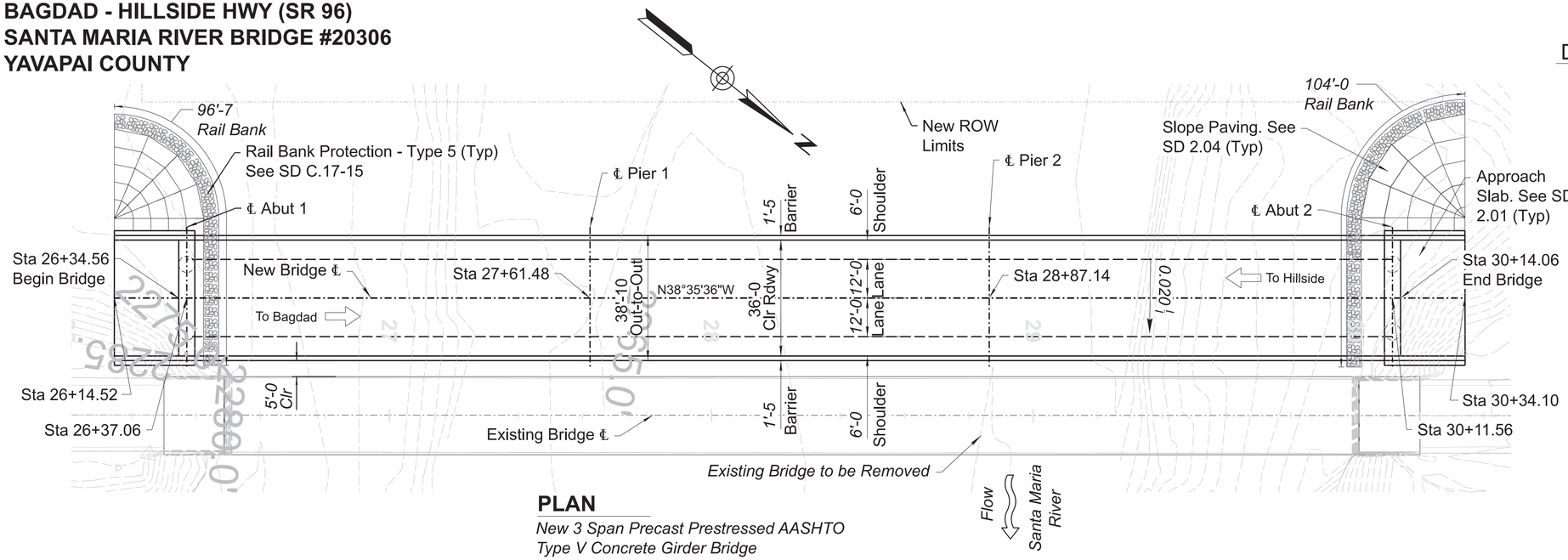
ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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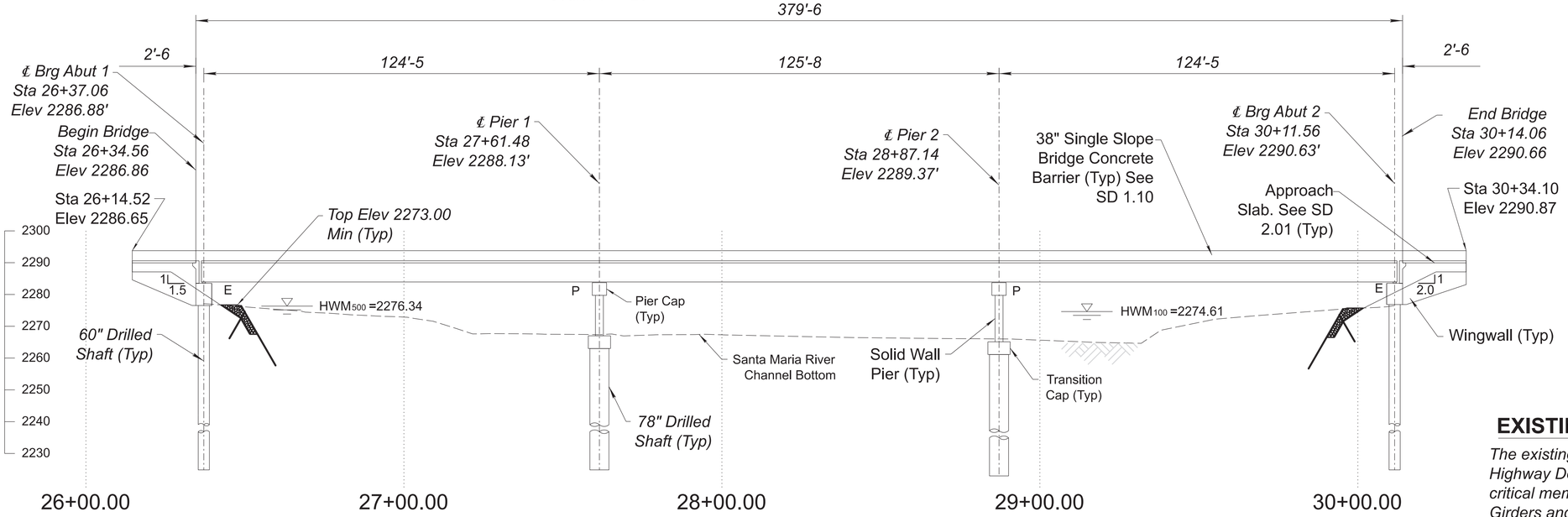
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET OF
____ OF____

BAGDAD - HILLSIDE HWY (SR 96)
SANTA MARIA RIVER BRIDGE #20306
YAVAPAI COUNTY



PLAN

New 3 Span Precast Prestressed AASHTO
Type V Concrete Girder Bridge
Skew = 0°
5'-0 Contour Interval
Scale: 1" = 20'



ELEVATION

Scale: 1" = 20'

INDEX OF DRAWINGS

DWG NO	TITLE
S-1.01	GENERAL PLAN & ELEVATION
S-1.02	TYPICAL SECTION AND QUANTITIES
S-1.03	GENERAL NOTES
S-1.04	FOUNDATION PLAN
S-1.05	DRILLED SHAFT DETAILS
S-1.06	ABUTMENT PLAN AND ELEVATION 1 of 2
S-1.07	ABUTMENT PLAN AND ELEVATION 2 of 2
S-1.08	ABUTMENT DETAILS
S-1.09	WINGWALL DETAILS
S-1.10	PIER PLAN AND ELEVATION
S-1.11	PIER DETAILS 1
S-1.12	PIER DETAILS 2
S-1.13	DECK PLAN
S-1.14	FRAMING PLAN
S-1.15	GIRDER DETAILS 1
S-1.16	GIRDER DETAILS 2
S-1.17	GIRDER DETAILS 3
S-1.18	TYPICAL DECK SECTION AND REINF
S-1.19	DIAPHRAGM DETAILS 1 OF 3
S-1.20	DIAPHRAGM DETAILS 2 OF 3
S-1.21	DIAPHRAGM DETAILS 3 OF 3
S-1.22	EXP JT DETAILS
S-1.23	RESTRAINER & BEARING PAD DETAILS
S-1.24	SLOPE PAVING PLAN
S-1.25	CAMBER DETAILS
S-1.26	SCREED ELEVATIONS

SANTA MARIA RIVER HYDRAULIC DATA -- SANTA MARIA RIVER BRIDGE (NEW)		
Event	100 yr	500 yr
WSE (ft)	2274.61	2276.34
V (fps)	14.43	15.83
Q (cfs)	32678	44289
Pier 1 Scour Depth (ft)	21.20	22.71
Pier 2 Scour El Depth (ft)	21.20	22.71
Abut 1 Scour El Depth (ft)	6.78	13.98
Abut 2 Scour El Depth (ft)	NA*	NA*

*- No scour based on the BHR. For project hydraulic information, see the Final Bridge Hydraulics Report by Drainage Section, Roadway Group, Arizona Department of Transportation (ADOT), date Jun. 2025.

LEGEND:

WSE - Water Surface Elevation
V - Velocity of Flow
Q - Water Flow

EXISTING BRIDGE NOTES:

The existing bridge, Structure No. 00225, was built by the Arizona Highway Department in 1939 under Project No. FAS-4-A(1). Fracture critical membrers in-depth inspection was completed in 2019. Steel Girders and floor beams in all five spans, steel and hanger connections assemblies in span 3 were found fracture critical members.

Registered Professional Engineers (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

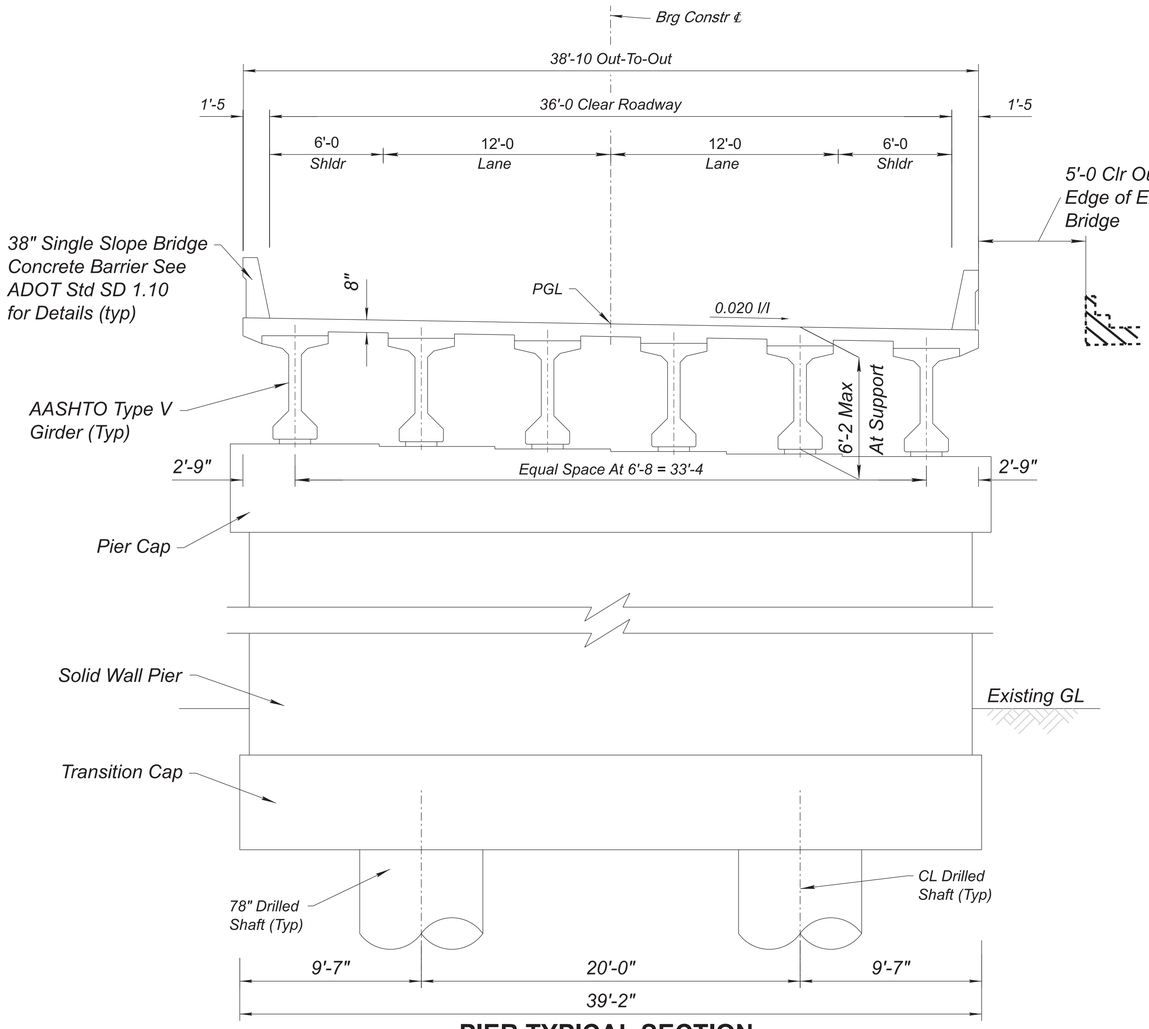
	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
GENERAL PLAN & ELEVATION

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	52	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.01 OF 26
___ OF ___

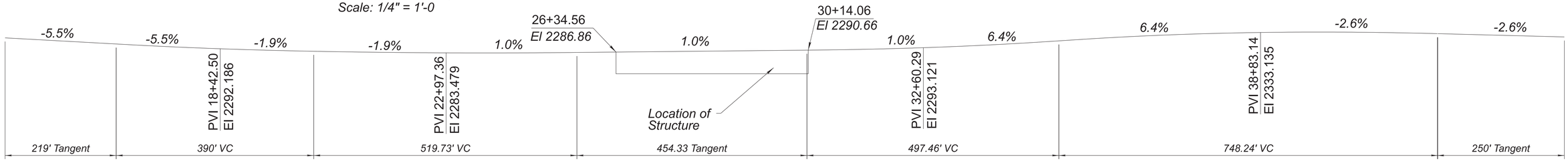


PIER TYPICAL SECTION

(Looking Up Station)
Scale: 1/4" = 1'-0

APPROXIMATE QUANTITIES								
	Struct Excavation	Struct Backfill	Class 'S' Concrete		Reinf	AASHTO Type V Girders	Drilled Shaft 60"ϕ	Drilled Shaft 78"ϕ
			f'c=3500psi	f'c=4500psi				
	CY	CY	CY	CY	LBS	LF	LF	LF
Abutment 1	350	135	96	27	16,490		150	
Pier Wall 1	130	65	138	26	32,345			170
Pier Wall 2	130	65	142	26	33,105			170
Abutment 2	350	135	116	27	18,145		150	
Superstructure				387	244,170	2,244		
Total	960	400	492	493	344,255	2,244	300	340
Record Drawing total								
Structural Excavation and Structure Backfill have been estimated in accordance with ADOT Std 5.01 and SD 5.02								

REMOVE BRIDGE	1	L. SUM
SINGLE SLOPE BRIDGE CONCRETE BARRIER AND TRANSITION (38") (SD 1.10)	839	L. FT.
DECK JOINT ASSEMBLY (FLANGELESS STRIP SEAL) (SD 3.03)	78	L. FT.
APPROACH SLAB (SD 2.01)	1,554	SQ. FT.
RESTRAINERS, VERTICAL EARTHQUAKE (FIXED)	16	EACH
RESTRAINERS, VERTICAL EARTHQUAKE (EXPANSION)	6	EACH



PROFILE GRADE - SR 96

NTS

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
TYPICAL SECTION AND QUANTITIES

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 53 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.02 OF 26

____ OF ____

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction (ADOT SSRBC), Edition of 2021.

Design Specifications -
Structural Design Work:
AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017, and 2018 Errata, except as superseded by ADOT Bridge Design Guidelines.

Dead Load -
Dead load includes an allowance for 25 psf for future wearing surface (FWS). The composite design section excludes the top $\frac{1}{2}$" of concrete slab thickness and the entire flange build up.

Live Load -
Loading Class HL-93

Inventory and Operating Ratings are in accordance with the AASHTO Manual for Bridge Evaluation, 3rd Edition, as modified by the ADOT Bridge Load Rating Guidelines, and in accordance with the Load and Resistance Factor Rating Method.

Rating Factor
Inventory Load Rating - 1.26
Operating Load Rating - 2.14

Seismic
Bridge Site is classified as Seismic Zone 1, Site Class C with Peak Ground Acceleration A_s = 0.105g and S_{ss} = 0.243g at 0.2 Sec., S_{s1} = 0.098g at 1.0 sec., as modified by the appropriate Site Factors. Details refer to the Geotechnical Report.

Prestressing steel strands shall conform to ASTM A416 (AASHTO M203), Grade 270, Low Relaxation Strands.

Transformed sections for prestressing strands was used for girder analysis.

Reinforcing steel shall conform to ASTM specification A615 (AASHTO M31) or ASTM A706. Reinforcing specifically shown to be welded in the plans shall conform to ASTM A706.

All reinforcing steel shall be Grade 60, unless noted Otherwise.

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

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

All mechanical splices shall conform to the requirements for mechanical connections in subsection 605-3.02 specifications.

Mechanical Splices may be used at all construction joints and formed joints where reinforcing must pass between pours, unless noted otherwise.

All concrete shall be ADOT Class "S", unless noted otherwise.

Chamfer all exposed corners $\frac{3}{4}$", unless noted otherwise. See detail this sheet.

GENERAL NOTES (CONT'D):

Concrete bridge decks and approaches shall be textured with a broom finish.

All construction joints shall be intentionally roughened to an amplitude of $\frac{1}{4}$" unless noted otherwise, and be cleared of dirt, oil and otherwise deleterious debris.

Rail bank protection below the new bridge shall be placed before the superstructure.

Barriers shall be constructed after spans have taken dead load deflection. Barriers shall not be slip formed.

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

Existing bridge stations, elevation and dimensions are based on record drawings that do not necessarily correspond to structure conditions now existing. Stations, elevations and dimensions in the field may vary from those shown. Contractor shall verify all relevant dimensions in the field prior to fabrication of any material. Any discrepancies shall be brought to the attention of the Engineer and shall be resolved prior to proceeding with the work.

Refer to roadway plans for the construction of the new roadway.

All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding code, 6th edition, with Interim Revisions through 2015.

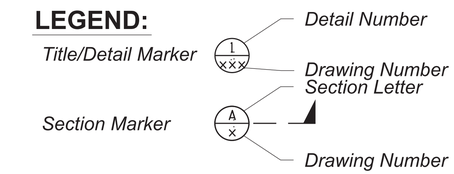
Unless noted otherwise, Expansion Abutment diaphragms shall be poured prior to the deck pour. Pinned Pier diaphragms shall be poured with the deck pour, but shall not reach initial set until the adjacent spans have been poured. Contractor shall submit a Deck Pour Sequence to the Engineer for approval.

Plan view drawings include existing topographical, lighting, signing, FMS/ITS and drainage features that are not drawn to scale indicated. Refer to applicable plans to determine the actual size of these features.

Dimensions shall not be scaled from drawings.

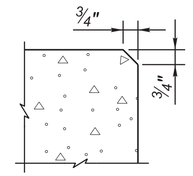
Material strengths (unless noted otherwise):
Deck and Diaphragm.....f'c = 4.5 ksi
Precast Prestressed Beams ..... f'ci = See Girder Detail Sheets
f'c = See Girder Detail Sheets
Barriers and Approach Slabs ..... f'c = 4.0 ksi
Abutments, Piers, and Drilled Shafts ..... f'c = 3.5 ksi
All other Class 'S' concrete ..... f'c = 3.0 ksi
Prestressing Steel (0.6" Dia 7-wire Low Relaxation Strands)..... fpu = 270.0 ksi
Reinforcing Steel ..... fy = 60.0 ksi
Deck Transverse Reinforcing Steel ..... fs = 24.0 ksi

LEGEND:



NOTE:

A line (---) in place of the Drawing Number indicates that the SECTION or DETAIL is located on the same Drawing from which the SECTION or DETAIL is cut.



CHAMFER DETAIL 1

No Scale

STANDARD DRAWING LIST:

ADOT Bridge Group Structure Detail (SD) Drawings:
1.10, 2.01, 2.04, 3.03, 5.01, 5.02

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/26/2026 ARIZONA, U.S.A.

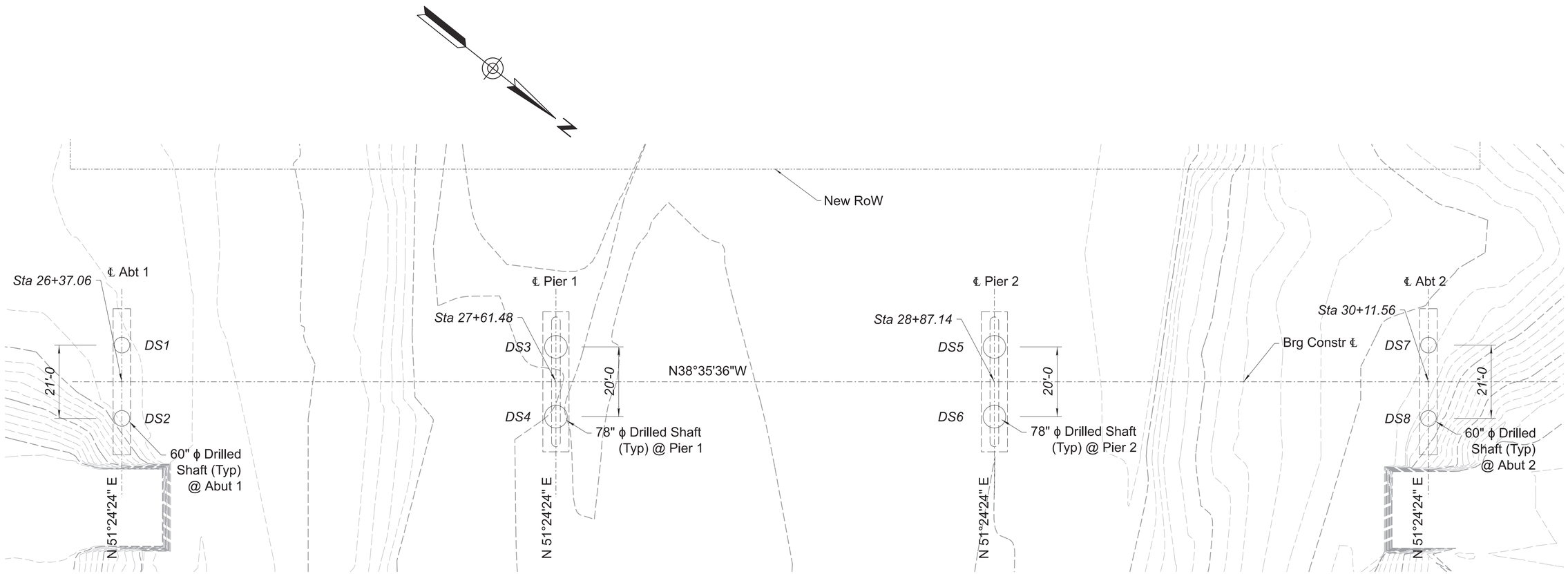
	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
GENERAL NOTES

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	54	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.03 OF 26
____ OF____



FOUNDATION PLAN

Scale: 1" = 15'-0

FOUNDATION NOTES:

1. Information pertaining to the nature of the soil and the site conditions available through Contracts and Specifications website.
2. It is the responsibility of the prospective bidders to review the Geotechnical and Foundation Investigation Report available through Contracts and Specifications website.
3. For Confirmation Shaft requirements, the contractor shall refer to Section 609-3.02 of ADOT Construction Manual which is available through ADOT Engineering and Construction website.
4. Drilled Shaft embedment lengths are based on interpreted data and shall be considered tentative. The contractor shall notify the Engineer a minimum of 48 hours prior to any drilling operation to allow time for a qualified representative to witness the drilling eperation and assist the Engineer in soil interpretations.
5. Groundwater may be present during drilled shaft construction. The use of an approved slurry shall be permitted for the stabalization of Drilled Shaft excavations.
6. Pier cap not shown for clarity.
7. Refer to DWG S-1.24 for shoring notes.

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
FOUNDATION PLAN

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

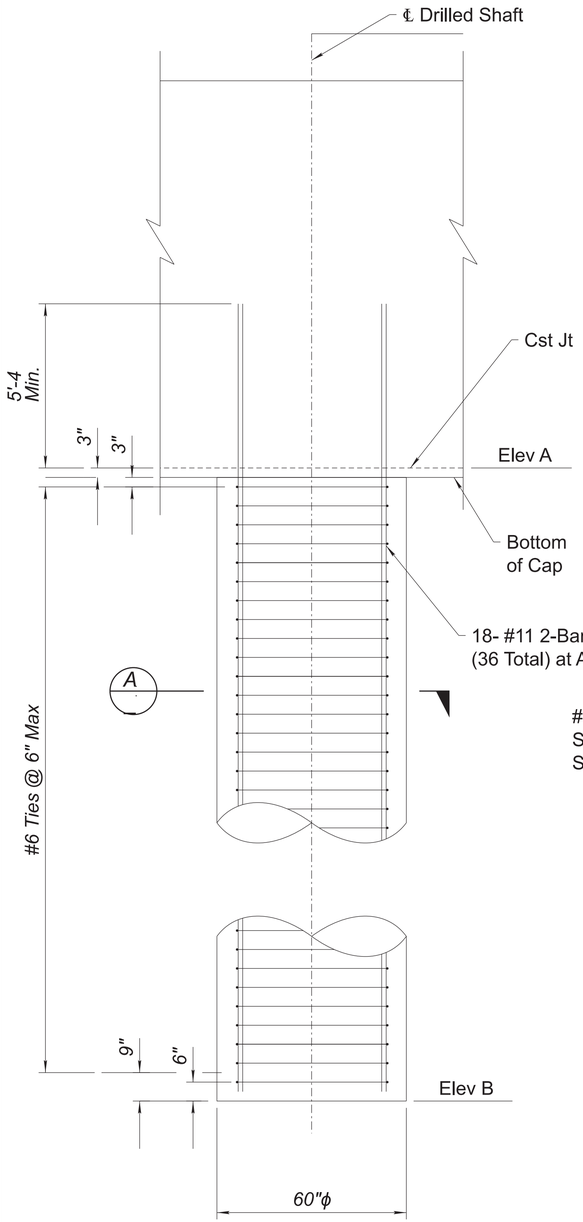
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	55	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

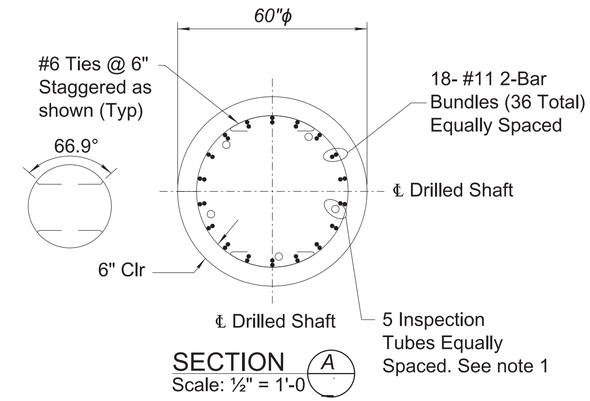
SHEET S-1.04 OF 26

____ OF____

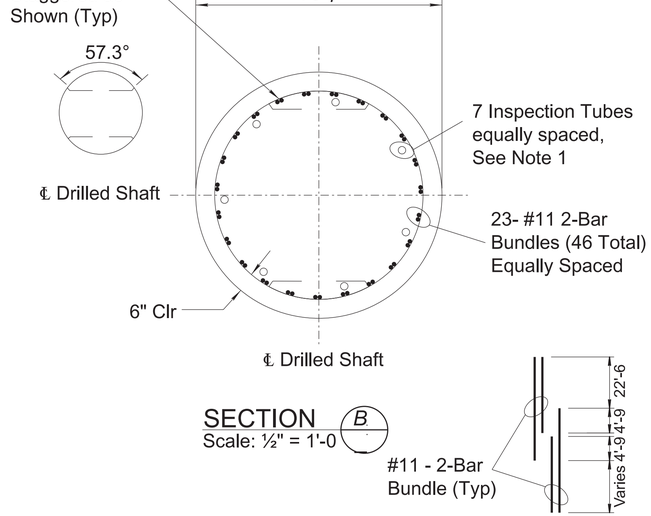


TYPICAL DRILLED SHAFT AT ABT

Scale: ½" = 1'-0



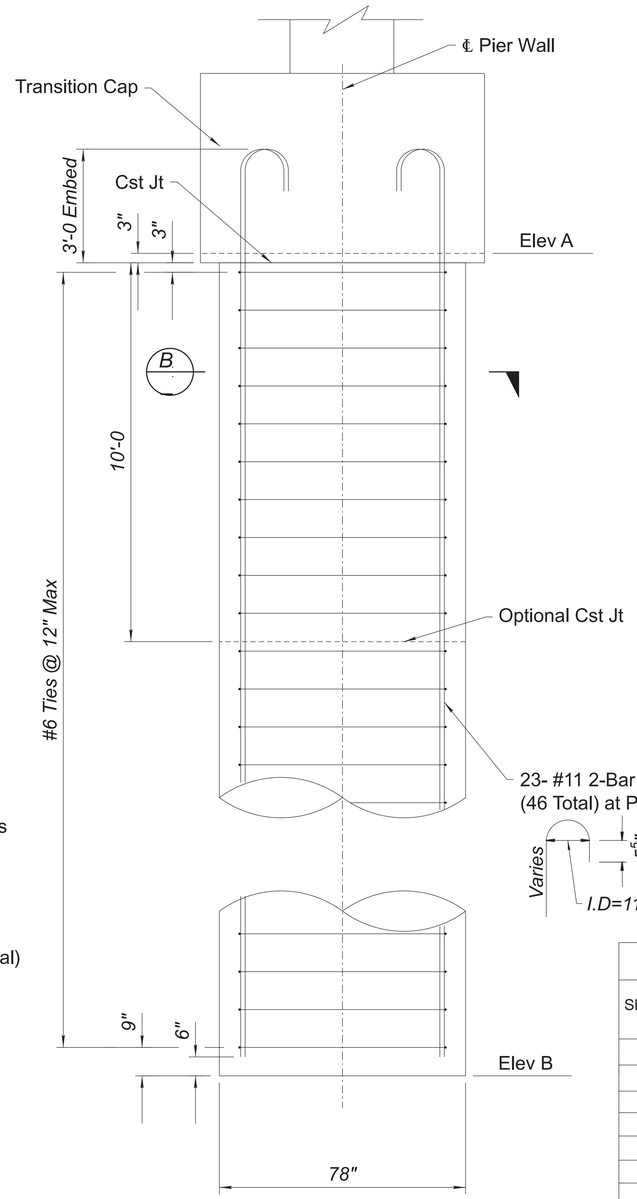
SECTION A
Scale: ½" = 1'-0



SECTION B
Scale: ½" = 1'-0

#11 BUNDLE LAP SPLICE DETAIL

Scale: Not To Scale



TYPICAL DRILLED SHAFT AT PIER

Scale: ½" = 1'-0

NOTES:

1. Integrity testing conduit tubes shall not be attached to longitudinal reinforcing, and shall be placed inside the reinforcing cage at an equal distance apart and in accordance with section 609 of the specifications.
2. In the event of a weak layer (silt, clay, loose sand, etc.) at the recommended elevation of the shaft bottom, the shaft shall be extended to bear on firm soil as determined by the Engineer.
3. Concrete shall be placed within 24 hours after excavation has been completed and the reinforcing cage placed in its position.
4. Any construction joint not shown on the project plans shall require the approval of the Engineer prior to construction.
5. Drilled shaft excavation is not perimitted within 48 hours of completion of concrete placement of an adjacent drilled shaft. An adjacent drilled shaft is any drilled shaft within 4 diameters measured center to center.
6. Each tie hook shall engage a vertical reinforcing bar.
7. All reinforcing steel in the drilled shafts, including splices, reinforcing embedded in the cap, any temporary casing, and any additional concrete required for oversized casings shall be considered included in the pay item for Drilled Shafts.
8. Adjust vertical reinforcements adjacent to inspection tube up to $\frac{1}{2}$" to provide required minimum clearance between bars and inspection tubes.
9. Refer to the Geotechnical Report for the detailed recommendations on the temporary and permanent casing.
10. All reinforcing steel in the drilled shafts, including splices, any casing, and any additional concrete required for oversized casing shall be considered included in the pay item for Drilled Shafts.

DRILLED SHAFT TABLE

Shaft No	Elev A	Elev B	Service Load	Strength Load	Settlement
	(ft)	(ft)	(kips)	(kips)	(inch)
1	2272.53	2197.53	854	1131	0.131
2	2272.53	2197.53	854	1131	0.131
3	2257.30	2172.30	1421	1924	0.227
4	2257.30	2172.30	1421	1924	0.227
5	2257.30	2172.30	1421	1924	0.227
6	2257.30	2172.30	1421	1924	0.227
7	2274.28	2199.28	854	1131	<0.100
8	2274.28	2199.28	854	1131	<0.100

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

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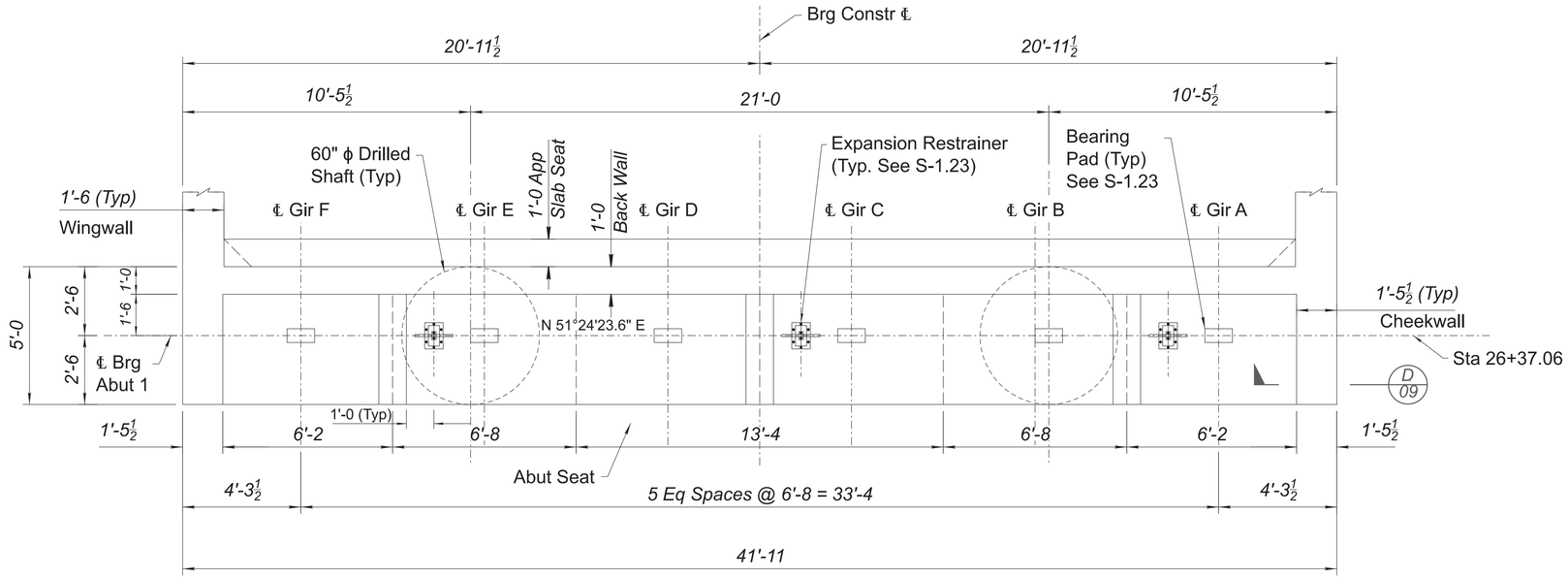
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
DRILLED SHAFT DETAILS

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

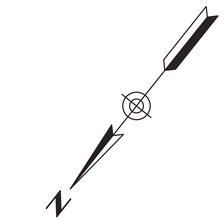
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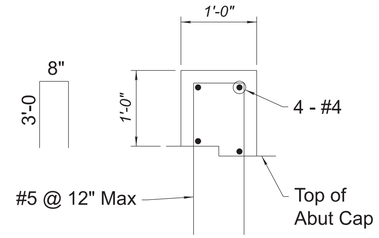
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.05 OF 26
____ OF ____



ABUTMENT 1 PLAN

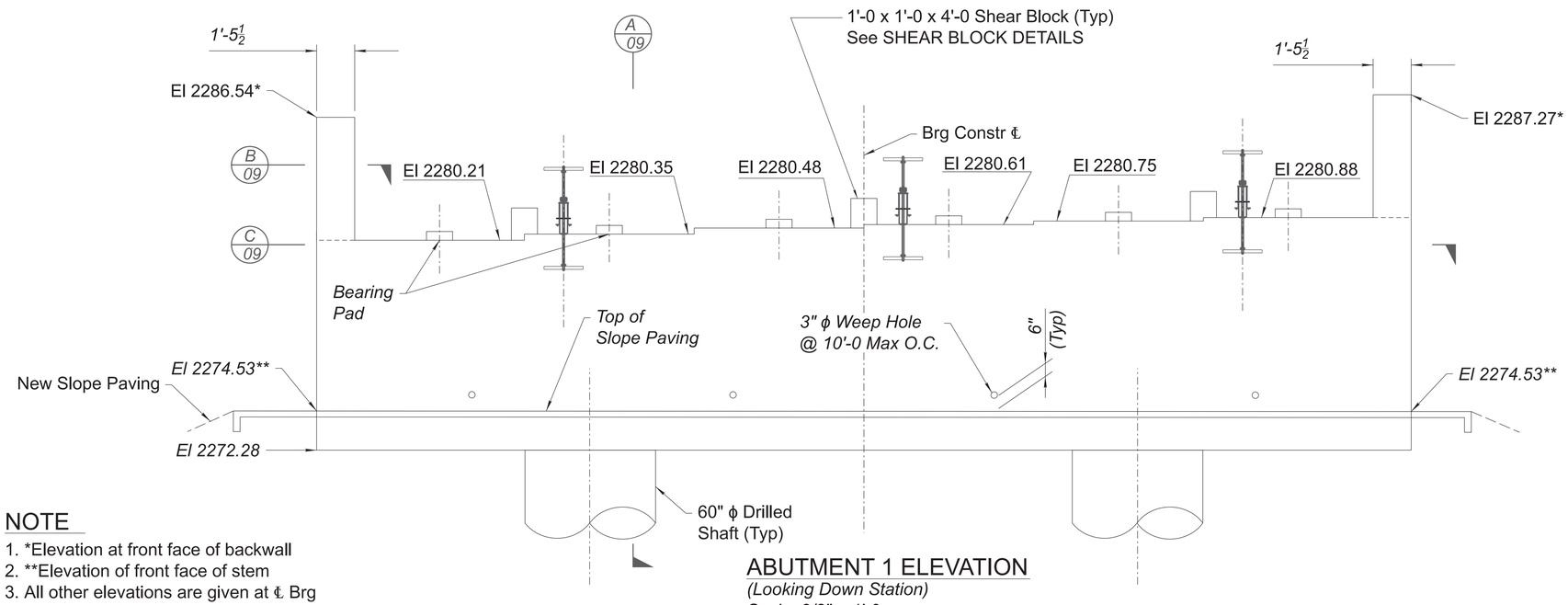
Scale: 3/8" = 1'-0





SHEAR BLOCK DETAIL

Scale: 1" = 1'-0



ABUTMENT 1 ELEVATION

(Looking Down Station)

Scale: 3/8" = 1'-0

NOTE

1. *Elevation at front face of backwall
2. **Elevation of front face of stem
3. All other elevations are given at ℄ Brg unless noted otherwise.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
ABUTMENT PLAN AND ELEVATION (1 OF 2)

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division

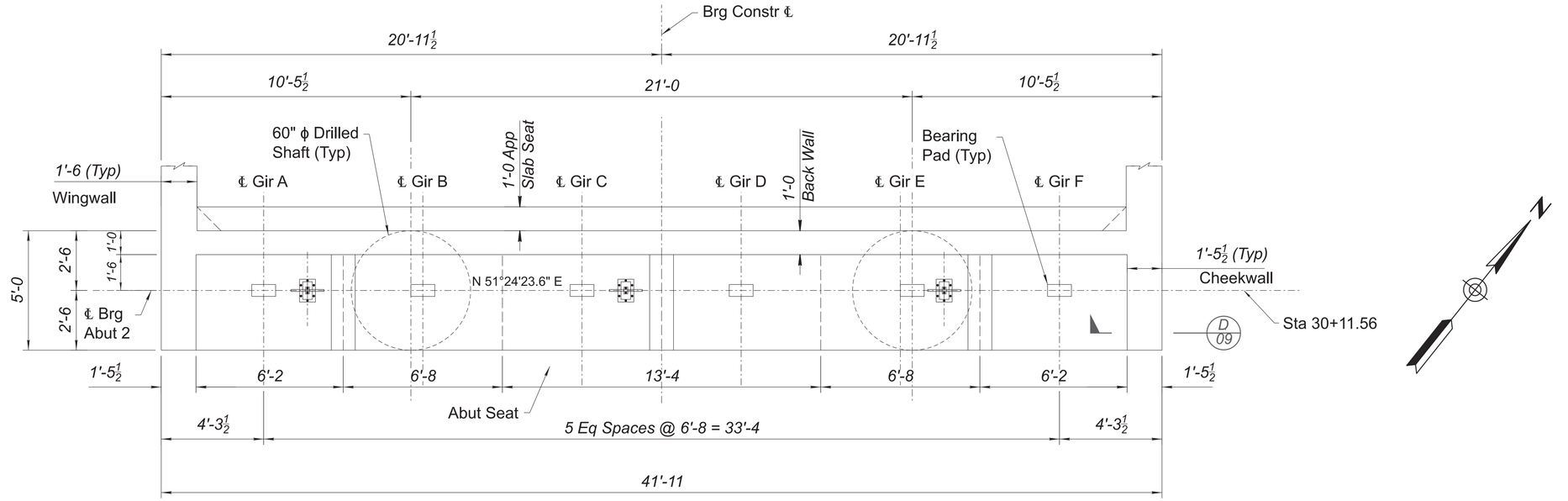
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LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

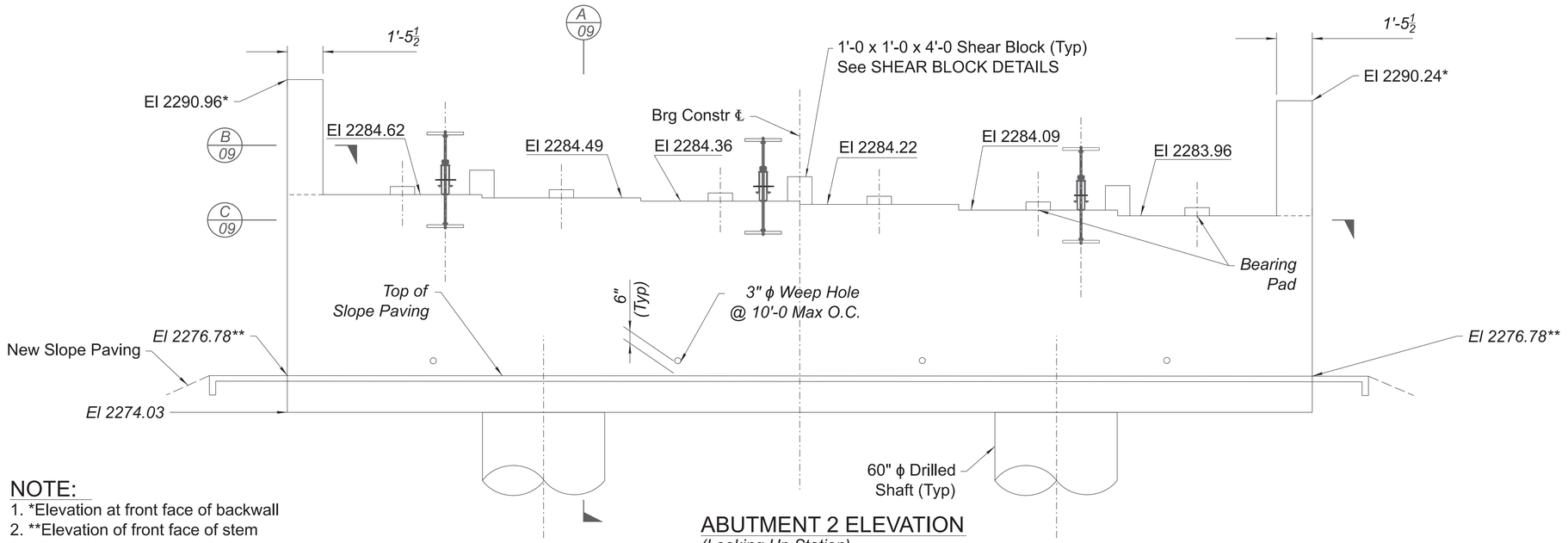
SHEET S-1.06 OF 26

____ OF ____



ABUTMENT 2 PLAN

Scale: 3/8" = 1'-0



ABUTMENT 2 ELEVATION

(Looking Up Station)
Scale: 3/8" = 1'-0

NOTE:
1. *Elevation at front face of backwall
2. **Elevation of front face of stem
3. All other elevations are given at ℄ Brg unless noted otherwise.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

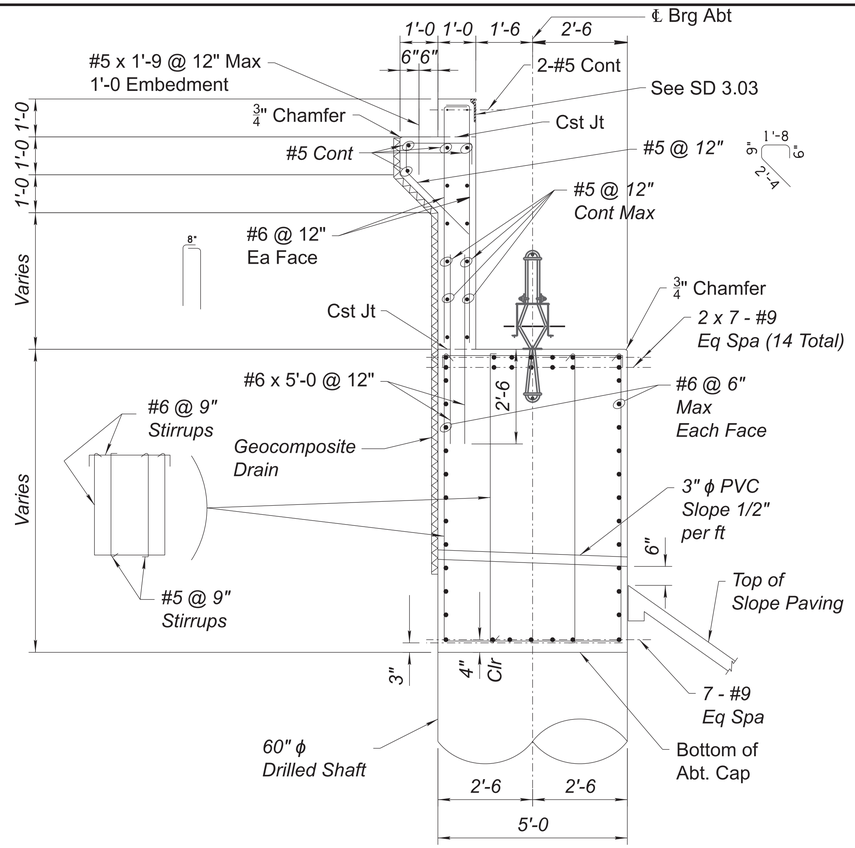
	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
ABUTMENT PLAN AND ELEVATION (2 OF 2)

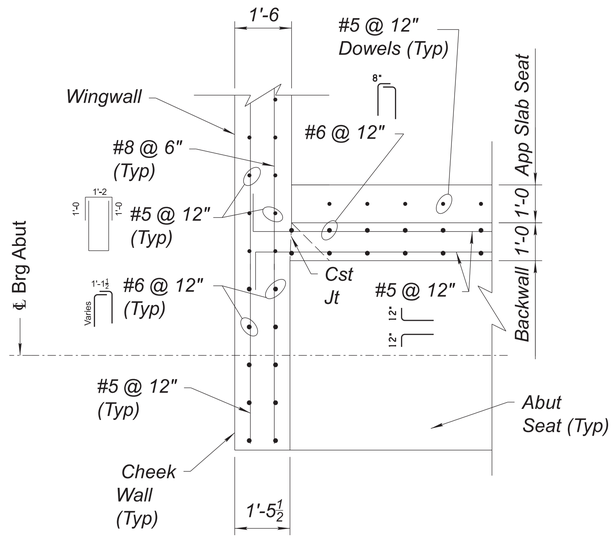
ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	58	100	

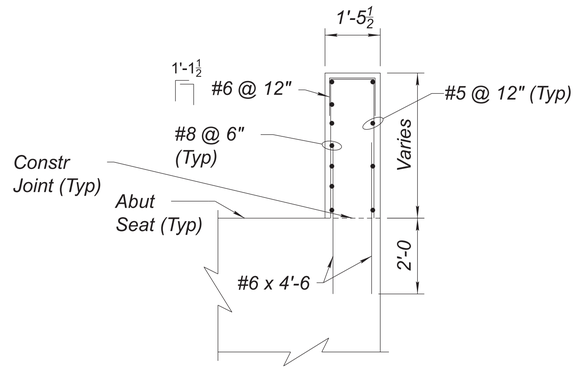
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.07 OF 26
___ OF ___



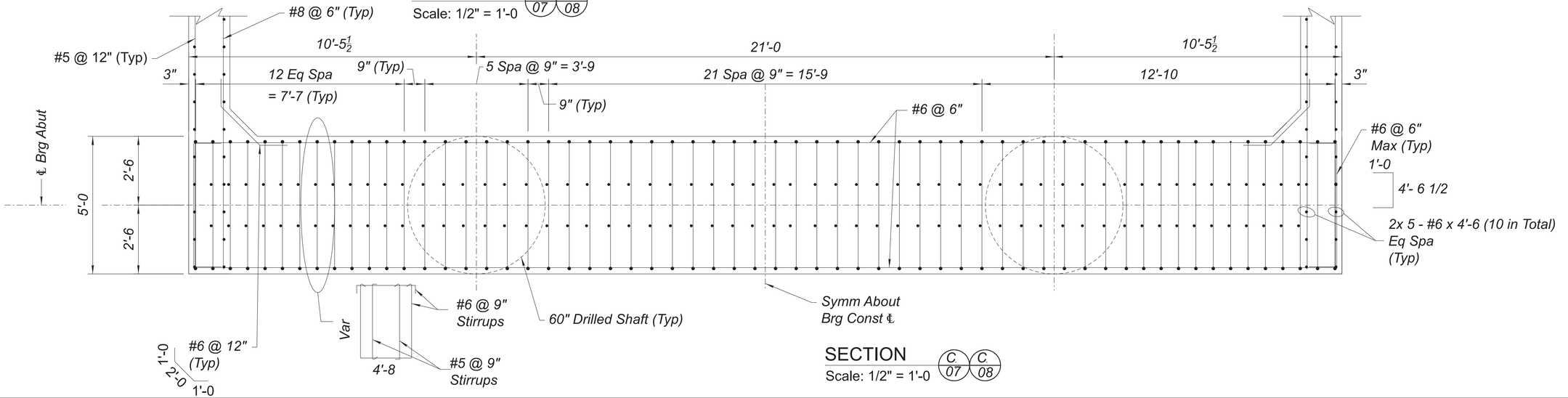
SECTION (A 07 / A 08)
Scale: 1/2" = 1'-0



SECTION (B 07 / B 08)
Scale: 1/2" = 1'-0



SECTION (D 07 / D 08)
Scale: 1/2" = 1'-0



SECTION (C 07 / C 08)
Scale: 1/2" = 1'-0

	NAME	DATE
DESIGN	L. Liao	3/26
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Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
ABUTMENT DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division

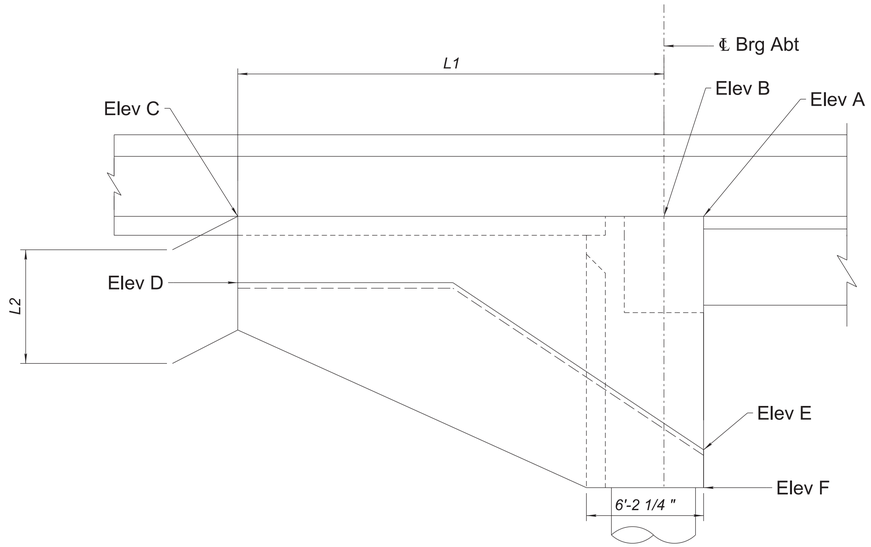
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	59	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.08 OF 26

____ OF ____

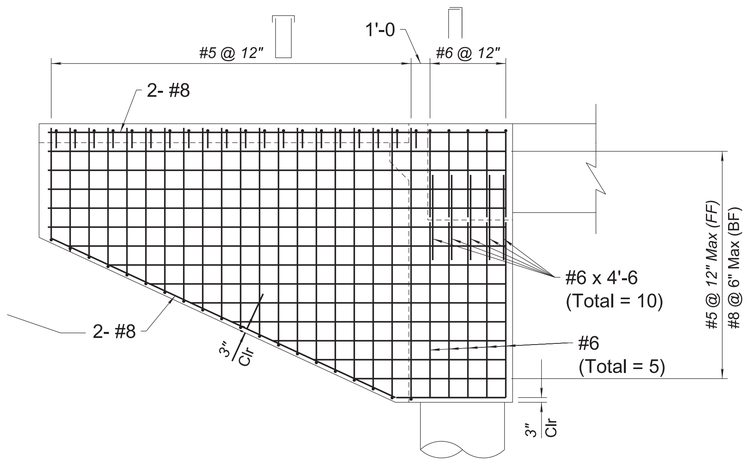


WINGWALL ELEVATION

(NB Abt 1 Wingwall shown, Other Walls Similar)

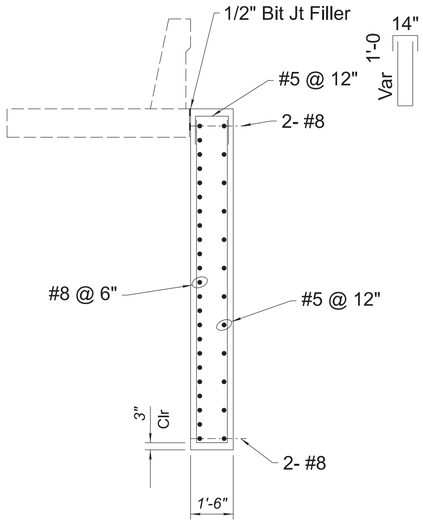
Scale: 1/4" = 1'-0

ELEVATIONS AND DIMENSIONS									
Location	Wingwall	L1	L2	Elev A	Elev B	Elev C	Elev D	Elev E	Elev F
Abutment 1 (NB)	1	22'-6	6'-0	2286.90	2286.88	2286.65	2283.15	2274.53	2272.53
Abutment 1 (SB)	2	22'-6	6'-0	2286.90	2286.88	2286.65	2283.15	2274.53	2272.53
Abutment 2 (NB)	3	22'-6	6'-0	2290.60	2290.62	2290.87	2287.37	2276.78	2274.28
Abutment 2 (SB)	4	22'-6	6'-0	2290.60	2290.62	2290.87	2287.37	2276.78	2274.28



TYPICAL ELEVATION WITH REBAR

Scale: 1/4" = 1'-0



SECTION

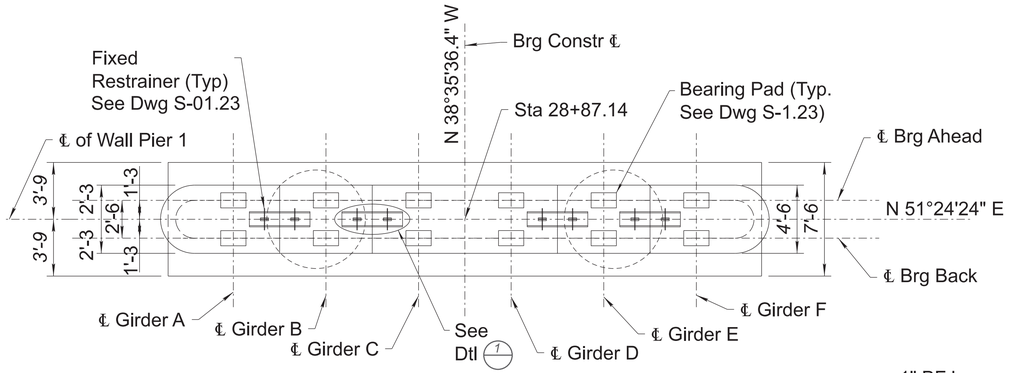
Scale: 3/8" = 1'-0

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

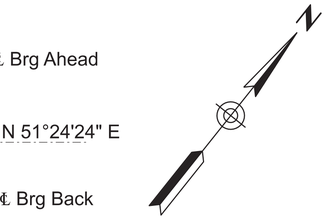
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
WINGWALL DETAILS

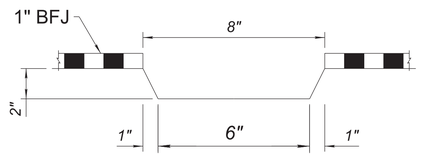
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	60	100	
MILEPOST 10.80	LOCATION SANTA MARIA RIVER BRIDGE						SHEET S-1.09 OF 26
STRUCTURE NO. 20306	TRACS NO. F0584 01C						___ OF___



Wall Pier 1 Plan

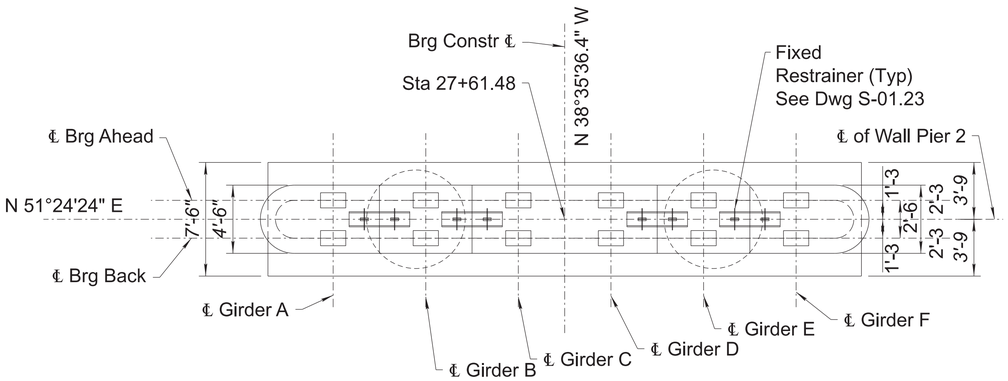
Scale: 1" = 5'





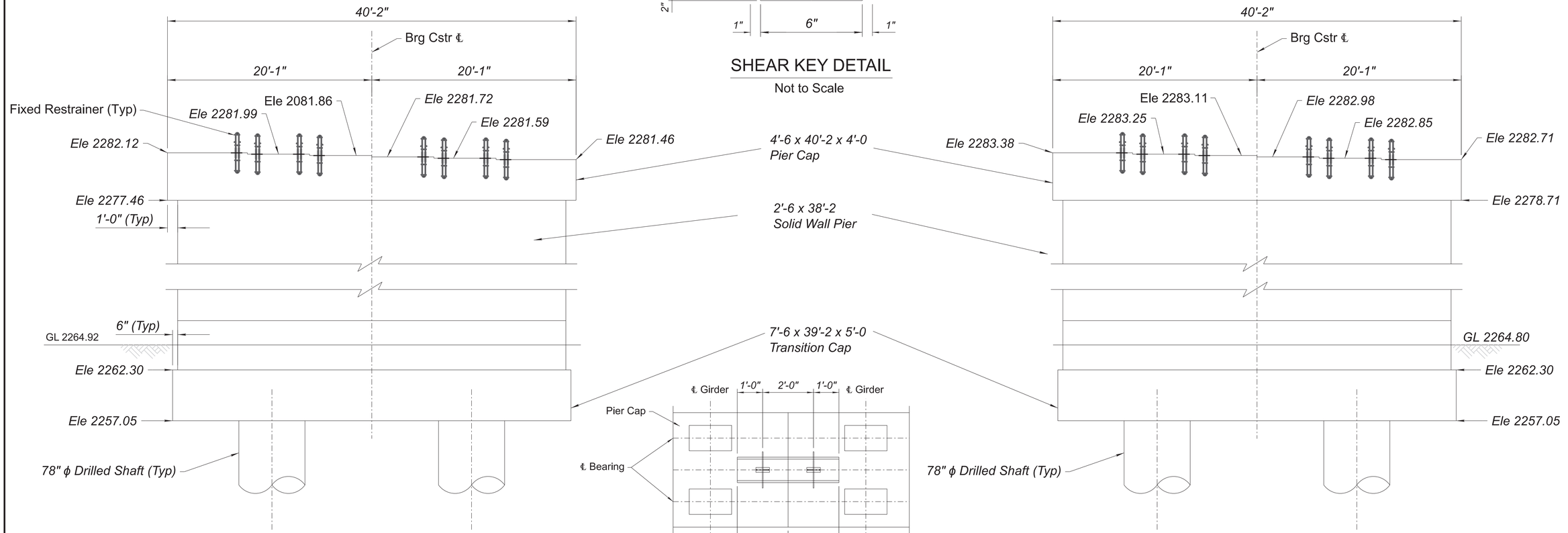
SHEAR KEY DETAIL

Not to Scale



Wall Pier 2 Plan

Scale: 1" = 5'



Wall Pier 1 Elevation

Looking Up Station
Scale: 1" = 5'

DETAIL 1

Scale: 1/2" = 1'-0

Wall Pier 2 Elevation

Looking Up Station
Scale: 1" = 5'

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

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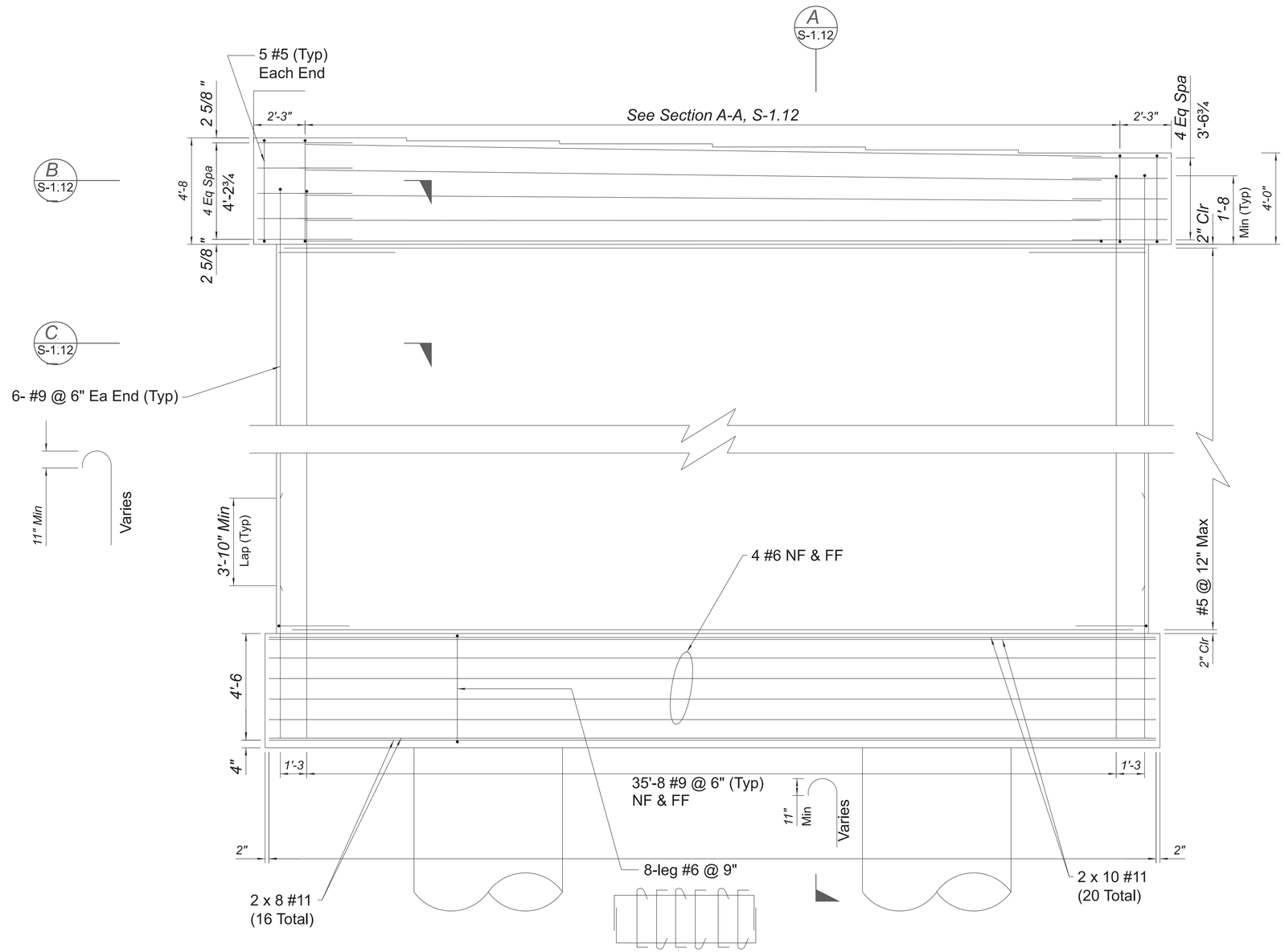
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
PIER PLAN & ELEVATION

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	61	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.10 OF 26
____ OF ____



ELEVATION

Looking Upstation
Scale: 3/8" = 1'-0

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
PIER DETAILS 1

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

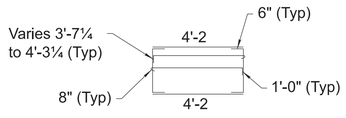
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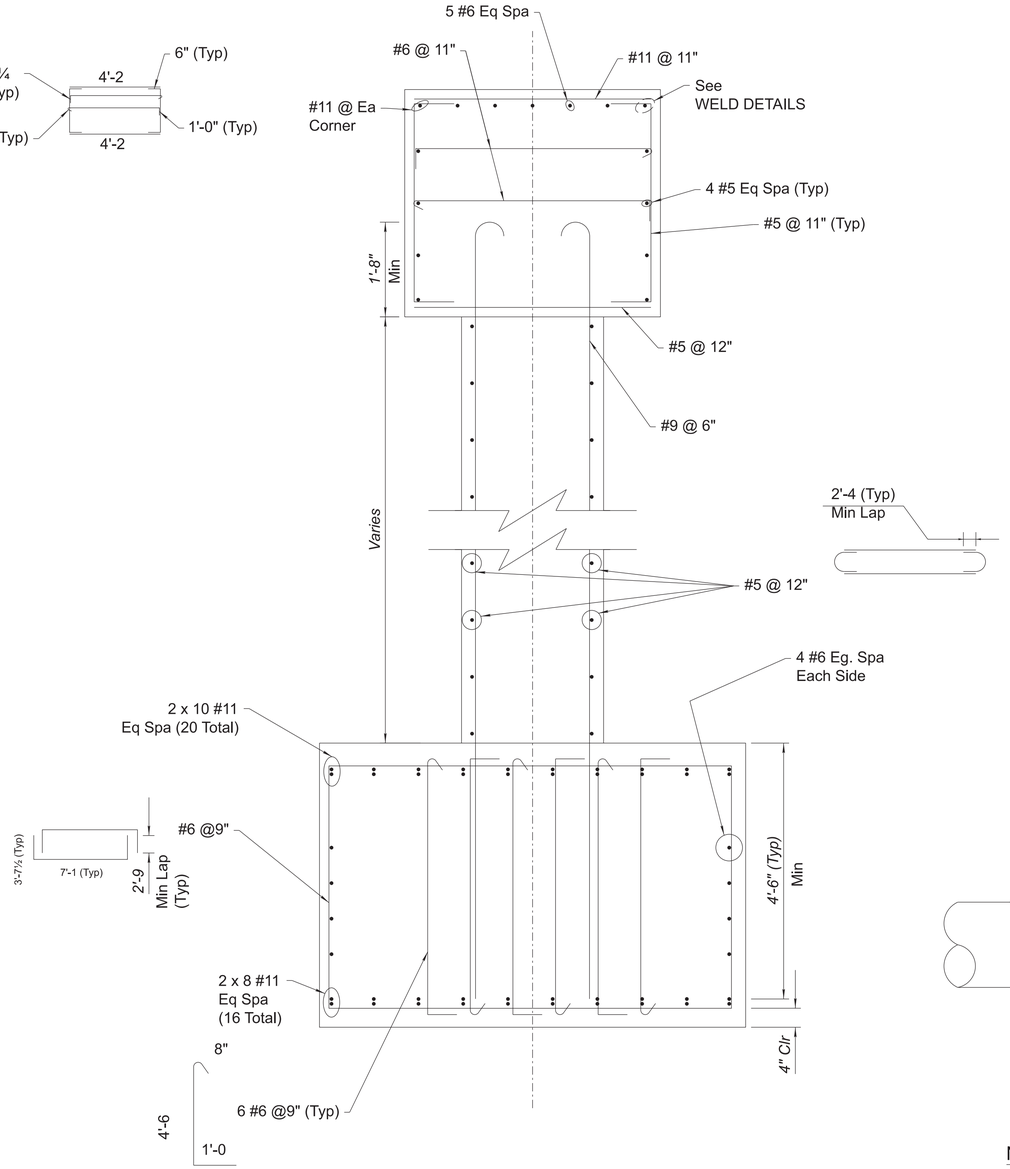
LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.11 OF 26

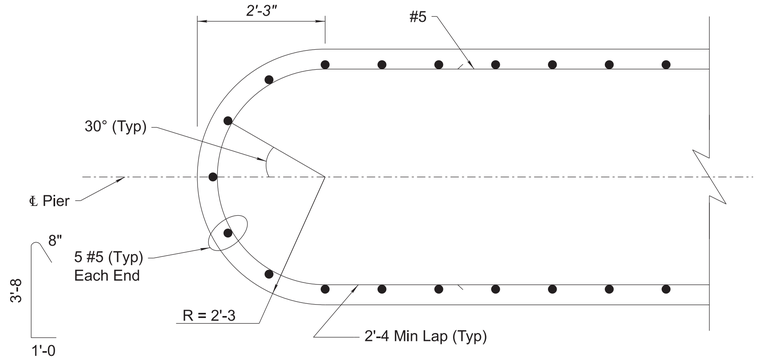
____ OF ____





SECTION A-A

Scale: 3/4" = 1'-0

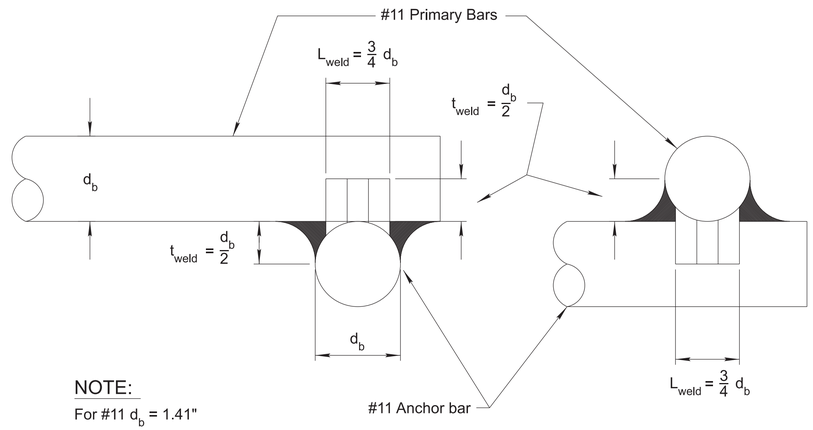


SECTION B-B

Scale: 3/4" = 1'-0

SECTION C-C

Scale: 3/4" = 1'-0



NOTE:

For #11 d_b = 1.41"

WELD DETAILS

Not to Scale

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TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
PIER DETAILS 2

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

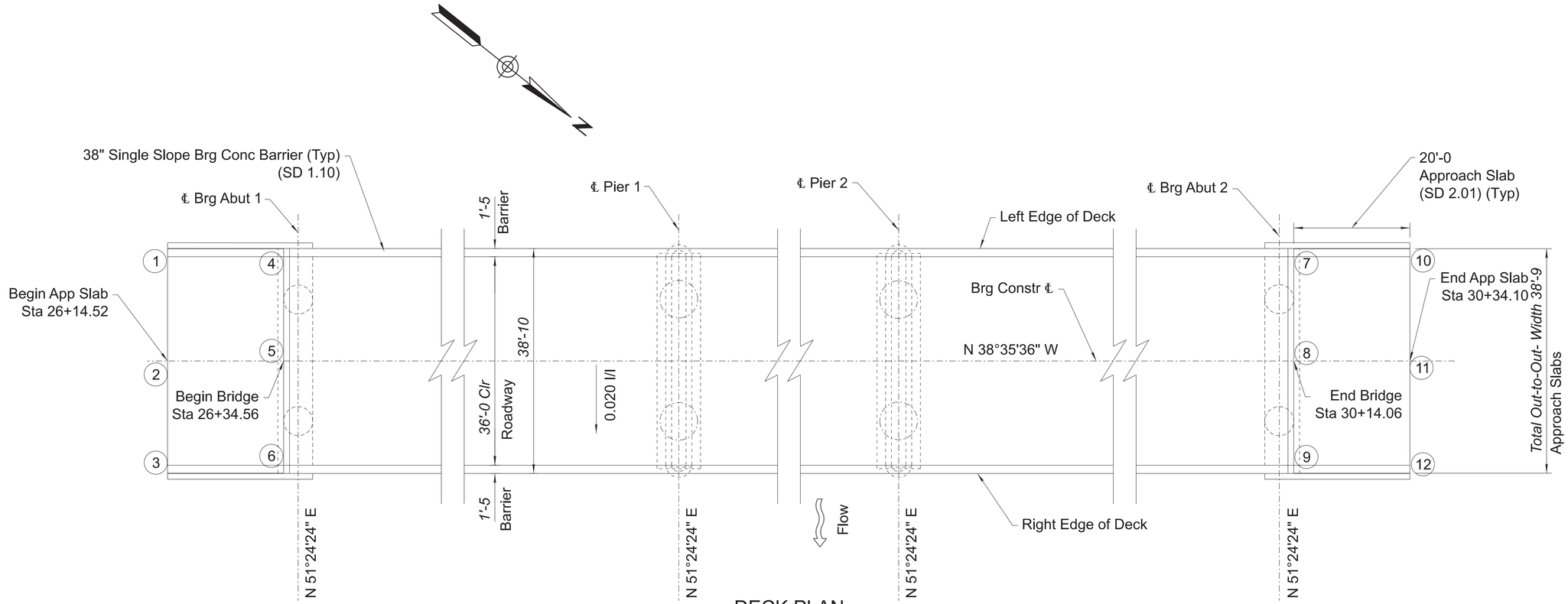
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	63	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.12 OF 26

____ OF ____



DECK PLAN

Scale: 1" = 10'

Location	Elevation	Location	Elevation
1	2287.04	7	2291.04
2	2286.65	8	2290.65
3	2286.27	9	2290.26
4	2287.24	10	2291.26
5	2286.85	11	2290.87
6	2286.47	12	2290.48

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
DECK PLAN

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

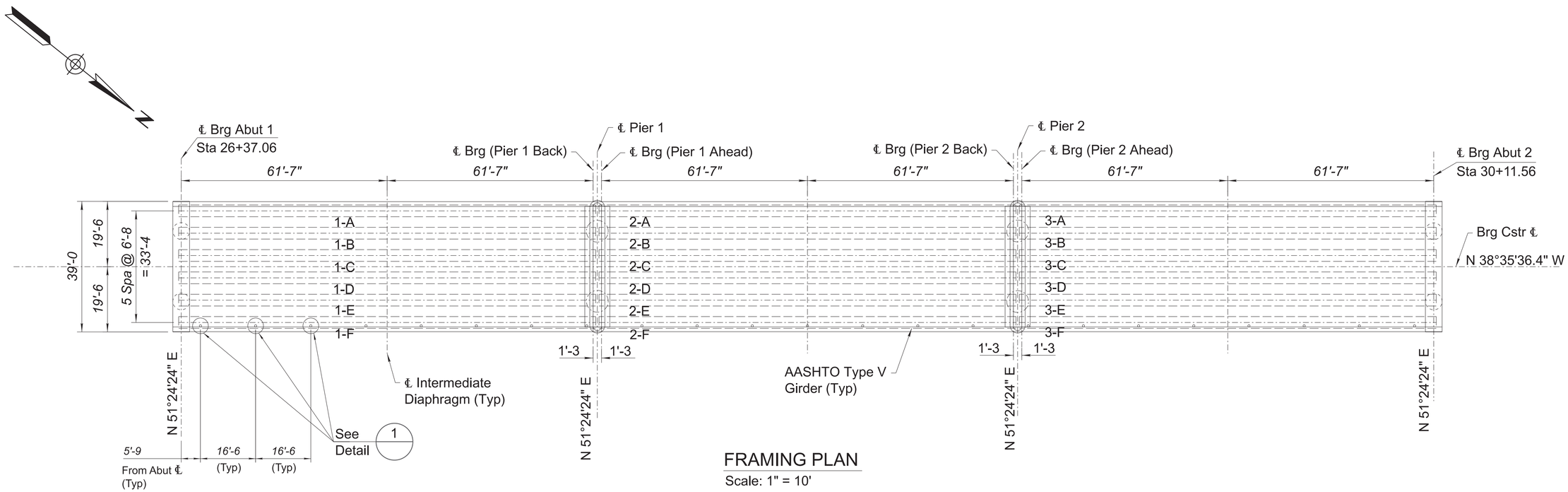
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	64	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.13 OF 26

____ OF____

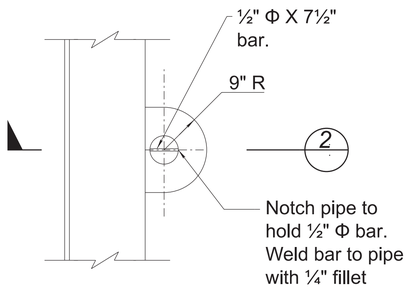


FRAMING PLAN

Scale: 1" = 10'

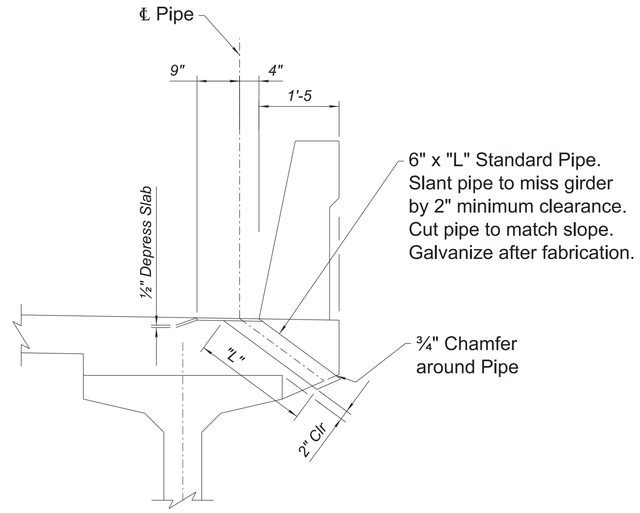
DECK DRAIN NOTE:

Deck drain spacing - 16'-6 ctrs and two 5'-9 from abutment ℄. Cost shall be considered included in the cost of the Deck Concrete.



DECK DRAIN DETAIL 1

Scale: 3/4" = 1'-0



SECTION 2

Scale: 3/4" = 1'-0

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

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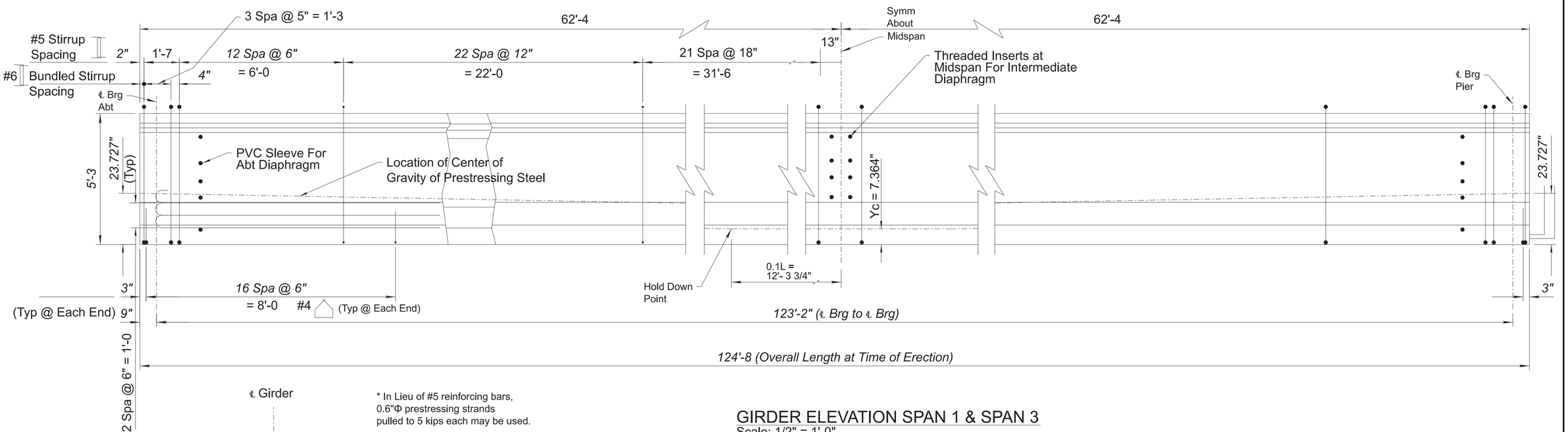
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
FRAMING PLAN

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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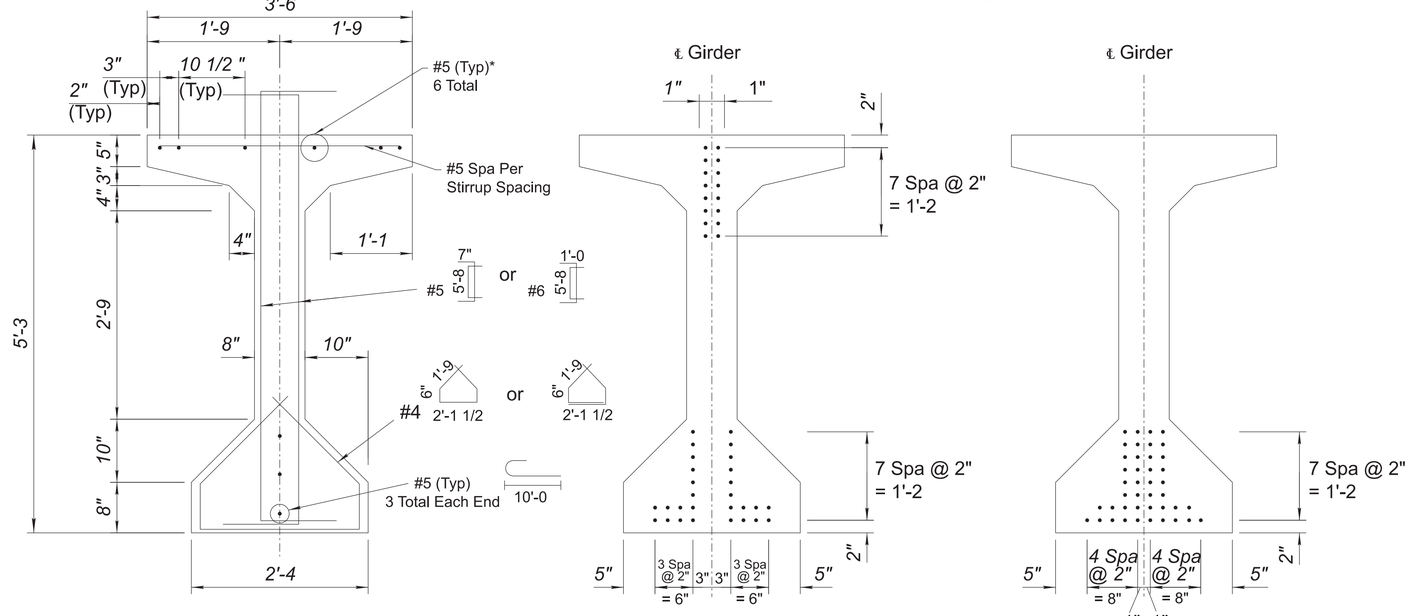
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.14 OF 26
___ OF ___



GIRDER ELEVATION SPAN 1 & SPAN 3

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

* In Lieu of #5 reinforcing bars, 0.6"Φ prestressing strands pulled to 5 kips each may be used.



AASHTO TYPE V GIRDER SPAN 1 & SPAN 3

AT ENDS

AT MID-SPAN

STRAND PATTERN

(44 -0.6" Dia 270 101 Low Relaxation Strands

Scale: 1" = 1'-0

PRESTRESSING GIRDER NOTES

Strands:

0.6' Dia ASTM A416 Grade 270 7-wire low relaxation prestressing strand with initial strand tension equal to 43,942 lbs (0.75 fpu).
fpu = 270 ksi.
Nominal area of strand = 0.217 sq. in.

Prestressing Force:

pi = 1,933 kips initial force per girder at transfer.
pw = 1,502 kips working force - total force remaining per girder after losses.

Prestressing:

All girders shall be prestressed by the pretensioning method only.

Concrete Strength:

f'ci = 7.0 ksi minimum strength at transfer.
f'c = 9.0 ksi minimum strength at 28 days.

Girder Details:

The girder length shown does not include elastic shortening effects. Casting lengths shall be increased as necessary to account for shortening effects. The contact surface of the top flange shall be roughened to a depth approximately 1/4" inch.

Girder end shall be cast vertical.

Welded wire reinforcement conforming to ASTM A1064 may be used where indicated.

Registered Professional Engineer CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
GIRDER DETAILS (1 OF 3)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

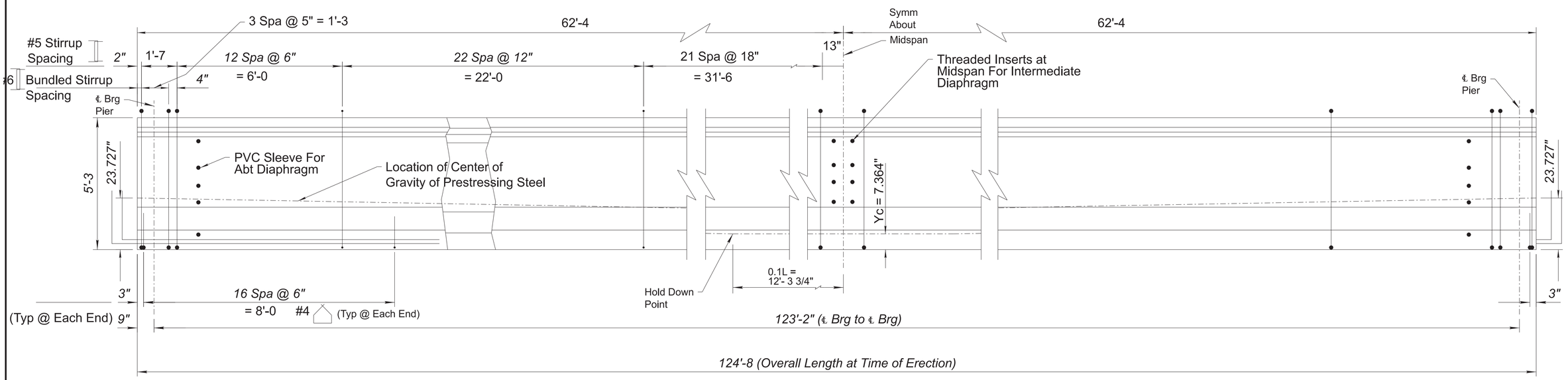
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	66	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

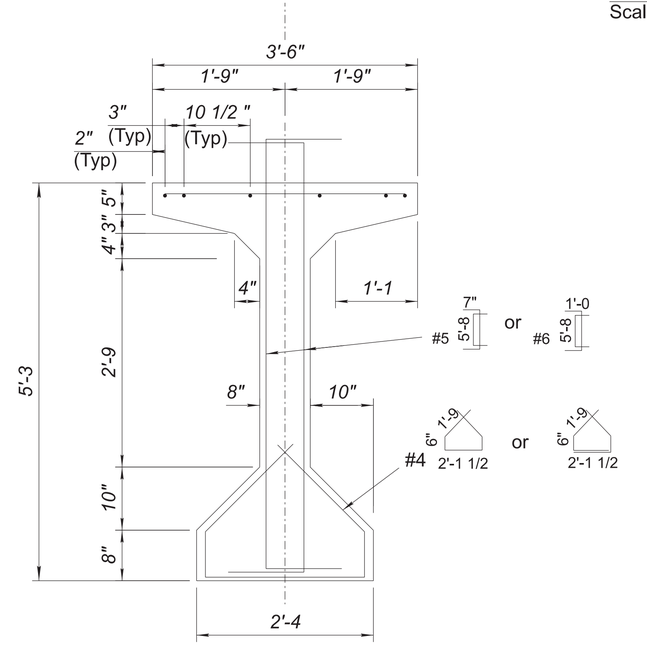
SHEET S-1.15 OF 26

____ OF ____



GIRDER ELEVATION SPAN 2

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



AASHTO TYPE V GIRDER SPAN 2

Scale: 1" = 1'-0

NOTE:

Size of rebar and strand is exaggerated for clarity purposes.

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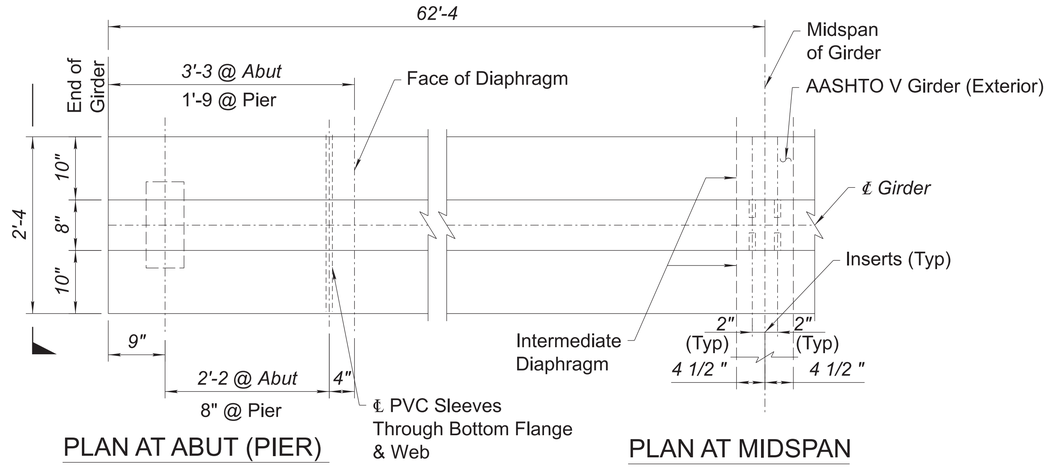
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
GIRDER DETAILS (2 OF 3)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	67	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.16 OF 26
___ OF ___



PLAN AT ABUT (PIER)

PLAN AT MIDSPAN

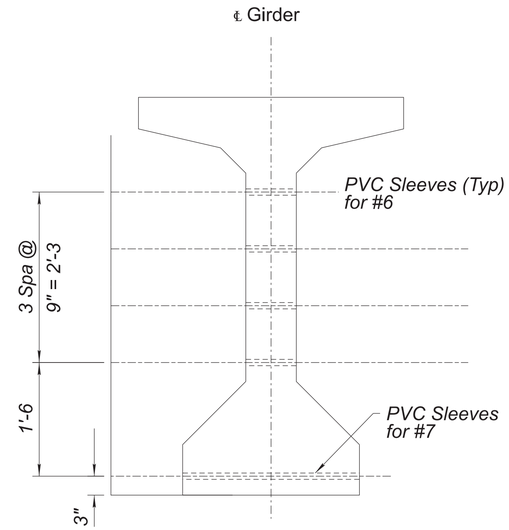
INSERT NOTES

1. Threaded inserts are ferrule loop inserts for #6 reinforcing bars threaded on end. Inserts shall have a 10.56 kips ultimate pullout strength.
2. Threaded inserts shall be placed normal to girder surface. Field bend inserted bars in such a manner as to prevent bending stresses at root of threads. Shop drawing shall indicate method of bending.
3. Cost of threaded inserts & threaded bars shall be included in the bid item for prestressed girders.
4. Omit all inserts at exterior face of exterior girders at intermediate diaphragms.

- Extended Strands
- Extended Strands at opposite Girder

INSERT DETAILS

Scale: 1" = 1'-0"



GIRDER SLEEVES DETAILS

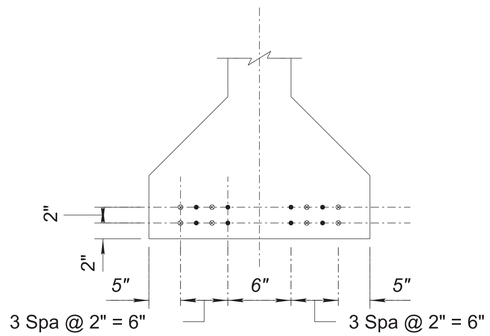
(At Abut & Interior Pier)
Scale: 1" = 1'-0

NOTE

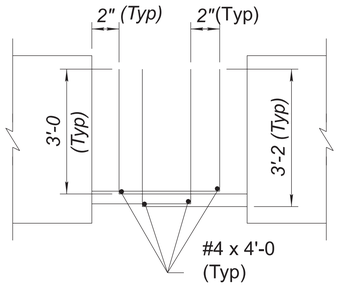
Extend strands at Pier only.
Cut strands flush at Abutments.

GIRDER BRACING NOTE:

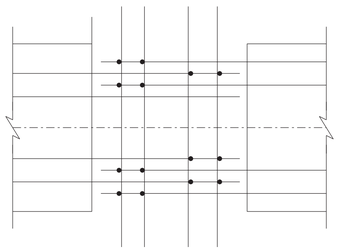
The contractor shall provide temporary bracing for the girders immediately after erection to ensure that they remain stable until the permanent intermediate diaphragms are constructed. The temporary bracing shall remain in place until the intermediate diaphragms are poured and the concrete has reached the required 28-day strength. The cost of the temporary bracing shall be included in the cost of the girders.



TYPICAL SECTION



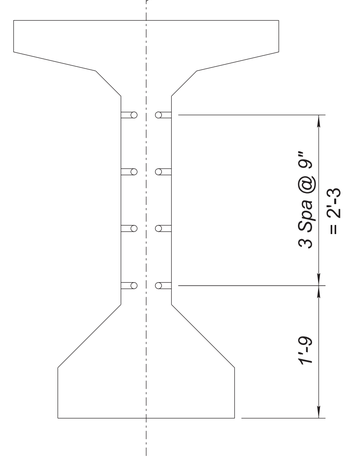
ELEVATION



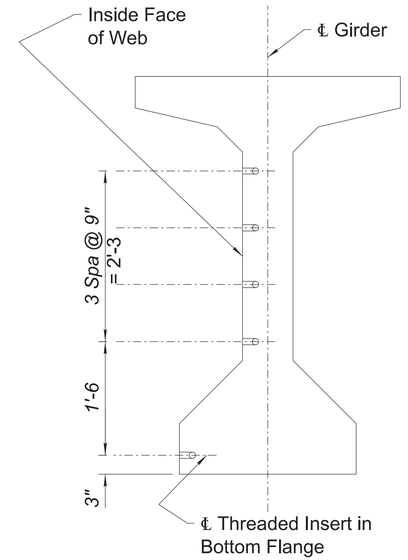
PLAN

STRAND EXTENSION DETAIL

NTS



AT INTERMEDIATE DIAPHRAGM



AT EXTERIOR PIER

GIRDER INSERT DETAILS

(At Intermediate Diaphragm)
Scale: 1" = 1'-0

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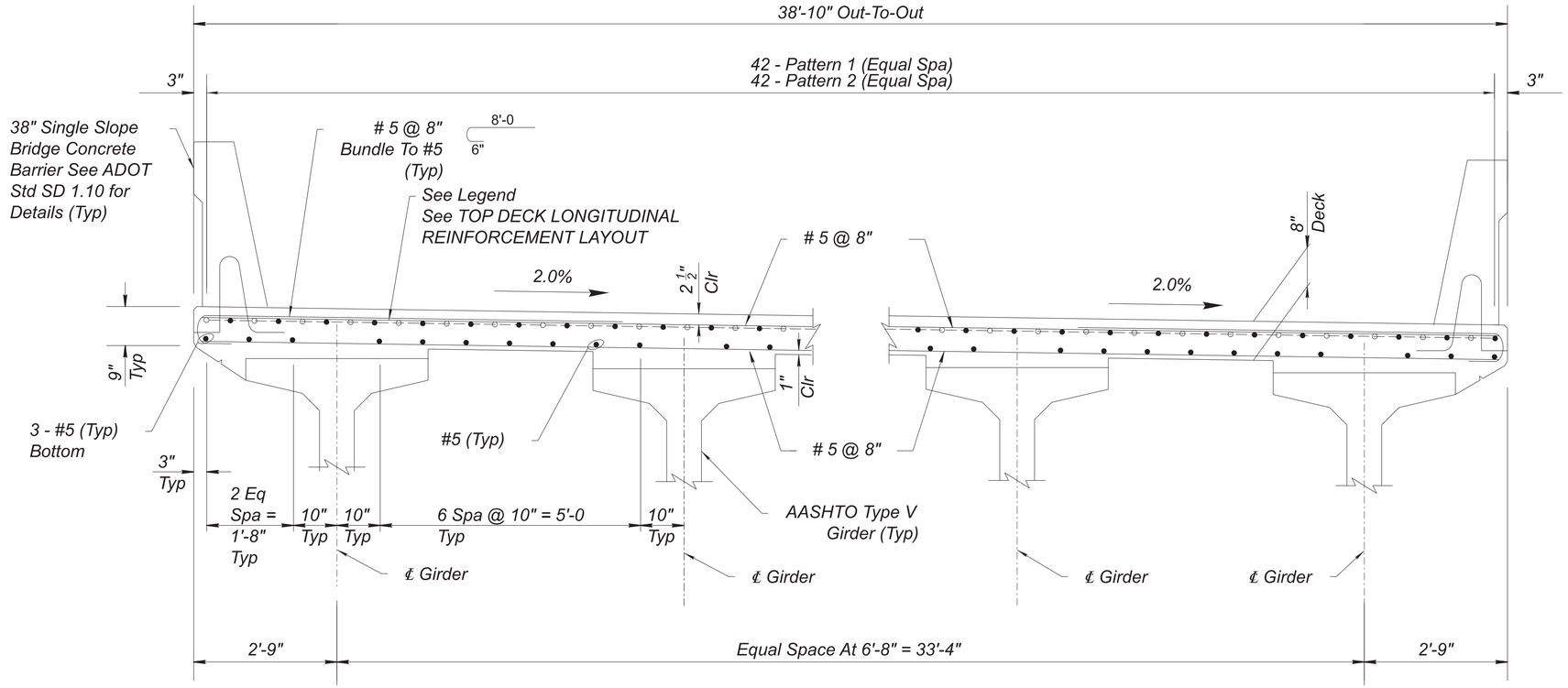
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
GIRDER DETAILS (3 OF 3)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

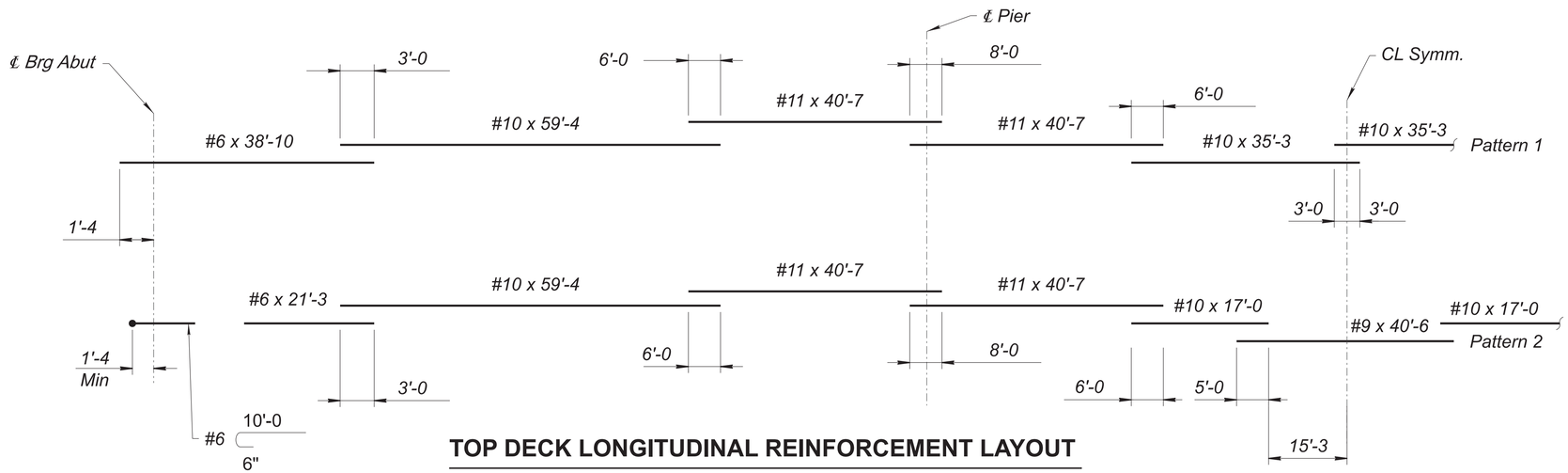
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	68	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.17 OF 26
___ OF ___



TYPICAL DECK REINFORCING

Scale: $\frac{3}{4}$" = 1'-0



TOP DECK LONGITUDINAL REINFORCEMENT LAYOUT

Not To Scale

SUPERSTRUCTURE NOTES:

All continuous horizontal reinforcing steel in the deck slab and barriers may be spliced if approved by the Engineer with the minimum lap lengths specified in Note 1 and subject to the following limitations in Notes 2 thru 5, unless otherwise noted.

1. Minimum lap length of bar splices shall be:

#6 bars...3'-0 #10 bars...6'-0
#9 bars...5'-0 #11 bars...8'-0

2. Bars shall not be spliced within the required lap length of the adjacent bars.

3.Transverse deck bars shall be placed perpendicular to the Girders.

4. Longitudinal deck bars shall be placed parallel to the Girders.

5. Top deck longitudinal reinforcing shall not be spliced within 10'-0 of CL Pier except as shown in TOP DECK LONGITUDINAL REINFORCEMENT LAYOUT.

6. Barrier Reinforcement per SD 1.10, unless otherwise noted. These bars are included in the linear foot cost of the single slope bridge concrete barrier & transition.

LEGEND:

- ○ *Reinforcing Pattern 1*
- • *Reinforcing Pattern 2*

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	J. Crowley	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
TYPICAL DECK SECTION & REINF

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division

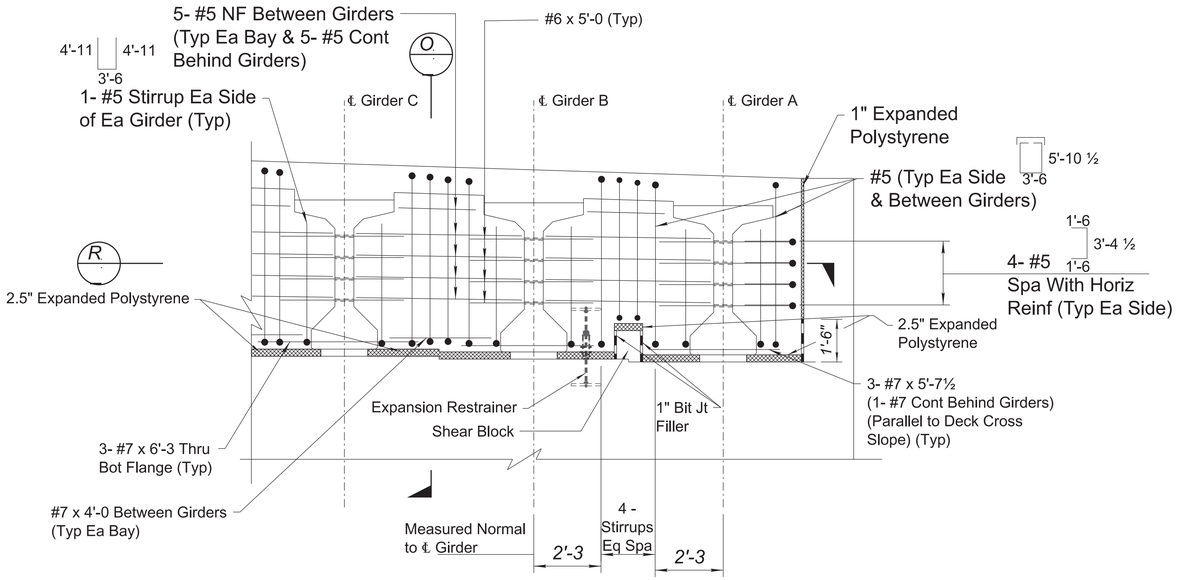
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	69	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.18 OF 26

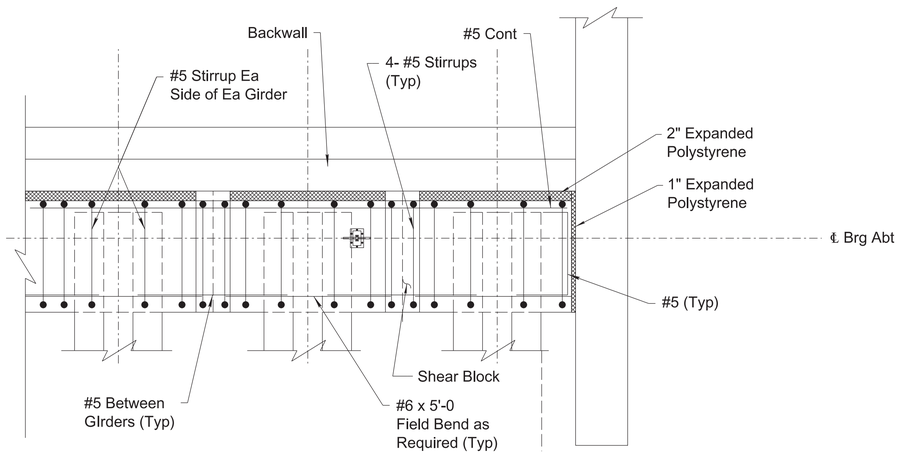
____ OF ____



ABUTMENT DIAPHRAGM ELEVATION

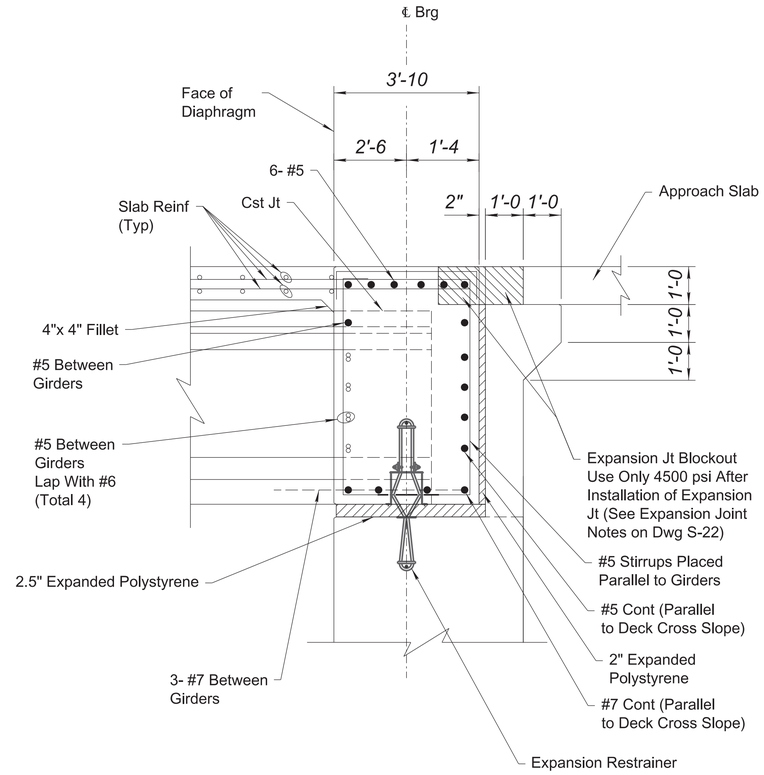
Abutment 2 Shown, Abutment 1 Similar

Scale: ⅜" = 1'-0



SECTION R

Scale: ⅜" = 1'-0



SECTION O

Scale: ½" = 1'-0

NOTES:

1. For Expansion Joint Details at Abutment, see Dwg No. S-22
2. For Joint Note at Abutment, see Dwg No. S-22
3. Expansion restrainers are not shown for clarity. See Abutment Plan and Elevation for locations.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 02/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
DIAPHRAGM DETAILS 1

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

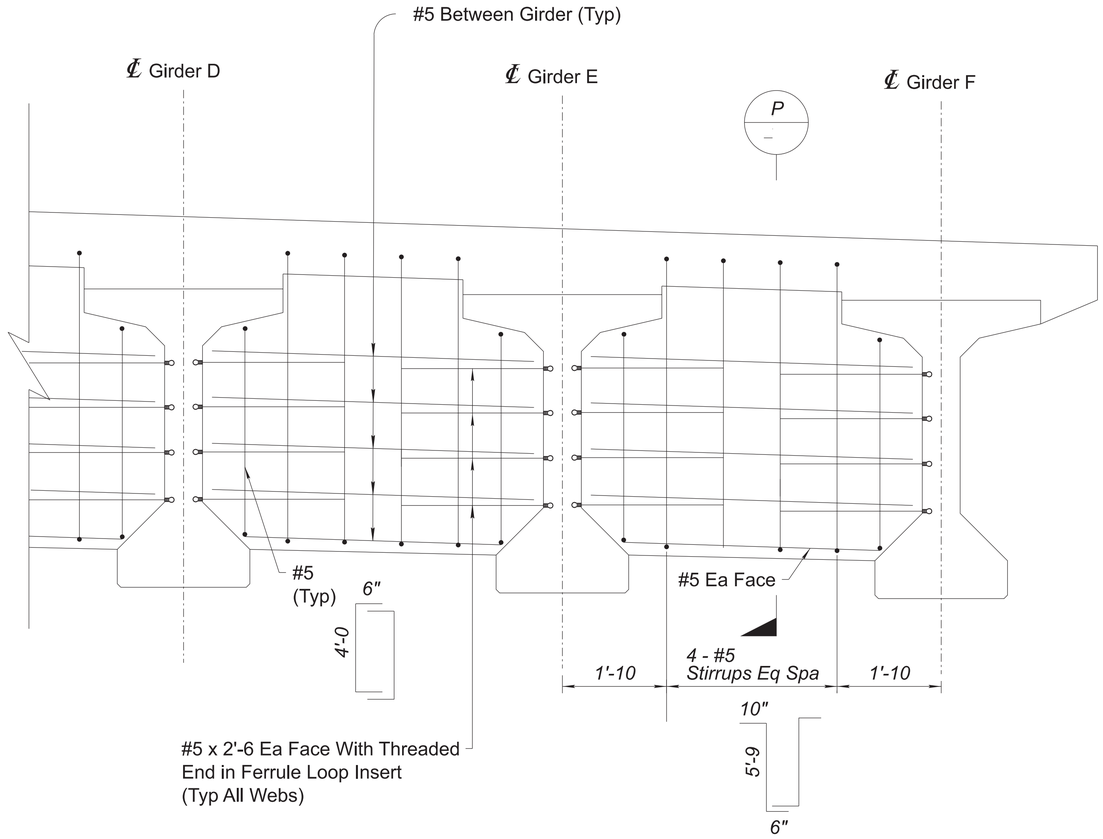
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	70	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

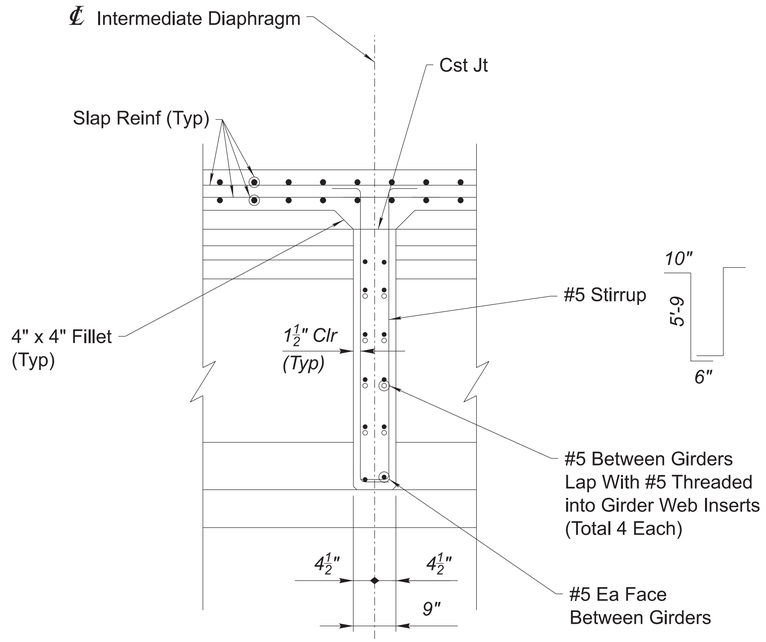
SHEET S-1.19 OF 26

____ OF ____



INTERMEDIATE DIAPHRAGM ELEVATION

(Looking Up Station)
Scale: $\frac{3}{4}$" = 1'-0



TYPICAL SECTION

Scale: $\frac{3}{4}$" = 1'-0

P

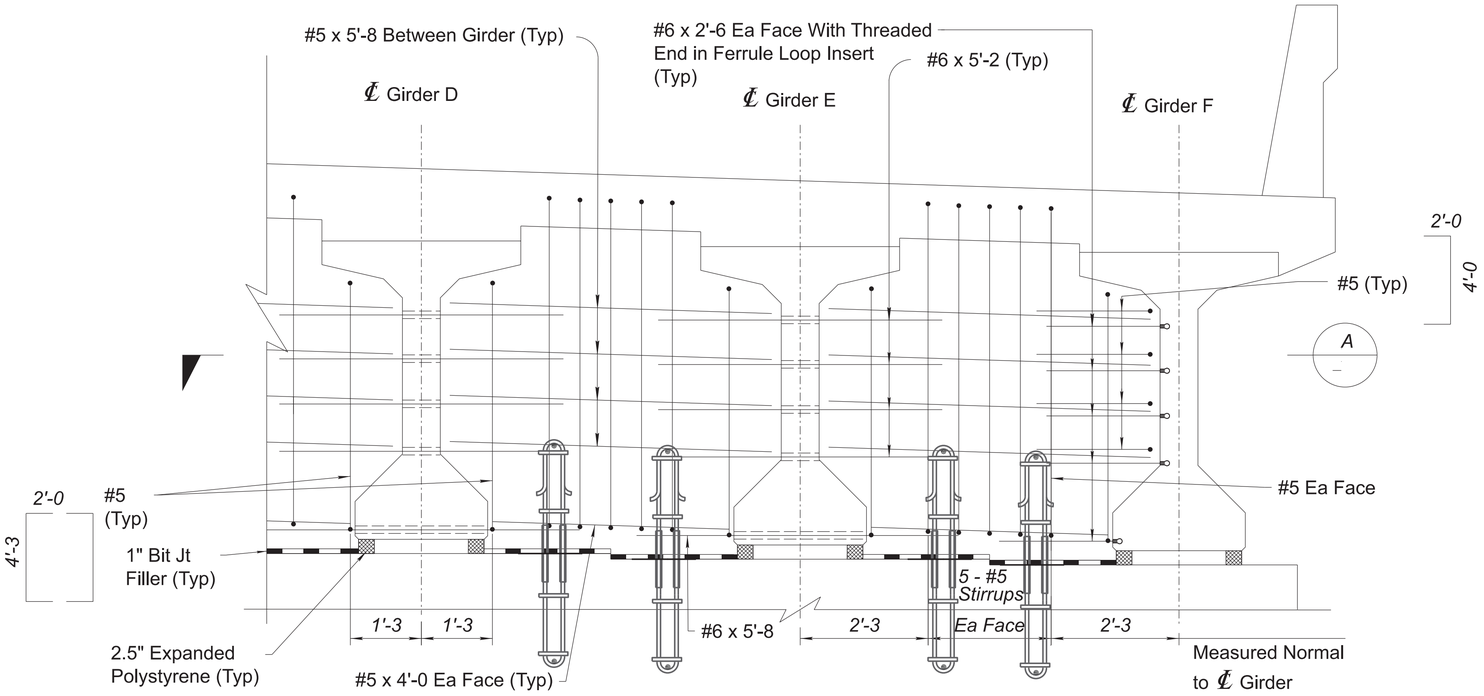
	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	T. Crowley	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
DIAPHRAGM DETAILS 2

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	71	100	
MILEPOST 10.80	LOCATION SANTA MARIA RIVER BRIDGE					SHEET S-1.20 OF 26
STRUCTURE NO. 20306	TRACS NO. F0584 01C					___ OF ___

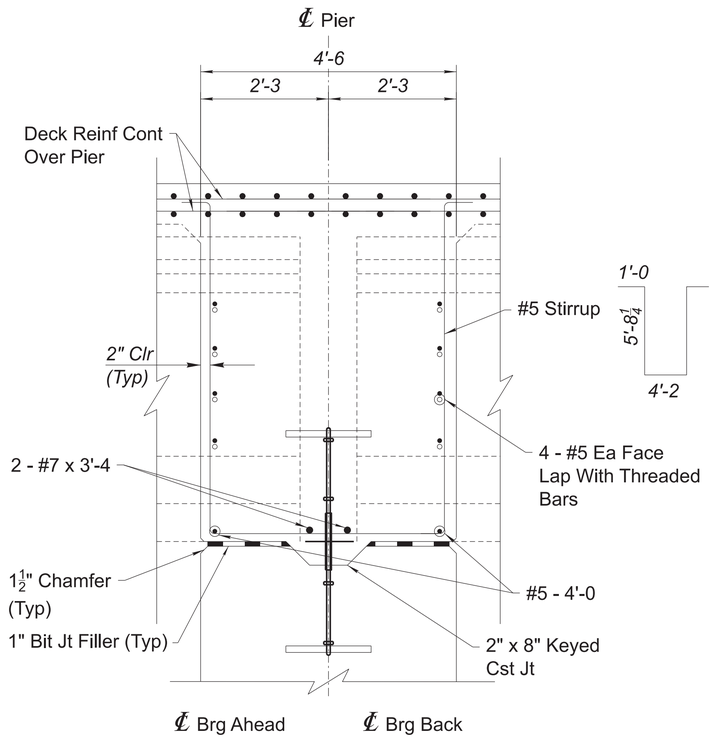
F.H.W.A. Arizona Division



ELEVATION AT PIER DIAPHRAGM

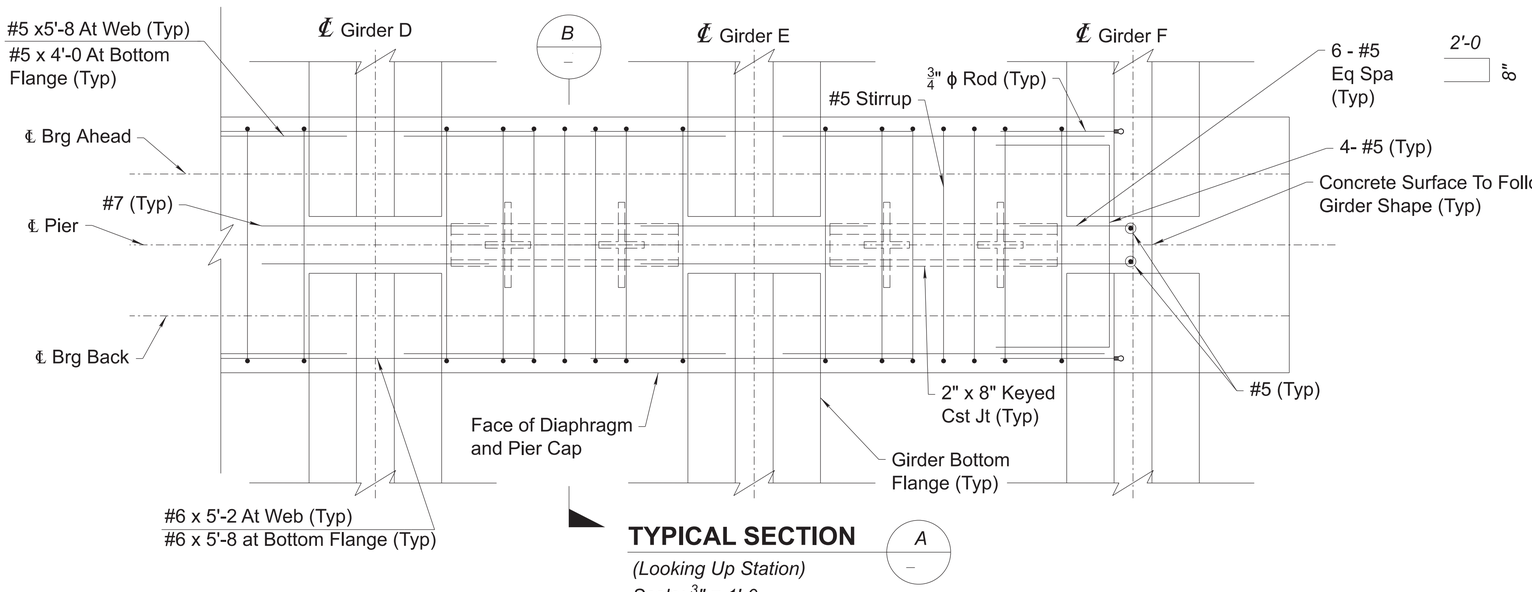
(Looking Up Station)

Scale: $\frac{3}{4}$" = 1'-0



TYPICAL SECTION B

Scale: $\frac{3}{4}$" = 1'-0



TYPICAL SECTION A

(Looking Up Station)

Scale: $\frac{3}{4}$" = 1'-0

NOTES:

1. Fixed restrainers are not shown for clarity. See Pier Plan and Elevation for the locations.

Registered Professional Engineer (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

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DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

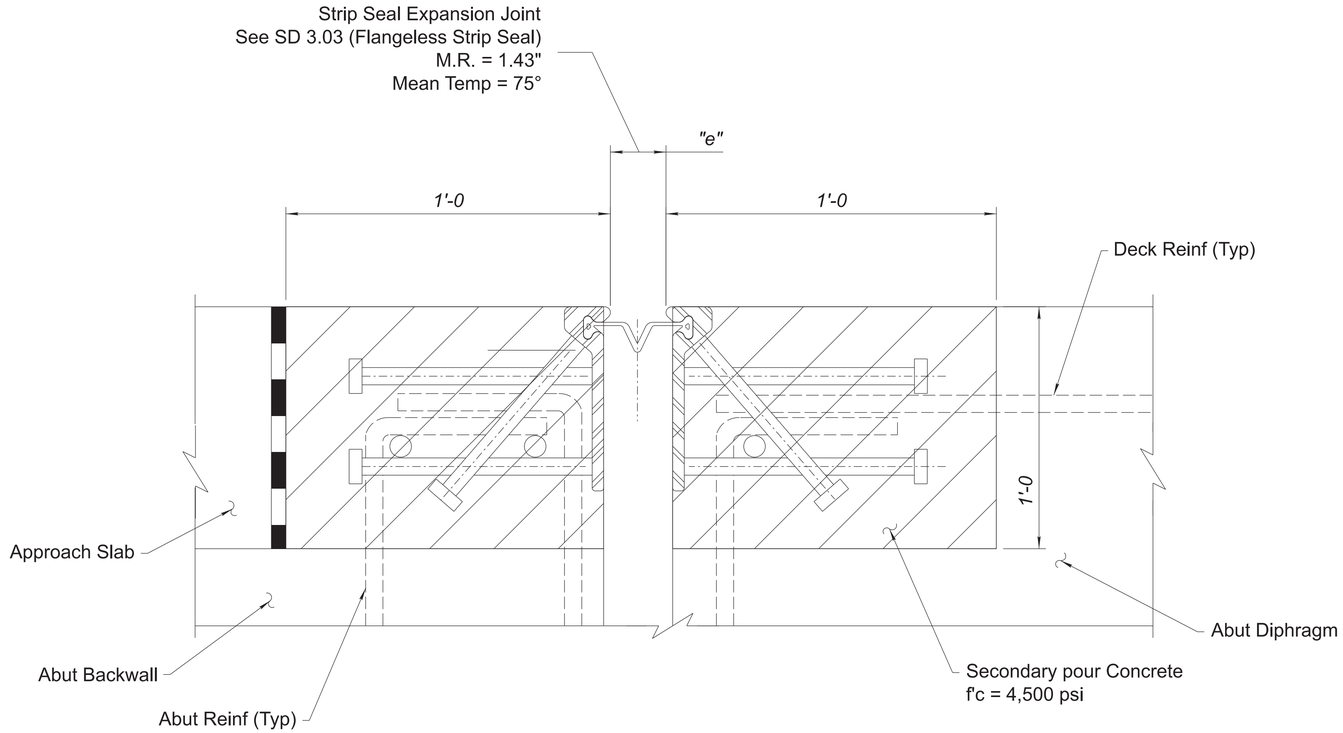
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
DIAPHRAGM DETAILS 3

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	72	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.21 OF 26
___ OF ___



TEMPERATURE CORRECTION TABLE		
Degree F	'e' (Inch)	
	Abut 1	Abut 2
105	1.59	1.59
95	1.73	1.73
85	1.86	1.86
75	2.00	2.00
65	2.14	2.14
55	2.27	2.27
45	2.41	2.41
35	2.55	2.55

EXPANSION JOINT DETAIL

Not To Scale

JOINT INSTALLATION NOTE:

The contractor shall take due care in the placement of the concrete under the joint angles to ensure that proper consolidation is achieved. After placement, the Engineer will inspect the joint for voids by sounding the angle with a hammer. All voids shall be repaired by the contractor by epoxy injection at no additional cost to the Department.

Registered Professional Engineers (Civil) CERTIFICATE NO. 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
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CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
EXPANSION JT DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

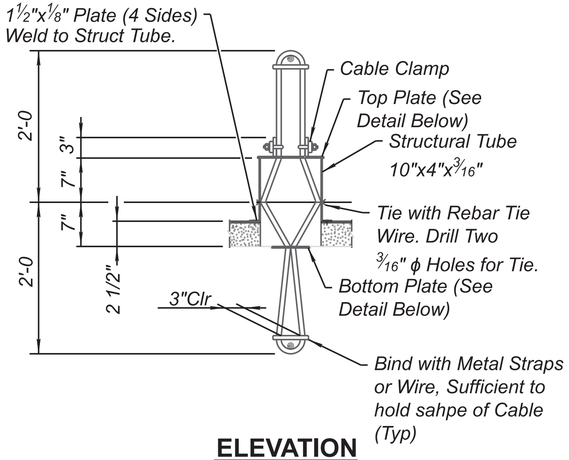
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	73	100	

LOCATION SANTA MARIA RIVER BRIDGE

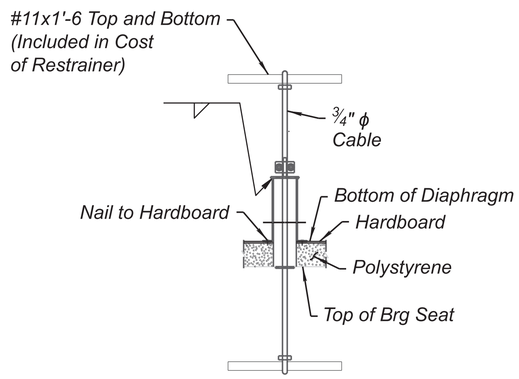
TRACS NO. F0584 01C

SHEET S-1.22 OF 26

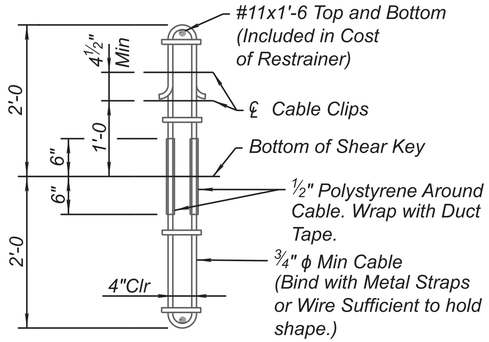
____ OF____



ELEVATION

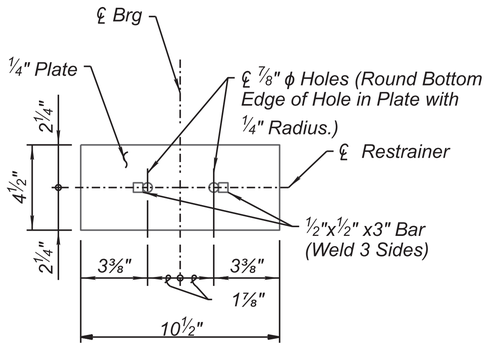


SECTION

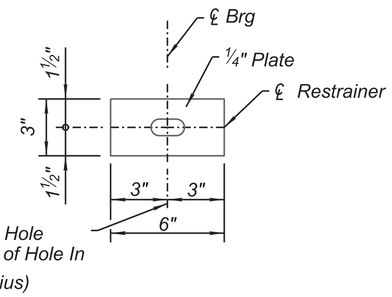


FIXED RESTRAINER DETAIL

Restrainer Cables shall be ¾" ϕ preformed 6x19 galvanized with the minimun breaking strength of 42 Kips. One sample of cable 3 feet in length shall be furnished to the Engineer for testing.

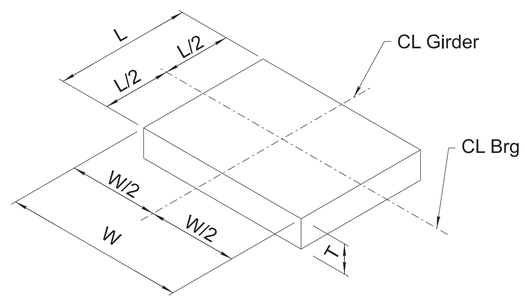


TOP PLATE



BOTTOM PLATE

EXPANSION RESTRAINER DETAIL



STEEL REINFORCED ELASTOMERIC
BEARING PAD DETAIL

NTS

Bearing Pad Design Criteria

Design Method A
Low Temperature Zone A
Elastomer Grade 0
130 psi Shear Modulus (Hardness 55)
Elastomeric Bearing Pads Shall be
Steel Laminated Neoprene Pads

BEARING PAD SCHEDULE						
Location	T	W	L	Type	Service [DL + LL] (Kips)	Number
Abt 1	2 ½"	20"	12"	Exp	238	6
Pier 1	2 ½"	20"	12"	Fixed	234	12
Pier 2	2 ½"	20"	12"	Fixed	234	12
Abt 2	2 ½"	20"	12"	Exp	238	6

NOTES:

Seal all openings in structural tube to prohibit concrete intrusion.

Restrainer Cables shall be ¾" ϕ preformed 6x19 galvanized with minimum breaking strength of 42 kips. One sample of cable 3 feet in length shall be furnished to the Engineer for testing.

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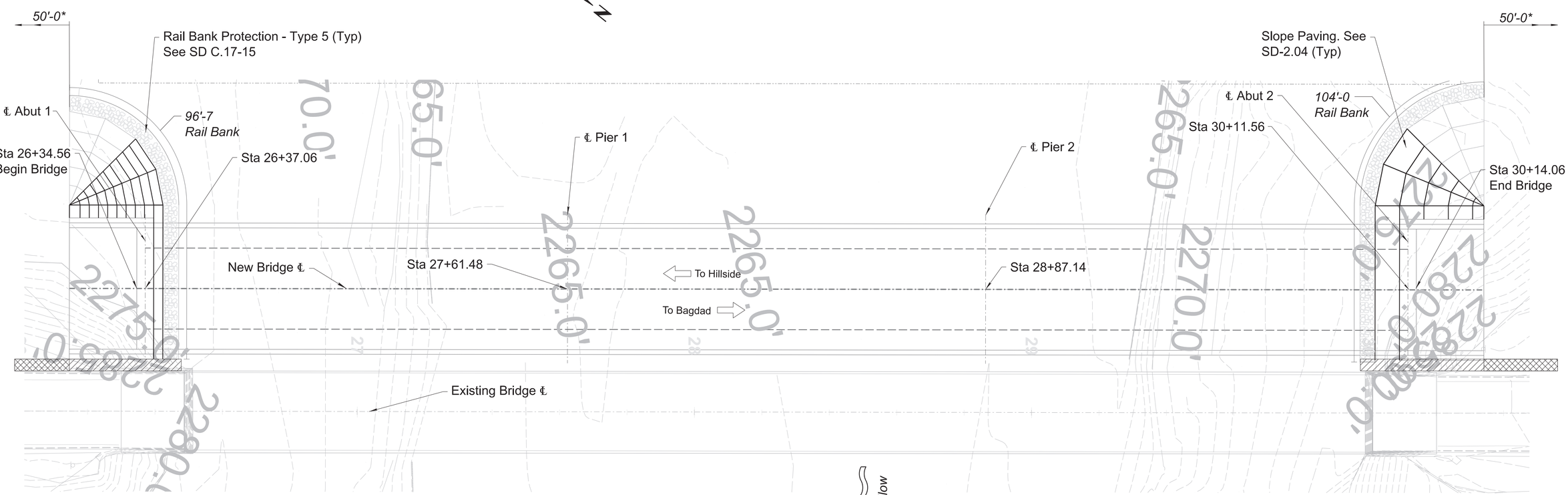
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
RESTRAINER & BEARING PAD DETAILS

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	74	100	

LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET S-1.23 OF 26
___ OF___

BAGDAD - HILLSIDE HWY (SR 96)
SANTA MARIA RIVER BRIDGE #20306
YAVAPAI COUNTY



SHORING NOTES:

1. *The contractor shall install shoring for all excavation near existing bridge to protect and maintain traffic.*
2. *The contractor shall determine the limit and types of necessary shoring systems required.*
3. *Shoring shall be designed, sealed, and signed by a Professional Engineer registered in the State of Arizona at no additional cost to the Department.*
4. *The shoring system shall be approved by the Engineer prior to installation.*
5. *Shoring shall be removed when it is no longer needed.*
6. *No measurement or direct payment will be made for shoring. Cost being considered included in the price of the contract item.*

**- Refer to the Roadway drawings.*

SLOPE PAVING PLAN

5'-0 Contour Interval
Scale: 1" = 20'

LEGEND:

- *Areas with required Structural Shoring*
- *Areas with required Roadway Shoring*

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	T. Crowley	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
SLOPE PAVING DETAILS

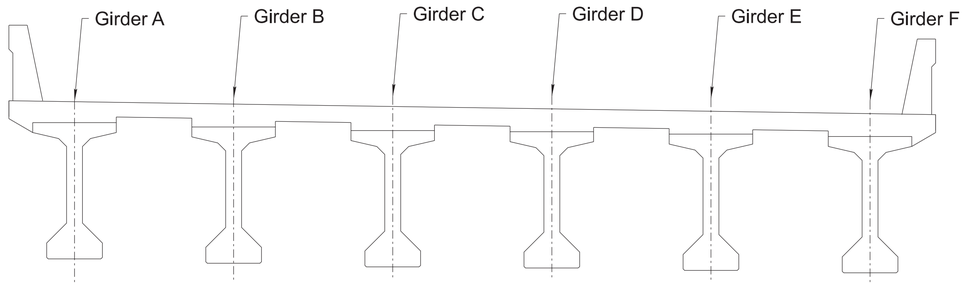
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	75	100	
MILEPOST 10.80	LOCATION SANTA MARIA RIVER BRIDGE						SHEET S-1.24 OF 26
STRUCTURE NO. 20306	TRACS NO. F0584 01C						___ OF ___

DEFLECTION NOTES:

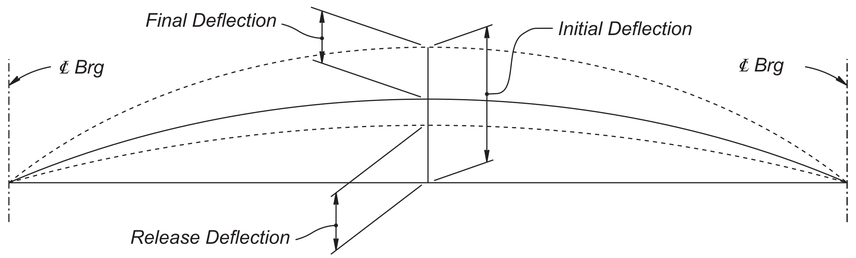
1. *Release Deflection equals the deflection that the prestressed girder undergoes at the time of strand release. The Release Deflection Includes the dead load of the girder & the release prestressing force (including the effects of elastic shortening).*

2. *Initial Deflection equals the deflection the prestressed girder undergoes at the time of erection prior to the diaphragm or deck pours. The Initial Deflection Includes the deflection due to the dead load of the girder, the initial prestressing & the effects of creep up to the time of erection. (Assumed at 60 days after release).*

3. *Final Deflection equals the immediate downward deflection due to the dead load of the deck slab, diaphragms, barriers, and the effects of long-term creep on the composite girders.*



DECK SECTION
(Looking Up Station)
Not to Scale



DEFLECTION DIAGRAM
Not to Scale

SPAN 1 DEFLECTIONS (ft)											
	℄ Brg Abut 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Brg Pier 1 Back
Release (Up)	0.000	0.050	0.091	0.121	0.141	0.148	0.141	0.121	0.091	0.050	0.000
Initial Deflection (Up)	0.000	0.079	0.142	0.191	0.221	0.231	0.221	0.191	0.142	0.079	0.000
Final Deflection (Down)	0.000	0.043	0.081	0.111	0.130	0.136	0.128	0.108	0.078	0.041	0.000

SPAN 2 DEFLECTIONS (ft)											
	℄ Brg Pier 1 Ahead	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Brg Pier 2 Back
Release (Up)	0.000	0.050	0.091	0.121	0.141	0.148	0.141	0.121	0.091	0.050	0.000
Initial Deflection (Up)	0.000	0.079	0.142	0.191	0.221	0.231	0.221	0.191	0.142	0.079	0.000
Final Deflection (Down)	0.000	0.037	0.071	0.099	0.116	0.123	0.116	0.099	0.071	0.037	0.000

SPAN 3 DEFLECTIONS (ft)											
	℄ Brg Pier 2 Ahead	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Brg Abut 2
Release (Up)	0.000	0.050	0.091	0.121	0.141	0.148	0.141	0.121	0.091	0.050	0.000
Initial Deflection (Up)	0.000	0.079	0.142	0.191	0.221	0.231	0.221	0.191	0.142	0.079	0.000
Final Deflection (Down)	0.000	0.041	0.078	0.108	0.128	0.136	0.130	0.111	0.081	0.043	0.000

Registered Professional Engineer (Civil) CERTIFICATE No. 70684 LEO LIAO Date Signed 03/16/2026 ARIZONA, U.S.A.

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ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
CAMBER DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	76	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.25 OF 26

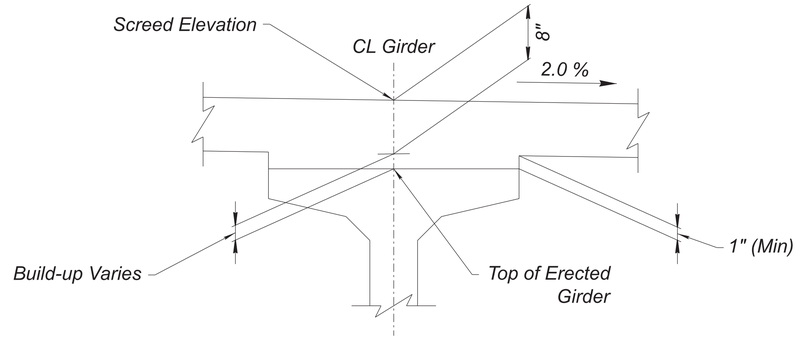
____ OF____

BRIDGE SCREED ELEVATIONS

SPAN 1											
	℄ Brg Abt 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Pier 1
Left Edge of Deck											
℄ Girder A											
℄ Girder B											
℄Girder C											
PGL											
℄ Girder D											
℄ Girder E											
℄ Girder F											
Right Edge of Deck											

SPAN 2											
	℄ Pier 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Pier 2
Left Edge of Deck											
℄ Girder A											
℄ Girder B											
℄ Girder C											
PGL											
℄ Girder D											
℄ Girder E											
℄ Girder F											
Right Edge of Deck											

SPAN 3											
	℄ Pier 2	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ Brg Abt 2
Left Edge of Deck											
℄ Girder A											
℄ Girder B											
℄ Girder C											
PGL											
℄ Girder D											
℄ Girder E											
℄ Girder F											
Right Edge of Deck											



TYPICAL SECTION

(Looking Up Station)
Not to Scale

SCREED ELEVATION NOTES:

1. *Bridge Screed Elevations are taken along lines parallel to centerline of bearings.*
2. *The screed Elevations include an allowance for deflection due to the dead load of the deck slab, build up, barriers and the effects of long term creep, shrinkage and prestress loss.*
3. *Contractor shall survey elevations at 10th points for each span along the top of the girder and furnish the information to the Engineer for determination of Screed Elevations.*
4. *Screed elevations shall be computed and provided by the Engineer as a post-design task, after receipt of the survey elevations at the top of girder as provided by the contractor.*

Registered Professional Engineer (Civil) CERTIFICATE 70684 LEO LIAO Date Signed 03/18/2026 ARIZONA, U.S.A.

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CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
SCREED ELEVATIONS

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

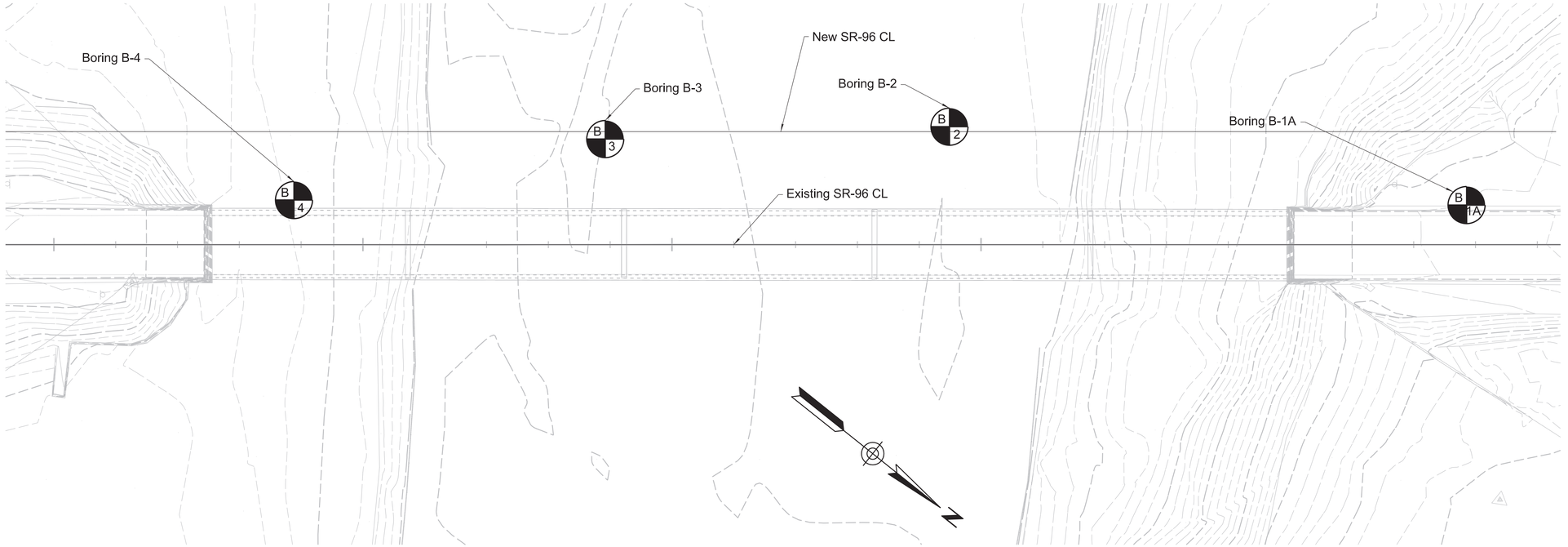
F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 77 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET S-1.26 OF 26

____ OF____



BORING LOCATION PLAN

Scale: 1" = 20'

GENERAL NOTES

1. This information was prepared and is Intended for design and estimate purposes. The subsurface information interpretation is presented in good faith and is not intended as a substitute for personal investigation, independent interpretations or judgement of the contractor or subcontractor.

2. The general soil descriptions and boundaries indicated on the boring logs are based on engineering interpretation of available subsurface information and associated laboratory testing by the geotechnical engineer and may not reflect actual variations in the subsurface conditions between borings and samples. The location of contacts between strata indicated on the logs is to be considered approximate. Changes between material types may be gradual rather than abrupt.

3. Classification of soil materials is in general accordance with ASTM D2488 and is based on feld observations unless accompanied by laboratory test results as presented in the Geotechnical Report

4. The observed water levels and/or subsurface water conditions indicated on the boring logs are as recorded at the time of the field exploration. These water levels and/or moisture conditions can vary significantly with time according to the prevailing climate, rainfall or other factors.

5. A 140-pound hammer with a 30-inch free fall was used to drive the 2-inch O.D. Standard Penetration Test (STP) split-spoo sampler (ASTM D1586) or a 3-inch O.D. Modified California Split Barrel sampler lined with 2.42-inch I.D. brass rings (ASTM D3550).

6. For further subsurface information, refer to the Final Geotechnical Report for this project that can be accessed through Contracts and Specifications website. All geotechnical reports prepared for this project shall be considered by the drilled shaft contractor in developing bid documents

Registered Professional Engineer
CERTIFICATE NO.
45786
TAD C. NIEMYSKI
Date Signed
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOCATION PLAN

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	78	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 1 OF 9

____ OF____

BORING LOG I.D.: B-1A

PROJECT NAME:	Santa Maria River Bridge			**PROJECT #:**	US0029826.9292
LOGGER:	Sai Singhar			**PROJECT LOCATION:**	Yavapai County, AZ
DRILLER:	Chuck			**STATION/OFFSET:**	
DRILLER FIRM:	GSI			**REFERENCE:**	
RIG TYPE:	CME 75			**COORDINATES:**	34.481292, -113.061202
BORING TYPE:	Tubex	**BORING DIA.:**	5.5	**COORDINATE SYS:**	WGS84
ORIENTATION:	Vertical			**SURFACE ELEV. (FT):**	2278
HAMMER CALIBRATION-ENERGY TRANSFER RATIO:	83.2			**VERTICAL DATUM:**	NAD88
START DATE:	12/11/24	**START TIME:**	16:10	**COMPLETION DATE:**	12/13/24 **COMPLETION TIME:** 11:00

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2275.0	0			B				1.3	20	2	16	GM	Slightly moist Very dense	**POSSIBLE FILL - SILTY GRAVEL WITH COBBLES AND SAND**, some predominantly cobbles, occasional boulders, fine to medium grained sand, Predominantly coarse grained gravel, weakly lime cemented, non-plastic, Light tan brown
				S		22-33-37 (70)								
	5			U		50/1"								
2270.0				S		50/5"								
	10			U		50/1"								
2265.0												SM	Slightly moist Very dense	**SILTY SAND**, trace clay, considerable coarse to fine grained subrounded to subangular gravel, predominantly fine to medium grained sand, weakly lime cemented, non-plastic to low plasticity, Brown and light brown
	15			S		46-50/2"								
2260.0	20													

GROUNDWATER

	TIME	DATE
▽		12/13/24
▼		
▼		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-1A

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2255.0	20			S		30-50/1"						SM	Slightly moist Very dense	**SILTY SAND**, trace clay, considerable coarse to fine grained subrounded to subangular gravel, predominantly fine to medium grained sand, weakly lime cemented, non-plastic to low plasticity, Brown and light brown
				S		50/4"								
2250.0	25													
	30			U		50/5"		11.2	NP	NP	15			
2245.0														
	35			S		36-50/5"								Note: increase in amount of clay; sample moist at 35'
2240.0												SC	Wet Very dense	**CLAYEY SAND WITH SILT**, some coarse grained gravel, predominantly fine to medium grained sand, low plasticity, Brown
	40			S		16-50/3"								
2235.0	45													

GROUNDWATER

	TIME	DATE
▽		12/13/24
▼		
▼		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-1A

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2230.0	45			S		50/2"						SC	Wet Very dense	**CLAYEY SAND WITH SILT**, some coarse grained gravel, predominantly fine to medium grained sand, low plasticity, Brown
	50			U		50/3"								
2225.0														
	55			S		25-50/3"						SM	Wet Very dense	**SILTY SAND**, some gravel, trace clay, predominantly fine grained sand, non-plastic to low plasticity, Gray
2220.0														
	60			U		50/4"			NP	NP	14			Note: Brown below 60'
2215.0														
	65			S		50/4"								
2210.0	70													

GROUNDWATER

	TIME	DATE
▽		12/13/24
▼		
▼		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

Registered Professional Engineer
CERTIFICATE NO.
45786
TAD C. NIEMYSKI
RENEWAL
Date Signed
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-1A (PART 1)

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	79	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 2 OF 9

____ OF ____

BORING LOG I.D.: B-1A

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
	70				U	50/3"						SC-SM	Wet Very dense	**SILTY CLAYEY SAND WITH GRAVEL**, coarse to fine grained gravel, predominantly fine to medium grained sand, non-plastic to low plasticity, Brown to reddish brown
2205.0														
	75				S	50/4"								
2200.0														
	80				S	14-34-50/2"								Note: increase in amount of clay; low to medium plasticity; some coarse grained sand at 80'
2195.0														
	85				S	50/4"								
2190.0														
	90				S	35-50/2"		25.8	NP	NP	37	SM	Wet Very dense	**SILTY SAND**, some to considerable gravel, fine grained sand, Non-plastic, Grayish brown
2185.0														
	95													

GROUNDWATER

	TIME	DATE
▽		12/13/20
▼		
▼		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-1A

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
	95				S	50/4"						SM	Wet Very dense	**SILTY SAND**, some to considerable gravel, fine grained sand, Non-plastic, Grayish brown
2180.0														
	100				S	20-50/3"								End boring at 100.8'. Installed Piezometer.
2175.0														
	105													
2170.0														
	110													
2165.0														
	115													
2160.0														
	120													

GROUNDWATER

	TIME	DATE
▽		12/13/20
▼		
▼		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

45786 TAD C. NIEMYSKI REGISTERED ENGINEER ARIZONA, U.S.A. Date Signed

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-1A (PART 2)

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	80	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 3 OF 9

____ OF ____

BORING LOG I.D.: B-2

PROJECT NAME:	Santa Maria River Bridge		**PROJECT #:**	US0029826.9292	
LOGGER:	Sai Singhar		**PROJECT LOCATION:**	Yavapai County, AZ	
DRILLER:	Chuck		**STATION/OFFSET:**		
DRILLER FIRM:	GSI		**REFERENCE:**		
RIG TYPE:	CME 75		**COORDINATES:**	34.480885, -113.060916	
BORING TYPE:	Tubex	**BORING DIA.:** 5.5	**COORDINATE SYS:**	WGS84	
ORIENTATION:	Vertical		**SURFACE ELEV. (FT):**	2265	
HAMMER CALIBRATION-ENERGY TRANSFER RATIO:	83.2		**VERTICAL DATUM:**	NAD88	
START DATE:	12/9/24	**START TIME:** 16:25	**COMPLETION DATE:**	12/11/24	**COMPLETION TIME:** 11:40

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2265.0	0				B			1.0	NP	NP	3	SP	Wet Medium dense	**POORLY GRADED SAND WITH GRAVEL**, some cobbles & boulders (1.5' dia), coarse grained gravel, predominantly medium grained sand, non-plastic, Grayish brown
					S	18-23-47 (70)								
2260.0	5				U	31-38 (69)								
					S	18-22-11 (33)								
2255.0	10				U	9-11 (20)			NP	NP	2.4			
2250.0	15				S	3-6-9 (15)								Note: hard drilling below 16'
2245.0	20											GP-GM	Wet Medium dense to very dense	**POORLY GRADED GRAVEL WITH SILT AND SAND**, Some cobbles, Considerable fine to medium grained sand, predominantly fine to coarse grained gravel, Non-plastic to low plasticity, Brown to light gray

GROUNDWATER

	TIME	DATE
▽		12/10/24
▼	7.0	12/11/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-2

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2245.0	20				S	50/5"						GP-GM	Wet Medium dense to very dense	**POORLY GRADED GRAVEL WITH SILT AND SAND**, Some cobbles, Considerable fine to medium grained sand, predominantly fine to coarse grained gravel, Non-plastic to low plasticity, Brown to light gray
2240.0	25				S	50/4"								Note: increase fines below 25'
2235.0	30				U	50/1"								
2230.0	35				S	50/2"								Note: trace clay at 35'
2225.0	40				S	50/5"						SC	Wet Very dense	**CLAYEY SAND WITH GRAVEL**, coarse grained gravel, predominantly fine to medium grained sand, low plasticity, Yellowish brown
2220.0	45													

GROUNDWATER

	TIME	DATE
▽		12/10/24
▼	7.0	12/11/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-2

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2220.0	45				U	50/5"						SC-SM	Wet Very dense	**SILTY CLAYEY SAND WITH GRAVEL**, some fines, coarse grained gravel, predominantly coarse to fine grained sand, non-plastic to low plasticity, Brown
2215.0	50				U	50/2"								
2210.0	55				S	50/1"								Note: decrease in amount of gravel below 55'
2205.0	60				S	50/4"								
2200.0	65				S	50/5"								
2195.0	70													

GROUNDWATER

	TIME	DATE
▽		12/10/24
▼	7.0	12/11/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

Registered Professional Engineer (Civil) 45786 TAD C. NIEMYSKI DECEMBER 31, 2026 Date Signed ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-2 (PART 1)

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	81	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 4 OF 9

____ OF ____

BORING LOG I.D.: B-2

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2195.0	70				U	50/4"						SM	Wet Very dense	**SILTY SAND**, some fines, Some coarse grained gravel, predominantly coarse to fine grained sand, non-plastic to low plasticity, Brown
2190.0	75				S	32-50/5"		22.7	71	37	29			
2185.0	80				U	50/4"								Note: increase fine grained gravel below 80'
2180.0	85				S	50/3"								
2175.0	90				S	50/3"								
2170.0	95													

GROUNDWATER

	TIME	DATE
▽		12/10/24
▼	7.0	12/11/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-2

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2170.0	95				S	50/4"						SM	Wet Very dense	**SILTY SAND**, some fines, Some coarse grained gravel, predominantly coarse to fine grained sand, non-plastic to low plasticity, Brown
2165.0	100				S	50/4"								End boring at 100.3'. Backfilled with cutting and grouted top 20'.
2160.0	105													
2155.0	110													
2150.0	115													
2145.0	120													

GROUNDWATER

	TIME	DATE
▽		12/10/24
▼	7.0	12/11/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

Registered Professional Engineer — CERTIFICATE NO. 45786 — TAD C. NIEMYSKI — DATE Signed — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-2 (PART 2)

ROUTE	MILEPOST	STRUCTURE NO.
SR 96	10.80	20306

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	82	100	

LOCATION SANTA MARIA RIVER BRIDGE

SHEET 5 OF 9

TRACS NO. F0584 01C

____ OF ____

BORING LOG I.D.: B-3

PROJECT NAME:	Santa Maria River Bridge		**PROJECT #:**	US0029828.9292	
LOGGER:	Sai Singhar		**PROJECT LOCATION:**	Yavapai County, AZ	
DRILLER:	Chuck		**STATION/OFFSET:**		
DRILLER FIRM:	GSI		**REFERENCE:**		
RIG TYPE:	CME 75		**COORDINATES:**	34.480656, -113.060672	
BORING TYPE:	Tubex	**BORING DIA.:** 5.5	**COORDINATE SYS:**	WGS84	
ORIENTATION:	Vertical		**SURFACE ELEV. (FT):**	2265	
HAMMER CALIBRATION-ENERGY TRANSFER RATIO:	83.2		**VERTICAL DATUM:**	NAD88	
START DATE:	12/5/24	**START TIME:** 8:45	**COMPLETION DATE:**	12/9/24	**COMPLETION TIME:** 13:30

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2265.0	0			B				0.9	NP	NP	1.8	SP	Slightly moist Dense	**POORLY GRADED SAND WITH COBBLES AND GRAVEL**, occasional boulcers, predominantly medium to coarse grained subrounded to subangular sand, non-plastic, Gray
				S		15-20-20 (40)								
2260.0	5			U		50/5"							Note: brown below 6'	
				S		12-5-7 (12)								
												SP	Wet Dense	**POORLY GRADED SAND WITH GRAVEL**, occasional cobbles, trace silt, predominantly medium to coarse grained subrounded to subangular sand, non-plastic, Brown
2255.0	10			U		20-21 (41)	117.2	16.2						
2250.0	15			S		21-24-50/5"							Note: trace clay at 15'	
2245.0	20													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼		12/9/24
▽		

7.0

METHOD _____

SAMPLE TYPE

B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-3

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2245.0	20			S		4-2-1 (3)						SP	Wet Dense	**POORLY GRADED SAND WITH GRAVEL**, occasional cobbles, trace silt, predominantly medium to coarse grained subrounded to subangular sand, non-plastic, Brown
2240.0	25			S		9-12-12 (24)						GP	Wet Dense to very dense	**POORLY GRADED GRAVEL WITH SAND**, considerable cobbles, fine to coarse grained sand, predominantly coarse grained subrounded to subangular gravel, non-plastic, Dark reddish brown to light gray
2235.0	30			U		24-27 (51)			NP	NP	1.5			
2230.0	35			S		16-28-25 (53)								
2225.0	40			S		21-35-50/4"			36	13	17	SC	Wet Very dense	**CLAYEY SAND WITH GRAVEL**, some silt, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2220.0	45													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼		12/9/24
▽		

7.0

METHOD _____

SAMPLE TYPE

B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-3

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2220.0	45			S		18-50/4"						SC	Wet Very dense	**CLAYEY SAND WITH GRAVEL**, some silt, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2215.0	50			U		50/4"						SM	Wet Very dense	**SILTY SAND WITH GRAVEL**, some clay, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2210.0	55			S		27-50/3"		24.1	47	15	32			
2205.0	60			S		39-50/4"								
2200.0	65			S		32-50/3"						SC	Wet Very dense	**CLAYEY SAND WITH GRAVEL**, some silt, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2195.0	70													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼		12/9/24
▽		

7.0

METHOD _____

SAMPLE TYPE

B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

Registered Professional Engineer — CHRISTIAN TAO C. NIEMYSKI — 45786 — Date Signed — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-3 (PART 1)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	83	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 6 OF 9

____ OF ____

BORING LOG I.D.: B-3

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2195.0	70				U	50/5"						SC-SM	Wet Very dense	**CLAYEY SILTY SAND with GRAVEL**, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2190.0	75				S	50/3"								
2185.0	80				S	50/3"								
2180.0	85				S	50/5"								Note: decrease clay and increase silt
2175.0	90				U	50/5"								
2170.0	95													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼	7.0	12/9/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-3

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2170.0	95				S	50/1"						SC-SM	Wet Very dense	**CLAYEY SILTY SAND with GRAVEL**, coarse grained gravel, predominantly coarse to fine grained sand, low plasticity, Brown
2165.0	100				S	50/4"								
2160.0	105				S	50/1"								
2155.0	110				S	50/1"								
2150.0	115				S	50/2"								
2145.0	120													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼	7.0	12/9/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-3

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2145.0	120					50/1"								
2140.0	125													End boring at 120.1'. Backfilled with cutting and grouted top 20'.
2135.0	130													
2130.0	135													
2125.0	140													
2120.0	145													

GROUNDWATER

	TIME	DATE
▽		12/6/24
▼	7.0	12/9/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

Registered Professional Engineer — CERTIFICATE NO. 45786 — TAO C. NIEMYSKI — Date Signed 03/26/2026 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-3 (PART 2)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	84	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 7 OF 9

____ OF ____

BORING LOG I.D.: B-4

PROJECT NAME:	Santa Maria River Bridge		**PROJECT #:**	US0029826.9292	
LOGGER:	Sai Singhar		**PROJECT LOCATION:**	Yavapai County, AZ	
DRILLER:	Chuck		**STATION/OFFSET:**		
DRILLER FIRM:	GSI		**REFERENCE:**		
RIG TYPE:	CME 75		**COORDINATES:**	34.480478, -113.06041	
BORING TYPE:	Tubex	**BORING DIA.:** 5.5	**COORDINATE SYS:**	WGS84	
ORIENTATION:	Vertical		**SURFACE ELEV. (FT):**	2270	
HAMMER CALIBRATION-ENERGY TRANSFER RATIO:	83.2		**VERTICAL DATUM:**	NAD88	
START DATE:	12/2/24	**START TIME:** 12:20	**COMPLETION DATE:**	12/4/24	**COMPLETION TIME:** 12:40

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2270.0	0			B								SP	Slightly moist Medium dense	**POORLY GRADED SAND WITH COBBLES AND GRAVEL**, occasional boulders 1.5' in dia, coarse to fine grained subrounded to subangular gravel, predominantly fine to medium grained sand, non-plastic, Grayish brown
				S		8-7-8 (15)								
2265.0	5			U		24-50/1"						GP	Slightly moist Medium dense to dense	**POORLY GRADED GRAVEL WITH COBBLES AND SAND**, occasional boulders 1.5' in dia, fine to medium grained sand, predominantly coarse to fine grained subrounded to subangular gravel, non-plastic, Grayish brown
				S		9-8-18 (26)								
2260.0	10			U		14-20 (34)		2.6	NP	NP	4.8			Note: brown and reddish brown below 11'
														Note: cutting becomes wet
2255.0	15			S		4-15-22 (37)								Note: wet sample at 15'
												SP	Wet Dense	**POORLY GRADED SAND WITH GRAVEL**, occasional cobbles, coarse to fine grained subrounded to subangular gravel, predominantly fine to medium grained sand, non-plastic, Grayish brown
2250.0	20													

(Continued Next Page)

GROUNDWATER

	TIME	DATE
▽		12/3/24
▼	12.0	12/4/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

BORING LOG I.D.: B-4

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2250.0	20			S		17-10-2 (12)						SP	Wet Medium dense	**POORLY GRADED SAND WITH GRAVEL**, occasional cobbles, coarse to fine grained subrounded to subangular gravel, predominantly fine to medium grained sand, non-plastic, Grayish brown
2245.0	25			S		4-4-12 (16)								Note: 2" clay seam in the sampler at 25' Note: 3-5' of heaving sand encountered at 25-27.5'
2240.0	30			U		8-13 (21)			NP	NP	0.9			Note: increasae coarse sand below 30'
2235.0	35			S		11-20-10 (30)								Note: increase fines below 35'
2230.0	40			S		8-15-7 (22)								Note: black fines in wash out between 42-44'
2225.0	45													

GROUNDWATER

	TIME	DATE
▽		12/3/24
▼	12.0	12/4/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-4

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2225.0	45			S				11.8	23	2	5.8	SP-SM	Wet Very dense	**POORLY GRADED SAND WITH SILT AND GRAVEL**, Trace of clay, coarse to fine grained subrounded to subangular gravel, predominantly coarse to fine grained sand, low plasticity, Light brown and gray
2220.0	50			U		34-50/2"								Note: hard drilling between 50-55'
2215.0	55			S		50/4"						SM	Wet Very dense	**SILTY SAND**, trace gravel and clay, predominantly coarse to fine grained sand, low plasticity, Tan brown
2210.0	60			S		36-50/4"								
2205.0	65			S		50/4"								Note: increase fine grained sand below 65'
2200.0	70													

GROUNDWATER

	TIME	DATE
▽		12/3/24
▼	12.0	12/4/24
▽		

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

Registered Professional Engineer
CERTIFICATE NO.
45786
TAD C. NIEMYSKI
RENEWAL DATE
Date Signed
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-4 (PART 1)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	85	100	

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 8 OF 9

____ OF ____

BORING LOG I.D.: B-4

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2200.0	70				U				32	13	15	SC	Wet Very dense	**CLAYEY SAND WITH GRAVEL**, some to considerable silt, coarse to fine grained subrounded to subangular gravel, predominantly coarse to fine grained sand, low plasticity, Yellowish brown
2195.0	75				S	38-50/5"								
2190.0	80				S	50/3"								Note: hard drilling; increase gravel with depths; stratified with sand
2185.0	85				S	50/2"								
2180.0	90				S	50/3"								
2175.0	95													

GROUNDWATER

	TIME	DATE
		12/3/24
12.0		12/4/24

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

(Continued Next Page)

BORING LOG I.D.: B-4

PROJECT: Santa Maria River Bridge **PROJECT LOCATION:** Yavapai County, AZ

Elevation in Feet	Depth in Feet	Drill Rate Min/ft.	Graphical Log	Sample	Sample Type	Blow Count / Pocket pen. (tsf)	Lab Tests: Dry Density (pcf)	Lab Tests: Moisture Content (%) of Dry Weight	Lab Tests: Liquid Limit (%)	Lab Tests: Plasticity Index	Lab Tests: Percent passing #200 Sieve	Unified Soil Classification	REMARKS	VISUAL CLASSIFICATION
2175.0	95				S	32-50/1"						SM	Wet Very dense	**SILTY SAND WITH GRAVEL (POSSIBLE DECOMPOSED MUDSTONE OR SILTSTONE)**, fine grained gravel, predominantly fine grained sand, low plasticity, Light pinkish brown
2170.0	100				S	50/3"								End boring at 100.3'. Backfilled with cutting and grouted top 20'.
2165.0	105													
2160.0	110													
2155.0	115													
2150.0	120													

GROUNDWATER

	TIME	DATE
		12/3/24
12.0		12/4/24

METHOD _____

SAMPLE TYPE
B - Bulk Sample
S - 2" O.D. 1.38" I.D. Split Spoon Sample
U - 3" O.D. 2.42" I.D. Ring Sample
NR - No Recovery

Registered Professional Engineer
CERTIFICATE NO.
45786
TAO C. NIEMYSKI
Date Signed 03/26/2025
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	L. Liao	3/26
DRAWN	L. O'Rourke	3/26
CHECKED	I. Tullao	3/26
TEAM LEADER	R. Cvijanovic	3/26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP
STA 26+
SANTA MARIA RIVER BRIDGE
BORING LOG B-4 (PART 2)

ROUTE SR 96
MILEPOST 10.80
STRUCTURE NO. 20306

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	86	100	

LOCATION SANTA MARIA RIVER BRIDGE

SHEET 9 OF 9

TRACS NO. F0584 01C

____ OF ____

CONTROL MEASURE INDEX SHEET (CMIS)

TO BE COMPLETED FOR PROJECT WITH ONE (1) ACRE OR MORE OF SOIL/GROUND DISTURBANCE Outside of Jurisdictional Waters of the U.S. (≥1 ACRE*)

* For projects that meet the definition of maintenance under AZPDES CGP, the permit threshold is five (≥5) Acres. Consult with ADOT EP Water Resources Management to define Jurisdictional Waters of the U. S.

I. PROJECT DESCRIPTION

A. Owner Name and Address:

Arizona Department of Transportation
205 South 17th Avenue
Phoenix, Arizona 85007-3213

B. Project TRACS Number: F0584 01C

C. Project Name/Location (be consistent with the plan set cover sheet):

SR—96, Santa Maria Bridge Replacement
(MP 10 to MP 11)

City: _____ County: _____

Beginning Latitude (NAD 83): 34°29'30.1308"

Beginning Longitude (NAD 83): -113°03'52.5528"

Ending Latitude (NAD 83): 34°28'43.8816"

Ending Longitude (NAD 83): -113°03'31.5108"

To obtain the project latitude/longitude data, refer to the Flash Earth web link below (Bing Maps with labels):

http://www.flashearth.com/

D. Project Description:

Replacing the existing bridge & asphaltic concrete pavement, paving chip seal with fog coat, replacing cattle guard, replacing guardrail, as well as pavement marking.

II. HYDROLOGIC INFORMATION

A. Percentage of the site that is impervious before and after construction:

Percentage before Construction: 13.27%

Percentage after Construction: 21.43%

B. Receiving Water(s), refer to the plan set cover sheet and the NHD Plus HR Availability Map Web Link below:

https://usgs.maps.arcgis.com/apps/MapTools/index.html?appid=41a5c2ca49bd4a83b239450e61022d53

(If unnamed, state as unnamed)

Santa Maria River

III. SOIL STABILIZATION MEASURES

☒ All disturbed soil, which will not be paved, riprapped or otherwise covered to prevent erosion, will be revegetated and/or landscaped in accordance with the project plans and specifications.

IV. MEASURES TO CONTROL STORMWATER AND AIR QUALITY

A. Temporary Stormwater and Air Quality Control Measures (CMs) / Best Management Practices (BMPs)

- ☐ Temporary Diversion Dikes
- ☒ Temporary Rock Check Dams
- ☒ Stabilized Construction Entrance/Exit Gravel Pad
- ☐ Soil Stabilizer for Wind Erosion and Dust Control
- ☐ Rock Inlet/Outlet Protection
- ☐ Sediment Control Berms
- ☐ Silt Fences
- ☒ Wattles (Excelsior/Straw/Compost)
- ☐ Excelsior Logs / Sediment Logs
- ☐ Erosion Control Mattings
- ☒ Seeding (Class II with final mulch cover)
- ☐ Gravelbag
- ☐ Catch Basin Temporary Fabric Filter
- ☐ Designated Washout Areas
- ☐ Protected Chemical and Material Storage Area
- ☐ Equipment Maintenance Procedures
- ☒ Others Describe:

Minimum 4 STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PADs have been estimated. The contractor shall propose the locations as evaluated and approved by the Engineer.

The contractor shall also flatten / re-grade Rock Check Dams to the finished ditch grade, grade back, and level Check Dams within the ditch, as soon as practicable, when the project site achieves Final Stabilization as approved by the Engineer.

After evaluated and approved by the Engineer, the contractor shall remove temporary stormwater quality protection CMs/BMPs if they interfere with safety, construction, structure, designed drainage capacity, and/or roadway/pavement features.

B. Permanent and Post-construction Stormwater and Air Quality Control Measures (CMs) / Best ManagementPractices (BMPs):

- ☐ Crown Ditch/Dike
- ☒ Rock Protection
- ☐ Rock Riprap Channel Lining
- ☐ Sediment Basin
- ☐ Embankment Curb
- ☐ Spillways
- ☐ Downdrains
- ☐ Minibenching
- ☐ Solid Waste Management
- ☐ **Rock-filled Stormwater Infiltration CM/BMP as Infiltration Basin and/or Trench
- ☐ **Filtration Structures
- ☐ **Infiltration Basin and/or Trench
- ☐ **Retention and/or Detention Basins
- ☐ **Bioretention
- ☐ **Manufactured Treatment Devices
- ☒ Seeding established as a perennial vegetative cover with a density of 70% of the native background vegetative cover.
- ☐ Others Describe:

** Track and report to ADOT EP Water Resources Management: ADOTWater@azdot.gov

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

REGISTERED PROFESSIONAL ENGINEER — 18943 JOHN R. HUEKO — Date Signed 3-17-2026 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

STORMWATER & AIR QUALITY CONTROL MEASURE INDEX SHEET (CMIS)

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	87	100	

LOCATION: SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET 1 OF 1
___ OF ___

ESTIMATED STORMWATER QUALITY PROTECTION CMs/BMPs' TOTAL QUANTITIES					
DETAIL NO.	ITEM	LEGEND	UNIT	TOTAL	RECORD DRAWING DATA
ES1	STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD	N/A	SQ. YD.	680	
ES3	SEDIMENT WATTLE 20" DIA	SW	L.FT.	1700	
ES3/ES4	SEDIMENT WATTLE 9" DIA	N/A	L.FT.	3040	
ES2	ROCK CHECK DAM (Gradation C - Rock Mulch)		CU. YD.	180	
ES5/ES6	ROCK PROTECTION (Gradation C - Rock Mulch)		CU. YD.	66	

Notes:
CMs/BMPs' Quantities shown are for estimating and establishing unit cost only. Actual payment quantity shall be verified in the field and approved by the Engineer.

Seed all unpaved disturbed soil areas. Soil tillage for seeding shall create soil furrows and form minor ridges parallel to the slope contours to retard erosion, alleviate surface runoff, encourage water infiltration, as well as promote revegetation.

In addition to the Class II Seeding Mix H2 applied to the unpaved disturbed Santa Maria River riverbed, other unpaved disturbed project areas shall be stabilized with Seeding Mix H1 according to the Item 8050003 of project Special Provisions.

Seeding (Mix H2) the unpaved disturbed Santa Maria River riverbed below the Ordinary High Water Mark (OHWM) shall exclude any definable low flow channel(s), and area(s) directly under Santa Maria River Bridges. Refer to project Special Provisions for further instructions.

Make field adjustments to ensure rock check dams are symmetrically installed across the centerline of the ditch. Adjust the locations of rock check dams as per the direction of the Engineer.

Field adjust and correct Erosion/Sediment Control as well as Stormwater Quality CMs/BMPs immediately if they are causing flooding and/or affecting roadway safety.

Make necessary field adjustments to ensure the layout/installation of seeding, and all erosion/sediment control measures are accomplished according to the actual limits of soil/ground disturbance as approved by the Engineer.

Revised Gradation C Rock Mulch (refer to the Sub-section 810-2.03 of the project Special Provisions).

REGISTERED PROFESSIONAL ENGINEER
18943
JOHN R. HUCKO
Date Signed 3-17-2026
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	88	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE						SHEET 1 OF 1
STRUCTURE NO.	TRACS NO. F0584 01C						___ OF___



	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
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PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 14+40 TO 20+20

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

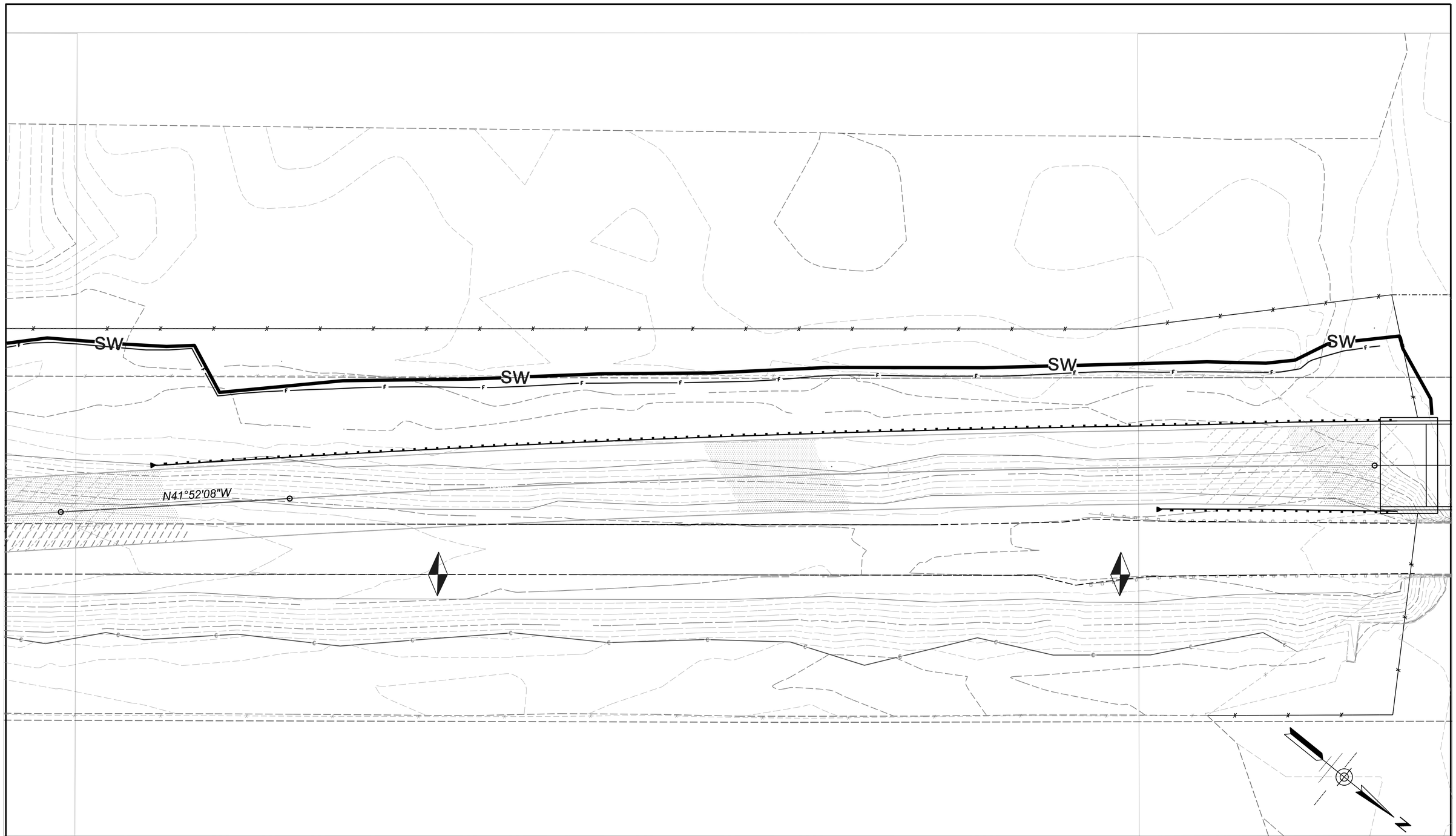
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	89	100	

LOCATION: SANTA MARIA RIVER BRIDGE

SHEET 1 OF 6

TRACS NO. F0584 01C

___ OF ___



	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
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REGISTERED PROFESSIONAL ENGINEER
18943
JOHN R.
HUCKO
Date Signed 3-17-2026
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 20+30 TO 26+00

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	90	100	

LOCATION: SANTA MARIA RIVER BRIDGE

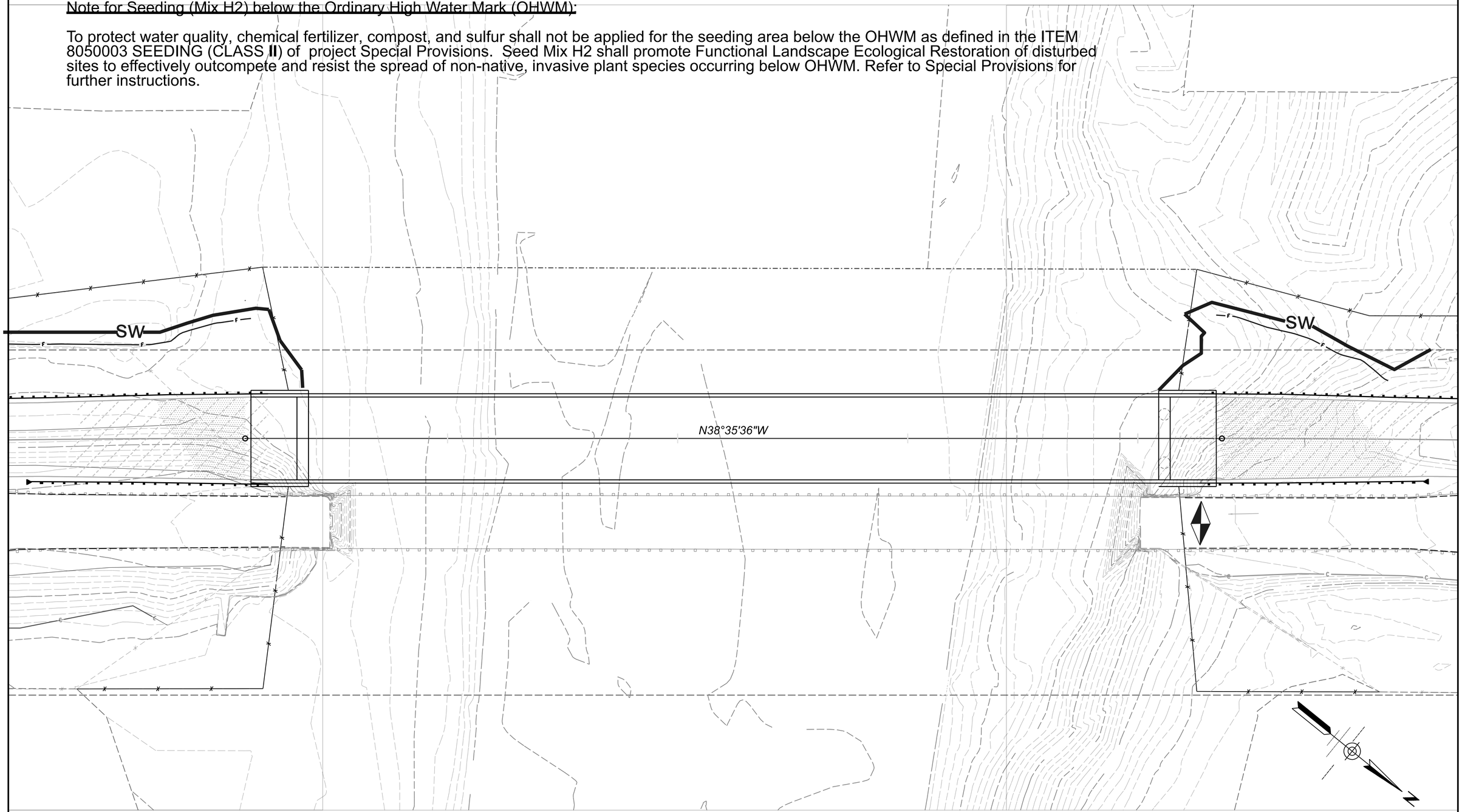
TRACS NO. F0584 01C

SHEET 2 OF 6

___ OF ___

Note for Seeding (Mix H2) below the Ordinary High Water Mark (OHWM):

To protect water quality, chemical fertilizer, compost, and sulfur shall not be applied for the seeding area below the OHWM as defined in the ITEM 8050003 SEEDING (CLASS II) of project Special Provisions. Seed Mix H2 shall promote Functional Landscape Ecological Restoration of disturbed sites to effectively outcompete and resist the spread of non-native, invasive plant species occurring below OHWM. Refer to Special Provisions for further instructions.



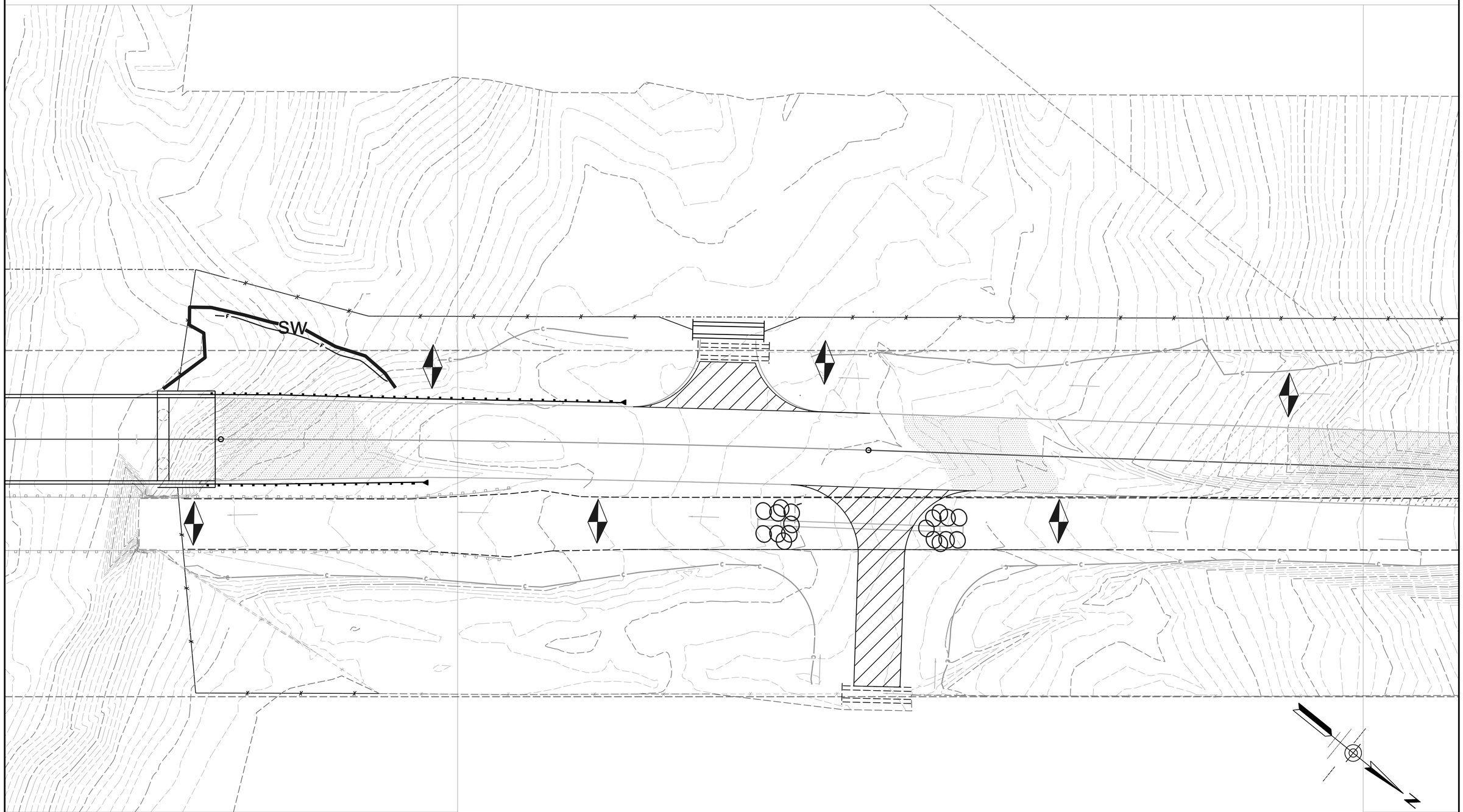
	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
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18943 JOHN R. HUCKO — Date Signed 3-17-2026 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 26+00 TO 30+25

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96		ARIZ.	096 YV 010	096-A(200)T	91	100	
MILEPOST	LOCATION SANTA MARIA RIVER BRIDGE						SHEET 3 OF 6
STRUCTURE NO.	TRACS NO. F0584 01C						___ OF ___



	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
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TEAM LEADER	E. LEROY BRADY	03-26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

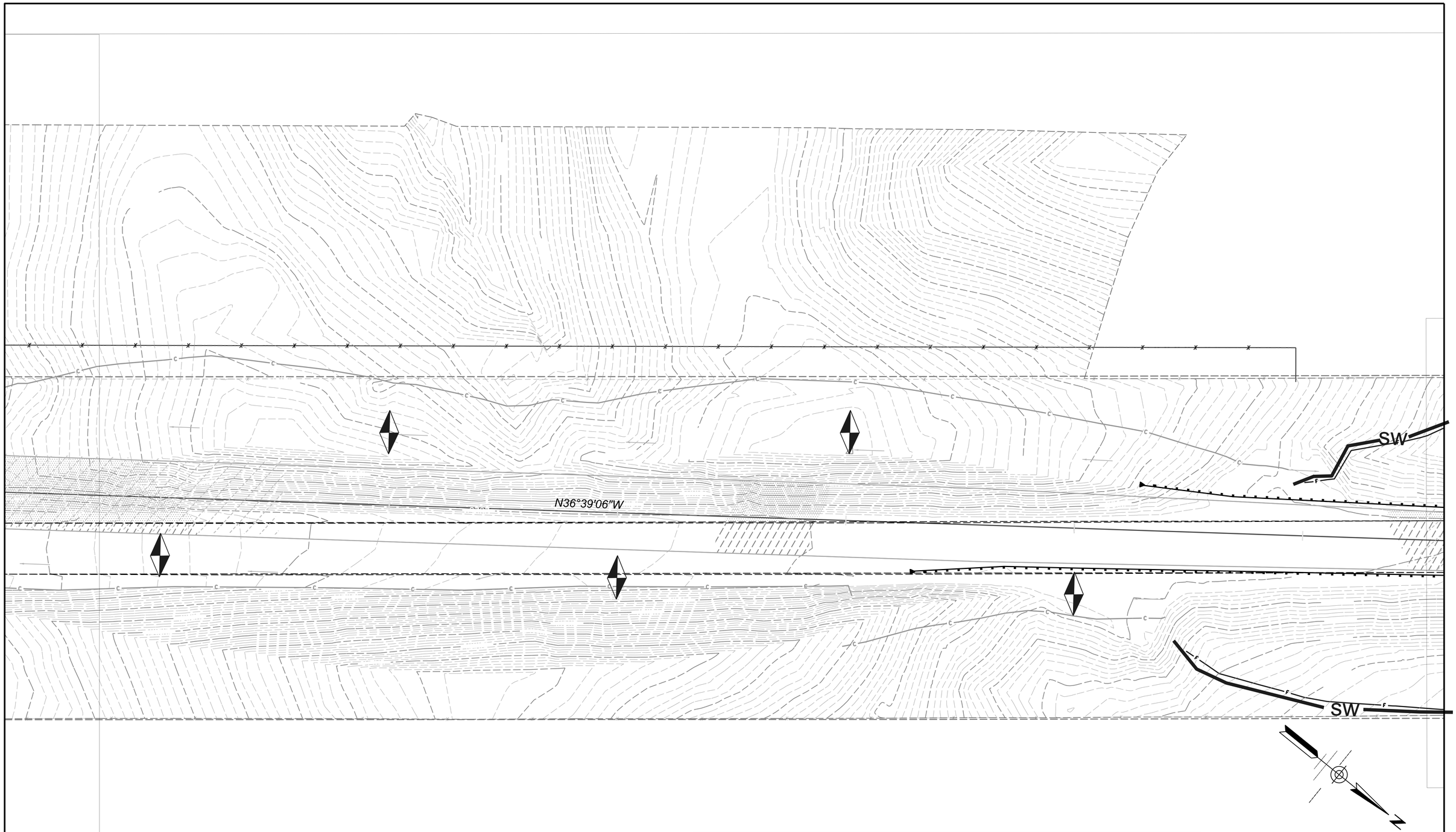
SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 30+25 TO 35+65

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	92	100	

LOCATION: SANTA MARIA RIVER BRIDGE
SHEET 4 OF 6
TRACS NO. F0584 01C
___ OF ___

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	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

18943 JOHN R. HUCKO — Date Signed 3-17-2026 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 35+65 TO 41+15

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.

F.H.W.A. Arizona Division

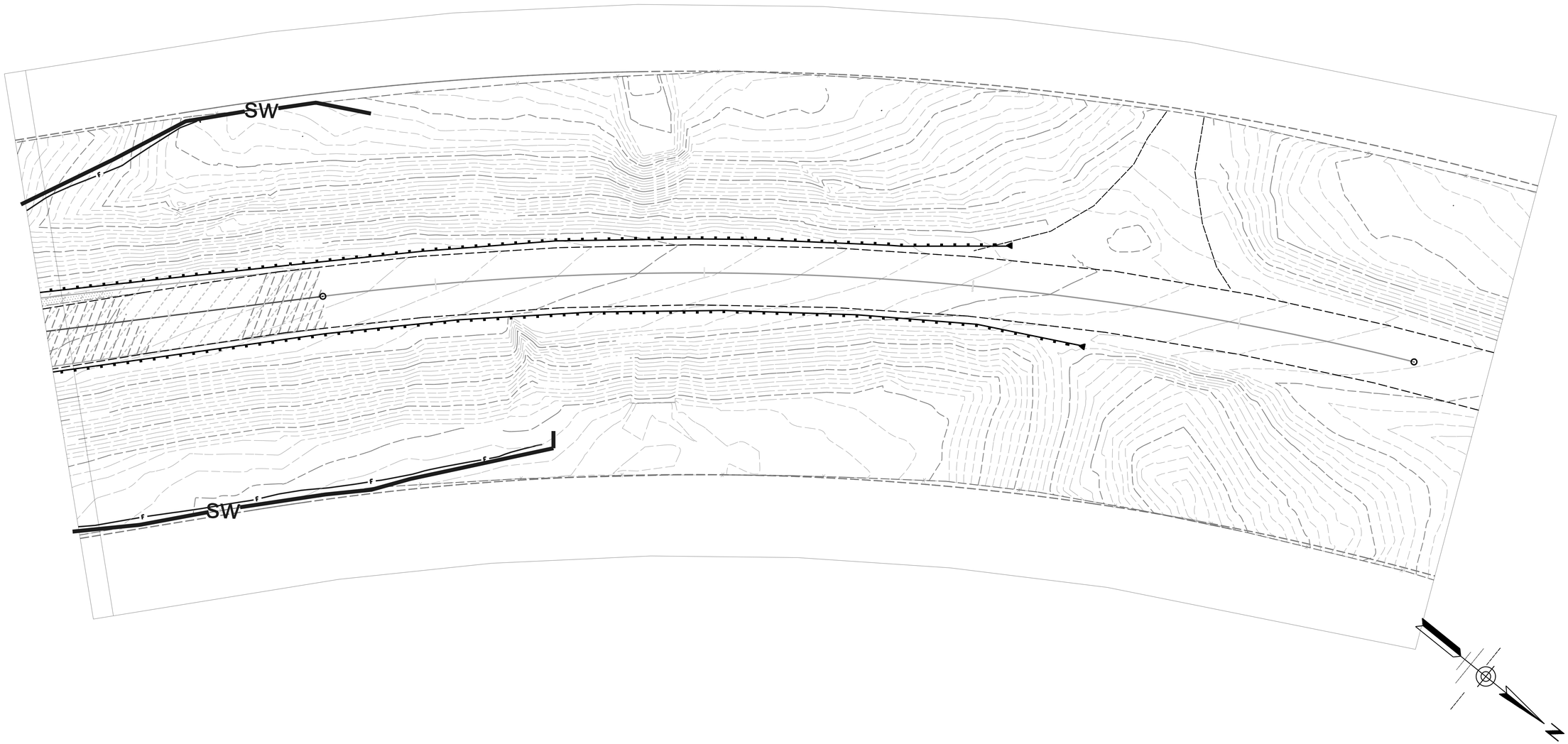
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	93	100	

LOCATION: SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

SHEET 5 OF 6

___ OF ___



	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

REGISTERED PROFESSIONAL ENGINEER
18943
JOHN R.
HUCKO
Date Signed 3-17-2026
ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

SR 96
Stormwater Quality Protection CMs/BMPs Layout Sheet
STA 41+15 TO 42+58

ROUTE: SR 96
MILEPOST:
STRUCTURE NO.:

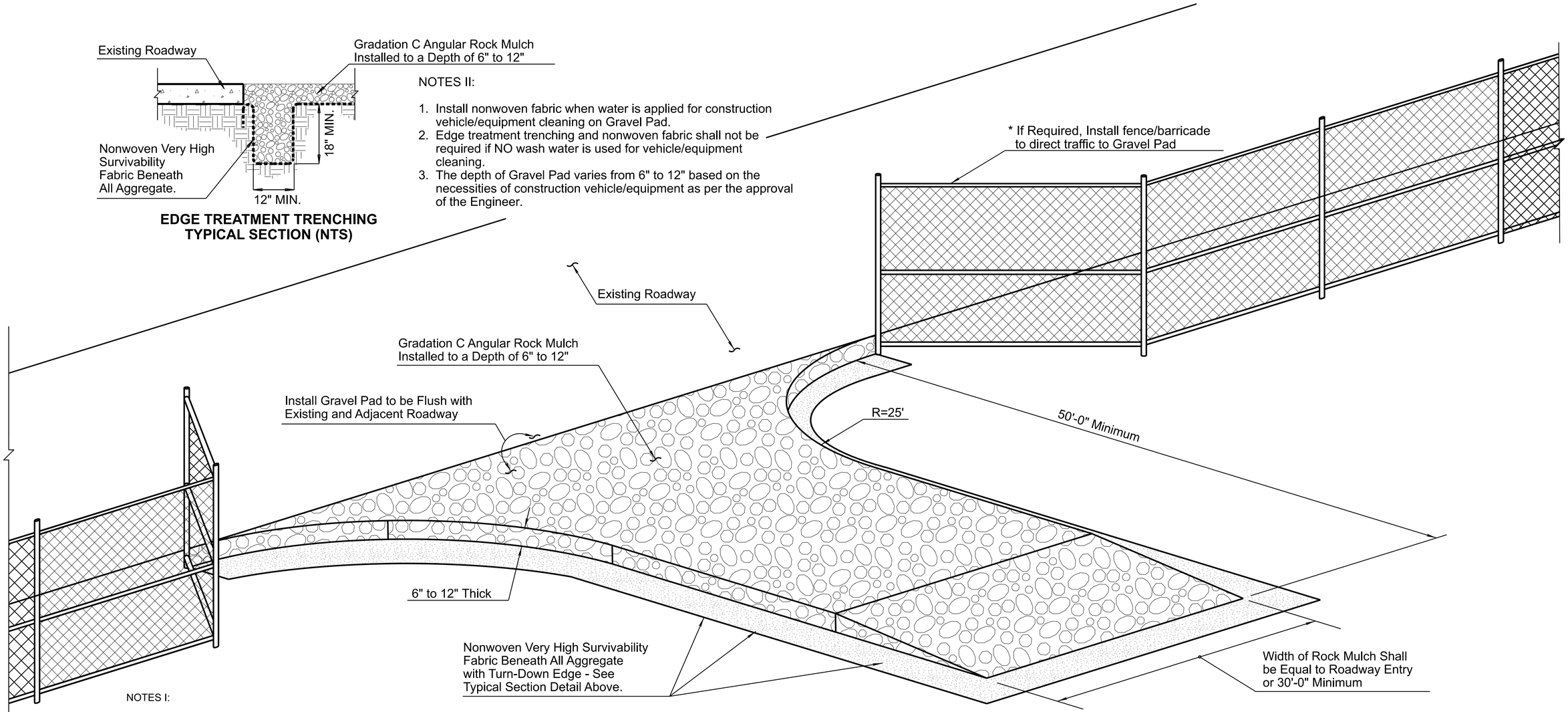
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	94	100	

LOCATION: SANTA MARIA RIVER BRIDGE
SHEET 6 OF 6
TRACS NO. F0584 01C
___ OF ___

EDGE TREATMENT TRENCHING
TYPICAL SECTION (NTS)

NOTES II:

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



BIRD'S EYE VIEW (NTS)

NOTES I:

1. Install Stabilized Construction Entrance/Exit Gravel Pad CM/BMP for traffic entering or exiting a construction site where sedimentation, clay, silt or other pollutants can be tracked onto public roads and/or adjacent water bodies, as approved by the Engineer. It may also be applied for construction entrance/exit wind erosion/dust control, as approved by the Engineer.
2. Locate new Construction Entrance(s)/Exit(s) at appropriate project entrance/exit points as determined in field with the approval of the Engineer. Relocate Stabilized Construction Entrance/Exit Gravel Pad CM/BMP as needed as project progresses. Replace Rock Mulch materials in drive paths when dirt or mud accumulates.
3. Nonwoven Very High Survivability Fabric shall conform to the standards of Sub-section 1014-4.04 of the Specifications.
4. Rock Mulch materials shall be fractured/crushed rocks in angular shape and as defined in the Sub-section 810-2.03 of the Specifications. Natural river-run materials, especially rounded natural river rocks are not acceptable.
5. Make field adjustments and corrections of Construction Entrance/Exit Gravel Pad CM/BMP immediately if it is causing flooding and/or affecting roadway safety.
6. When paid separately, the Stabilized Construction Entrance/Exit Gravel Pad CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, final removal, and disposal of this temporary BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
7. * Fence/barricade pay/bid item shall not be included as a component of the Stabilized Construction Entrance/Exit Gravel Pad CM/BMP pay/bid item.
8. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES1

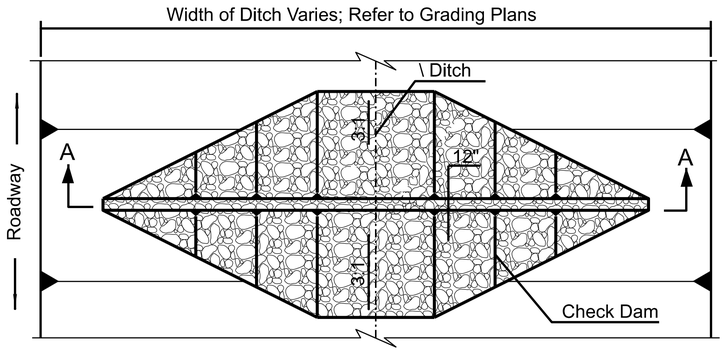
STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

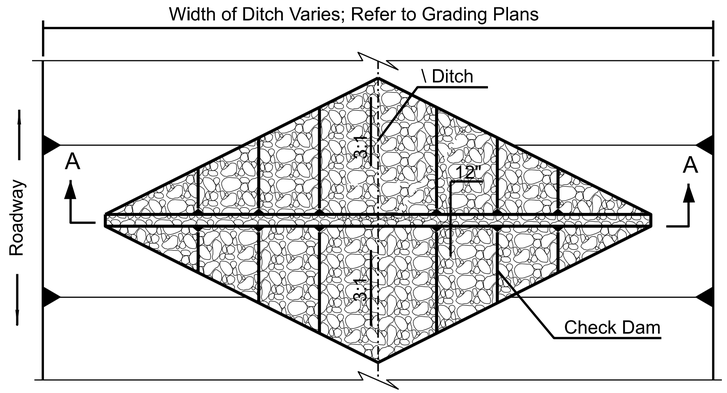
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	95	100	
MILEPOST						
STRUCTURE NO.						

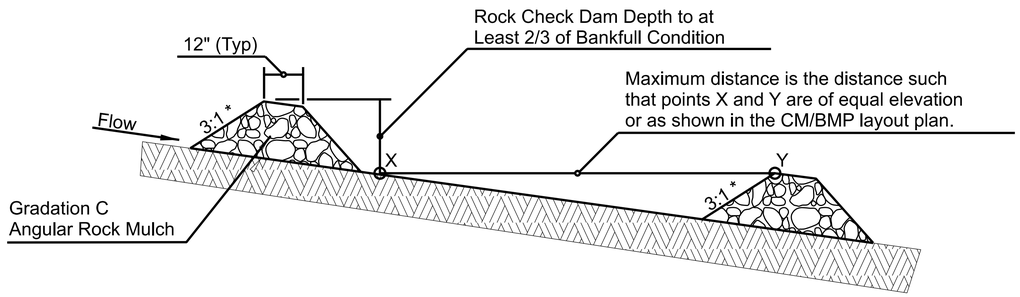
F.H.W.A. Arizona Division
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET 1 OF 6
___ OF ___



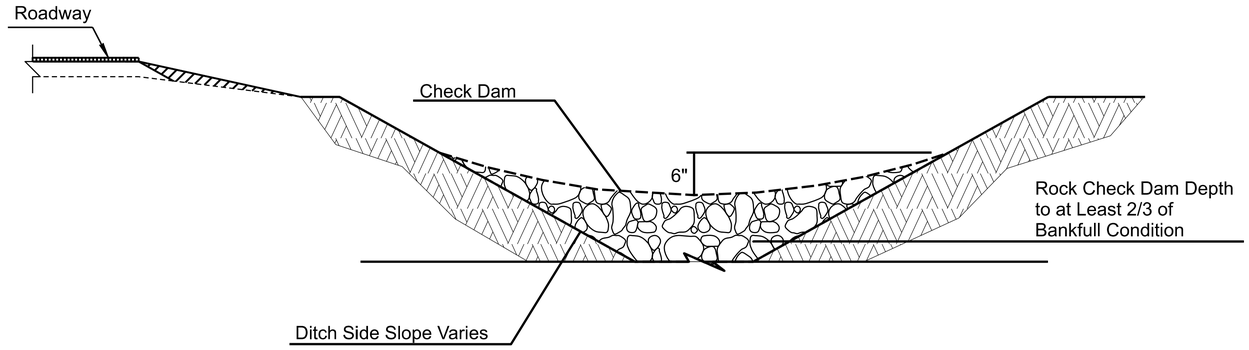
TRAPEZOIDAL DITCH PLAN (NTS)



V-DITCH PLAN (NTS)



ELEVATION ALONG DITCH SLOPE (NTS)



SECTION A-A
TRAPEZOIDAL- OR V-DITCH
(NTS)

NOTES:

1. Construct Rock Check Dams with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Specifications and these special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. * Slope shall be 1(V) : 6(H) or flatter if Check Dam is within the traffic clear zone/recovery areas as defined in ADOT Roadway Design Guidelines (303.2 to 303.3 Roadside Recovery Area).
3. Make field adjustments of sizing and spacing of Rock Check Dams as necessary for traffic safety as well as proper functioning of the drainage facilities.
4. Flatten and re-grade Rock Check Dams to the finished grade, level within the ditch, as soon as practicable for Final Stabilization.
5. Make field adjustments and corrections of Rock Check Dam CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
6. Make field adjustments to ensure the top of the Rock Check Dam is approximately 2/3 height of the estimated ditch bankfull level.
7. When paid separately, the Rock Check Dam CM/BMP pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintenance, flattening/grading back to the finished grade, as well as returning the area to an acceptable condition as approved by the Engineer.
8. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES2

ROCK CHECK DAM

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION

STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
SR 96	ARIZ.	096 YV 010	096-A(200)T	96	100	

MILEPOST

STRUCTURE NO.

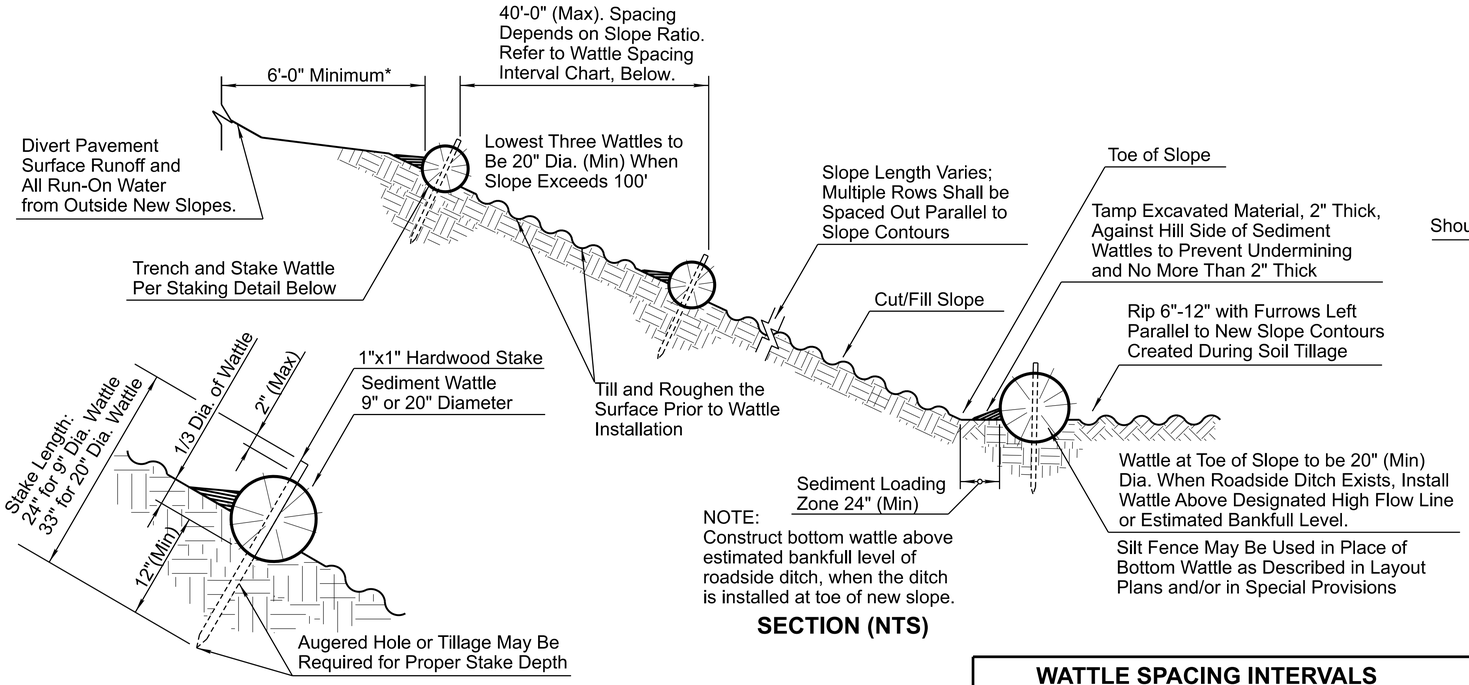
F.H.W.A. Arizona Division

LOCATION SANTA MARIA RIVER BRIDGE

TRACS NO. F0584 01C

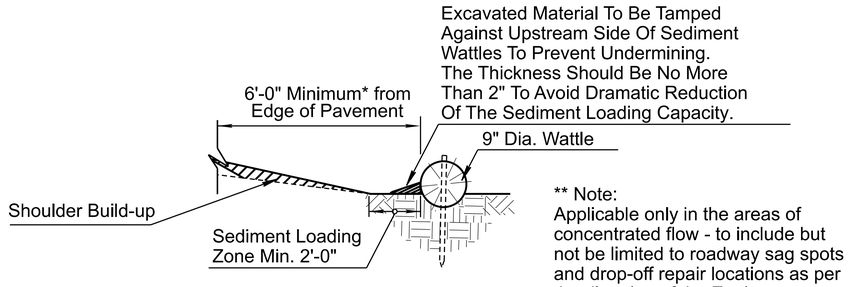
SHEET 2 OF 6

___ OF ___



SEDIMENT WATTLE STAKING DETAIL (NTS)

SECTION (NTS)



** Note:
Applicable only in the areas of concentrated flow - to include but not be limited to roadway sag spots and drop-off repair locations as per the direction of the Engineer.

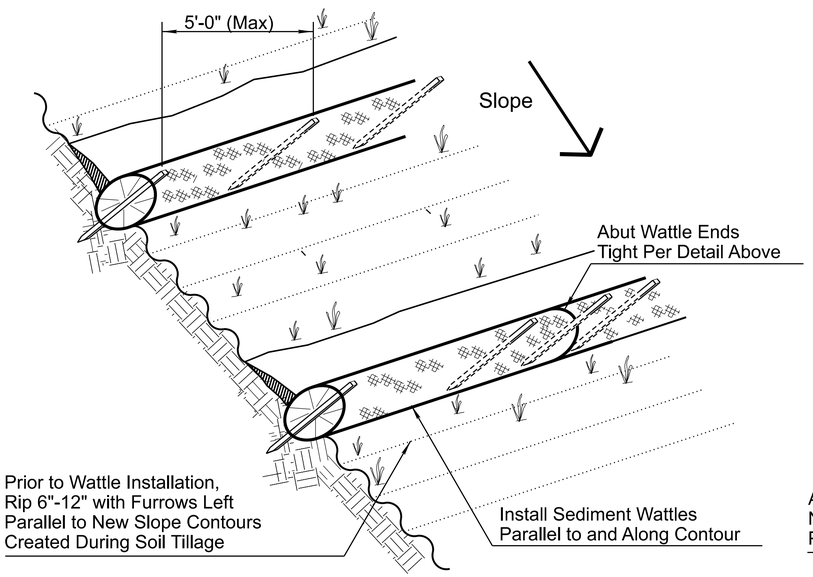
NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	Maximum Spacing Interval
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

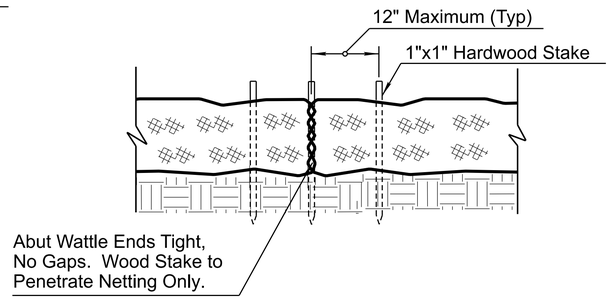
* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.

NOTES:

1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor where cable barrier systems are employed.
2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.
3. Butt adjoining wattles tightly against each other. Drive the first end stake of the second wattle at an angle toward the first wattle to help abut them tightly.
4. Repair any rills or gullies promptly. Make field adjustments and corrections of Wattle CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
5. Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching CM/BMP Detail.
6. Loosening surface soil is not required where Minibenches are used. For seeded areas, tillage shall be performed to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Specifications and these project special provisions.
7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to divert run-on water.
8. Installation and maintenance of Sediment Wattle CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
9. Install and maintain Sediment Wattle CMs/BMPs to carry the stormwater of at least 2-year, 24-hour events.
10. The Sediment Wattle CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary CM/BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
11. Refer to Specification Section 810-2.06(C) for Sediment Wattle material specifications.
12. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (NTS)

DETAIL ES3
SEDIMENT WATTLE

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
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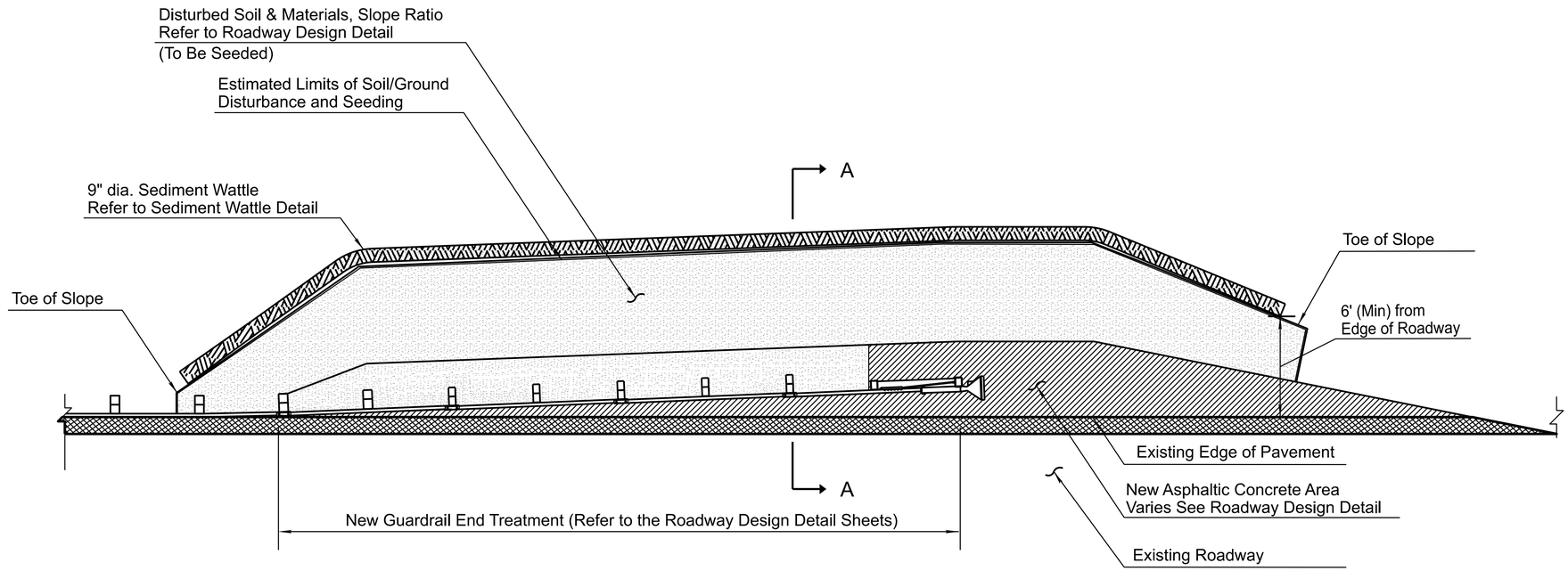
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE SR 96 | MILEPOST | STRUCTURE NO.

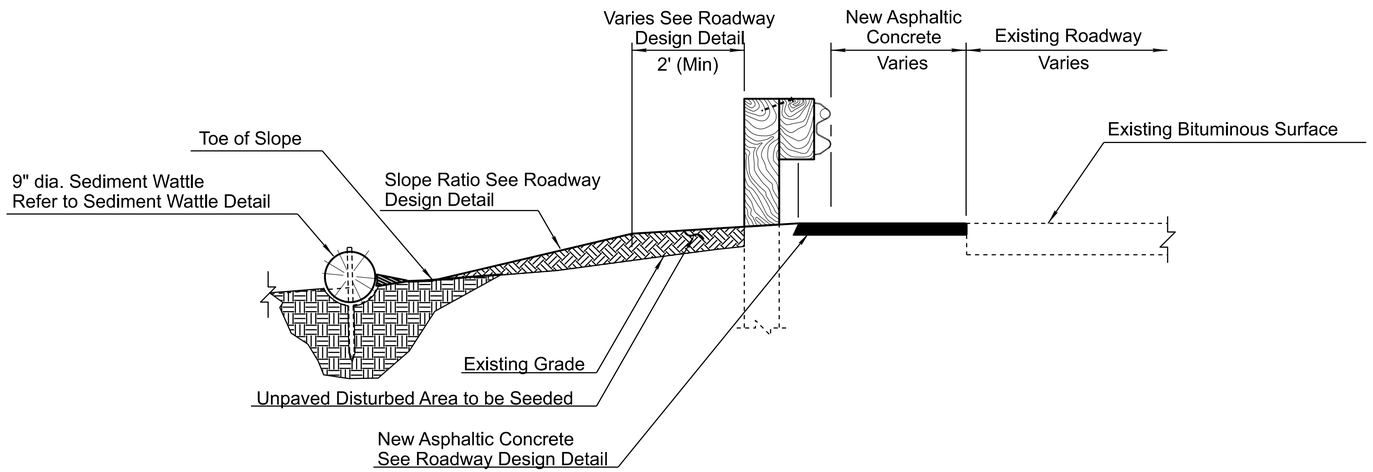
F.H.W.A. Arizona Division | STATE ARIZ. | PROJECT NO. 096 YV 010 | FEDERAL ID NO. 096-A(200)T | SHEET NO. 97 | TOTAL SHEETS 100 | RECORD DRAWING

LOCATION SANTA MARIA RIVER BRIDGE | SHEET 3 OF 6

TRACS NO. F0584 01C | ___ OF ___



PLAN VIEW (NTS)



SECTION A-A (NTS)

NOTES:

1. Install Sediment Wattle beyond the toe of new slope.
   Use 9" diameter Sediment Wattles, unless directed by the Engineer.
   If slope exceeds 100 feet in length (top to toe), use 20" Sediment Wattle at toe of slope.
   Long slopes will require additional protection between top and toe of slope.
2. Locate Sediment Wattle as indicated on plans or as directed by the Engineer.
3. Place Sediment Wattle a minimum of 6'-0" from edge of roadway without guardrail.
4. Remove surface materials i.e. soil, rock, branches, leaves, slash and chips from the existing grade as needed to place the Sediment Wattle. Refer to Sediment Wattle detail for installation.
5. The installation and maintenance of Guardrail End Treatment Slope Protection CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. For erosion/sediment control purposes, Guardrail End Treatment Slope Protection CMs/BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
6. Remove Sediment Wattle per the direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
7. Make field adjustments and corrections of Guardrail Slope Protection CM/BMP immediately if it is causing flooding, and/or affecting roadway safety.
8. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

DETAIL ES4

GUARDRAIL END TREATMENT SLOPE PROTECTION

REGISTERED PROFESSIONAL ENGINEER
18943
JOHN R. HUEKO
Date Signed 3-17-2026
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE SR 96
MILEPOST
STRUCTURE NO.

F.H.W.A. Arizona Division

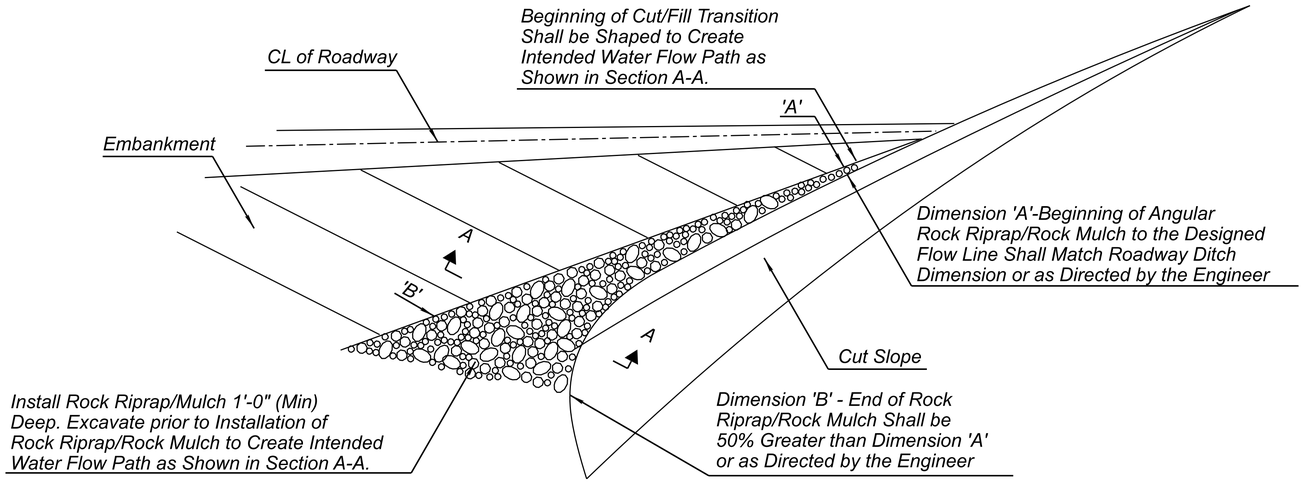
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ARIZ.	096 YV 010	096-A(200)T	98	100	

LOCATION SANTA MARIA RIVER BRIDGE

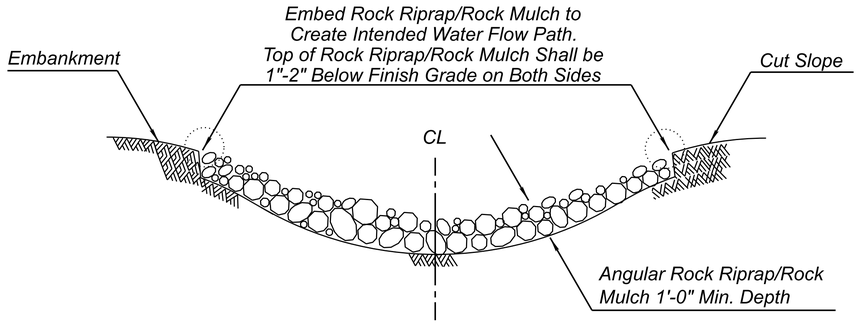
SHEET 4 OF 6

TRACS NO. F0584 01C

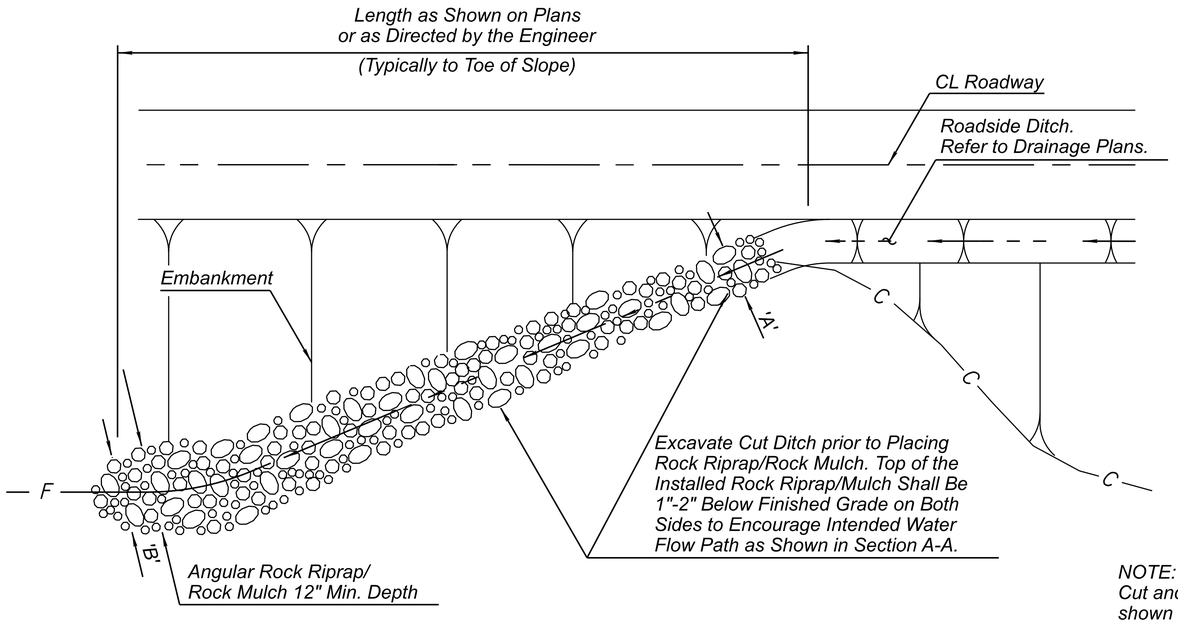
___ OF___



ROCK RIPRAP/ROCK MULCH FLOW PATH PERSPECTIVE (NTS)



ROCK RIPRAP/ROCK MULCH FLOW PATH EMBEDMENT SECTION A-A (NTS)



ROCK RIPRAP/ROCK MULCH FLOW PATH PLAN VIEW (NTS)

NOTES:

1. *Rock Riprap/Rock Mulch shall be angular shaped, crushed rock materials. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.*
2. *Rock Riprap/Rock Mulch within the traffic Clear Zone/Recovery Area shall conform to the requirements of Section 810-2.03 Sieve Size Gradation A and/or Gradation C, and Section 913 of the Specifications and project special provisions.*
3. *Install Rock Riprap/Rock Mulch to a minimum depth of 12" for Channel Lining and Cut/Fill Transition. Excavate ground surface to a depth that the top of Rock is 1"-2" below the grade of the ditch to encourage Intended Flow Path as shown in Section A-A.*
4. *Embed any rock into the finished grade so that any portion of the Rock is less than 4" above grade, within traffic recovery area/clear zone.*
5. *The installation and maintenance of Rock Protection CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Rock Protection CMs/BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.*
6. *Make field adjustments and corrections of Rock Protection CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.*
7. *Make field adjustments to ensure the top surface of Rock Riprap/Rock Mulch is graded lower than the surrounding finished grade to collect surface stormwater runoff and concentrated flow.*
8. *The Rock Protection CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintaining, as well as returning the area to an acceptable condition as approved by the Engineer.*
9. *Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.*

NOTE:
Cut and fill transition shall be placed as shown on plans or where the length of the roadside ditch is 50 feet or greater. Field adjust per direction of Engineer.

DETAIL ES5

ROCK PROTECTION FOR CUT & FILL TRANSITION AND CHANNEL LINING

REGISTERED PROFESSIONAL ENGINEER
18943
JOHN R. HUCKO
Date Signed 3-17-2026
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

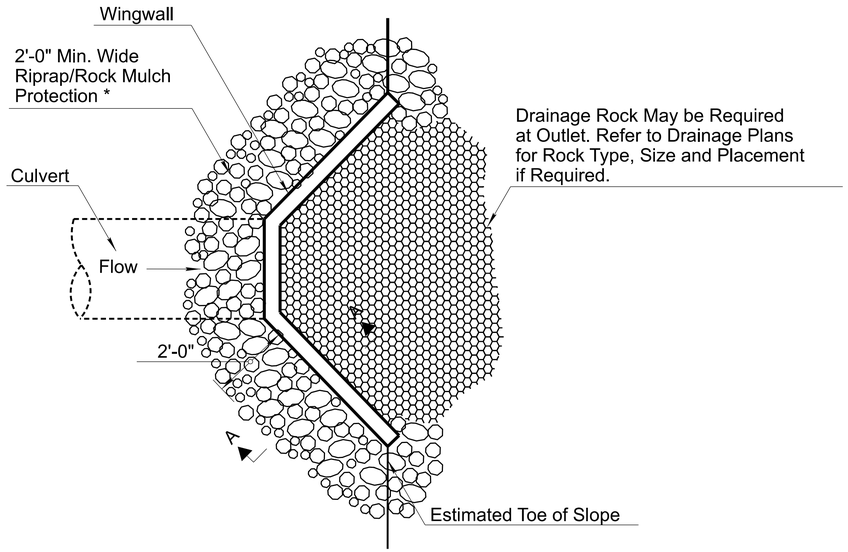
ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE SR 96
MILEPOST
STRUCTURE NO.

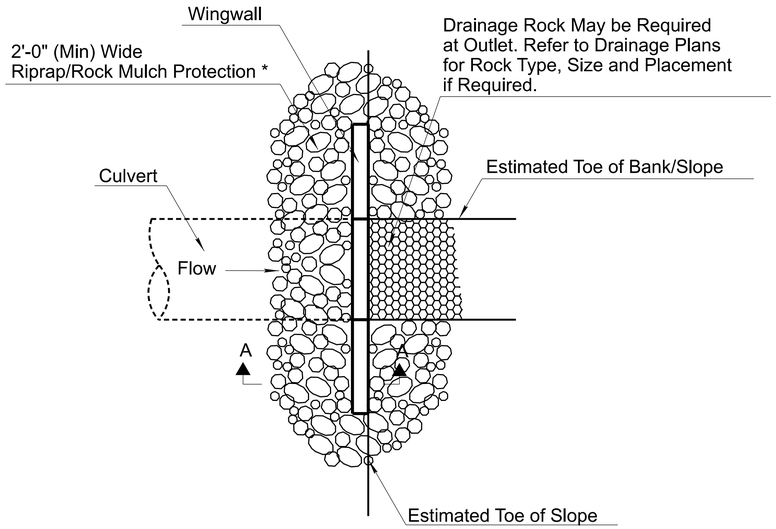
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	096 YV 010	096-A(200)T	99	100	

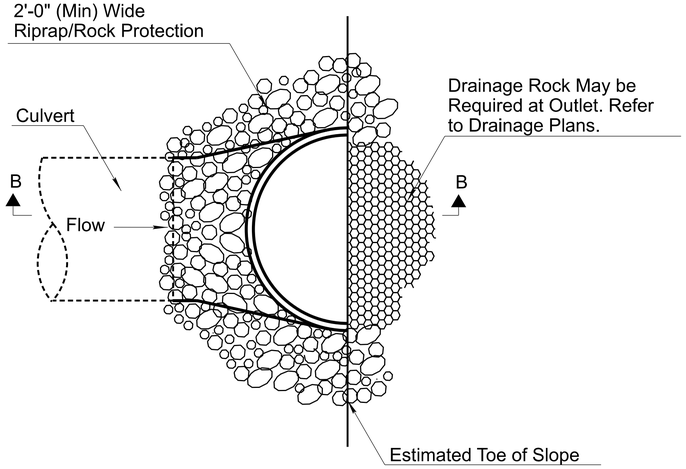
LOCATION SANTA MARIA RIVER BRIDGE
TRACS NO. F0584 01C
SHEET 5 OF 6
___ OF___



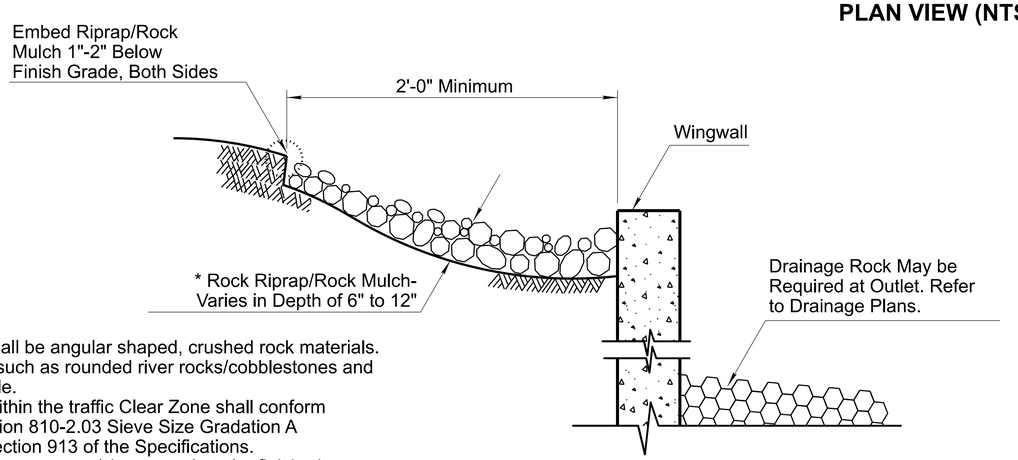
ANGLED HEADWALL / ENDWALL
PLAN VIEW (NTS)



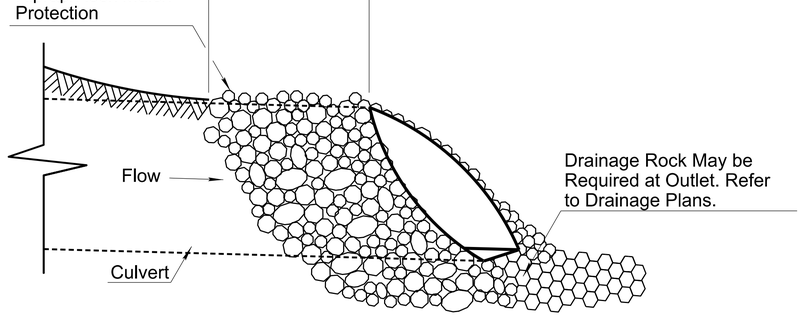
FLUSH HEADWALL / ENDWALL
PLAN VIEW (NTS)



FLARED END
PLAN VIEW (NTS)



WINGWALL
SECTION A-A (NTS)



FLARED END
SECTION B-B (NTS)

NOTES:

1. Rock Riprap/Rock Much shall be angular shaped, crushed rock materials. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.
2. Rock Riprap/Rock Mulch within the traffic Clear Zone shall conform to the requirements of Section 810-2.03 Sieve Size Gradation A and/or Gradation C, and Section 913 of the Specifications.
3. Embed rock within traffic recovery area/clear zone into the finished grade so that any portion of the rock above the grade will be less than 4" in height.
4. The installation and maintenance of Rock Protection CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Rock Protection CMs/BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
5. Make field adjustments and corrections of Rock Protection CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
6. The Rock Protection CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintaining as well as returning the area to an acceptable condition as approved by the Engineer.
7. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.

* Rock protection shall be installed behind applicable box culvert headwall/wingwall where called out in the plans and approved by the Engineer.

DETAIL ES6

ROCK PROTECTION FOR INLETS, OUTLETS AND HEADWALL TRANSITION

	NAME	DATE
DESIGN	TAO ZI FONG	03-26
DESIGN	Z. H. F.	03-26
DRAWN	TAO ZI FONG	03-26
DRAWN	Z. H. F.	03-26
CHECKED	JOHN R. HUCKO	03-26
TEAM LEADER	E. LEROY BRADY	03-26

18943 JOHN R. HUCKO — Date Signed 3-17-2026 — ARIZONA, U.S.A.

ARIZONA DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
ROADSIDE DEVELOPMENT SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE SR 96 | MILEPOST | STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	096 YV 010	096-A(200)T	100	100	

LOCATION SANTA MARIA RIVER BRIDGE — SHEET 6 OF 6
TRACS NO. F0584 01C — ___ OF ___