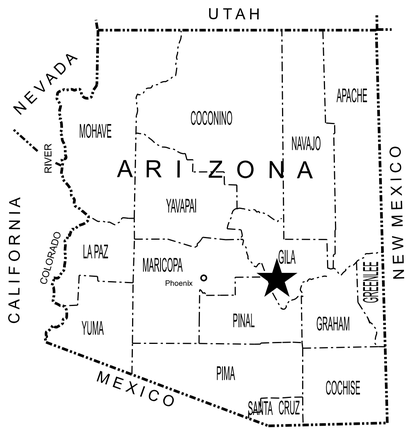
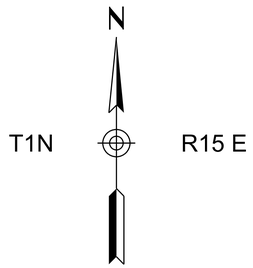


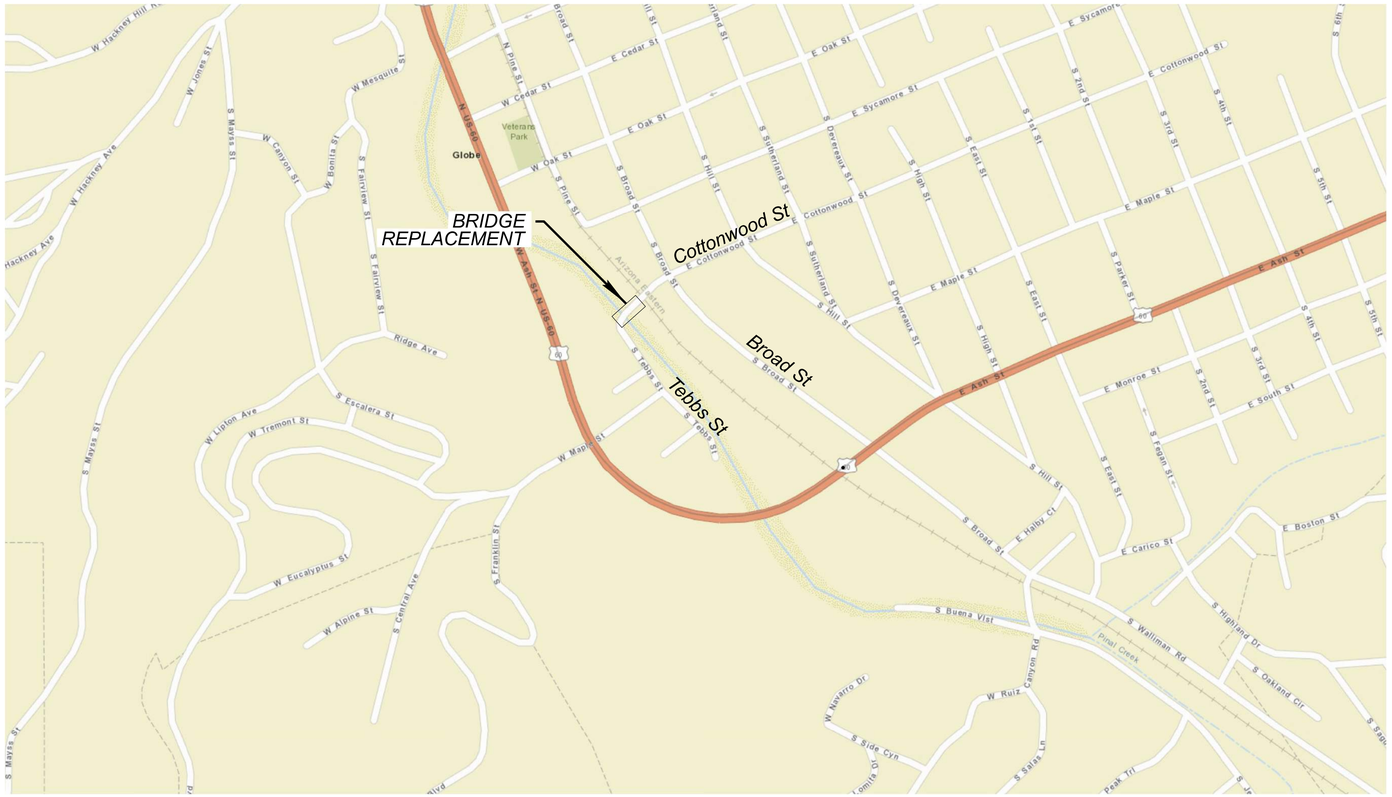


GILA COUNTY

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

CITY OF GLOBE
COTTONWOOD ST AT PINAL CREEK



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

PINAL CREEK BRIDGE
PROJECT NO. 0000 GI GLB T0281 01C
FEDERAL AID NO. GLB-0(209)T

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
GREGORY BYRES, P.E., STATE ENGINEER

REC. DWGS. DATA	REC. DWG. DATE	OF

SRIVERA 10/17/2022 4:51:59 PM c:\pw_workdir\jacobs-us-va-pw-02\dms31102\h0281fs01.dgn \ Model Name: Sheet

ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE AUGUST 2021

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
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
1/20	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	S RIVERA	05/23

PROJECT NO. 0000 GI GLB T0281 01C — 1A OF 39

RECORD DRAWING DATA | FEDERAL ID NO. GLB-0(209)T | REC. DWG. DATE | OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE JUNE 2022

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
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
8/20	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
6/14	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
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
3/22	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
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	A. MUDIGONDA	05/23

PROJECT NO. 0000 GI GLB T0281 01C

1B-1 OF 39

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	OF
	GLB-0(209)T		

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE AUGUST 2022

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
4/19	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM
4/19	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM POST AND BEAM DETAILS

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	S-12 SHT 1	TYPE A, B, AND DOWN ARROWS
6/14	S-12 SHT 2	TYPE C AND D ARROWS
6/14	S-12 SHT 3	C2 ARROW DETAIL
6/14	S-13	SIGN IDENTIFICATION DETAILS
6/14	S-14 SHT 1	ROTATING OPEN/CLOSED SIGN
6/14	S-14 SHT 2	ROTATING OPEN/CLOSED SIGN DETAILS
6/14	S-14 SHT 3	ROTATING OPEN/CLOSED SIGN MOUNTING DETAILS
6/14	S-15 SHT 1	FOLDING RECTANGULAR SIGN ASSEMBLY
6/14	S-15 SHT 2	FOLDING RECTANGULAR SIGN OPERATION
6/14	S-15 SHT 3	FOLDING DIAMOND SIGN ASSEMBLY
4/19	S-16 SHT 1	TEMPORARY WOOD POSTS
4/19	S-16 SHT 2	TEMPORARY WOOD POSTS SELECTION CHART
6/14	S-17	END OF ROAD BARRICADE
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	A. MUDIGONDA	05/23

PROJECT NO. 0000 GI GLB T0281 01C

1B-2 OF 39

RECORD DRAWING DATA	FEDERAL ID NO.	REC. DWG. DATE	OF
	GLB-0(209)T		

ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE MARCH 2023

DATE	STANDARD	SUBJECT TITLE
RAILINGS		
02/23	SD 1.10 (1 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/21	SD 1.10 (2 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
02/23	SD 1.11 (1 OF 1)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/21	SD 1.11 (2 OF 2)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
01/20	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		
12/07	SD 2.01	APPROACH SLAB DETAILS
12/07	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
12/07	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
09/09	SD 2.04	SLOPE PAVING DETAILS
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)
02/23	SD 6.20 (1 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL NOTES & DIMENSIONS
02/23	SD 6.20 (2 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 1
02/23	SD 6.20 (3 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - END SECTION & CONNECTION DETAILS
02/23	SD 6.20 (4 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 2
02/23	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		
12/21	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		
11/22	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
11/22	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
11/22	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
03/22	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
04/19	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
04/19	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
04/19	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
11/22	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
03/22	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
04/19	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
04/19	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
04/19	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
04/19	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
04/19	SD 9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.53 (1 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.53 (2 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (3 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (4 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
04/19	SD 9.53 (5 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS
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	S. RIVERA	05/23

PROJECT NO. 0000 GI GLB T0281 01C — 1D OF 39

RECORD DRAWING DATA | FEDERAL ID NO. GLB-0(209)T | REC. DWG. DATE | OF

SRIVERA 9/27/2022 7:55:01 AM c:\pw_workdir\jacobs-us-va-pw-02\dms31102\1D.dgn \ Model Name: Sheet

MIDPOINT OF PROJECT

East Zone
State Plane Coordinates
X=510,697
Y=871,370

DESIGN DATA

2022 AADT = 800
2045 AADT = 1200

Min Design Speed = 30 MPH

REFERENCES

Bridge Inspection Reports
Years 1981 to 2020

LENGTH OF PROJECT

Sta 9+98.25 to 12+40.00 = 242'
Gross and Net Length = 242' = 0.05 Miles

GENERAL NOTES

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

The project roadway railroad stop bar marker 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.

Pavement lift thickness is nominal.

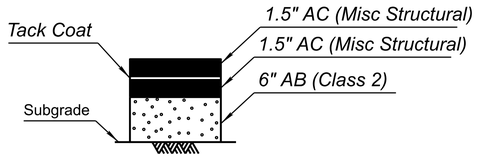
Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section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

The average project elevation is 3513.00.

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

User delay cost is nominal.

INDEX OF SHEETS



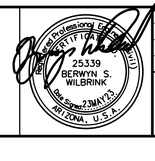
Total Thickness = 9"

SECTION NO. 1
Cottonwood Street

EARTHWORK QUANTITIES

Drainage Excavation	*1,288 CY*
Shrink	*-26 CY*
Drainage Embankment	*-262 CY [1]*
Waste	*1,000 CY*

[1] Embankment material constructed on the finished bridge sub/scour floor, see DWG No. S-1.03.
[2] Shrink is applied to the Drainage Embankment only.
[3] Drainage Excavation includes excavation for riprap.
[4] Quantities shown are based on 2021 surveys. Earthwork quantities are subject to change due to potential storm events.



	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

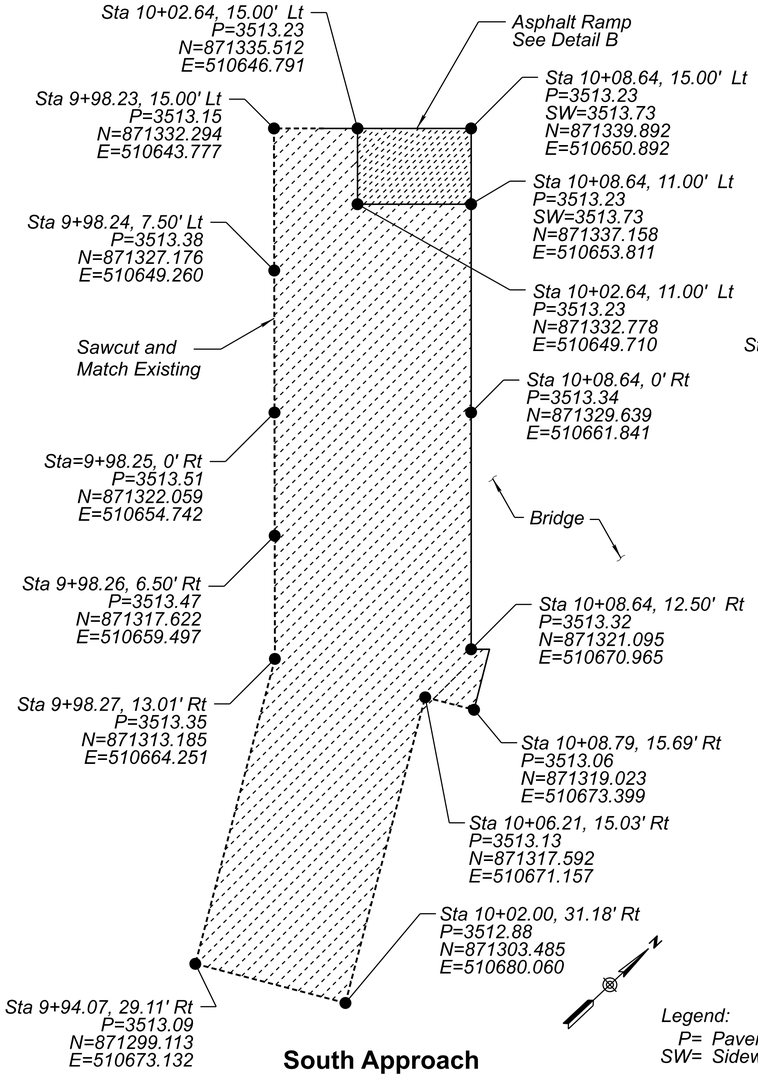
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

DESIGN DATA SHEET
INDEX OF SHEETS

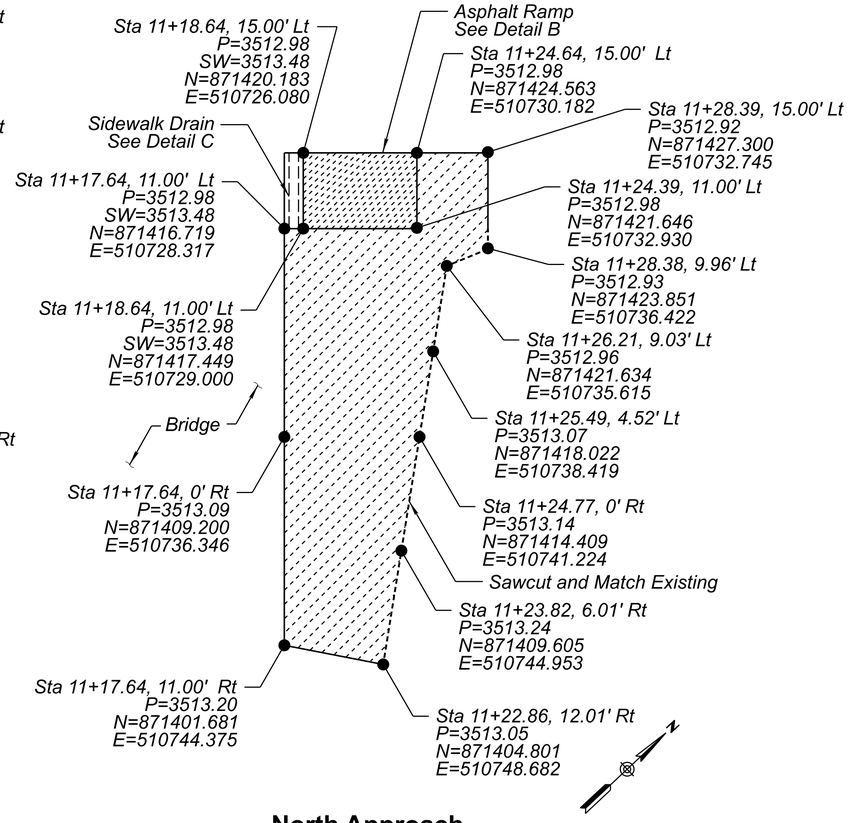
ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	2	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. G-01.01
TRACS NO. T0281 01C
___ OF ___



South Approach

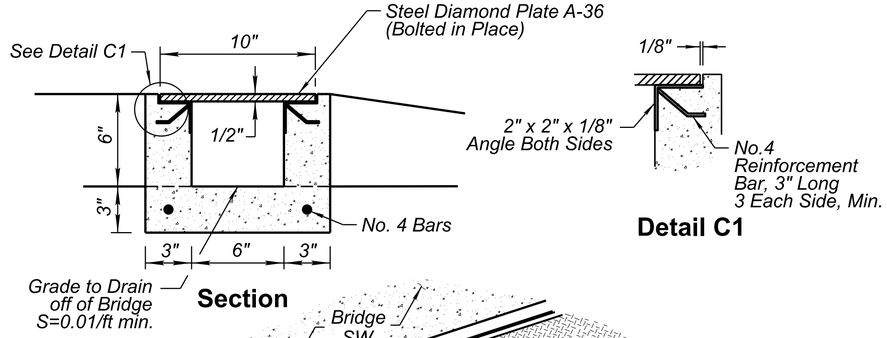


North Approach

Legend:
P= Pavement Elevation
SW= Sidewalk Elevation

DETAIL A

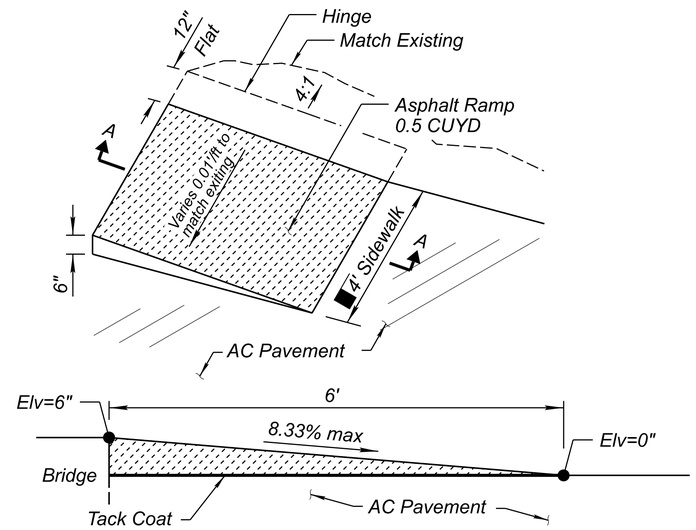
Paving Limits



Note:
Concrete shall be Class B. See Special Provision item number 5030211 for additional details.

DETAIL C

Trench Drain



Section A-A

DETAIL B

Asphalt Ramp

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

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

ROADWAY DETAILS

ROUTE	GLOBE
MILEPOST	N/A
STRUCTURE NO.	11696

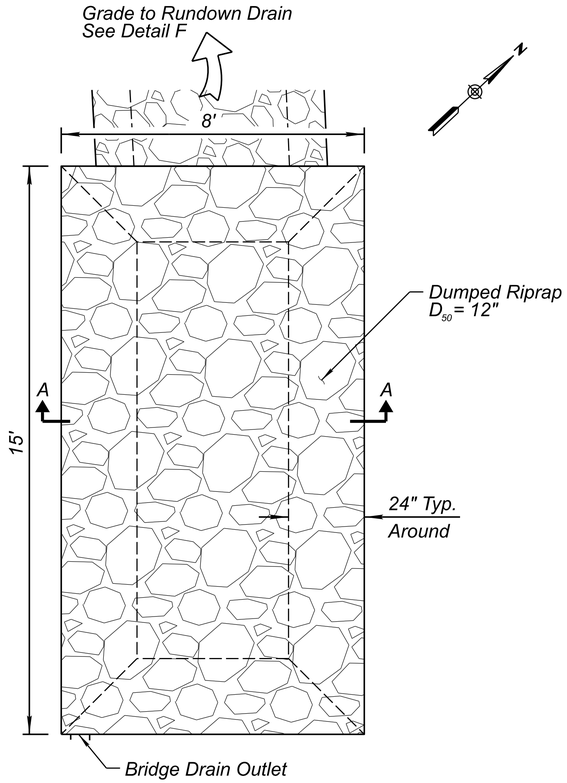
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	3	39	

LOCATION PINAL CREEK BRIDGE

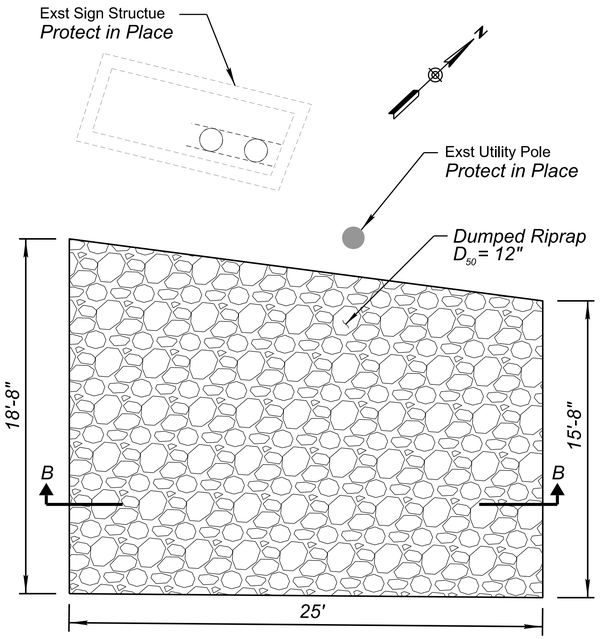
DWG NO. C-01.01

TRACS NO. T0281 01C

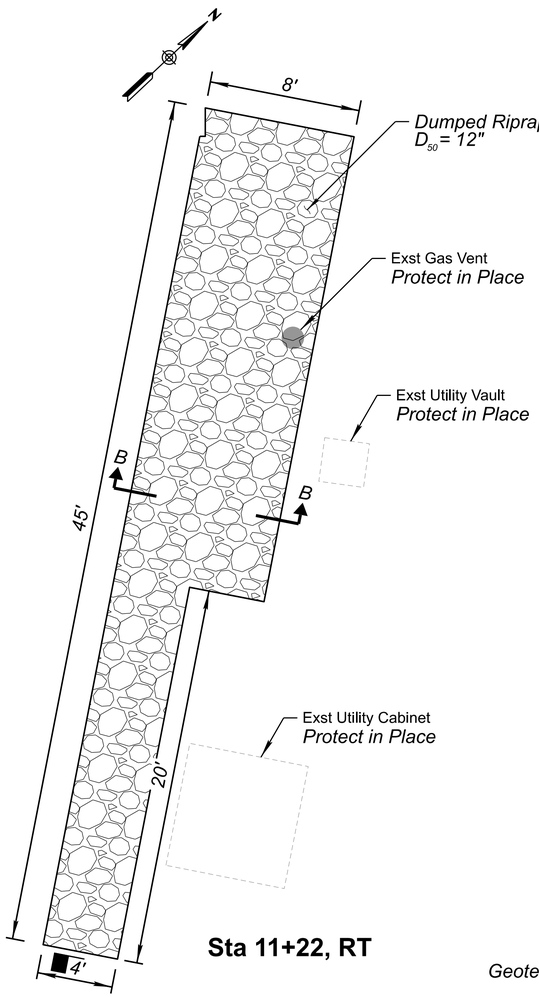
___ OF ___



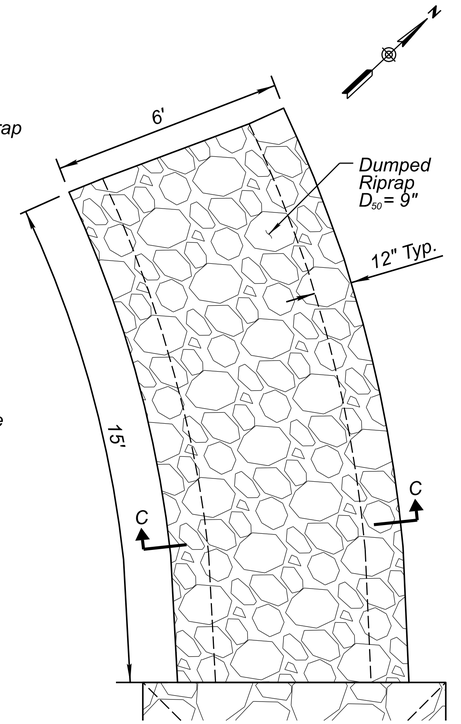
Sta 11+22, LT



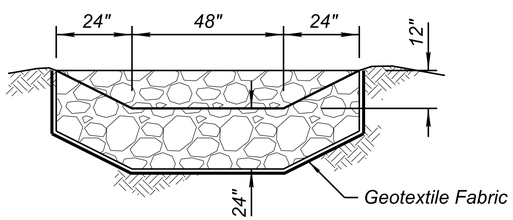
Sta 10+23, LT



Sta 11+22, RT



Rundown

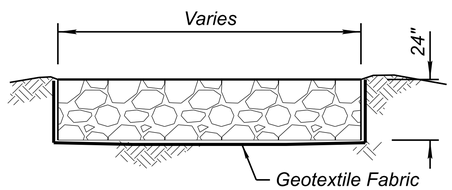


Section A-A

Note:
See Grading Plan C-04.03 for Layout.
See Special Provision 913.

DETAIL D

Sediment Trap

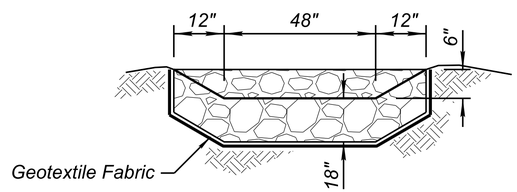


Section B-B

Note:
See Grading Plan C-04.03 for Layout.
See Special Provision 913.

DETAIL E

Riprap Pads



Section C-C

Note:
See Grading Plan C-04.03 for Layout.
See Special Provision 913.

DETAIL F

Riprap Rundown

Registered Professional Engineer (Civil)
CERTIFICATE NO.
25339
BERWYN S. WILBRINK
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188, WWW.JACOBS.COM

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

DRAINAGE DETAILS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
GLOBE	ARIZ.	0000 GI GLB	GLB-0(209)T	4	39	

F.H.W.A. Arizona Division

MILEPOST N/A

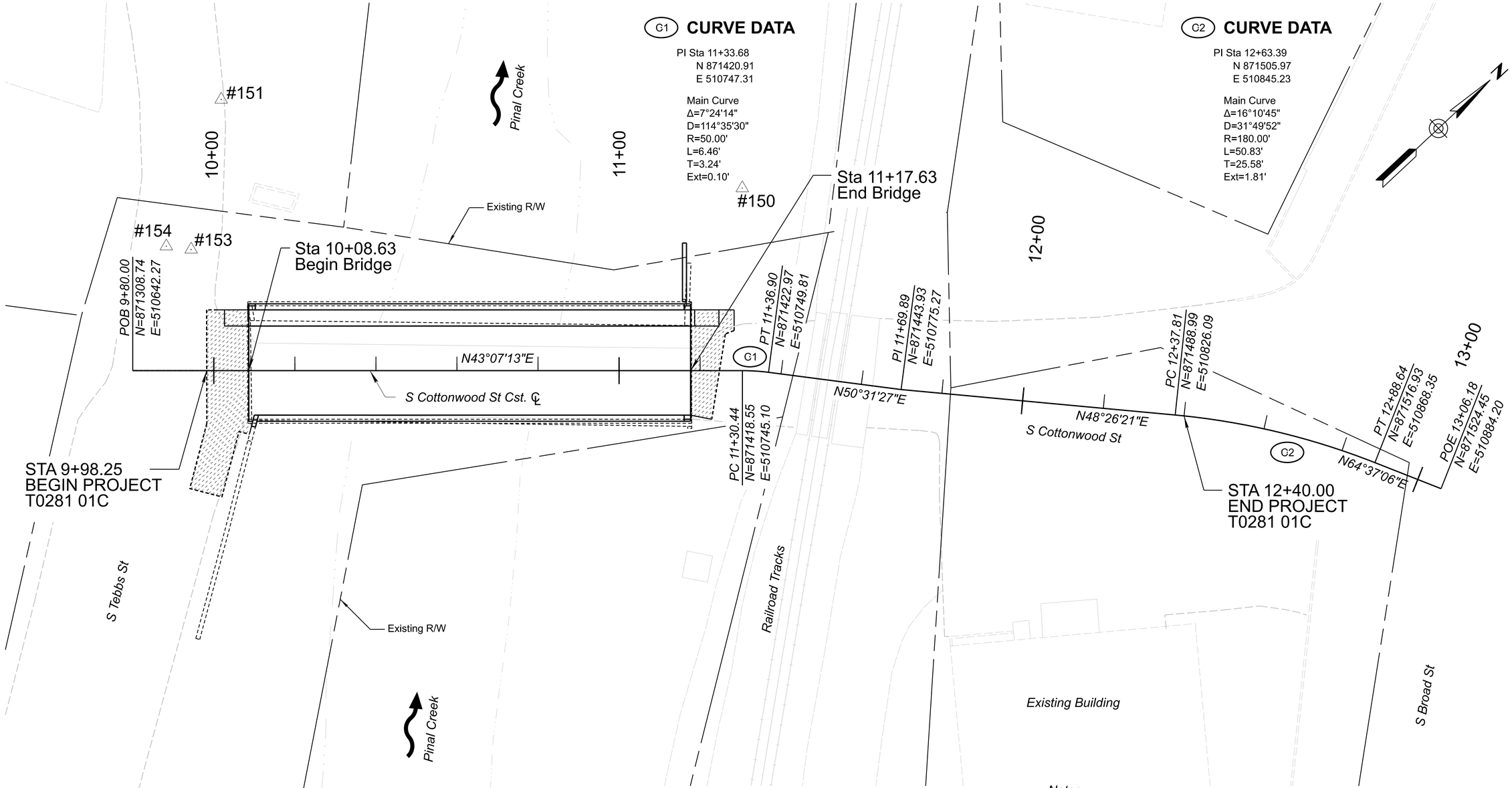
STRUCTURE NO. 11696

LOCATION PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. C-01.02

___ OF ___



Local Control	Northing	Easting	Elevation	Description
150	871449.308	510712.182	3511.43	FD BWC Illegible
151	871370.410	510608.344	3511.29	FD MAG Nail
152	871256.636	510744.064	3508.40	FD BCF
153	871339.682	510630.295	3512.70	FD MAG Nail W/Wash 49864
154	871335.753	510625.525	3512.57	FD MAG Nail W/Wash 49864

Notes:
Survey is based on client provided control.
Horizontal Datum is NAD 83 Arizona State Plane-East Zone, international feet.
Coordinates are Grid coordinates Benchmark is NGS Control point designated as HAMMOND, PID DK7988, from the intersection of U.S. 60 and S.R. 188 in Claypool, Arizona, go west for 0.7 mile to Old Oak Road turn south for 0.4 mile to Hammond Street, turn east for 0.1 mile. Monument is a stainless steel rod in hand hole on the north side of the road having an elevation of 3431.73', NAVD 88 datum.

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

CERTIFICATE NO. 25339 BERWYN S. WILBRINK 2 MAY 23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

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

GEOMETRY LAYOUT

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

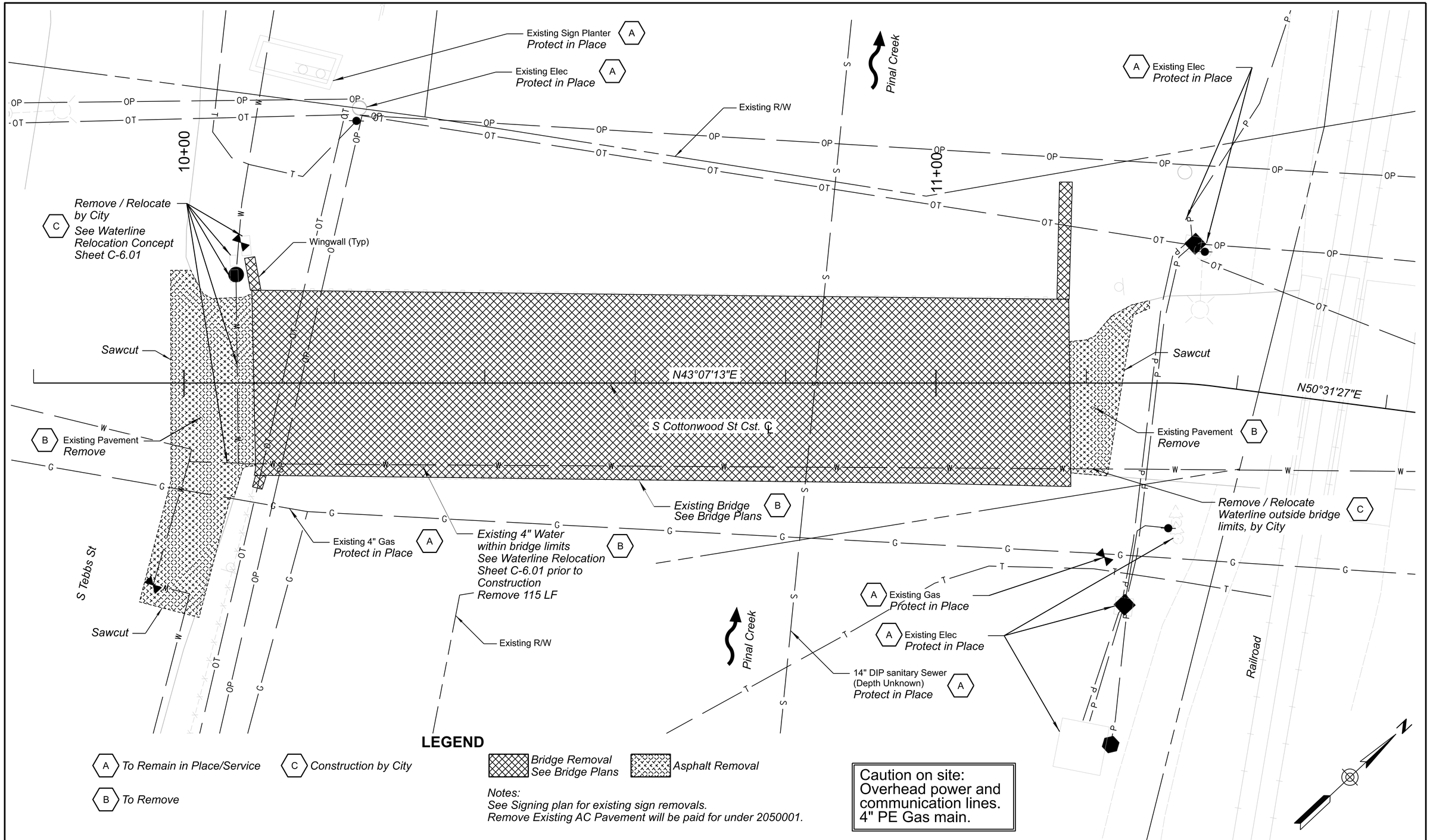
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	5	39	

LOCATION PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. C-02.01

___ OF ___



LEGEND

- A — To Remain in Place/Service
- B — To Remove
- C — Construction by City
- Bridge Removal — See Bridge Plans
- Asphalt Removal

Notes:
See Signing plan for existing sign removals.
Remove Existing AC Pavement will be paid for under 2050001.

Caution on site:
Overhead power and communication lines.
4" PE Gas main.

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

Registered Professional Engineer — CERTIFICATE — 25339 — BERWYN S. WILBRINK — 2 MAY 23 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

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

REMOVAL PLAN

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	6	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. C-03.01
___ OF ___

208-03-182C
Gila County Miniature Golf

Existing Pole
Protect in Place

208-03-404
Arizona Eastern Railway Company

Pinal Creek

Sta 11+22, LT
Rundown
D_{50} = 9", 5 CY

Sta 11+22, LT
Riprap
Sediment Trap
D_{50} = 12", 10 CY

Railroad

Sta 10+23, LT
Riprap Pad
D_{50} = 12", 32 CY

Existing R/W

10+00

11+00

Water line Relocation
By Others (City)
See Waterline Concept
Sheet C-06.01

Pinal Creek Bridge
Sta 10+08.64 to
Sta 11+17.64
See Bridge Plans

Wingwall
See Bridge Plans

Existing Pole & Vault
Protect in Place

New AC Pavement
Pavement Sec No.1
23 SQYD

Asphalt Ramp, 1 EA
See Detail B

Sawcut

Asphalt Ramp, 1 EA
See Detail B

Sidewalk Drain, 1 EA
See Detail C

Sawcut

N43°07'13"E

N50°31'27"E

STA 9+98.25
BEGIN
PROJECT
T0281 01C

Wingwall
See Bridge Plans

Exiting 4" Water
City to Abandon
prior to Construction

S Cottonwood St Cst. ℄

14" DIP Sanitary Sewer Pipe
Pothole and Protect in Place

New AC Pavement
Pavement Sec No.1
49 SQYD

S Tebbs St

Active SWG Gas Line
Pothole and Protect in Place

Existing R/W

Existing Retaining Wall:
Fill Existing Void with
Mortar/grout and Finish
To Match Adjacent Wall
Surface. Included on
wall construction, See
Spec 601-3.03.
Void = Approx 2 SQFT
See S-1.07 for more
details.

Existing Gas Vent
Protect in Place

8-ft Clearance from Signal
Center to Edge of Travel Lane

Sta 11+22, RT
Riprap Pad
D_{50} = 12", 22 CY

Existing Vault
Protect in Place

Match Existing

Public Right-of-Way

208-03-392A
Arizona Eastern Railway Company

Pinal Creek

208-03-402
Arizona Eastern Railway Company

Notes:
Caution Overhead Power and Telecommunication Lines.
See Drainage Detail for Riprap Dimension and Details.
See Roadway Details for Pavement Limits and Details.
See Removal Plan for Removal Items.

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

CERTIFICATE NO. 25339 BERWYN S. WILBRINK Date Signed 2 MAY 23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.968.8188, WWW.JACOBS.COM

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

ROADWAY PLAN

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

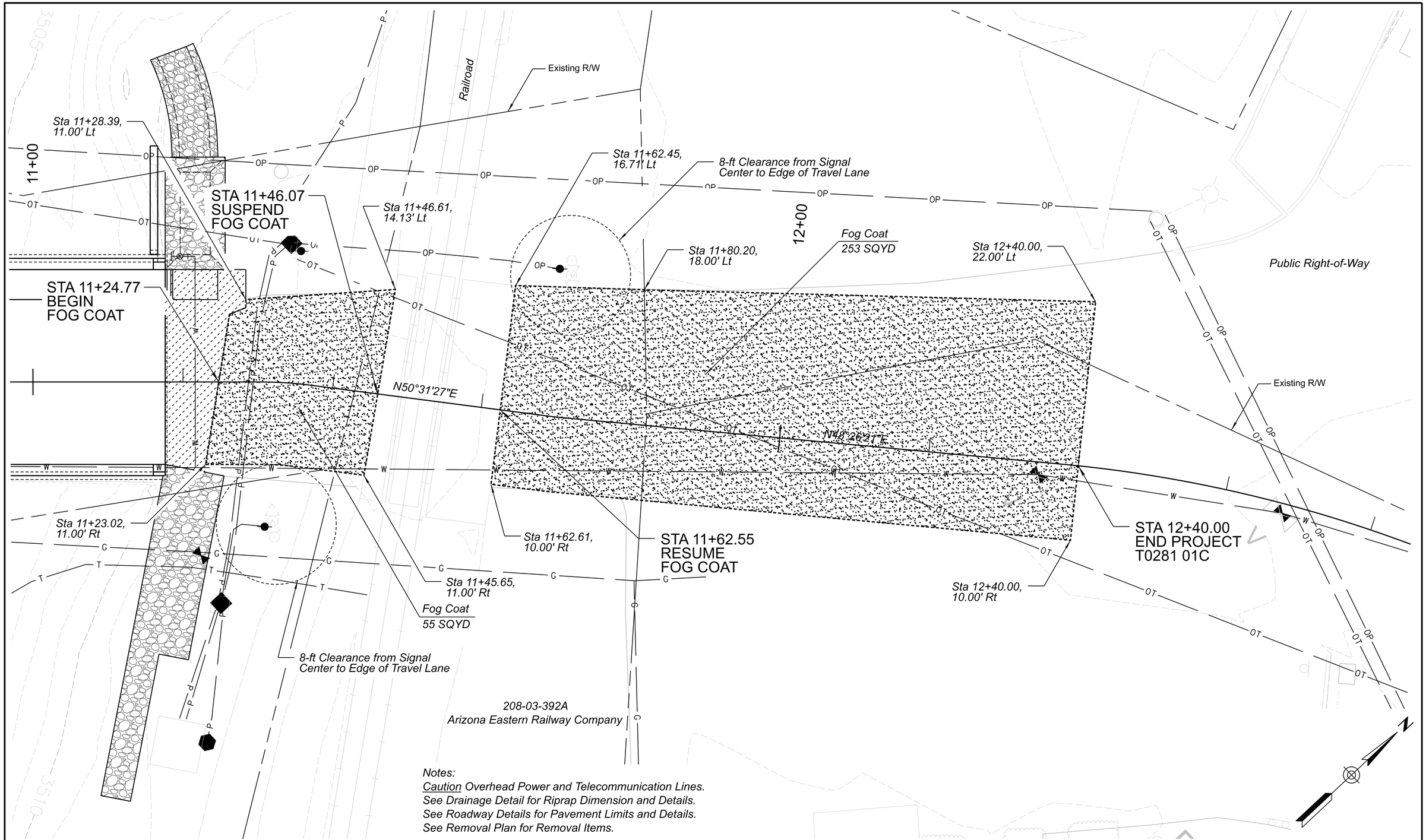
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	7	39	

LOCATION PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. C-04.01

___ OF ___



Notes:
Caution Overhead Power and Telecommunication Lines.
See Drainage Detail for Riprap Dimension and Details.
See Roadway Details for Pavement Limits and Details.
See Removal Plan for Removal Items.

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

REGISTERED PROFESSIONAL ENGINEER
25339
BERWYN S. WILBRINK
STATE OF ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188, WWW.JACOBS.COM

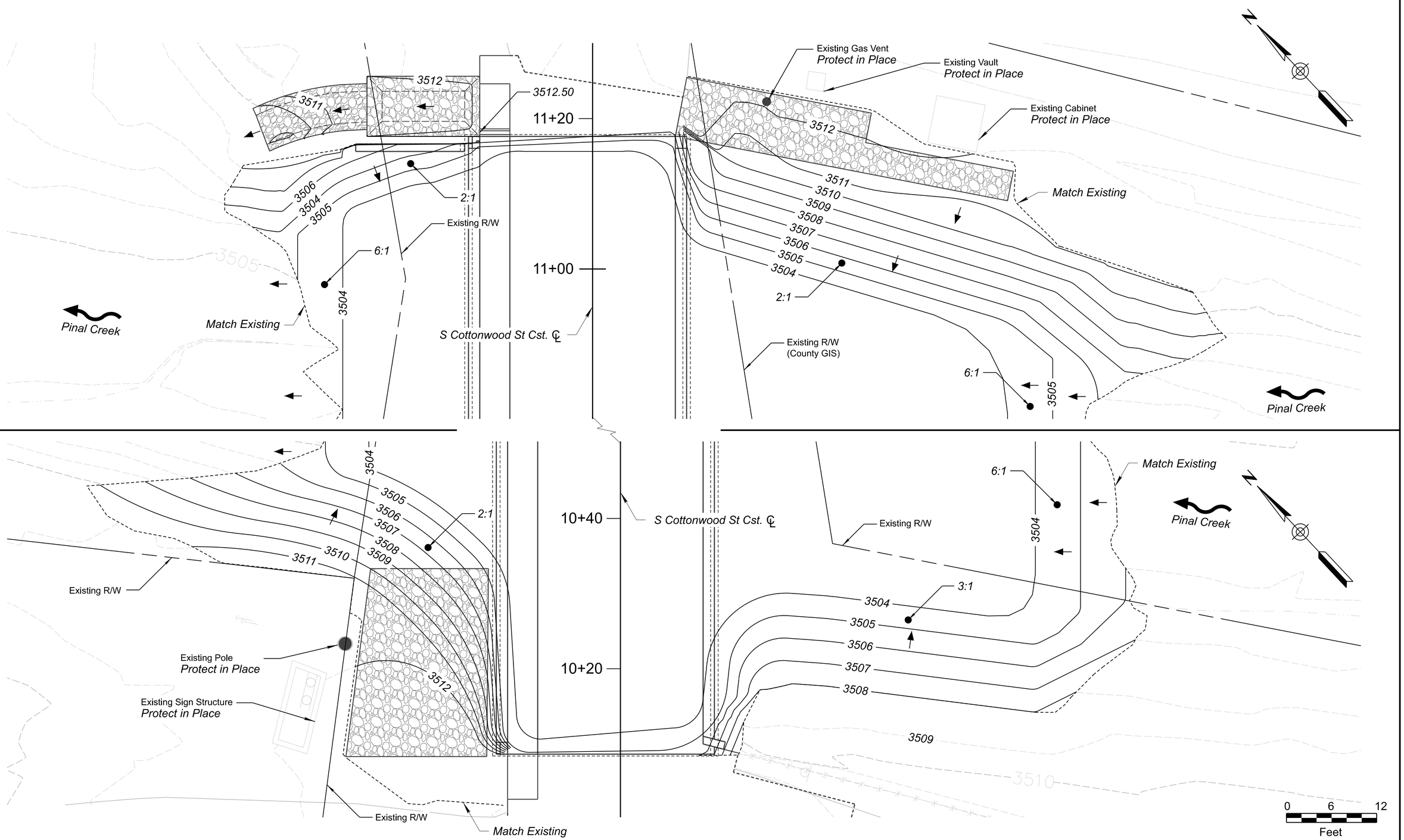
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

ROADWAY PLAN

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
GLOBE	ARIZ.	0000 GI GLB	GLB-0(209)T	8	39	
MILEPOST N/A	LOCATION PINAL CREEK BRIDGE					DWG NO. C-04.02
STRUCTURE NO. 11696	TRACS NO. T0281 01C					___ OF___

F.H.W.A. Arizona Division

SRIVERA 6/6/2022 9:20:14 AM c:\pw_workdir\jacobs-us-va-pw-02\dms31102\h0281pl04.dgn \ Model Name: Default



Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

REGISTERED PROFESSIONAL ENGINEER
25339
BERWYN S. WILBRINK
Date Signed 23 MAY 23
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

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

GRADING PLAN

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

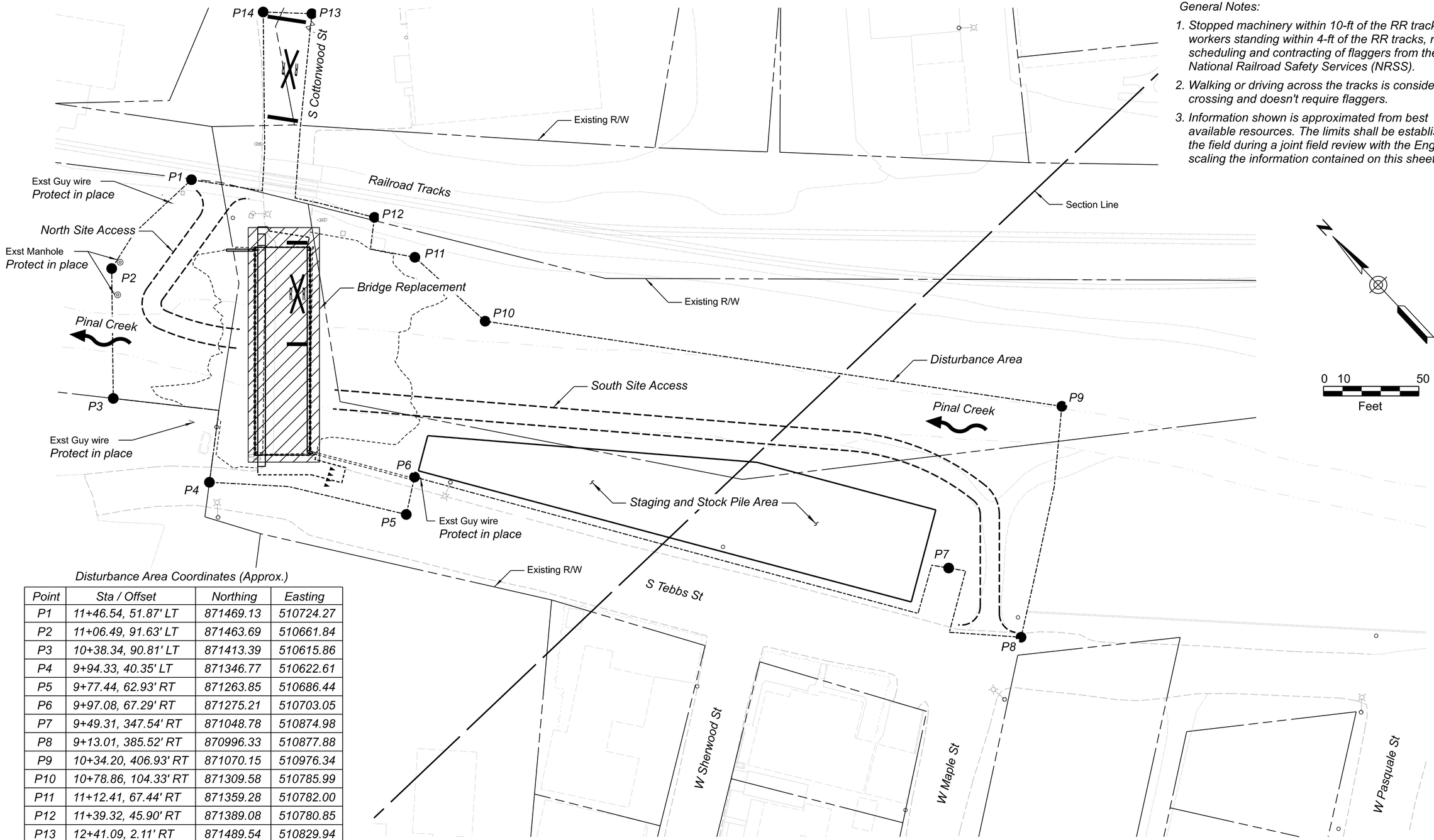
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	9	39	

LOCATION PINAL CREEK BRIDGE

DWG NO. C-04.03

TRACS NO. T0281 01C

___ OF ___



General Notes:

1. *Stopped machinery within 10-ft of the RR tracks, or workers standing within 4-ft of the RR tracks, require scheduling and contracting of flaggers from the National Railroad Safety Services (NRSS).*
2. *Walking or driving across the tracks is considered crossing and doesn't require flaggers.*
3. *Information shown is approximated from best available resources. The limits shall be established in the field during a joint field review with the Engineer, scaling the information contained on this sheet.*

Disturbance Area Coordinates (Approx.)

Point	Sta / Offset	Northing	Easting
P1	11+46.54, 51.87' LT	871469.13	510724.27
P2	11+06.49, 91.63' LT	871463.69	510661.84
P3	10+38.34, 90.81' LT	871413.39	510615.86
P4	9+94.33, 40.35' LT	871346.77	510622.61
P5	9+77.44, 62.93' RT	871263.85	510686.44
P6	9+97.08, 67.29' RT	871275.21	510703.05
P7	9+49.31, 347.54' RT	871048.78	510874.98
P8	9+13.01, 385.52' RT	870996.33	510877.88
P9	10+34.20, 406.93' RT	871070.15	510976.34
P10	10+78.86, 104.33' RT	871309.58	510785.99
P11	11+12.41, 67.44' RT	871359.28	510782.00
P12	11+39.32, 45.90' RT	871389.08	510780.85
P13	12+41.09, 2.11' RT	871489.54	510829.94
P14	12+39.37, 23.39' LT	871507.66	510811.89

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

Registered Professional Engineer (Civil) — 25339 — BERWYN S. WILBRINK — 2-MAY-23 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	BSW	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

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

CONSTRUCTION ACCESS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
GLOBE	ARIZ.	0000 GI GLB	GLB-0(209)T	10	39	
MILEPOST N/A						
STRUCTURE NO. 11696						

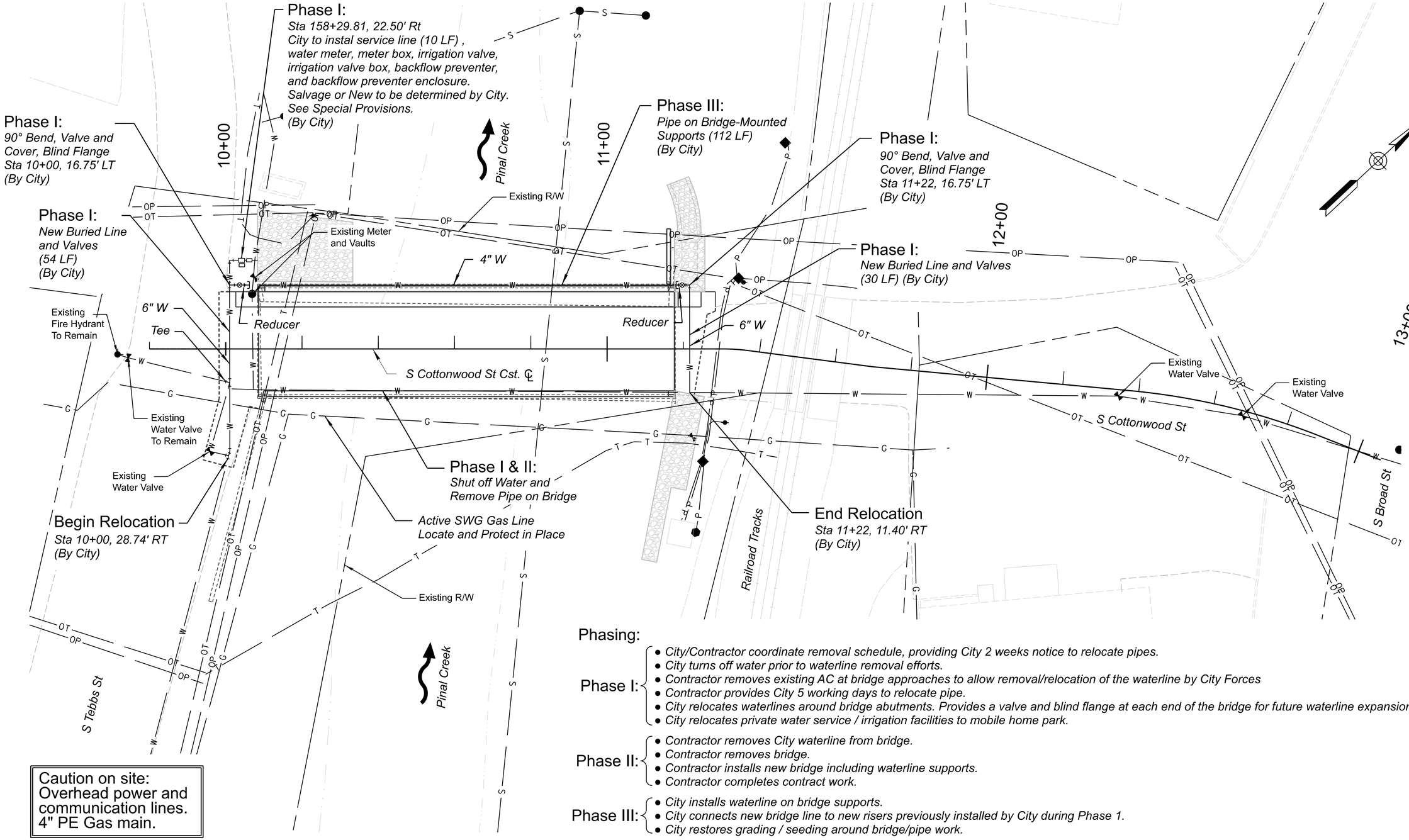
F.H.W.A. Arizona Division

LOCATION PINAL CREEK BRIDGE

DWG NO. C-05.01

TRACS NO. T0281 01C

___ OF ___



Phasing:

Phase I:
- *City/Contractor coordinate removal schedule, providing City 2 weeks notice to relocate pipes.*
- *City turns off water prior to waterline removal efforts.*
- *Contractor removes existing AC at bridge approaches to allow removal/relocation of the waterline by City Forces*
- *Contractor provides City 5 working days to relocate pipe.*
- *City relocates waterlines around bridge abutments. Provides a valve and blind flange at each end of the bridge for future waterline expansion.*
- *City relocates private water service / irrigation facilities to mobile home park.*

Phase II:
- *Contractor removes City waterline from bridge.*
- *Contractor removes bridge.*
- *Contractor installs new bridge including waterline supports.*
- *Contractor completes contract work.*

Phase III:
- *City installs waterline on bridge supports.*
- *City connects new bridge line to new risers previously installed by City during Phase 1.*
- *City restores grading / seeding around bridge/pipe work.*

Dimensions are Approximate.

Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

REGISTERED PROFESSIONAL ENGINEER 25339 BERWYN S. WILBRINK 5/19/22 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282. PH: 480.966.8188, WWW.JACOBS.COM

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

WATERLINE RELOCATION CONCEPT

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	11	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. C-06.01
TRACS NO. T0281 01C
___ OF ___

CONTROL MEASURE INDEX SHEET (CMIS)

TO BE COMPLETED FOR PROJECTS 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: T0281 01C

C. Project Name/Location (be consistent with the plan set cover sheet): PINAL CREEK BRIDGE, COTTONWOOD St.

City: GLOBE County: GILA

Beginning Latitude (NAD 83): 33° 23' 37"

Beginning Longitude (NAD 83): 110° 47' 13"

Ending Latitude (NAD 83): 33° 23' 38"

Ending Longitude (NAD 83): 110° 47' 12"

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 EXISTING BRIDGE MINIMAL ROADWAY WORK AND BOTH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

II. HYDROLOGIC INFORMATION

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

Percentage before Construction: 11%

Percentage after Construction: 13%

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)

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:

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	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8168. WWW.JACOBS.COM

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

SWPPP STANDARD SHEET
INDEX OF SHEETS

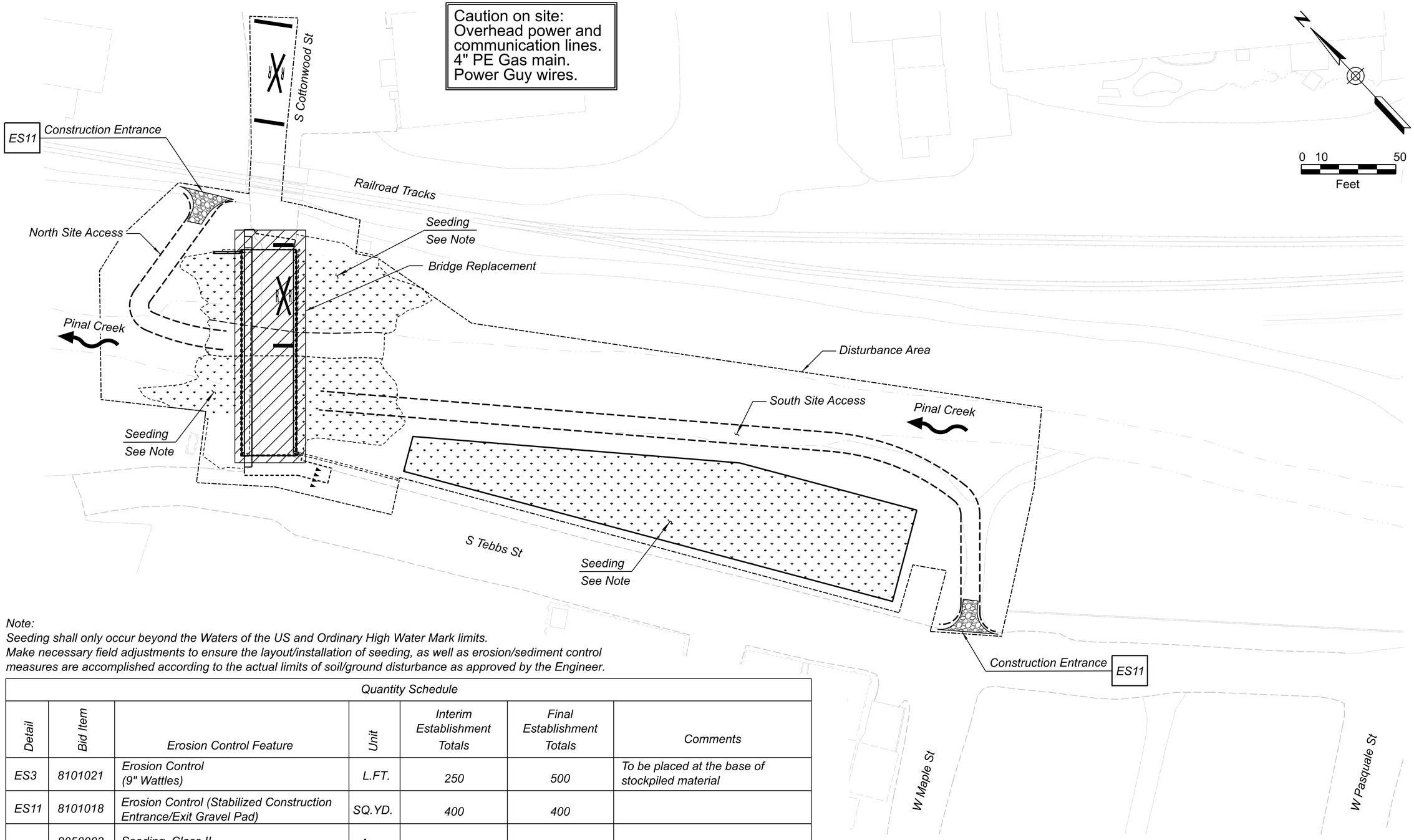
ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	12	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. C-07.01
___ OF ___

Caution on site:
Overhead power and communication lines.
4" PE Gas main.
Power Guy wires.



Note:
Seeding shall only occur beyond the Waters of the US and Ordinary High Water Mark limits.
Make necessary field adjustments to ensure the layout/installation of seeding, as well as erosion/sediment control measures are accomplished according to the actual limits of soil/ground disturbance as approved by the Engineer.

Quantity Schedule

Detail	Bid Item	Erosion Control Feature	Unit	Interim Establishment Totals	Final Establishment Totals	Comments
ES3	8101021	Erosion Control (9" Wattles)	L.FT.	250	500	To be placed at the base of stockpiled material
ES11	8101018	Erosion Control (Stabilized Construction Entrance/Exit Gravel Pad)	SQ.YD.	400	400	
-	8050003	Seeding, Class II	Acre	1.2	2	

Registered Professional Engineer (Civil) CERTIFICATE 25339 BERWYN S. WILBRINK ARIZONA, U.S.A.

	NAME	DATE
DESIGN	BSW	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

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

EROSION CONTROL PLAN

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
GLOBE	ARIZ.	0000 GI GLB	GLB-0(209)T	13	39	
MILEPOST N/A						
STRUCTURE NO. 11696						

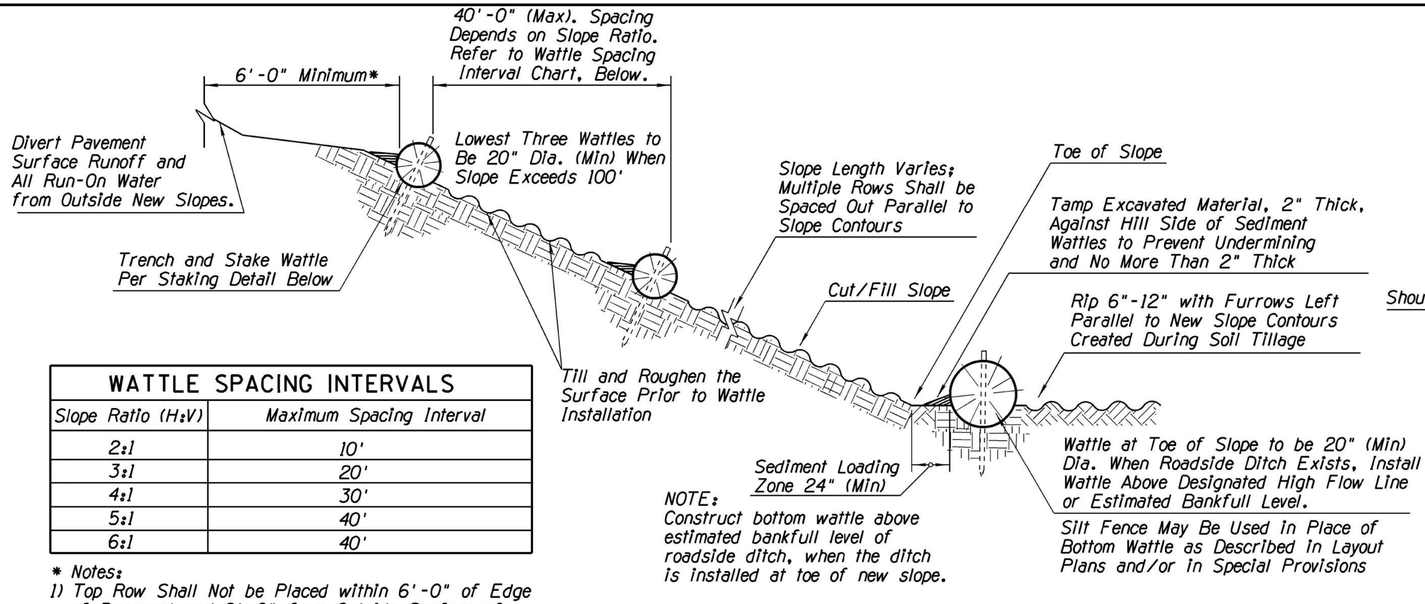
F.H.W.A. Arizona Division

LOCATION PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. C-07.02

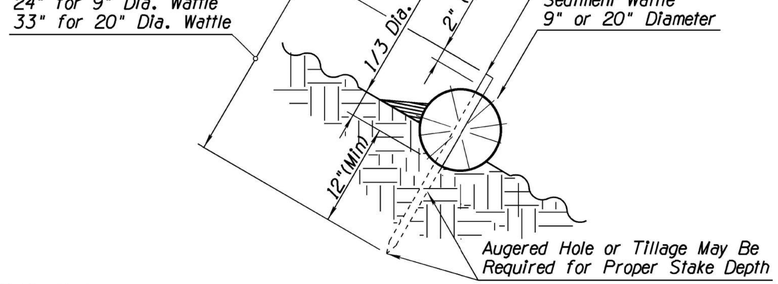
___ OF ___



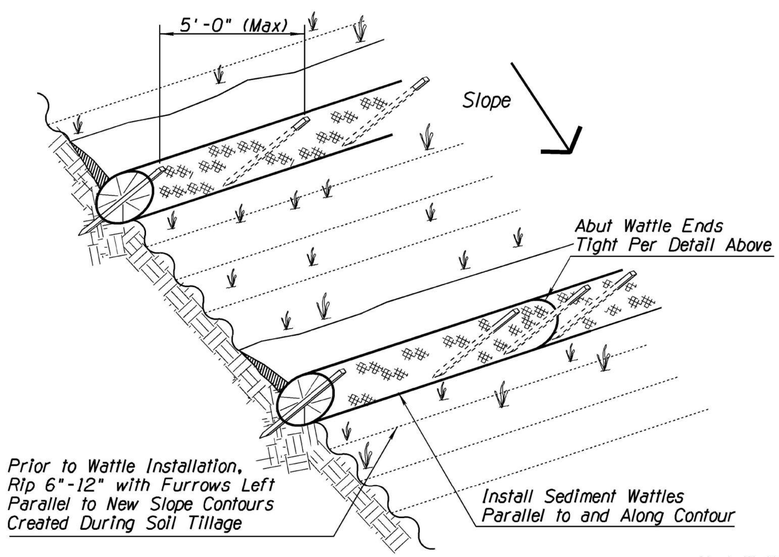
SECTION (NTS)

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'

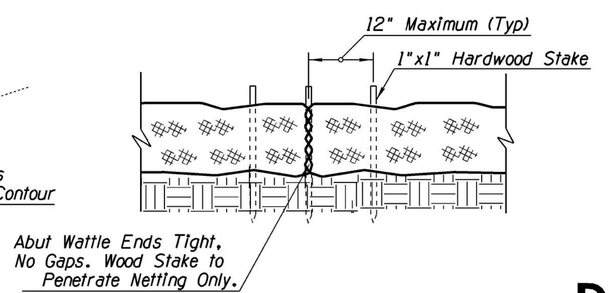
* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.



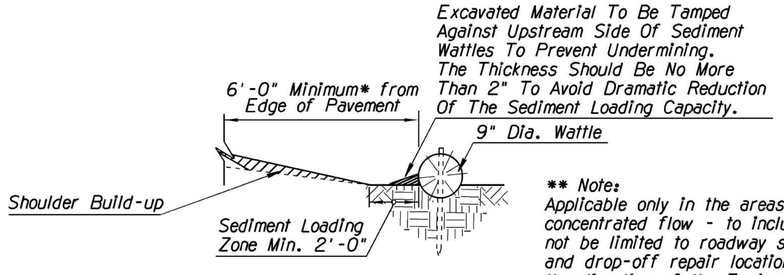
SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (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)

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 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.

DETAIL ES3
SEDIMENT WATTLE

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 25339 BERWYN S. WILBRINK 12 June 23 MAY 23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION
STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

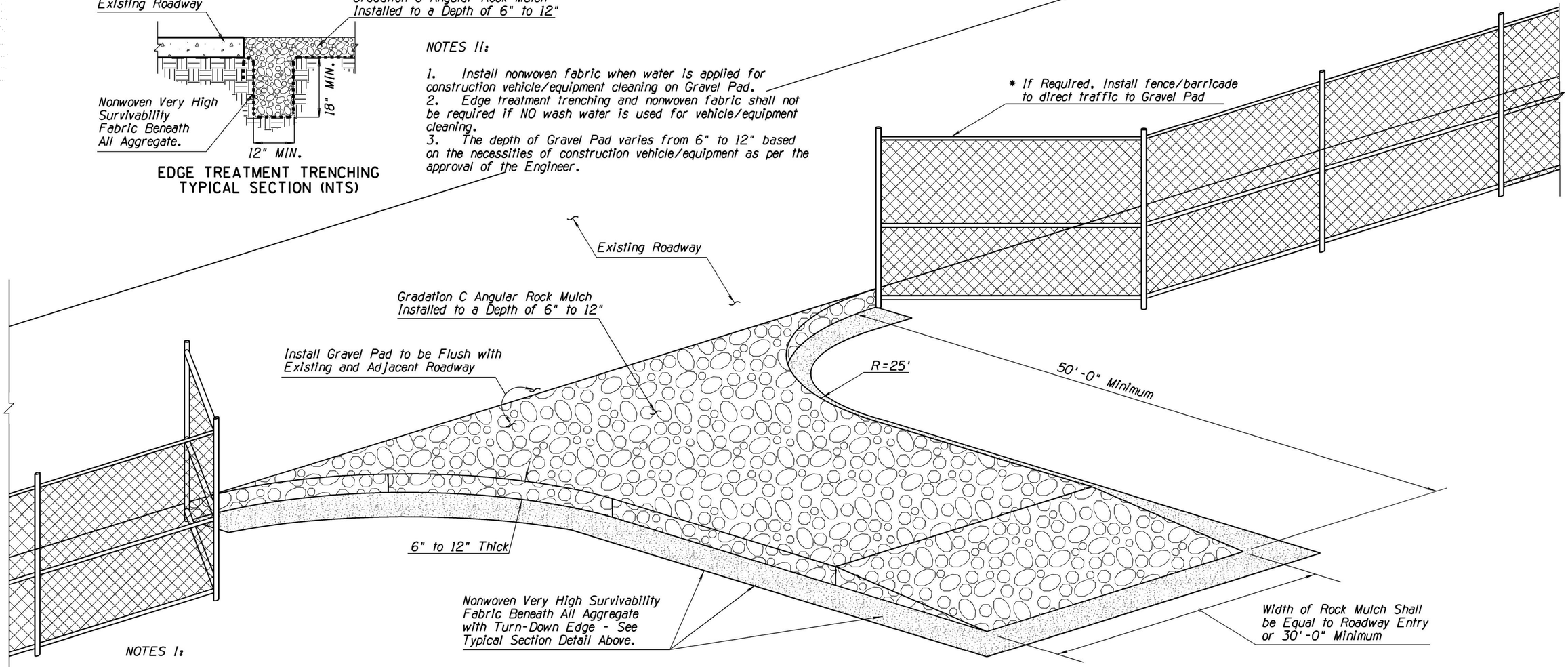
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	14	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. C-07.03
___ 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 CM/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 ES11

STABILIZED CONSTRUCTION ENTRANCE/EXIT GRAVEL PAD

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	BSW	05/23

25339 BERWYN S. WILBRINK Date Signed 23MAY23 ARIZONA, U.S.A.

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

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

STORMWATER QUALITY PROTECTION &
EROSION/SEDIMENT CONTROL DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	15	39	

LOCATION PINAL CREEK BRIDGE — DWG NO. C-07.04

TRACS NO. T0281 01C — ___ OF ___

PAVEMENT MARKING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITIES
7040073	PAVEMENT LEGEND (EXTRUDED THERMOPLASTIC) (ALKYD)(0.090")	EACH	4
7040074	PAVEMENT SYMBOL (EXTRUDED THERMOPLASTIC)(ALKYD)(0.090")	EACH	2

PAVEMENT MARKING NOTES:

1. *All yield and railroad markings shall be 90 mil (0.090 inch) thick, extruded thermoplastic reflectorized pavement markings.*
2. *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.*
3. *The pavement marking drawings are schematic only and not to scale. The contractor shall follow all dimensions and details when installing pavement markings.*

SIGN SUMMARY

Sign Number	MOAS Sign Code	Work: New	Work: Existing: Replace Panel	Work: Existing: Relocate Panel	Work: Existing: Modify Legend	Work: Existing: Remove	Work: Existing: To Remain	Offset (ft)	Mounting Height (ft)	Background Color	Panel: Legend	Panel: Width (in)	Panel: Height (in)	Panel: Area (sq. ft)	Panel: Type	Panel: Bid Item Number	Ground Mounted: Foundations	Ground Mounted: Post: Type	Ground Mounted: Post: Total length (ft)	Ground Mounted: New Slipbases
10+05	R12-1 (Mod.)					X					WEIGHT LIMIT 20 TONS					2020053				
10+06	R1-2						X				YIELD									
10+09	OM3-L	X							4	YL	Object Marker (Left)	12	36	3.0	RWM	7030080				
10+09	OM3-R	X							4	YL	Object Marker (Right)	12	36	3.0	RWM	7030080				
10+20	OM3-L	X							4	YL	Object Marker (Left)	12	36	3.0	RWM	7030080				
10+20	OM3-R	X							4	YL	Object Marker (Right)	12	36	3.0	RWM	7030080				
10+25	R12-1 (Mod.)					X					WEIGHT LIMIT 20 TONS					2020053				

SIGNING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITIES
2020053	REMOVE (SIGNS, FOUNDATIONS, AND POSTS)	EACH	2
7030080	OBJECT MARKER (M-23)(TYPE 3)	EACH	4

Registered Professional Engineer (Civil) CERTIFICATE NO. 61772 ANIL MUDIGONDA Date Signed 23/MAY/22 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	APM	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

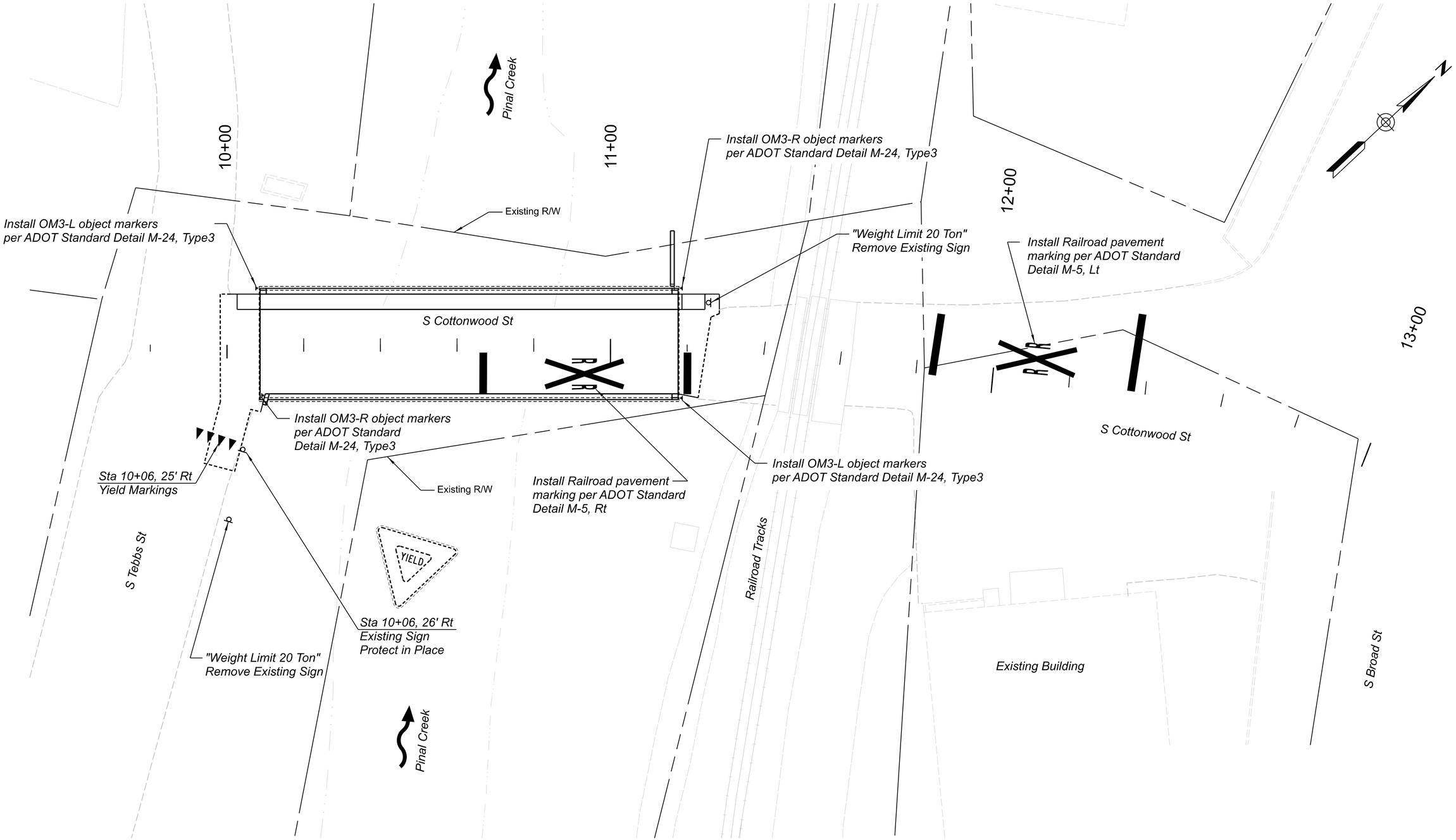
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

PAVEMENT MARKING AND SIGNING
GENERAL NOTES & QUANTITIES

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	16	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. T-01.01
___ OF___



Right-of-Way Note:
Right-of-Way is approximated from Gila County GIS website and may not be located as shown.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
61772
ANIL
MUDIGONDA
ARIZONA, U.S.A.
23/MAY/23

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	APM	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

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

PAVEMENT MARKING
AND SIGNING PLAN

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	17	39	

LOCATION PINAL CREEK BRIDGE — DWG NO. T-02.01

TRACS NO. T0281 01C — ___ OF ___

TRAFFIC CONTROL NOTES:

SIGNS

1. *All existing signs in conflict with the construction signs shall be covered in place, as directed by the Engineer, at no additional cost to the Department. The signs shall be uncovered when directed by the Engineer, at no additional cost to the Department.*

2. *The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of ADOT Standard Specifications and in Section 380 of the ADOT Traffic Engineering Policies, Guidelines and Procedures.*

3. *All signs shown on the plans shall be mounted on spring stands, at the height recommended by the spring stand manufacturer.*

4. *Flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign.*

5. *Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.*

6. *Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.*

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

8. *Where no closure is necessary but where there is construction alongside a roadway under construction, the contractor shall place a 48 x 48 inch "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" sign as directed by the Engineer to alert the public to the construction activities.*

DEVICES

9. *When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway.*

PLANS

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

11. *The traffic control plans represent a suggested method for traffic control during construction. The Contractor may prepare another traffic control plan in accordance with Section 701 of the Standard Specifications. All traffic control plans are subject to the approval of the Engineer before beginning construction.*

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

REFERENCES

13. *The contractor shall reference the MUTCD - Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) 2009 edition and the ADOT supplement to the 2009 MUTCD. The contractor shall also reference the TCDG - ADOT Traffic Control Design Guidelines 2019.*

Registered Professional Engineer (Civil)
CERTIFICATE NO.
61772
ANIL MUDIGONDA
Date Signed 23MAY'22
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	APM	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

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

TRAFFIC CONTROL GENERAL NOTES

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	18	39	

LOCATION PINAL CREEK BRIDGE

DWG NO. T-03.01

TRACS NO. T0281 01C

___ OF___

Activity Number	Activity Description	Traffic Control	Traffic Control Special Requirements And Comments
1	Install advanced warning signs.	Maintain all lanes of traffic to adjacent businesses and residences. Provide advanced warnings signs per Details shown on T-03.03.	Cottonwood Street bridge over Pinal Creek shall be closed for the duration of construction. ALL temporary signs are to be placed on spring stands for the duration of the project.

APPROXIMATE TRAFFIC CONTROL QUANTITIES

Bid Item Number	Item Description	Unit *	Activity No.1	Total
7016031	Barricade (Type III, High Level Flag Trees)	Each-Day	738	738
7016033	Portable Sign Stand (Spring Type)	Each-Day	1,353	1,353
7016035	Warning Lights (type A)	Each-Day	861	861
7016051	Temporary Sign (Less than 10 S.F.)	Each-Day	984	984
7016052	Temporary Sign (10 S.F. or more)	Each-Day	738	738

* Traffic Control duration is 123 calendar days.

Note:

The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with the approval of the engineer. Any modifications to these plans shall require review and approval by the engineer.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
61772
ANIL MUDIGONDA
Date Signed 23MAY'23
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	APM	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

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

MAINTENANCE OF TRAFFIC QUANTITIES

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

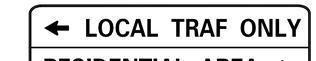
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	19	39	

LOCATION PINAL CREEK BRIDGE — DWG NO. T-03.02

TRACS NO. T0281 01C — ___ OF ___

1 W20-1bAZ(Mod)
36"x36"
Black text on orange panel

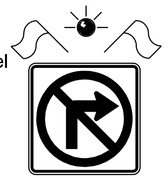
2 R11-2 (Mod)
48"x30"
Black text on white panel
Supplemental Sign
48"x8"
Black text on orange panel



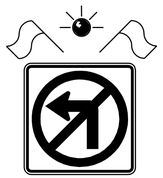
3 Install on top half of existing post
84"x12"
Black text on orange panel

4 W20-3
30"x30"
Black text on orange panel

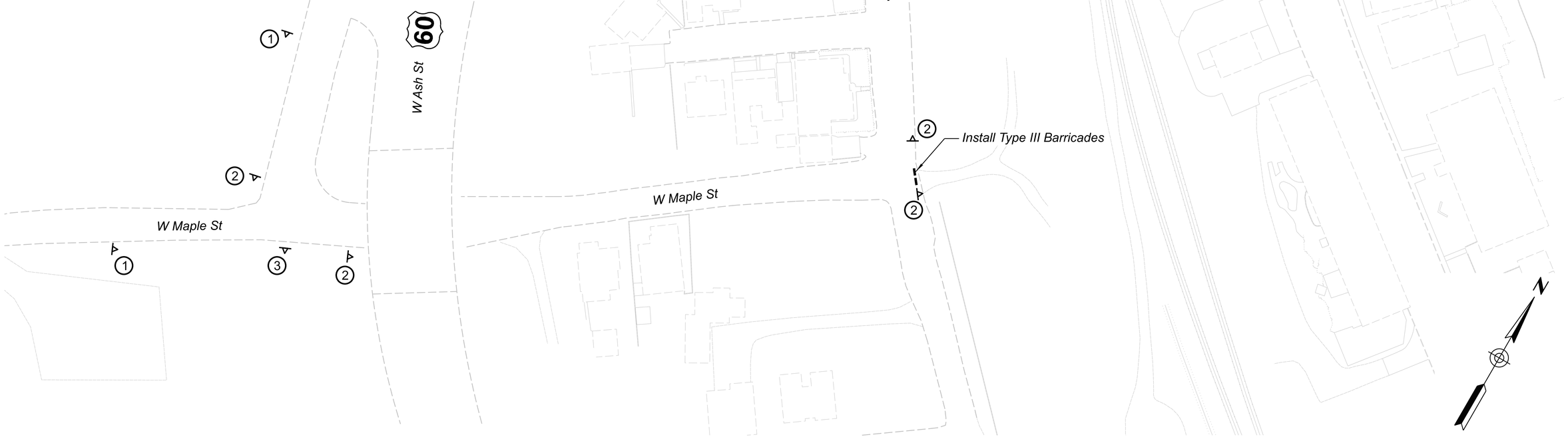
5 R11-2
48"x30"
Black text on white panel



6 R3-1
24"x24"
Black legend on orange panel



7 R3-2
24"x24"
Black legend on orange panel



	NAME	DATE
DESIGN	SR	05/23
DRAWN	SR	05/23
CHECKED	APM	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.968.8188, WWW.JACOBS.COM

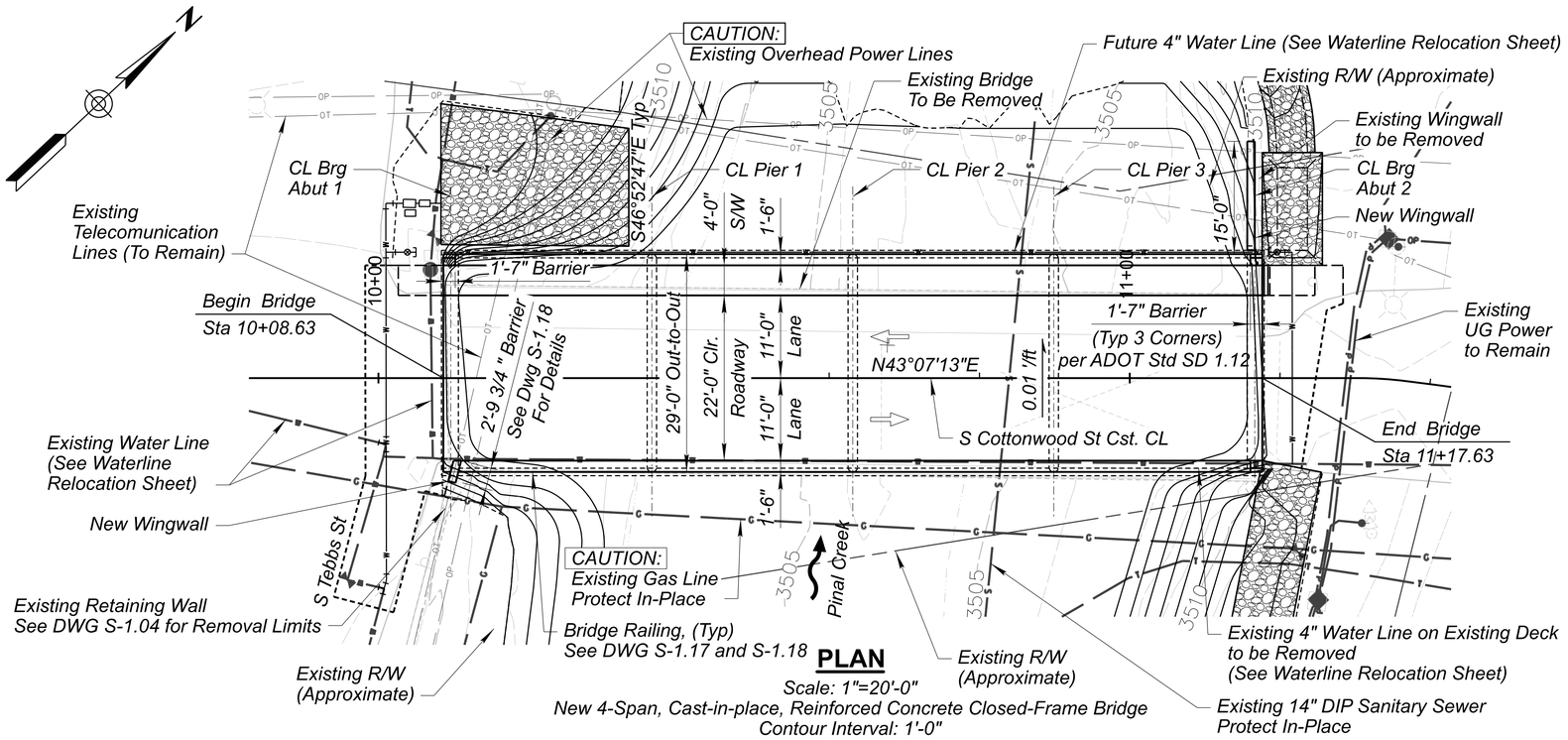
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
TRAFFIC DESIGN SECTION

ADVANCED SIGNING DETAIL

ROUTE: GLOBE
MILEPOST: N/A
STRUCTURE NO.: 11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	20	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. T-03.03
TRACS NO. T0281 01C
___ OF ___

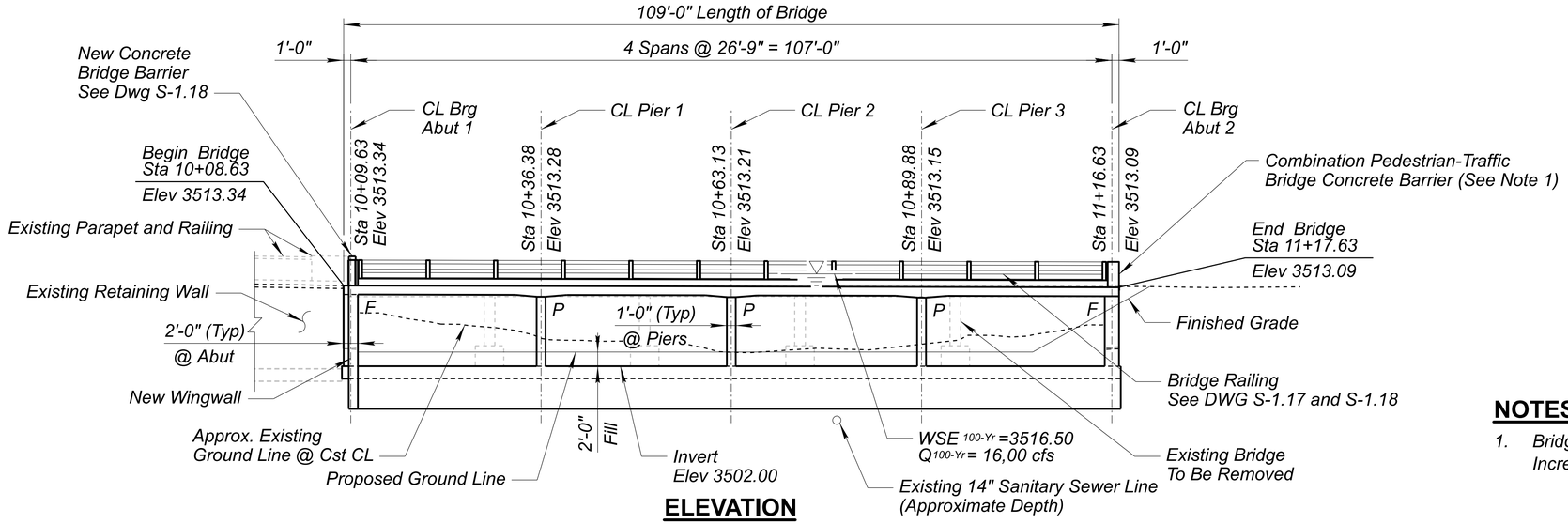


PLAN

Scale: 1"=20'-0"

New 4-Span, Cast-in-place, Reinforced Concrete Closed-Frame Bridge

Contour Interval: 1'-0"

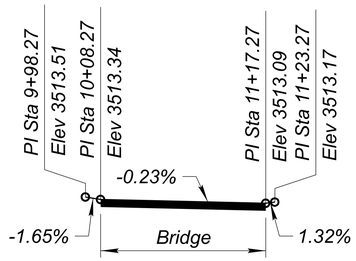


ELEVATION

Scale: 1"=20'-0"

Stations, Dimensions, and Ground Line are measured Along Cst CL

DRAWING LIST



S COTTONWOOD ST PROFILE GRADE

NOTES:

1. Bridge Concrete Barrier per ADOT Standard Drawing SD 1.12. Increase 2" Offset to Edge of Deck to 6" .

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

35174 WILLIAM ALFREDO RODRIGUEZ Date Signed 23MAY'23 ARIZONA, U.S.A.

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

GENERAL PLAN AND ELEVATION

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

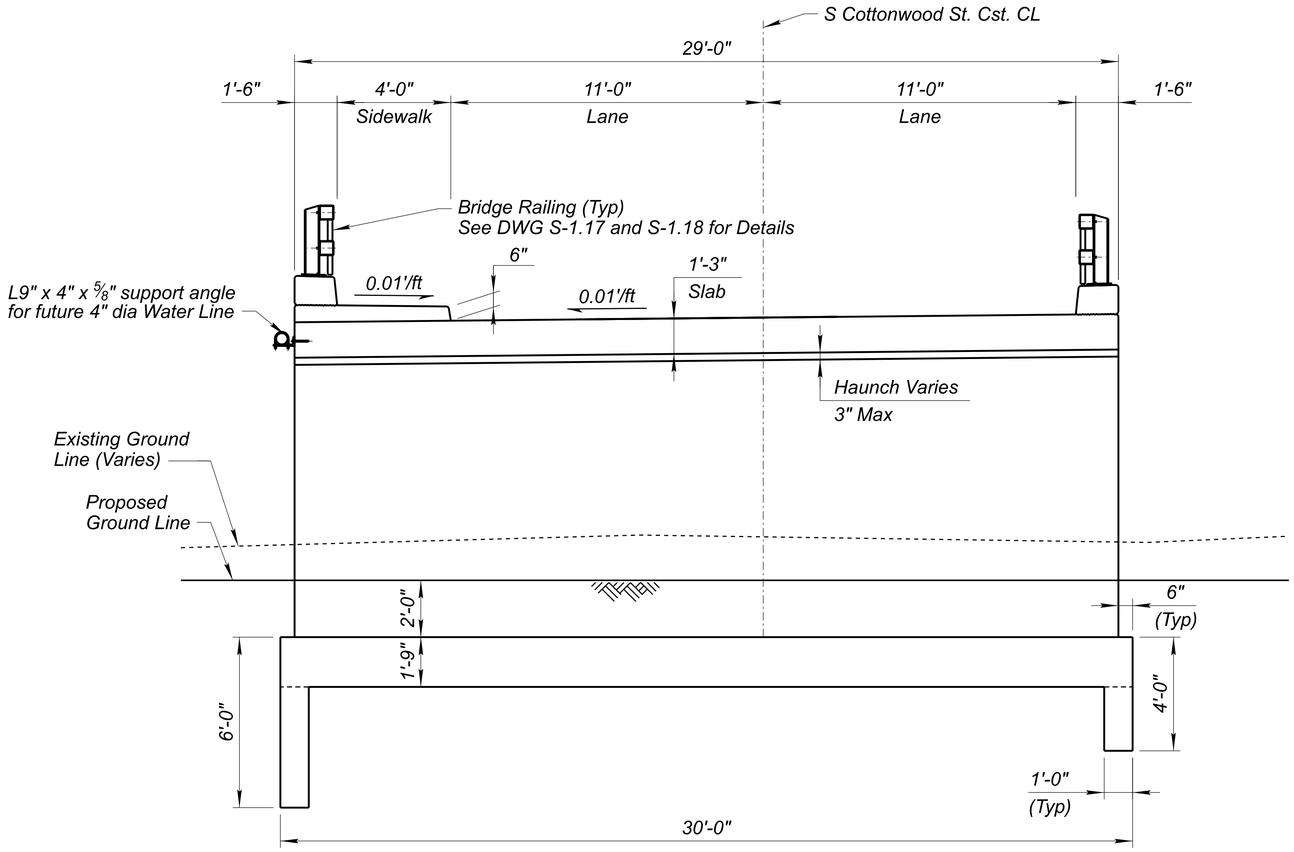
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	21	39	

LOCATION: PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. S-1.01

___ OF ___



TYPICAL SECTION (LOOKING UPSTATION)

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

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

TYPICAL SECTION

ROUTE GLOBE
MILEPOST N/A
STRUCTURE NO. 11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	22	39	

LOCATION PINAL CREEK BRIDGE
DWG NO. S-1.02
TRACS NO. T0281 01C
___ OF___

GENERAL NOTES:

Construction Specifications: Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, 2021 Edition.

Design Specifications: AASHTO LRFD Bridge Design Specifications 8th Edition, 2017.

Dead Load: Dead Load includes allowance of 25 pounds per square foot for future wearing surface.

Loading Class: HL-93.

Seismic: Bridge Site Class C
Peak Ground Acceleration (PGA) = 0.097g

Inventory and operating ratings for HL-93 are in accordance with AASHTO Manual for Bridge Evaluation, 2018 in accordance with the Load and Resistance Factor Rating Method

Inventory Rating:	*1.10*
Operating Rating:	*1.40*

Concrete:
All concrete shall be Class "S" unless noted otherwise.

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

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 inch clear cover unless noted otherwise.

Strength:

Superstructure (deck)	*f'c = 4500 psi*
Curb, sidewalk and Barrier	*f'c = 4000 psi*
Abutments, Piers, Bottom Slab & Wingwalls	*f'c = 3500 psi*
Grade 60 transverse deck reinforcement	*fs = 24000 psi*
All other Grade 60	*fy = 60000 psi*

Dimensions shall not be scaled from drawings.

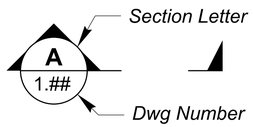
Quantities shown are based on 2021 surveys. Earthwork quantities are subject to change due to potential storm events.

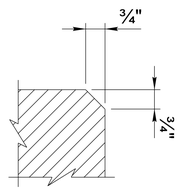
STANDARD LIST

Bridge Group Standard Drawings: SD1.12

LEGEND:

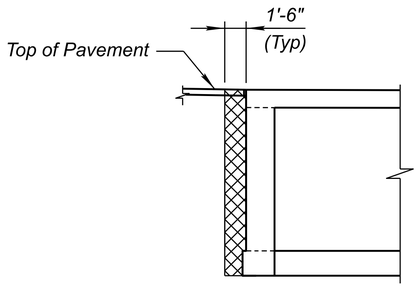
SECTION Marker



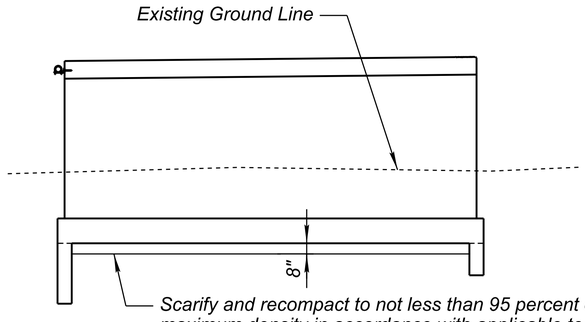


Chamfer all exposed corners as shown unless noted otherwise. This detail and note are applicable to all drawings pertaining to this bridge.

CHAMFER DETAIL
N.T.S.



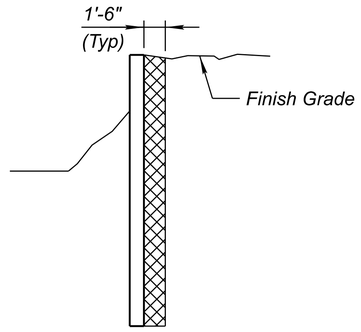
ABUTMENT



Scarify and recompact to not less than 95 percent of the maximum density in accordance with applicable test methods in the ADOT materials testing manual, and as directed and approved by the Engineer.

TYPICAL

EXCAVATION LIMITS



WINGWALL

LEGEND:

Pay Limits of Structure Backfill

STRUCTURE BACKFILL LIMITS

APPROXIMATE QUANTITIES

ITEM	STRUCT. EXCAV. C.Y.	STRUCT. BKFILL. C.Y.	CLASS "S" CONCRETE			REINF. STEEL Lbs.
			f'c=3500 PSI C.Y.	*f'c=4000 PSI C.Y.	f'c=4500 PSI C.Y.	
Abutments		60	53			8,295
Piers			32			7,060
Bottom Slab	0		239			36,050
Superstructure	-	-		24	150	39,160
Total	0	60	324	24	150	90,565
As-Built Total						

Remove Bridge ..... 1 LS
Combination Pedestrian Traffic Bridge Railing (SD 1.12) ..... 5.0 LF
Miscellaneous Work (Bridge Steel Railing) ..... 211 LF
Place Dowels ..... 8 EA
Structural Steel (Miscellaneous) ..... 289 LBS

** 4000 psi concrete includes curb, SE barrier and sidewalk.*

35174 WILLIAM ALFREDO RODRIGUEZ REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A. 23MAY23

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188. WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

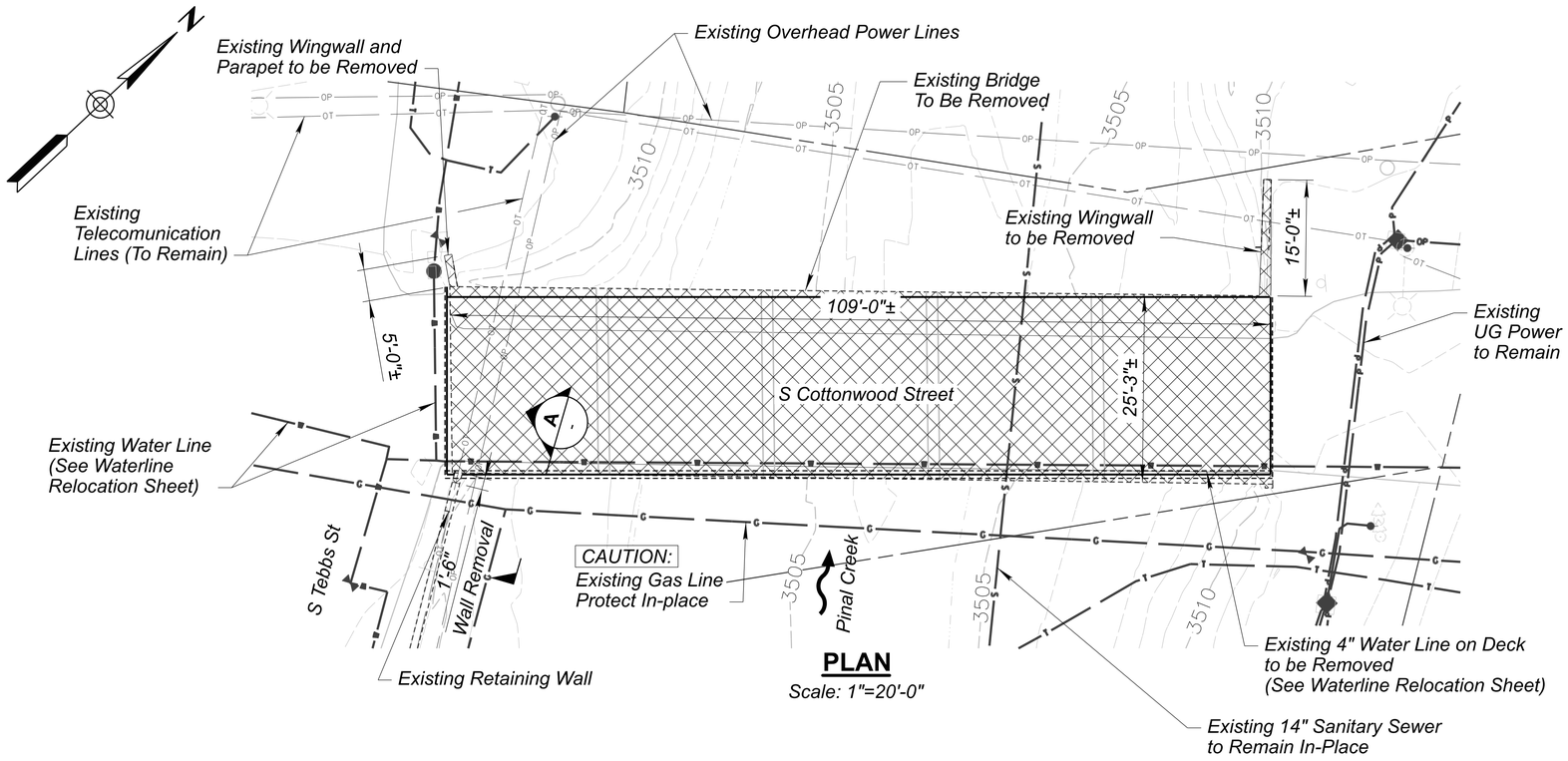
GENERAL NOTES & QUANTITIES

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

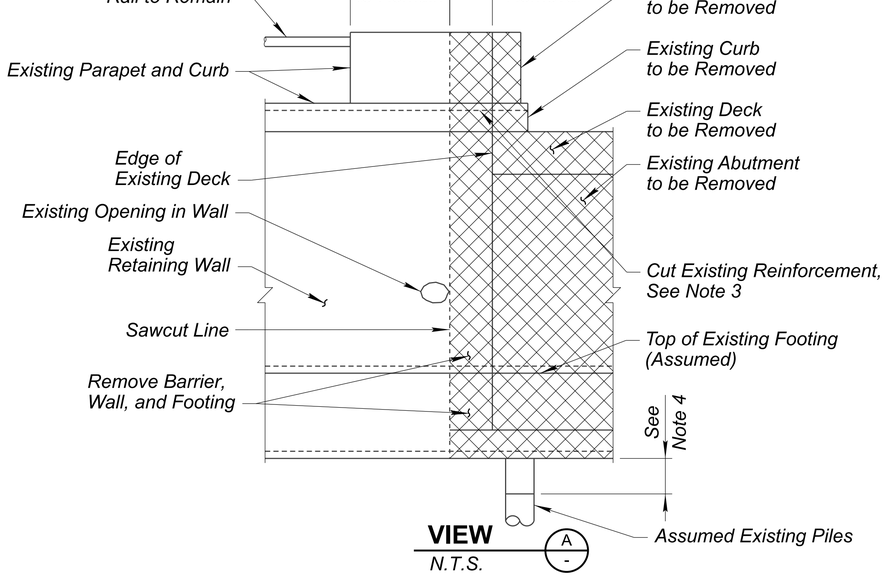
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	23	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. S-1.03
TRACS NO. T0281 01C
___ OF ___



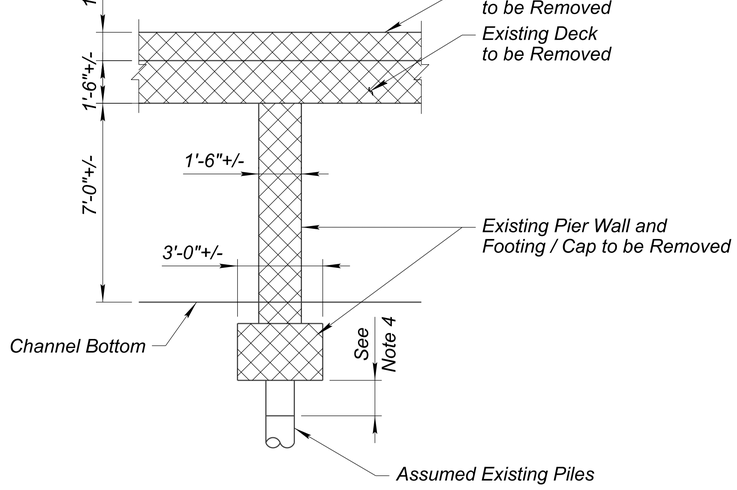
PLAN

Scale: 1"=20'-0"



VIEW A-

N.T.S.



TYPICAL PIER WALL REMOVAL

NOTES:

1. Where sawcutting existing wingwall, Contractor shall take necessary measures to protect concrete which is to remain. Any damaged concrete shall be repaired at Contractor's expense, and repair plans submitted to the Engineer prior to construction.
2. After removal leave existing concrete surface clean with no loose chips or open cracks.
3. Where severed reinforcement will be permanently exposed to earth or weather, grind the rebar to ½" below existing concrete surface and fill cavity with an approved epoxy.
4. Existing pier and abutment walls and footings/caps shall be removed. Any existing piles shall be removed to 8" minimum below bottom of new foundation slab.

EXISTING PIER FOOTING/CAP

LEGEND

Removal Limits

35174 WILLIAM ALFREDO RODRIGUEZ
Registered Professional Engineer
23MAY23
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

REMOVAL DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

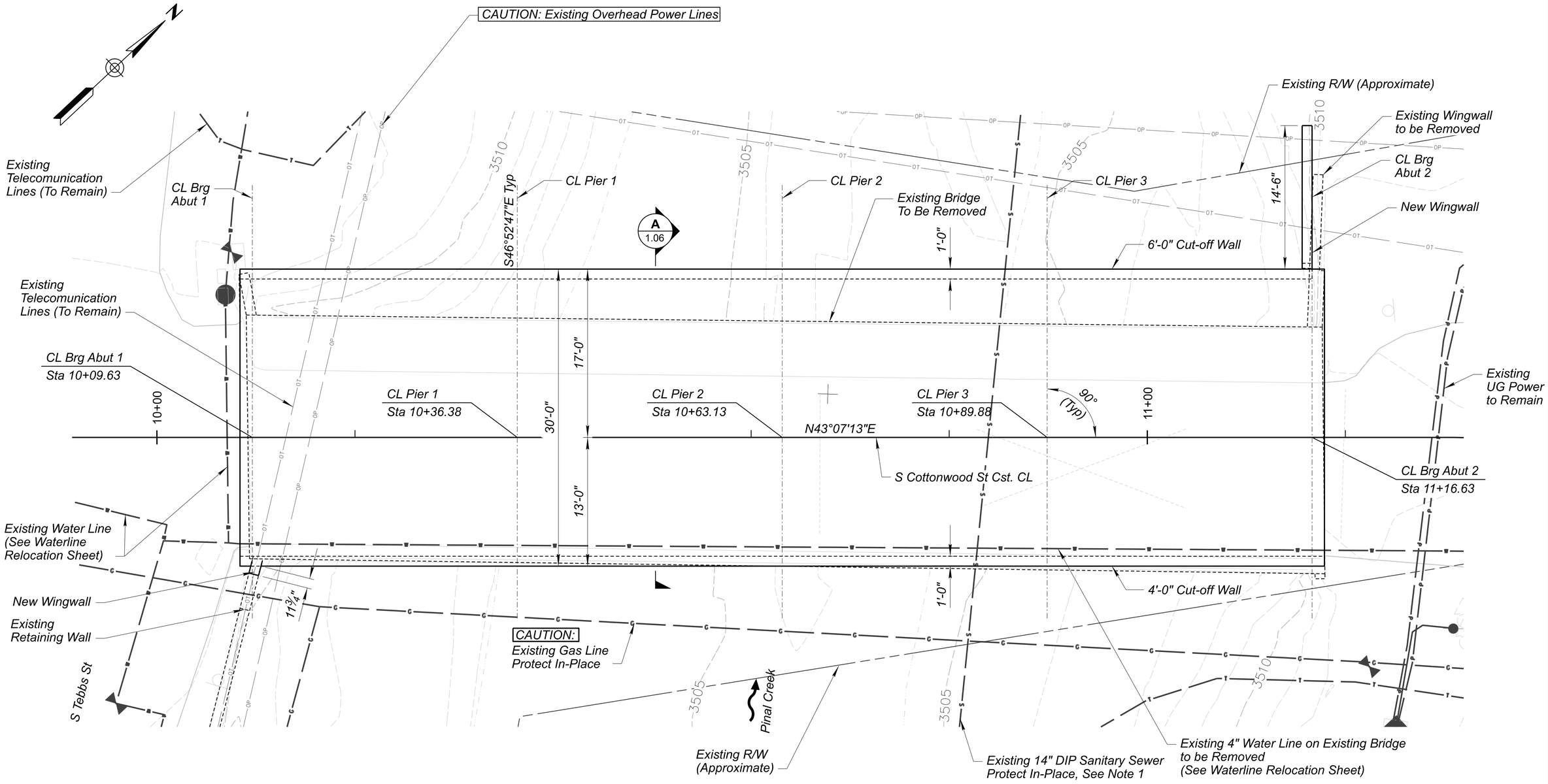
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	24	39	

LOCATION: PINAL CREEK BRIDGE

TRACS NO. T0281 01C

DWG NO. S-1.04

____ OF ____



FOUNDATION LAYOUT

Scale: 1"=10'-0"
Contour Interval: 1'-0"

NOTE:

1. *Contractor to pothole. In the Event of Conflict with Cut-off Walls, Contractor Shall Construct Cut-off Walls as shown in Detail 1 on DWG S-1.06.*

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Professional Engineer — 35174 — WILLIAM ALFREDO RODRIGUEZ — 23MAY'23 — ARIZONA, U.S.A.

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188, WWW.JACOBS.COM

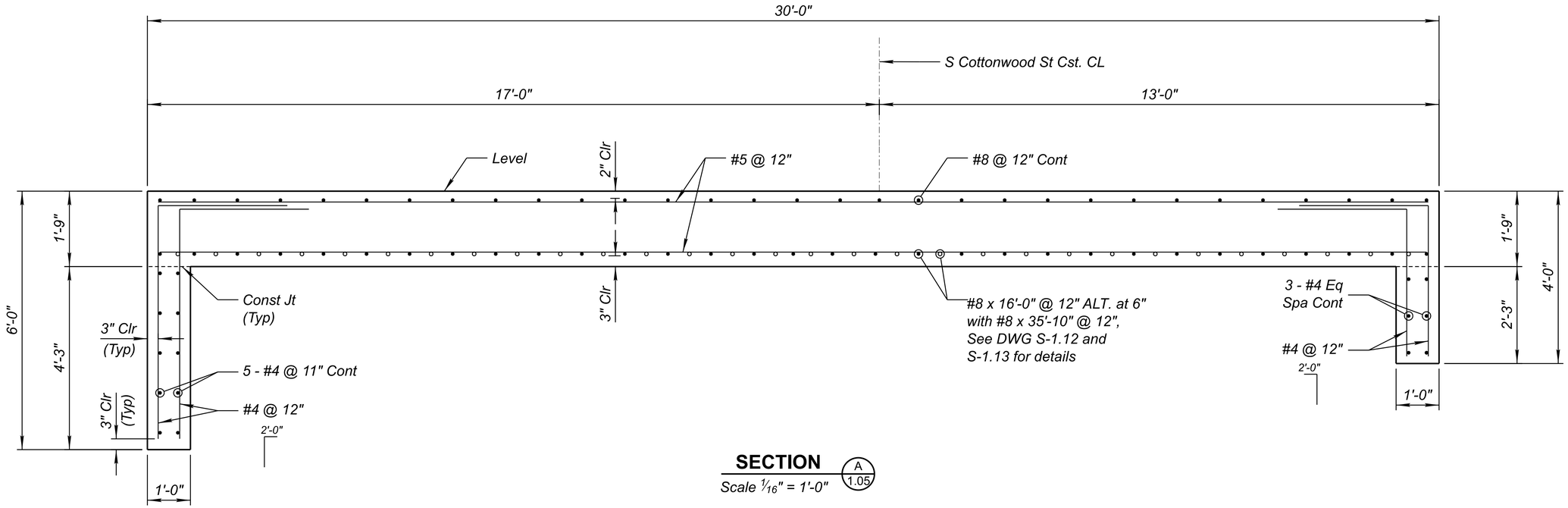
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

FOUNDATION LAYOUT

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

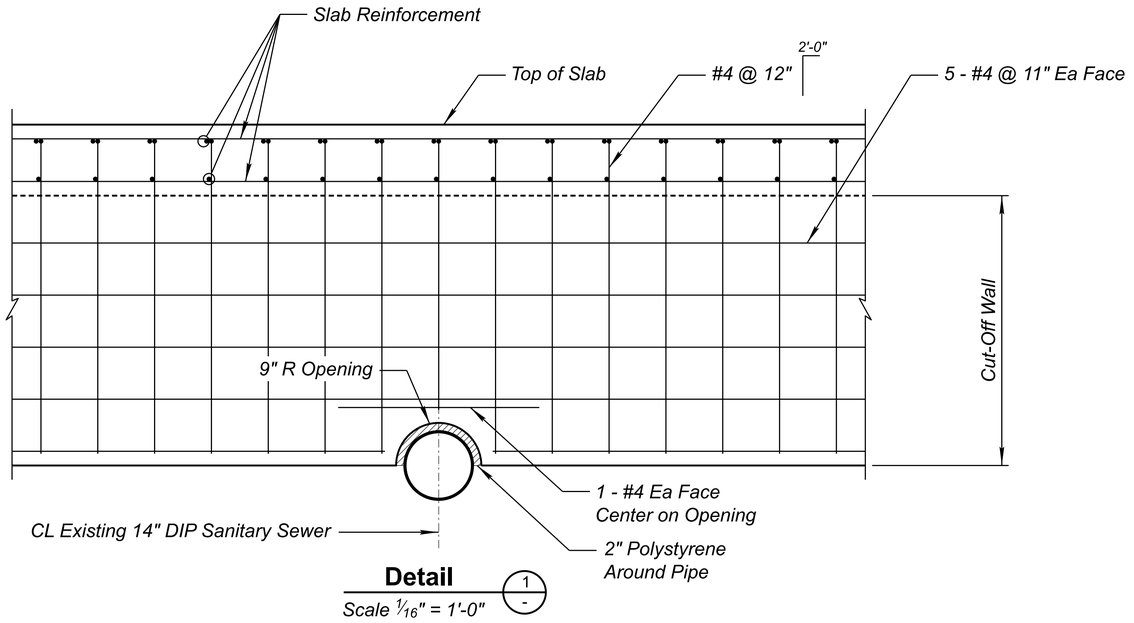
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	25	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. S-1.05
___ OF ___



SECTION (A / 1.05)

Scale 1/16" = 1'-0"



Detail (1 / -)

Scale 1/16" = 1'-0"

35174 WILLIAM ALFREDO RODRIGUEZ Date Signed 23MAY'22 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

FOUNDATION DETAILS

ROUTE: GLOBE
MILEPOST: N/A
STRUCTURE NO.: 11696

F.H.W.A. Arizona Division

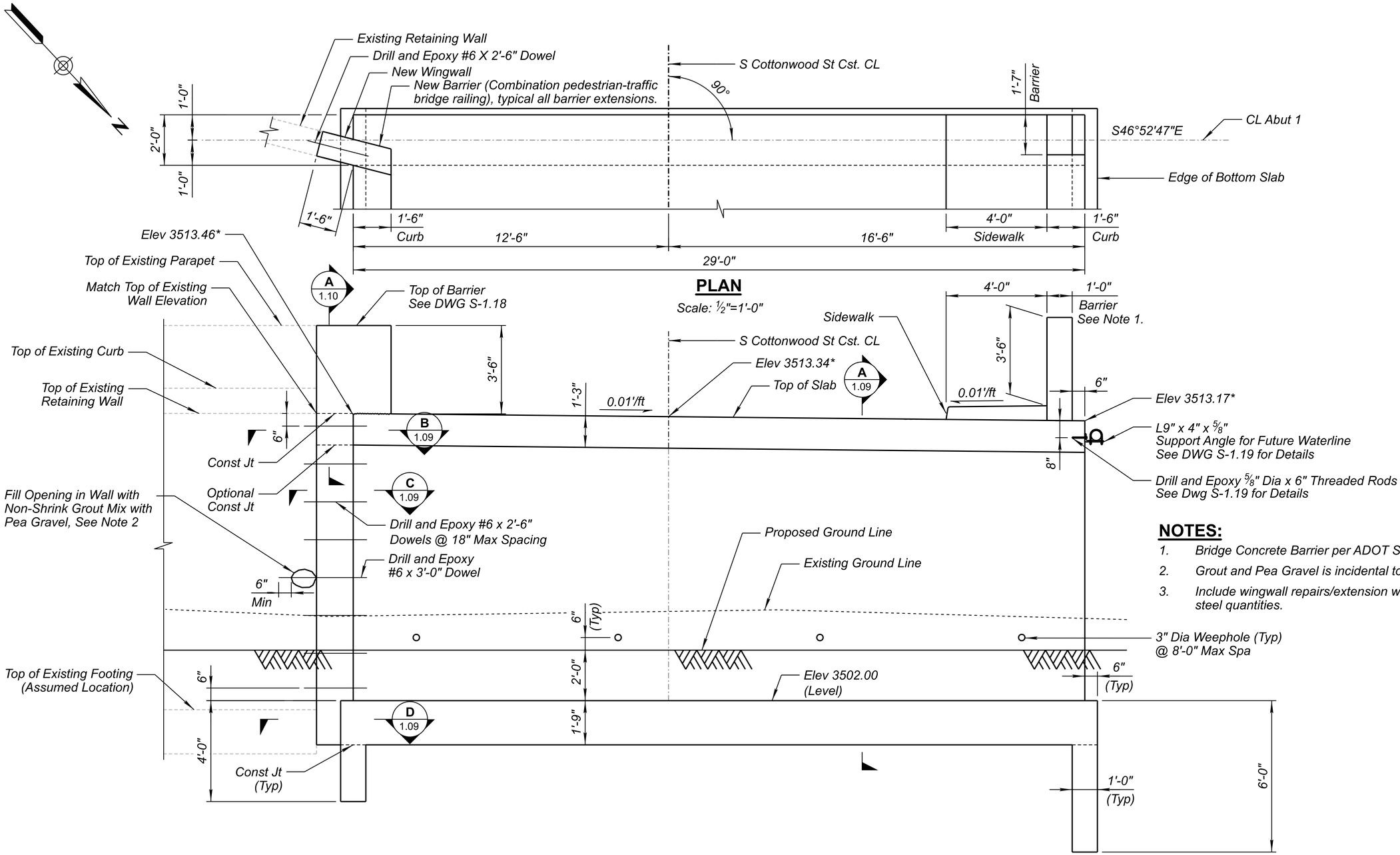
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	26	39	

LOCATION: PINAL CREEK BRIDGE

DWG NO. S-1.06

TRACS NO. T0281 01C

___ OF___



NOTES:

1. Bridge Concrete Barrier per ADOT Standard Drawing SD 1.12.
2. Grout and Pea Gravel is incidental to the work.
3. Include wingwall repairs/extension with abutment concrete and steel quantities.

ELEVATION

(Looking Back Station)
Scale: ½"=1'-0"

* Elevation measured at CL of Bearing.

35174 WILLIAM ALFREDO RODRIGUEZ 23MAY23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

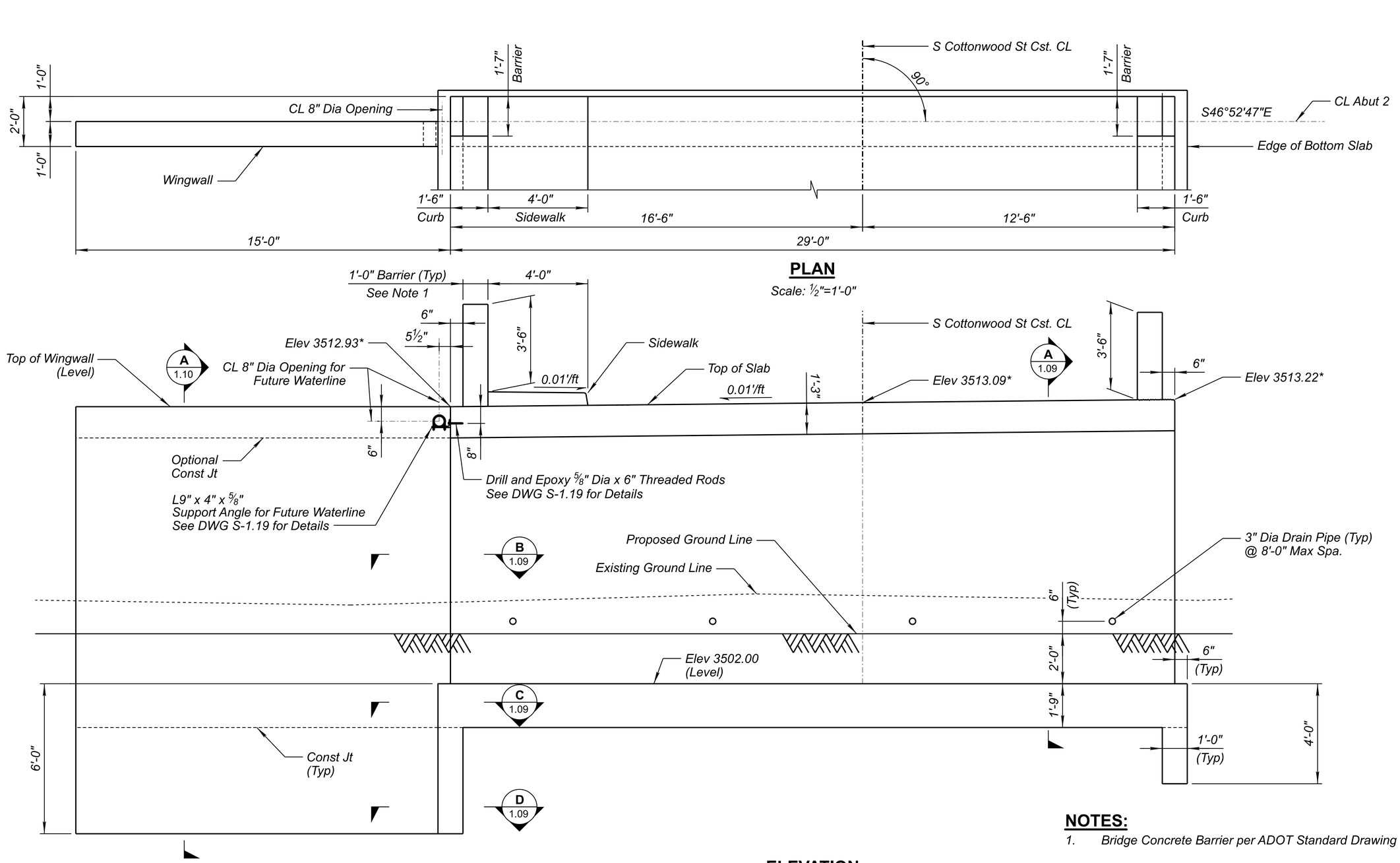
ABUTMENT 1 PLAN AND ELEVATION

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	27	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. S-1.07
TRACS NO. T0281 01C
___ OF ___



ELEVATION

(Looking Up Station)
Scale: ½"=1'-0"

NOTES:

1. *Bridge Concrete Barrier per ADOT Standard Drawing SD 1.12.*

** Elevation measured at CL of Bearing.*

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

35174 WILLIAM ALFREDO RODRIGUEZ 23MAY23 ARIZONA, U.S.A.

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282. Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ABUTMENT 2 PLAN AND ELEVATION

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

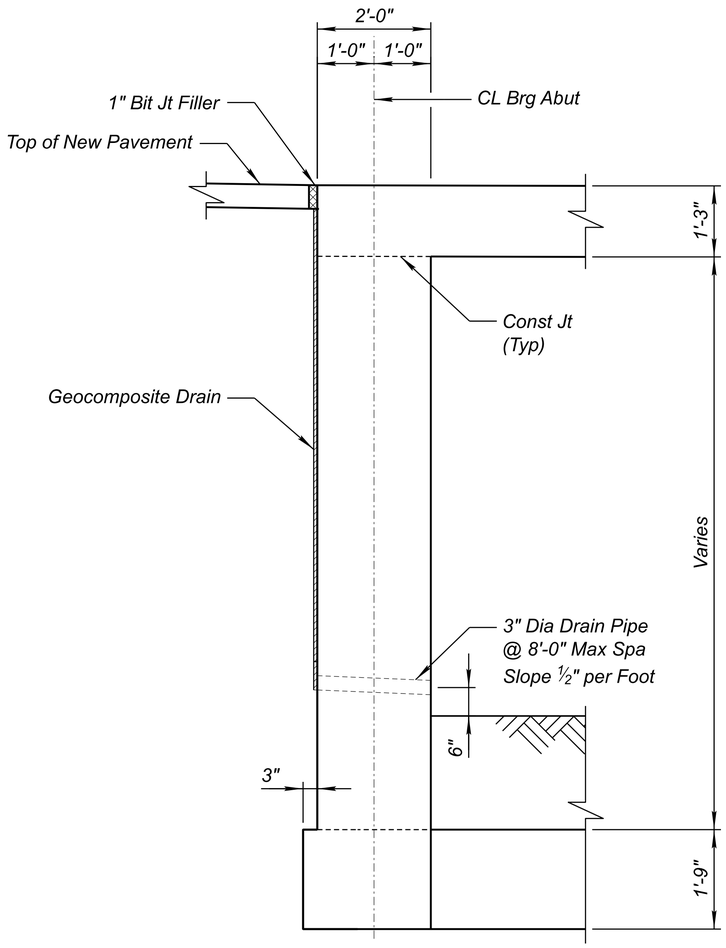
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	28	39	

LOCATION: PINAL CREEK BRIDGE

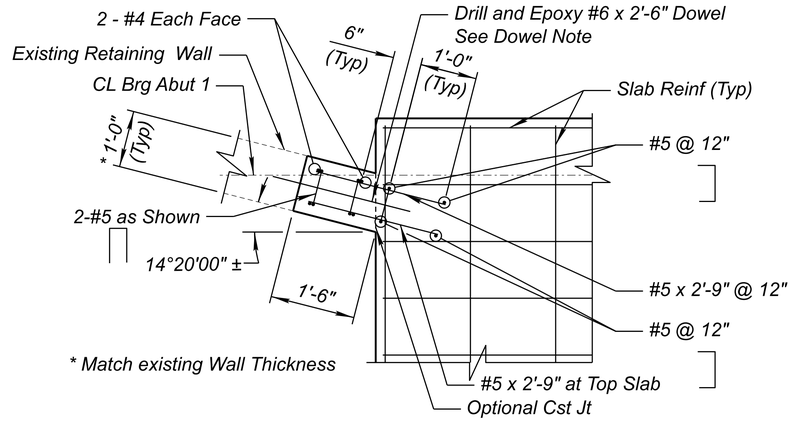
TRACS NO. T0281 01C

DWG NO. S-1.08

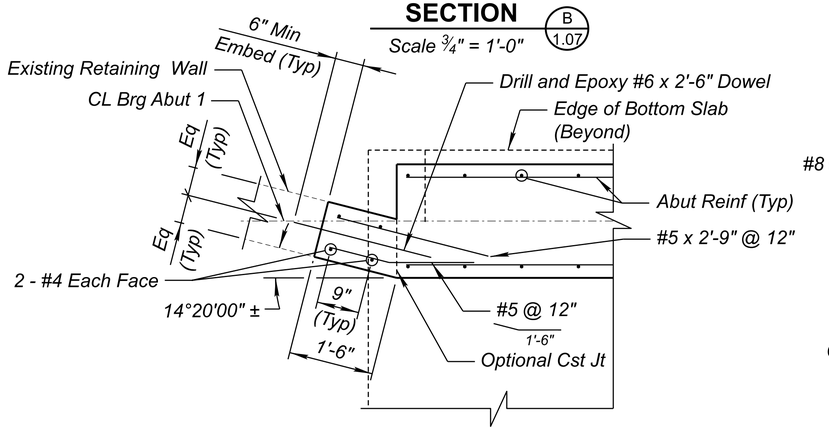
___ OF ___



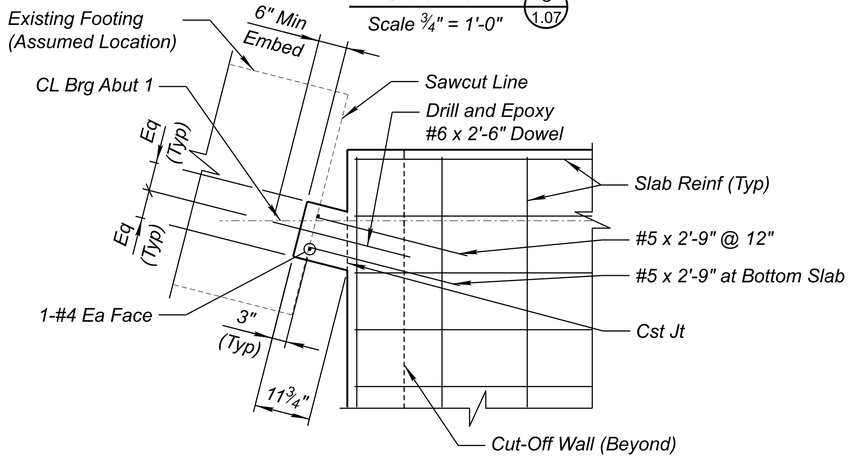
SECTION A 1.07 / A 1.08
Scale ¾" = 1'-0"



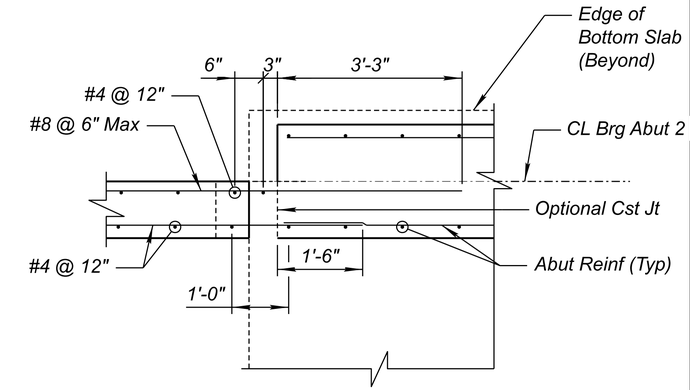
SECTION B 1.07
Scale ¾" = 1'-0"



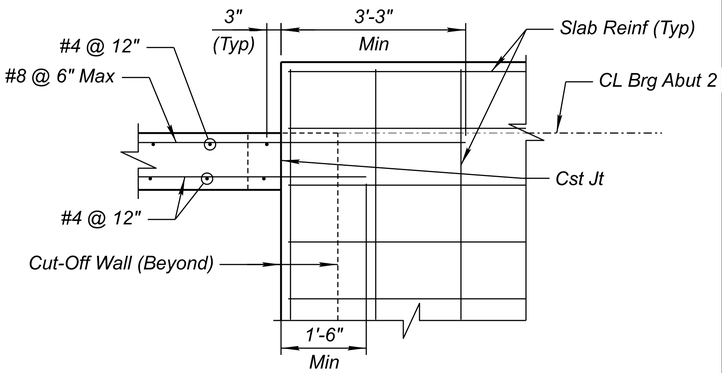
SECTION C 1.07
Scale ¾" = 1'-0"



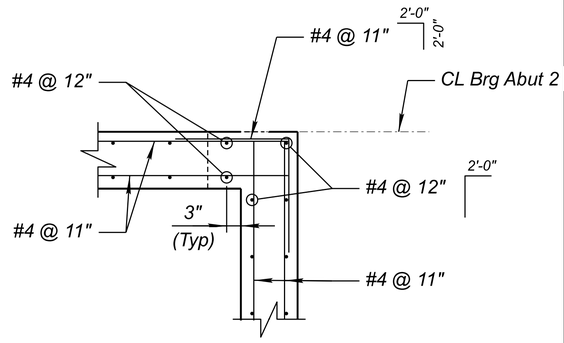
SECTION D 1.07
Scale ¾" = 1'-0"



SECTION B 1.08
Scale ¾" = 1'-0"



SECTION C 1.08
Scale ¾" = 1'-0"



SECTION D 1.08
Scale ¾" = 1'-0"

Dowel Note:
Drill hole 6" min depth for #6 dowels. Hole diameter shall be in accordance with epoxy adhesive manufacturer recommendations. Anchor dowel in hole with an approved epoxy adhesive. Epoxy anchorage shall develop a tensile pullout strength 11 kips. Details of the anchorage system shall be submitted to the engineer for approval prior to installation.

35174 WILLIAM ALFREDO RODRIGUEZ Registered Professional Engineer 23/MAY/23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.968.8188, WWW.JACOBS.COM

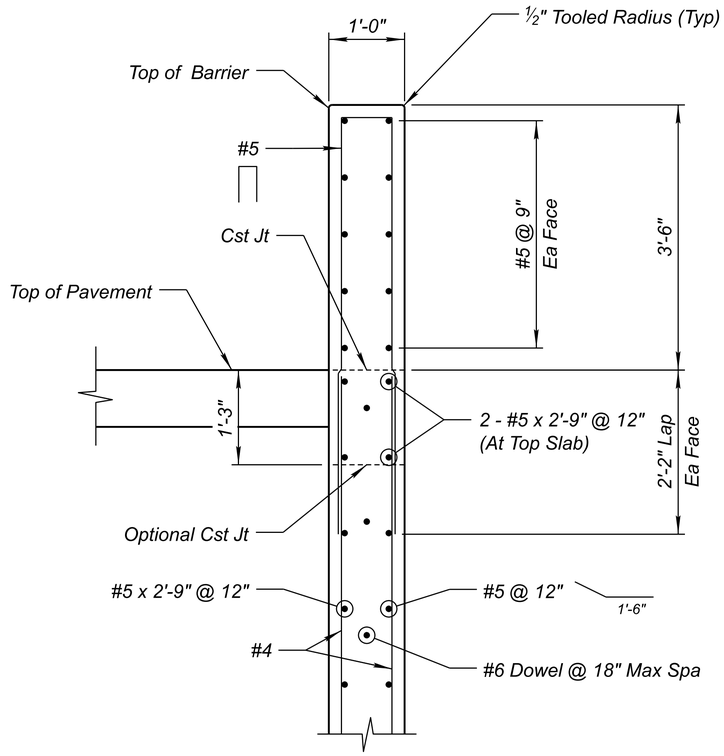
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

ABUTMENT DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

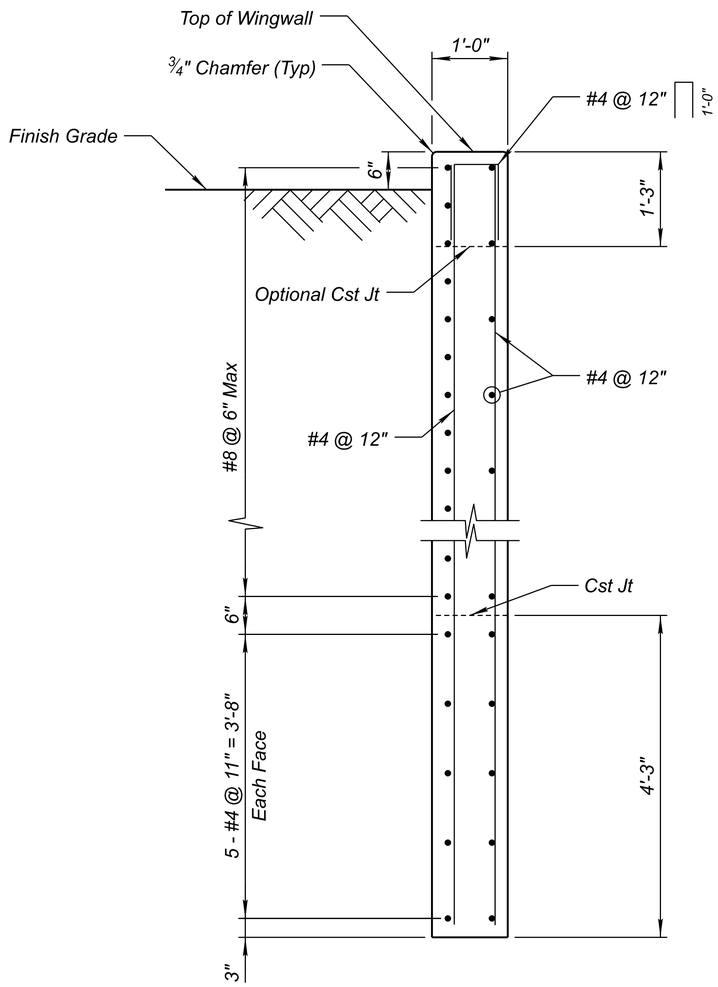
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	29	39	

LOCATION PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. S-1.09
___ OF ___



SECTION (A 1.07)

Scale ¾" = 1'-0"



SECTION (A 1.08)

Scale ¾" = 1'-0"

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

WINGWALL DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

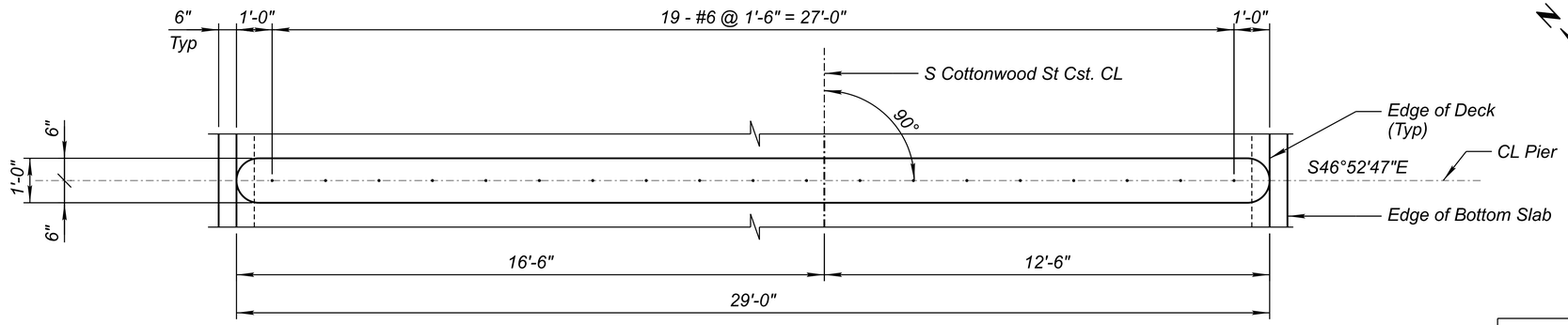
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	30	39	

LOCATION: PINAL CREEK BRIDGE

DWG NO. S-1.10

TRACS NO. T0281 01C

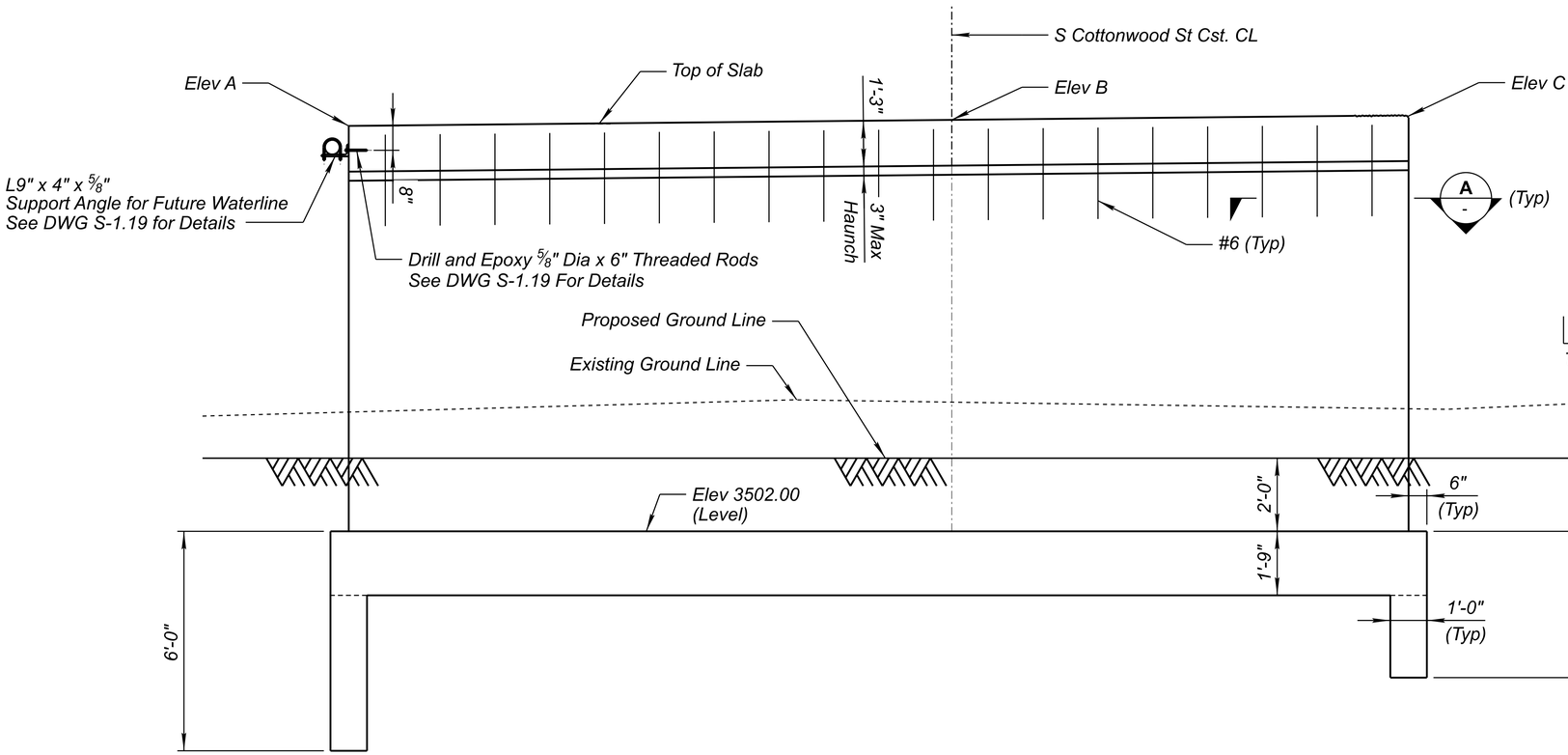
____ OF ____



PLAN

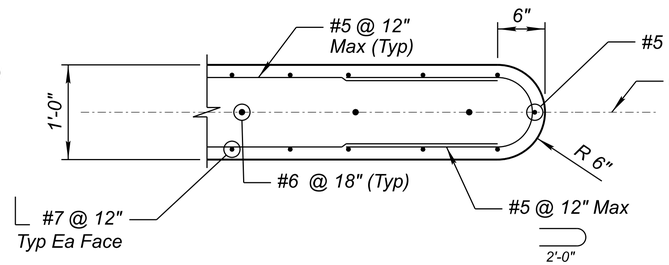
Scale: ½"=1'-0"

PIER WALL ELEVATIONS			
PIER	ELEV A	ELEV B	ELEV C
1	3513.11	3513.28	3513.40
2	3513.05	3513.21	3513.34
3	3512.99	3513.15	3513.28



ELEVATION

Scale: ½"=1'-0"



SECTION A -

Scale 1" = 1'-0"

35174
WILLIAM ALFREDO RODRIGUEZ
23MAY23
ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

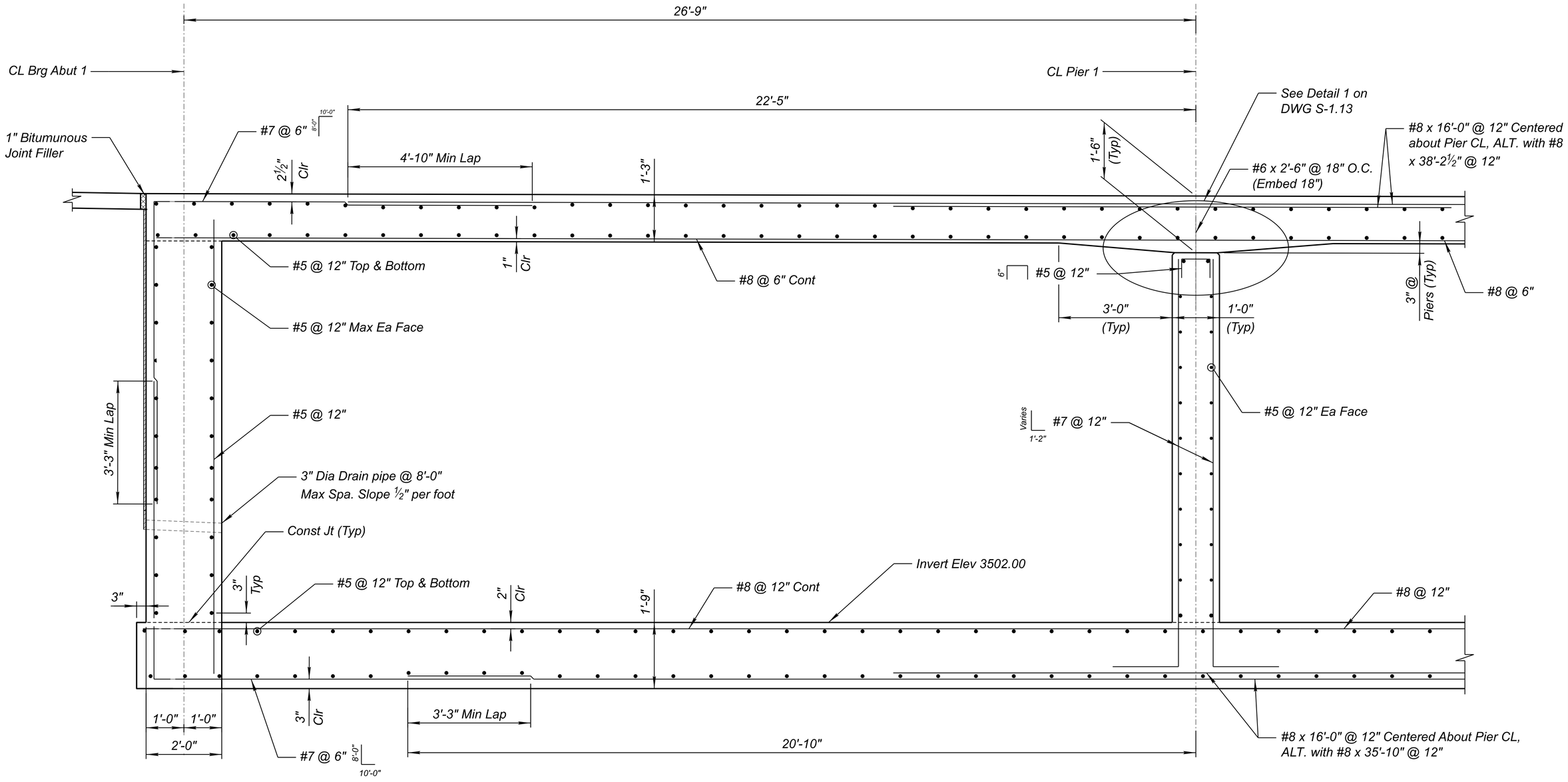
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

PIER PLAN AND ELEVATION

ROUTE: GLOBE
MILEPOST: N/A
STRUCTURE NO.: 11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	31	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. S.1.11
___ OF ___



TYPICAL LONGITUDINAL SECTION

Span 1 Shown, Span 4 Similar But Opposite
Scale 1" = 1'-0"

35174 WILLIAM ALFREDO RODRIGUEZ 23MAY'23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

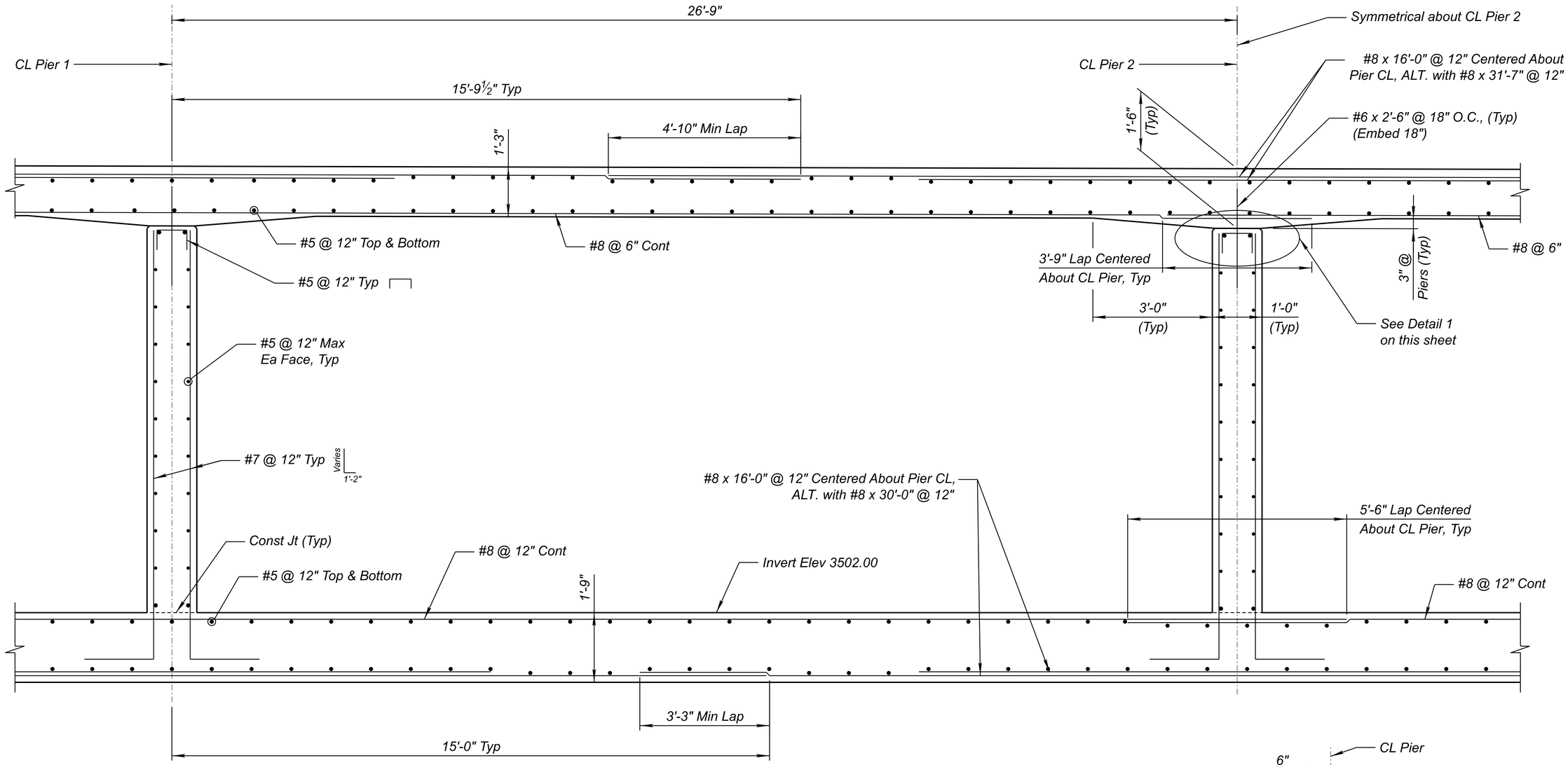
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

TYPICAL CROSS SECTION 1

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

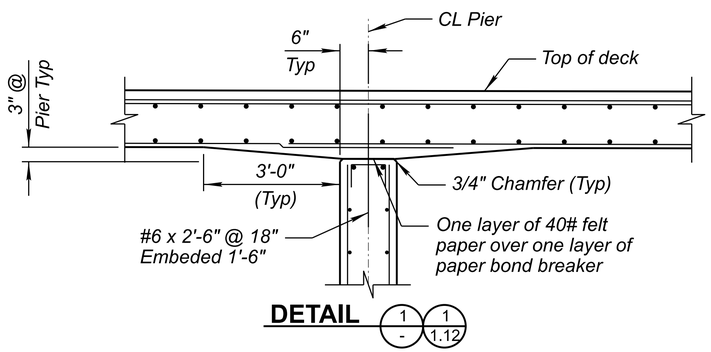
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	32	39	

LOCATION: PINAL CREEK BRIDGE
DWG NO. S-1.12
TRACS NO. T0281 01C
____ OF____



TYPICAL LONGITUDINAL SECTION

Span 2 Shown, Span 3 Similar
Scale 1" = 1'-0"



DETAIL 1 - 1 1.12

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

35174 WILLIAM ALFREDO RODRIGUEZ — Registered Professional Engineer — ARIZONA, U.S.A. — 23MAY23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

TYPICAL CROSS SECTION 2

ROUTE: GLOBE
MILEPOST: N/A
STRUCTURE NO.: 11696

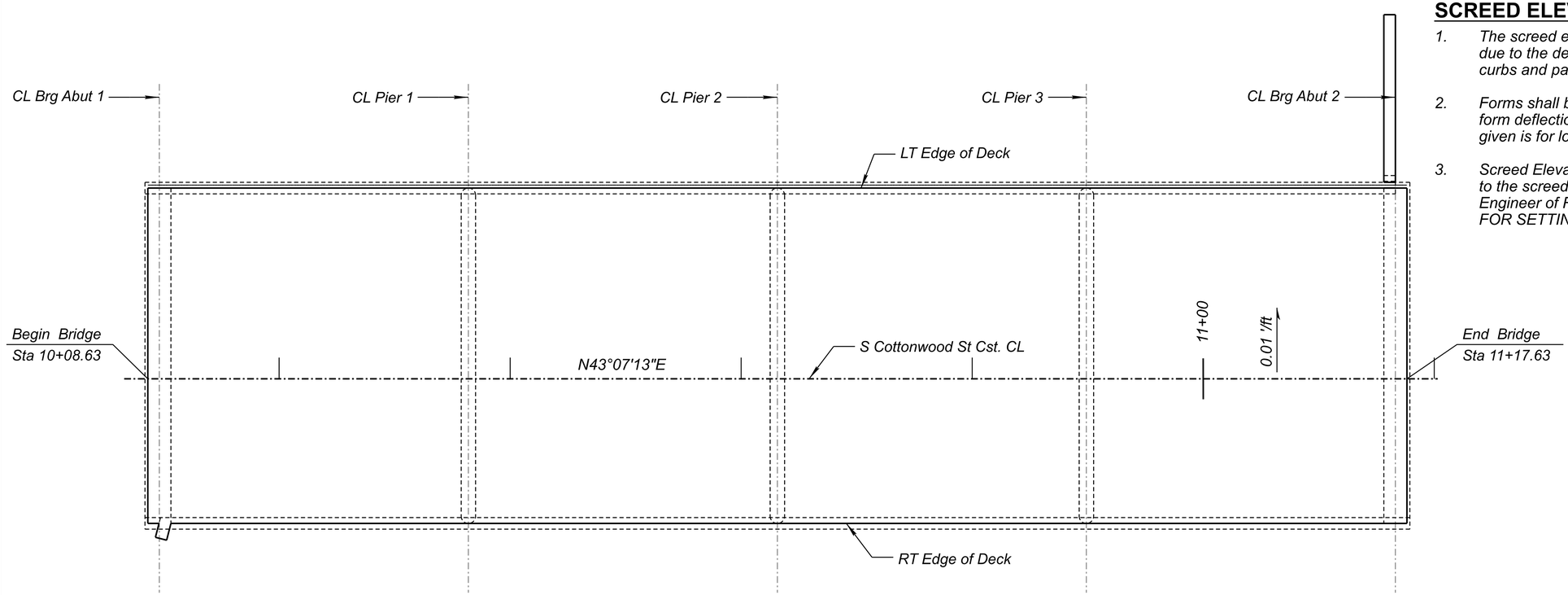
F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	33	39	

LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. S-1.13
___ OF ___

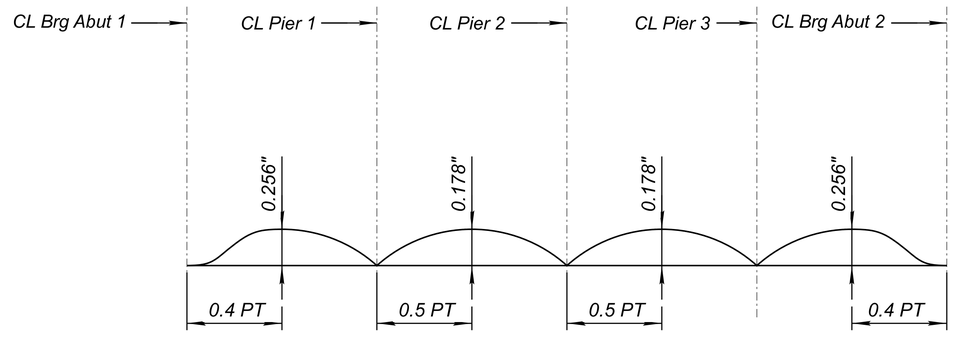
SCREED ELEVATION NOTES:

1. *The screed elevation includes an allowance for the deflection due to the dead load of the concrete deck slab, sidewalk, curbs and parapets.*
2. *Forms shall be cambered for dead load deflections, vertical profile, form deflection and the falsework settlement. Camber diagram given is for long term dead load effects only.*
3. *Screed Elevations shall be used in setting screeds. Adjustments to the screed elevations, if necessary will be determined by Engineer of Record. (DO NOT USE FINISH GRADE ELEVATIONS FOR SETTING SCREEDS.)*



DECK SCREEDS PLAN

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



DEAD LOAD CAMBER DIAGRAM

Scale: NTS

35174 WILLIAM ALFREDO RODRIGUEZ Registered Professional Engineer Date Signed 23MAY'23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

CAMBER DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	34	39	

LOCATION: PINAL CREEK BRIDGE

DWG NO. S-1.14

TRACS NO. T0281 01C

___ OF___

SPAN 1

	CL Brg Abut 1	0. 1pt.	0. 2pt.	0. 3pt.	0. 4pt.	0. 5pt.	0. 6pt.	0. 7pt.	0. 8pt.	0. 9pt.	CL Pier 1
LT Edge Deck	3513.17	3513.35	3513.39	3513.40	3513.40	3513.39	3513.37	3513.35	3513.31	3513.24	3513.11
Constr. CL	3513.34	3513.51	3513.56	3513.57	3513.57	3513.56	3513.54	3513.51	3513.48	3513.40	3513.28
RT Edge Deck	3513.46	3513.64	3513.68	3513.69	3513.69	3513.68	3513.66	3513.64	3513.60	3513.53	3513.40

SPAN 2

	CL Pier 1	0. 1pt.	0. 2pt.	0. 3pt.	0. 4pt.	0. 5pt.	0. 6pt.	0. 7pt.	0. 8pt.	0. 9pt.	CL Pier 2
LT Edge Deck	3513.11	3513.21	3513.25	3513.26	3513.26	3513.26	3513.25	3513.23	3513.21	3513.16	3513.05
Constr. CL	3513.28	3513.37	3513.41	3513.42	3513.43	3513.42	3513.41	3513.40	3513.37	3513.32	3513.21
RT Edge Deck	3513.40	3513.50	3513.54	3513.55	3513.55	3513.55	3513.54	3513.52	3513.50	3513.45	3513.34

SPAN 3

	CL Pier 2	0. 1pt.	0. 2pt.	0. 3pt.	0. 4pt.	0. 5pt.	0. 6pt.	0. 7pt.	0. 8pt.	0. 9pt.	CL Pier 3
LT Edge Deck	3513.05	3513.15	3513.18	3513.19	3513.20	3513.20	3513.19	3513.17	3513.15	3513.10	3512.99
Constr. CL	3513.21	3513.31	3513.35	3513.36	3513.36	3513.36	3513.35	3513.34	3513.31	3513.26	3513.15
RT Edge Deck	3513.34	3513.44	3513.47	3513.48	3513.49	3513.49	3513.48	3513.46	3513.44	3513.39	3513.28

SPAN 4

	CL Pier 3	0. 1pt.	0. 2pt.	0. 3pt.	0. 4pt.	0. 5pt.	0. 6pt.	0. 7pt.	0. 8pt.	0. 9pt.	CL Brg Abut 2
LT Edge Deck	3512.99	3513.10	3513.16	3513.19	3513.20	3513.21	3513.21	3513.19	3513.17	3513.11	3512.93
Constr. CL	3513.15	3513.27	3513.33	3513.35	3513.37	3513.37	3513.37	3513.36	3513.34	3513.28	3513.09
RT Edge Deck	3513.28	3513.39	3513.45	3513.48	3513.49	3513.50	3513.50	3513.48	3513.46	3513.40	3513.22

35174 WILLIAM ALFREDO RODRIGUEZ
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
23MAY'23

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

SCREED ELEVATIONS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	35	39	

LOCATION: PINAL CREEK BRIDGE

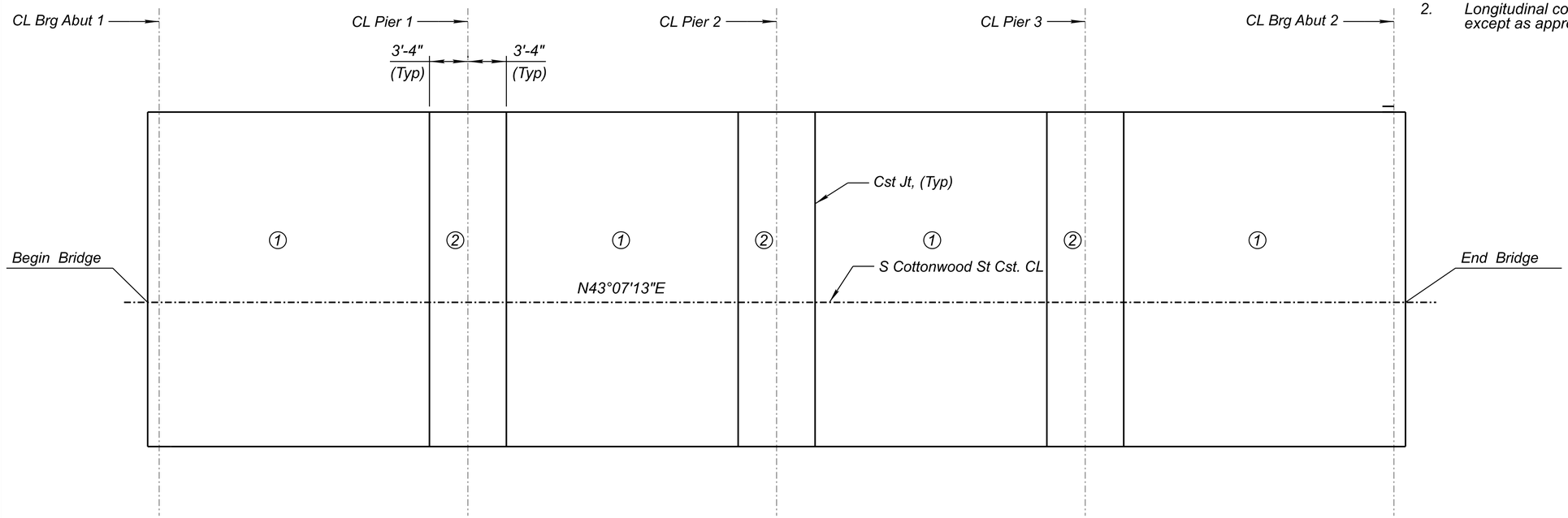
TRACS NO. T0281 01C

DWG NO. S-1.15

___ OF ___

Concrete Placement Notes:

1. *Number ① and ② indicate section and placing sequence of deck slab concrete. Place ② sections a minimum of 12 hours after adjacent ① sections have been place.*
2. *Longitudinal construction joints in the deck slab shall not be allowed except as approved by the Engineer.*



DECK POUR SEQUENCE PLAN

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

35174 WILLIAM ALFREDO RODRIGUEZ Date Signed 23MAY'23 ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY., SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

CONSTRUCTION POUR SEQUENCE

ROUTE GLOBE
MILEPOST N/A
STRUCTURE NO. 11696

F.H.W.A. Arizona Division

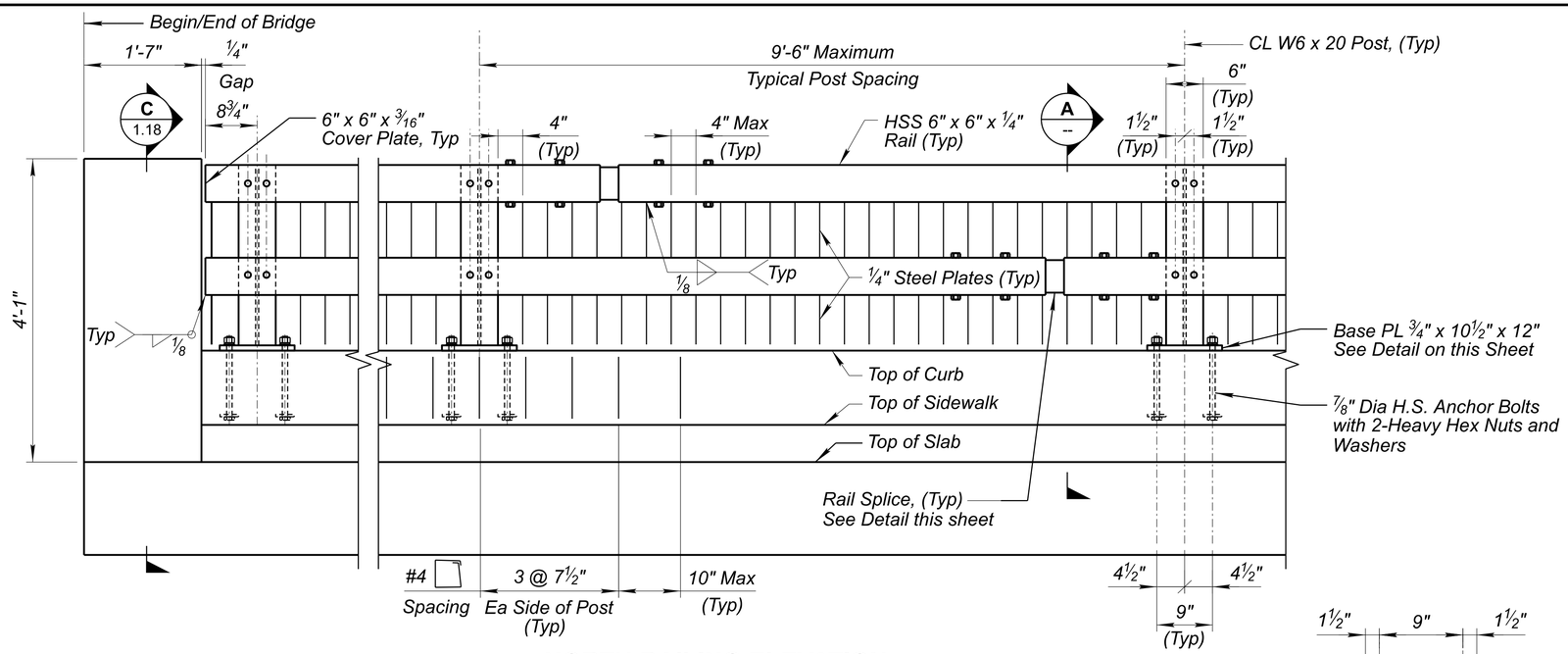
STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	36	39	

LOCATION PINAL CREEK BRIDGE

DWG NO. S-1.16

TRACS NO. T0281 01C

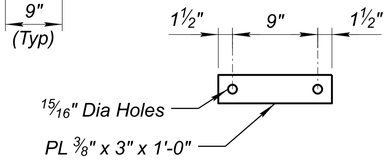
___ OF___



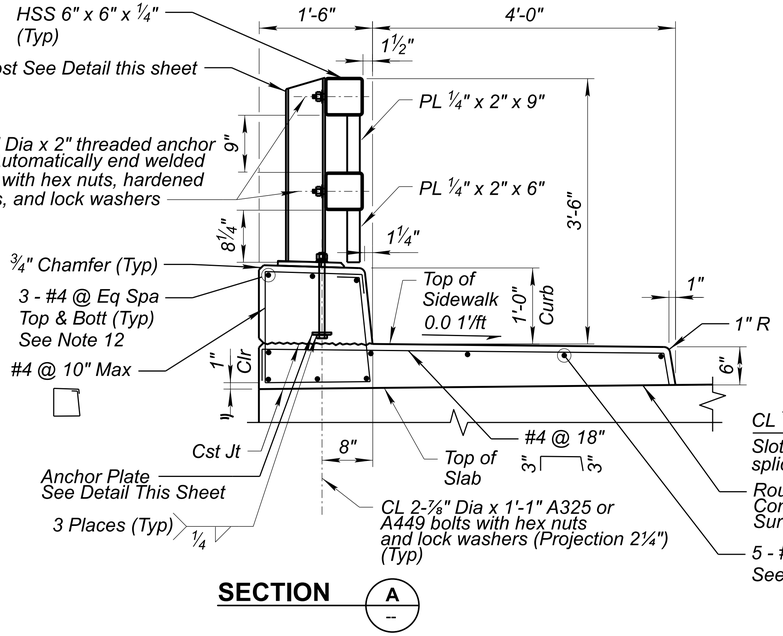
NORTH RAILING ELEVATION

RAILING NOTES:

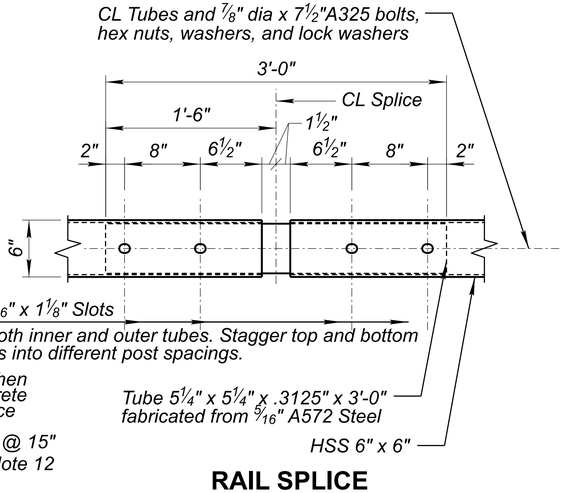
1. All rail tubes (HSS) shall conform to ASTM A1085. All posts, base plates and splice tubes shall conform to ASTM A572, Grade 50. All other structural steel shall conform to ASTM A36 u.n.o.
2. All bolts shall conform to ASTM A325 or A449.
3. All welding shall conform to the requirements of the American Welding Society, Structural Welding Code D1.1, latest edition.
4. All bolts, nuts and washers shall be galvanized in accordance with the requirements of ASTM A153.
5. All structural steel shall be galvanized after fabrication in accordance with ASTM A123 and shall be stained after galvanizing with a weather steel coloring agent, see the Special Provisions.
6. Horizontal tubes shall be continuous over not less than 2 posts, preferably 4 posts. No welded butt splices will be allowed in the tube sections.
7. The centerline of the tube splice shall be 1'-9"minimum and 2'-6" maximum from the centerline of the posts.
8. All bolts that have lock washers shall be snug tight.
9. All rails to be parallel to grade u.n.o.
10. This railing has been successfully evaluated by full scale crash test to meet AASHTO Mash 2016 requirements for test level 4.
11. Anchor bolts and hardware are incidental to the cost of the railing.
12. #4 Minimum lap length = 1'-6".



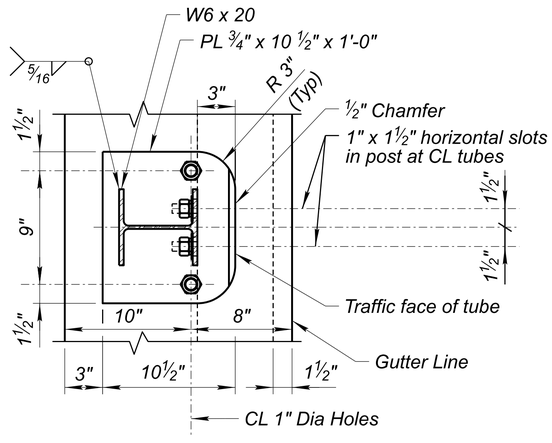
ANCHOR PLATE DETAIL



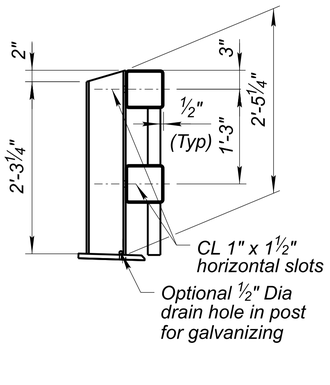
SECTION A --



RAIL SPLICE



BASE PLATE DETAIL



POST DETAIL

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

35174 WILLIAM ALFREDO RODRIGUEZ 23MAY'23 ARIZONA, U.S.A.

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, Ph: 480.966.8188, WWW.JACOBS.COM

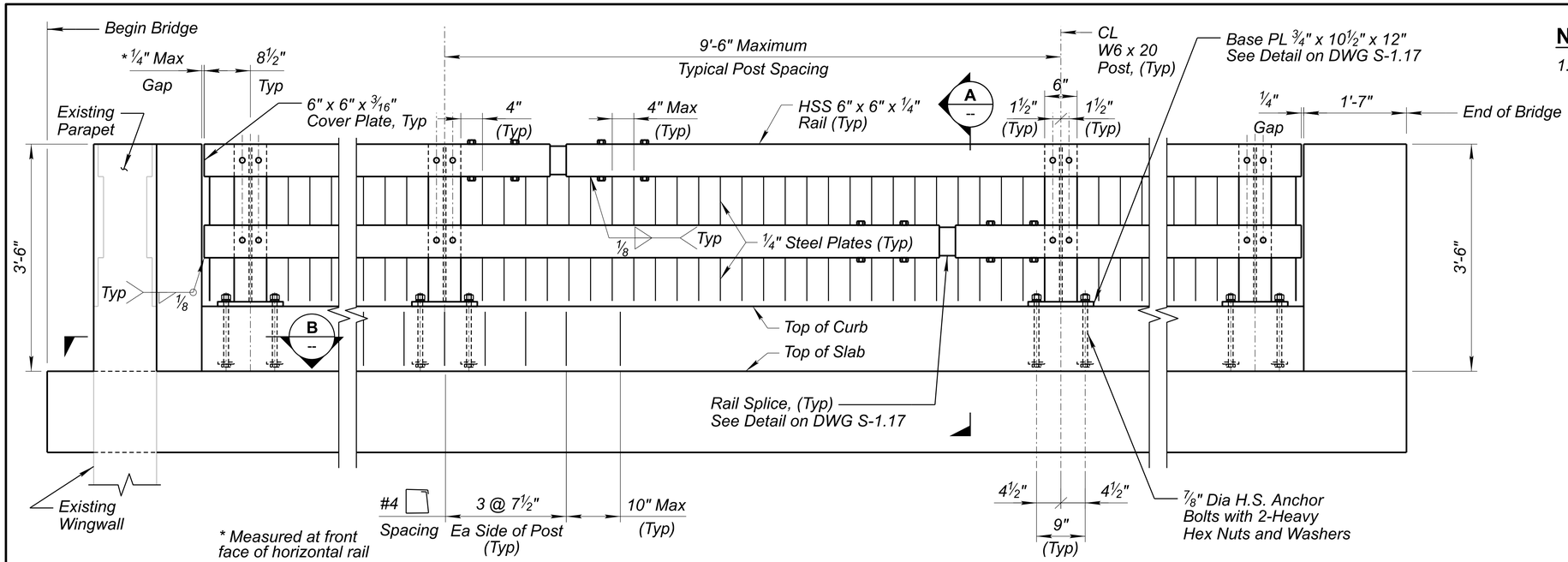
ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

BRIDGE RAILING DETAILS 1

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
GLOBE	ARIZ.	0000 GI GLB	GLB-0(209)T	37	39	
MILEPOST N/A	LOCATION PINAL CREEK BRIDGE					DWG NO. S-1.17
STRUCTURE NO. 11696	TRACS NO. T0281 01C					___ OF ___

F.H.W.A. Arizona Division

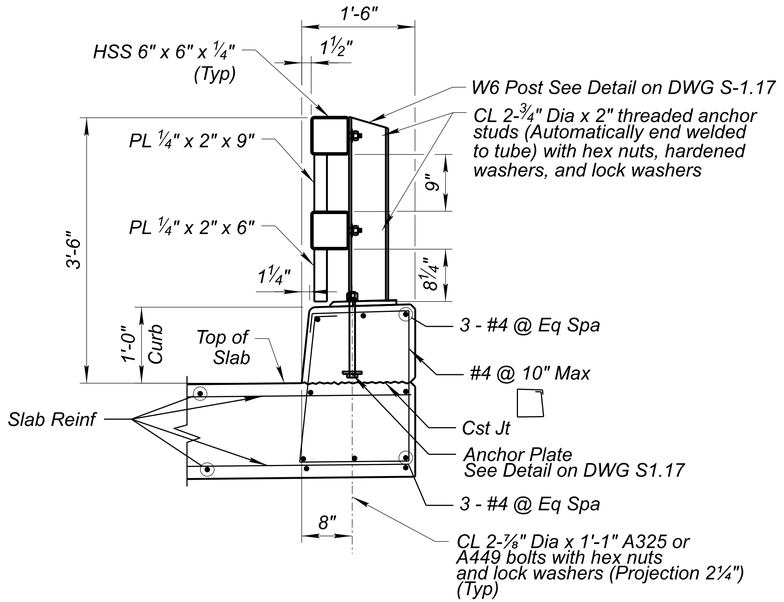
QUINTAAH 7/13/2022 11:33:53 AM c:\pw_workdir\jacobs-us-va-pw-02\dms28944\S0281rd01.dgn \ Model Name: Default



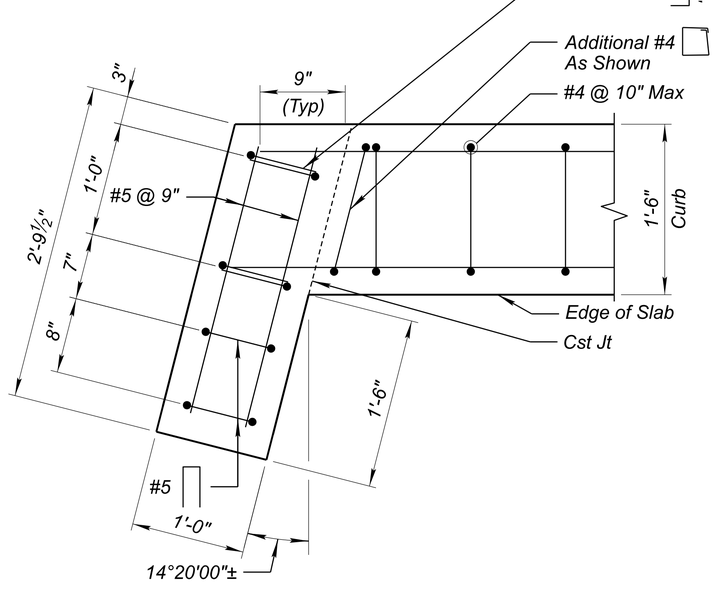
SOUTH RAILING ELEVATION

NOTE:

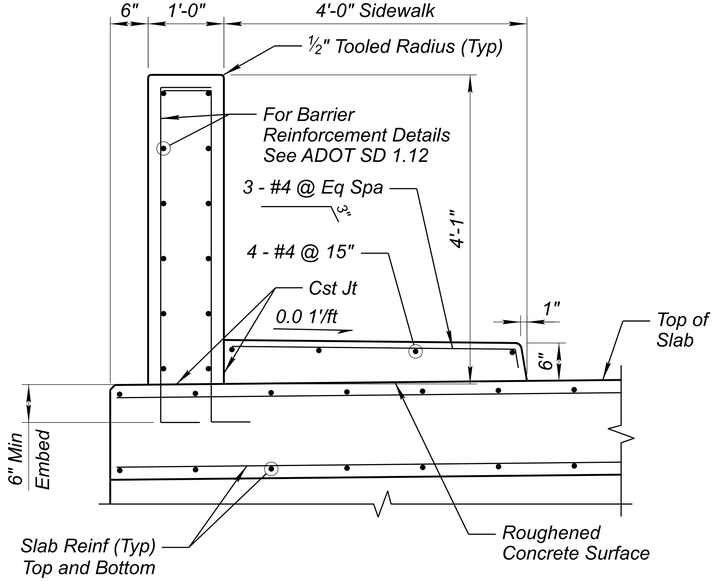
1. For Railing Notes see Drawing S-1.17.



SECTION A --



SECTION B --



SECTION C 1.17 C --

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

BRIDGE RAILING DETAILS 2

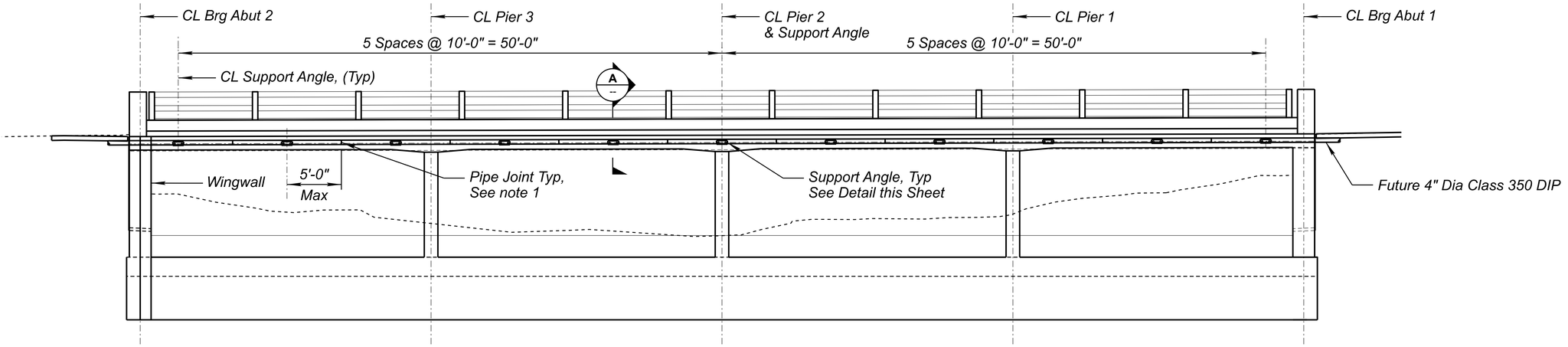
ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division

STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	0000 GI GLB	GLB-0(209)T	38	39	

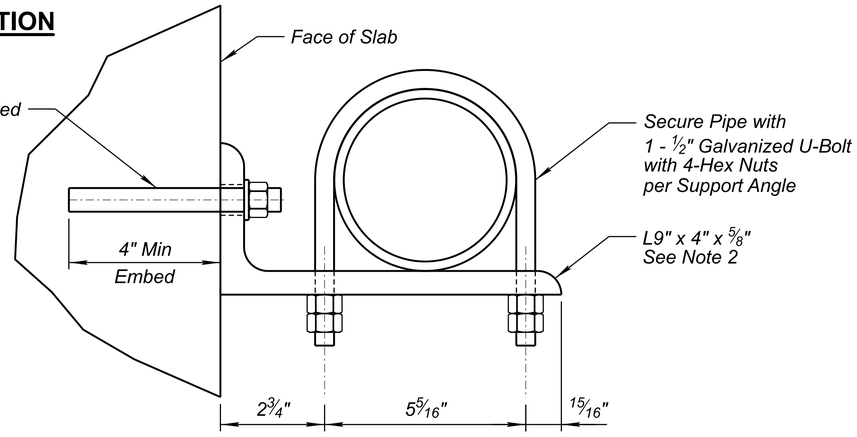
LOCATION: PINAL CREEK BRIDGE
TRACS NO. T0281 01C
DWG NO. S-1.18
___ OF ___

QUINTAAH 7/12/2022 3:44:45 PM c:\pw_workdir\jacobs-us-va-pw-02\dms28944\S0281rd02.dgn \ Model Name: Default



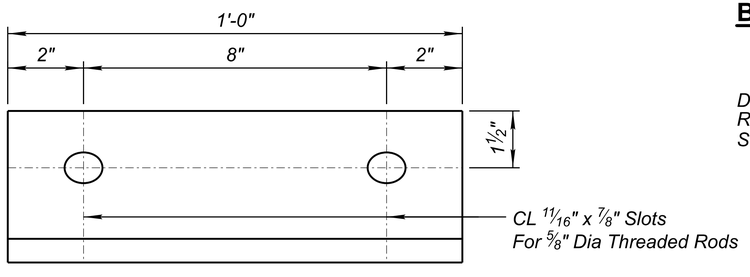
BRIDGE NORTH ELEVATION

N.T.S



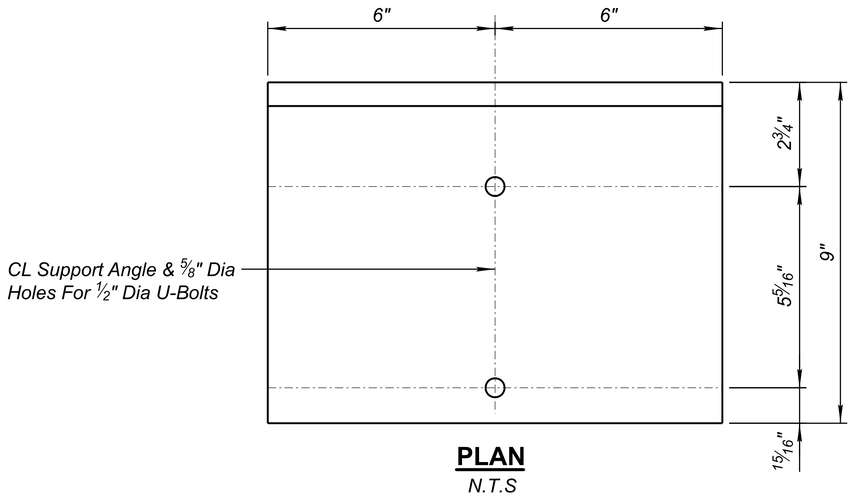
SECTION

Scale 1/16" = 1'-0"



ELEVATION

N.T.S



PLAN

N.T.S

SUPPORT ANGLE DETAILS

N.T.S

Dowel Note:
Drill hole 4" min depth. Hole diameter shall be in accordance with epoxy adhesive manufacturer recommendations. Anchor dowel in hole with an approved epoxy adhesive. Epoxy anchorage shall develop a tensile pullout strength of 5 kips. Details of the anchorage system shall be submitted to the engineer for approval prior to installation.

Notes:

1. *The City will install Victaulic standard flexible couplings at pipe joints.*
2. *All steel angles shall conform to ASTM A36 and galvanized after fabrication in accordance with ASTM A123.*
3. *All threaded rods shall conform to ASTM F1554, grade 36.*
4. *All threaded rods, nuts and washers shall be galvanized in accordance with ASTM A153.*
5. *Cost of supplying and installing threaded rods, hardware, and epoxied fastners are all incidental to the cost of the steel angles (Item 6040003)*

35174 WILLIAM ALFREDO RODRIGUEZ — Registered Professional Engineer — 23MAY'23 — ARIZONA, U.S.A.

	NAME	DATE
DESIGN	F. MOLINA	05/23
DRAWN	C. GRACE	05/23
CHECKED	W. RODRIGUEZ	05/23

Jacobs
1501 W. FOUNTAINHEAD PKWY, SUITE 401
TEMPE, AZ 85282, PH: 480.966.8188, WWW.JACOBS.COM

ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
BRIDGE GROUP

MISCELLANEOUS DETAILS

ROUTE	MILEPOST	STRUCTURE NO.
GLOBE	N/A	11696

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	0000 GI GLB	GLB-0(209)T	39	39	

LOCATION: PINAL CREEK BRIDGE — DWG NO. S-1.19

TRACS NO. T0281 01C — ___ OF ___