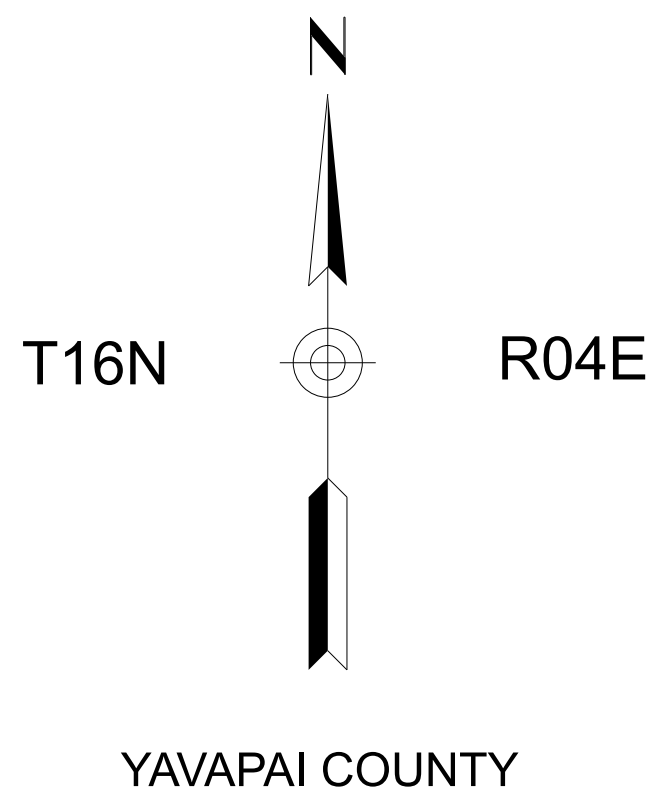
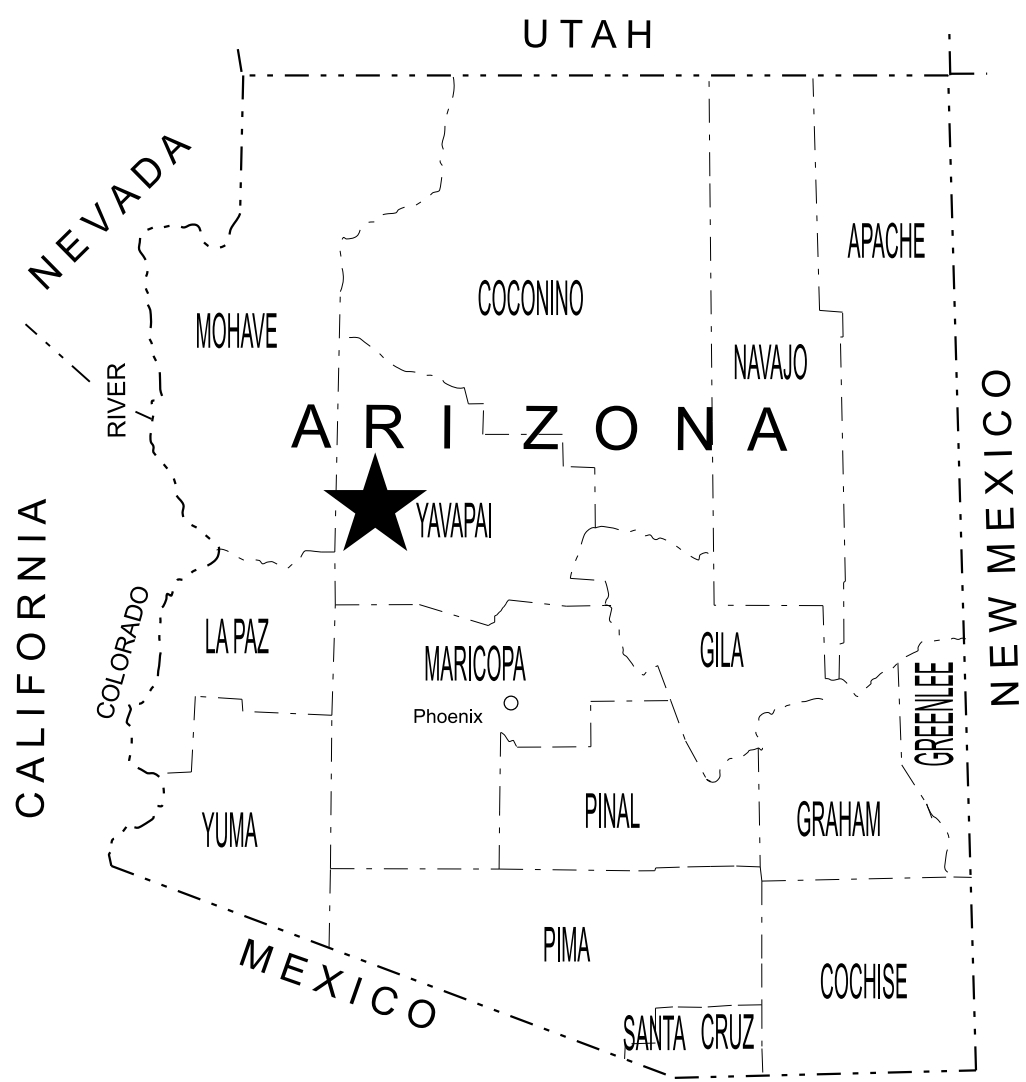




STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
PROJECT DELIVERY AND OPERATIONS DIVISION
PROJECT PLANS



STATE HIGHWAY
PRESCOTT-FLAGSTAFF HIGHWAY
SR 89A



SR 89A AT PAGE SPRINGS ROAD
PROJECT NO. 089A YV 362 F0624 01C
FEDERAL AID NO. A89-B(225)T

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

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

REC. DWGS. DATA	REC. DWG. DATE	OF
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ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE MARCH 2025

DATE	STANDARD	SUBJECT TITLE
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
12/17	C-04.30	SPILLWAY LENGTH TABLE
12/17	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
8/21	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS
12/17	C-10.01	GUARDRAIL INSTALLATION
12/17	C-10.03	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT STEEL POST
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION
4/19	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
4/19	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
4/19	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/19	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
4/21	C-10.23 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
4/21	C-10.23 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SGET
3/25	C-10.24 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
3/25	C-10.24 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR NGT
11/19	C-10.26 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
11/19	C-10.26 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MFLEAT
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK

DATE	STANDARD	SUBJECT TITLE
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
12/17	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
12/17	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
12/17	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
12/17	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
12/17	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
12/17	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
12/17	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 1
12/17	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 2
12/17	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
4/19	C-10.77	CONCRETE BARRIER TRANSITION TO GUARDRAIL END TERMINAL LAYOUT WITH CURB
12/17	C-10.78	CONCRETE HALF-BARRIER TRANSITION, 32" TYPE 'F' LOW SPEED APPROACH
12/17	C-10.79	CONCRETE HALF-BARRIER TRANSITION, 42" TYPE 'F' TANGENT DEPARTURE
5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-12.10 SH 3	FENCE, TYPE 1 AND 2 GATES, FLOOD GATE
5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
8/23	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-13.55	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-15.20 SH 1	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-15.30	CATCH BASIN, TYPE 4
5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
5/12	C-15.40 SH 2	CATCH BASIN, TYPE 5
5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
5/12	C-15.75	CATCH BASIN, DROP INLET
5/12	C-15.80	CATCH BASIN, FLUSH
5/12	C-15.81	CATCH BASIN, SIDE SLOPE
5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
5/12	C-16.40	IRRIGATION SLEEVES
5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
5/12	C-17.20	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
5/12	C-21.20	SURVEY MARKER

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
CONSTRUCTION STANDARDS		NAME	DATE
PROJECT NO.			07/2026
089A YV 362 F0624 01C			1A OF 58
RECORD DRAWING DATA	FEDERAL ID NO. A89-B(225)T	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS

(SHEET 1 OF 2)

EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS
1/20	M-2 SHT 1	INTERSECTION STRIPING
5/15	M-2 SHT 2	INTERSECTION STRIPING (TWO-LANE RURAL)
6/14	M-2 SHT 3	CENTERLINE AND REVERSE CURVE DETAILS
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS
6/14	M-4	PASSING LANE STRIPING DETAILS
6/14	M-5	RAILROAD PAVEMENT MARKINGS
6/14	M-6	WORD MARKINGS
6/14	M-7	PAVEMENT LETTERS
6/14	M-8	PAVEMENT LETTERS
6/14	M-9	PAVEMENT NUMBERS
6/14	M-10 SHT 1	PAVEMENT MARKING SYMBOLS
6/14	M-10 SHT 2	PAVEMENT MARKING SYMBOLS
5/25	M-10 SHT 3	PAVEMENT MARKING SYMBOLS
6/14	M-11	TURN LANE PAVEMENT MARKINGS
6/14	M-12	WRONG-WAY ARROWS
1/19	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS
8/20	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE
8/20	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE
8/20	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - ACCELERATION LANE
8/20	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS - TAPERED DECELERATION LANE
8/20	M-16 SHT 2	PAVEMENT MARKING FOR FREEWAY EXIT RAMP - PARALLEL DECELERATION LANE
8/20	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS
11/24	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
11/24	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS (RPM) FOR UNDIVIDED HIGHWAYS
8/20	M-19 SHT 7	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING
5/15	M-19 SHT 8	LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING
8/20	M-19 SHT 9	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS
6/24	M-19 SHT 10	CONTRAST LANE LINE FOR FREEWAY AND DIVIDED HIGHWAY
10/23	M-19 SHT 11	LEAD-LAG CONTRAST PAVEMENT MARKINGS FOR CONCRETE PAVEMENT

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
6/14	M-20 SHT 1	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-20 SHT 2	CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS
6/14	M-21	TRANSVERSE RUMBLE STRIP DETAILS
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 CROSSEOVERS
2/21	M-27 SHT 2	DELINEATION DETAILS FOR MEDIAN CROSSEOVERS
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			
SIGNING & MARKING STANDARDS		NAME <i>John Linton</i>	DATE 07/2026
PROJECT NO. 089A YV 362 F0624 01C			1B-1 OF 58
RECORD DRAWING DATA	FEDERAL ID NO. A89-B(225)T	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS

(SHEET 2 OF 2)

EFFECTIVE MAY 2025

REVISION DATE	STANDARD NUMBER	SUBJECT : SIGNING AND MARKING DETAILS
4/19	S-1 SHT 1	GENERAL SIGNING NOTES
6/14	S-2 SHT 1	S & W BREAKAWAY POST SELECTION CHART
6/14	S-2 SHT 2	S & W BREAKAWAY POST INSTALLATION DETAILS
6/14	S-3 SHT 1	FLAT SHEET SIGNS SQUARE TUBE POST GENERAL NOTES
6/14	S-3 SHT 2	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 12, 18 AND 24 INCH WIDTHS
6/14	S-3 SHT 3	SINGLE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 30, 36, 42 AND 54 INCH WIDTHS
6/14	S-3 SHT 4	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 36, 42 AND 48 INCH WIDTHS
6/14	S-3 SHT 5	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 54, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 6	TWO POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 7	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 48, 60 AND 72 INCH WIDTHS
6/14	S-3 SHT 8	THREE POST FLAT SHEET RECTANGULAR SIGN ASSEMBLY - 84 - 144 INCH WIDTHS
6/14	S-3 SHT 9	WARNING SIGN ASSEMBLY - SINGLE POST
6/14	S-3 SHT 10	WARNING SIGN ASSEMBLY - TWO POST
6/14	S-3 SHT 11	WARNING SIGN ASSEMBLY - THREE POST
6/14	S-3 SHT 12	MULTIPLE ROUTE MARKER ASSEMBLIES
6/14	S-3 SHT 13	SPECIAL SIGN ASSEMBLIES
6/14	S-3 SHT 14	STRINGER DETAILS FOR SQUARE TUBE POSTS
6/14	S-3 SHT 15	SQUARE TUBE SIGN POST FOUNDATION
6/14	S-3 SHT 16	SQUARE TUBE POST SLIP BASE DETAILS
6/14	S-4	W SHAPE BREAKAWAY POST FUSE PLATE AND HINGE DETAILS
6/22	S-5	W SHAPE BREAKAWAY POST DETAILS
6/22	S-6	S4x7.7 BREAKAWAY POST DETAILS
6/14	S-7 SHT 1	ALUMINUM EXTRUSION SIGN PANEL DETAILS
6/14	S-7 SHT 2	ALUMINUM EXTRUSION AUXILIARY SIGN INSTALLATION DETAILS
5/15	S-7 SHT 3	ALUMINUM EXTRUSION EXIT PANEL INSTALLATION DETAIL
6/14	S-8 SHT 1	FLAT SHEET ALUMINUM PANEL ON BREAKAWAY POSTS INSTALLATION DETAIL
6/14	S-8 SHT 2	ALUMINUM EXTRUSION SIGN TO PERFORATED POSTS INSTALLATION DETAIL
8/22	S-9 SHT 1	SIGN INSTALLATION ON POLE
8/22	S-9 SHT 2	SIGNS (BACK TO BACK) INSTALLATION ON POLE
8/22	S-9 SHT 3	SIGN INSTALLATION ON SIGNAL POLE
8/22	S-9 SHT 4	SIGN INSTALLATION ON POLE BAND-TYPE CLAMP
6/14	S-10	MILEPOST AND REFERENCE LOCATION SIGNS
11/22	S-11 SHT 1	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM
4/19	S-11 SHT 2	TAPERED TUBE SIGN STRUCTURE SINGLE BEAM POST AND BEAM DETAILS

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			
SIGNING & MARKING STANDARDS		NAME <i>ole hinton</i>	DATE 07/2026
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ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE NOVEMBER 2024

REVISION
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STANDARD
NUMBER

SUBJECT :
TRAFFIC SIGNALS AND LIGHTING DETAILS

T.S. 0			ABBREVIATIONS, SYMBOLS AND DEFINITIONS
05/15	0-1		STANDARD ABBREVIATIONS
01/12	0-2	SHT 1	PLAN SYMBOLS
01/12	0-2	SHT 2	PLAN SYMBOLS
01/12	0-2	SHT 3	PLAN SYMBOLS
03/10	0-3	SHT 1	STANDARD DEFINITIONS
03/10	0-3	SHT 2	STANDARD DEFINITIONS
11/22	0-4		REFERENCE DOCUMENTS AND GENERAL REQUIREMENTS
T.S. 1			PULL BOXES
09/11	1-1	SHT 1	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 PULL BOX
09/11	1-1	SHT 2	LIGHT DUTY - LIGHT WEIGHT NO. 5 AND NO. 7 SLOPE WALL BODY PULL BOX DETAILS
03/15	1-2		HEAVY DUTY NO. 5 AND NO. 7 STRAIGHT BODY WALL PULL BOX DETAILS
09/11	1-3		REPLACEMENT LID SIZING FOR EXISTING NO. 5 AND NO. 7 PULL BOXES
09/11	1-4	SHT 1	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4	SHT 2	TYPICAL PULL BOX INSTALLATION AND WIRING DETAILS
09/11	1-4	SHT 3	TYPICAL PULL BOX INSTALLATION DETAILS
09/11	1-5	SHT 1	ELECTRICAL CONDUIT COVER AND TRENCH REQUIREMENTS
09/11	1-5	SHT 2	CONDUIT EXPANSION COUPLINGS
09/11	1-6		CONDUCTOR REQUIREMENTS
03/10	1-7		TRAFFIC SIGNAL IMSA CABLE COLOR CODES
09/11	1-8	SHT 1	FRONT OF BARRIER JUNCTION BOX
09/11	1-8	SHT 2	BACK OF BARRIER JUNCTION BOX
09/11	1-9		TOP OF BARRIER JUNCTION BOX DETAILS
09/11	1-10		TOP OF BARRIER JUNCTION BOX DETAILS
10/13	1-11	SHT 1	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
10/13	1-11	SHT 2	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX
03/15	1-11	SHT 3	HEAVY DUTY LIGHTING NO. 4 AND NO. 6 PULL BOX LID
03/15	1-12	SHT 1	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
03/15	1-12	SHT 2	PRECAST HEAVY DUTY LIGHTING NO. 4B AND NO. 6B PULL BOX
T.S. 2			FOUNDATIONS
03/10	2-1		FOUNDATION FOR TYPE II LOAD CENTER CABINET
03/10	2-2		FOUNDATION FOR TYPE IV LOAD CENTER CABINET
03/10	2-3		FOUNDATION FOR TYPE III CONTROL CABINET
03/10	2-4		FOUNDATION FOR TYPE IV AND V CONTROL CABINETS
03/10	2-5		FOUNDATION FOR TYPE 340 CONTROL CABINET
03/10	2-6		METER PEDESTAL CABINET FOUNDATION AND BASE
03/15	2-7		TRAFFIC SIGNAL UPS CABINET FOUNDATION DETAIL
T.S. 3			CABINETS
12/12	3-0		NOTES FOR TYPE II AND IV LOAD CENTER CABINETS
03/10	3-1		TYPE II LOAD CENTER CABINET
03/10	3-2		TYPE IV LOAD CENTER CABINET
03/10	3-3		TYPE II OR IV LOAD CENTER CABINET WIRING DETAILS 240/480 3W W/DISCONNECT
03/10	3-4	SHT 1	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-4	SHT 2	PHOTO ELECTRIC CELL MOUNTING DETAILS
03/10	3-5	SHT 1	TYPE I AND II METER PEDESTAL CABINET
12/12	3-5	SHT 2	METER PEDESTAL CABINET
03/10	3-6		TYPE III CONTROL CABINET
03/10	3-7		POLE MOUNTED TYPE III CONTROL CABINET
03/10	3-8	SHT 1	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-8	SHT 2	POLE MOUNT DETAILS FOR TYPE III CONTROL CABINET
03/10	3-9	SHT 1	TYPE IV AND V CONTROL CABINET NOTES
03/10	3-9	SHT 2	TYPE IV CONTROL CABINET
03/10	3-9	SHT 3	TYPE V CONTROL CABINET
03/10	3-10		CABINET EXTENSION OR ELEVATOR BASE
03/10	3-11		CONTROL CABINET MOUNTED SERVICE ENCLOSURE
03/10	3-12	SHT 1	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-12	SHT 2	120/240 OR 240/480 VOLT, SINGLE PHASE UTILITY PULL SECTION AND SERVICE DISCONNECT DETAILS
03/10	3-13	SHT 1	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13	SHT 2	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET DETAILS
03/10	3-13	SHT 3	TRAFFIC SIGNALS AND LIGHTING MODEL 345 CABINET CAGE DETAILS

REVISION
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SUBJECT :
TRAFFIC SIGNALS AND LIGHTING DETAILS

T-SL. 4			POLES AND POSTS
11/22	4.01		TYPE A POLE
11/22	4.02		TYPE S POLE
11/22	4.03		TYPE T POLE
11/22	4.04		TYPE S AND TYPE T STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS
11/22	4.05		ALUMINUM TYPE S POLE
11/22	4.06		ALUMINUM TYPE T POLE
11/22	4.07		TYPE G POLE
11/22	4.08		ALUMINUM TYPE G POLE
11/22	4.09		ALUMINUM TYPE H POLE
11/22	4.10		ALUMINUM TYPE I POLE
11/22	4.11		GENERAL NOTES FOR TRAFFIC SIGNALS AND LIGHTING POLES WITH MAXIMUM LOADING CASE
04/19	4.12		TYPE J POLES (25-J, 30-J, 35-J, AND 40-J) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH
04/19	4.13		TYPE Q POLES (25-QL, 30-QL, 35-QL, AND 40-QL) WITH 25 FT TO 40 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
04/19	4.14		TYPE K POLES (45-K, 50-K, AND 55-K) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH
04/19	4.15		TYPE R POLES (45-RL, 50-RL, AND 55-RL) WITH 45 FT TO 55 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
11/22	4.16		TYPE V POLES (60-V AND 65-V) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH
11/22	4.17		TYPE W POLES (60-WL AND 65-WL) WITH 60 FT TO 65 FT MAST ARM SPAN LENGTH WITH LUMINAIRES
11/22	4.18		POLE HAND HOLE DETAILS
11/22	4.19		TYPE U POLE (ELLIPTICAL BASE) DETAILS
11/22	4.20		TYPE U POLE (ROUND POLE WITH SQUARE BASE) NOTES
04/19	4.21		TYPE U POLE (ROUND POLE WITH SQUARE BASE) FOUNDATION DETAILS
04/19	4.22		TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 1
04/19	4.23		TYPE U POLE (ROUND POLE WITH SQUARE BASE) DEATILS 2
04/19	4.24		TYPE U POLE (ROUND POLE WITH SQUARE BASE) PIPE TENON DETAILS
04/19	4.25		TYPE U POLE (ROUND POLE WITH SQUARE BASE) TWIN LUMINAIRE BRACKET DETAILS
04/19	4.26		EQUIPMENT MOUNTING HEIGHT DETAILS
04/19	4.27		PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"
11/22	4.28		POLE FOUNDATION ANCHOR BOLTS
04/19	4.29		STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'
04/19	4.30		ALUMINUM TRUSS MAST ARM DETAILS FOR TYPE G, H, AND I POLES
04/19	4.31		SIGNAL MAST ARM TENON DETAIL
04/19	4.32		TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
11/22	4.33		STEEL ADAPTER PLATE FOR 30 FT ALUMINUM TYPE "G" OR TYPE "S" LIGHT POLES
T.S. 5			POLE BASES - SPECIAL
11/24	5-0		TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES
04/19	5-1		TYPE 2 CAST ALUMINUM BREAK-AWAY BASE
04/19	5-2		TYPE 3 CAST ALUMINUM BREAK-AWAY BASE
05/21	5-3		INSTALLATION DETAILS FOR POLE FOUNDATIONS WITH TYPE 2 AND 3 BREAK-AWAY BASES
T.S. 6			HIGHWAY TRAFFIC DATA DETECTORS
03/10	6-1		TYPE C VEHICLE DETECTOR LOOPS FOR TRAFFIC COUNTERS
03/10	6-2	SHT 1	TYPE SA AND SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2	SHT 2	TYPE SA SPEED/VEHICLE CLASSIFICATION SYSTEMS
03/10	6-2	SHT 3	TYPE SB SPEED/VEHICLE CLASSIFICATION SYSTEMS
12/12	6-3		PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
12/12	6-4	SHT 1	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
12/12	6-4	SHT 2	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/15	6-4	SHT 3	DETAIL A PIEZOELECTRIC SENSOR DETAILS
12/12	6-4	SHT 4	DETAIL B DETECTOR LOOP DETAILS
12/12	6-4	SHT 5	DETECTOR LOOPS AND PIEZOELECTRIC SENSOR DETAILS
03/10	6-5		MICROLOOPS FOR SPEED/VEHICLE CLASSIFICATION
03/10	6-6		QUARTZ PIEZOELECTRIC WEIGHT SENSOR AND LOOP LANE LAYOUT
03/10	6-7		TRAFFIC DATA COLLECTION CABINET INSTALLATION DETAILS
03/10	6-8		TYPE MPD CABINET POLE, BASE AND FOUNDATION INSTALLATION DETAILS

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
TRAFFIC SIGNAL & LIGHTING STANDARDS		NAME <i>ole hester</i>	DATE 07/2026
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TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE NOVEMBER 2024

REVISION DATE	STANDARD NUMBER	SUBJECT : TRAFFIC SIGNALS AND LIGHTING DETAILS
	T.S. 7	TRAFFIC SIGNAL DETECTORS
03/10	7-1 SHT 1	LOOP DETECTOR LOCATION SAWCUT PATTERNS AND INSTALLATION DETAILS
03/10	7-1 SHT 2	SAW CUT AND CORING DETAILS
03/15	7-1 SHT 3	SAW CUT AND CORING DETAILS
03/10	7-1 SHT 4	TYPICAL DETECTOR LOOP LEAD-IN ROAD TO PULL BOX DETAIL
03/10	7-1 SHT 5	LOOP DETECTOR LOCATION AND INSTALLATION DETAILS
03/10	7-2	PRE-FORMED LOOP DETECTORS FOR RAMP METERING AND COUNTING
03/10	7-3	PRE-FORMED LOOP DETECTORS IN BRIDGE DECK
03/10	7-4	PRE-FORMED LOOP DETECTORS IN PCCP
03/10	7-5	TYPICAL PRE-FORMED LOOP DETECTOR STUB-OUT DETAIL
	T.S. 8	SIGNAL ASSEMBLIES
12/23	8-0	TRAFFIC SIGNAL VEHICLE FACE ASSEMBLY REQUIREMENTS AND DETAILS
12/23	8-1	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
12/23	8-2	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
10/13	8-4 SHT 1	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION
01/12	8-4 SHT 2	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES
01/12	8-4 SHT 3	VEHICLE TRAFFIC SIGNAL HOUSING/SECTION DETAILS
03/10	8-4 SHT 4	VISORS FOR 8-INCH AND 12-INCH VEHICLE TRAFFIC SIGNAL FACE ASSEMBLIES
01/12	8-5	FLASHING BEACON SIGNAL FACE ASSEMBLY
01/12	8-6	LED LAMP FOR PROGRAMMED VISIBILITY SIGNAL
01/12	8-7 SHT 1	PEDESTRIAN SIGNAL ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-7 SHT 2	PEDESTRIAN SIGNAL ASSEMBLY HOUSING
01/12	8-7 SHT 3	PEDESTRIAN SIGNAL ASSEMBLY VISOR
	T.S. 9	MOUNTING ASSEMBLIES - SIGNAL
03/10	9-0 SHT 1	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-0 SHT 2	MOUNTING ASSEMBLY GENERAL REQUIREMENTS
03/10	9-1	TYPE I AND II MOUNTING ASSEMBLIES
03/10	9-2	TYPE III AND IV MOUNTING ASSEMBLIES
10/13	9-3	TYPE V MOUNTING ASSEMBLY
03/10	9-4	TYPE VI MOUNTING ASSEMBLY
03/10	9-5	TYPE VII MOUNTING ASSEMBLY
03/10	9-6	TYPE VIII MOUNTING ASSEMBLY
03/10	9-7	TYPE IX MOUNTING ASSEMBLY
03/10	9-8	TYPE X MOUNTING ASSEMBLY
03/10	9-9	TYPE XI MOUNTING ASSEMBLY
	T.S. 10	MOUNTING CASTINGS - SIGNAL
03/10	10-1	MISCELLANEOUS SIGNAL MOUNTING PARTS
03/10	10-2	MAST ARM SIGNAL MOUNTING PLUMBIZER
03/10	10-3	SIGNAL MOUNTING POLE PLATE DETAILS
03/10	10-4	TERMINAL COMPARTMENT, SIDE MOUNTED AND POLE TOP MOUNTED
	T.S. 11	PEDESTRIAN DETAILS
03/15	11-1	TYPE I PEDESTRIAN PUSH BUTTON HOUSING ASSEMBLY
03/15	11-2	CAN STYLE PEDESTRIAN PUSH BUTTON
	T.S. 12	FLASHERS
03/10	12-1 SHT 1	ADVANCE WARNING FLASHER POLE DETAIL
03/10	12-1 SHT 2	ADVANCE WARNING FLASHER POLE SIGN MOUNTING DETAILS
03/10	12-1 SHT 3	ADVANCE WARNING FLASHER POLE DETAIL
	T.S. 13	ILLUMINATION - SIGNS
03/10	13-1	SIGN LIGHTING DETAIL FOR TUBULAR SIGN STRUCTURES
03/10	13-2	FUSE PANEL DETAILS FOR SIGN LIGHTING
03/15	13-3	PLACEMENT OF LIGHTING FIXTURES FOR OVERHEAD SIGNS
	T.S. 14	ILLUMINATION - SPECIAL
03/10	14-1 SHT 1	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 2	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-1 SHT 3	HIGH PRESSURE SODIUM (HPS) LAMPS
03/10	14-2	PEDESTRIAN BRIDGE LIGHTING DETAILS

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

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
		NAME	DATE
TRAFFIC SIGNAL AND LIGHTING STANDARDS		<i>ole hinton</i>	07/2026
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ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS
EFFECTIVE NOVEMBER 2024

DATE	STANDARD	SUBJECT TITLE
RAILINGS		
09/24	SD 1.10 (1 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
09/24	SD 1.10 (2 OF 2)	38" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (1 OF 1)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
10/24	SD 1.11 (2 OF 2)	42" SINGLE SLOPE BRIDGE BARRIER AND TRANSITION
06/23	SD 1.12	COMBINATION PEDESTIAN-TRAFFIC BRIDGE RAILING
01/20	SD 1.13	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.12
01/20	SD 1.20	32' TYPE F ROADWAY BARRIER TRANSITION TO 38' SINGLE SLOPE BARRIER
01/20	SD 1.21	32' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.22	42' TYPE F ROADWAY BARRIER TRANSITION TO 42' SINGLE SLOPE BARRIER
01/20	SD 1.30	BARRIER JUNCTION BOX
APPROACHES		
08/23	SD 2.01	APPROACH SLAB DETAILS
08/23	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
08/23	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
08/23	SD 2.04	SLOPE PAVING DETAILS
DECK JOINTS		
02/20	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
02/20	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
02/20	SD 3.03 (1 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
02/20	SD 3.03 (2 OF 2)	DECK JOINT ASSEMBLY - FLANGELESS STRIP SEAL
SUBSTRUCTURE		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
DRAINAGE STRUCTURES		
05/15	SD 6.01 (1 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (2 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
02/12	SD 6.01 (3 OF 5)	REINFORCED CONCRETE BOX CULVERTS - EXTENSION DETAILS
02/12	SD 6.01 (4 OF 5)	REINFORCED CONCRETE BOX CULVERTS - STRUCTURAL EXCAVATION & STRUCTURE BACKFILL
05/15	SD 6.01 (5 OF 5)	REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL (0'-30' FILLS)
05/15	SD 6.02 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (0'-15' FILLS)
05/15	SD 6.02 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (15'-30' FILLS)
05/15	SD 6.03 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (0'-15' FILLS)
05/15	SD 6.03 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (15'-30' FILLS)
05/15	SD 6.04 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (0'-15' FILLS)
05/15	SD 6.04 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (15'-30' FILLS)
05/15	SD 6.05 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (0'-15' FILLS)
05/15	SD 6.05 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (15'-30' FILLS)
05/15	SD 6.06 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (0'-15' FILLS)
05/15	SD 6.06 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (15'-30' FILLS)
02/12	SD 6.07	REINFORCED CONCRETE BOX CULVERTS - 16'x 14' EQUIPMENT PASS (0'-20' FILLS)
05/15	SD 6.08 (1 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (2 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (3 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (4 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (5 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (6 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.08 (7 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3'to 7'
02/12	SD 6.08 (8 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8'to 12'
05/15	SD 6.09 (1 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 2 :1 SLOPE
05/15	SD 6.09 (2 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 4 :1 SLOPE
05/15	SD 6.09 (3 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 6 :1 SLOPE
05/15	SD 6.10 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 3'to 7'
02/12	SD 6.10 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 8'to 12'
02/12	SD 6.11 (1 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON DETAILS
05/15	SD 6.11 (2 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (2 :1 SLOPE)
05/15	SD 6.11 (3 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (4 :1 SLOPE)
05/15	SD 6.11 (4 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (6 :1 SLOPE)
10/24	SD 6.20 (1 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL NOTES & DIMENSIONS
10/24	SD 6.20 (2 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 1
10/24	SD 6.20 (3 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - END SECTION & CONNECTION DETAILS
10/24	SD 6.20 (4 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 2
10/24	SD 6.20 (5 OF 5)	PRECAST REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS 3
07/12	SD 6.30 (1 OF 5)	PIPE CULVERT HEADWALLS - MISCELLANEOUS DETAILS
07/12	SD 6.30 (2 OF 5)	PIPE CULVERT HEADWALLS - INLET AND OUTLET - 18" to 42" PIPES
07/12	SD 6.30 (3 OF 5)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (4 OF 5)	PIPE CULVERT HEADWALLS - SKEWED INLET AND OUTLET - 48" to 84" PIPES
07/12	SD 6.30 (5 OF 5)	PIPE CULVERT HEADWALLS - MULTI-PIPE - 48" to 84" PIPES
07/12	SD 6.31 (1 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET
07/12	SD 6.31 (2 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 2 :1 SLOPE
07/12	SD 6.31 (3 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 4 :1 SLOPE
07/12	SD 6.31 (4 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 6 :1 SLOPE
07/12	SD 6.31 (5 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET
07/12	SD 6.31 (6 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 2 :1 SLOPE
07/12	SD 6.31 (7 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 4 :1 SLOPE
07/12	SD 6.31 (8 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 6 :1 SLOPE
07/12	SD 6.32 (1 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET
07/12	SD 6.32 (2 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.32 (3 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.32 (4 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.32 (5 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET
07/12	SD 6.32 (6 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.32 (7 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.32 (8 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 6 :1 SLOPE

DATE	STANDARD	SUBJECT TITLE
DRAINAGE STRUCTURES (Continued)		
07/12	SD 6.33 (1 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET
07/12	SD 6.33 (2 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.33 (3 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.33 (4 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.33 (5 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET
07/12	SD 6.33 (6 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.33 (7 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.33 (8 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 6 :1 SLOPE
07/12	SD 6.34 (1 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET
07/12	SD 6.34 (2 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 2 :1 SLOPE
07/12	SD 6.34 (3 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 4 :1 SLOPE
07/12	SD 6.34 (4 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 6 :1 SLOPE
07/12	SD 6.34 (5 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET
07/12	SD 6.34 (6 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 2 :1 SLOPE
07/12	SD 6.34 (7 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 4 :1 SLOPE
07/12	SD 6.34 (8 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 6 :1 SLOPE
07/12	SD 6.35 (1 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITHOUT APRON
07/12	SD 6.35 (2 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITH OUTLET APRON
07/12	SD 6.36 (1 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRONS
07/12	SD 6.36 (2 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 2 :1 SLOPE
07/12	SD 6.36 (3 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 4 :1 SLOPE
07/12	SD 6.36 (4 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 6 :1 SLOPE
RETAINING WALLS		
10/24	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
12/21	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
12/21	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
06/22	SD 8.01	SOUND BARRIER WALL (CONCRETE)
06/22	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
06/22	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
04/19	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
03/22	SD 9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
04/19	SD 9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
03/22	SD 9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
04/19	SD 9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
04/19	SD 9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
09/23	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
04/19	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
04/19	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
09/23	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
04/19	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
09/23	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
04/19	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
04/19	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
09/23	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
04/19	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
04/19	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
04/19	SD 9.52 (1 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.52 (2 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (3 OF 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.52 (4 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
04/19	SD 9.52 (5 OF 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
04/19	SD 9.53 (1 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
04/19	SD 9.53 (2 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (3 OF 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
04/19	SD 9.53 (4 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
04/19	SD 9.53 (5 OF 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS
05/22	SD 9.60 (1 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - GENERAL PLAN AND ELEVATION
05/22	SD 9.60 (2 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - FOUNDATION DETAILS
05/22	SD 9.60 (3 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MONOTUBE ASSEMBLY
05/22	SD 9.60 (4 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - DMS MAST ARM DETAILS
05/22	SD 9.60 (5 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - MISCELLANEOUS DETAIL
05/22	SD 9.60 (6 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK ASSEMBLY AND HANDRAIL
05/22	SD 9.60 (7 OF 7)	DYNAMIC MESSAGE SIGN (BUTTERFLY) - CATWALK DETAILS

ADOT STANDARD DRAWINGS REVISION DATES and STANDARD NO.'s REVIEW			
STRUCTURES STANDARDS		NAME	DATE
PROJECT NO.		<i>ole hinton</i>	07/2026
089A YV 362 F0624 01C		1D	OF 58
RECORD DRAWING DATA	FEDERAL ID NO. A89-B(225)T	REC. DWG. DATE	OF

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

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

2. **SURFACE WATER POLLUTION PREVENTION – CWA SECTION 402**

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

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

☒ No Permit Required; Refer to Section 104.16 (D) of the Standard Specifications for General Requirements

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

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

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

The contractor shall avoid nests with relocation directions.

BIO-2A: General Seasonal Restrictions for MBTA, refer to seasonal dates in EPIC and general requirements in 104.16(E) of the Standard Specifications.

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

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

BIO-3: Burrowing Owls ☒ N/A

BIO-4: Bats ☒ N/A

BIO-5: Sonoran Desert Tortoise ☒ No ☐ Yes

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

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

☒ Noxious Species Control Plan (NSCP) required

6. **CULTURAL RESOURCES PROGRAM**

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

☐ **Training** needed for cultural resources, refer to Section 10 of the EPIC Sheet and/or Section 104.17 of the Special Provisions for detailed instructions.

☒ **Fencing** needed for cultural resources, refer to Section 10 of the EPIC Sheet and Section 104.17 of the Special Provisions for detailed instructions.

☐ **Qualified Monitor** needed, Pre-construction coordination required with qualified archaeologist regarding construction schedule and associated monitoring efforts.

☒ **Avoid** all fenced and/or otherwise designated sensitive resource areas within or adjacent to the project area as indicated on plan sheets and/or in Section 10 of the EPIC Sheet.

☐ **Data recovery** needed, refer to Section 10 of the EPIC sheet for detailed instructions.

7. **HAZARDOUS MATERIALS PROGRAM**

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

☒ No Hazardous Materials Program Action Required

8. **NOISE PROGRAM**

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

9. **AIR QUALITY PROGRAM**

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

10. **OTHER ENVIRONMENTAL ISSUES**

Project Specific Environmental Commitments: ☐ N/A

- For milling activities, the roadway surface preceding the milling machine shall be kept sufficiently wet so as to prevent the generation of any visible fugitive dust particles, but not so wet as to cause excess runoff from the roadway surface onto the roadway shoulder.

- The contractor shall avoid all flagged and/or otherwise designated avoidance areas within or adjacent to the following location:

- MP 362.67 to MP 362.70 on the west side of SB 89A

Arizona Department of Transportation Environmental Planning Standard Template				
Environmental, Permits, Issues, And Commitments (EPIC) Sheet				
Environmental Planner Name		Tatum Wertin	R.E. Name	
Environmental Planning Date of Completion		8/22/2025	R.E. Signature	
FEDERAL ID NO.	A89-B(225)T			
PROJECT NO.	089A YV F0624 01C			
			With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed.	
REC DWG DATE: _____ OF _____			__1F__ OF __58__	Sheet 1F

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G-02.01 - G-02.03
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G-05.01
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ADOT Standard Drawings
E.P.I.C Sheet
Index of Sheets and Design Data
Typical Sections and Pavement Structural Sections
New Pipe Summary
CSP Pipe Extension Summary
RCBC and RCBC Extension Summary
Roadway Details

Culvert Plan and Profile
Drainage Details

Survey Control & Control Point Data
Geometric Layout & Data
SR 89A Roadway Plan

Traffic Control Construction Activity
Traffic Control Notes and Legend & Quantities
Traffic Control Advance Signing Detail
Traffic Control Detour Plan
Signing General Notes & Quantities
Pavement Marking General Notes & Quantities
Removal Sign Summaries
Sign Summaries
Sign Removals Plan
Signing & Pavement Marking Plan
Sign Formats
Lighting Notes & Legend
Lighting Plans & Lighting Schedules

Control Measure Index Sheet
Erosion/Sediment Control Details

MP 362.25 to MP 362.98
SR 89A Design Speed = 65 MPH
U-TURN Design Speed = 20 MPH

LENGTH OF PROJECT

Exst SR 89A SB and NB Cst CL

Roadway Construction
SB: Sta 505+40.00 to Sta 534+00.00
NB: Sta 508+35.18 to Sta 543+43.00

SB: Gross and Net Length = 2,860.00'
NB: Gross and Net Length = 3,507.82'

SR 89A SB MP 362.18 to MP 362.73 = 0.55 Miles
SR 89A NB MP 362.24 to MP 362.91 = 0.67 Miles

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
(NAD 83/92)

GAF=1.00028
X=700,186.01
Y=1,380,412.87

REFERENCES

STBG-89A-B(220)T
ACSTP-BR-366(39)P

EARTHWORK QUANTITIES

> Roadway Excavation2,229 CY

> Roadway Overexcavation5,730 CY

Pipe Excavation61 CY

> Structural Excavation140 CY

> Drainage Excavation699 CY

Sub Total Excavation8,859 CY

Total Shrinkage886 CY

> AC Pavement Removal *782 CY

Total Excavation Available for Embankment7,973 CY

Roadway Embankment4,325 CY

> Roadway Overexcavation5,730 CY

Pipe Backfill27 CY

> Structure Backfill193 CY

Ground Compaction169 CY

Total Embankment Need10,224 CY

> Total Borrow (In Place)2,251 CY

EARTHWORK FACTORS

Shrinks/SwellGround Compaction

10% Shrink0.10'

Pay Item

* Existing AC Pavement available for Roadway Embankment per Specifications. Roadway Excavation and Embankment quantities have been adjusted for removal of AC Pavement. Thickness of Existing AC Pavement assumed to be 5" for this volume calculation.

75741
COLE
LASTOVICA

7/27/2008

ARIZONA

REGISTERED PROFESSIONAL ENGINEER (CIVIL)

CERTIFICATE NO. 75741

DESIGNZSZ07/26

DRAWNRM07/26

CHECKEDJPM07/26

3133 East Camelback Road, Suite 100
Phoenix, Arizona 85016
Phone: (602) 335-2200

Stanley Consultants INC.

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

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

ARIZ.

LOCATION

SR89A AT PAGE SPRINGS ROAD

TRACS NO. F0624 01C

STATE

PROJECT NO.

FEDERAL ID NO.

SHEET NO.

TOTAL SHEETS

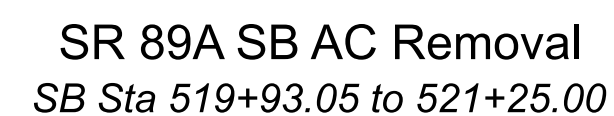
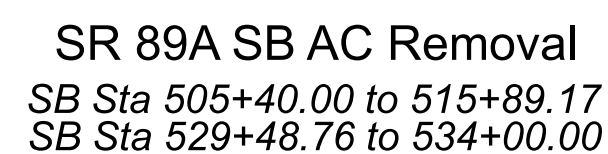
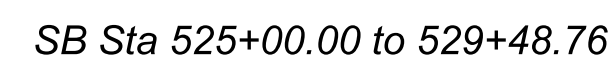
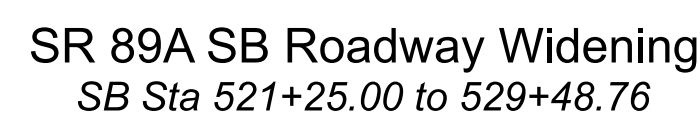
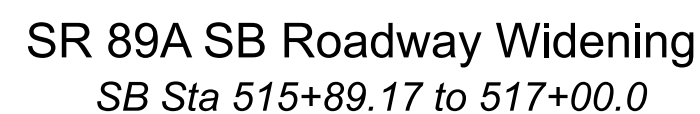
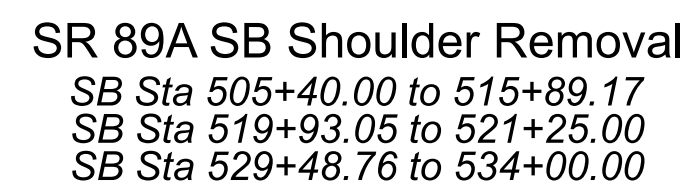
RECORD DRAWING

INDEX OF SHEETS & DESIGN DATA

DWG NO. G-01.01

OF

E::\lics_workingdir\216911\1343899_24\10624_ds01.dgn \ Model Name: F0635_Index Sheet



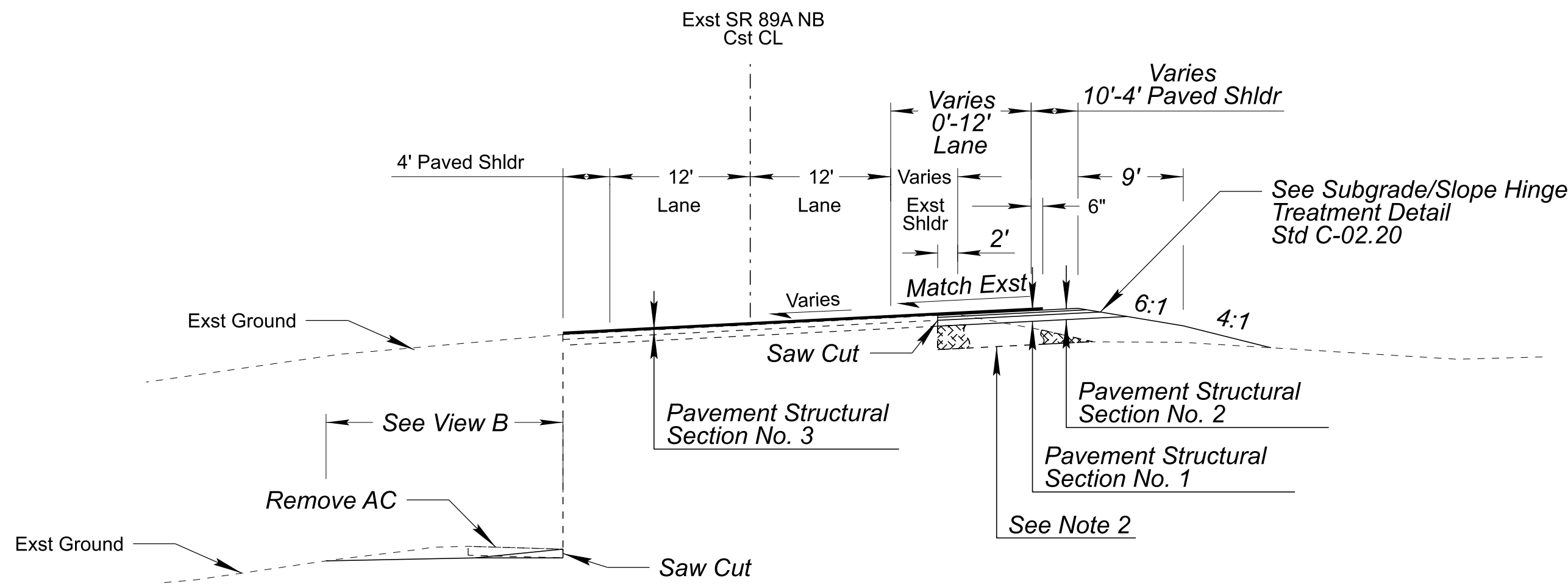
1. AB Depth shall match the existing AC Pavement Thickness at Saw Cut and Taper Depth to Hinge Point.
2. Unsuitable material shall not be placed within 3 feet of the finished subgrade. Overexcavate existing material to a depth of 3 feet below finished subgrade and replace with borrow material meeting a minimum R-value of 20. This work is included in the 2030301 and 2030302 pay items, no separate measurement or payment will be made.
3. AR-ACFC milling is measured and paid for under item no. 2020075 per unit square yard.

	NAME	DATE
DESIGN	ZSZ	07/26/2016
DRAWN	RM	07/26/2016
CHECKED	CML	07/26/2016


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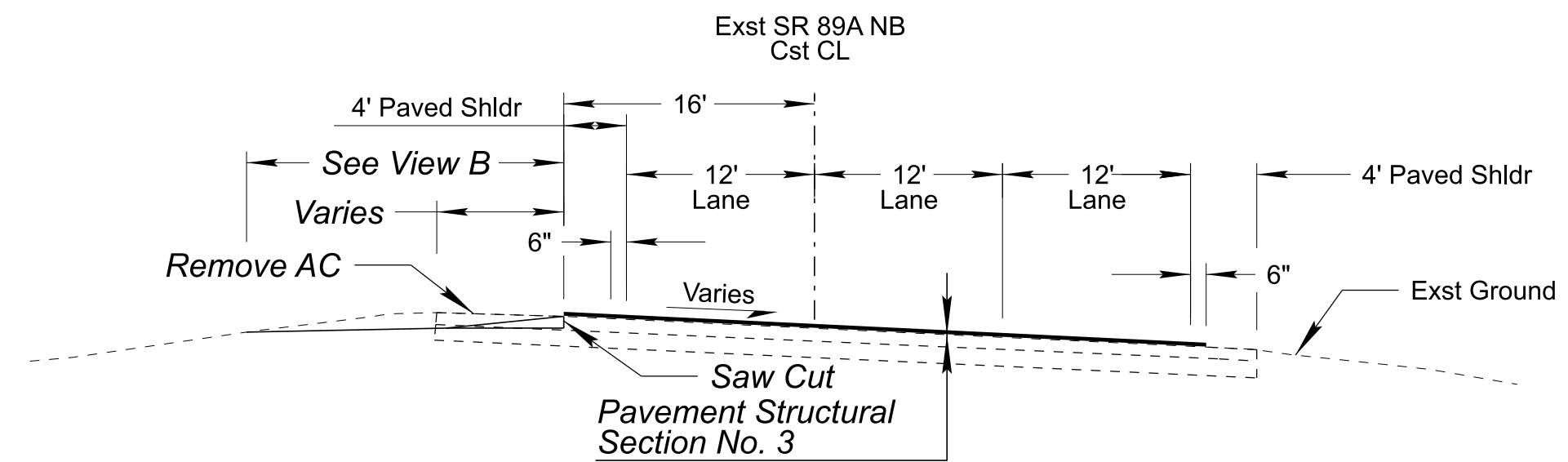
Stanley Consultants INC.

ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	3	58	
	STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD						DWG NO. G-02.01
TYPICAL SECTIONS PAVEMENT STRUCTURAL SECTIONS		LOCATION TRACS NO. F0624 01C						OF

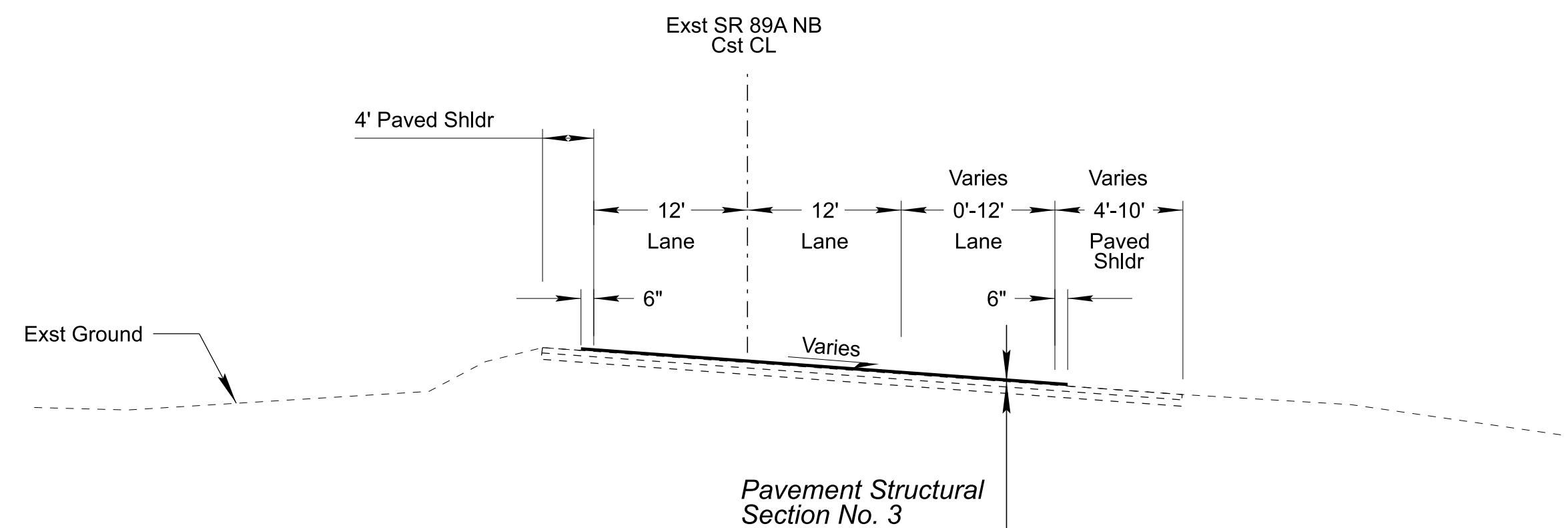


NB Sta 517+11.71 to 518+31.48

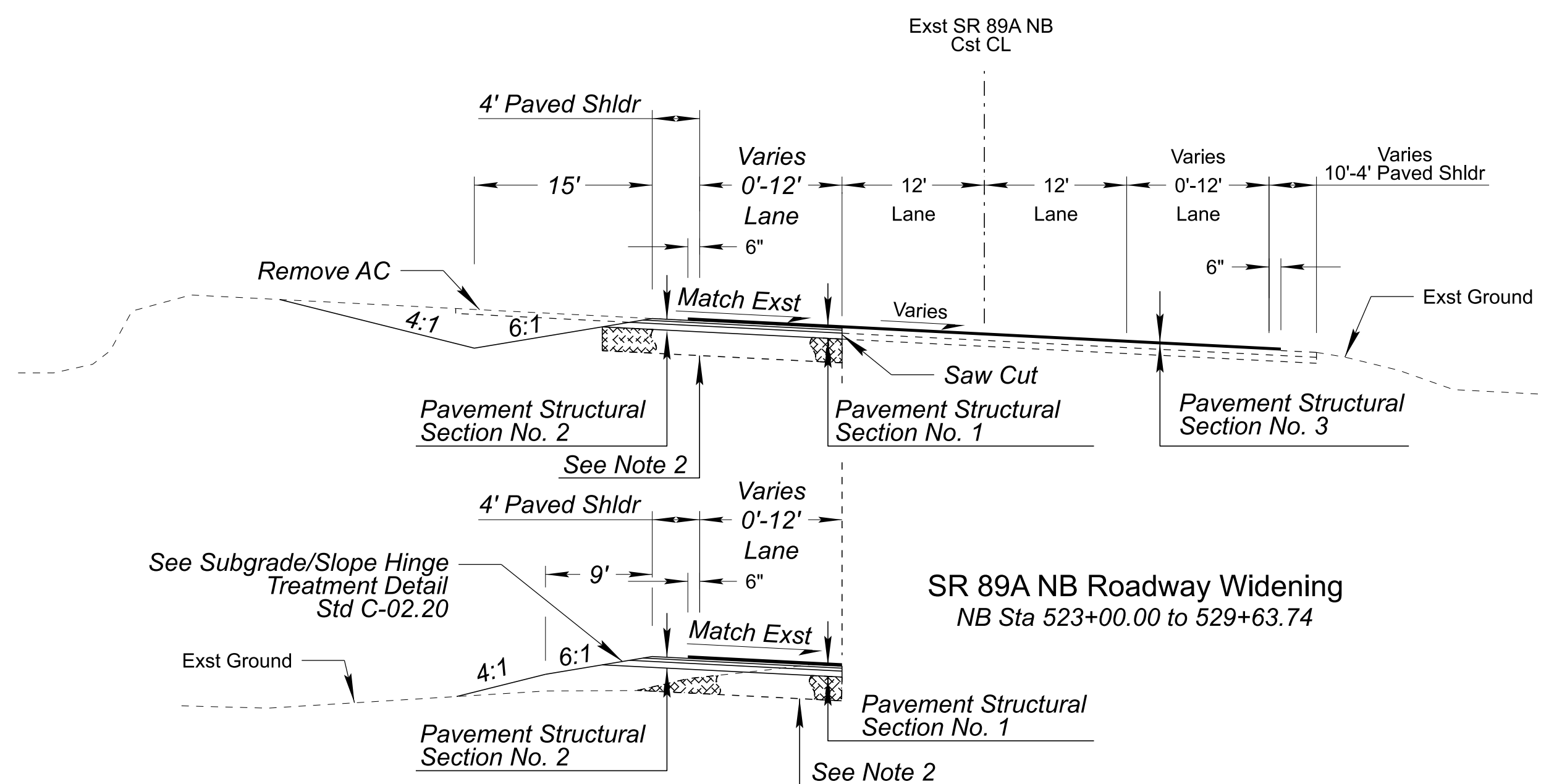
SR 89A NB Roadway Widening
NB Sta 515+17.45 to 518+31.48



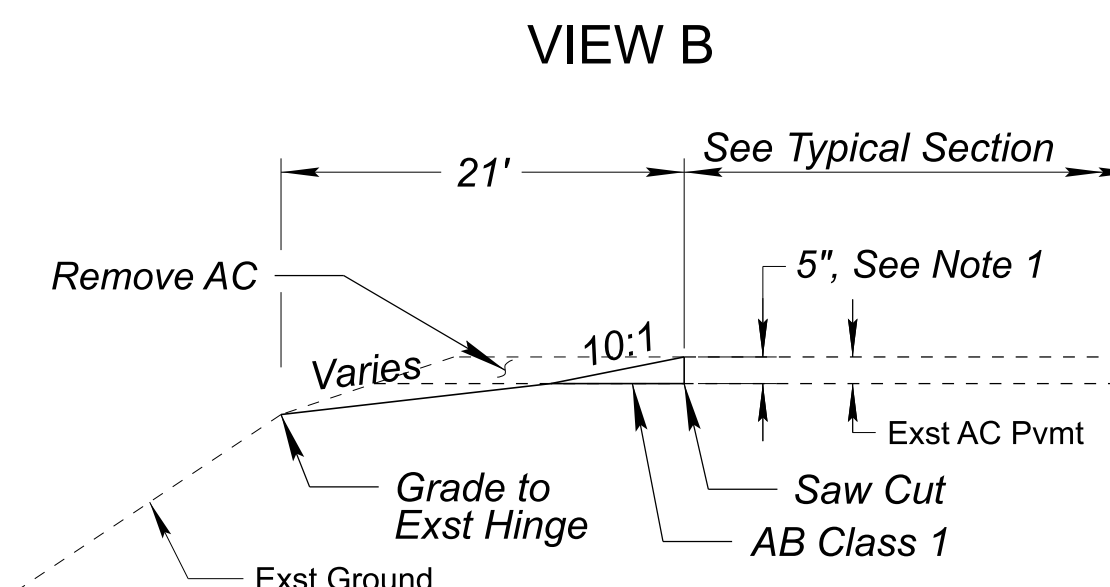
SR 89A NB Shoulder Removal
NB Sta 518+31.48 to 523+00.00



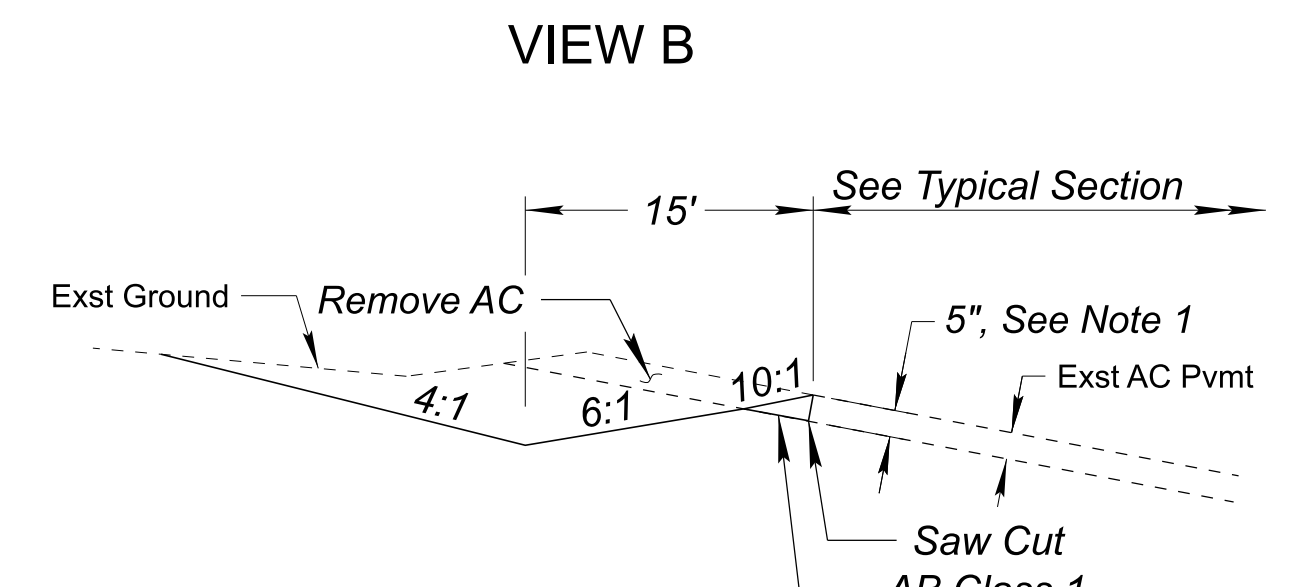
SR 89A NB Mill & Microsurface
NB Sta 529+63.74 to 543+43.00



NB Sta 526+50.00 to 529+63.74



SR 89A NB AC Removal
NB Sta 517+11.71 to 519+50.00



SR 89A NB AC Removal
NB Sta 519+50.00 to 523+00.00

NOTE:

1. AB Depth shall match the existing AC Pavement Thickness at Saw Cut and Taper Depth to Hinge Point.
2. Unsuitable material shall not be placed within 3 feet of the finished subgrade. Overexcavate existing material to a depth of 3 feet below finished subgrade and replace with borrow material meeting a minimum R-value of 20. This work is included in the 2030301 and 2030302 pay items, no separate measurement or payment will be made.



	NAME	DATE
DESIGN	ZSZ	07/26
DRAWN	RM	07/26
CHECKED	CML	07/26

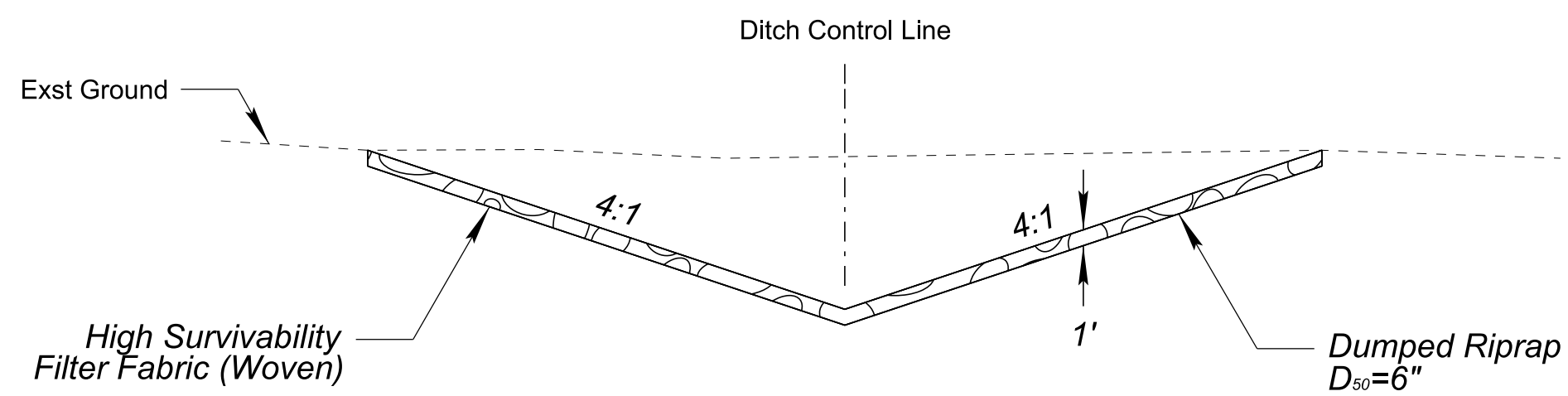
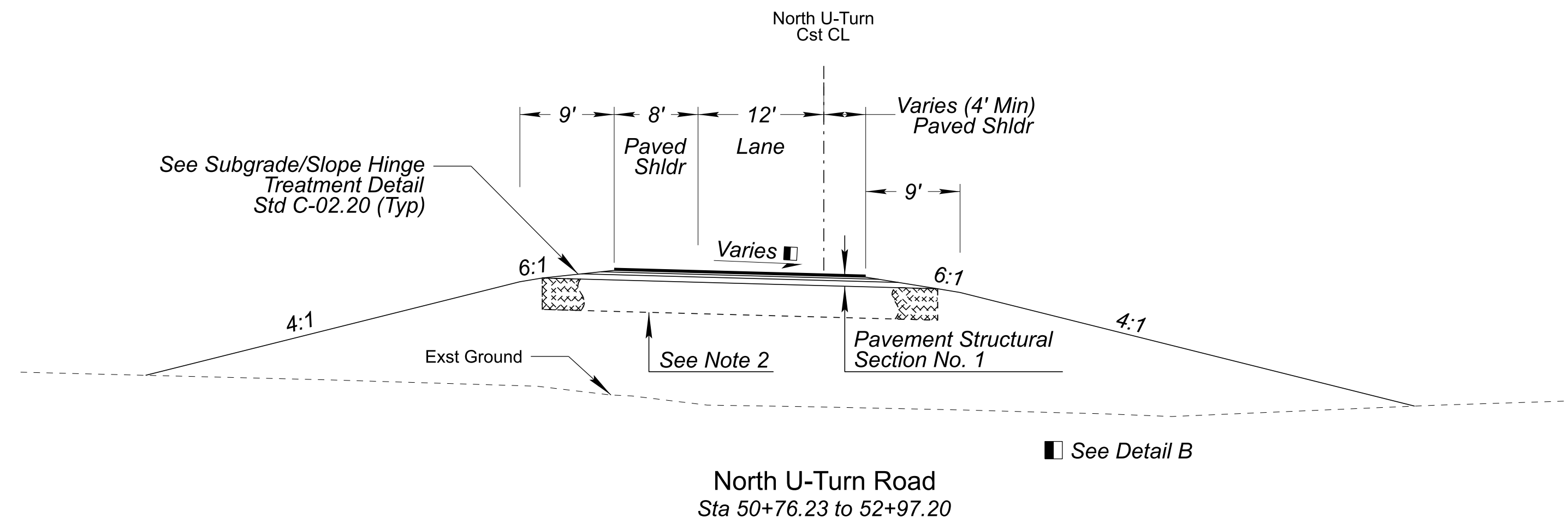
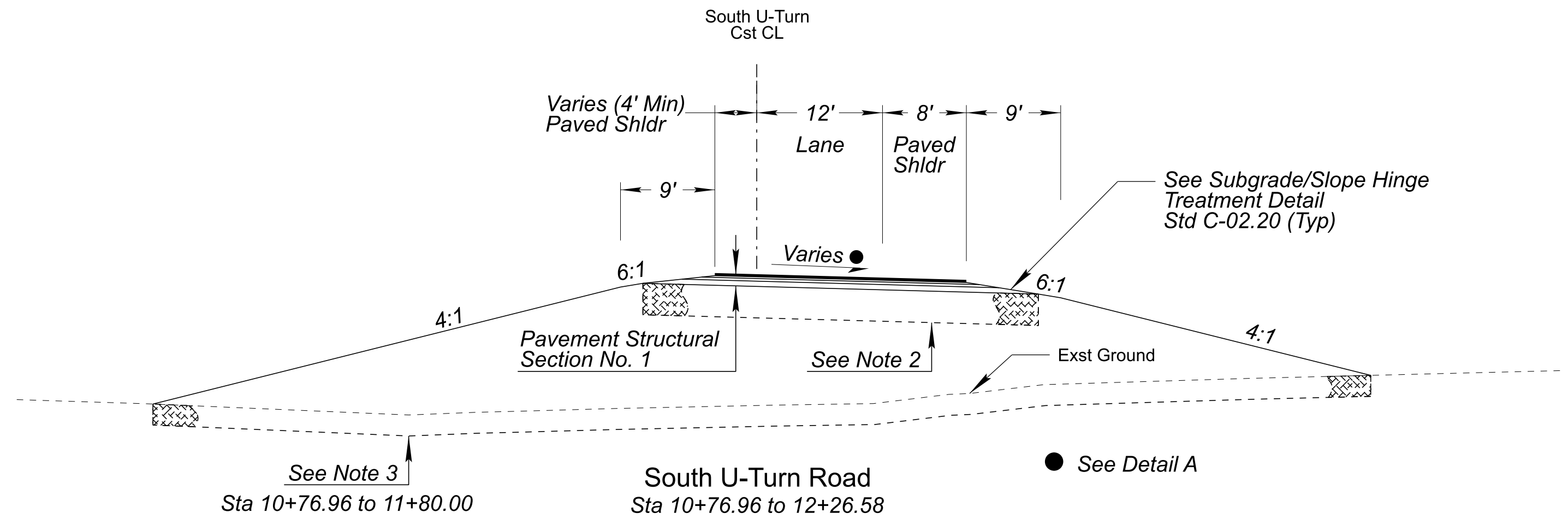
3133 East Camelback Road, Suite 100
Phoenix, Arizona 85016
Phone: (602) 335-2200

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

TYPICAL SECTIONS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	F.H.W.A. Arizona Division	089A YV 362	A89-B(225)T	4	58	
MILEPOST	LOCATION	SR89A AT PAGE SPRINGS ROAD				DWG NO. G-02.02
STRUCTURE NO.	TRACS NO. F0624 01C					OF



Graded Ditch (See Plans for Location)
SR89A NB Sta 519+50, 31' Lt
SR89A SB Sta 521+25, 43' Rt

- NOTE:**
1. AB Depth shall match the existing AC Pavement Thickness at Saw Cut and Taper Depth to Hinge Point.
 2. Unsuitable material shall not be placed within 3 feet of the finished subgrade. Overexcavate existing material to a depth of 3 feet below finished subgrade and replace with borrow material meeting a minimum R-value of 20. This work is included in the 2030301 and 2030302 pay items, no separate measurement or payment will be made.
 3. The ground surface within embankment fill areas greater than five feet in height should be overexcavated, moisture conditioned, and recompacted two feet below existing grade. This work is included in the 2030302 pay item, no separate measurement or payment will be made.



	NAME	DATE
DESIGN	ZSZ	07/26
DRAWN	RM	07/26
CHECKED	CML	07/26

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

TYPICAL SECTIONS

ROUTE	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST	ARIZ.	089A YV 362	A89-B(225)T	5	58	
STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD					DWG NO. G-02.03
TRACS NO. F0624 01C		OF				

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

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

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

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

[illegible]

FILL HEIGHT RANGE TABLE (Ft.)													
RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70	90
● SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.													

☑ PIPE CORRUGATION			
A	2 $\frac{2}{3}$ x1 $\frac{1}{2}$	D	6x2
B	3x1	E	3x1 or 9x2 $\frac{1}{2}$
C	9x2 $\frac{1}{2}$		



	NAME	DATE
DESIGN	JL	07/26
DRAWN	RM	07/26
CHECKED	JPM	07/26



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PROJECT DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SERVICES

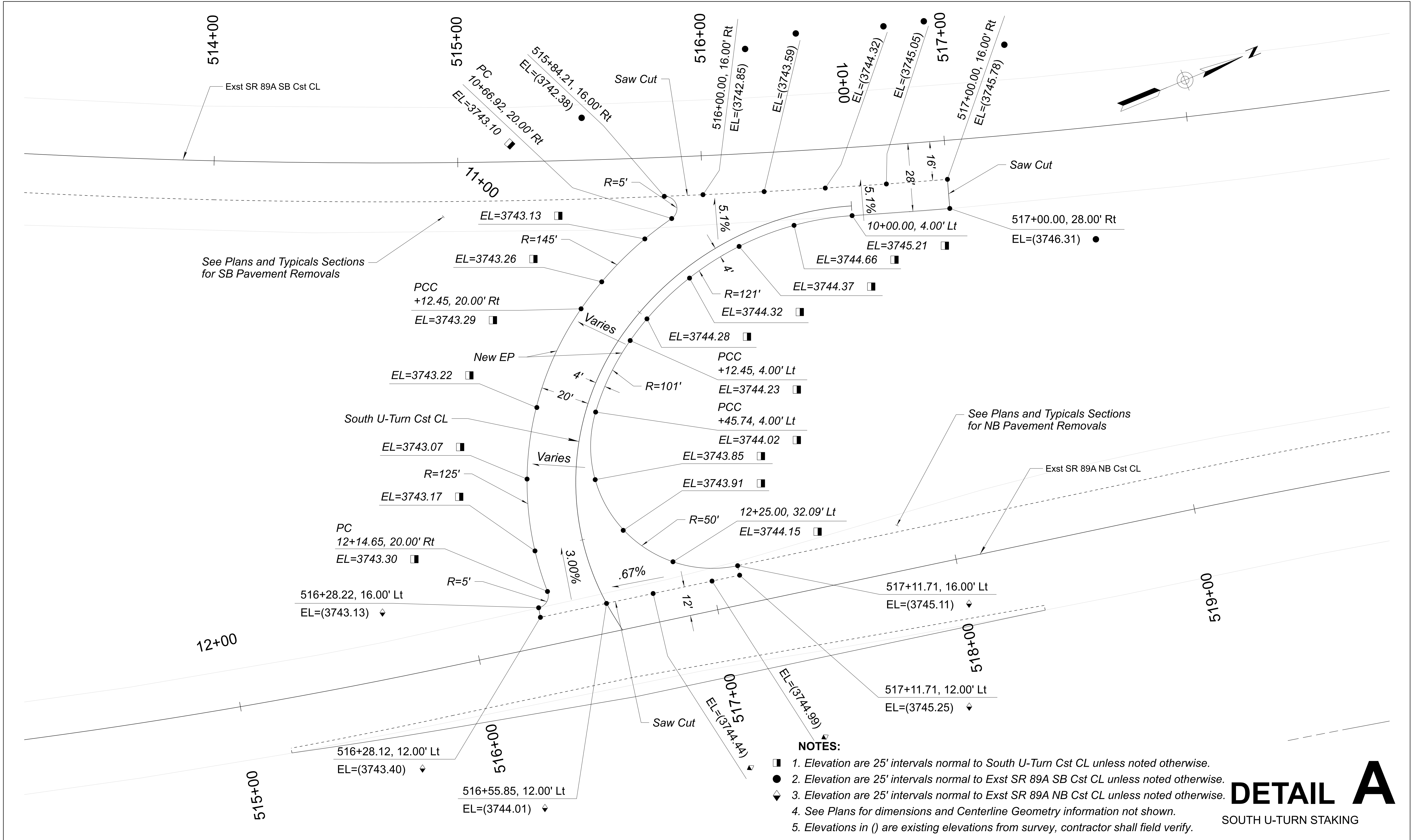
NEW PIPE SUMMARY SHEET

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	6	58	
	LOCATION SR89A AT PAGE SPRINGS ROAD					DWG NO. G-03.01	
STRUCTURE NO.	TRACS NO. F0624 01C					___ OF ___	

REV. DATE: MAR 2022

[illegible]

[illegible]

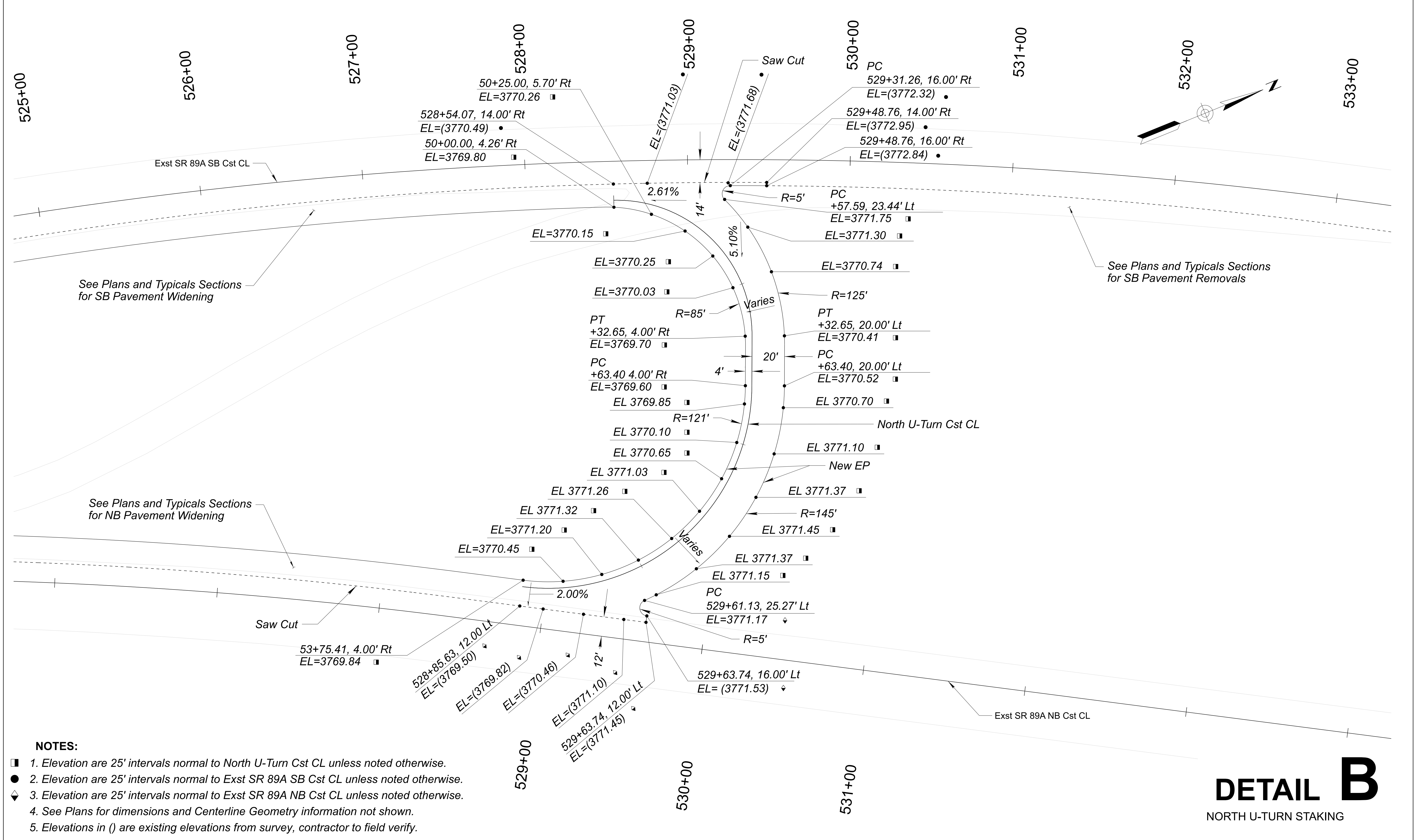


- NOTES:**
- 1. Elevation are 25' intervals normal to South U-Turn Cst CL unless noted otherwise.
 - 2. Elevation are 25' intervals normal to Exst SR 89A SB Cst CL unless noted otherwise.
 - 3. Elevation are 25' intervals normal to Exst SR 89A NB Cst CL unless noted otherwise.
 - 4. See Plans for dimensions and Centerline Geometry information not shown.
 - 5. Elevations in () are existing elevations from survey, contractor shall field verify.

DETAIL A

SOUTH U-TURN STAKING

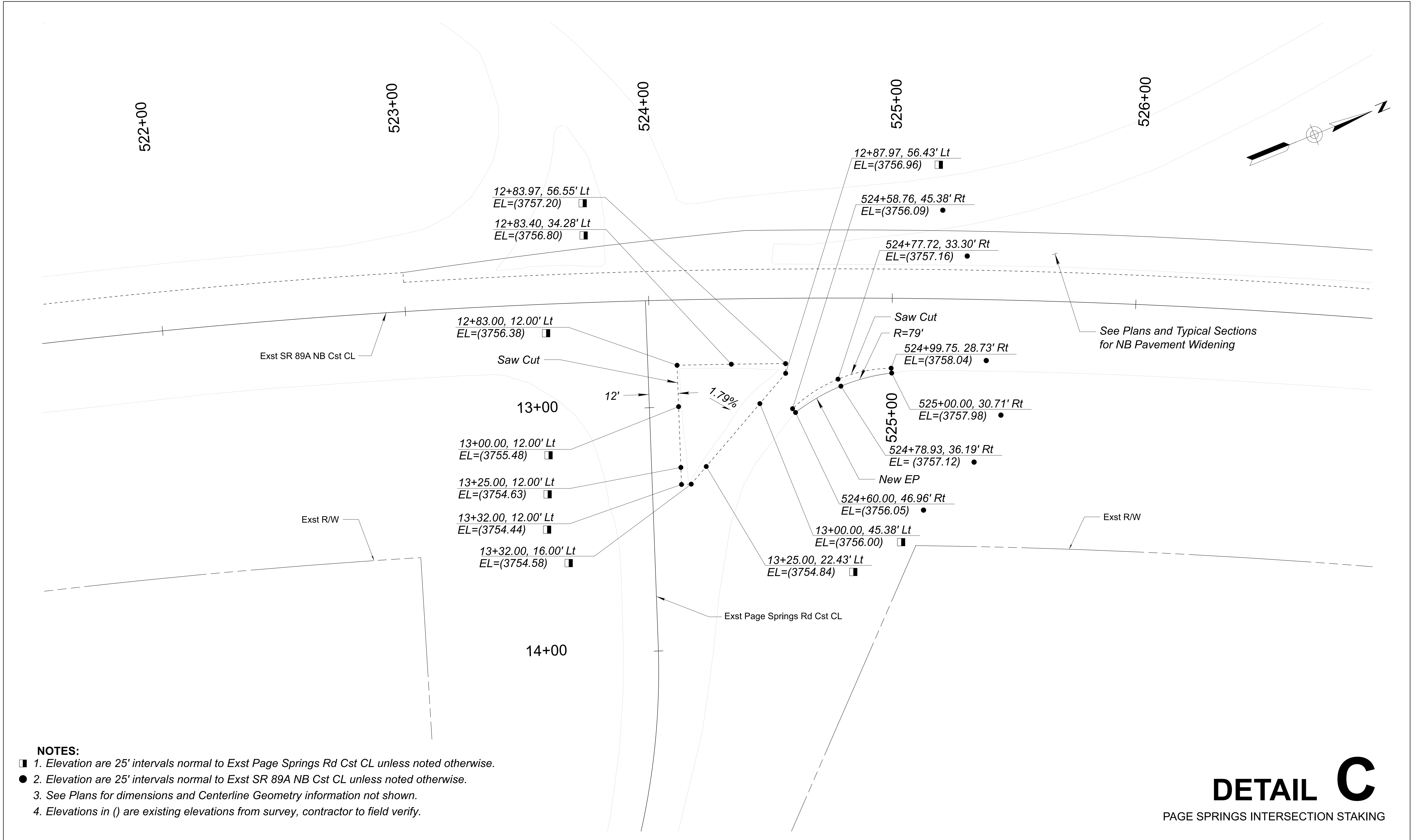
	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	RM	07/26		089A YV 362			A89-B(225)T	9	58		
	CHECKED	CML	07/26									
	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602. 333-2200			DETAIL A SOUTH U-TURN STAKING PLAN				SR89A AT PAGE SPRINGS ROAD				
					STRUCTURE NO.	TRACS NO. F0624 01C		OF				



- NOTES:**
- 1. Elevation are 25' intervals normal to North U-Turn Cst CL unless noted otherwise.
 - 2. Elevation are 25' intervals normal to Exst SR 89A SB Cst CL unless noted otherwise.
 - ◆ 3. Elevation are 25' intervals normal to Exst SR 89A NB Cst CL unless noted otherwise.
 - 4. See Plans for dimensions and Centerline Geometry information not shown.
 - 5. Elevations in () are existing elevations from survey, contractor to field verify.

DETAIL B
NORTH U-TURN STAKING

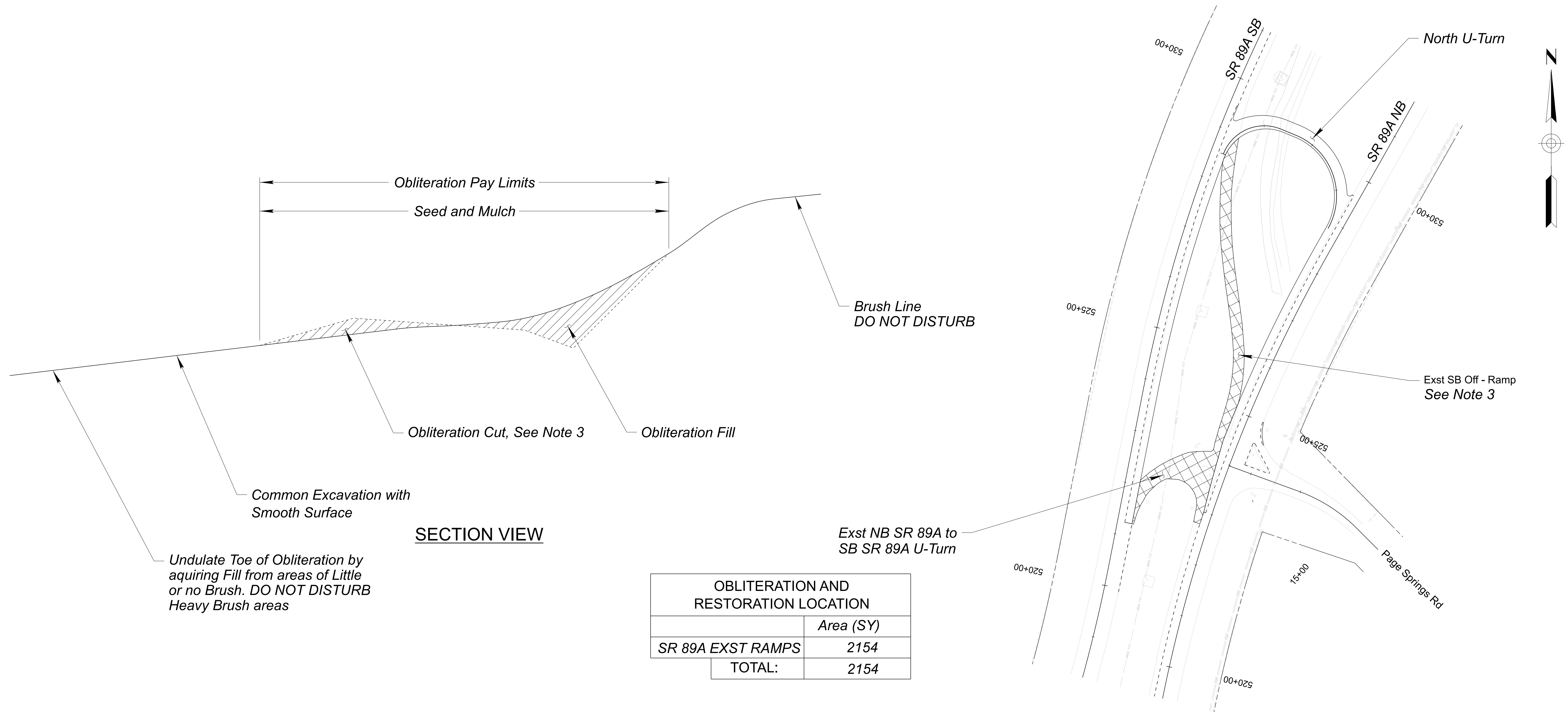
75741 COLE LASTOVICA 7/27/2008 ARIZONA 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 335-2200 Stanley Consultants INC.	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	RM	07/26		MILEPOST			089A YV 362	A89-B(225)T	10	58	
	CHECKED	CML	07/26		STRUCTURE NO.			SR89A AT PAGE SPRINGS ROAD			DWG NO. G-06.02	
	DETAIL B NORTH U-TURN STAKING PLAN				TRACS NO. F0624 01C						OF	



- NOTES:**
- 1. Elevation are 25' intervals normal to Exst Page Springs Rd Cst CL unless noted otherwise.
 - 2. Elevation are 25' intervals normal to Exst SR 89A NB Cst CL unless noted otherwise.
 - 3. See Plans for dimensions and Centerline Geometry information not shown.
 - 4. Elevations in () are existing elevations from survey, contractor to field verify.

DETAIL C
PAGE SPRINGS INTERSECTION STAKING

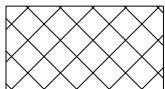
	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	ZSZ	07/26		MILEPOST			089A YV 362	A89-B(225)T	11	58	
	DRAWN	RM	07/26		STRUCTURE NO.			SR89A AT PAGE SPRINGS ROAD				
	CHECKED	CML	07/26	DETAIL C PAGE SPRINGS INTERSECTION STAKING PLAN		TRACS NO. F0624 01C		OF				



NOTES:

1. The existing SR 89A SB Off - Ramp and the NB SR 89A to SB SR 89A U-Turn roadways will be removed. See plans and typical sections for additional information on AC Pavement removal limits. These removed roadways require obliteration to restore these areas to near natural contours. See special provisions for additional information.
2. Removal of Existing AC Pavement is included in Pay Item 2020029. Seeding is included in Pay Item 8050003. All remaining work as shown in Detail D, associated with Obliteration of the Existing Roadway Footprint is included in Pay Item 9240129.
3. The contractor shall not excavate Existing Embankment below Elevation 3762.5'. The Lowest Point of the the Existing Roadway Embankment of the Existing SB Off - Ramp shall remain above elevation 3762.5'.

OBLITERATION AND RESTORATION LOCATION	
	Area (SY)
SR 89A EXST RAMPS	2154
TOTAL:	2154

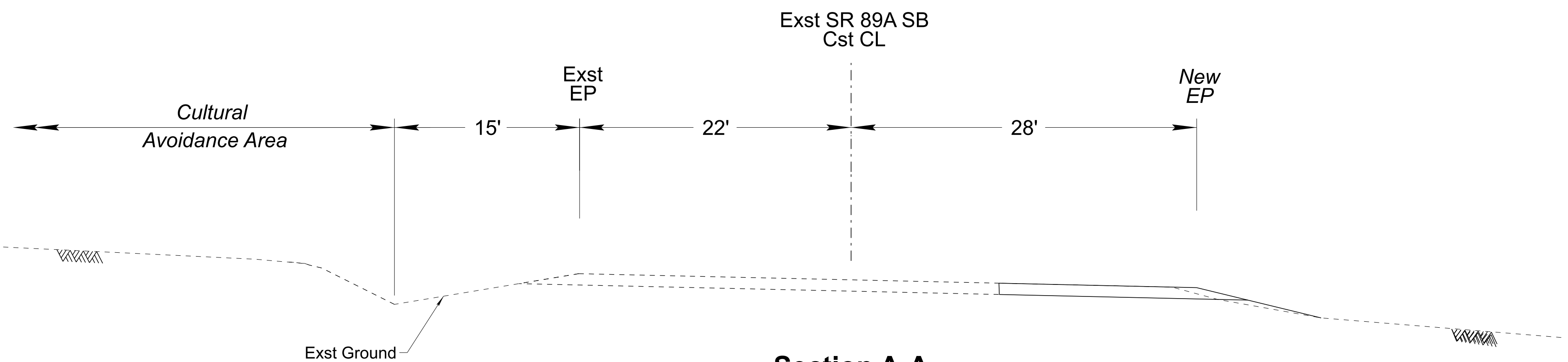
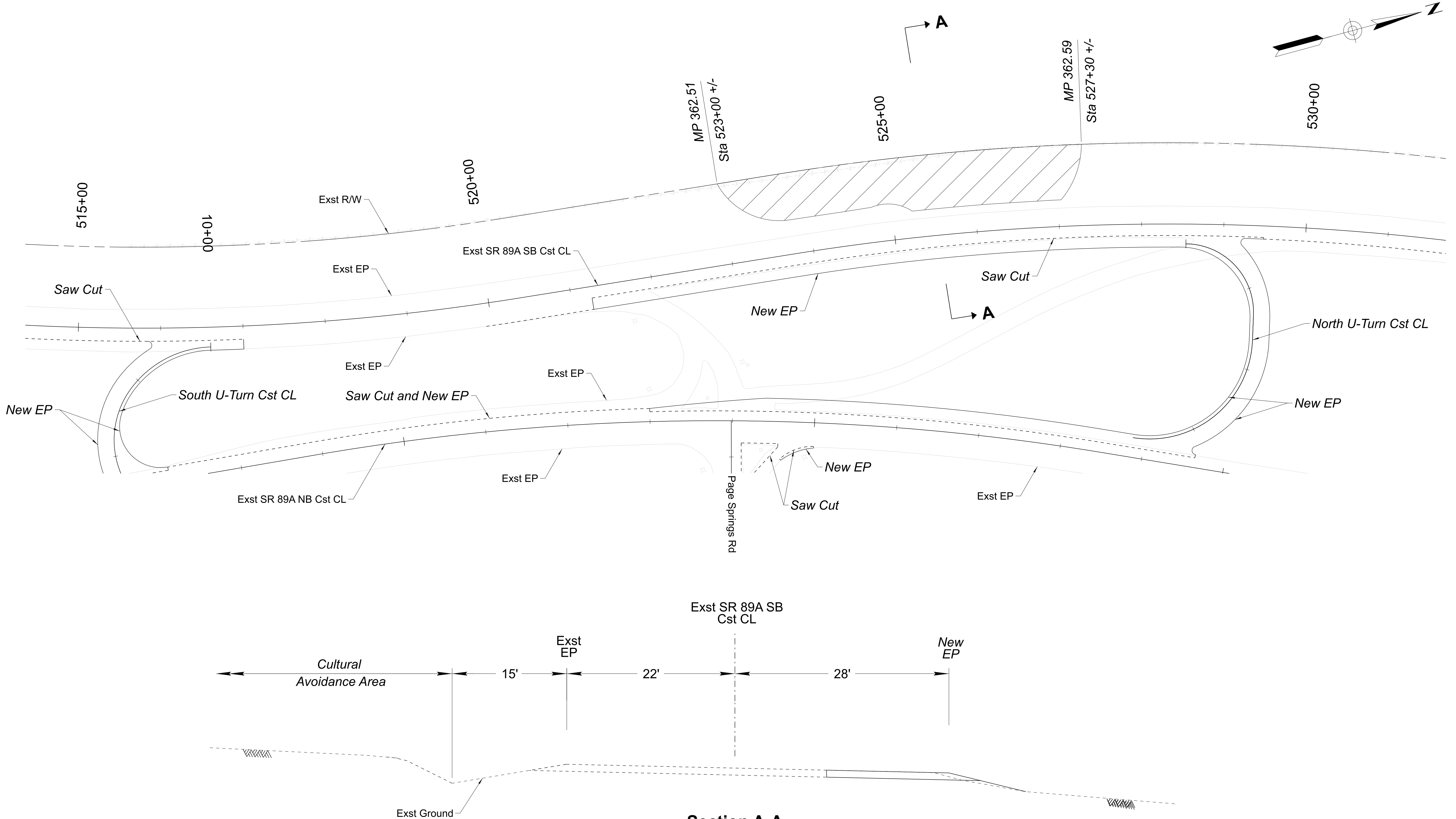


ROADWAY OBLITERATION AREA

DETAIL D

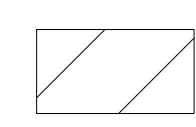
EXISTING ROADWAY OBLITERATION AND RESTORATION

	DESIGN	ZSZ	DATE	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division		STATE	ARIZ.	PROJECT NO.	089A YV 362	FEDERAL ID NO.	A89-B(225)T	SHEET NO.	12	TOTAL SHEETS	58	RECORD DRAWING	
	DRAWN	RM	DATE	07/26		MILEPOST	SR89A AT PAGE SPRINGS ROAD													
	CHECKED	CML	DATE	07/26		STRUCTURE NO.	TRACS NO.		F0624 01C											
						DETAIL D EXST ROADWAY OBLITERATION & RESTORATION		DWG NO. G-06.04 ____ OF ____												



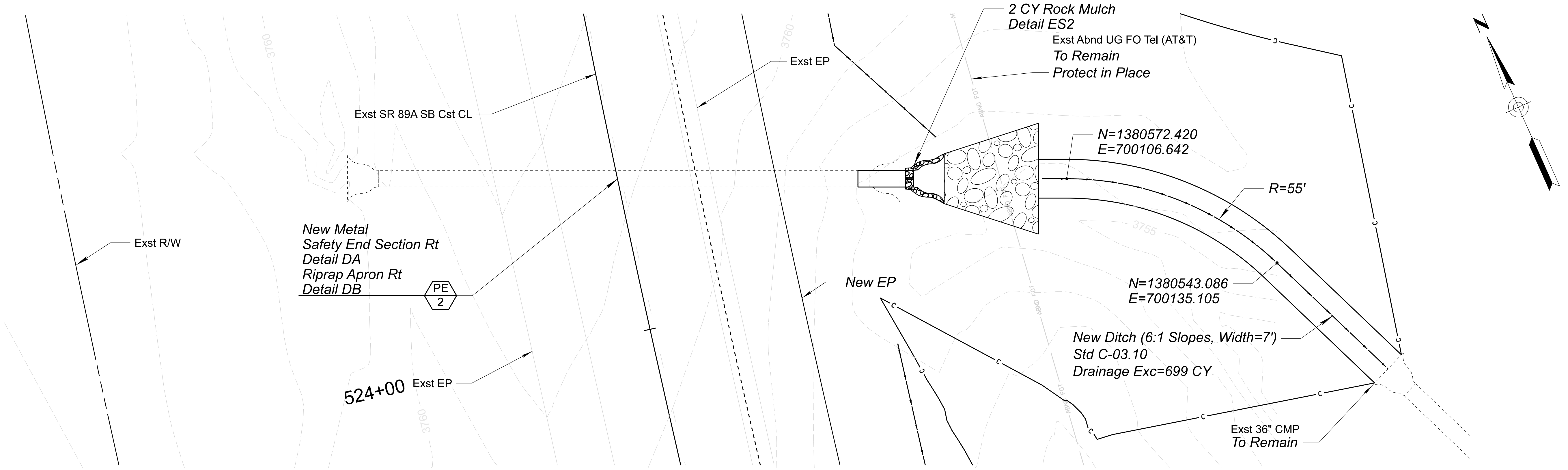
Section A-A
Not To Scale

LEGEND

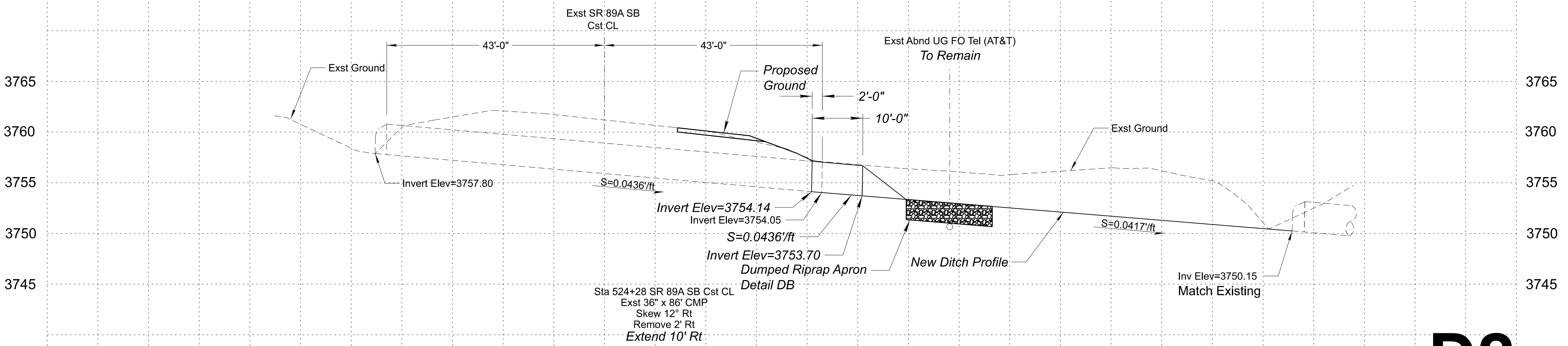
 CULTURAL AVOIDANCE AREA
(See Special Provisions)

DETAIL **E**
CULTURAL AVOIDANCE AREA

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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	DRAWN	JML	07/26									
	CHECKED	CML	07/26	STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD							DWG NO. G-06.05
	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 335-2200			DETAIL E CULTURAL AVOIDANCE AREA	TRACS NO. F0624 01C		____ OF ____					

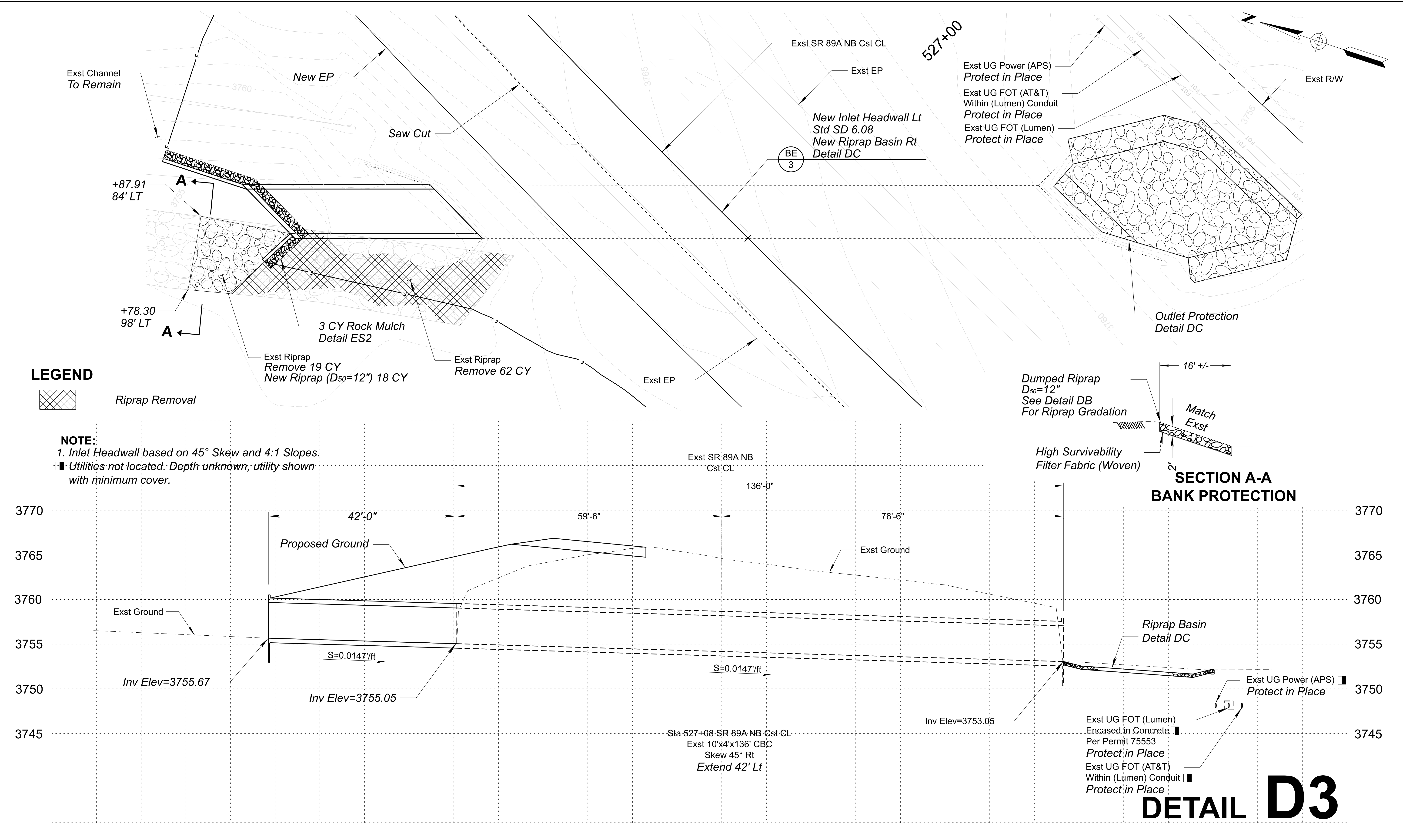


NOTE:
1. Outlet Metal Safety End Section Based on 4:1 Slopes:

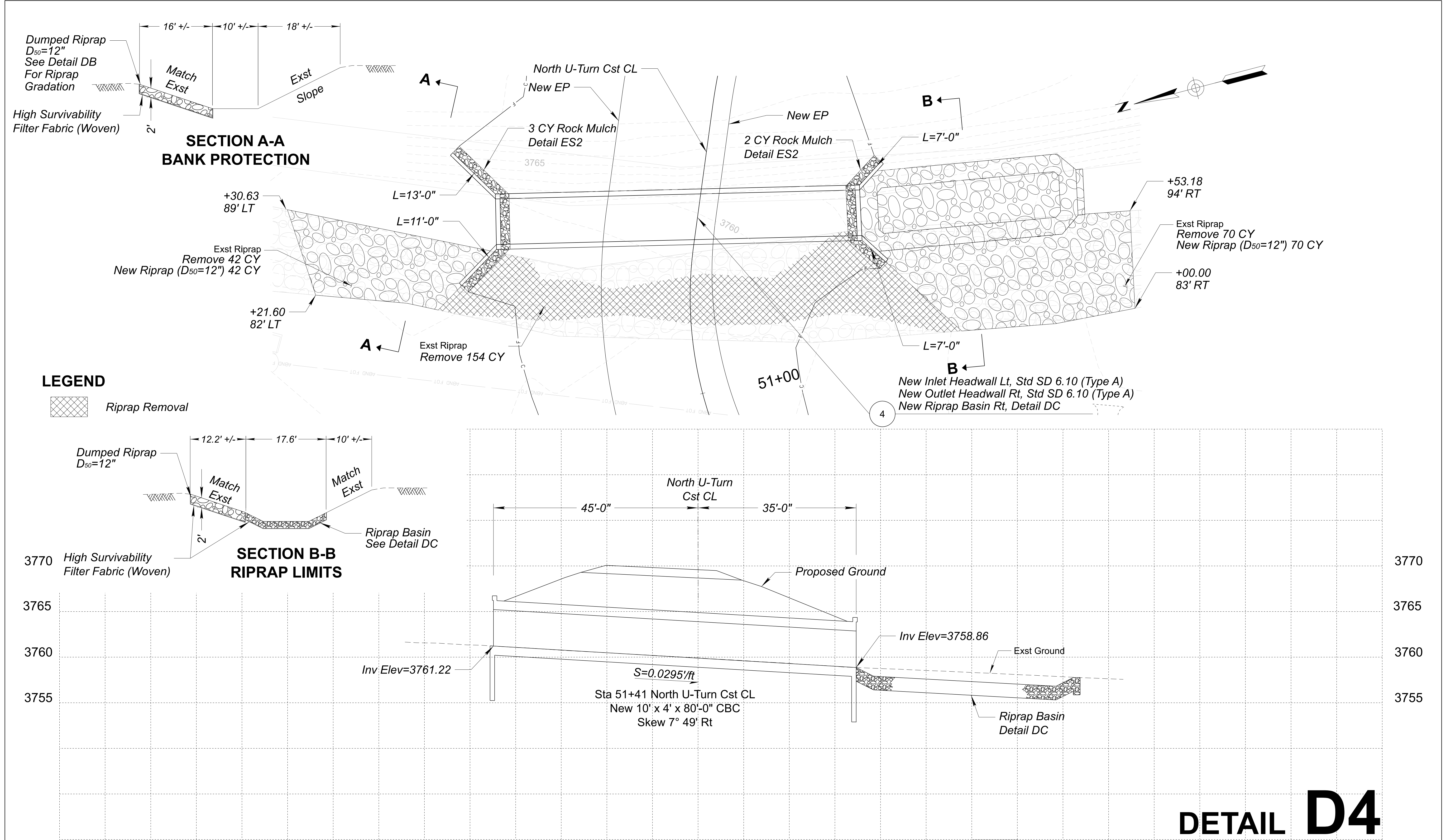


DETAIL D2

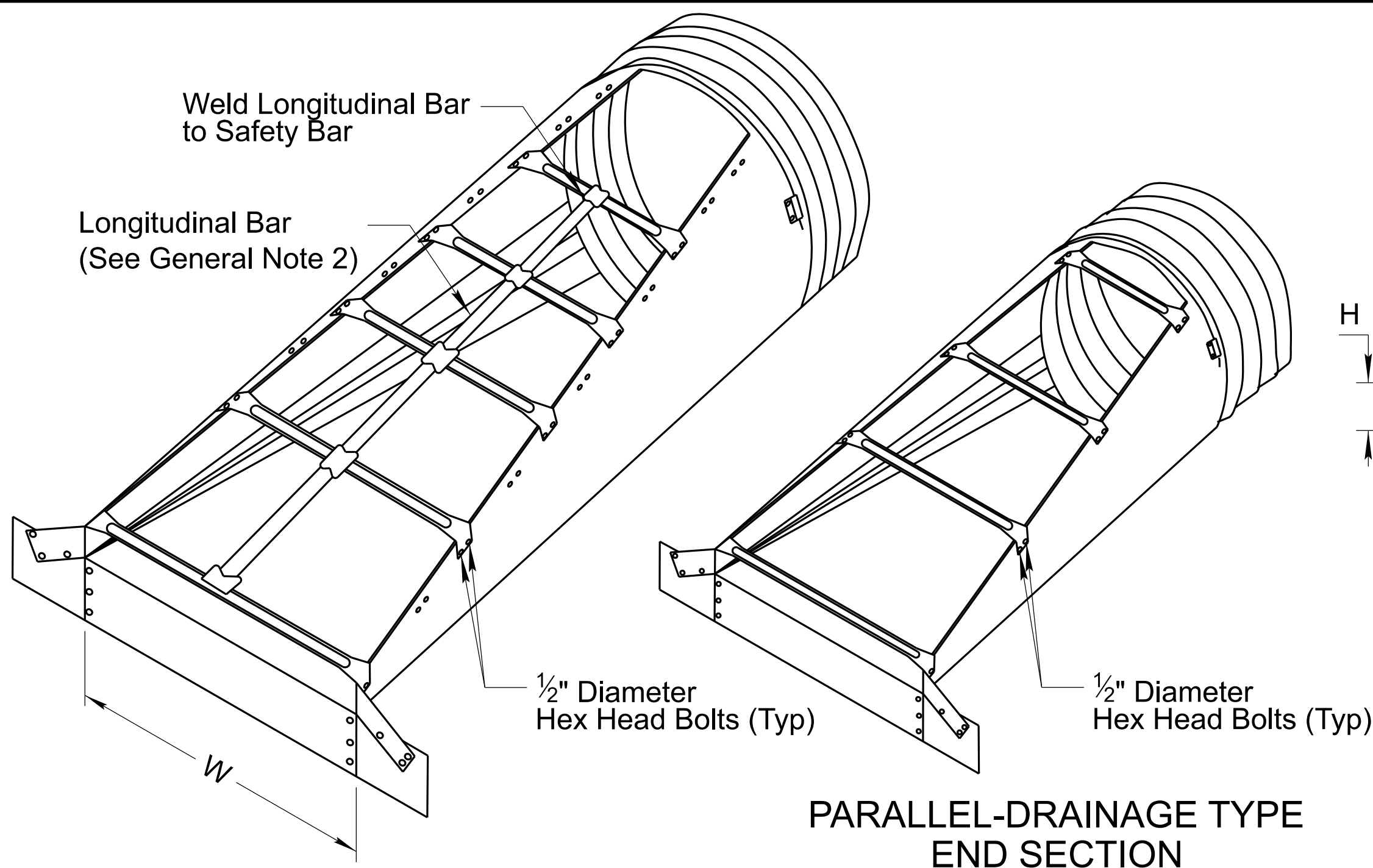
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	DESIGN	JL	07/26					ARIZ.	089A YV 362	A89-B(225)T	15	58		
	DRAWN	RM	07/26			MILEPOST								
	CHECKED	JPM	07/26			STRUCTURE NO.								
 Stanley Consultants INC.		3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602-333-2200		CULVERT DETAIL SHEET EXST SR 89A SB STA 524+28 DETAIL D2		LOCATIONSR89A AT PAGE SPRINGS ROAD TRACS NO. F0624 01C								DWG NO. D-01.02 ____ OF ____



	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE		F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	JL	07/26		MILEPOST	LOCATION SR89A AT PAGE SPRINGS ROAD							
	DRAWN	RM	07/26										
	CHECKED	JPM	07/26										
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602 333-2200				CULVERT DETAIL SHEET EXST SR 89A NB STA 527+08 DETAIL D3		STRUCTURE NO.		TRACS NO. F0624 01C		DWG NO. D-01.03 ____ OF ____			

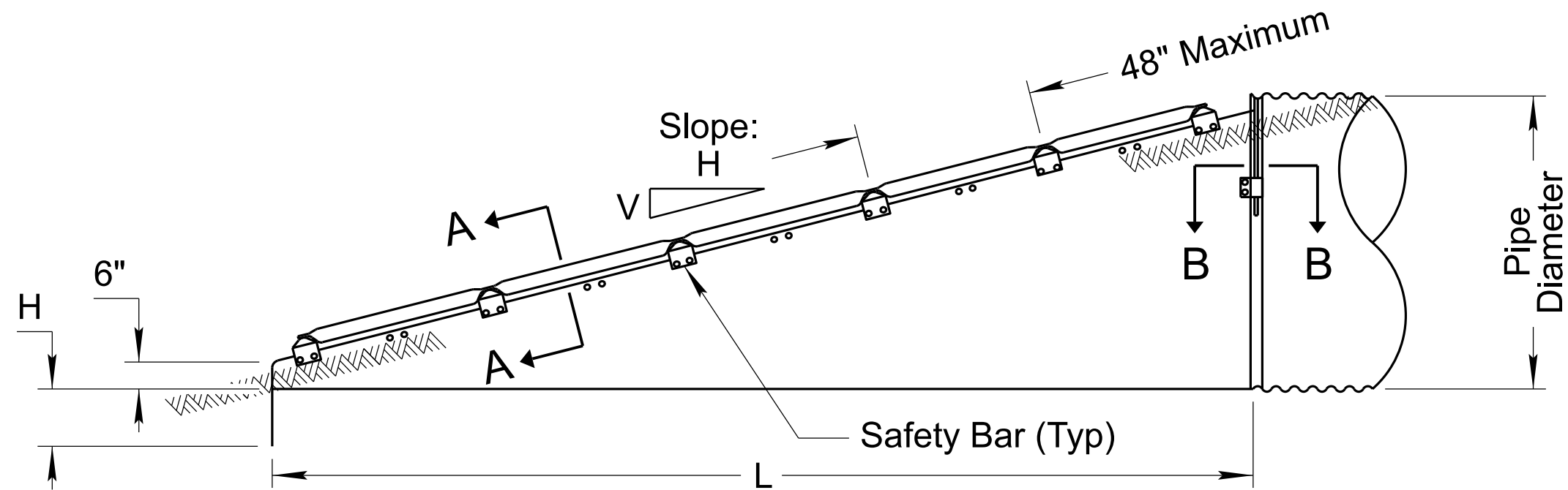


	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE		F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	JL	07/26		MILEPOST	SR89A AT PAGE SPRINGS ROAD			DWG NO. D-01.04				
	DRAWN	RM	07/26			TRACS NO. F0624 01C				OF			
	CHECKED	JPM	07/26	CULVERT DETAIL SHEET NORTH U-TURN STA 51+41 DETAIL D4		STRUCTURE NO.							
				3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 333-2200									

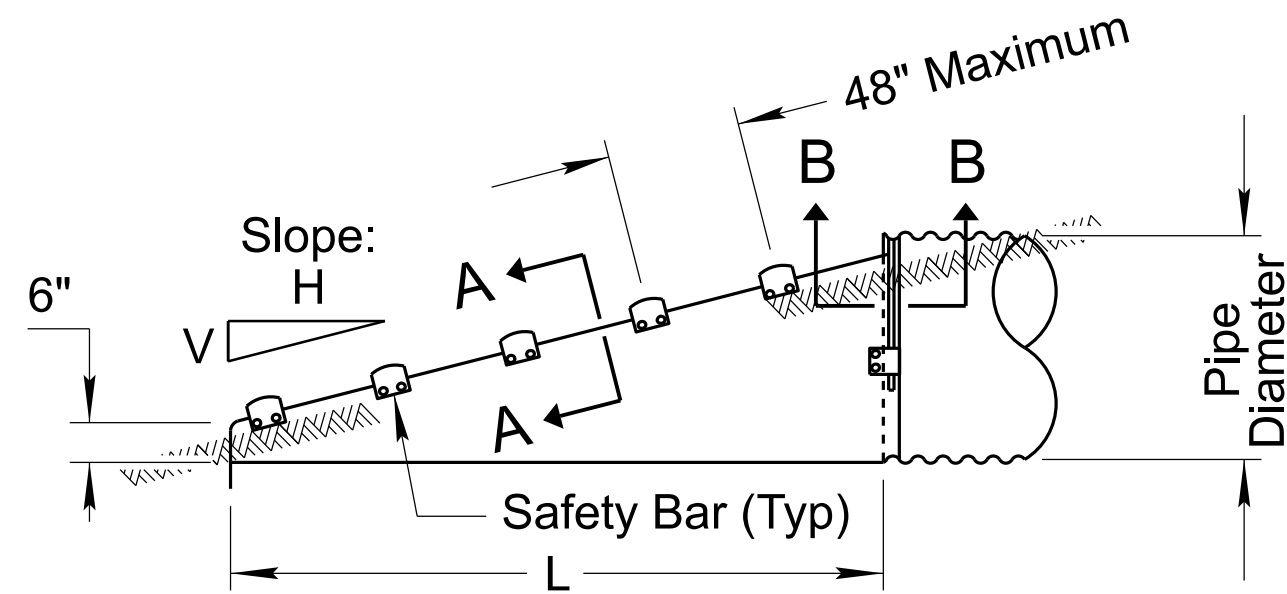


CROSS-DRAINAGE TYPE
END SECTION

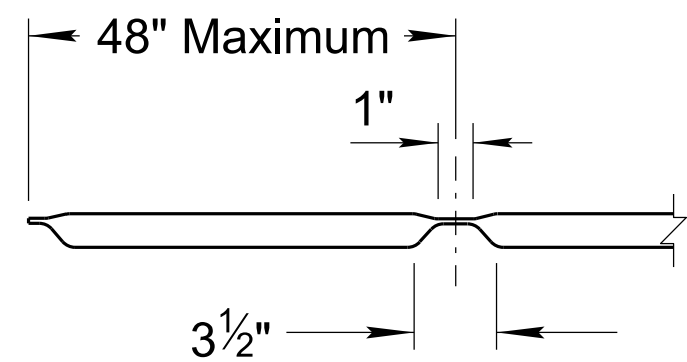
PARALLEL-DRAINAGE TYPE
END SECTION



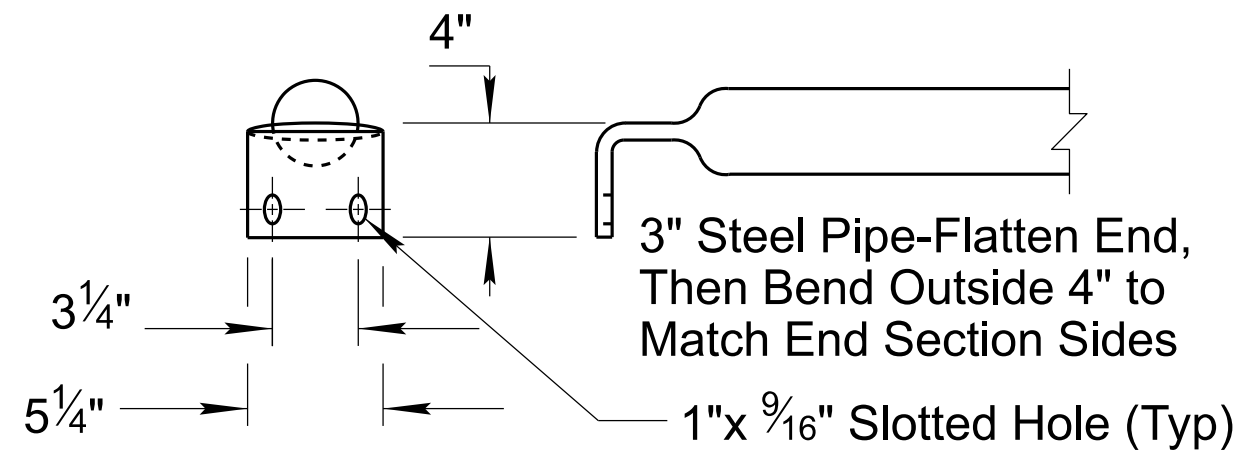
SIDE VIEW-CROSS DRAINAGE TYPE



SIDE VIEW-PARALLEL DRAINAGE TYPE



LONGITUDINAL
BAR DETAIL

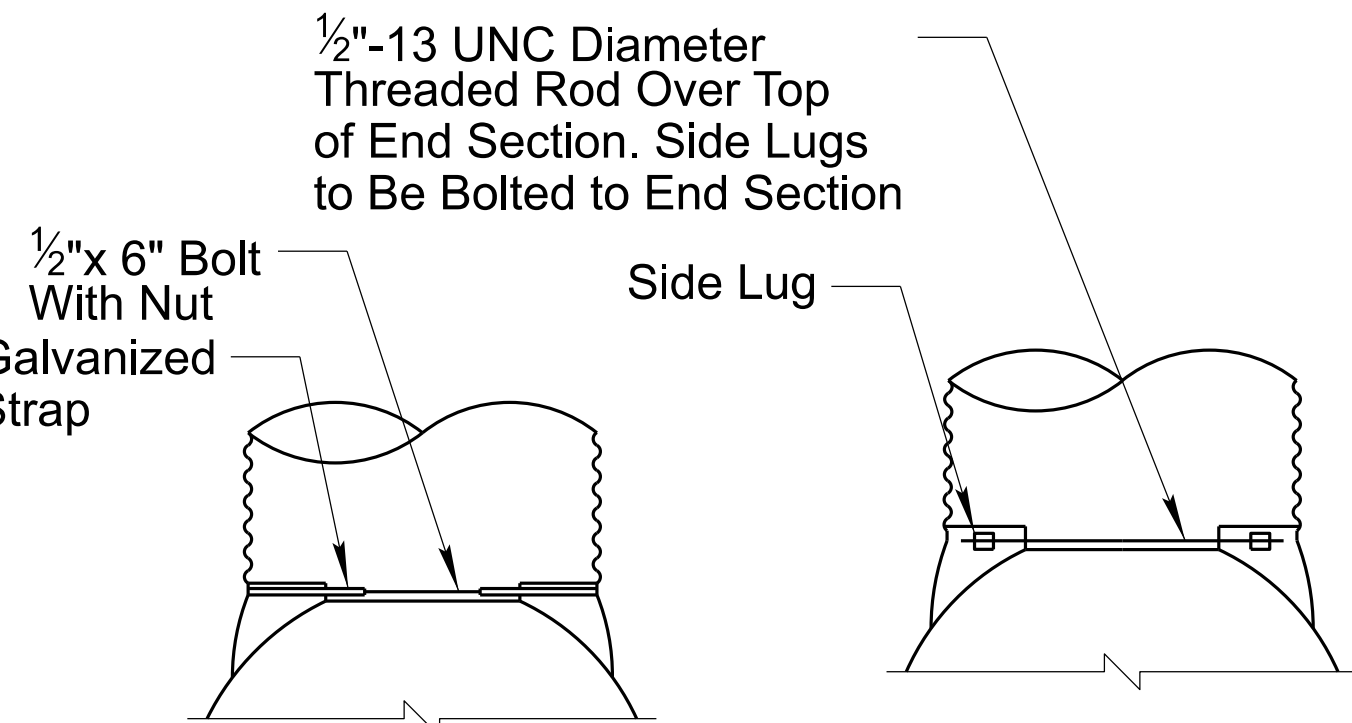


SAFETY BAR DETAIL

METAL END SECTION FOR CIRCULAR PIPES											
Pipe Diameter (In)	Minimum Thickness		Dimensions (In)				L Dimensions				
	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V
15	0.064	16	8	6	21	37	4:1	20	6:1	30	10:1
18	0.064	16	8	6	24	40	4:1	32	6:1	48	10:1
21	0.064	16	8	6	27	43	4:1	44	6:1	66	10:1
24	0.064	16	8	6	30	46	4:1	56	6:1	84	10:1
30	0.109	12	12	9	36	60	4:1	80	6:1	120	10:1
36	0.109	12	12	9	42	66	4:1	104	6:1	156	10:1
42	0.109	12	16	12	48	80	4:1	128	6:1	192	-
48	0.109	12	16	12	54	86	4:1	152	6:1	228	-
54	0.109	12	16	12	60	92	4:1	176	6:1	264	-
60	0.109	12	16	12	66	98	4:1	200	6:1	300	-

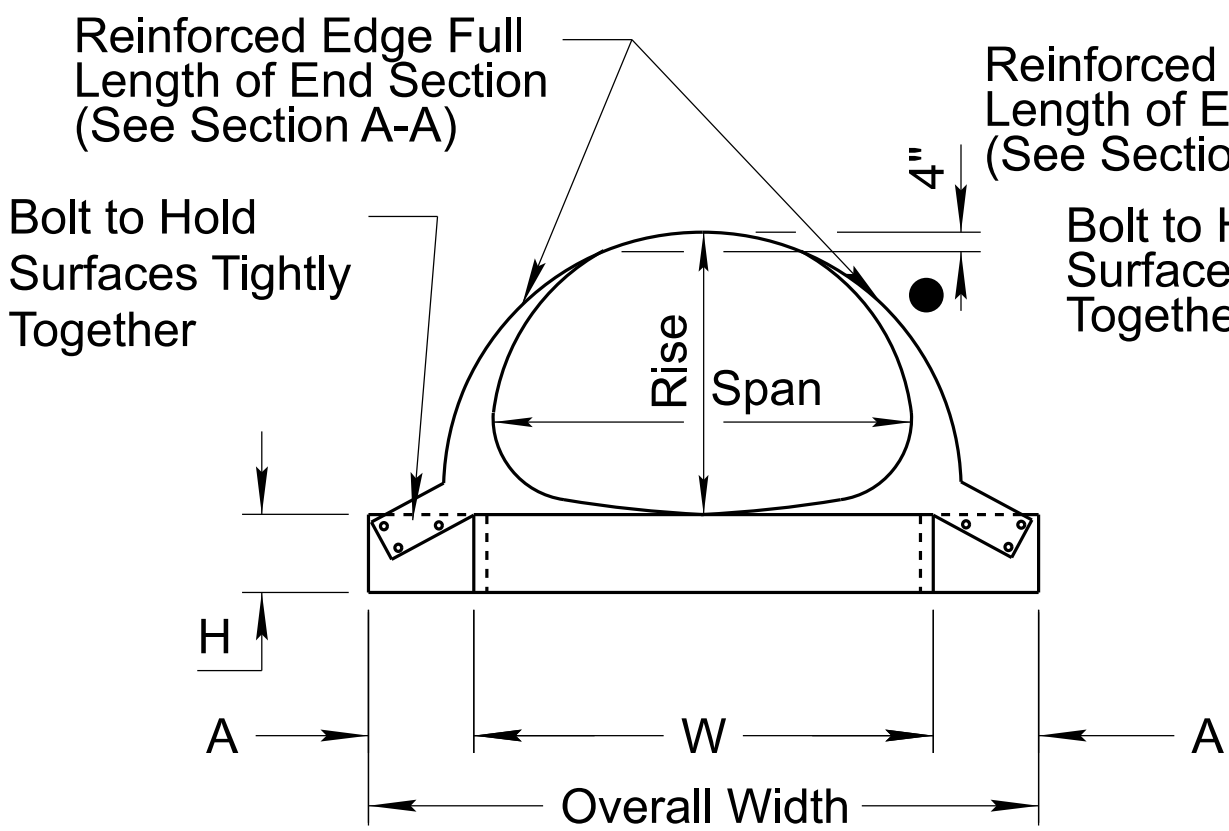
Minimum Thickness For All 10:1 Slope End Sections is 12 Gauge

METAL END SECTION FOR ARCHED PIPES													
Equivalent Diameter (In)	(Inches)		Minimum Thickness		Dimensions (In)				L Dimensions				
	Span	Rise	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V
18	21	15	0.064	16	8	6	27	43	4:1	20	6:1	30	10:1
21	24	18	0.064	16	8	6	30	46	4:1	32	6:1	48	10:1
24	28	20	0.064	16	8	6	34	50	4:1	40	6:1	60	10:1
30	35	24	0.079	14	12	9	41	65	4:1	56	6:1	84	10:1
36	42	29	0.109	12	12	9	48	72	4:1	76	6:1	114	10:1
42	49	33	0.109	12	16	12	55	87	4:1	92	6:1	138	-
48	57	38	0.109	12	16	12	63	95	4:1	112	6:1	168	-
54	64	43	0.109	12	16	12	70	102	4:1	132	6:1	198	-
60	71	47	0.109	12	16	12	77	109	4:1	149	6:1	222	-
72	83	57	0.109	12	16	12	89	121	4:1	188	6:1	282	-

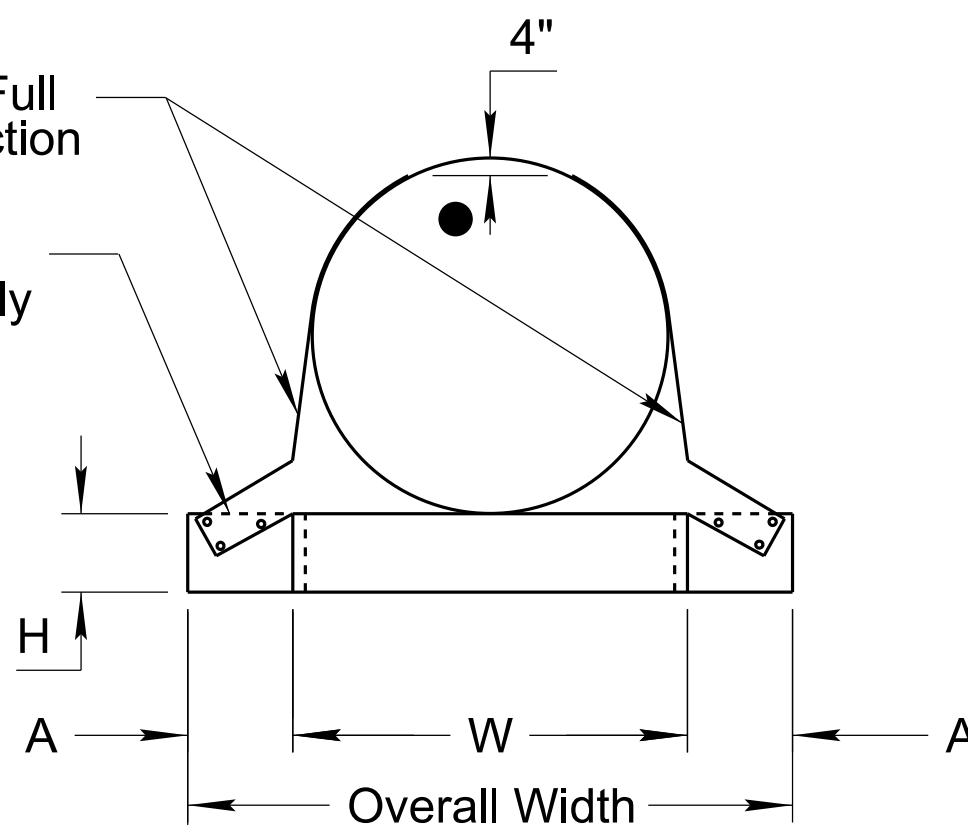


Circular Pipes 15-24"
TYPE 1 CONNECTION

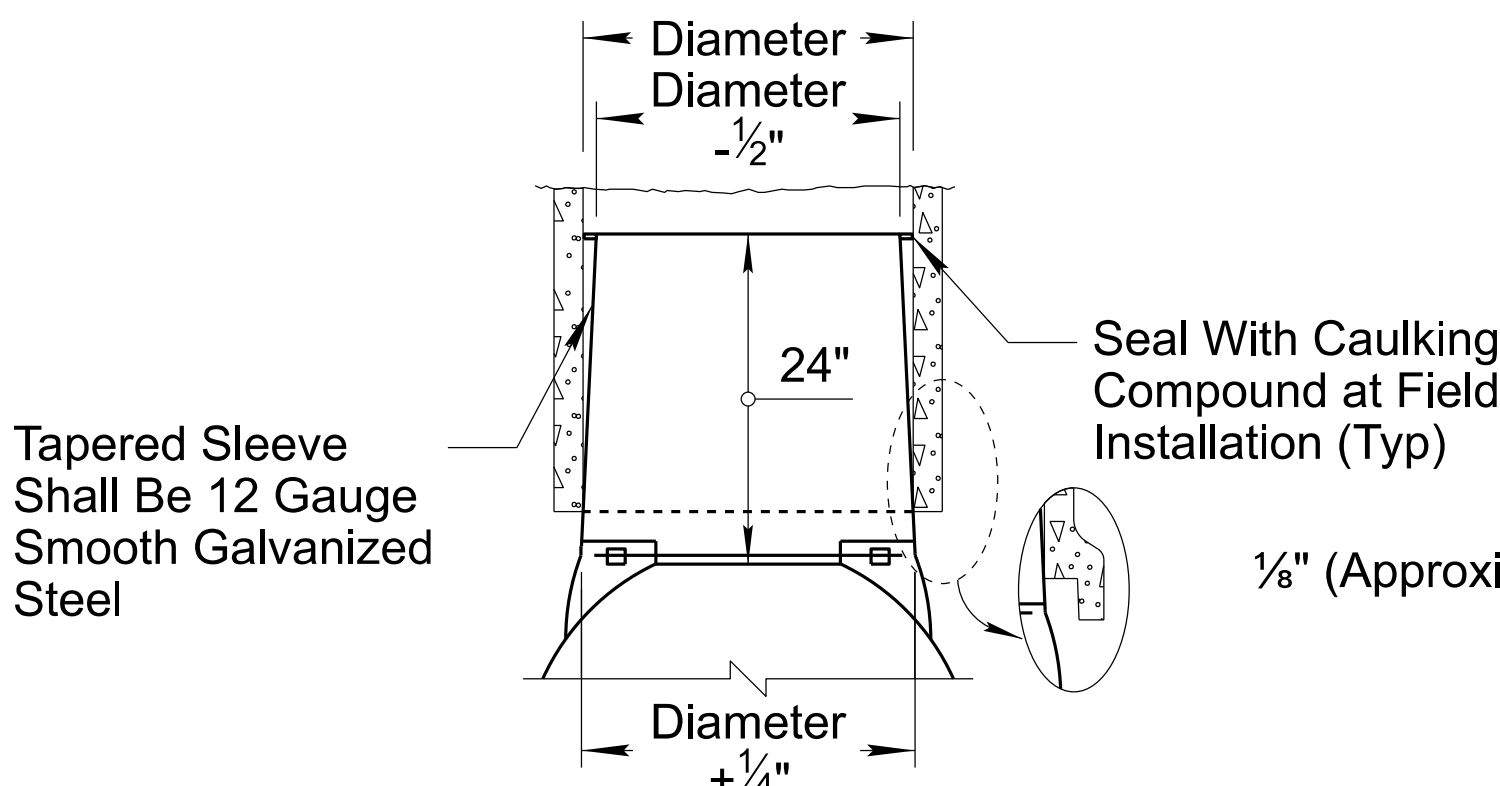
For 30" Diameter and
Larger Circular Pipes,
and All Arched Pipes
TYPE 2 CONNECTION



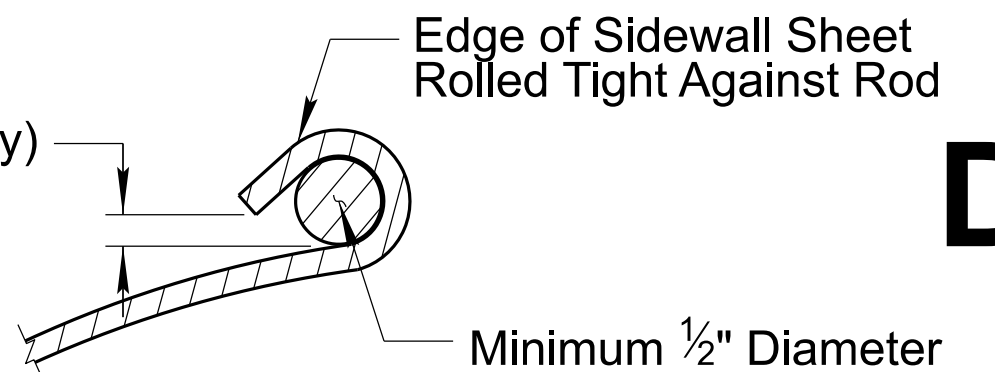
FRONT VIEW-ARCHED PIPE



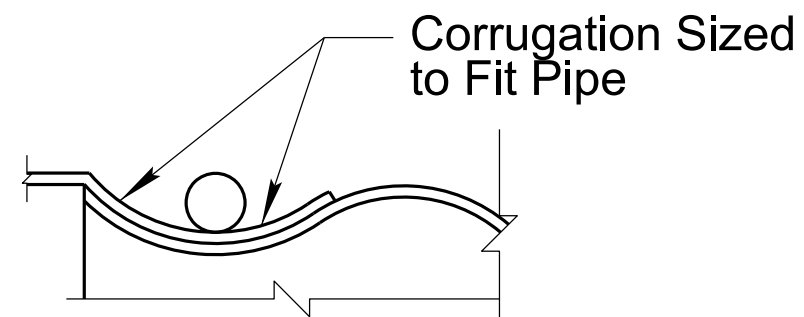
FRONT VIEW-ROUND PIPE



For All Concrete Pipes
TYPE 3 CONNECTION



SECTION A-A



SECTION B-B

DETAIL DA

METAL SAFETY END SECTION

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

- - Top of Sloped End Section
- - These Sizes Are Not Normally Used for Culverts by ADOT
- ▲ - Headwalls Are Normally Required for Pipe Sizes 48" and Larger

	NAME	DATE
DESIGN	JL	07/26
DRAWN	RM	07/26
CHECKED	JPM	07/26



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Phone: (602) 333-2200

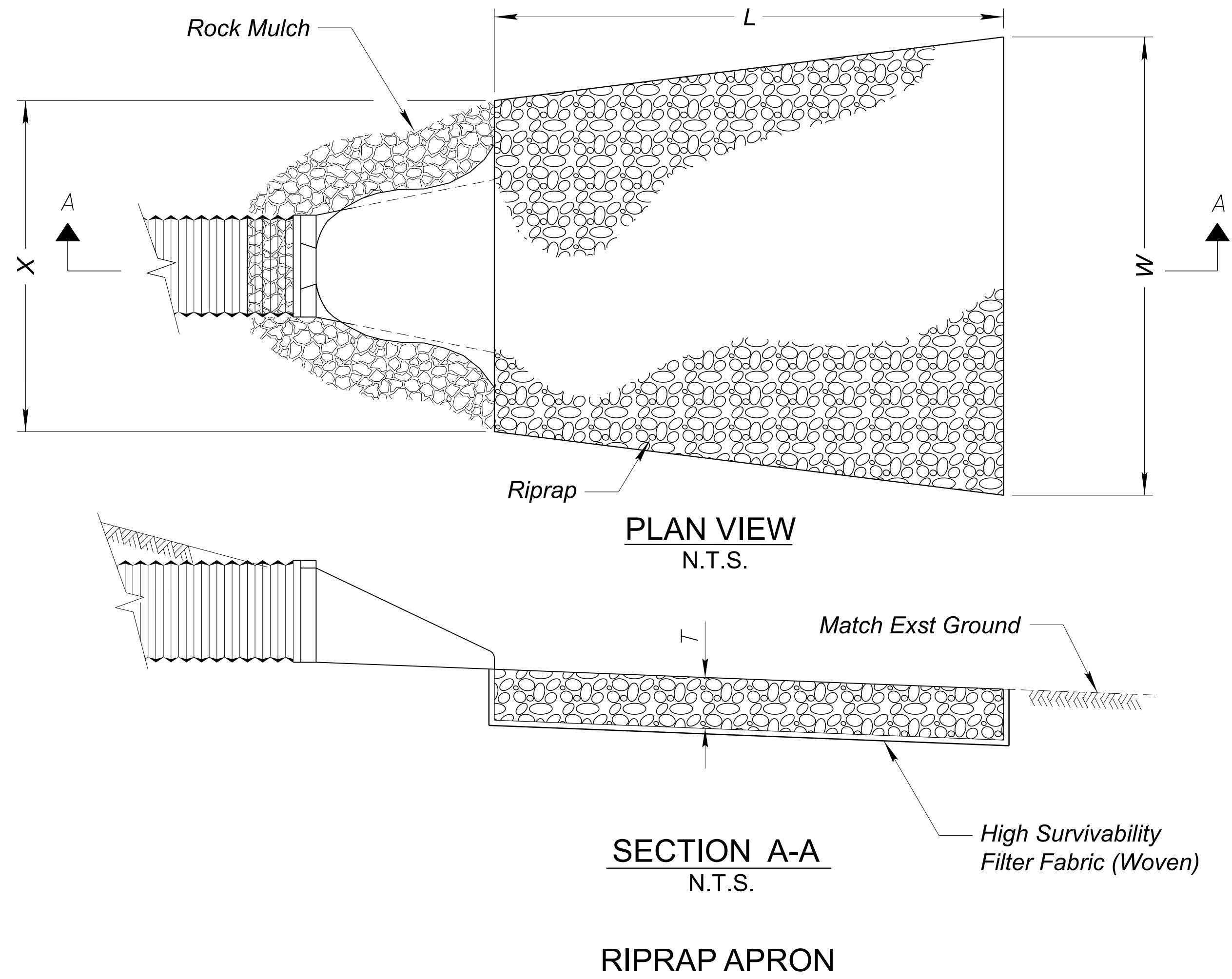
Stanley Consultants INC.

36657
JOEL P. McCARTY
Professional Engineer
No. 16021
Exp. 12/31/2026
Stanley Consultants INC.

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

DRAINAGE DETAIL SHEET
DETAIL DA
METAL SAFETY END SECTION

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	18	58	
STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD						DWG NO. D-02.01
	TRACS NO. F0624 01C						OF



DUMPED RIPRAP APRON FOR CULVERTS						
Culvert Ref No.	Design Riprap D ₅₀ (in)	X (ft)	L (ft)	W (ft)	T (ft)	Qty (CY)
PE 2	12	9	17	20	2	18
1	6	6	8	11	1	3
Total =						21

Abbreviations:

PE - Pipe Extension

Note:

Riprap Dimensions Shown Represent the Minimum Installation Limits. Field Conditions Vary and may Require Adjustments to Dimensions and Shape.

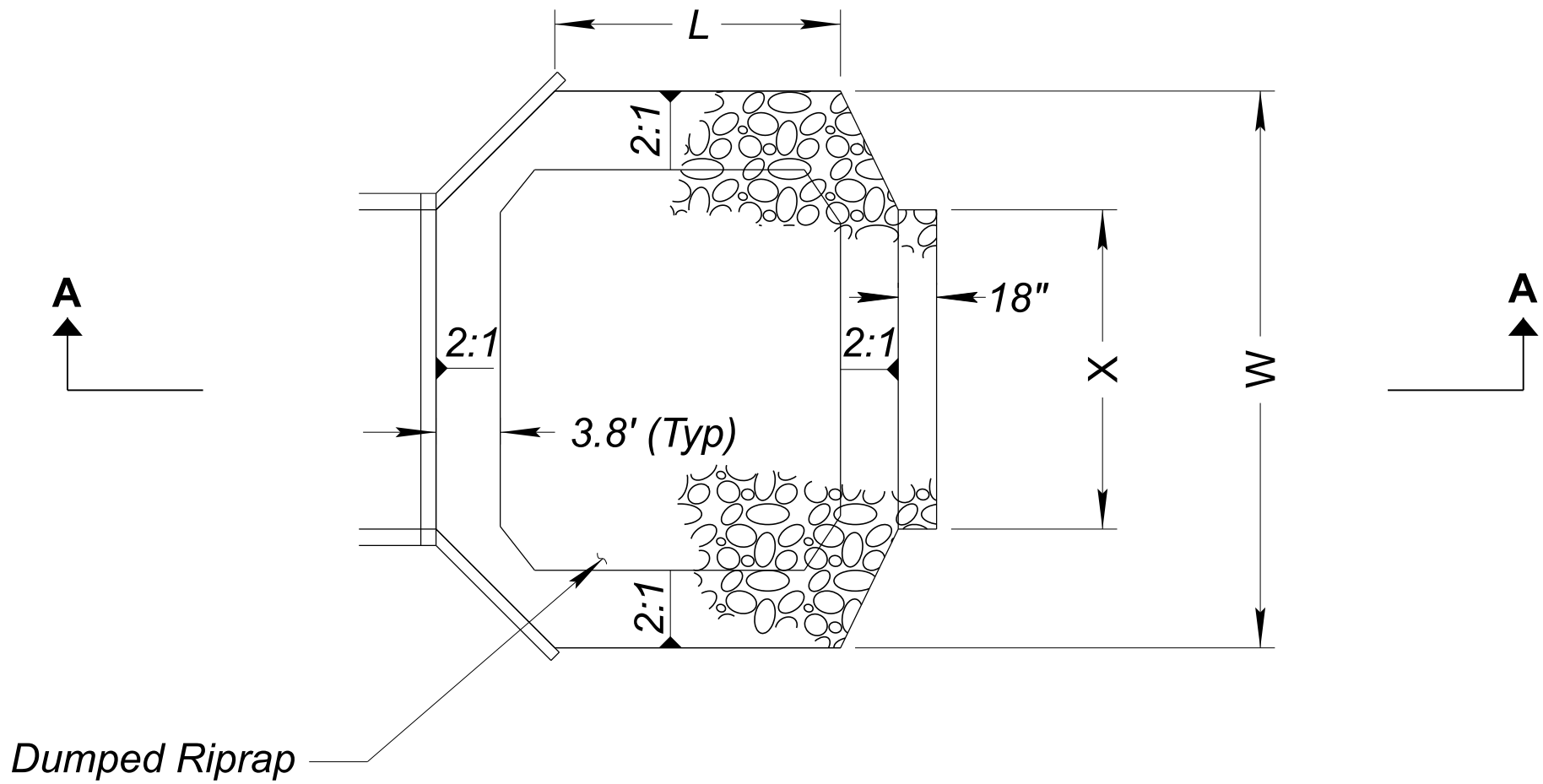
DESIGN GRADATIONS FOR RIPRAP				
Gradation		Riprap Classifications (D ₅₀)		
% Passing	Size	6"	9"	12"
100-90	2.0 D ₅₀	12	18	24
85-70	1.5 D ₅₀	9	12	18
50-30	1.0 D ₅₀	6	9	12
15-5	0.67 D ₅₀	4	6	8
5-0	0.33 D ₅₀	2	3	4

DETAIL DB

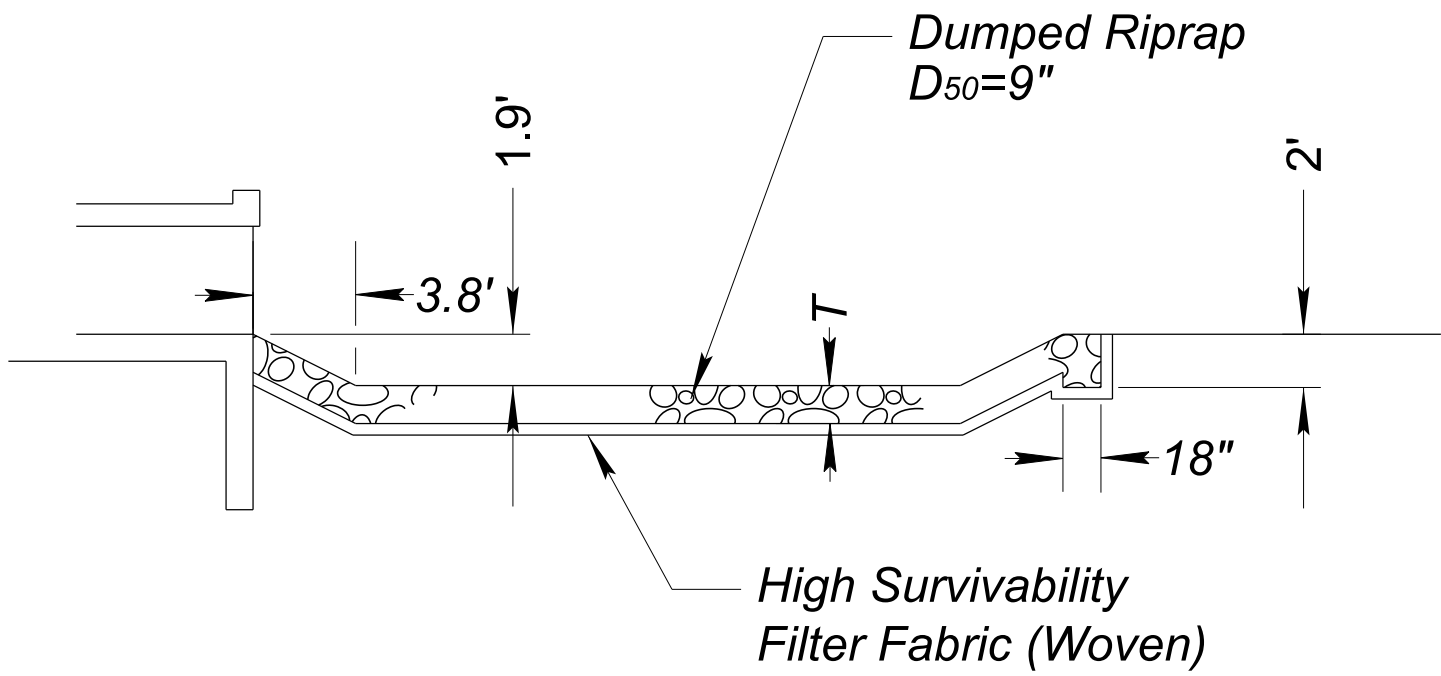
DUMPED RIPRAP APRON DETAIL

	<table><tr><th></th><th>NAME</th><th>DATE</th></tr><tr><td>DESIGN</td><td>JL</td><td>07/26</td></tr><tr><td>DRAWN</td><td>RM</td><td>07/26</td></tr><tr><td>CHECKED</td><td>JPM</td><td>07/26</td></tr></table>			NAME	DATE	DESIGN	JL	07/26	DRAWN	RM	07/26	CHECKED	JPM	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	NAME	DATE																						
DESIGN	JL	07/26																						
DRAWN	RM	07/26																						
CHECKED	JPM	07/26																						
3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200 Stanley Consultants INC.		DRAINAGE DETAIL SHEET DETAIL DB DUMPED RIPRAP APRON DETAIL		MILEPOST	089A YV 362	A89-B(225)T	19	58																
				STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD					DWG NO. D-02.02														
				TRACS NO. F0624 01C					____ OF ____															

DUMPED RIPRAP BASIN FOR CULVERTS						
Culvert Ref No.	Design Riprap D ₅₀ (in)	X (ft)	L (ft)	W (ft)	T (ft)	Qty (CY)
BE 3	9	31	22	38.0	1.5	71
4	9	10	40	17.6	1.5	46
Total =						117



PLAN VIEW
N.T.S.



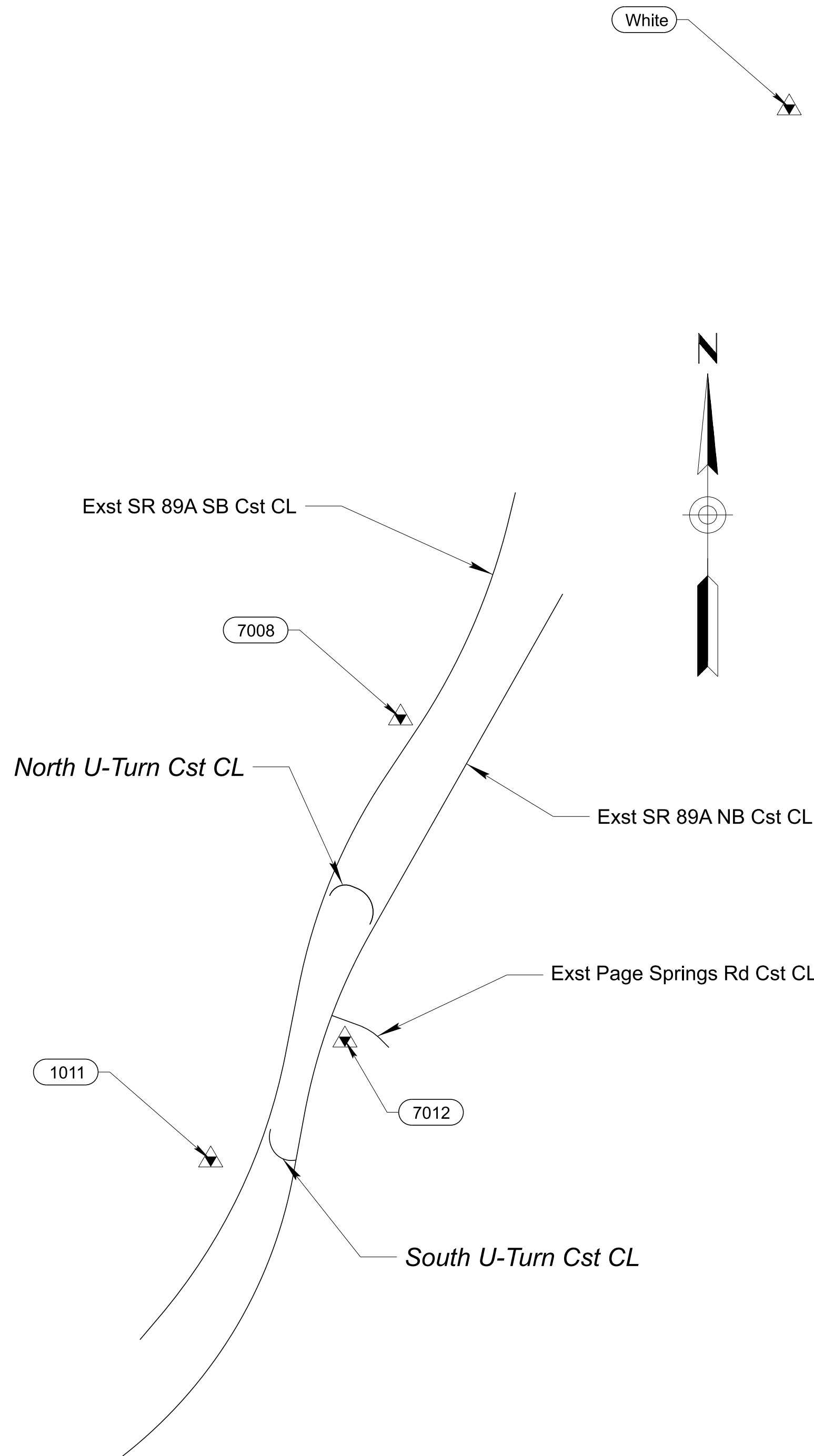
SECTION A-A
N.T.S.

NOTES:

1. Align basin within existing wash so that the culvert discharges into the plunge pool and is perpendicular to the flow line of the existing channel.
2. Warp basin to conform to natural stream channel. Top of riprap in floor of basin should be at the same elevation or lower than natural channel bottom. Basin width may be reduced to conform to existing wash geometry to not create additional grading.
3. See Detail DB for Riprap Gradations.

DETAIL DC
RIPRAP BASIN

	<table><tr><th></th><th>NAME</th><th>DATE</th></tr><tr><td>DESIGN</td><td>JL</td><td>07/26</td></tr><tr><td>DRAWN</td><td>RM</td><td>07/26</td></tr><tr><td>CHECKED</td><td>JPM</td><td>07/26</td></tr></table>		NAME	DATE	DESIGN	JL	07/26	DRAWN	RM	07/26	CHECKED	JPM	07/26	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602. 333-2000 DRAINAGE DETAIL SHEET DETAIL DC RIPRAP BASIN	<table><tr><td>ROUTE</td><td rowspan="3">F.H.W.A. Arizona Division</td><td>STATE</td><td>PROJECT NO.</td><td>FEDERAL ID NO.</td><td>SHEET NO.</td><td>TOTAL SHEETS</td><td>RECORD DRAWING</td></tr><tr><td>MILEPOST</td><td>ARIZ.</td><td>089A YV 362</td><td>A89-B(225)T</td><td>20</td><td>58</td><td></td></tr><tr><td>STRUCTURE NO.</td><td colspan="5">SR89A AT PAGE SPRINGS ROAD</td><td>DWG NO. D-02.03</td></tr><tr><td colspan="2"></td><td colspan="2">TRACS NO. F0624 01C</td><td colspan="4">____ OF ____</td></tr></table>	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	MILEPOST	ARIZ.	089A YV 362	A89-B(225)T	20	58		STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD					DWG NO. D-02.03			TRACS NO. F0624 01C		____ OF ____			
		NAME	DATE																																										
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	CHECKED	JPM	07/26																																										
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING																																						
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	20	58																																							
STRUCTURE NO.		SR89A AT PAGE SPRINGS ROAD					DWG NO. D-02.03																																						
		TRACS NO. F0624 01C		____ OF ____																																									



NOTES:

ESS Project Name: LS 1445

The following parameters were set for the basis of survey:

BASIS OF BEARINGS:

ADOT Engineering Survey Services surveyed and provided coordinates for the project, using direct GPS satellite measurements. Coordinates are based on NAD 83/2011, Arizona State Plane Central Zone (0202), International feet, with a Grid Adjustment Factor (GAF) of 1.00028 applied.

Control Points used for this project include:
K 31 RESET and WHITE

BASIS OF ELEVATIONS

NGS monument stamped "K 31 RESET", with elevation 3631.11 feet (NAVD '88) was held as basis of elevations for this project.

BASIS OF ALIGNMENT AND STATIONS:

Best fit alignment was based on split of existing edge of pavement survey points and R/W Markers located in the field.

The alignment stationing was tied to NB P.O.T. Sta 538+47.05.

Record Drawing ACSTP-BR-366(39)P was used to construct the alignment file.

Units = International Feet
1 Foot = 0.3048 Meter Exactly

All bearings are grid bearings, distance are grounded distances, and coordinates are ground coordinates.

The coordinates provided are shown to three decimal places for calculation purposes and are not representative of the precision of the survey measurements.

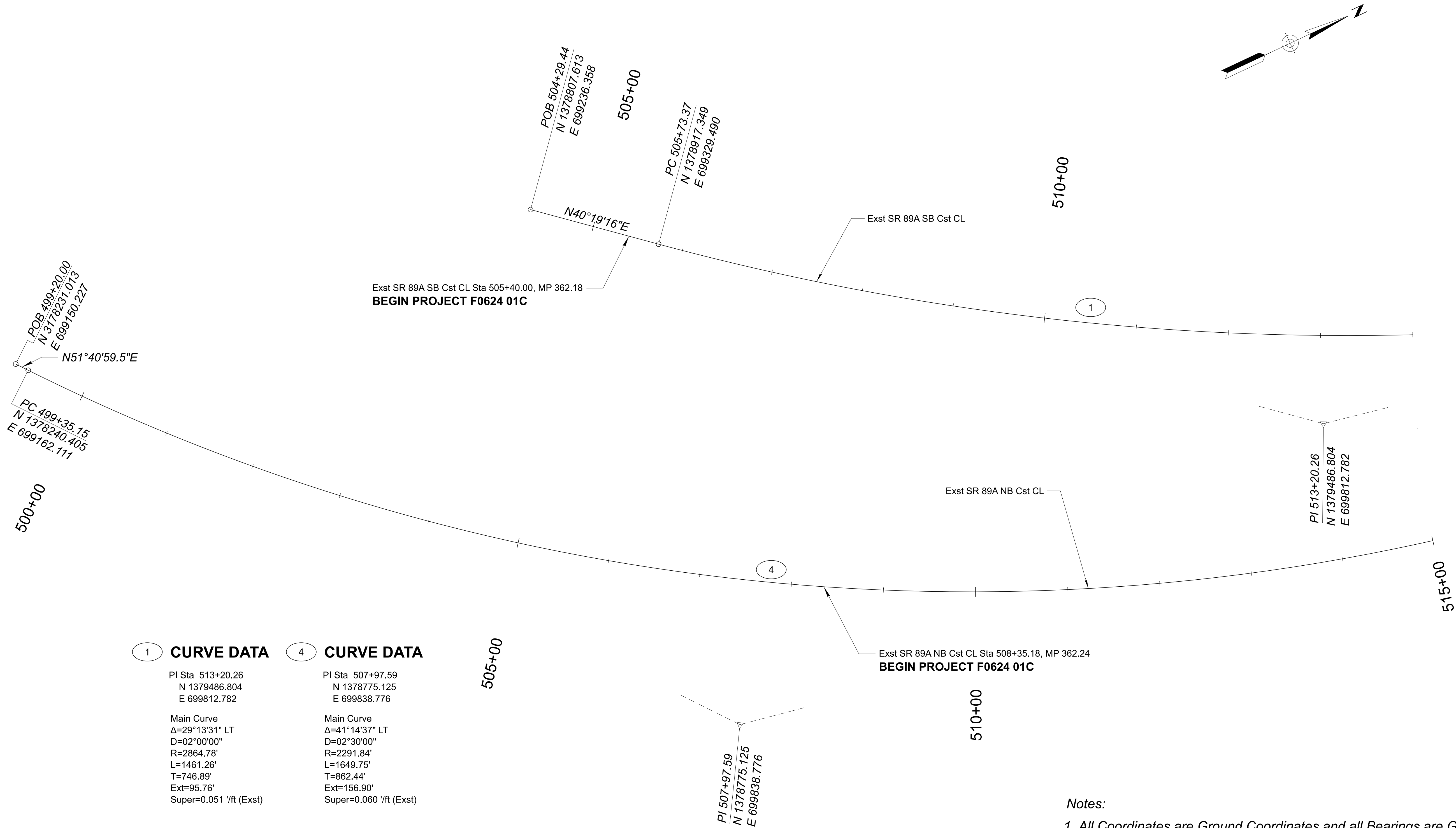
Survey is based on coordinates derived from ADOT Project ACSTP-BR-366(39)P. ADOT Engineering Survey Services surveyed and provided the coordinates for project.

LEGEND

-  Control Point
-  Control Point Identification

PRIMARY NGS CONTROL				
Name	Ground (E)	Ground (N)	Elevation	Description
K 31 RESET	697281.293	1376372.967	3631.11	NGS ES0482
WHITE	702446.961	1384905.152	4002.40	NGS ES1038

PROJECT SITE CONTROL				
Name	Ground (E)	Ground (N)	Elevation	Description
7008	700523.386	1381884.382	3795.60	3" ADOT AC
7012	700247.802	1380287.758	3743.91	3" ADOT AC
1011	699583.596	1379694.073	3751.87	3" ADOT AC



1 CURVE DATA

PI Sta 513+20.26
N 1379486.804
E 699812.782

Main Curve
Δ=29°13'31" LT
D=02°00'00"
R=2864.78'
L=1461.26'
T=746.89'
Ext=95.76'
Super=0.051 '/ft (Exst)

4 CURVE DATA

PI Sta 507+97.59
N 1378775.125
E 699838.776

Main Curve
Δ=41°14'37" LT
D=02°30'00"
R=2291.84'
L=1649.75'
T=862.44'
Ext=156.90'
Super=0.060 '/ft (Exst)

Notes:

1. All Coordinates are Ground Coordinates and all Bearings are Grid Bearings.
2. All Bearings and Angles have been Rounded to the Nearest Second.
3. Use the Control Points Provided and their Respective State Plane Coordinates Re-establish the Centerline of each Roadway.
4. G.A.F. = 1.00028



	NAME	DATE
DESIGN	ZSZ	07/26
DRAWN	RM	07/26
CHECKED	CML	07/26

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Phone: (602) 335-2200

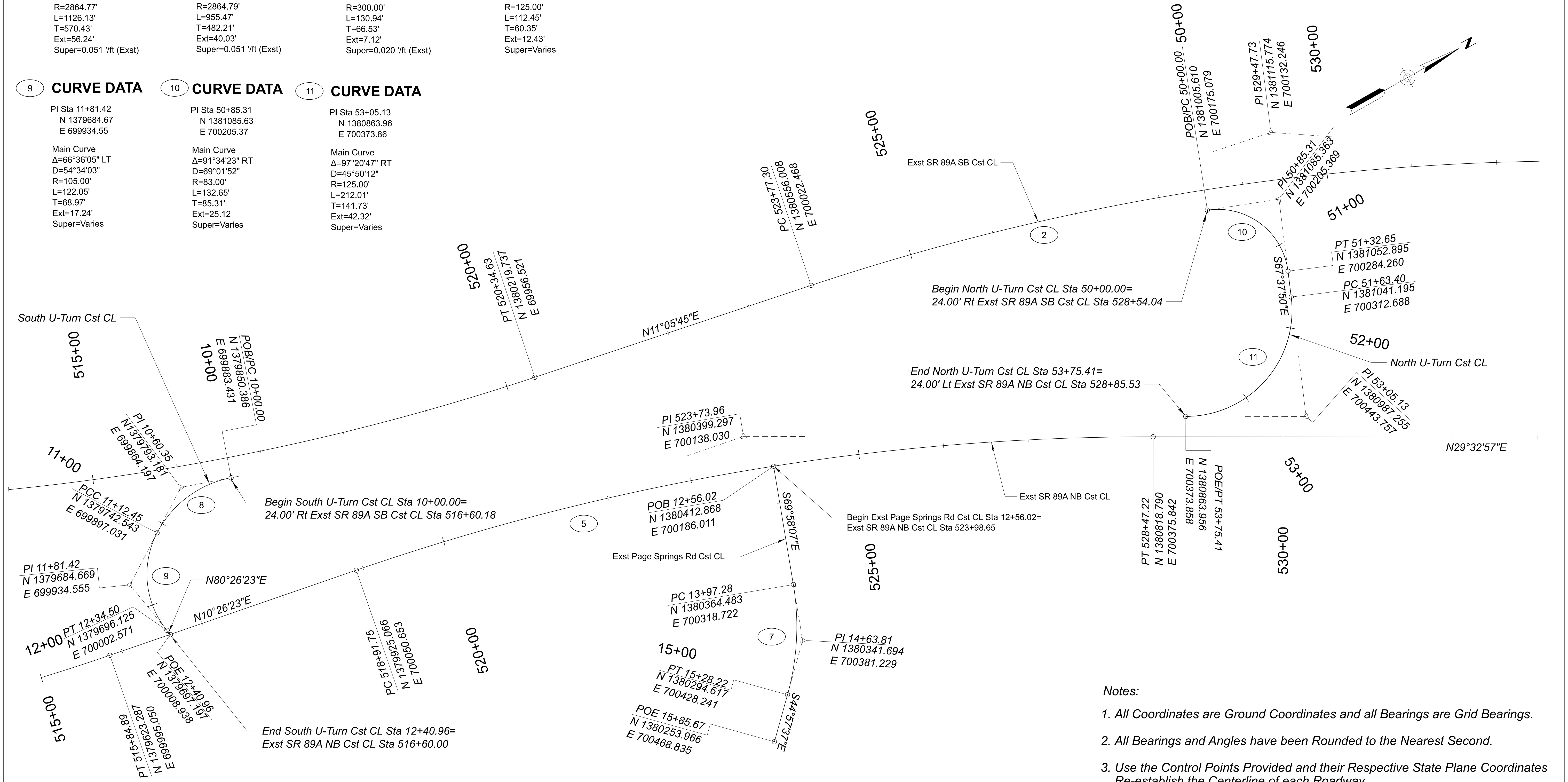
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ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES
GEOMETRIC LAYOUT & DATA

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	089A YV 362	FEDERAL ID NO.	A89-B(225)T	SHEET NO.	22	TOTAL SHEETS	58	RECORD DRAWING
MILEPOST	SR89A AT PAGE SPRINGS ROAD											DWG NO. C-02.01
STRUCTURE NO.	TRACS NO. F0624 01C											OF

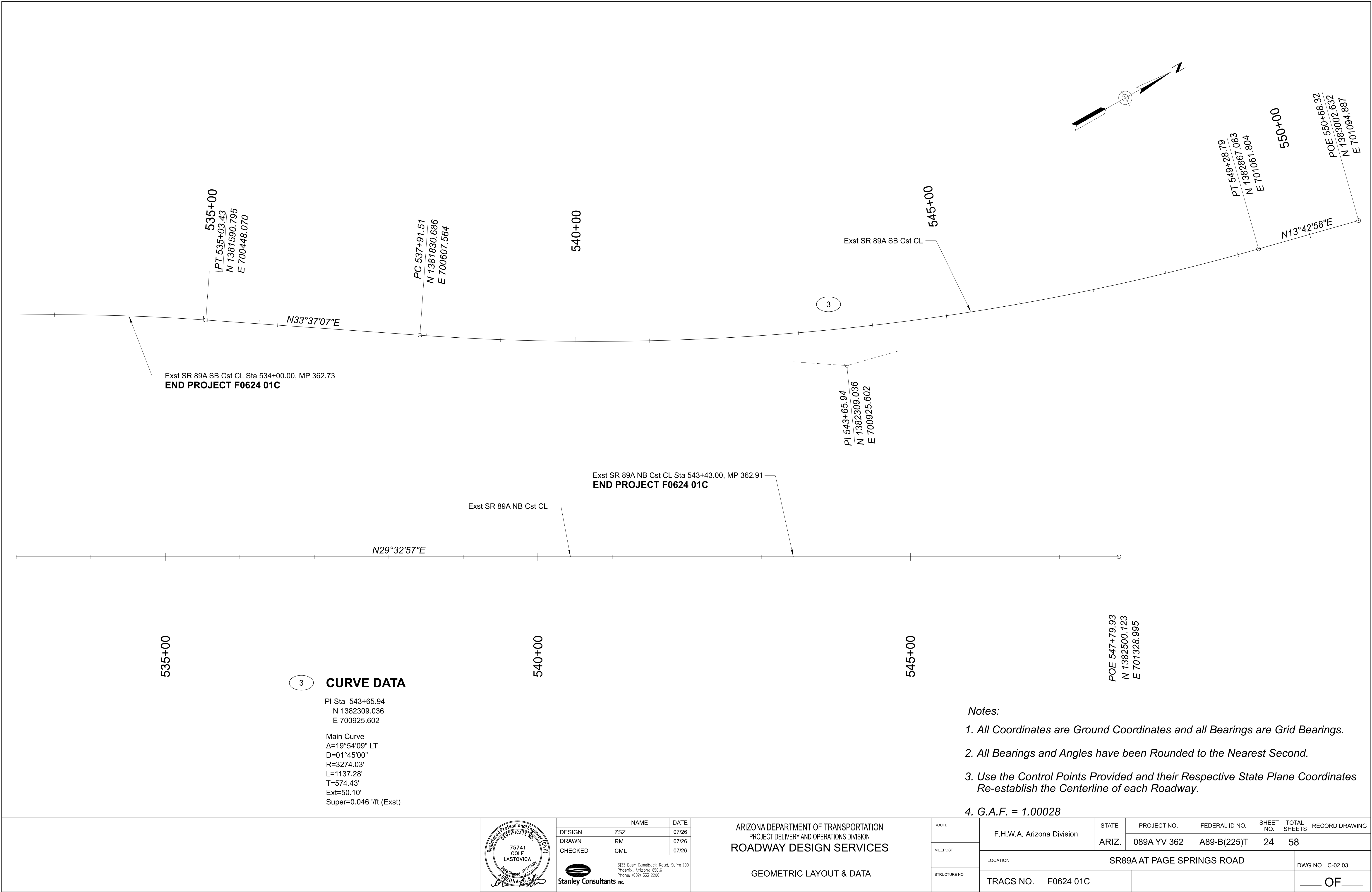
2	CURVE DATA	5	CURVE DATA	7	CURVE DATA	8	CURVE DATA
PI Sta 529+47.73 N 1381115.774 E 700132.246		PI Sta 523+73.96 N 1380399.297 E 700138.030		PI Sta 14+63.81 N 1380341.694 E 700381.229		PI Sta 10+60.35 N 1379793.18 E 699864.20	
Main Curve Δ=22°31'22" RT D=02°00'00" R=2864.77' L=1126.13' T=570.43' Ext=56.24' Super=0.051 '/ft (Exst)		Main Curve Δ=19°06'34" RT D=02°00'00" R=2864.79' L=955.47' T=482.21' Ext=40.03' Super=0.051 '/ft (Exst)		Main Curve Δ=25°00'30" RT D=19°05'55" R=300.00' L=130.94' T=66.53' Ext=7.12' Super=0.020 '/ft (Exst)		Main Curve Δ=51°32'37" LT D=45°50'12" R=125.00' L=112.45' T=60.35' Ext=12.43' Super=Varies	

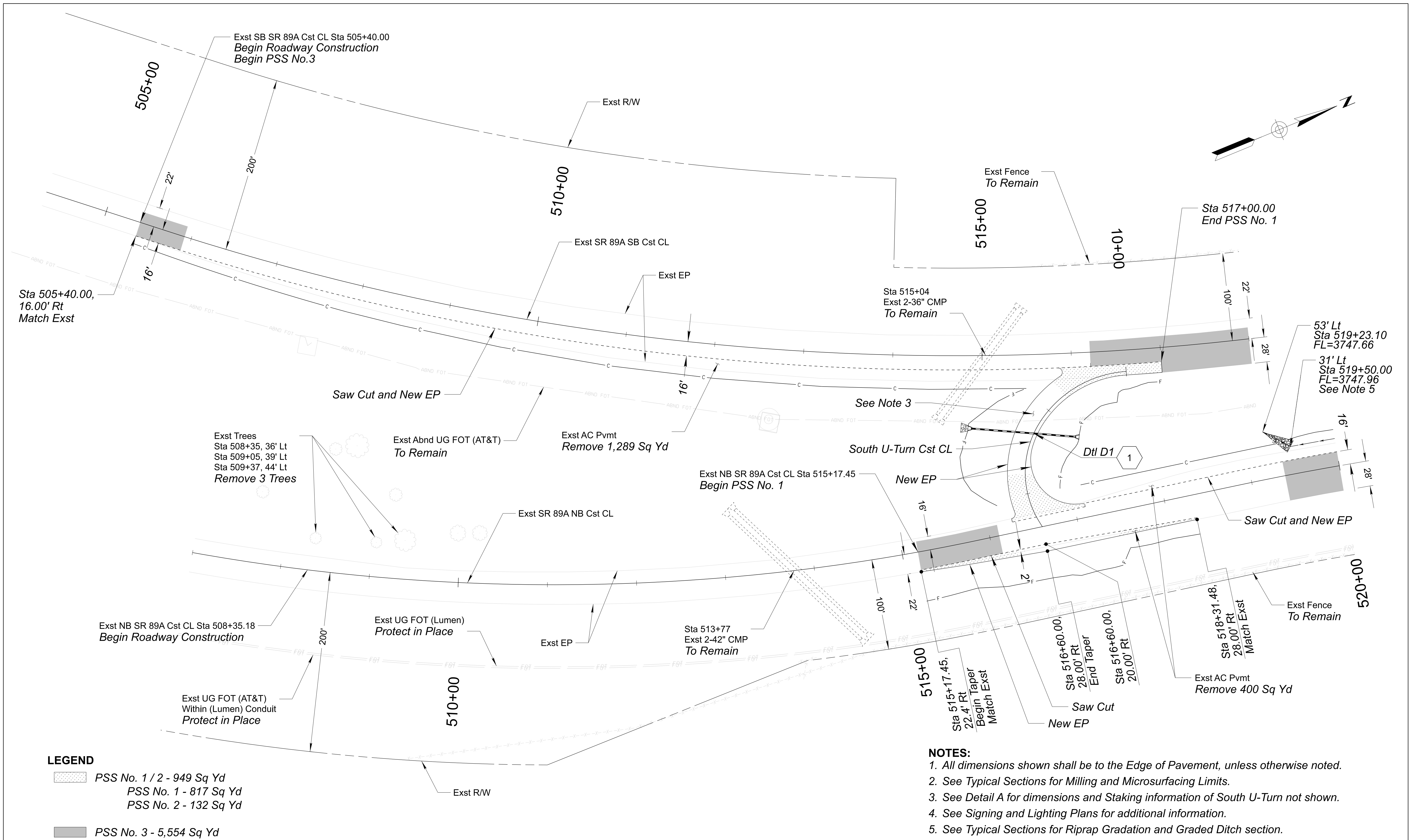
9	CURVE DATA	10	CURVE DATA	11	CURVE DATA
PI Sta 11+81.42 N 1379684.67 E 699934.55		PI Sta 50+85.31 N 1381085.63 E 700205.37		PI Sta 53+05.13 N 1380863.96 E 700373.86	
Main Curve Δ=66°36'05" LT D=54°34'03" R=105.00' L=122.05' T=68.97' Ext=17.24' Super=Varies		Main Curve Δ=91°34'23" RT D=69°01'52" R=83.00' L=132.65' T=85.31' Ext=25.12 Super=Varies		Main Curve Δ=97°20'47" RT D=45°50'12" R=125.00' L=212.01' T=141.73' Ext=42.32' Super=Varies	



- Notes:
1. All Coordinates are Ground Coordinates and all Bearings are Grid Bearings.
 2. All Bearings and Angles have been Rounded to the Nearest Second.
 3. Use the Control Points Provided and their Respective State Plane Coordinates Re-establish the Centerline of each Roadway.
 4. G.A.F. = 1.00028

	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES		ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	ZSZ	07/26			MILEPOST			089A YV 362	A89-B(225)T	23	58	
	DRAWN	RM	07/26										
	CHECKED	CML	07/26	GEOMETRIC LAYOUT & DATA			LOCATION SR89A AT PAGE SPRINGS ROAD						
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 335-2200						TRACS NO. F0624 01C				OF			





LEGEND

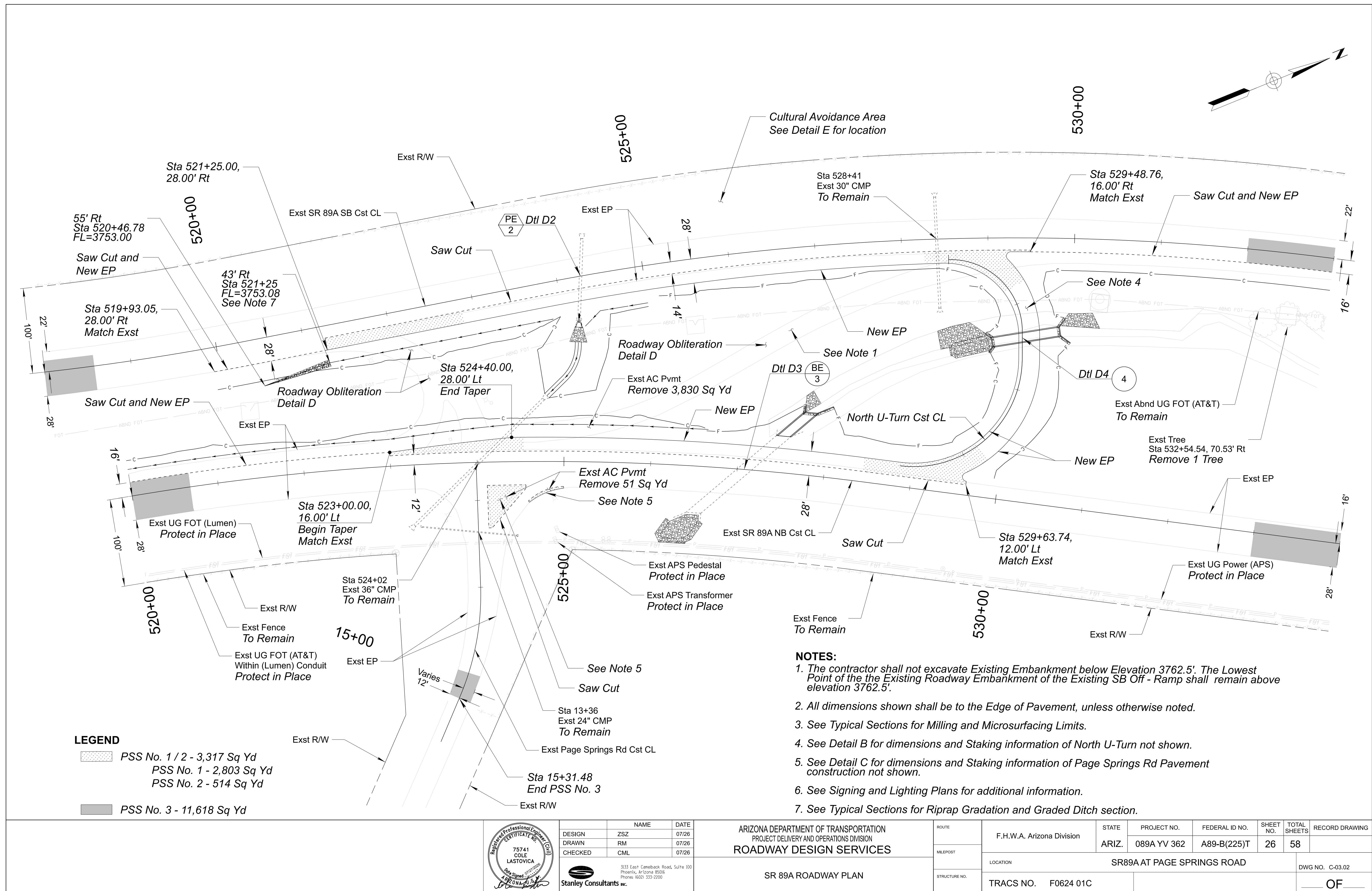
- PSS No. 1 / 2 - 949 Sq Yd
PSS No. 1 - 817 Sq Yd
PSS No. 2 - 132 Sq Yd

 PSS No. 3 - 5,554 Sq Yd

NOTES:

1. All dimensions shown shall be to the Edge of Pavement, unless otherwise noted.
2. See Typical Sections for Milling and Microsurfacing Limits.
3. See Detail A for dimensions and Staking information of South U-Turn not shown.
4. See Signing and Lighting Plans for additional information.
5. See Typical Sections for Riprap Gradation and Graded Ditch section.

	NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	ZSZ	07/26		MILEPOST			089A YV 362	A89-B(225)T	25	58	
	DRAWN	RM	07/26		STRUCTURE NO.							
	CHECKED	CML	07/26	SR 89A ROADWAY PLAN		LOCATION		SR89A AT PAGE SPRINGS ROAD		DWG NO. C-03.01		
					TRACS NO. F0624 01C				OF			



- NOTES:**
1. The contractor shall not excavate Existing Embankment below Elevation 3762.5'. The Lowest Point of the the Existing Roadway Embankment of the Existing SB Off - Ramp shall remain above elevation 3762.5'.
 2. All dimensions shown shall be to the Edge of Pavement, unless otherwise noted.
 3. See Typical Sections for Milling and Microsurfacing Limits.
 4. See Detail B for dimensions and Staking information of North U-Turn not shown.
 5. See Detail C for dimensions and Staking information of Page Springs Rd Pavement construction not shown.
 6. See Signing and Lighting Plans for additional information.
 7. See Typical Sections for Riprap Gradation and Graded Ditch section.

LEGEND

■ PSS No. 1 / 2 - 3,317 Sq Yd
PSS No. 1 - 2,803 Sq Yd
PSS No. 2 - 514 Sq Yd

■ PSS No. 3 - 11,618 Sq Yd

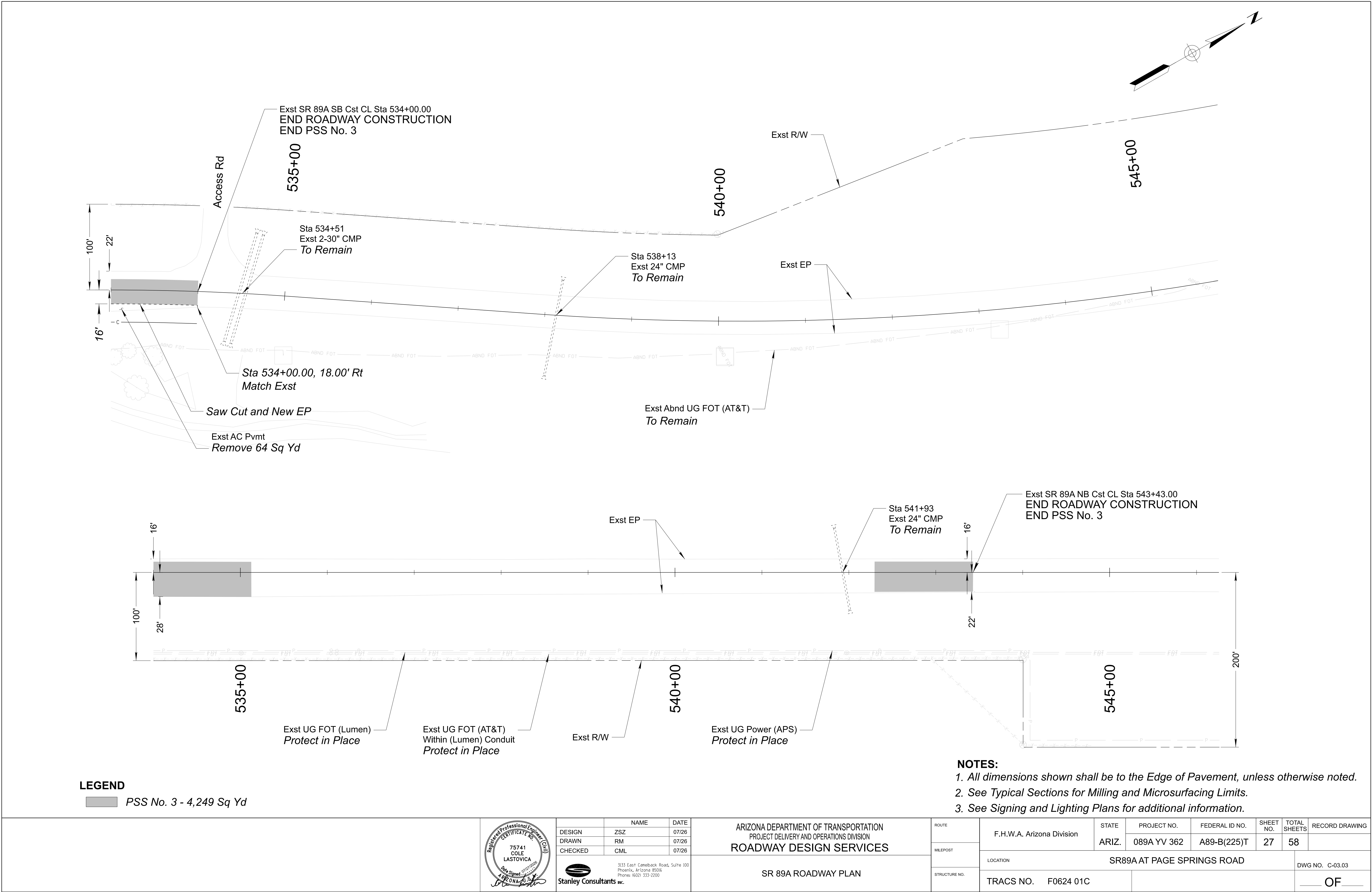


	NAME	DATE
DESIGN	ZSZ	07/26
DRAWN	RM	07/26
CHECKED	CML	07/26

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Phone: (602) 335-2200

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ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES	ROUTE MILEPOST STRUCTURE NO.	F.H.W.A. Arizona Division ARIZ. LOCATION SR89A AT PAGE SPRINGS ROAD TRACS NO. F0624 01C	STATE ARIZ.	PROJECT NO. 089A YV 362	FEDERAL ID NO. A89-B(225)T	SHEET NO. 26	TOTAL SHEETS 58	RECORD DRAWING DWG NO. C-03.02 OF
---	------------------------------------	---	----------------	----------------------------	-------------------------------	-----------------	--------------------	---



ACTIVITY NO.	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL	COMMENTS
1	Install Advance Signing.	Install standard long-term advance warning signs and changeable message boards (CMB) as shown on the advance warning sign detail on Dwg No. T-02.03. During sign installation, traffic control shall be shown as on the Manual of Uniform Traffic Control Devices (MUTCD) TA-4 for short duration or mobile operation on shoulder. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present.	Signs shall be placed on embedded posts for the duration of the construction. Shadow vehicles shall be equipped with a truck mounted attenuator.
2	Mill SR 89A to remove existing 1/2-inch AR-ACFC overlay.	Close right or left lane as needed in both the northbound and southbound directions per ADOT Temporary Traffic Control Design Guidelines (TCDG) Figure SA-5R or Figure SA-5L. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present. Maintain access to Page Springs Road using the existing left-turn and right-turn lanes.	Install vertical panels at spacing per ADOT Temporary TCDG based on posted speed limit.
3	Construct north and south U-turn movements, northbound SR 89A inside widening north of the existing intersection, and southbound SR 89A inside widening north of the existing intersection. Complete modifications to existing lighting and install new lighting. Construct drainage structures.	Close left lane on SR 89A in both the northbound and southbound directions per ADOT TCDG Figure SA-5L. Close existing northbound to soundbound left turn lane. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present. Maintain access to Page Springs Road using the existing southbound and westbound left-turn lane and northbound right-turn lane.	Install vertical panels at spacing per ADOT Temporary TCDG based on posted speed limit. Construction of north U-turn and inside widening shall be limited to areas that do not impede on the southbound to eastbound and westbound to southbound traffic movements at the existing intersection.
4	Construct northbound SR 89A outside widening. Complete modifications to existing lighting and install new lighting.	Close right lane on northbound SR 89A per ADOT TCDG Figure SA-5R. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present. Maintain access to Page Springs Road using the existing southbound and westbound left-turn lane and northbound right turn lane.	Install vertical panels at spacing per ADOT Temporary TCDG based on posted speed limit.
5	Construct northbound and southbound inside lane widening and AC pavement removal at the existing SR 89A and Page Springs intersection. Complete construction of north U-turn. Complete modifications to existing lighting and install new lighting.	Close left lane on SR 89A in both the northbound and southbound directions per ADOT TCDG Figure SA-5L. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present. Westbound to southbound left-turn shall be detoured to the Angel Valley Road intersection per Dwg No. T-02.04.	Install vertical panels at spacing per ADOT Temporary TCDG based on posted speed limit.
6	Microsurface SR 89A	Close right or left lane as needed in both the northbound and southbound directions per ADOT Traffic Control Design Guidelines (TCDG) Figure SA-5R or Figure SA-5L. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present.	Shadow vehicles shall be equipped with a truck mounted attenuator.
7	Apply temporary paint. Place final pavement markings, install rumble strips, and install new signs. Remove Construction Signs including Advance Signing.	Provide traffic control per Figures SA-19D and SA-19E in ADOT's TCDG and per MUTCD TA-4. Provide traffic control per Figure SA-12 in ADOT TCDG when workers are present. During sign removal, traffic control shall be shown as on the MUTCD TA-4 for short duration or mobile operation on shoulder	Shadow vehicles shall be equipped with a truck mounted attenuator.

	DESIGN	HEN	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	SRH	07/26		ARIZ.		089A YV 362	A89-B(225)T	28	58		
	CHECKED	NFC	07/26									
	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200			TRAFFIC CONTROL CONSTRUCTION ACTIVITY	MILEPOST	LOCATION SR89A AT PAGE SPRINGS ROAD				DWG NO. T-01.01		
					STRUCTURE NO.	TRACS NO. F0624 01C					____ OF ____	

TRAFFIC CONTROL GENERAL NOTES:

1.

The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications at no cost to the Department. All traffic control plans are subject to the approval of the Engineer before beginning construction.

2.

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

3.

All signing, striping, barrier, barricades, and lane closures shall be in accordance with the 11th edition of the Manual on Uniform Traffic Control Devices (MUTCD) including the 2025 ADOT Temporary Traffic Control Design Guidelines (TCDG).

4.

All drawings are schematic only and not to scale.

5.

All existing signs in conflict with the construction signs shall be removed, relocated, or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer at no additional cost to the Department. Any signs damaged by the contractor or contractor activities shall be replaced at no additional cost to the Department.

6.

The retroreflective sheeting on all construction signs shall meet criteria established in Section 1007 of the Specifications.

7.

All long-term signs shown on the plans shall be mounted on embedded posts. Signs installed on embedded posts shall be mounted at a minimum height of 7 feet as measured from the bottom of the sign to the near edge of the pavement. All other short-term signs may be installed on portable stands at the height recommended by the portable stand manufacturer.

8.

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

9.

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

10.

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

11.

Type C steady-burning yellow lights shall be mounted on every barricade when used as channelizing devices during nighttime activities.

12.

Channelizing devices shall be placed per ADOT Temporary TCDG based on posted speed limit.

13.

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 of 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.

14.

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

15.

Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.

16.

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.

17.

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

18.

When stripe obliteration is necessary, it shall be accomplished by an approved method. Painting over striping, removal of pavement, and overlaying pavement do not constitute stripe obliteration. The contractor shall obliterate striping as shown on the plans and as needed to ensure no conflicting striping is present.

19.

The contractor shall install signing for "Fines Double Workers Present" in work zones, when allowed by the Engineer, which shall generally conform to Figure SA-12 of ADOT 2025 Temporary TCDG. Such signing shall only be in place during working periods when workers are present. The contractor shall remove "Fines Double Workers Present" signage when workers are not present.

20.

The contractor shall install changeable message boards as directed by the Engineer and as shown in the ADOT Traffic Control Design Guidelines. The messages shall be displayed such that the entire message can be read twice at operating speed from no further than 650 feet. The contractor shall locate the changeable message boards just off the paved roadway in compliance with the clear zone requirements or as directed by the Engineer. The Engineer will determine the messages on the changeable message boards to coincide with construction activities. Changeable message boards shall be in place at least 14 days prior to construction activities. For each changeable message board used on the project, the contractor shall position 10 Type 2 barricades each affixed with a Type C steady-burning light for nighttime use around the changeable message board. The contractor shall only position changeable message boards where and when approved by the Engineer.

21.

The contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.

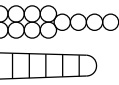
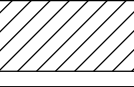
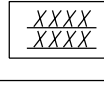
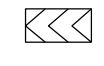
22.

The contractor shall provide flaggers and uniformed officers as directed by the Engineer.

23.

If necessary, the location of the advance warning sign(s) on embedded posts shall be adjusted by the contractor to avoid utilities and as approved by the Engineer.

LEGEND:

	Direction Of Travel		Temporary Concrete Barrier
	Temporary Impact Attenuation Device		Temporary Pavement
	Sign On Spring Stand		Work Zone
	Sign On Rigid Stand		CMB - Changeable Message Board
	Sign On Embedded Posts		Flashing Arrow Panel
	Sign Mounted on Barrier		Flashing Light & Warning Flags
	Type 2 Barricade		Vertical Panel

DESIGN

HEN

07/26

DRAWN

SRH

07/26

CHECKED

NFC

07/26



Stanley Consultants
INC.

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Phoenix, Arizona 85016
Phone: (602) 333-2200

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

TRAFFIC CONTROL
GENERAL NOTES AND LEGEND

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

STATE

ARIZ.

PROJECT NO.

089A YV 362

FEDERAL ID NO.

A89-B(225)T

SHEET NO.

29

TOTAL SHEETS

58

RECORD DRAWING

LOCATION

SR89A AT PAGE SPRINGS ROAD

DWG NO.

T-02.01

TRACS NO.

F0624 01C

OF

c:\projects\datasource-1\common\id1343905\I0624_tc_03.dgn | Model Name: I0624_tc_01

APPROXIMATE TRAFFIC CONTROL QUANTITIES										
BID ITEM NO.	ELEMENT OF WORK	UNIT	ADVANCE SIGNING	CONSTRUCTION PHASE						TOTAL
				Activity 2	Activity 3	Activity 4	Activity 5	Activity 6	Activity 7	
	ESTIMATED WORKING DAYS	DAYS	168*	4	64	5	14	5	11	120
7016030	BARRICADE (TYPE 1, TYPE 2, VERT.PANEL, TUBULAR MARKER)	EACH-DAY	5,644	424	6,784	235	1,484	471	0	15,042
7016033	PORTABLE SIGN STAND (SPRING TYPE)	EACH-DAY	2	80	1,472	55	334	106	114	2,163
7016035	WARNING LIGHT (TYPE A)	EACH-DAY	304	80	1,472	55	322	106	0	2,339
7016037	WARNING LIGHT (TYPE C)	EACH-DAY	5,644	424	6,784	235	1,484	471	0	15,042
7016039	EMBEDDED SIGN POST	EACH-DAY	2,280	0	0	0	0	0	0	2,280
7016050	TRUCK-MOUNTED ATTENUATOR	EACH-DAY	2	34	120	45	8	5	11	225
7016051	TEMPORARY SIGN (LESS THAN 10 S.F.)	EACH-DAY	310	0	0	0	48	0	38	396
7016052	TEMPORARY SIGN (10 S.F. OR MORE)	EACH-DAY	1,976	80	1,472	55	322	106	76	4,087
7016061	FLASHING ARROW PANEL	EACH-DAY	2	8	128	5	28	9	21	201
7016067	CHANGEABLE MESSAGE BOARD (CONTRACTOR FURNISHED)	EACH-DAY	332	0	0	0	0	0	0	332
7016082	FLAGGING SERVICES (LOCAL ENFORCEMENT OFFICER)(WITH AGENCY VEHICLE)	HOURL	0	32	16	16	16	24	0	104

* Quantities are based off of Calendar Days

		<table><tr><td>DESIGN</td><td>HEN</td><td>07/26</td></tr><tr><td>DRAWN</td><td>SRH</td><td>07/26</td></tr><tr><td>CHECKED</td><td>NFC</td><td>07/26</td></tr></table>	DESIGN	HEN	07/26	DRAWN	SRH	07/26	CHECKED	NFC	07/26	<table><tr><td colspan="2">ARIZONA DEPARTMENT OF TRANSPORTATION</td></tr><tr><td colspan="2">PROJECT DELIVERY AND OPERATIONS DIVISION</td></tr><tr><td colspan="2">TRAFFIC DESIGN SERVICES</td></tr><tr><td colspan="2">TRAFFIC CONTROL QUANTITIES</td></tr></table>	ARIZONA DEPARTMENT OF TRANSPORTATION		PROJECT DELIVERY AND OPERATIONS DIVISION		TRAFFIC DESIGN SERVICES		TRAFFIC CONTROL QUANTITIES		ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
			DESIGN	HEN	07/26																							
			DRAWN	SRH	07/26																							
			CHECKED	NFC	07/26																							
ARIZONA DEPARTMENT OF TRANSPORTATION																												
PROJECT DELIVERY AND OPERATIONS DIVISION																												
TRAFFIC DESIGN SERVICES																												
TRAFFIC CONTROL QUANTITIES																												
MILEPOST																												
STRUCTURE NO.	LOCATION					SR89A AT PAGE SPRINGS ROAD		DWG NO. T-02.02																				
TRACS NO.		F0624 01C						____ OF ____																				

1



ROAD
WORK
AHEAD

W20-1
* 36" x 36"
48" x 48"

2



SPEED
REDUCED
AHEAD

W3-5aAZ
48" x 48"

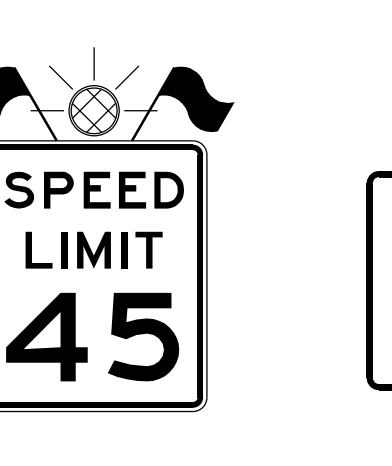
3



SPEED
LIMIT
55

R2-1(55)
48" x 60"
Black On
White

4



SPEED
LIMIT
45

R2-1(45)
48" x 60"
Black On
White

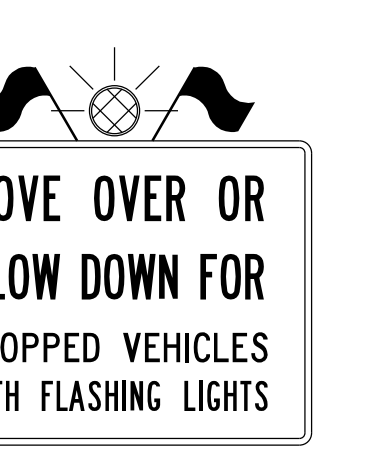
5



END
ROAD WORK
THANK YOU

G20-2AZ
48" x 36"

6

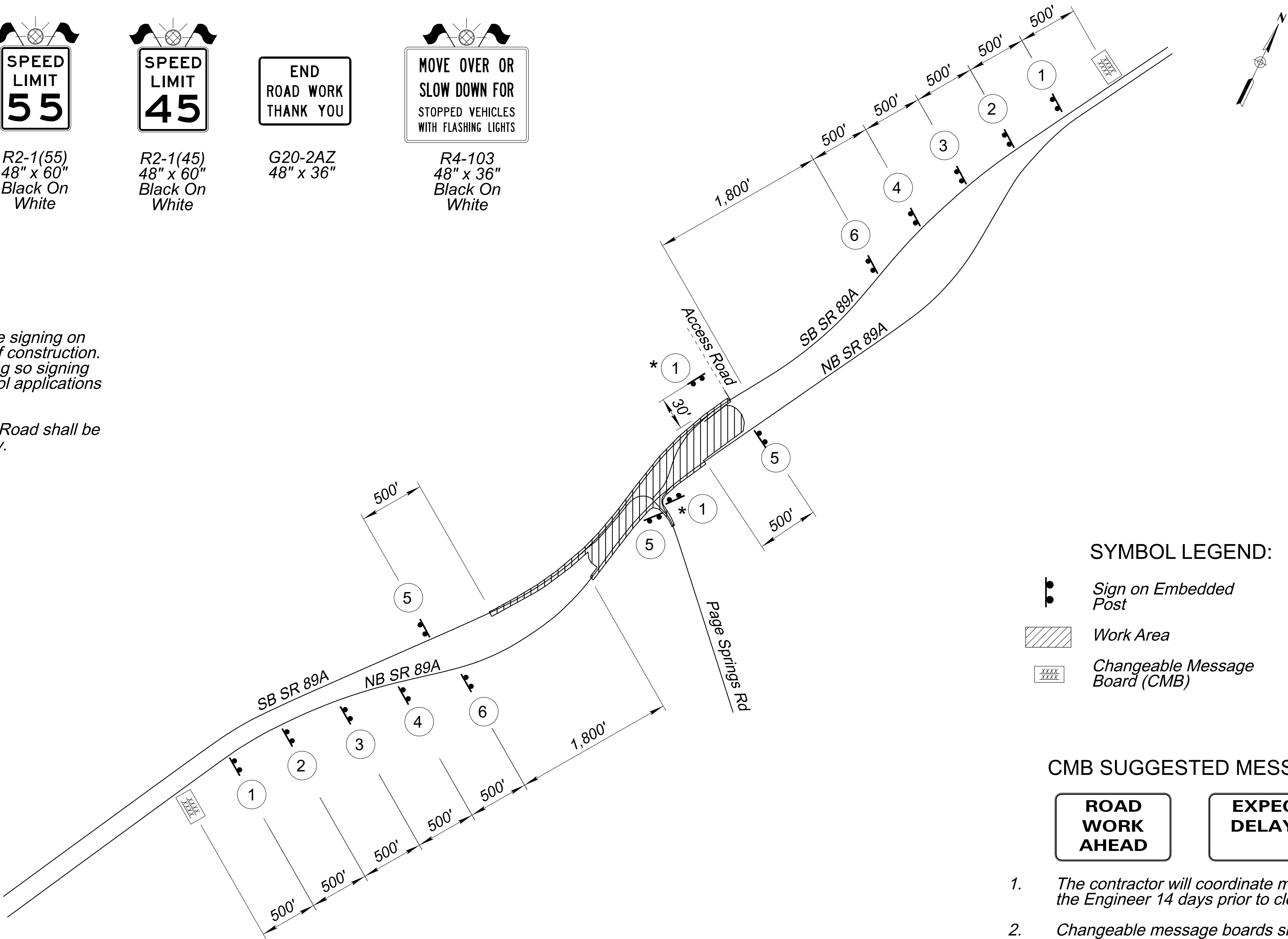


MOVE OVER OR
SLOW DOWN FOR
STOPPED VEHICLES
WITH FLASHING LIGHTS

R4-103
48" x 36"
Black On
White

NOTES:

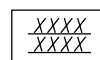
1. The contractor shall install advance signing on embedded posts for the duration of construction. The contractor shall position signing so signing does not overlap other traffic control applications used during construction.
2. Advance signing on Page Springs Road shall be installed within ADOT Right-of-Way.



SYMBOL LEGEND:

 Sign on Embedded Post

 Work Area

 Changeable Message Board (CMB)

CMB SUGGESTED MESSAGE:

ROAD
WORK
AHEAD

EXPECT
DELAYS

1. The contractor will coordinate message with the Engineer 14 days prior to closure.
2. Changeable message boards shall be installed 14 days prior to closures.



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26

 Stanley Consultants INC.

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

SR 89A & PAGE SPRINGS RD
TRAFFIC CONTROL
ADVANCE SIGNING DETAIL

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

STATE

PROJECT NO.

FEDERAL ID NO.

SHEET NO.

TOTAL SHEETS

RECORD DRAWING

ARIZ.

089A YV 362

A89-B(225)T

31

58

LOCATION

SR89A AT PAGE SPRINGS ROAD

DWG NO. T-02.03

TRACS NO.

F0624 01C

OF

1

DETOUR

SOUTH

ARIZONA

89A

↻

M4-8
24" x 12"
M3-3
24" x 12"
M1-5b
30" x 24"
M5-1R
24" x 18"

2

DETOUR

SOUTH

ARIZONA

89A

↻

M4-8
24" x 12"
M3-3
24" x 12"
M1-5b
30" x 24"
M5-Special
24" x 18"

3

DETOUR

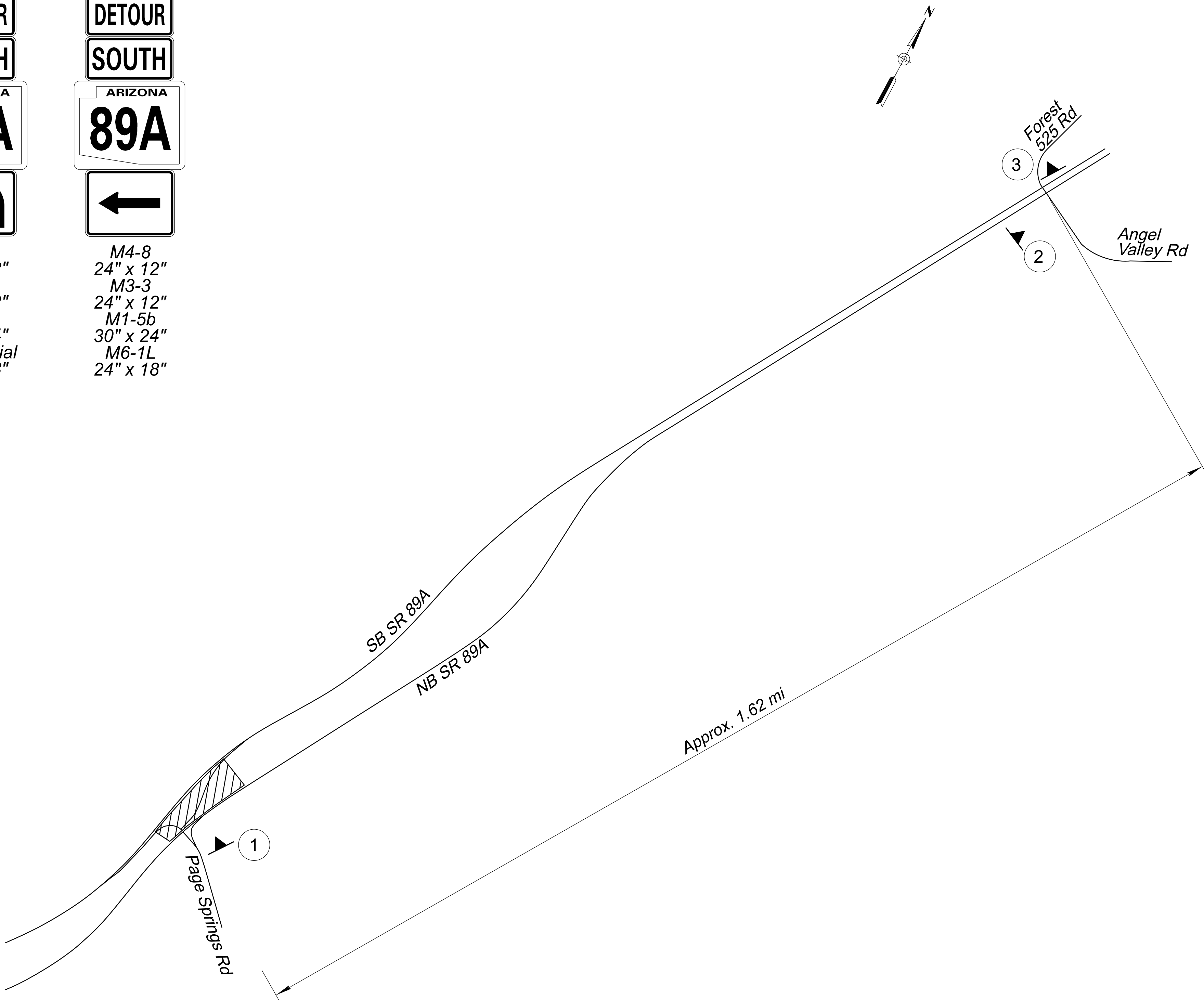
SOUTH

ARIZONA

89A

←

M4-8
24" x 12"
M3-3
24" x 12"
M1-5b
30" x 24"
M6-1L
24" x 18"



SYMBOL LEGEND:

▶

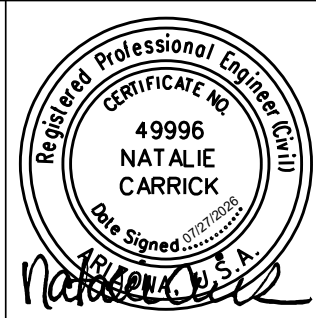
Sign on Spring Stand

XXXX
XXXX

Work Area

XXXX
XXXX

Changeable Message Board (CMB)



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26

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

SR 89A & PAGE SPRINGS RD
TRAFFIC CONTROL
DETOUR PLAN

ROUTE	F.H.W.A. Arizona Division	STATE	ARIZ.	PROJECT NO.	089A YV 362	FEDERAL ID NO.	A89-B(225)T	SHEET NO.	32	TOTAL SHEETS	58	RECORD DRAWING
MILEPOST	SR89A AT PAGE SPRINGS ROAD											DWG NO. T-02.04
STRUCTURE NO.	TRACS NO. F0624 01C											____ OF ____

SIGNING GENERAL NOTES:

1. All signs shall be in compliance with the 11th Edition Manual on Uniform Traffic Control Devices (MUTCD) including the Arizona Supplement, ADOT Signing and Marking Standard Drawings, Traffic Engineering Manual of Approved Signs, ADOT Standard Specifications, these plans, and the Special Provisions.
2. The Engineer may modify the signing plans.
3. The sign locations and the post lengths are approximate. The contractor shall verify the sign locations and actual post lengths with the Engineer prior to installing the signs.
4. Unless otherwise noted, the bottom of each ground-mounted sign assembly shall be at least 7 feet above the nearest edge of pavement and at least 7 feet above the ground under the sign.
5. Sign foundations shall be field adjusted to avoid conflicts with underground utilities. The contractor shall notify the Engineer if foundations are in proximity of underground utility. The contractor shall identify a revised location for the sign. The revised location will be reviewed and approved by the Engineer prior to installation of the foundations.
6. Normal offset for all signs is 12 feet from the near edge of sign to the edge of pavement or back of curb.
7. The retroreflective sheeting on all new signs shall meet criteria established in Section 1007 of the Specifications and in Section 380 of ADOT's Traffic Engineering Guidelines and Processes.
8. The contractor shall remove existing signing where indicated on the plans and in the sign summary.
9. Foundations of existing signs that are to be removed or relocated shall be removed a minimum of two feet below finished grade.
10. Existing signs not indicated in the sign summary that do not need to be removed or relocated, shall remain. If construction activities require a sign assembly removal not noted in the plan, the sign assembly shall be replaced as new and placed as near as possible to the existing location as directed by the Engineer. The removal or replacement of sign assemblies for any construction activity shall be included in the cost of that activity. No further compensation shall be made.
11. The contractor shall replace any signs and sign supports damaged as a result of the construction at no additional cost to the Department.
12. The contractor shall inventory all signs to be removed and reinstalled or covered, and note damaged signs to the Engineer at the time of covering or removal. All signs damaged by covering, removal, or reinstallation shall be replaced by the contractor at no additional cost to the Department.
13. All new signs shall be fabricated with aluminum extrusions or flat sheet aluminum with direct applied copy or screen printed legend as indicated in Section 608 of the Specifications.
14. All new signs shall be installed on new posts with foundations as indicated on the plans in accordance with the ADOT Standard Drawings.
15. Shop Drawings will be required for all signs.

SIGN QUANTITIES

Item No.	Item Description	Unit	Quantity
2020054	Remove (Sign Assembly)	Each	29
2020115	Remove (Sign Panel)	Each	1
6070002	Breakaway Sign Post S4X7.7	L.FT.	46
6070004	Breakaway Sign Post W6X12	L.FT.	57
6070022	Foundation for Breakaway Sign Post S4X7.7	Each	4
6070024	Foundation for Breakaway Sign Post W6X12	Each	4
6070038	Slip Base	Each	37
6070055	Sign Post (Perforated) (2 1/2 S)	L.FT.	184
6070057	Sign Post (Perforated) (2 1/2 T)	L.FT.	462
6070060	Foundation for Sign Post (Concrete)	Each	61
6080005	Regulatory, Warning, or Marker Sign Panel	SQ.FT.	325
6080018	Extruded Aluminum Sign Panel	SQ.FT.	228
6080025	Flat Sheet Aluminum Sign Panel	SQ.FT.	136
6080110	Remove and Reinstall Sign	Each	1



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200		

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

SIGNING
GENERAL NOTES AND QUANTITIES

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	33	58	
STRUCTURE NO.	LOCATION SR89A AT PAGE SPRINGS ROAD						DWG NO. T-03.01
	TRACS NO. F0624 01C						___ OF ___

PAVEMENT MARKING GENERAL NOTES:

1.
- All pavement marking shall be in compliance with the ADOT Signing and Marking Standard Drawings and the 11th Edition Manual on Uniform Traffic Control Devices (MUTCD), including the Arizona Supplement.
2.
- The pavement marking drawings are schematic only and not to scale. The contractor shall follow all dimensions and details when installing pavement markings and markers.
3.
- The pavement marking dimensions are to the center of the striping or in the case of double striping to the center of the double striping and are to the face of curb, face of barrier, or edge of pavement, unless otherwise noted.
4.
- It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset one foot (1'-0") clear of the construction joint, unless otherwise directed by the Engineer.
5.
- The initial striping including stop bars shall be 15 mil wet (0.015 inch wet) thick Waterborne Type 1 pavement marking paint in accordance with Section 708 of the Specifications. The striping shall be installed on the roadway surface after the installation of the final pavement surface and maintained until application of final striping.
6.
- The contractor shall be responsible for the layout and installation of permanent pavement markings on the final surface course following control points that have been set no more than 50 feet apart along the lines to be striped.
7.
- The permanent pavement marking plans may be modified as directed by the Engineer.
8.
- When stripe obliteration is necessary, it shall be accomplished by approved methods. Painting over striping, removal of pavement and overlaying pavement does not constitute stripe obliteration.
9.
- The contractor shall preserve all existing pavement markings that are to remain except where noted otherwise, and shall replace any damaged markings as a result of the construction at no additional cost to the Department.
10.
- The contractor shall clean the roadway surface to the satisfaction of the Engineer by sweeping and air-jet blowing. Immediately prior to the placement of all pavement markings, the roadway surface shall be dry and the air and pavement temperatures shall not be less than 40°F and the air temperature wind chill factor shall not be less than 35°F for the placement of epoxy pavement markings.
11.
- The final striping shall be two-part epoxy pavement marking placed at a minimum of 30 calendar days after the initial striping, as directed by the Engineer. The two-part material shall conform to the requirements of the Specifications and be applied in accordance with Section 709 of the Specifications unless otherwise noted on the plans.
12.
- The contractor shall install ground-in rumble strips continuously along edge lines. The ground-in rumble strips shall conform to the details shown on ADOT Standard Drawing M-22. Rumble strips shall be placed one week prior to the installation of the epoxy striping.

PAVEMENT MARKING QUANTITIES			
Item No	Item	Unit	Total
7080201	Waterborne-Type I Pavement Marking (Painted) (White)	L.FT.	11,711
7080202	Waterborne-Type I Pavement Marking (Painted) (Yellow)	L.FT.	6,817
7080206	Waterborne-Type I Pavement Marking (Painted Symbol) (Arrow)	Each	12
7080207	Waterborne-Type I Pavement Marking (Painted Legend) (STOP/AHEAD)	Each	2
7080208	Waterborne-Type I Pavement Marking (Painted Legend) (ONLY)	Each	4
7090001	Dual Component Pavement Marking (White Epoxy)	L.FT.	19,246
7090002	Dual Component Pavement Marking (Yellow Epoxy)	L.FT.	10,424
7090005	Dual Component Pavement Marking (Transverse)	L.FT.	113
7090010	Dual Component Pavement Legend	Each	6
7090012	Dual Component Pavement Symbol	Each	12
9280037	Ground-In Rumble Strip (12 Inch)	L.FT.	5,964

		<table><tr><td>DESIGN</td><td>HEN</td><td>07/26</td></tr><tr><td>DRAWN</td><td>SRH</td><td>07/26</td></tr><tr><td>CHECKED</td><td>NFC</td><td>07/26</td></tr></table>	DESIGN	HEN	07/26	DRAWN	SRH	07/26	CHECKED	NFC	07/26	<table><tr><td>3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200</td></tr><tr><td> Stanley Consultants INC.</td></tr></table>	3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200	 Stanley Consultants INC.	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES		ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 089A YV 362	FEDERAL ID NO. A89-B(225)T	SHEET NO. 34	TOTAL SHEETS 58	RECORD DRAWING
			DESIGN	HEN	07/26																			
			DRAWN	SRH	07/26																			
			CHECKED	NFC	07/26																			
3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200																								
 Stanley Consultants INC.																								
PAVEMENT MARKING GENERAL NOTES AND QUANTITIES		MILEPOST																						
				STRUCTURE NO.	LOCATION SR89A AT PAGE SPRINGS ROAD																			
					TRACS NO. F0624 01C					DWG NO. T-03.02 ____ OF ____														

Plan Dwg No.	Sign Number	MOAS Sign Code	Work					Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted					Overhead		Remarks			
			New	Existing							Width (in.)	Height (in.)	Area (sq. ft.)	Type		Foundations	Posts		Stringer		Structure Type	No. of Lights				
				Replace Panel	Relocate Panel	Modify Legend	Remove										To Remain	Type	Total length (ft)	New Slipbases				Type	Total Length (ft)	
Legend																										
NB SR 89A																										
T-04.01	RN362.57B	M3-3					X				SOUTH			2020054												
	+	M1-5b					X				ARIZONA 89A															
	+	M6-2L					X				Diagonal Arrow Left															
T-04.01	RN362.57C	R1-1					X				STOP			2020054												
	+	W4-4aP					X				TRAFFIC FROM THE LEFT DOES NOT STOP															
	-	R5-1					X				DO NOT ENTER															
T-04.01	RN362.58	R1-1					X				STOP			2020054												
	+	W4-4aP					X				TRAFFIC FROM THE LEFT DOES NOT STOP															
	-	R4-7					X				Keep Right Symbol															
	-	OM1-2					X				Object Marker															
T-04.01	RN362.60B	W9-1R					X				RIGHT LANE ENDS			2020054												
	+	W16-2aP					X				500 FEET															
SB SR 89A																										
T-04.02	RS362.95	D1-1					X				Left Arrow Page Springs			2020054												
T-04.02	RS362.86	W2-2L					X				Left Side Road Symbol			2020054												
T-04.02	RS362.76	D1-1					X				Diagonal Left Arrow Page Springs Fish Hatchery			2020054												
	+	RS-076					X				Wildlife Viewing Symbol															
T-04.02	RS362.72	D1-1					X				Diagonal Left Arrow Page Springs			2020054												
T-04.01	RS362.66	R3-5bP					X				LEFT LANE			2020054												
	+	R3-5L					X				Left Turn Arrow ONLY															
T-04.01	RS362.64A	M3-2					X				EAST			2020054												
	+	M1-6					X				YAVAPAI 50 COUNTY															
	+	M6-2L					X				Diagonal Arrow Left															
Notes: 1. The contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for installation information.							Panel Types: RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.					Colors: RD = Red YL = Fluorescent Yellow BK = Black BR = Brown BL = Blue WH = White GR = Green OR = Orange				Post Types: 2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post				Stringer Types: P: Square-tube post T: T-section (WT75x9)						
 REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 49996 NATALIE CARRICK DATE SIGNED 07/26/2022 							DESIGN		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES				ROUTE		F.H.W.A. Arizona Division		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING		
							DRAWN		SRH	07/26	SR 89A & PAGE SPRINGS RD REMOVAL SIGN SUMMARY SHEET				MILEPOST		LOCATION		SR89A AT PAGE SPRINGS ROAD				DWG NO. T-03.04			
							CHECKED		NFC	07/26					STRUCTURE NO.		TRACS NO. F0624 01C						____ OF ____			
 Stanley Consultants inc. 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 333-2200 																										

Plan Dwg No.	Sign Number	MOAS Sign Code	Work						Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted						Overhead		Remarks					
			New	Existing								Width (in.)	Height (in.)	Area (sq. ft.)	Type		Foundations	Posts			Stringer		Structure Type	No. of Lights						
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Legend																														
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T-04.01	RS362.64B	M3-3					X								2020054															
	+	M1-5b					X																							
	+	M6-3					X																							
T-04.01	RS362.63	W13-3					X								2020054															
T-04.01	RS362.62	W3-1					X								2020054															
T-04.01	RS362.60	W4-3L					X								2020054															
T-04.01	RS362.56	D1-1					X								2020054															
T-04.01	RS362.49	W9-1L					X								2020054															
	+	W16-2aP					X																							
Page Springs Rd																														
T-04.01	RPS1	R3-5aP					X								2020054															
	+	R3-5R					X																							
T-04.01	RPS2	R1-2					X								2020054															
T-04.01	RPS3	R6-1R					X								2020054															
	+	R1-1					X																							
	+	W4-4aP					X																							
	-	R6-1L					X																							
T-04.01	RPS4	M3-1					X								2020054															
	+	M1-5b					X																							
	+	M6-1R					X																							
Notes:			Panel Types:										Colors:				Post Types:				Stringer Types:									
1. The contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for installation information.			RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.										RD = Red BK = Black BL = Blue GR = Green				YL = Fluorescent Yellow BR = Brown WH = White OR = Orange				2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post				P: Square-tube post T: T-section (WT75x9)					
Registered Professional Engineer CERTIFICATE NO. 49996 NATALIE CARRICK due signed 07/26/2025 Signature Natalie Carrick			DESIGN		NAME		DATE		ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES						ROUTE		F.H.W.A. Arizona Division		STATE		PROJECT NO.		FEDERAL ID NO.		SHEET NO.		TOTAL SHEETS		RECORD DRAWING	
			DRAWN		SRH		07/26		SR 89A & PAGE SPRINGS RD REMOVAL SIGN SUMMARY SHEET						MILEPOST		ARIZ.		089A YV 362		A89-B(225)T		37		58					
			CHECKED		NFC		07/26								STRUCTURE NO.		LOCATION		SR89A AT PAGE SPRINGS ROAD								DWG NO. T-03.05			
									Stanley Consultants INC.								TRACS NO. F0624 01C												OF	

Plan Dwg No.	Sign Number	MOAS Sign Code	Work					Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted						Overhead		Remarks	
			New	Existing							Width (in.)	Height (in.)	Area (sq. ft.)	Type		Foundations	Posts			Stringer		Structure Type	No. of Lights		
				Replace Panel	Relocate Panel	Modify Legend	Remove										To Remain	Type	Total length (ft)	New Slipbases	Type				Total Length (ft)
NB SR 89A											Legend														
T-04.03	N362.29	W2-7					X				Offset Side Road Symbol														
		W16-8P					X				Page Springs Rd Right Arrow														
T-04.03	N362.34	D1-1					X				Page Springs														
							X				Fish Hatchery Right Arrow														
	+	RS-076					X				Wildlife Viewing														
T-04.03	N362.40	D1-2	X					12	7	GR	Up Arrow Sedona	168	72	84.0	Ext	6080018	2	W 6x12	32						
											Page Springs Right Arrow														
T-04.03	N362.42A	R5-1	X					12	7	WH	DO NOT ENTER	36	36	9.0	RWM	6080005	2	2 1/2T	26	2					
	+	R5-1a	X							RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.03	N362.42B	R5-1	X					12	7	WH	DO NOT ENTER	36	36	9.0	RWM	6080005	2	2 1/2T	26	2					
	+	R5-1a	X							RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.03	N362.43A	D1-1	X					12	7	GR	Left Arrow Page Springs	132	24	22.0	F-DA	6080025	2	2 1/2T	24	2	P	20			
T-04.03	N362.43B	R6-1L	X					12	5	BK	ONE WAY (Left)	48	18	6.0	RWM	6080005	1	2 1/2S	9		P	7			
T-04.04	N362.51A	R5-1	X					12	7	WH	DO NOT ENTER	36	36	9.0	RWM	6080005	2	2 1/2T	26	2					
	+	R5-1a	X							RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.04	N362.51B	R3-5fP	X					12	7	WH	RIGHT LANE	30	12	2.5	RWM	6080005	2	2 1/2T	26	2					
	+	R3-5R	X							WH	Right Turn Arrow ONLY	30	36	7.5	RWM	6080005									
	-	R5-1	X							WH	DO NOT ENTER	36	36	9.0	RWM	6080005									
	-	R5-1a	X							RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.04	N362.55B	M3-2					X				EAST														
	+	M1-6					X				YAVAPAI 50 COUNTY														
	+	M6-1R					X				RIGHT ARROW														
T-04.04	N362.56A	M3-3	X					12	7	WH	SOUTH	30	15	3.1	F-DA	6080025	2	2 1/2T	26	2					
	+	M1-5B	X							WH	ARIZONA 89A	48	36	12.0	F-DA	6080025									
	+	M6-1R	X							WH	RIGHT ARROW	24	18	3.0	F-DA	6080025									

Notes:

1. The contractor shall verify post lengths and elevations.

2. Signs may shift longitudinally 50' in order to achieve a more desirable location.

3. Quantities are approximate and for the contractor's information only.

4. See the ADOT Signing and Marking Standard Drawings for installation information.

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F-DEM: Flat Sheet Aluminum with Demountable Characters.

Ext: Aluminum Extrusion.

Colors:

RD = Red

BK = Black

BL = Blue

GR = Green

YL = Fluorescent Yellow

BR = Brown

WH = White

OR = Orange

Post Types:

2S, 2 1/2S: Non-telescoping perforated post

2 1/2T: Telescoping perforated post

S4x7.7: S-shape breakaway post

W6x12: W-shape breakaway post

Stringer Types:

P: Square-tube post

T: T-section (WT75x9)

REGISTERED PROFESSIONAL ENGINEER

CERTIFICATE NO. 19996

NATALIE CARRICK

10/1/2000

Signature

10/1/2000

DESIGN

HEN

07/26

DRAWN

SRH

07/26

CHECKED

NFC

07/26

3133 East Camelback Road, Suite 100

Phoenix, Arizona 85016

Phone: 1602) 333-2200

Stanley Consultants INC.

ARIZONA DEPARTMENT OF TRANSPORTATION

PROJECT DELIVERY AND OPERATIONS DIVISION

TRAFFIC DESIGN SERVICES

SR 89A & PAGE SPRINGS RD

SIGN SUMMARY SHEET

ROUTE

MILEPOST

STRUCTURE NO.

F.H.W.A. Arizona Division

STATE

ARIZ.

PROJECT NO.

089A YV 362

FEDERAL ID NO.

A89-B(225)T

SHEET NO.

38

TOTAL SHEETS

58

RECORD DRAWING

LOCATION

SR89A AT PAGE SPRINGS ROAD

DWG NO.

T-03.06

TRACS NO.

F0624 01C

OF

c:\projects\datasource-1\common\1343905\0624_sm_06.dgn \ Model Name: t0596_spm_02

Plan Dwg No.	Sign Number	MOAS Sign Code	Work					Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted						Overhead		Remarks	
			New	Existing							Width (in.)	Height (in.)	Area (sq. ft.)	Type		Foundations	Posts			Stringer		Structure Type	No. of Lights		
				Replace Panel	Relocate Panel	Modify Legend	Remove										To Remain	Type	Total length (ft)	New Slipbases	Type				Total Length (ft)
Legend																									
	NB SR 89A																								
T-04.04	N32.56B	R6-1R	X					12	5	BK	ONE WAY (Right)	48	18	6.0	RWM	6080005	1	2 1/2S	9						
T-04.04	N362.56C	D1-1	X					12	7	GR	COTTONWOOD	120	36	30.0	F-DA	6080025	2	2 1/2T	20	2	P	18			
											PRESCOTT RIGHT ARROW														
T-04.04	N362.58	M3-1					X				NORTH														
	+	M1-5B									ARIZONA 89A														
T-04.04	N362.60A	W1-11	X					12	7	YL	Hairpin Curve Symbol	36	36	9.0	RWM	6080005	2	2 1/2T	29	2					
	+	W13-1P(20)	X							YL	20 M.P.H.	24	24	4.0	RWM	6080005									
T-04.04	N362.62	W4-2	X					12	7	YL	Lane Ends Symbol	48	48	16.0	RWM	6080005	2	2 1/2T	30	2					
T-04.04	N362.63	D5-1s		X				12	7	BL	SCENIC VIEW 1 MILE	48	18	6.0	F-DA	6080110	2	2 1/2S	26	2		RELOCATE TO STA 533+00			
T-04.04	N362.68A	M3-3	X					12	7	WH	SOUTH	36	18	4.5	F-DA	6080025	2	2 1/2T	26	2					
	+	M1-5b	X							WH	ARIZONA 89A	48	36	12.0	F-DA	6080025									
	+	M6-1L	X							WH	LEFT ARROW	24	18	3.0	F-DA	6080025									
T-04.04	N362.68B	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.68C	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.69A	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.69B	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.69C	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.69D	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.69E	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.04	N362.70	R2-1(65)					X				SPEED LIMIT 65														
Notes: 1. The contractor shall verify post lengths and elevations. 2. Signs may shift longitudinally 50' in order to achieve a more desirable location. 3. Quantities are approximate and for the contractor's information only. 4. See the ADOT Signing and Marking Standard Drawings for installation information.																									
Panel Types: RWM: Regulatory, Warning, or Marker. F-DA: Flat Sheet Aluminum with Direct Applied or Silk Screened Characters. F-DEM: Flat Sheet Aluminum with Demountable Characters. Ext: Aluminum Extrusion.											Colors: RD = Red BK = Black BL = Blue GR = Green YL = Fluorescent Yellow BR = Brown WH = White OR = Orange					Post Types: 2S, 2 1/2S: Non-telescoping perforated post 2 1/2T: Telescoping perforated post S4x7.7: S-shape breakaway post W6x12: W-shape breakaway post					Stringer Types: P: Square-tube post T: T-section (WT75x9)				
Registered Professional Engineer 19996 NATALIE CARRICK Exp. 07/26 DESIGN HEN 07/26 DRAWN SRH 07/26 CHECKED NFC 07/26 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200 Stanley Consultants INC.											ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES SR 89A & PAGE SPRINGS RD SIGN SUMMARY SHEET					ROUTE	F.H.W.A. Arizona Division		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
											MILEPOST	LOCATION	ARIZ.	089A YV 362	A89-B(225)T	39	58								
											STRUCTURE NO.	TRACS NO.	F0624 01C				DWG NO. T-03.07	OF							

Plan Dwg No.	Sign Number	MOAS Sign Code	Work					Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted						Overhead		Remarks		
			New	Existing							Legend	Width (in.)	Height (in.)	Area (sq. ft.)		Type	Foundations	Posts			Stringer		Structure Type		No. of Lights	
				Replace Panel	Relocate Panel	Modify Legend	Remove											To Remain	Type	Total length (ft)	New Slipbases	Type				Total Length (ft)
	SB SR 89A																									
T-04.07	N362.77	D2-2						X				Sedona 10 Flagstaff 39														
T-04.07	S362.81	W4-3L	X						12	7	YL	Add Left Lane Symbol	48	48	16.0	RWM	6080005	2	2 1/2T	30	2					
T-04.07	S362.76	R6-1R						X				ONE WAY (Right)														
T-04.07	S362.75	R6-1R						X				ONE WAY (Right)														
	+	R1-1										STOP														
T-04.04	S362.72	D1-1						X				Up Arrow Cottonwood Prescott														
T-04.04	S362.68	D3-2	X						12	7	GR	Left Arrow Page Springs Rd	132	18	16.5	F-DA	6080025	2	2 1/2T	23	2	P	20			
T-04.04	S362.66A	R5-1	X						12	7	WH	DO NOT ENTER	36	36	9.0	RWM	6080005	2	2 1/2T	29	2					
	+	R5-1a	X								RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.04	S362.66B	R5-1	X						12	7	WH	DO NOT ENTER	36	36	9.0	RWM	6080005	2	2 1/2T	29	2					
	+	R5-1a	X								RD	WRONG WAY	36	24	6.0	RWM	6080005									
T-04.04	S362.65B	R6-1L	X						12	5	BK	ONE WAY (Left)	48	18	6.0	RWM	6080005	1	2 1/2S	9						
T-04.04	S362.65A	D1-1	X						12	7	GR	LEFT ARROW COTTONWOOD PRESCOTT	120	36	30.0	F-DA	6080025	2	2 1/2T	20	2	P	18			
T-04.04	S362.61	W9-101R	X						12	7	YL	THRU TRAFFIC MERGE RIGHT	36	36	9.0	RWM	6080005	1	2 1/2T	12	1					
T-04.04	S362.56	D1-1	X						12	7	GR	Left Arrow Page Springs Fish Hatchery	180	48	60.0	Ext	6080018	2	W 6x12	25						
T-04.04	S362.51	D1-1	X						12	7	GR	Left Arrow Page Springs	168	36	42.0	Ext	6080018	2	S 4x7.7	26						

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--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	---	--	--	--

				DESIGN	HEN	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES				ROUTE	F.H.W.A. Arizona Division		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
				DRAWN	SRH	07/26					MILEPOST			ARIZ.	089A YV 362	A89-B(225)T	40	58	
				CHECKED	NFC	07/26					STRUCTURE NO.	LOCATION SR89A AT PAGE SPRINGS ROAD							DWG NO. T-03.08
				 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200				SR 89A & PAGE SPRINGS RD SIGN SUMMARY SHEET				TRACS NO. F0624 01C				_____ OF _____			

Plan Dwg No.	Sign Number	MOAS Sign Code	Work					Offset (ft)	Mounting Height (ft)	Background Color	Panel				Bid Item Number	Ground Mounted						Overhead		Remarks	
			New	Existing							Width (in.)	Height (in.)	Area (sq. ft.)	Type		Foundations	Posts		New Slipbases	Stringer		Structure Type	No. of Lights		
				Replace Panel	Relocate Panel	Modify Legend	Remove										To Remain	Type		Total length (ft)	Type				Total Length (ft)
											Legend														
	SB SR 89A																								
T-04.03	S362.45	W1-11	X							YL	Hairpin Curve Symbol	36	36	9.0	RWM	6080005								INSTALL ON LIGHT POLE	
	+	W13-1P(20)	X							YL	20 M.P.H.	24	24	4.0	RWM	6080005									
T-04.03	S362.41A	D1-1	X					12	7	GR	Left Arrow Page Springs	168	36	42.0	Ext	6080018	2	S 4x7.7	26						
T-04.03	S362.41B	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.03	S362.40A	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.03	S362.40B	W1-8L	X					12	5	YL	Left Chevron	30	36	7.5	RWM	6080005	1	2 1/2S	12						
T-04.03	S362.40C	R6-1L	X					12	5	BK	ONE WAY (Left)	36	12	3.0	RWM	6080005	2	2 1/2T	25	2					
	+	R1-1	X							RD	STOP	36	36	9.0	RWM	6080005									
	+	W4-4P	X							YL	CROSS TRAFFIC DOES NOT STOP	24	12	2.0	RWM	6080005									
Page Springs Rd																									
T-04.04	PS1	M3-3	X					12	7	WH	SOUTH	30	15	3.1	RWM	6080005	2	2 1/2T	26	2					
	+	M1-5B	X							WH	ARIZONA 89A	48	36	12.0	RWM	6080005									
	+	M5-2R	X							WH	45 Degree Advance Turn Right Arrow	24	18	3.0	RWM	6080005									
	+	M3-1	X							WH	NORTH	30	15	3.1	RWM	6080005									
	+	M1-5B	X							WH	ARIZONA 89A	48	36	12.0	RWM	6080005									
	+	M6-1R	X							WH	Right Arrow	24	18	3.0	RWM	6080005									
T-04.04	PS2	R3-8SR	X					12	7	WH	Straight ONLY Right Turn ONLY	30	30	6.3	RWM	6080005	1	2 1/2S	11						
T-04.04	PS3	R6-1R	X						5	BK	ONE WAY (Right)	36	12	3.0	RWM	6080005	2	2 1/2T	29	2				INSTALL IN PAVEMENT	
	+	R1-1	X							RD	STOP	36	36	9.0	RWM	6080005								SEE DWG NO. T-04.04	
	+	W4-4P	X							YL	CROSS TRAFFIC DOES NOT STOP	24	12	2.0	RWM	6080005									

Notes:

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2 1/2T: Telescoping perforated post
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W6x12: W-shape breakaway post

Stringer Types:

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T: T-section (WT75x9)



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26


 3133 East Camelback Road, Suite 100
 Phoenix, Arizona 85016
 Phone: (602) 333-2200
Stanley Consultants INC.

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

SR 89A & PAGE SPRINGS RD
SIGN SUMMARY SHEET

ROUTE

MILEPOST

STRUCTURE NO.

STATE

ARI7

PROJECT NO.

FEDERAL ID NO.

A89-B(225)T

SHEET
NO

41

TOTAL
SHEETS

58

RECORD

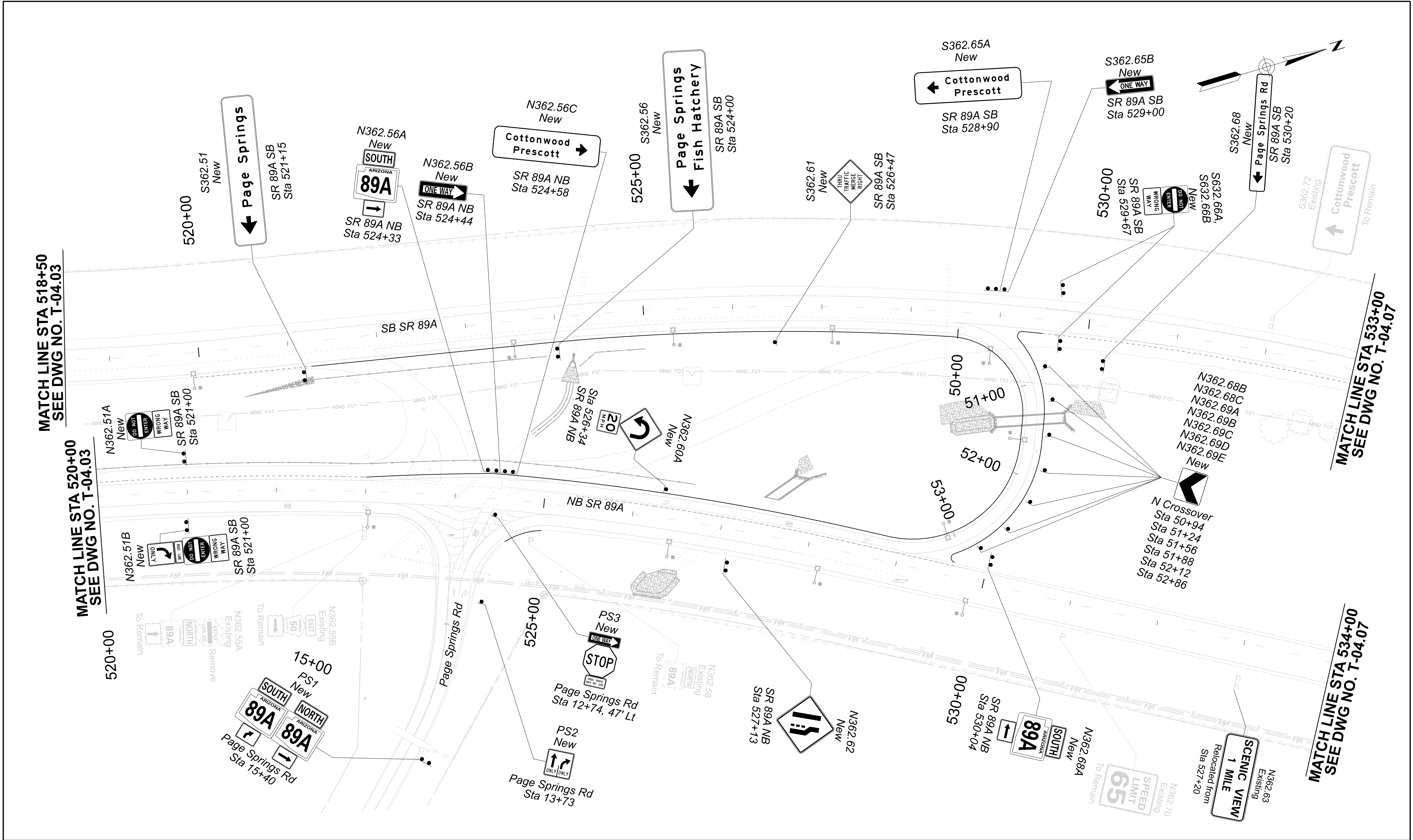
AWING

LOCATION SR89A AT PAGE SPRINGS ROAD

TRACS NO. F0624 01C

DWG NO. T-03.09

OF



REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 49996 NATALIE CARRICK DATE SIGNED 07/26 Stanley Consultants INC. DESIGN HEN 07/26 DRAWN SRH 07/26 CHECKED NFC 07/26 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602 333-2200	<table><tr><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGN</td><td>HEN</td><td>07/26</td></tr><tr><td>DRAWN</td><td>SRH</td><td>07/26</td></tr><tr><td>CHECKED</td><td>NFC</td><td>07/26</td></tr></table>			NAME	DATE	DESIGN	HEN	07/26	DRAWN	SRH	07/26	CHECKED	NFC	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES		ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
		NAME	DATE																					
	DESIGN	HEN	07/26																					
	DRAWN	SRH	07/26																					
CHECKED	NFC	07/26																						
SR 89A & PAGE SPRINGS RD SIGNING PLAN STA 520+00 TO STA 534+00		MILEPOST	089A YV 362	A89-B(225)T	45	58																		
Stanley Consultants INC.		STRUCTURE NO.	LOCATION SR89A AT PAGE SPRINGS ROAD								DWG NO. T-04.04													
			TRACS NO. F0624 01C								OF													

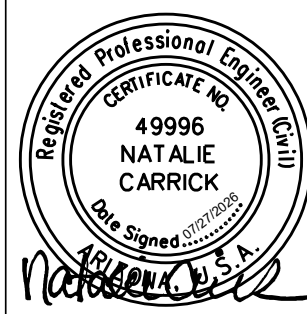
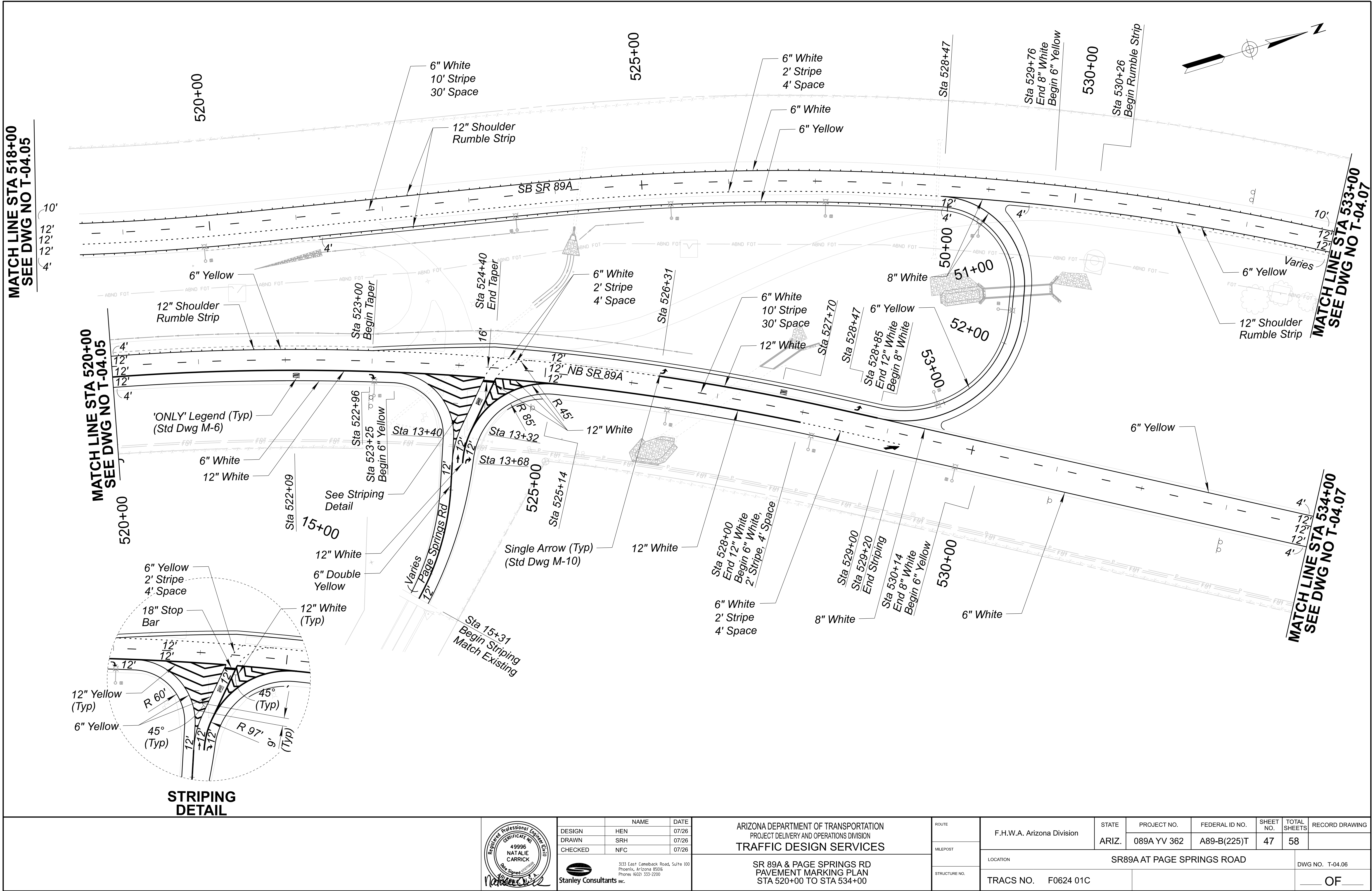
MATCH LINE STA 518+00
SEE DWG NO T-04.05

MATCH LINE STA 520+00
SEE DWG NO T-04.05

MATCH LINE STA 534+00
SEE DWG NO T-04.07

MATCH LINE STA 533+00
SEE DWG NO T-04.07

STRIPING
DETAIL

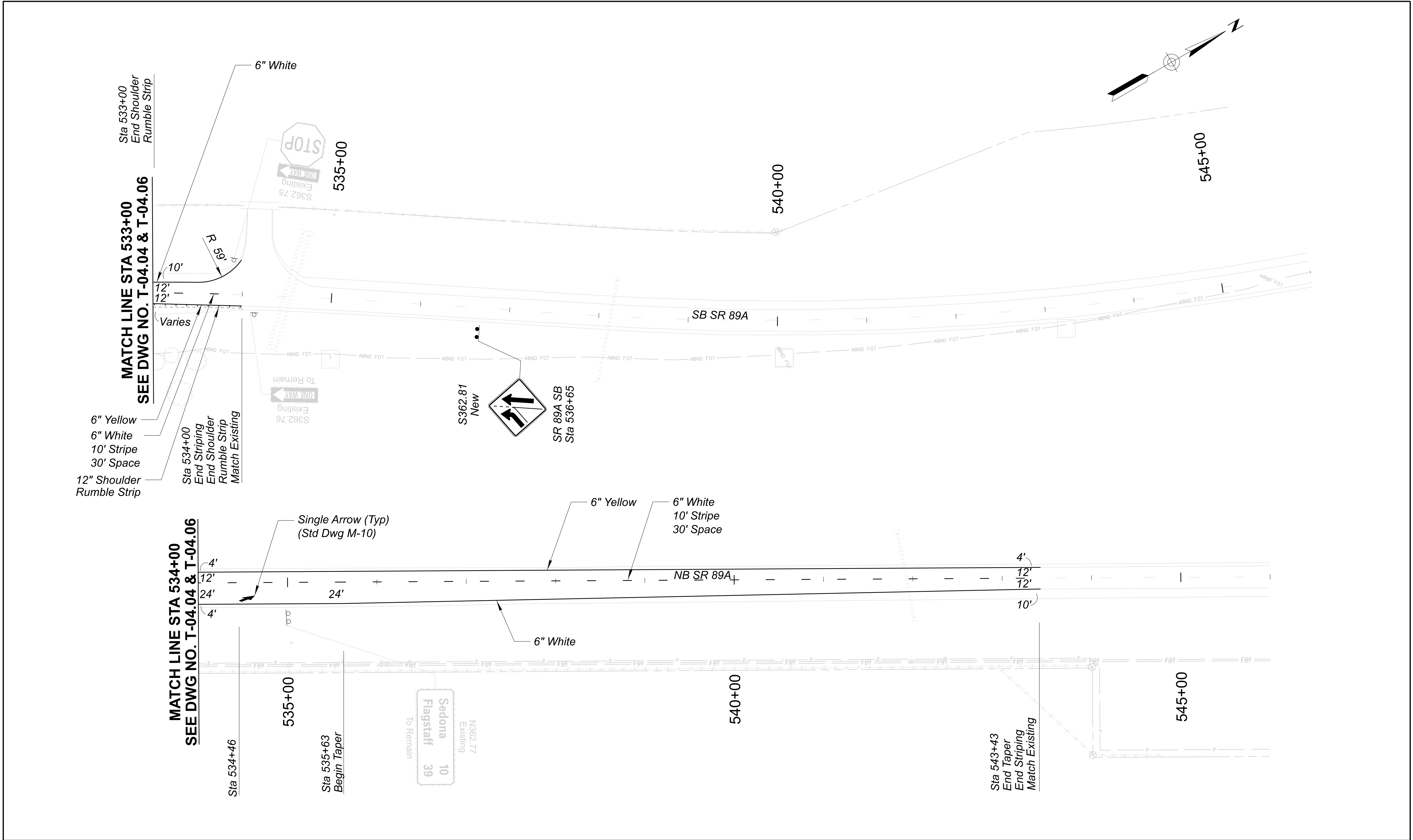


	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26

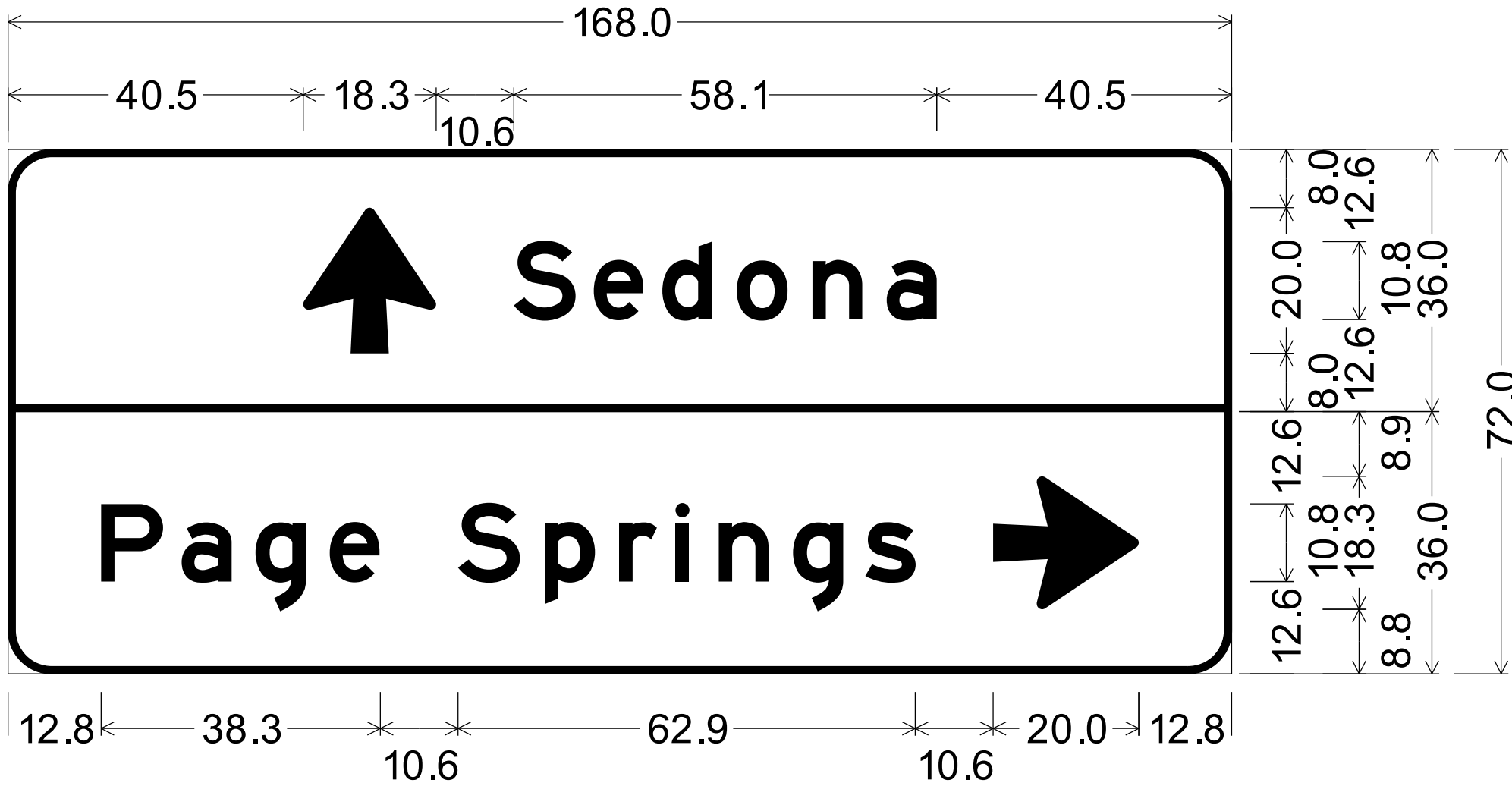
Stanley Consultants INC.

ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE
SR 89A & PAGE SPRINGS RD PAVEMENT MARKING PLAN STA 520+00 TO STA 534+00	MILEPOST
	STRUCTURE NO.

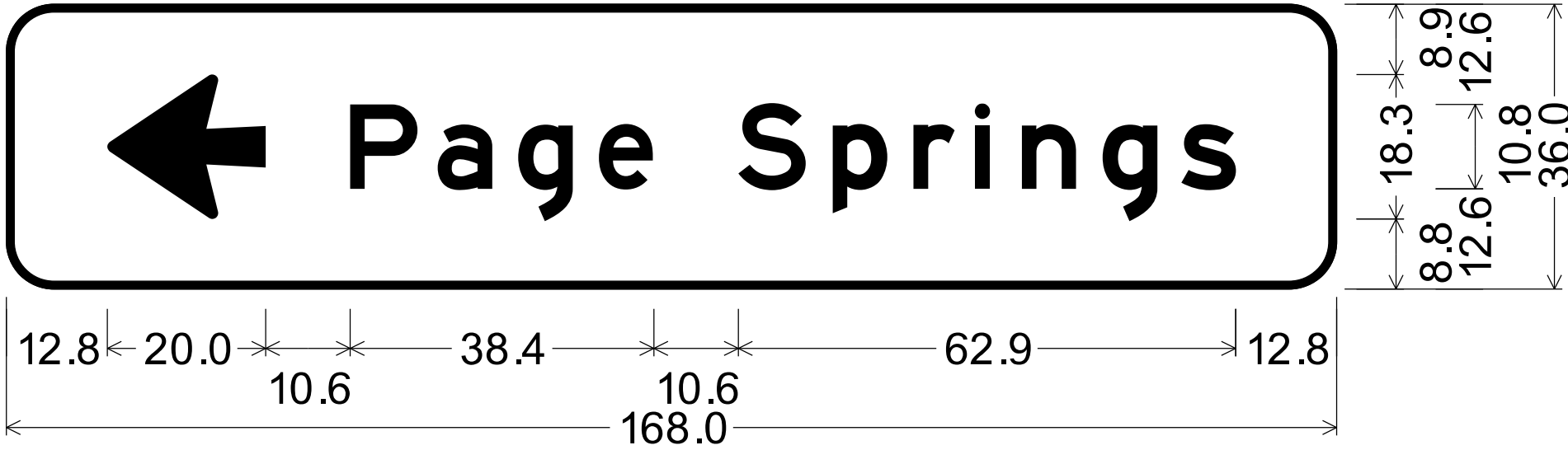
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	ARIZ.	089A YV 362	A89-B(225)T	47	58	
LOCATION	SR89A AT PAGE SPRINGS ROAD					DWG NO. T-04.06
TRACS NO.	F0624 01C					OF



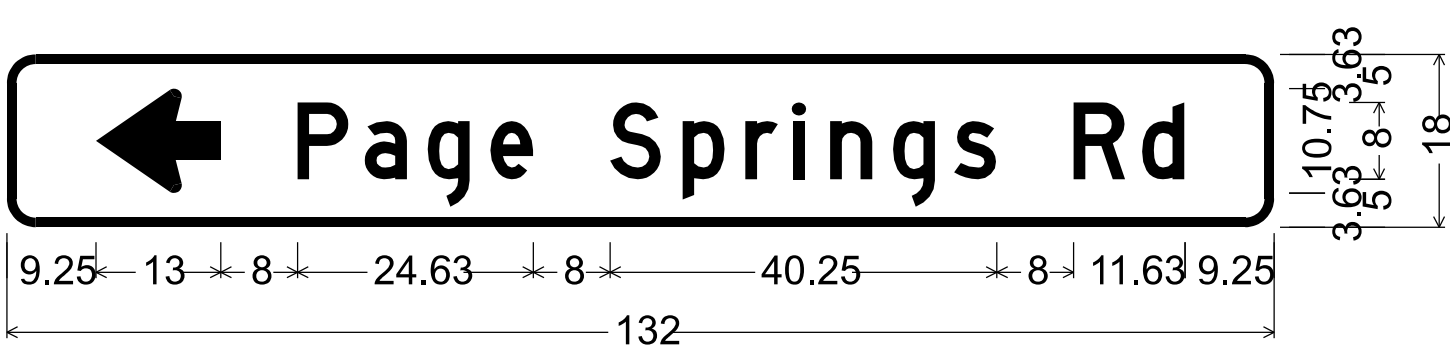
	DESIGN	HEN	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	SRH	07/26		MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	48	58	
	CHECKED	NFC	07/26			STRUCTURE NO.	LOCATION SR89A AT PAGE SPRINGS ROAD					
	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602) 333-2200 Stanley Consultants INC.				TRACS NO. F0624 01C							
					DWG NO. T-04.07 ____ OF ____							



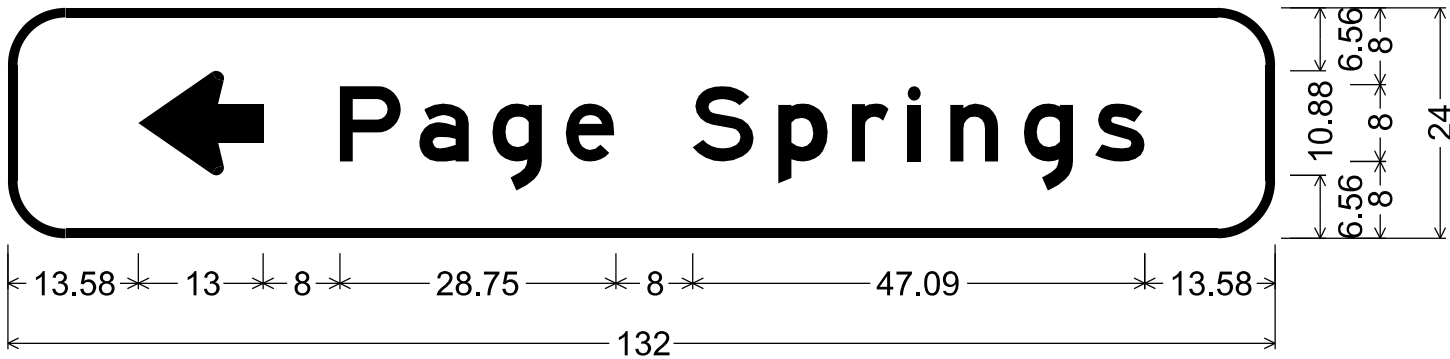
D1-2
N362.40;
6.0" Radius, 1.0" Border, White on Green;
Arrow 10-13.33 Type B - 90°; "Sedona", E;
6.0" Radius, 1.0" Border, White on Green;
"Page Springs", E; Arrow 10-13.33 Type B - 0°;



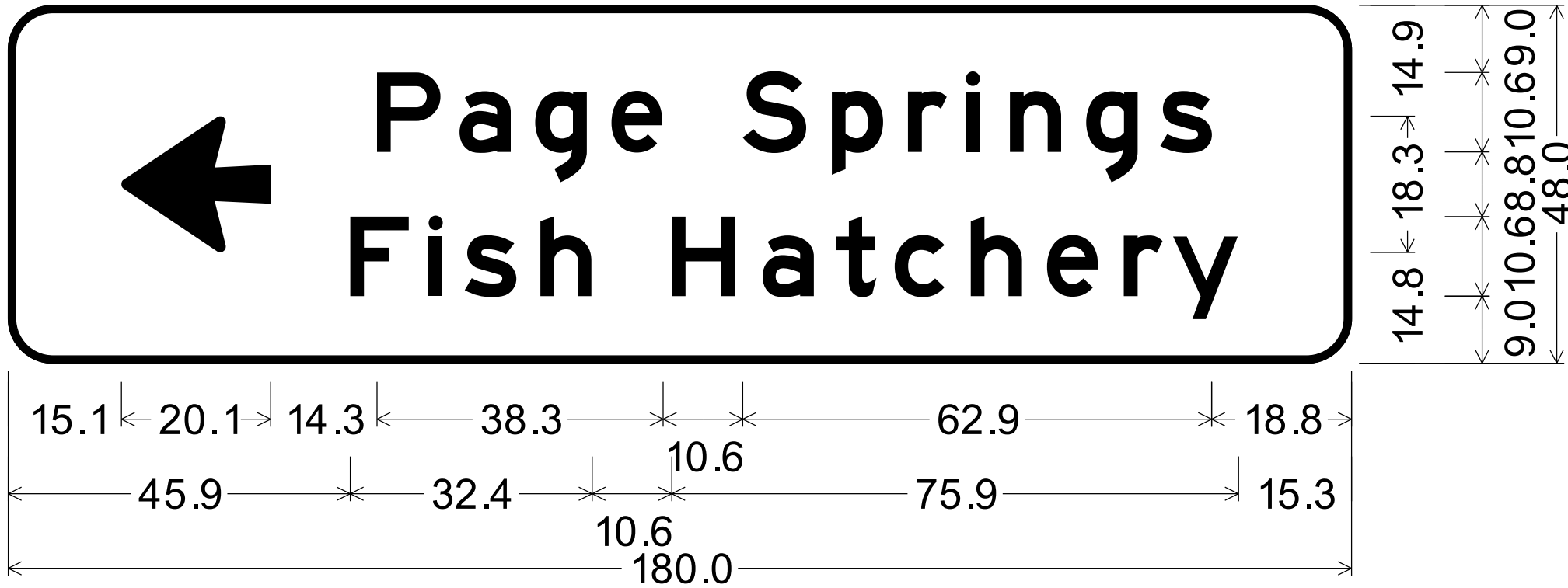
D1-1
S362.51; S362.41A
6.0" Radius, 1.0" Border, White on Green;
Arrow 10-13.33 Type B - 180°; "Page Springs", E;



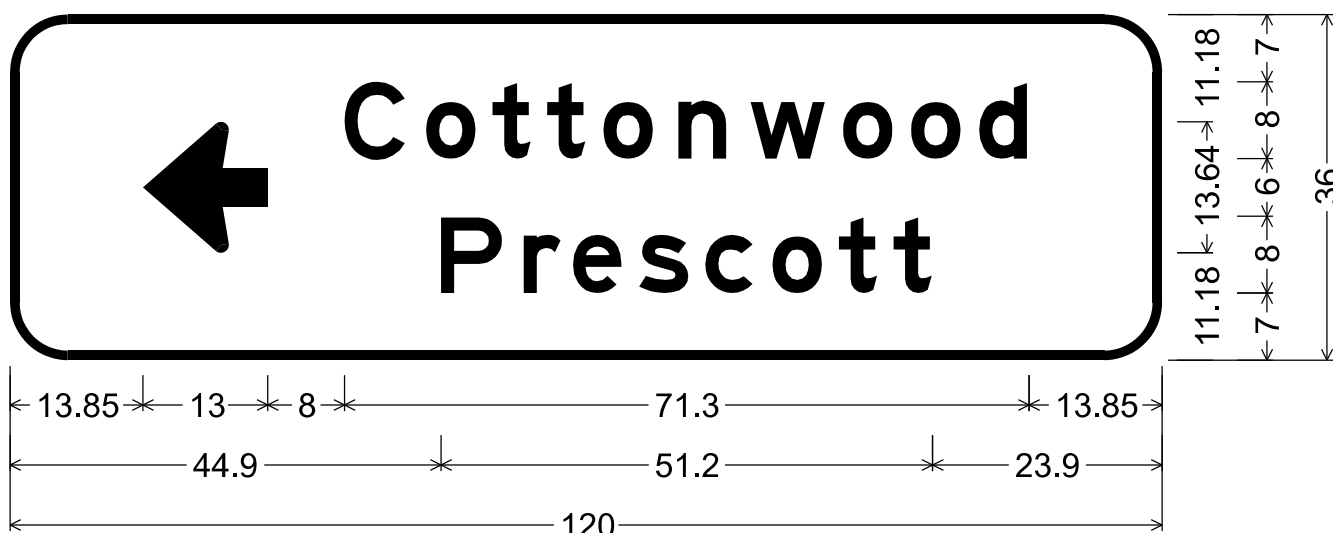
D3-2
S362.68
3.00" Radius, 1.00" Border, White on, Green;
Arrow 8" Type D1 - 13.00" 180°; "Page Springs Rd", D;



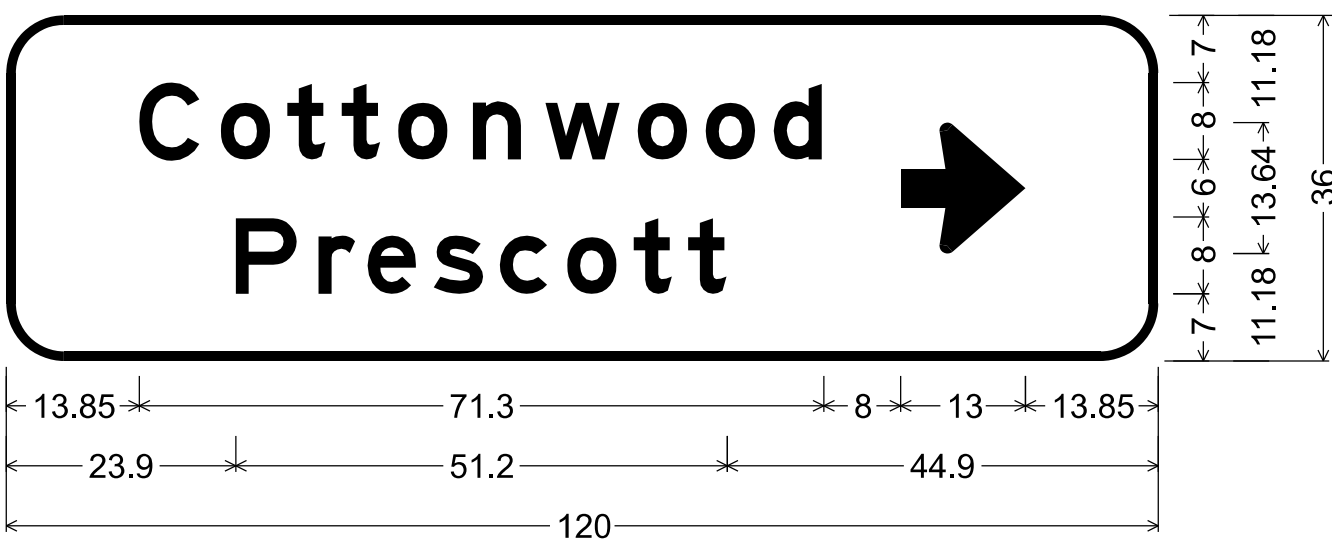
D1-1;
N362.43A;
6.00" Radius, 1.00" Border, White on, Green;
Arrow 8" Type D1 - 13.00" 180°; "Page Springs", E;



S362.56
6.0" Radius, 1.0" Border, White on Green;
Arrow 10-13.33 Type B - 180°; "Page Springs", E;
"Fish Hatchery", E;



D1-1;
S362.65A
6.00" Radius, 1.00" Border, White on, Green;
Arrow 8" Type D3 - 13.00" 180°; "Cottonwood", E; "Prescott", E;



D1-1;
S362.65C
6.00" Radius, 1.00" Border, White on, Green;
"Cottonwood", E; "Prescott", E; Arrow 8" Type D3 - 13.00" 0°;



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200		

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

SIGNING
SIGN FORMATS

ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	49	58	
STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD						DWG NO. T-04.08
TRACS NO. F0624 01C			OF				

ROADWAY LIGHTING GENERAL NOTES:

1. All luminaires shall be marked with their lamp wattage "LED". These markings shall be clearly visible from the ground.
2. The location of utilities on the plans are approximate. All involved utilities may not be shown on the plans. The contractor shall be responsible, per Sections 107.15 and 730.6 of the Specifications, for contacting all utilities (including ADOT) for the exact location prior to any construction activity. The contractor is responsible for maintaining proper clearances as required by the utility company.
3. All lighting pull boxes shall be heavy duty with locking lids in accordance with ADOT Standard Drawing No. T.S. 1-12 and shall be gray color only.
4. All light poles shall be installed with the luminaire arm perpendicular to the adjacent roadway construction centerline.
5. All new pole foundations shall be inspected by ADOT Traffic Signal Inspector prior to placement of concrete.
6. All light pole foundations with breakaway bases shall be constructed with the top of foundation flat and level in accordance with the manufacturer's recommendations.
7. All roadway luminaires shall be the light emitting diode (LED) (3,000K) and shall be on the ADOT Approved Products List.
8. Each horizontally pole mounted luminaire shall be individual fused with in-line connectors in the nearest adjacent pull box.
9. All lighting conduits shall be installed at a minimum depth of 36 inches. Conduit crossings of box culverts that are not a minimum of 36" deep shall be encased in concrete per ADOT Std Dwg. T.S. 1-5.
10. Conduit runs are diagrammatic. Exact location of conduit runs and pull boxes shall be determined by the Engineer when a field question arises.
11. Per Section 730-7 of the Standard Specifications, the contractor shall obtain maintenance unit numbers from ADOT Traffic Operations. Maintenance unit numbers shall be filled in the Pole and Luminaire Schedule as part of the record drawing process.
12. Once installed, all luminaires shall be energized for 100 hours before final acceptance in accordance with Section 732-3.02 of the Specifications. The contractor shall be responsible for correcting any problems for six months after the luminaires pass a final inspection in accordance with Section 106.13 of the Specifications. The contractor shall provide a name and telephone number to the Engineer of a contact person ADOT can call after the job is completed.
13. For installation procedures, see ADOT's Traffic Signal and lighting Standard Drawings and the 2021 Standard Specifications.
14. All existing pole foundations shall be removed completely.
15. The contractor shall schedule construction activities to minimize durations of lighting outages.

POLE AND LUMINAIRE SCHEDULE LEGEND:

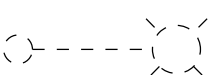
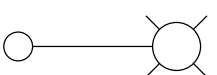
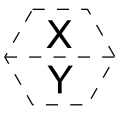
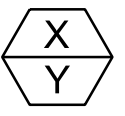
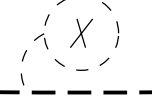
- G-30 -

30' Aluminum Type G Pole per ADOT Std Dwg. T-SL 4.08
- B/A -

Breakaway Foundation
- B/A-2 -

Type 2 Breakaway Base per ADOT Std. Dwgs. T.S. 5-0, T.S. 5-1, and T.S. 5-3
- 15L -

Horizontal Mount LED Luminaire
Refer to ADOT Approved Products List

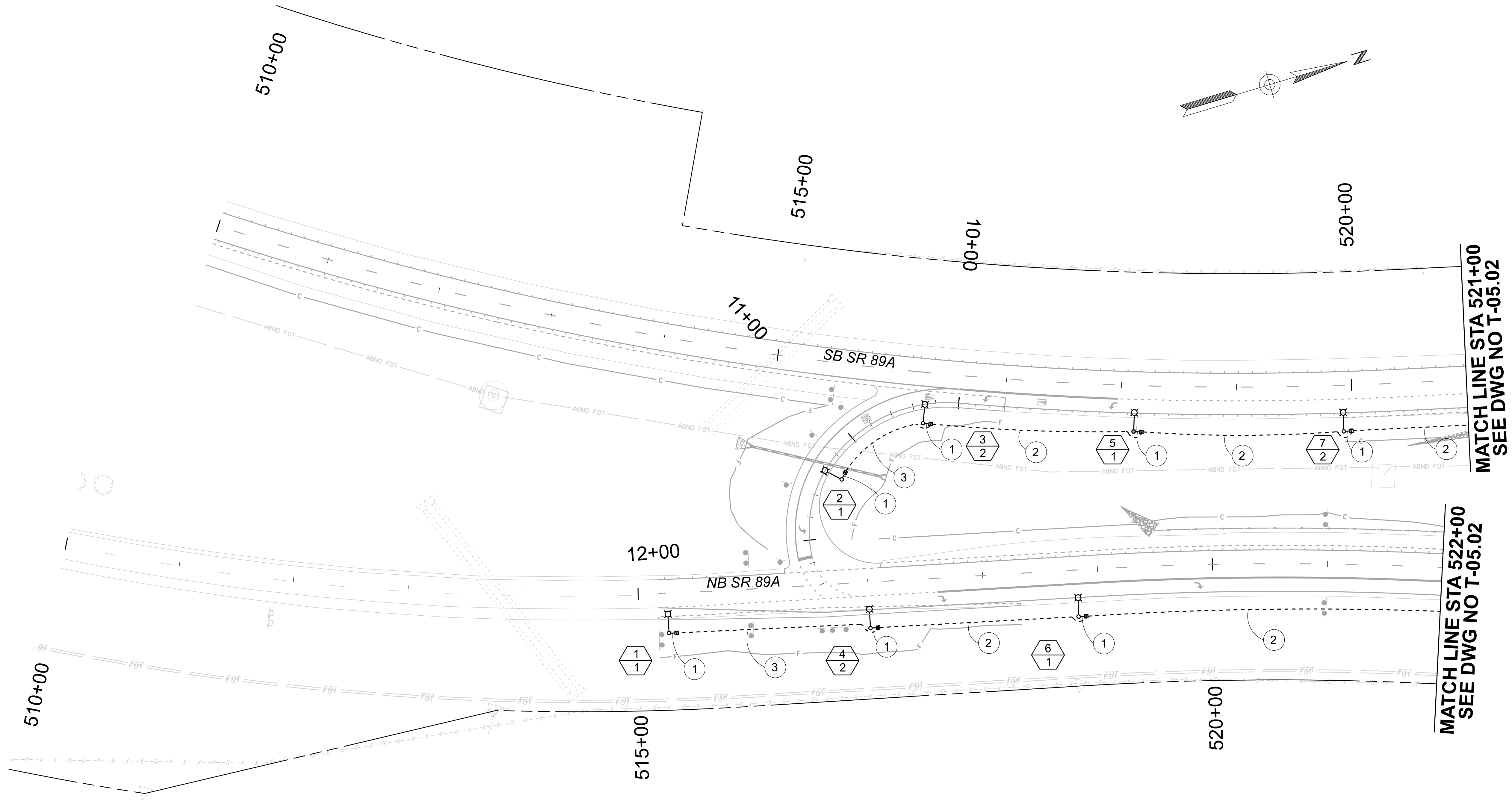
ROADWAY LIGHTING LEGEND		
EXISTING	PROPOSED (OR RELOCATED)	DESCRIPTION
		Type G Light Pole with Mast Arm
		Load Center/Meter Pedestal Cabinet (ADOT Std Dwgs T.S. 3-0 through 3-5)
		Existing Number 7 Pull Box
		Number 4B Pull Box (ADOT Std Dwg T.S. 1-12)
		Existing Number 5 Pull Box
		Construction Note
		X-Pole Number, Y-Load Center
		Conduit with Conductors (See Conductor Schedule)



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200		

ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE
SR 89A & PAGE SPRINGS RD LIGHTING NOTES AND LEGEND	MILEPOST
	STRUCTURE NO.

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	ARIZ.	089A YV 362	A89-B(225)T	50	58	
LOCATION		SR89A AT PAGE SPRINGS ROAD			DWG NO. T-05.01	
TRACS NO. F0624 01C					____ OF ____	



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26

3133 East Camelback Road, Suite 100
Phoenix, Arizona 85016
Phone: 1602) 333-2200

Stanley Consultants INC.

ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE
SR 89A & PAGE SPRINGS RD LIGHTING PLAN STA 510+00 TO STA 521+00	MILEPOST
	STRUCTURE NO.

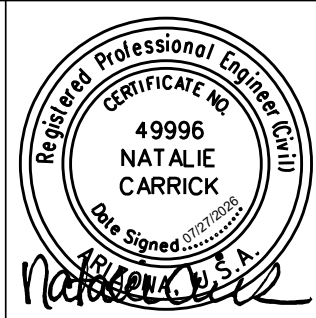
F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	ARIZ.	089A YV 362	A89-B(225)T	51	58	
LOCATION	SR89A AT PAGE SPRINGS ROAD					DWG NO. T-05.02
TRACS NO.	F0624 01C					OF

ROADWAY LIGHTING POLE & LUMINAIRE SCHEDULE STATION 510+00 TO STATION 521+00												
POLE NO.	CIRCUIT	ROADWAY	STATION	OFFSET	POLE		FOUNDATION	LUMINAIRE			REMARKS	MAINTENANCE UNIT NO.
					TYPE	BASE		MOUNT	TYPE	NO		
1	1	SB SR 89A	515+26	34.7' Lt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
2	1	NB SR 89A	11+37	16.4 Lt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
3	2	SB SR 89A	516+32	44.2' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
4	2	NB SR 89A	517+00	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
5	1	SB SR 89A	518+12	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
6	1	NB SR 89A	518+81	40.6' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
7	2	SB SR 89A	519+92	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		

CONDUCTOR SCHEDULE				
	CONDUIT RUN NUMBER	1	2	3
	CONDUIT SIZE IN INCHES	2	2	2
AWG	CIRCUIT PHASE			
#12	Lighting (Pole to pull box)	2		
#8	Lighting Circuit 1		2	2
	Lighting Circuit 2		2	
#8	Bond	1	1	1

POLE/CONDUCTOR SCHEDULE CONSTRUCTION NOTES:

1. Remove existing luminaire and install new LED luminaire on existing pole.
All existing LED luminaries will be replaced with 15 L LED.
2. Remove existing pole and associated equipment.



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26

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ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE
SR 89A & PAGE SPRINGS RD POLE & CONDUCTOR SCHEDULES STA 510+00 TO STA 521+00	MILEPOST
	STRUCTURE NO.

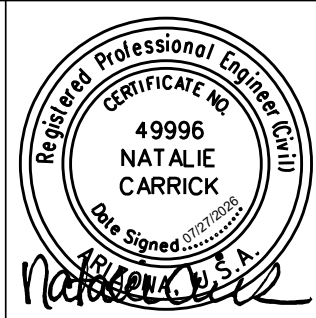
ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	52	58	
	LOCATION SR89A AT PAGE SPRINGS ROAD						DWG NO. T-05.03
STRUCTURE NO.	TRACS NO. F0624 01C		____ OF ____				

ROADWAY LIGHTING POLE & LUMINAIRE SCHEDULE STATION 521+00 TO STATION 530+00												
POLE NO.	CIRCUIT	ROADWAY	STATION	OFFSET	POLE		FOUNDATION	LUMINAIRE			REMARKS	MAINTENANCE UNIT NO.
					TYPE	BASE		MOUNT	TYPE	NO		
8	1	SB SR 89A	521+72.16	49.6' Rt	G-30	B/A	B/A-2	Mast Arm - 20'	15L	1	See Note 1	
9		NB SR 89A	522+99.88	39.3' Lt							See Note 2	
10	2	NB SR 89A	523+03	39.7' Lt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
11	1	NB SR 89A	523+63.60	59.9' Rt	G-30	B/A	B/A-2	Mast Arm - 20'	15L	1	See Note 1	
12		NB SR 89A	524+11.68	71.8' Lt							See Note 2	
13	2	SB SR 89A	523+52	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
14	2	NB SR 89A	524+89.35	42.0' Rt	G-30	B/A	B/A-2	Mast Arm - 20'	15L	1	See Note 1	
15	1	SB SR 89A	525+32	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
16	1	NB SR 89A	526+45	41.4' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
17	2	SB SR 89A	527+12	40.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
18	2	NB SR 89A	528+15	40.8' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
19	1	SB SR 89A	528+92	54.7' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
20	1	NB SR 89A	529+85	39.7' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
21	1	NB SR 89A	53+07	15.9' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		
22	2	NB SR 89A	51+61	16.0' Rt	G-30	B/A	B/A-2	Mast Arm - 10'	15L	1		

CONDUCTOR SCHEDULE				
	CONDUIT RUN NUMBER	1	2	3
	CONDUIT SIZE IN INCHES	2	2	2
AWG	CIRCUIT PHASE			
#12	Lighting (Pole to pull box)	2		
#8	Lighting Circuit 1		2	2
	Lighting Circuit 2		2	
#8	Bond	1	1	1

POLE/CONDUCTOR SCHEDULE CONSTRUCTION NOTES:

1. Remove existing luminaire and install new LED luminaire on existing pole.
All existing LED luminaries will be replaced with 15 L LED.
2. Remove existing pole and associated equipment.



	NAME	DATE
DESIGN	HEN	07/26
DRAWN	SRH	07/26
CHECKED	NFC	07/26
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 1602) 333-2200		

ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION TRAFFIC DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 089A YV 362	FEDERAL ID NO. A89-B(225)T	SHEET NO. 54	TOTAL SHEETS 58	RECORD DRAWING					
	MILEPOST												
	STRUCTURE NO.												
SR 89A & PAGE SPRINGS RD POLE & CONDUCTOR SCHEDULES STA 521+00 TO STA 530+00		SR89A AT PAGE SPRINGS ROAD											
		TRACS NO. F0624 01C		DWG NO. T-05.05 ____ 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: F0624 01C

C. Project Name/Location (be consistent with the
plan set cover sheet):
SR 89A at Page Springs Road,
Intersection Improvement

City: N/A County: Yavapai
Beginning Latitude (NAD 83): 34°47'18"N
Beginning Longitude (NAD 83): 111°55'07"W
Ending Latitude (NAD 83): 34°47'49"N
Ending Longitude (NAD 83): 111°54'52"W

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: New Roadway Widening,
Drainage Improvements, Pavement Marking,
Lighting Improvements, and Signing Improvements.

II. HYDROLOGIC INFORMATION

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

Percentage before Construction: 18.72%

Percentage after Construction: 18.67%

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)

Lower Colorado Region

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 Matting
☒ 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):

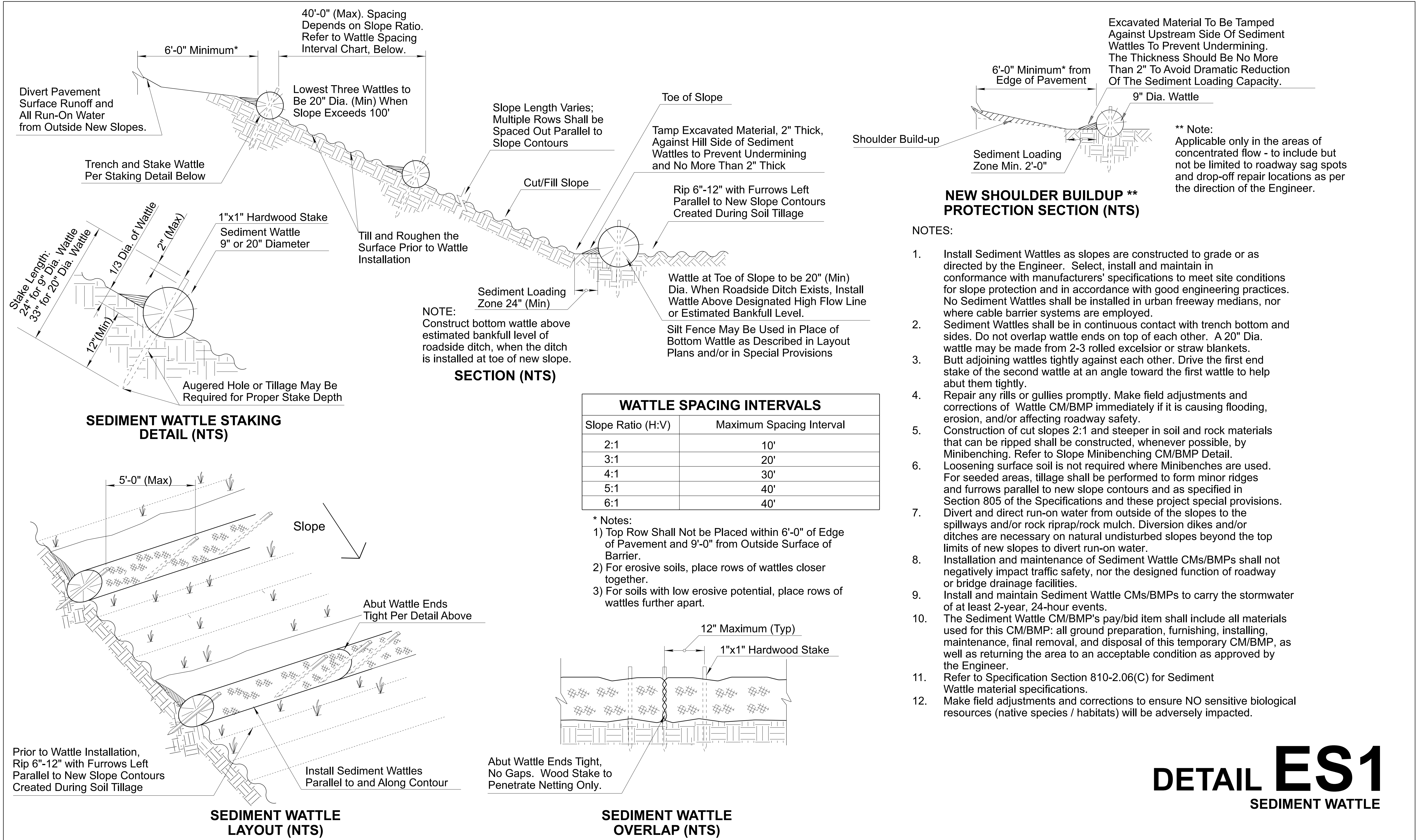
- ☐ Crown Ditch/Dike
☐ Rock Protection
☒ Rock Riprap Channel Lining
☐ Sediment Basin
☐ Embankment Curb
☐ Spillways
☐ Downdrains
☐ Minibenching
☐ Solid Waste Management
☐ **Rock-filled Stormwater Infiltration CM/BMP as Infiltration Basin and/or Trench
☐ **Filtration Structures
☐ **Infiltration Basin and/or 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:

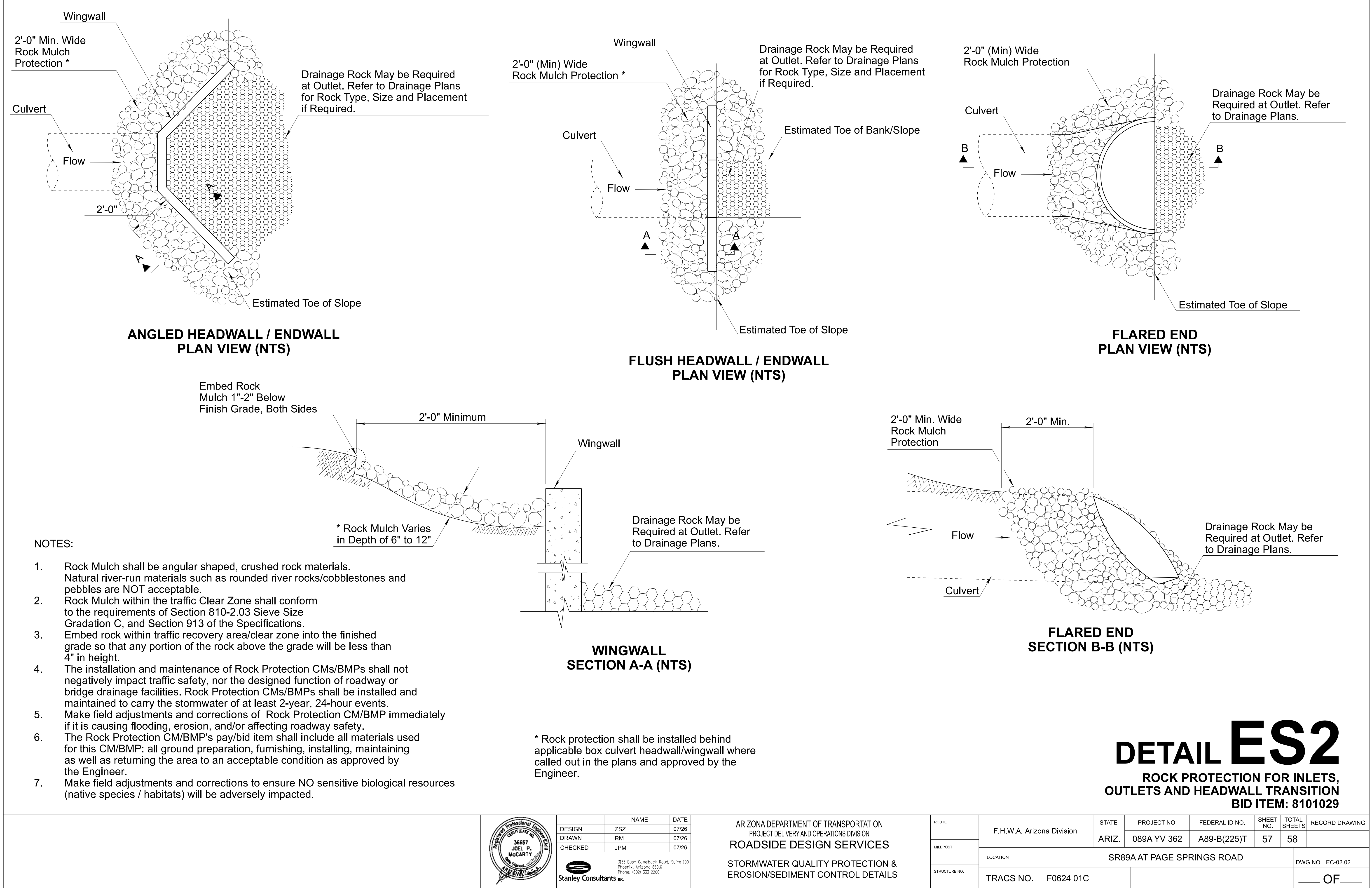
ADOTWater@azdot.gov

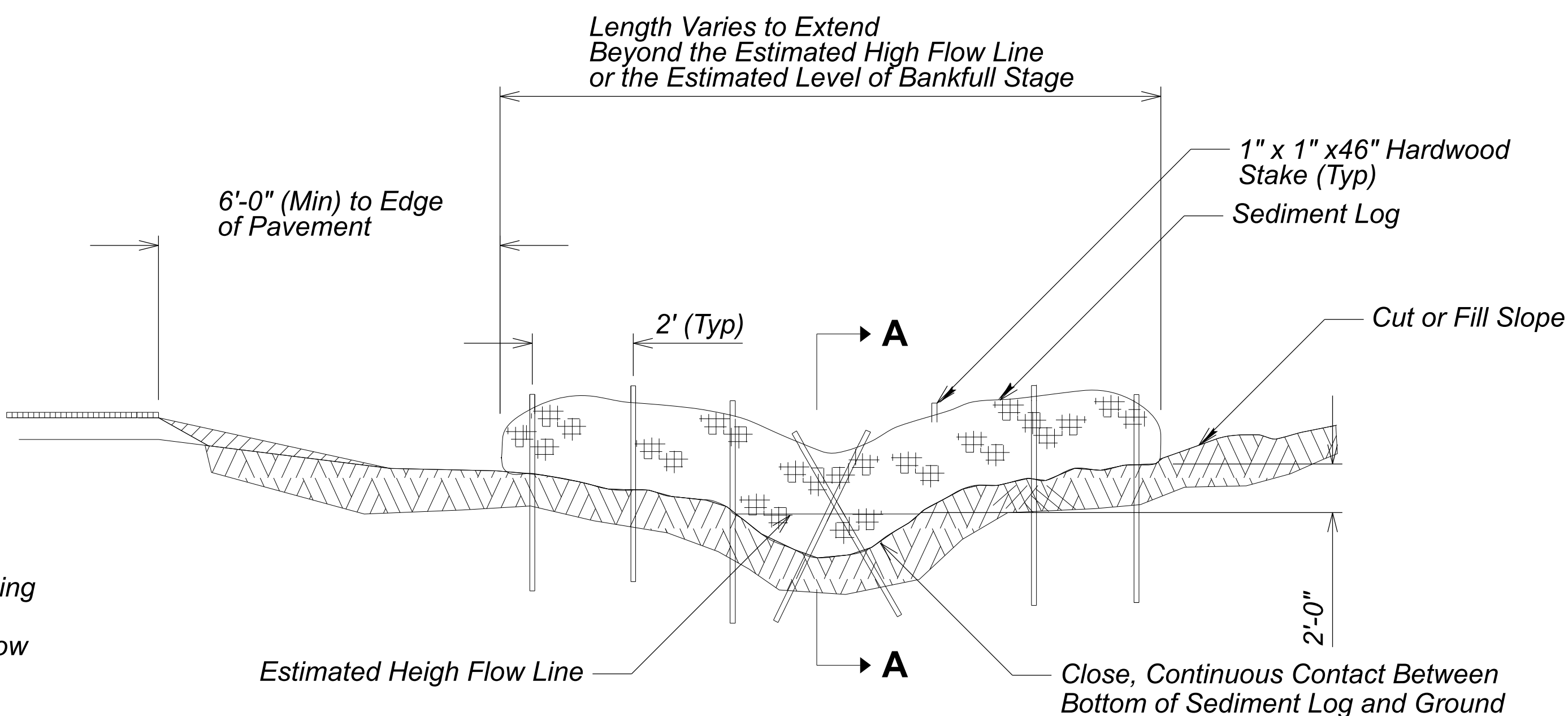
STORMWATER & AIR QUALITY
CONTROL MEASURE INDEX SHEET (CMIS)

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADSIDE DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DESIGN	RSM	07/26		MILEPOST			089A YV 362	A89-B(225)T	55	58	
	DRAWN	ZMZ	07/26									
	CHECKED	JPM	07/26									
	 Stanley Consultants INC.	3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 333-2200			CONTROL MEASURE INDEX SHEET			STRUCTURE NO.	SR89A AT PAGE SPRINGS ROAD			
					TRACS NO. F0624 01C							___ OF ___



	DESIGN ZSZ 07/26	DRAWN RM 07/26	CHECKED JPM 07/26	NAME ZSZ 07/26	DATE 07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADSIDE DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO. 089A YV 362	FEDERAL ID NO. A89-B(225)T	SHEET NO. 56	TOTAL SHEETS 58	RECORD DRAWING
 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: (602) 333-2200	STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS	MILEPOST	SR89A AT PAGE SPRINGS ROAD											DWG NO. EC-02.01
			TRACS NO. F0624 01C											





1"x1"x46" Hardwood Stake To Protrude 2" Max. Above Log.

Ground

Flow

2"

Fractured / Crushed Angular Rock Mulch Wedge (approx. 12" wide x 5" high) to be Tamped Against Both Upstream and Downstream Sides of Sediment Log to Prevent Undermining. Rock Size Shall Be Gradation C as Per Section 810-2.03 of the Specifications.

Downstream Side

2'-0"

20" Dia.

Close, Continuous Contact Between Bottom of Sediment Log and Ground

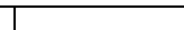
SECTION A-A (NTS)

1. Sediment Logs shall not be installed in the urban freeway medians, nor where cable barrier systems are employed.
2. Locate Sediment Logs as indicated in plans, SWPPP or as directed by the Engineer.
3. Select, install and maintain Logs per manufacturers' specifications and good engineering practices.
4. Lay Sediment Log across prepared roadside ditch or channel. Trenching or burial of Sediment Logs is not required. The close, continuous contact between the bottom of the Log and the ground is mandatory. The Logs shall be installed in the roadside ditch, swale or channel bottom perpendicular to the flow of water as shown on detail this sheet.
5. Stake Log as shown. Stakes shall be placed through downstream side only as shown.
6. DO NOT drive stakes through center of the Log. Stakes must be driven into the ground as shown.
7. Ensure that no gaps exist between soil and bottom of Sediment Log. Repair any rills or undercuts promptly.
8. Placement of Sediment Logs shall be evaluated by the Engineer in rocky soil conditions.
9. Remove Sediment Log CMs/BMPs within the ditches/channels and around the storm drain inlets as per the direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
10. Dispose of Sediment Logs and trapped sediment material and fill trench created by Sediment Log.
11. The installation and maintenance of Sediment Log CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Sediment Logs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
12. Make field adjustments and corrections of Sediment Log CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.

13. *Rock mulch/riprap may be required for channel/ditch lining or rock check dams for longitudinal ditch slopes that exceed 5% and/or for soil conditions not suitable for Log installation.*
14. *The Sediment Log 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, as well as returning the area to an acceptable condition as approved by the Engineer.*
15. *Refer to Specification Section 810-2.06(B) for Sediment Log material specifications.*
16. *Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.*
17. *Construct Rock Wedge with angular-shaped Gradation C Rock Mulch as defined in Section 810-2.03 of the Specifications and project special provisions. Natural river-run materials such as rounded river rocks/cobblestones and pebbles are NOT acceptable.*

DETAIL ES3

SEDIMENT LOG

	DESIGN	ZSZ	07/26	ARIZONA DEPARTMENT OF TRANSPORTATION PROJECT DELIVERY AND OPERATIONS DIVISION ROADSIDE DESIGN SERVICES	ROUTE	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	RM	07/26		MILEPOST		ARIZ.	089A YV 362	A89-B(225)T	58	58	
	CHECKED	JPM	07/26			STRUCTURE NO.	LOCATION	SR89A AT PAGE SPRINGS ROAD				
	 3133 East Camelback Road, Suite 100 Phoenix, Arizona 85016 Phone: 602-333-2000				STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS		TRACS NO. F0624 01C		____ OF ____			