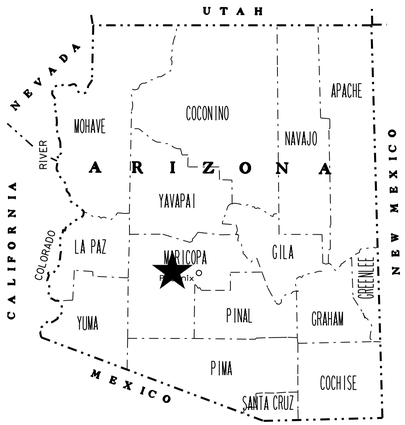
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

ADOT

PROJECT PLANS



STATE HIGHWAY
EHRENBERG – PHOENIX HIGHWAY
INTERSTATE 10

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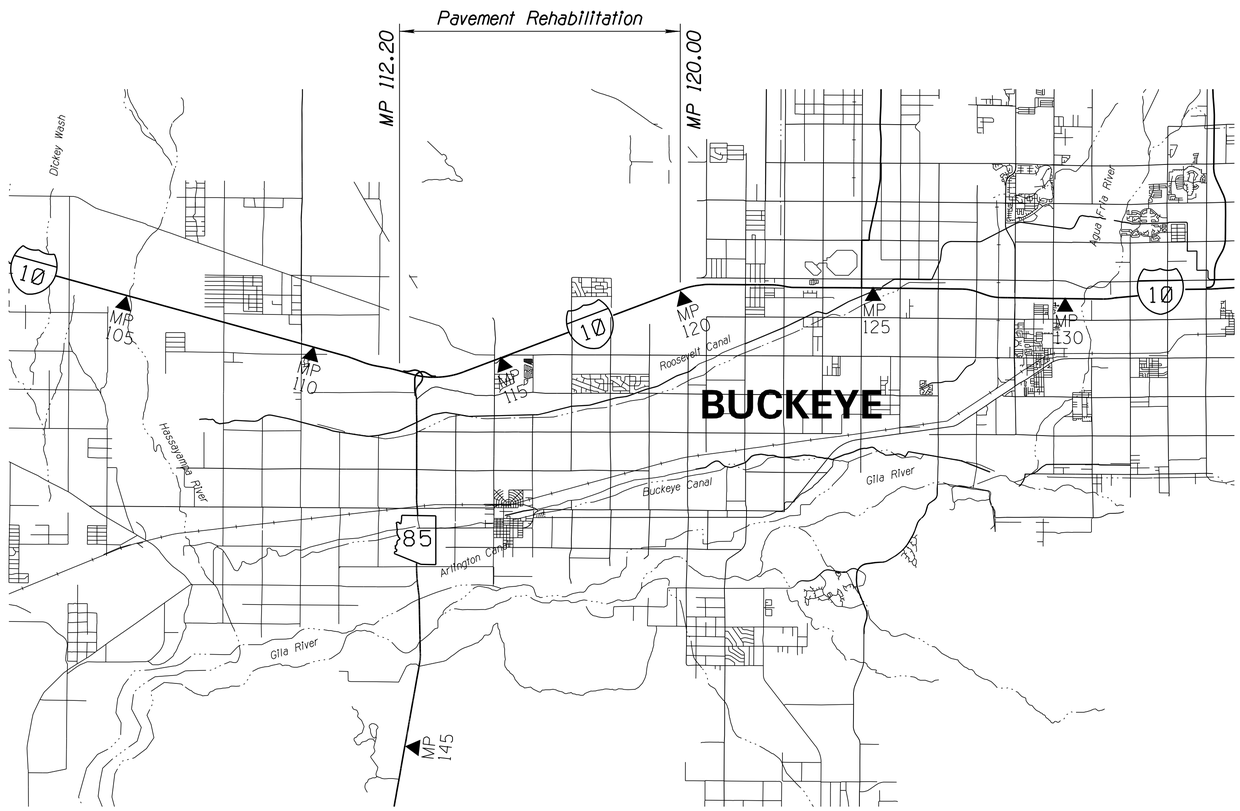

Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

Record Drawings by:

Record Drawings Designer Name & Company

Completion Date

SR 85 – VERRADO WAY (WB)

PROJECT NO. 010 MA 112 H8787 01 C
FEDERAL AID NO. NH–010–A(226)T

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

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

ADOT STANDARD DRAWINGS
C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT
		CONSTRUCTION
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
5/12	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
5/12	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
5/12	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
5/12	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
5/12	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
5/12	C-04.30	SPILLWAY LENGTH TABLE
5/12	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
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
5/12	C-10.00	GUARDRAIL MEASUREMENT LIMITS
5/12	C-10.01	GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB
5/12	C-10.02	GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB
5/12	C-10.03	W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST
5/12	C-10.04	W-BEAM GUARDRAIL, G4(1S), BLOCKED-OUT STEEL POST
5/12	C-10.05 SH 1	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.05 SH 2	W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER
5/12	C-10.06 SH 1	W-BEAM GUARDRAIL, NESTED, TYPES 1 AND 2
5/12	C-10.06 SH 2	W-BEAM GUARDRAIL, NESTED, TYPE 3
5/12	C-10.07 SH 1	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.07 SH 2	W-BEAM GUARDRAIL, BOLTED ANCHOR
5/12	C-10.08	W-BEAM GUARDRAIL, END ANCHOR
5/12	C-10.20	THRIE-BEAM GUARDRAIL, G9, BLOCKED-OUT STEEL POST
5/12	C-10.30 SH 1	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.30 SH 2	GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32" TYPE 'F'
5/12	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
5/12	C-10.42 SH 1	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 2	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.42 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER
5/12	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
5/12	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
5/12	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
5/12	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
5/12	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER
5/12	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/12	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/12	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
5/12	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
5/12	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 1
5/12	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F', TANGENT DEPARTURE TYPE 2
5/12	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 0"
5/12	C-10.77	CONCRETE HALF-BARRIER TRANSITION, END TERMINAL CURB AND GUTTER
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, TYPES 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
5/12	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	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

REV.: 05/12

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

	NAME	DATE
CONSTRUCTION Standards	Marfida Blalock	05/2016
PROJECT NO. 010 MA 112 H 8787 01 C	1A OF 40	
RECORD DRAWING DATA / FEDERAL AID NO. NH-010-A(226)T / REC. DWG. DATE	OF	

NORMAL.TBL

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE MAY 2015

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

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

NO.1	DESCRIPTION OF REVISION: REVISED ALL DRAWINGS AND RE-ISSUED, CREATED SHEET 2.	MADE BY L. LOPEZ	DATE 5/15
NO.2	DESCRIPTION OF REVISION: REVISED M-2 SHT2, M-11, M-19 SHT5 SAW, REVISED 5-7 SHT3 ON PCL, UPDATED BORDER TITLE BLOCK.	MADE BY L. LOPEZ	DATE 6/14

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

	NAME	DATE
SIGNING & MARKING STANDARDS	Thomas L Tortice	5-19-2016

PROJECT NO. 010 MA 112 H8787 01C — IB-1 OF 40

RECORD DRAWING DATA — FEDERAL AID NO. NH-010-A(226)T — REC. DWG. DATE — OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE MAY 2015

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

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

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1	REMOVED W-26 SHT 1, REVISED W-26 SHT 1 & SHT 2, REVISED W-36, W-37, S-5, S-6, S-9 SHT 2.	L. LOPEZ	6/14
NO.2	DESCRIPTION OF REVISION: REVISED ALL DRAWINGS AND RE-ISSUED, CREATED SHEET 2.	L. LOPEZ	8/11

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

	NAME	DATE
SIGNING & MARKING STANDARDS	Thomas L Tortice	5-19-2016

PROJECT NO. 010 MA 112 H8787 01C — IB-2 OF 40

RECORD DRAWING DATA — FEDERAL AID NO. NH-010-A(226)T — REC. DWG. DATE — OF

ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 1 OF 2)
EFFECTIVE MAY 2015

REVISION DATE	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
03/10	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 DATE	STANDARD NUMBER		SUBJECT: TRAFFIC SIGNALS AND LIGHTING DETAILS
	T.S. 4		**POLES AND POSTS**
10/13	4-1		TYPE "A" POLE
10/13	4-2		TYPE "E" POLE
10/13	4-3		TYPE "F" POLE
10/13	4-4		TYPE "G" POLE
10/13	4-5		ALUMINUM TYPE "G" POLE
10/13	4-6		ALUMINUM TYPE "H" POLE
10/13	4-7		ALUMINUM TYPE "I" POLE
10/13	4-8		TYPE "J" POLE
10/13	4-9		TYPE "K" POLE
10/13	4-10		TYPE "Q" POLE
10/13	4-11		TYPE "R" POLE
10/13	4-12		TYPE "S" POLE
10/13	4-13		ALUMINUM TYPE "S" POLE
10/13	4-14	SHT 1	TYPE "T" POLE
10/13	4-14	SHT 2	TYPE "S" AND "T" STEEL TWIN LUMINAIRE MOUNTING BRACKET AND EXTENSIONS
10/13	4-15		ALUMINUM TYPE "T" POLE
10/13	4-16		TYPE "U" POLE ELLIPTICAL BASE DETAILS
10/13	4-17	SHT 1	TYPE "U" POLE SQUARE BASE
10/13	4-17	SHT 2	TYPE "U" POLE ROUND POLE / SQUARE BASE
03/10	4-17	SHT 3	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17	SHT 4	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17	SHT 5	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-17	SHT 6	TYPE "U" POLE ROUND POLE / SQUARE BASE
10/13	4-18		TYPE "V" POLE AND 60' OR 65' MAST ARM
10/13	4-19		TYPE "W" POLE AND 60' OR 65' MAST ARM
03/10	4-20		POLE HAND HOLE DETAIL
03/10	4-21		EQUIPMENT MOUNTING HEIGHT DETAILS
03/15	4-22		PEDESTRIAN PUSH BUTTON POST "TYPE PB POLE"
10/13	4-23		POLE FOUNDATION ANCHOR BOLTS
03/10	4-26		STEEL MAST ARM DETAILS LUMINAIRE AND SIGNAL ARMS TO 20'
03/10	4-27		ALUMINUM TRUSS ARM DETAILS TYPE G, H, AND I POLES
03/10	4-28		SIGNAL MAST ARM CONNECTION DETAIL TYPE J AND Q POLES
03/10	4-29		SIGNAL MAST ARM CONNECTION DETAIL TYPE K AND R POLES
03/10	4-30		MAST ARM CONNECTION DETAIL TYPE V AND W POLES
03/10	4-31		SIGNAL MAST ARM TENON DETAIL
12/12	4-32		TYPICAL HIGHWAY LIGHTING OFFSETS IN CUT AND FILL SECTIONS
	T.S. 5		**POLE BASES - SPECIAL**
03/15	5-0		TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES
12/12	5-1		TYPE 2 CAST ALUMINUM BREAK-AWAY BASE
12/12	5-2		TYPE 3 CAST ALUMINUM BREAK-AWAY BASE
12/12	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

NO.1	DESCRIPTION OF REVISION	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE
REVISED STDS 1-2, 1-11, 2-7, 4-22, 5-0, 6-4.		REVISED TS 0-1. UPDATED BORDER TITLE BLOCK.		L. LOPEZ	03/15
				L. LOPEZ	05/15

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

	NAME	DATE
TRAFFIC SIGNAL & LIGHTING STANDARDS	Thomas L Tortice	5-19-2016

PROJECT NO. 010 MA 112 H8787 01C — IC-1 OF 40

RECORD DRAWING DATA — FEDERAL AID NO. NH-010-A(226)T — REC. DWG. DATE — OF

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ADOT STANDARD DRAWINGS

TRAFFIC SIGNAL AND LIGHTING STANDARDS
(SHEET 2 OF 2)
EFFECTIVE MAY 2015

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**
01/12	8-0	TRAFFIC SIGNAL VEHICLE FACE ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-1	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-2	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
01/12	8-3	VEHICLE TRAFFIC SIGNAL FACE ASSEMBLY
10/13	8-4 SHT 1	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION
01/12	8-4 SHT 2	12-INCH VEHICLE TRAFFIC SIGNAL HOUSING/SECTION NOTES
01/12	8-4 SHT 3	VEHICLE TRAFFIC SIGNAL HOUSING/SECTION DETAILS
03/10	8-4 SHT 4	VISORS FOR 8-INCH AND 12-INCH VEHICLE TRAFFIC SIGNAL FACE ASSEMBLIES
01/12	8-5	FLASHING BEACON SIGNAL FACE ASSEMBLY
01/12	8-6	LED LAMP FOR PROGRAMMED VISIBILITY SIGNAL
01/12	8-7 SHT 1	PEDESTRIAN SIGNAL ASSEMBLY REQUIREMENTS AND DETAILS
01/12	8-7 SHT 2	PEDESTRIAN SIGNAL ASSEMBLY HOUSING
01/12	8-7 SHT 3	PEDESTRIAN SIGNAL ASSEMBLY VISOR
	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**
01/12	15-0 SHT 1	GENERAL NOTES
01/12	15-0 SHT 2	GENERAL NOTES
01/12	15-0 SHT 3	GENERAL NOTES
01/12	15-1 SHT 1	STEEL POLE TYPICAL DETAILS
01/12	15-1 SHT 2	STEEL POLE FOUNDATION DETAILS
01/12	15-1 SHT 3	STEEL POLE ATTACHMENT DETAILS
01/12	15-1 SHT 4	WOOD POLE TYPICAL DETAILS
01/12	15-1 SHT 5	WOOD POLE TYPICAL DETAILS
01/12	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

NO.	DESCRIPTION OF REVISION	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE
1	REVISED STDS 7-1, 11-1, 11-2, 13-3. ADDED NEW STD 1-12.	2	REVISED TS 0-1 ON SHT1. UPDATED BORDER TITLE BLOCK.	L. LOPEZ	5/15
				L. LOPEZ	3/15

ADOT STANDARD DRAWINGS
REVISION DATES AND STANDARD NO.'S REVIEW

	NAME	DATE
TRAFFIC SIGNAL AND LIGHTING STANDARDS	Thomas L Tortice	5-19-2016

PROJECT NO. 010 MA 112 H8787 01C — 1C-2 OF 40

RECORD DRAWING DATA — FEDERAL AID NO. NH-010-A(226)T — REC. DWG. DATE — OF

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ADOT STANDARD DRAWINGS

STRUCTURE DETAIL DRAWINGS

REVISION DATE	SD NUMBER	SUBJECT
RAILINGS		
6/12	SD 1.01	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (34")
6/12	SD 1.02	F-SHAPE BRIDGE CONCRETE BARRIER AND TRANSITION (44")
6/12	SD 1.03	THRIE BEAM GUARD RAIL TRANSITION SYSTEM
3/09	SD 1.04	COMBINATION PEDESTRIAN-TRAFFIC BRIDGE RAILING
3/09	SD 1.05	PEDESTRIAN FENCE FOR BRIDGE RAILING SD1.04
6/09	SD 1.06 (1 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (2 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (3 OF 4)	TWO TUBE BRIDGE RAIL
6/09	SD 1.06 (4 OF 4)	TWO TUBE BRIDGE RAIL
4/10	SD 1.11	BARRIER JUNCTION BOX
APPROACHES		
12/07	SD 2.01	APPROACH SLAB DETAILS
12/07	SD 2.02	TYPE 1 ANCHOR SLAB DETAILS
12/07	SD 2.03	TYPE 2 ANCHOR SLAB DETAILS
9/09	SD 2.04	SLOPE PAVING DETAILS
DECK JOINTS		
6/09	SD 3.01	DECK JOINT ASSEMBLY - COMPRESSION SEAL
12/09	SD 3.02	DECK JOINT ASSEMBLY - STRIP SEAL
12/09	SD 3.03	DECK JOINT ASSEMBLY - RAISED STRIP SEAL
SUBSTRUCTURE		
11/12	SD 5.01	STRUCTURAL EXCAVATION - PAYMENT LIMITS
11/12	SD 5.02	STRUCTURE BACKFILL - PAYMENT LIMITS
DRAINAGE STRUCTURES		
5/15	SD 6.01 (1 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
2/12	SD 6.01 (2 OF 5)	REINFORCED CONCRETE BOX CULVERTS - MISCELLANEOUS DETAILS
2/12	SD 6.01 (3 OF 5)	REINFORCED CONCRETE BOX CULVERTS - EXTENSION DETAILS
2/12	SD 6.01 (4 OF 5)	REINFORCED CONCRETE BOX CULVERTS - STRUCTURAL EXCAVATION & STRUCTURE BACKFILL
5/15	SD 6.01 (5 OF 5)	REINFORCED CONCRETE BOX CULVERTS - SINGLE BARREL (0'-30' FILLS)
5/15	SD 6.02 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (0'-15' FILLS)
5/15	SD 6.02 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - DOUBLE BARREL (15'-30' FILLS)
5/15	SD 6.03 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (0'-15' FILLS)
5/15	SD 6.03 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - TRIPLE BARREL (15'-30' FILLS)
5/15	SD 6.04 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (0'-15' FILLS)
5/15	SD 6.04 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FOUR BARREL (15'-30' FILLS)
5/15	SD 6.05 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (0'-15' FILLS)
5/15	SD 6.05 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - FIVE BARREL (15'-30' FILLS)
5/15	SD 6.06 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (0'-15' FILLS)
5/15	SD 6.06 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - SIX BARREL (15'-30' FILLS)
2/12	SD 6.07	REINFORCED CONCRETE BOX CULVERTS - 16'x 14' EQUIPMENT PASS (0'-20' FILLS)
5/15	SD 6.08 (1 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (2 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.08 (3 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (4 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 0°to 20° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.08 (5 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (6 OF 8)	REINFORCED CONCRETE BOX CULVERTS - OUTLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.08 (7 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 3' to 7'
2/12	SD 6.08 (8 OF 8)	REINFORCED CONCRETE BOX CULVERTS - INLET WINGS - SKEW 25°to 45° - CULVERT HEIGHT 8' to 12'
5/15	SD 6.09 (1 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 2 :1 SLOPE
5/15	SD 6.09 (2 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 4 :1 SLOPE
5/15	SD 6.09 (3 OF 3)	REINFORCED CONCRETE BOX CULVERTS - HEADWALL QUANTITIES - 6 :1 SLOPE
5/15	SD 6.10 (1 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 3' to 7'
2/12	SD 6.10 (2 OF 2)	REINFORCED CONCRETE BOX CULVERTS - INLET OR OUTLET - LEVEL WINGS - CULVERT HEIGHT 8' to 12'
2/12	SD 6.11 (1 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON DETAILS
5/15	SD 6.11 (2 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (2 :1 SLOPE)
5/15	SD 6.11 (3 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (4 :1 SLOPE)
5/15	SD 6.11 (4 OF 4)	REINFORCED CONCRETE BOX CULVERTS - OUTLET APRON - DIMENSIONS & QUANTITIES (6 :1 SLOPE)
7/12	SD 6.30 (1 OF 5)	PIPE CULVERT HEADWALLS - MISCELLANEOUS DETAILS
7/12	SD 6.30 (2 OF 5)	PIPE CULVERT HEADWALLS - INLET AND OUTLET - 18" to 42" PIPES
7/12	SD 6.30 (3 OF 5)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET AND OUTLET - 48" to 84" PIPES
7/12	SD 6.30 (4 OF 5)	PIPE CULVERT HEADWALLS - SKEWED INLET AND OUTLET - 48" to 84" PIPES
7/12	SD 6.30 (5 OF 5)	PIPE CULVERT HEADWALLS - MULTI-PIPE - 48" to 84" PIPES
7/12	SD 6.31 (1 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET
7/12	SD 6.31 (2 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 2 :1 SLOPE
7/12	SD 6.31 (3 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 4 :1 SLOPE
7/12	SD 6.31 (4 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE INLET - 6 :1 SLOPE
7/12	SD 6.31 (5 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET
7/12	SD 6.31 (6 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 2 :1 SLOPE
7/12	SD 6.31 (7 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 4 :1 SLOPE
7/12	SD 6.31 (8 OF 8)	PIPE CULVERT HEADWALLS - RIGHT ANGLE OUTLET - 6 :1 SLOPE

STRUCTURE DETAIL DRAWINGS

REVISION DATE	SD NUMBER	SUBJECT
DRAINAGE STRUCTURES (Continued)		
7/12	SD 6.32 (1 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET
7/12	SD 6.32 (2 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 2 :1 SLOPE
7/12	SD 6.32 (3 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 4 :1 SLOPE
7/12	SD 6.32 (4 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW INLET - 6 :1 SLOPE
7/12	SD 6.32 (5 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET
7/12	SD 6.32 (6 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 2 :1 SLOPE
7/12	SD 6.32 (7 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 4 :1 SLOPE
7/12	SD 6.32 (8 OF 8)	PIPE CULVERT HEADWALLS - 15° SKEW OUTLET - 6 :1 SLOPE
7/12	SD 6.33 (1 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET
7/12	SD 6.33 (2 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 2 :1 SLOPE
7/12	SD 6.33 (3 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 4 :1 SLOPE
7/12	SD 6.33 (4 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW INLET - 6 :1 SLOPE
7/12	SD 6.33 (5 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET
7/12	SD 6.33 (6 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 2 :1 SLOPE
7/12	SD 6.33 (7 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 4 :1 SLOPE
7/12	SD 6.33 (8 OF 8)	PIPE CULVERT HEADWALLS - 30° SKEW OUTLET - 6 :1 SLOPE
7/12	SD 6.34 (1 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET
7/12	SD 6.34 (2 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 2 :1 SLOPE
7/12	SD 6.34 (3 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 4 :1 SLOPE
7/12	SD 6.34 (4 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW INLET - 6 :1 SLOPE
7/12	SD 6.34 (5 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET
7/12	SD 6.34 (6 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 2 :1 SLOPE
7/12	SD 6.34 (7 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 4 :1 SLOPE
7/12	SD 6.34 (8 OF 8)	PIPE CULVERT HEADWALLS - 45° SKEW OUTLET - 6 :1 SLOPE
7/12	SD 6.35 (1 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITHOUT APRON
7/12	SD 6.35 (2 OF 2)	PIPE CULVERT HEADWALLS - MULTI-PIPE WITH OUTLET APRON
7/12	SD 6.36 (1 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRONS
7/12	SD 6.36 (2 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 2 :1 SLOPE
7/12	SD 6.36 (3 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 4 :1 SLOPE
7/12	SD 6.36 (4 OF 4)	PIPE CULVERT HEADWALLS - OUTLET APRON STEEL LIST - 6 :1 SLOPE
RETAINING WALLS		
1/15	SD 7.01 (1 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (2 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (3 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (4 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
1/15	SD 7.01 (5 OF 5)	RETAINING WALL (REINFORCED CONCRETE CANTILEVER)
9/10	SD 7.02 (1 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
9/10	SD 7.02 (2 OF 2)	RETAINING WALL (MASONRY CANTILEVER)
SOUND BARRIER WALLS		
4/10	SD 8.01	SOUND BARRIER WALL (CONCRETE)
1/13	SD 8.02 (1 OF 2)	SOUND BARRIER WALL (MASONRY)
1/13	SD 8.02 (2 OF 2)	SOUND BARRIER WALL (MASONRY)
TRAFFIC STRUCTURES		
11/04	SD 9.01 (1 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - ELEVATION & NOTES
4/00	SD 9.01 (2 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - FOUNDATION DETAILS
4/00	SD 9.01 (3 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE A SIGN MOUNT ASSEMBLY
4/00	SD 9.01 (4 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - TYPE B SIGN MOUNT ASSEMBLY
4/00	SD 9.01 (5 OF 5)	MEDIAN SIGN STRUCTURE (TWO SIDED) - LIGHT SUPPORT AND MISC. DETAILS
11/04	SD 9.02 (1 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - ELEVATION & NOTES
5/00	SD 9.02 (2 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - FOUNDATION DETAILS
5/00	SD 9.02 (3 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE A SIGN MOUNT ASSEMBLY
5/00	SD 9.02 (4 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - TYPE B SIGN MOUNT ASSEMBLY
5/00	SD 9.02 (5 OF 5)	MEDIAN SIGN STRUCTURE (ONE SIDED) - LIGHT SUPPORT AND MISC. DETAILS
3/11	SD 9.10 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - GENERAL PLAN
3/11	SD 9.10 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - FOUNDATION DETAILS
3/11	SD 9.10 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - POST AND MAST ARM DETAILS
3/11	SD 9.10 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - SIGN SUPPORT DETAILS
3/11	SD 9.10 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR CANTILEVER - LIGHT SUPPORT DETAILS
3/11	SD 9.20 (1 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - GENERAL PLAN
3/11	SD 9.20 (2 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - FOUNDATION DETAILS
3/11	SD 9.20 (3 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - POST AND MAST ARM DETAILS
3/11	SD 9.20 (4 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - SIGN SUPPORT DETAILS
3/11	SD 9.20 (5 OF 5)	TUBULAR SIGN STRUCTURES - TUBULAR FRAME - LIGHT SUPPORT AND MISC. DETAILS
8/02	SD 9.50 (1 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
8/02	SD 9.50 (2 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
8/02	SD 9.50 (3 OF 5)	VARIABLE MESSAGE SIGN - TUBULAR FRAME - MOUNTING & SIGN BRACKET DETAILS
7/00	SD 9.50 (4 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
7/00	SD 9.50 (5 OF 5)	VARIABLE MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
8/02	SD 9.51	DUAL VARIABLE MESSAGE SIGN - TUBULAR FRAME
5/07	SD 9.52 (1 of 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - PLAN & ELEVATION
5/07	SD 9.52 (2 of 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD 9.52 (3 of 5)	DYNAMIC MESSAGE SIGN - TUBULAR FRAME - MOUNTING DETAILS
5/07	SD 9.52 (4 of 5)	DYNAMIC MESSAGE SIGN - CATWALK - HANDRAIL DETAILS
5/07	SD 9.52 (5 of 5)	DYNAMIC MESSAGE SIGN - CATWALK - MISCELLANEOUS DETAILS
1/15	SD 9.53 (1 of 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - PLAN & ELEVATION
1/15	SD 9.53 (2 of 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
1/15	SD 9.53 (3 of 5)	DMS (VARIABLE TILT CABINET) - TUBULAR FRAME - MOUNTING DETAILS
1/15	SD 9.53 (4 of 5)	DMS (VARIABLE TILT CABINET) - CATWALK - HANDRAIL DETAILS
1/15	SD 9.53 (5 of 5)	DMS (VARIABLE TILT CABINET) - CATWALK - MISCELLANEOUS DETAILS

REV.: 5/15

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

	NAME	DATE
STRUCTURES Standards	R. Davis	05-18-16

PROJECT NO.			
010 MA 112 H8787 01C	10	OF	40

RECORD DRAWING DATA	FEDERAL AID NO.	REC. DWG. DATE		OF	
	010-A(226)T				

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	2	40	

010 MA 112

REFERENCES

I-10-2(43)
I-10-2(28)
I-10-2(31)
1990 Milepost Log

MIDPOINT OF PROJECT

Western Zone
State Plane Coordinates

X=305,000
Y=890,000

DESIGN DATA

2017 AADT = 40,438
2027 AADT = 49,119
Mile Post 109.68 to 112.74

2017 AADT = 49,036
2027 AADT = 60,901
Mile Post 112.74 to 114.86

2017 AADT = 53,137
2027 AADT = 66,804
Mile Post 114.86 to 117.00

2017 AADT = 74,999
2027 AADT = 96,110
Mile Post 117.00 to 120.20

Design Speed = 75 MPH

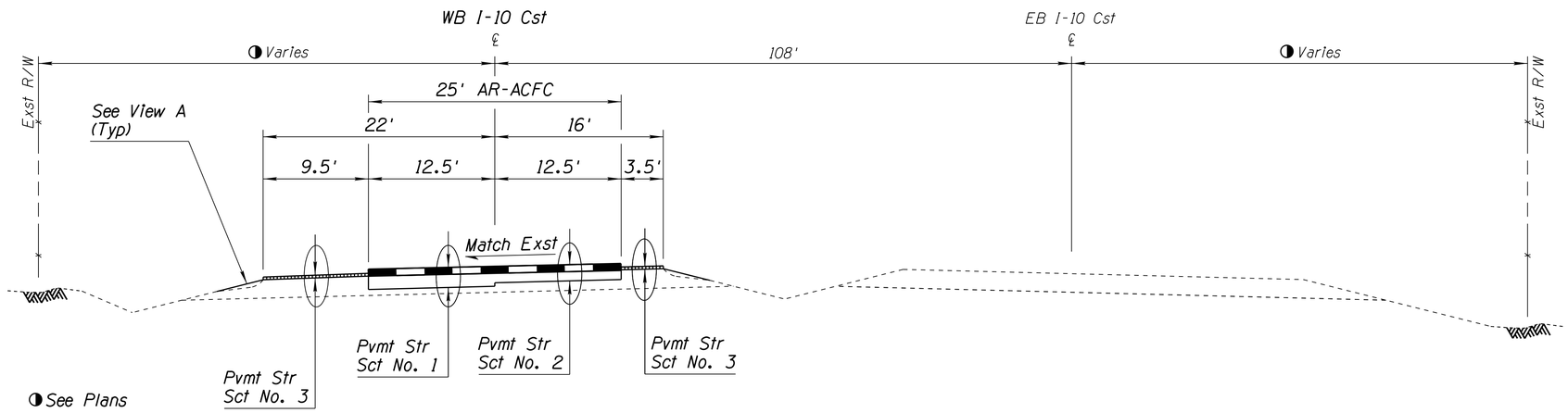
INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1D	ADOT Standard Drawings
2-5	Design Sheets
6	Pipe Extension Summary Sheet
7	Detail Sheet
8-24	Plan Sheets
25-38	Traffic Sheets
39-40	Erosion Control Sheets

LENGTH OF PROJECT

WESTBOUND

Sta 5917+76.00	to 5924+69.18 Bk	=	693.18'	
Sta 5923+87.24 Ahd	to 6013+02.80 Bk	=	8,915.56'	
Sta 6013+36.89 Ahd	to 6057+59.22	=	4,422.33'	
Sta 6057+59.22	to 6059+40.44	=	181.22'	Miller Rd TI OP
Sta 6059+40.44	to 6114+61.70 Bk	=	5,521.26'	
Sta 6114+60.76 Ahd	to 6170+23.26	=	5,562.50'	
Sta 6170+23.26	to 6171+85.38	=	162.12'	Pvmt Exception
Sta 6171+85.38	to 6329+22.00	=	15,736.62'	
	Gross Length	=	41,194.79'	
	Net Length	=	41,032.67'	
	Mile Post 112.20 to 120.00	=	7.80 Miles	



TYPICAL MAINLINE SECTION

Sta 5917+76.00	to 5921+71.00	
Sta 5928+99.69	to 5973+70.00	
Sta 5978+82.00	to 6013+02.80	Bk
Sta 6013+36.89	Ahd to 6031+78.93	
Sta 6045+50.00	to 6057+59.22	
Sta 6059+40.44	to 6072+50.00	
Sta 6077+14.32	to 6114+61.70	Bk
Sta 6114+60.76	Ahd to 6140+97.00	
Sta 6155+70.00	to 6170+23.26	
Sta 6171+85.38	to 6183+47.00	
Sta 6195+79.00	to 6312+50.00	
Sta 6326+42.00	to 6329+22.00	

LOOP DETECTOR / CLASSIFIER SYSTEMS

Std T.S. 6-1 Type C = Traffic Counter
Std T.S. 6-3 WIM Type SB = Speed and Vehicle Class

Systems	Type	Approximate Location
1 *	SB	WB Sta 6016+44 / MP 114.07
1**	C	WB Sta 6118+02 / MP 116.00
1**	C	WB Sta 6223+62 / MP 118.00

Comments: * Partial Replacement (WB only)
** Full Replacement (WB only)

EARTHWORK QUANTITIES

Borrow (In Place)	48 CY
No Shrink or Swell Applied	
Pipe Backfill	20 CY

GENERAL NOTES

The roadway plans have been designed utilizing the 2012 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

Pavement lift thickness is nominal.

New Right of Way and easements are not required.

Survey Monuments in median must not be disturbed.

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

For R/W information not shown, see Right-of-Way projects No. I-10-2(52), I-10-B-700, I-10-B-801 and Results of Survey 010-MA-094 H6877 01R.

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

Approximately 1,427 Cu Yd of milled AC is estimated for Shoulder Build-Up.

The average project elevation is 1,100'.

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

DESIGN SHEET

ROUTE I-10 LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 1 OF 4

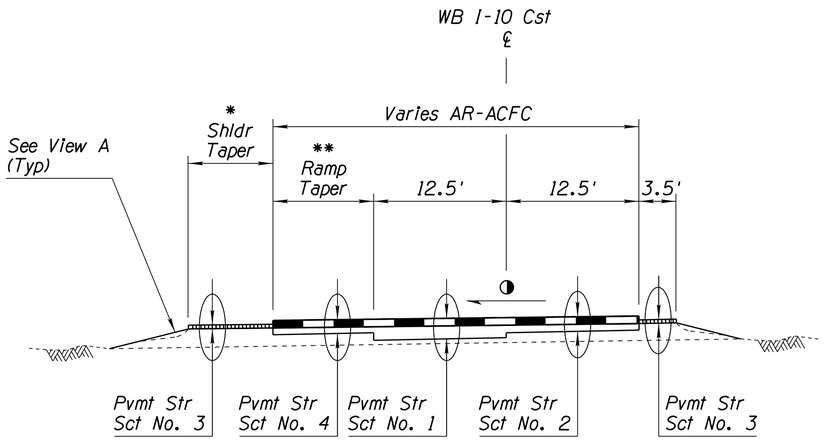
TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	3	40	

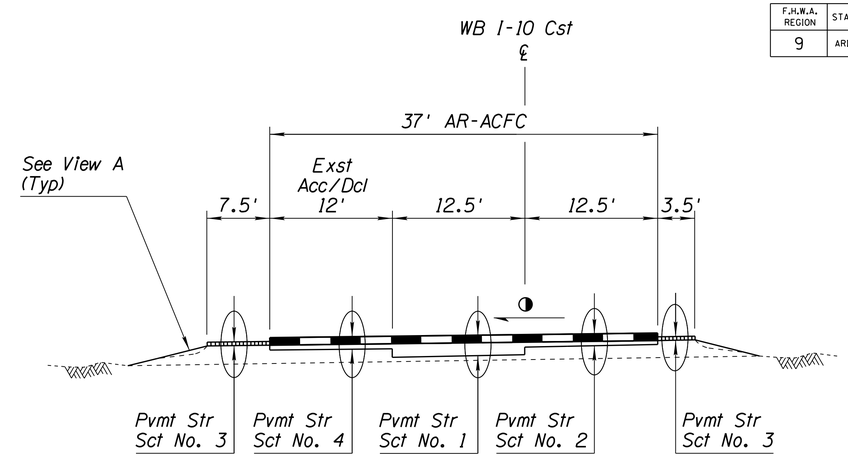
010 MA 112



TYPICAL SECTION

Ramp Tapers

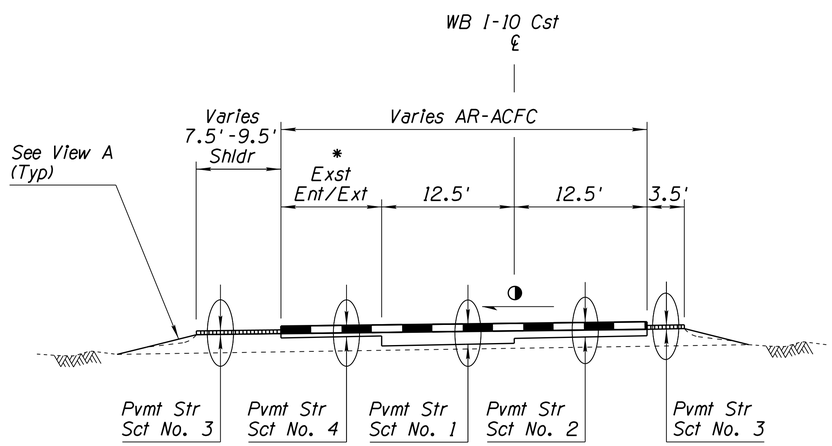
* 9.5'-7.5'	** 0'-12'	Sta	6140+97.00	to	6144+22.00
* 7.5'-9.5'	** 12'-0'	Sta	6192+54.00	to	6195+79.00
* 9.5'-7.5'	** 0'-12'	Sta	6312+50.00	to	6315+00.00



TYPICAL SECTION

Acceleration/Deceleration Lanes

Sta	6144+22.00	to	6151+62.00
Sta	6188+54.00	to	6192+54.00
Sta	6315+00.00	to	6321+99.00

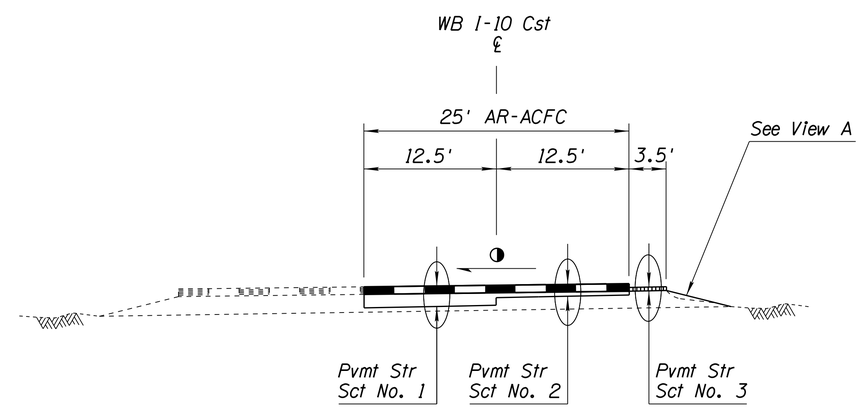


TYPICAL SECTION

Ramp Entrances and Exits

*	0.00'- 27.41'	Sta	5921+71.00	to	5928+99.69
*	40.09'- 0.00'	Sta	5973+70.00	to	5978+82.00
*	12.00'- 16.45'	Sta	6151+62.00	to	6153+67.00
*	16.45'- 34.58'	Sta	6153+67.00	to	6155+70.00
*	33.58'- 12.00'	Sta	6183+47.00	to	6188+54.00
*	12.00'- 30.00'	Sta	6321+99.00	to	6326+42.00

◑ *Match Existing*



TYPICAL SECTION

Sta	6031+78.93	to	6045+50.00
Sta	6072+50.00	to	6077+14.32

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

DESIGN SHEET

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 2 OF 4

TRACS NO. H8787 01C | NH-010-A(226)T | ___ OF ___

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

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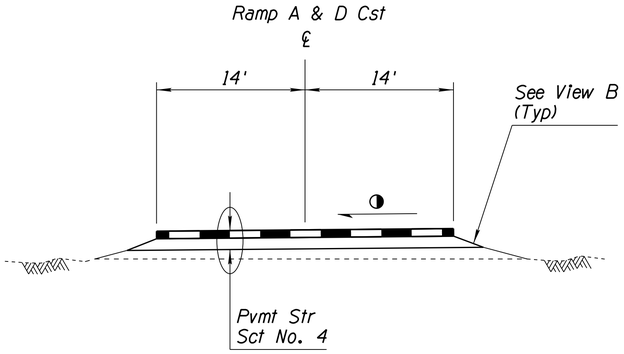
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	4	40	

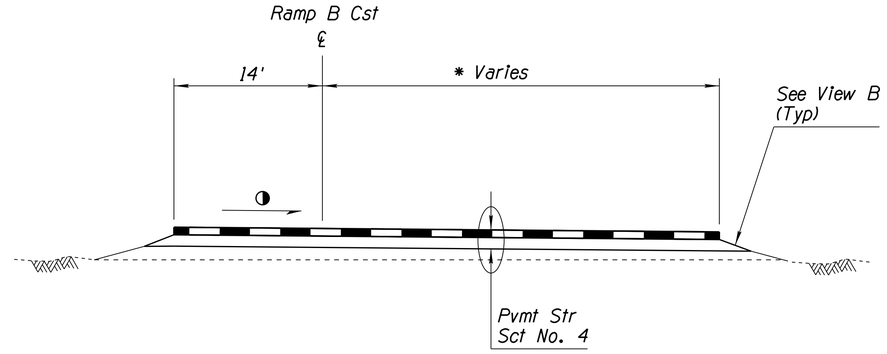
010 MA 112



TYPICAL SECTION RAMP A & D

Watson Rd TI

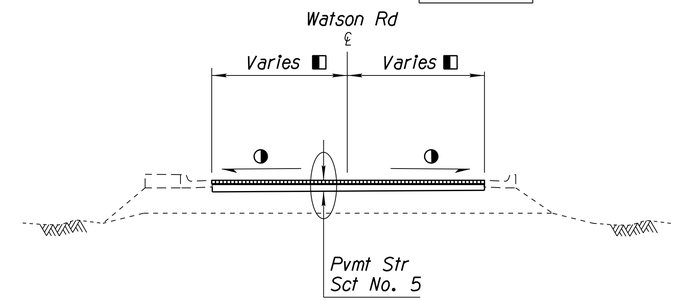
Sta 4+48.46 to 19+77.57
Sta 1+07.11 to 16+86.52



TYPICAL SECTION RAMP B

Watson Rd TI

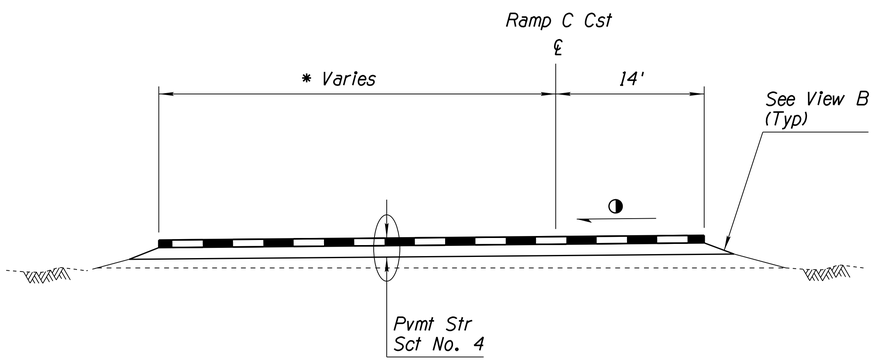
Sta 5+08.56 to Sta 7+40.00 * 8'
Sta 7+40.00 to Sta 11+90.00 * 8'-26'
Sta 11+90.00 to Sta 14+15.42 * 26'



WATSON CROSSROAD

Sta 126+02.45 to Sta 128+02.45
Sta 128+02.45 to Sta 137+96.46 (Paving Exception)
Sta 137+96.46 to Sta 139+96.46

◧ See plans

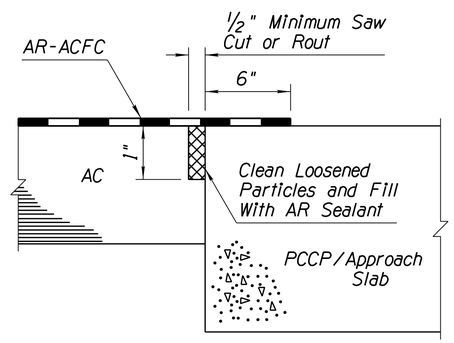


TYPICAL SECTION RAMP C

Watson Rd TI

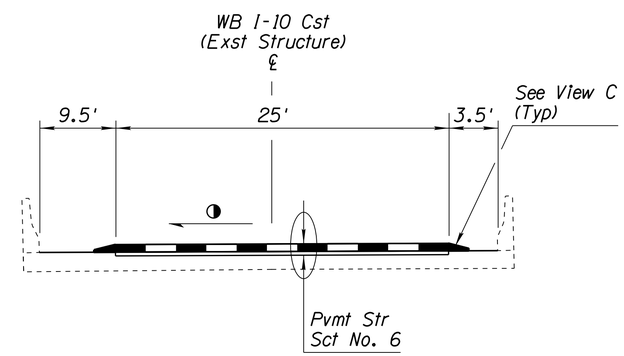
Sta 2+39.70 to 4+65.00 * 26'
Sta 4+65.00 to 9+15.00 * 26'-8'
Sta 9+15.00 to 11+82.27 * 8'

◑ Match Existing Slope



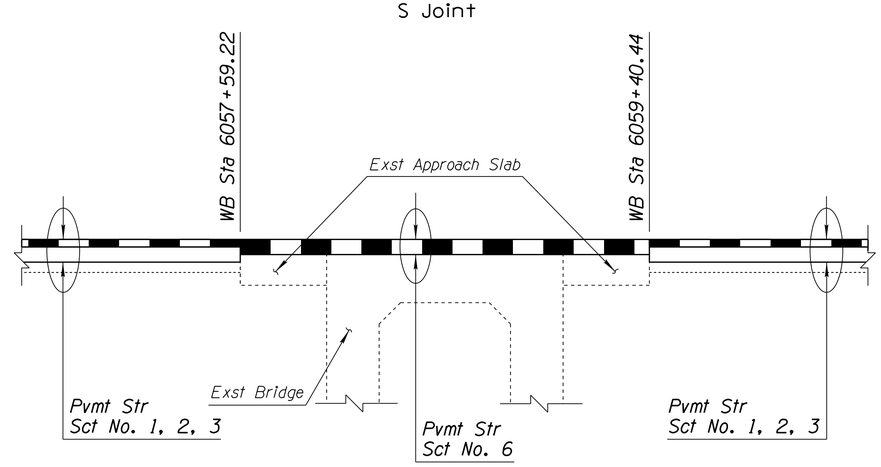
AC/PCCP EDGE-SEAL JOINT

S Joint



BRIDGE WB MILLER RD TYPICAL SECTION

WB Sta 6057+59.22 to 6059+40.44



TREATMENT AT BRIDGE WB MILLER Rd TI OP

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

DESIGN SHEET
TYPICAL SECTIONS

Registered professional engineer (civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 Arizona, U.S.A. EXPIRES 03/31/2018

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

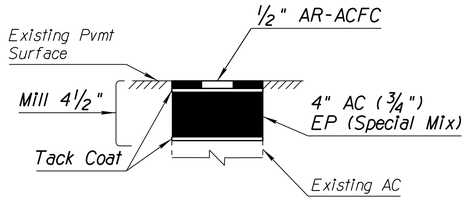
SHEET 3 OF 4

TRACS NO. H8787 01C | NH-010-A(226)T | ___ OF ___

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

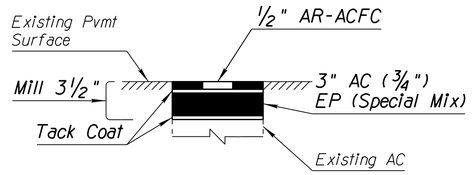
normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	5	40	
		010 MA 112			



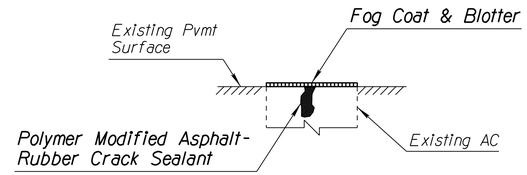
Total Thickness = 4 1/2"

SECTION NO. 1



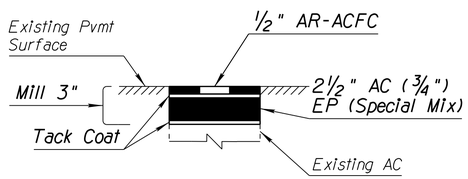
Total Thickness = 3 1/2"

SECTION NO. 2



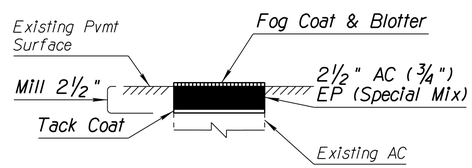
Total Thickness = 0"

SECTION NO. 3



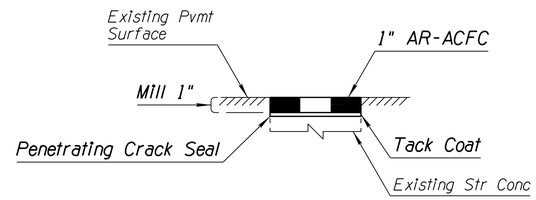
Total Thickness = 3"

SECTION NO. 4



Total Thickness = 2 1/2"

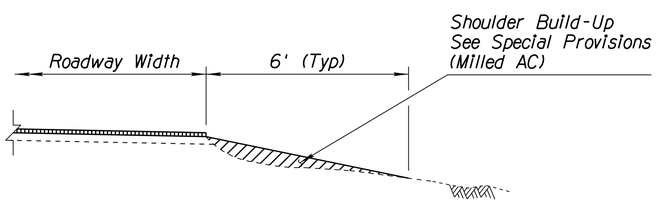
SECTION NO. 5



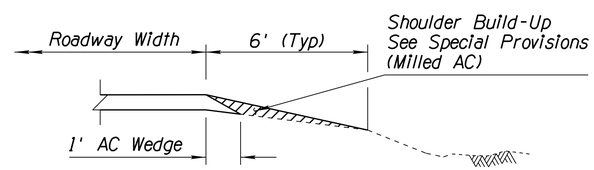
Total Thickness = 1"

SECTION NO. 6

PAVEMENT STRUCTURAL SECTIONS

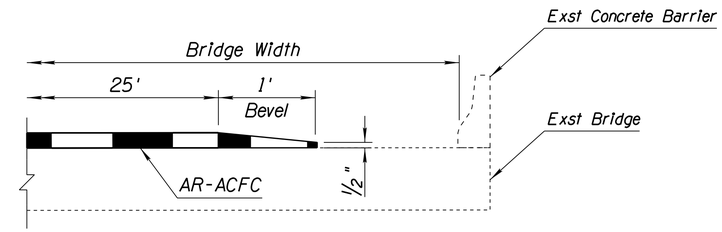


VIEW A
AC SHOULDER BUILD-UP

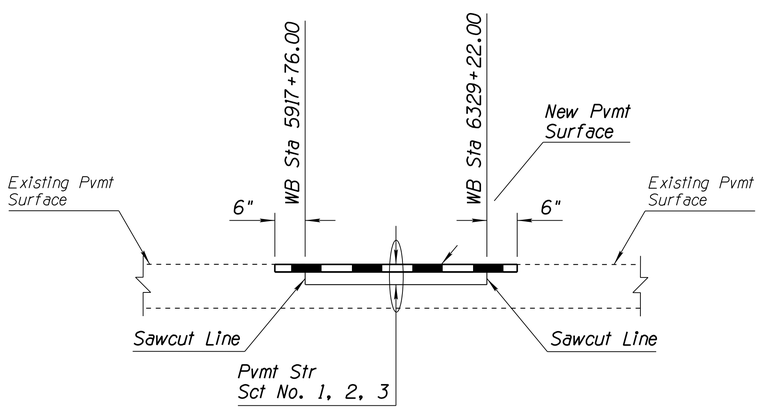


VIEW B
AC SHOULDER BUILD-UP AT RAMPS

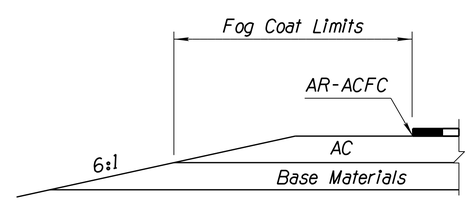
Where milling trench width extends to exst EP, the contractor shall remove any excess AC wedges to the level of the bottom of trench at no cost to the Department.



VIEW C
AR-ACFC



TREATMENT AT BEGINNING AND ENDING OF PROJECT



FOG COAT APPLICATION LIMITS

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

DESIGN SHEET
TYPICAL SECTIONS

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 4 OF 4

TRACS NO. H8787 01C | NH-010-A(226)T | ___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	6	40	

010 MA 112

CSP - CORRUGATED STEEL PIPE

Station	Plan Reference Number	◒ Controlling Fill Height Range	Size (In.)	Length In Place (0.0) (Ft.)	Skew (0) (Degree)	Remove End Section (Each)	Remove Headwall (Each)	Left (0.0) (Ft.)	Right (0.0) (Ft.)	Remove Existing Pipe: Left (0) (Ft.)	Remove Existing Pipe: Right (0) (Ft.)	Corrugation	Wall Thickness (0.000) (In.)	Zinc	Aluminum	Bituminous	Reset Salvaged End Section	New	Detail	Size, (In.) Manhole	Standard or Detail (C-13.25)	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drain (0) (Ft.)	L 24" Slotted Drain (0) (Ft.)	Type	Elevation (0.00)	Grate: Depth (In.)	Grate: L (0.0) (Ft.)	Inlet Depression C-15.70 (Ft.)	Pipe Excavation (0) (Cubic Yard)	Pipe Backfill (0) C-13.15 (Cubic Yard)	Drainage Excavation (0) (Cubic Yard)	Berm Embankment (0) (Cubic Yard)	Dike Embankment (0) (Cubic Yard)	REMARKS
5973+50 Lt	1	1	36		5°00' Rt	2		4		4		A	0.064	X				2																		5		Match existing pipe
6141+45 Lt	2	1	30		9°00' Rt	1		2		2		A	0.064	X				1																		2		Match existing pipe
6324+32 Rt	3	1	48	212	7°30' Lt				26		26	A	0.064	X																		36	20		41		See Detail D01, Match existing pipe
Sheet Total						3												3														36	20		48		

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	2⅔x½	D	6x2
B	3x1	E	3x1 or 9x2½
C	9x2½		

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

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

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

CSP PIPE EXT SUMMARY SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

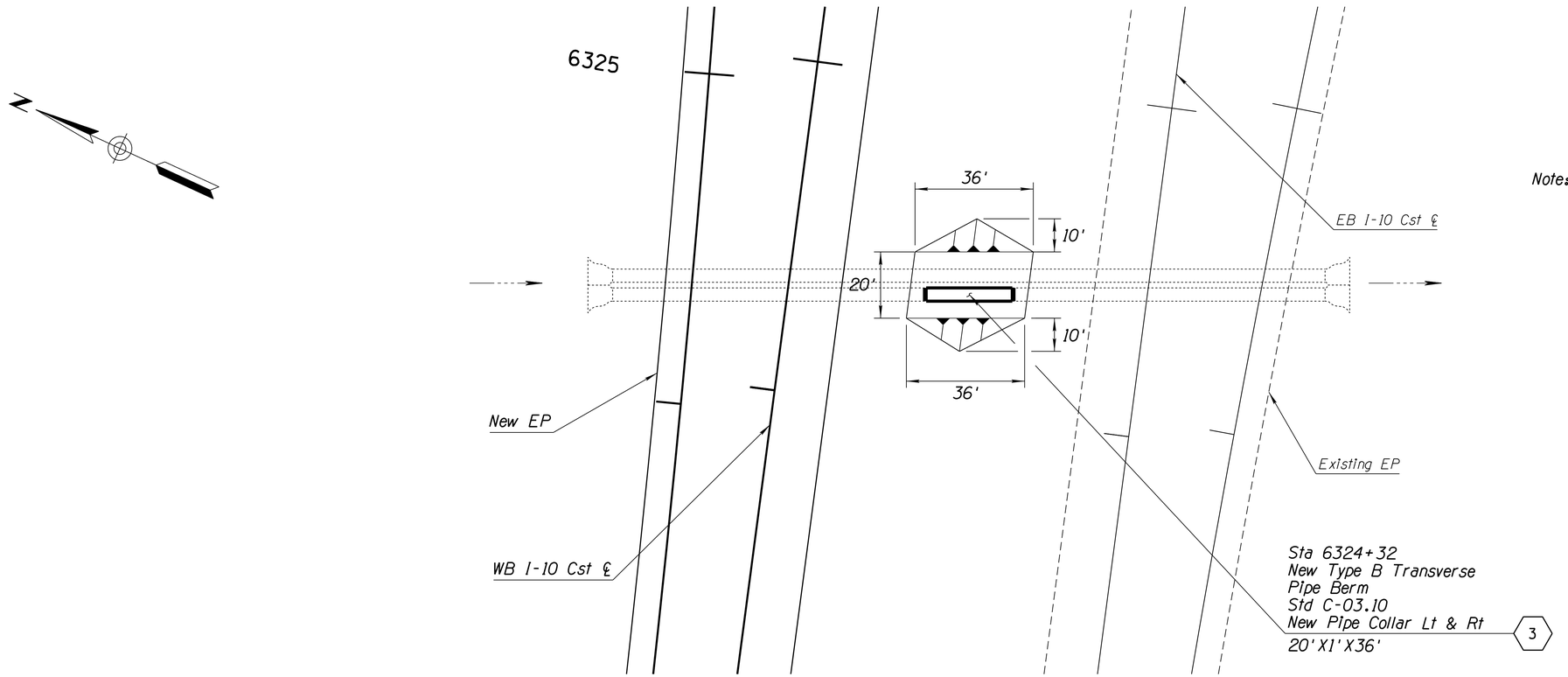
TRACS NO. H8787 01C | NH-010-A(226)T | SHEET 1 OF 1 ___ OF ___

REV. DATE: 07/27/2012

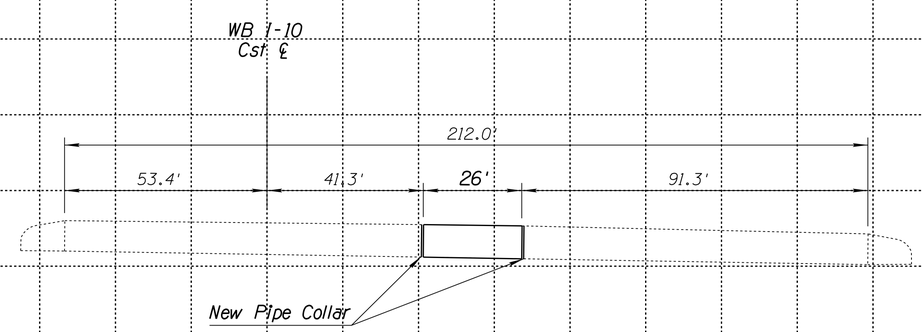
SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	7	40	
		010 MA 112			



Note: 1. Repair only the west side pipe.
2. Top of Berm =1.0' above top of pipe.



Existing 2-48"x212' CMP Skew 7°30' Lt
Remove 26' Offset 41.3' Rt Skew 7°30' Lt
New 48"x26' CMP, 41.3' Rt-67.3' Rt

DETAIL D01

	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

CULVERT DETAIL SHEET
I-10 Sta 6324+32

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 1 OF 1

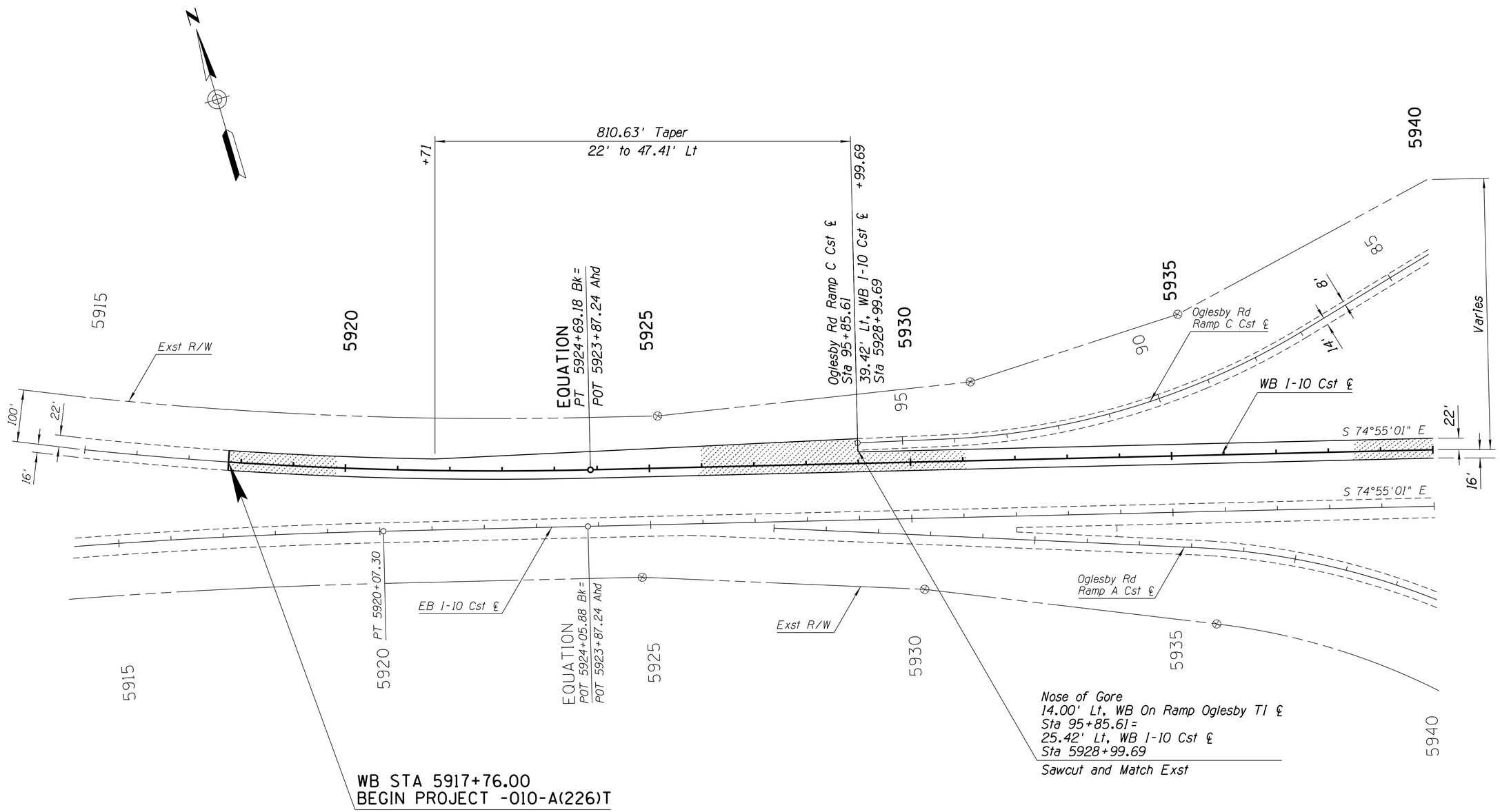
TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	8	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 5915+00 to 5940+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 1 OF 17

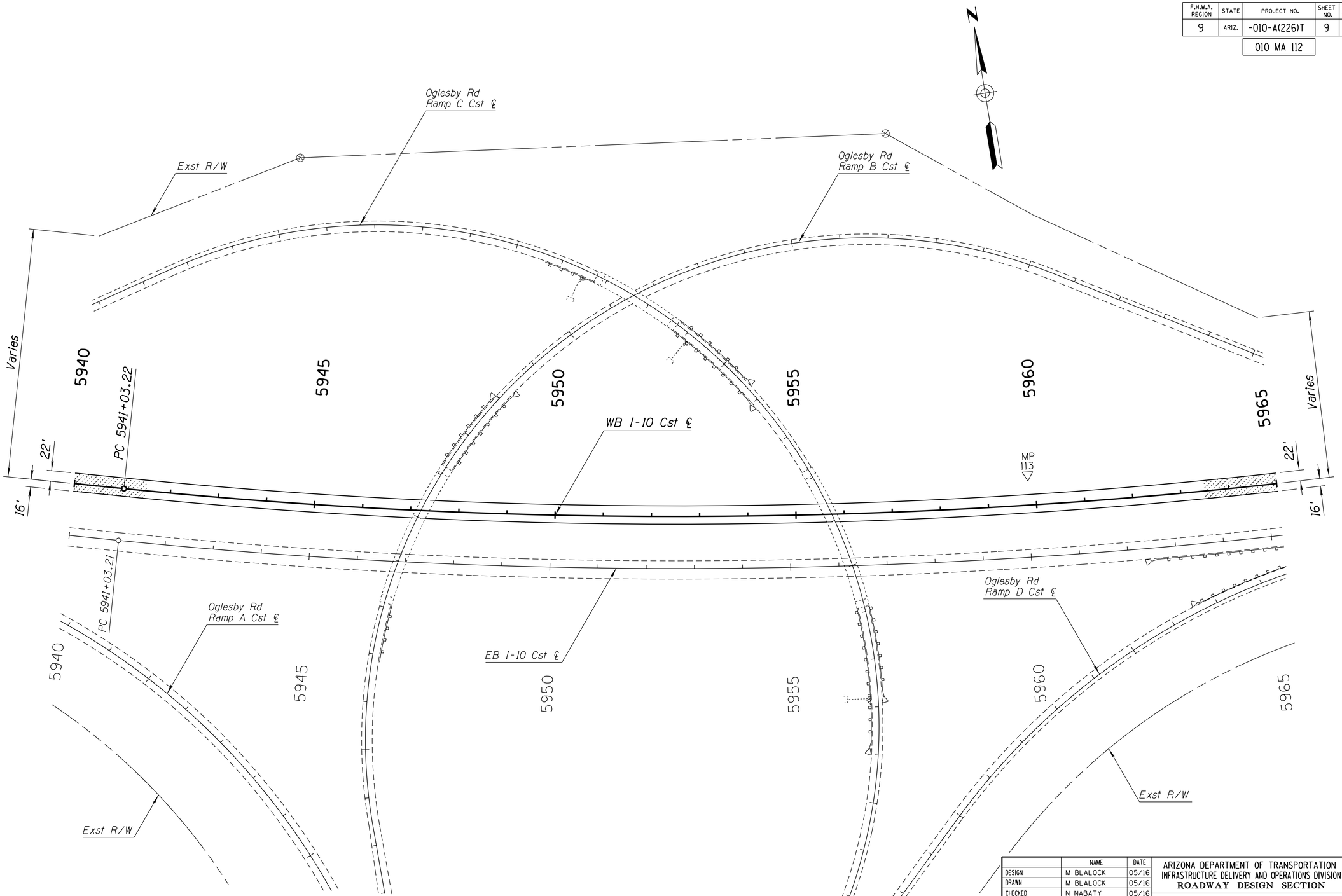
TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	9	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 5940+00 to 5965+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

TRACS NO. H8787 01C

NH-010-A(226)T

49234 NAZAR NABATY
Date Signed 5/16/2016
ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 2 OF 17

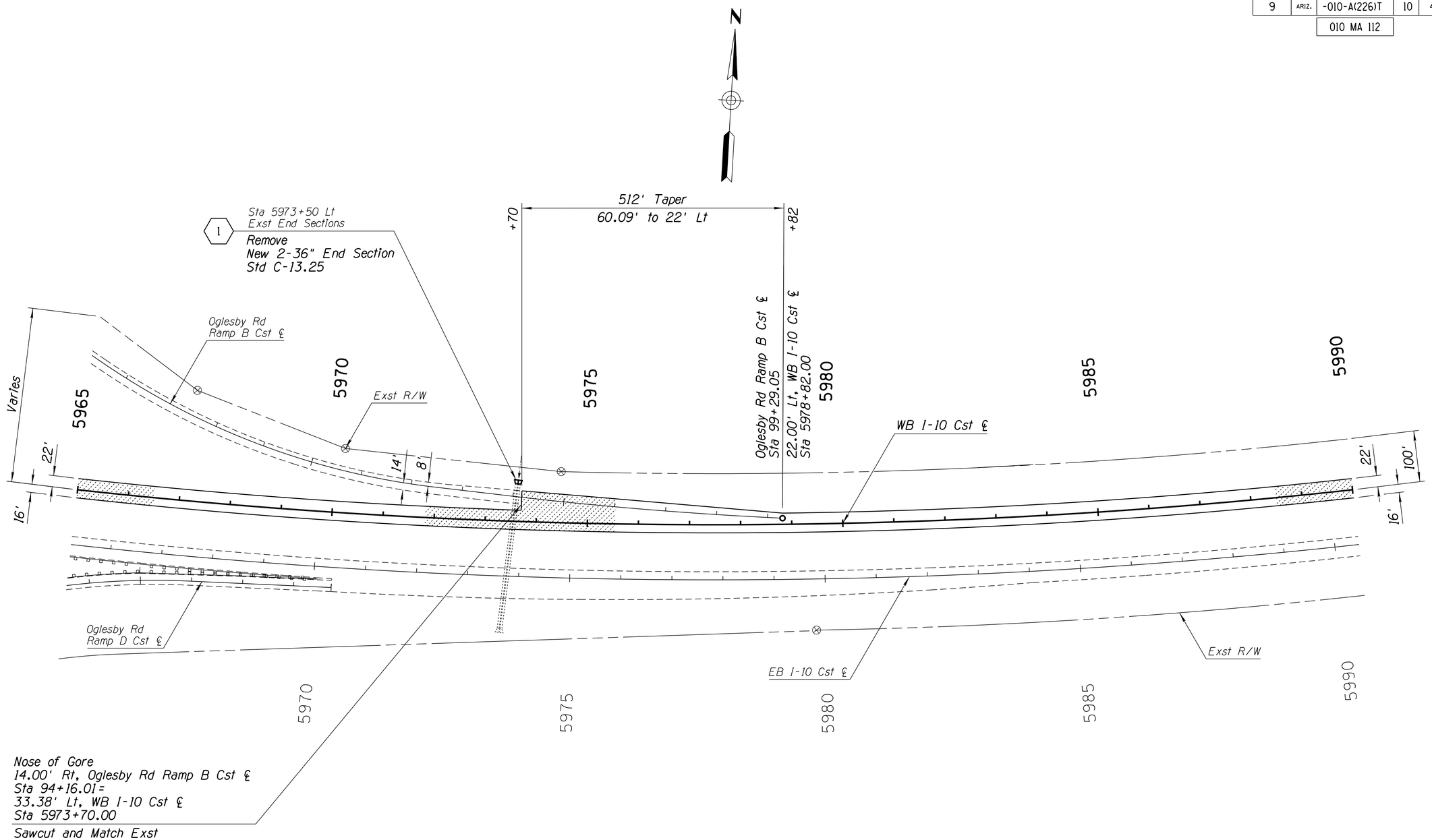
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	10	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 5965+00 to 5990+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 3 OF 17

TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

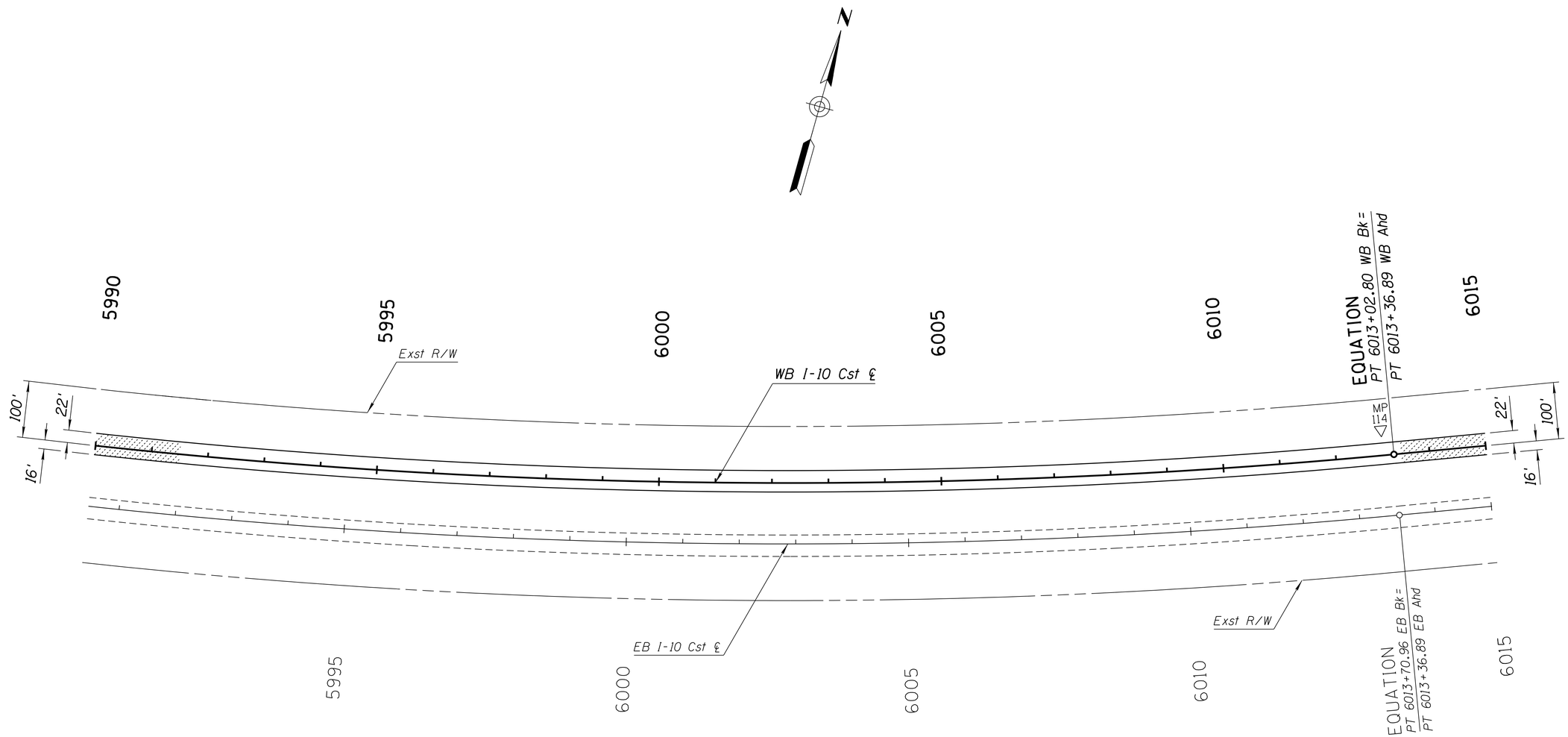
SURVEY NO. | FINISHED PLANS- | REVISIONS- | LOCATION- | DATE-

normal.tbl

V:/Roadway\users\a5972\ 10:23:33 AM 5/18/2016 V:\Roadway\Rdwy\h8787\PS&E\h8787p3.dgn

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	11	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 5990+00 to 6015+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

TRACS NO. H8787 01C | NH-010-A(226)T

49234 NAZAR NABATY ARIZONA, U.S.A. Date Signed 5/16/2016 EXPIRES 03/31/2018

SHEET 4 OF 17

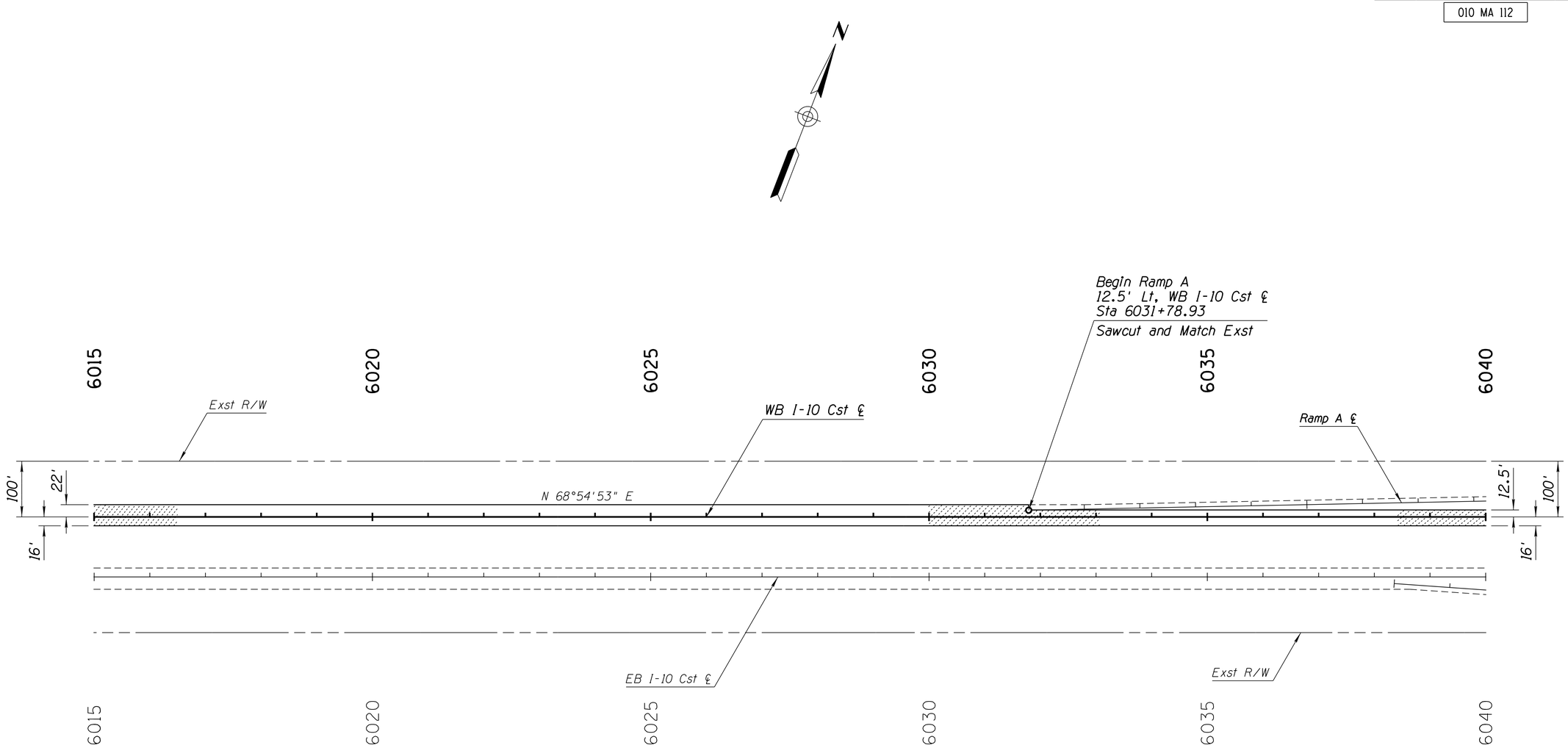
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	12	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6015+00 to 6040+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.

EXPIRES 03/31/2018

SHEET 5 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

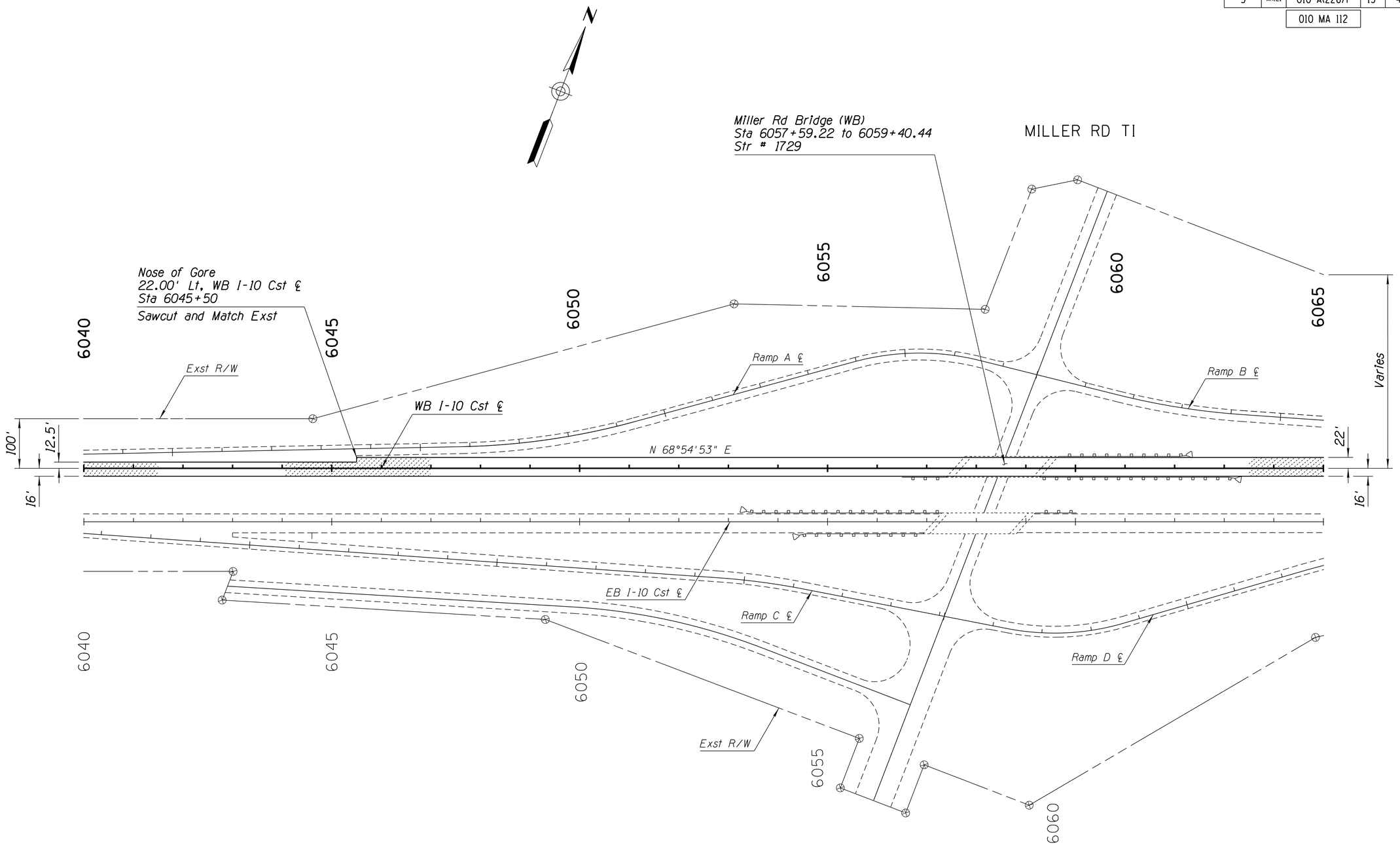
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	13	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6040+00 to 6065+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 6 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

____ OF ____

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

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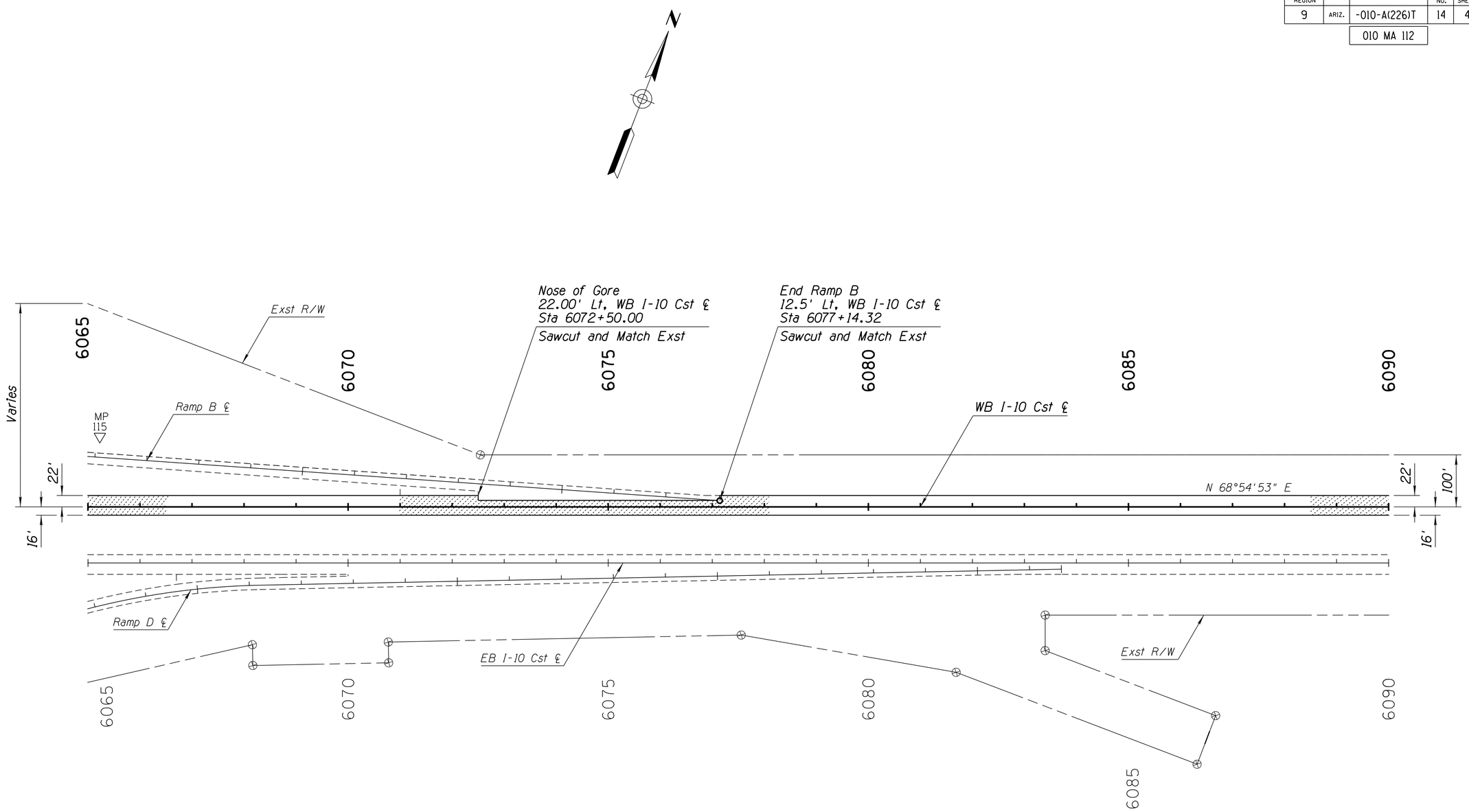
normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	14	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6065+00 to 6090+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 7 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

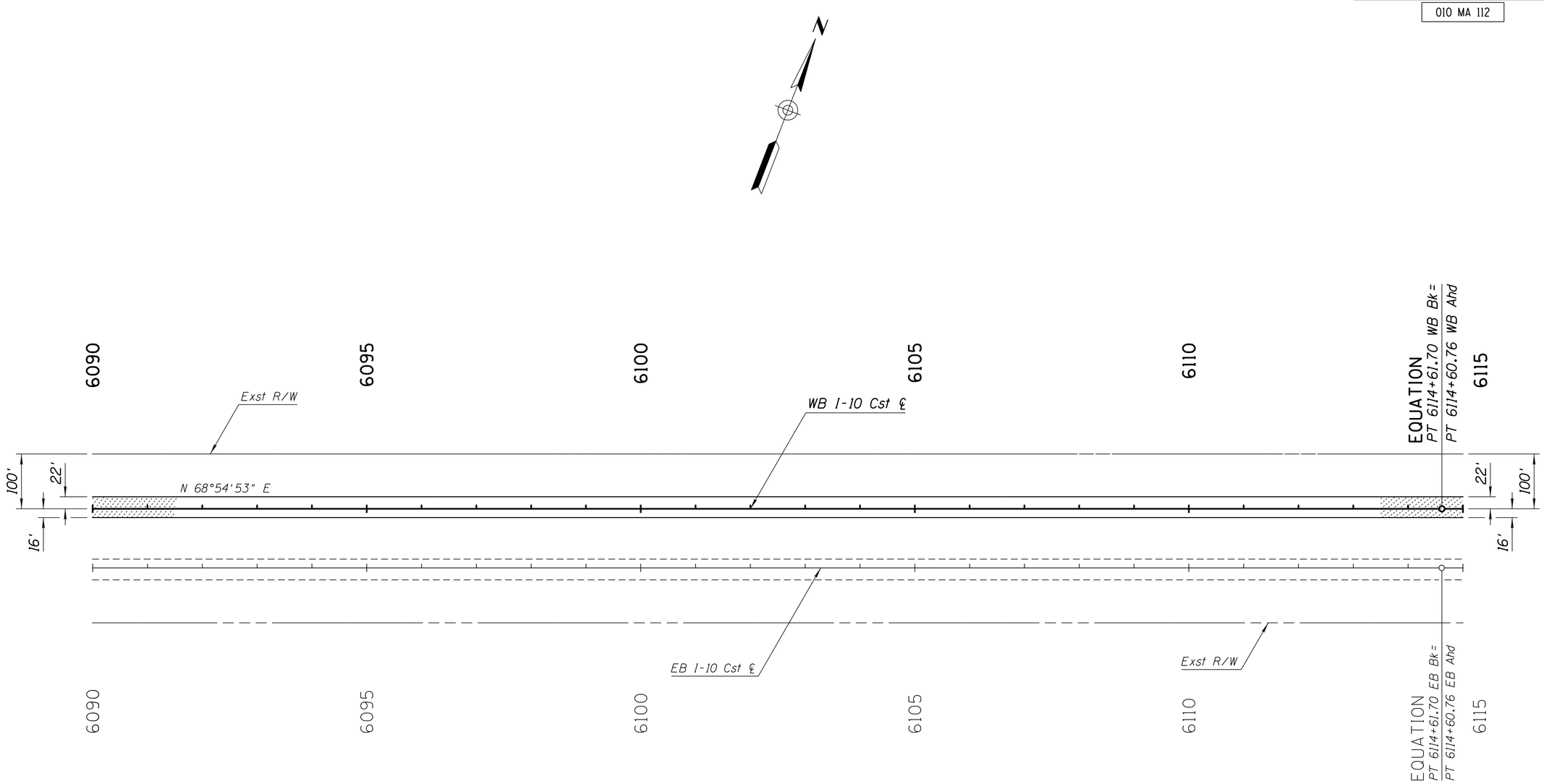
____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	15	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6090+00 to 6115+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 8 OF 17

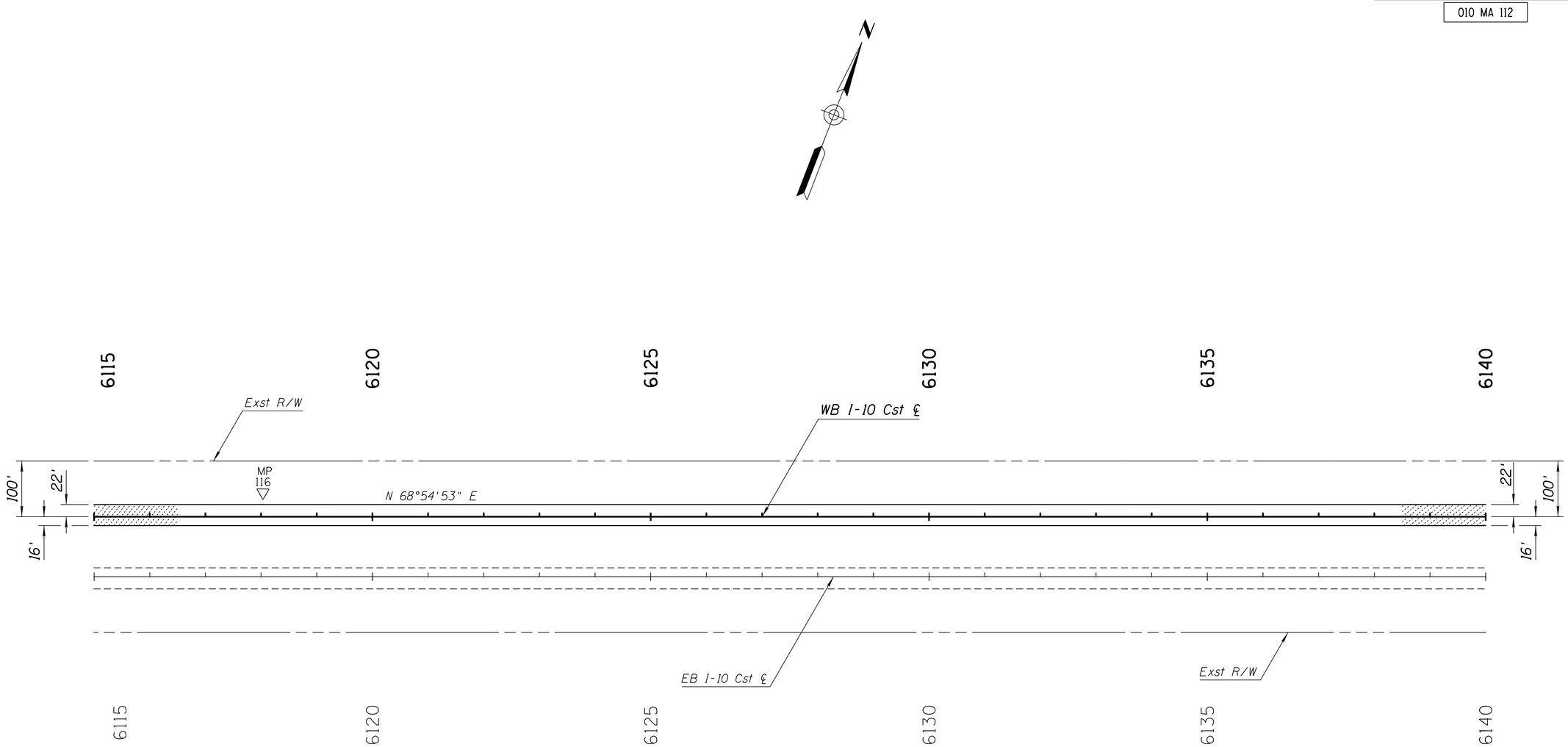
TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	16	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6115+00 to 6140+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 9 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

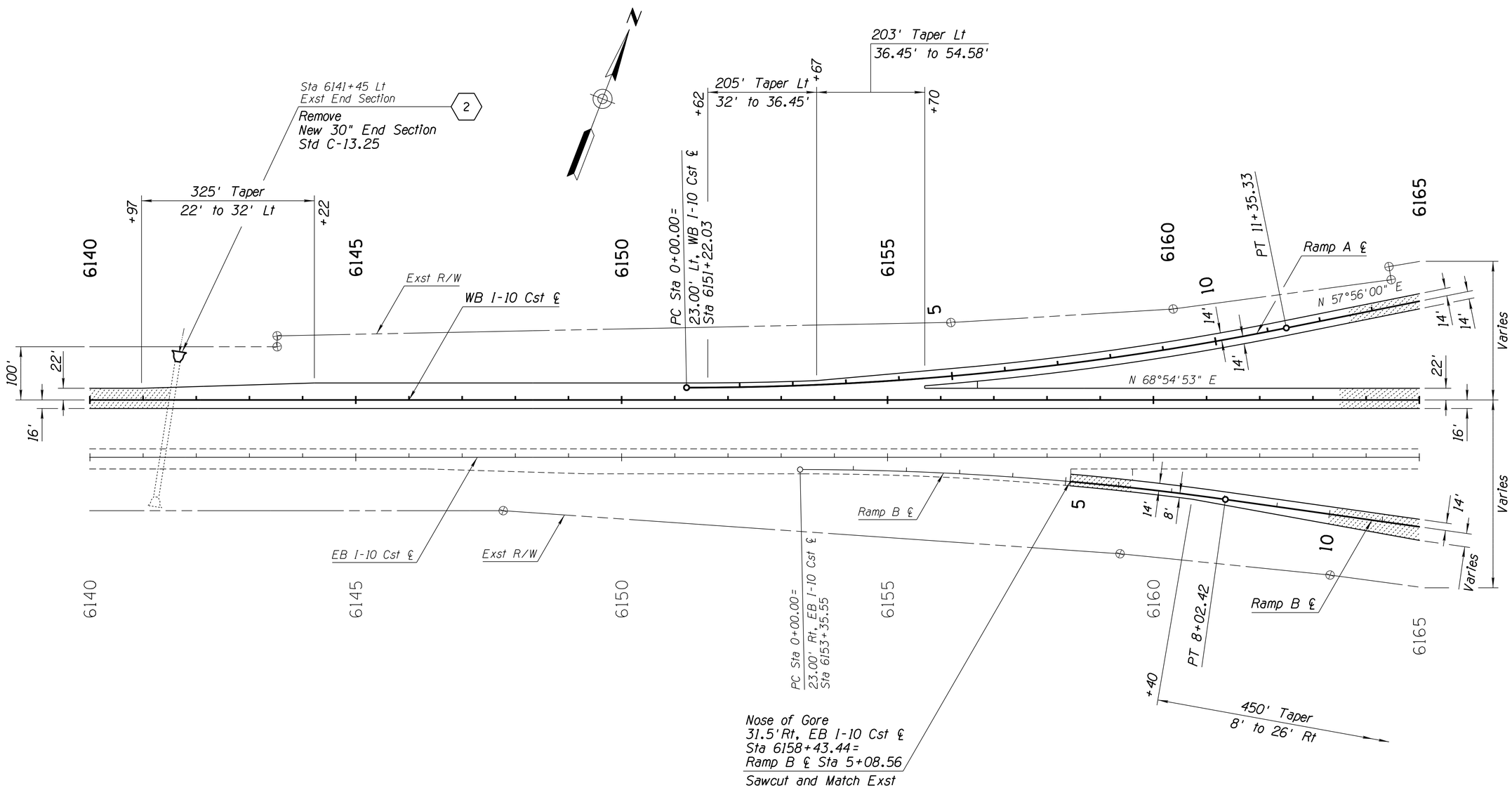
____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	17	40	

010 MA 112



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DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6140+00 to 6165+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 10 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

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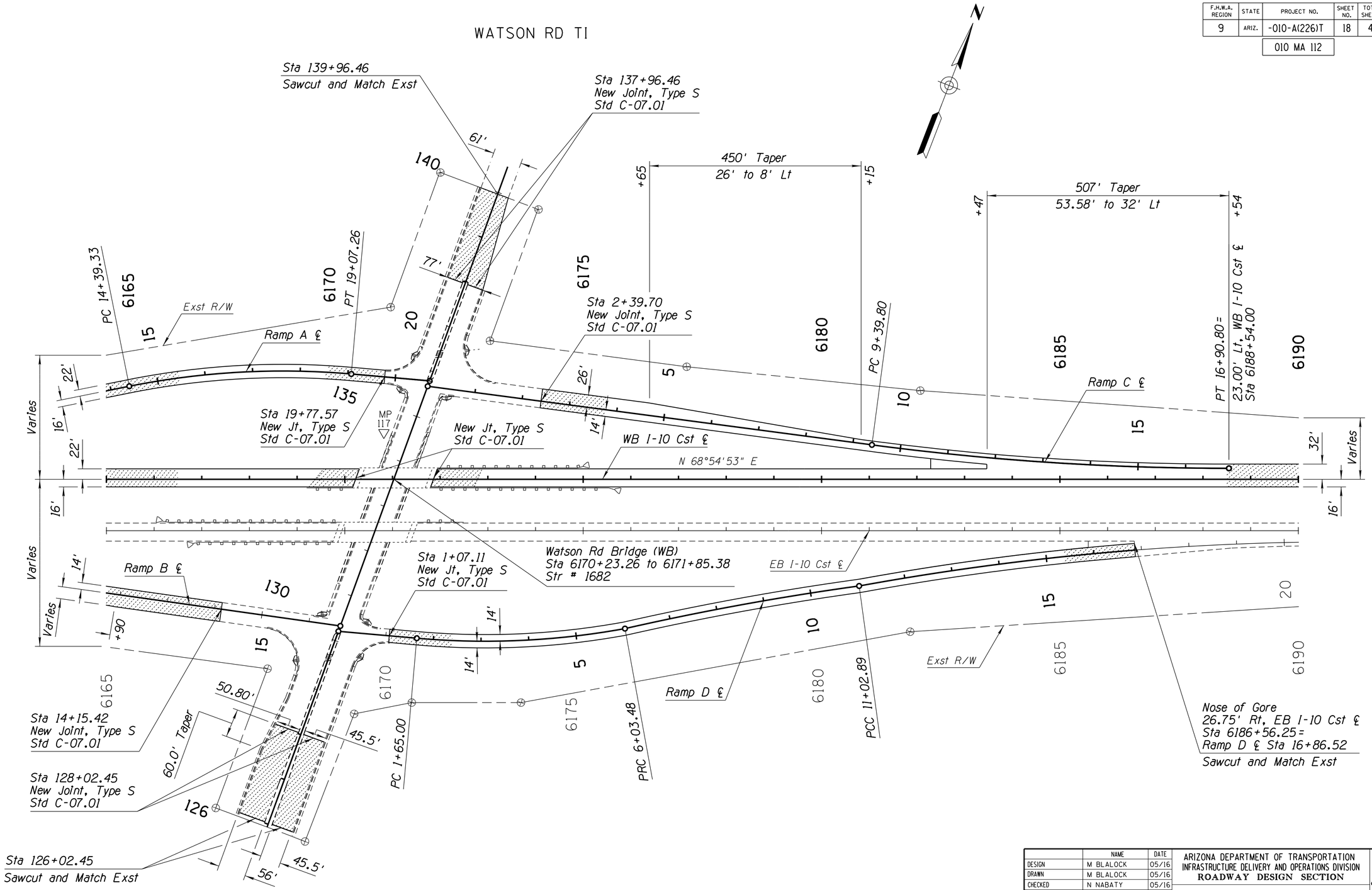
normal.tbl

V:/Roadway\users\a5972\ 10:23:41 AM 5/18/2016 V:\Roadway\Rdwy\h8787\PS&E\h8787pl0.dgn

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	18	40	

010 MA 112

WATSON RD TI



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DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6165+00 to 6190+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

TRACS NO. H8787 01C | NH-010-A(226)T

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 11 OF 17

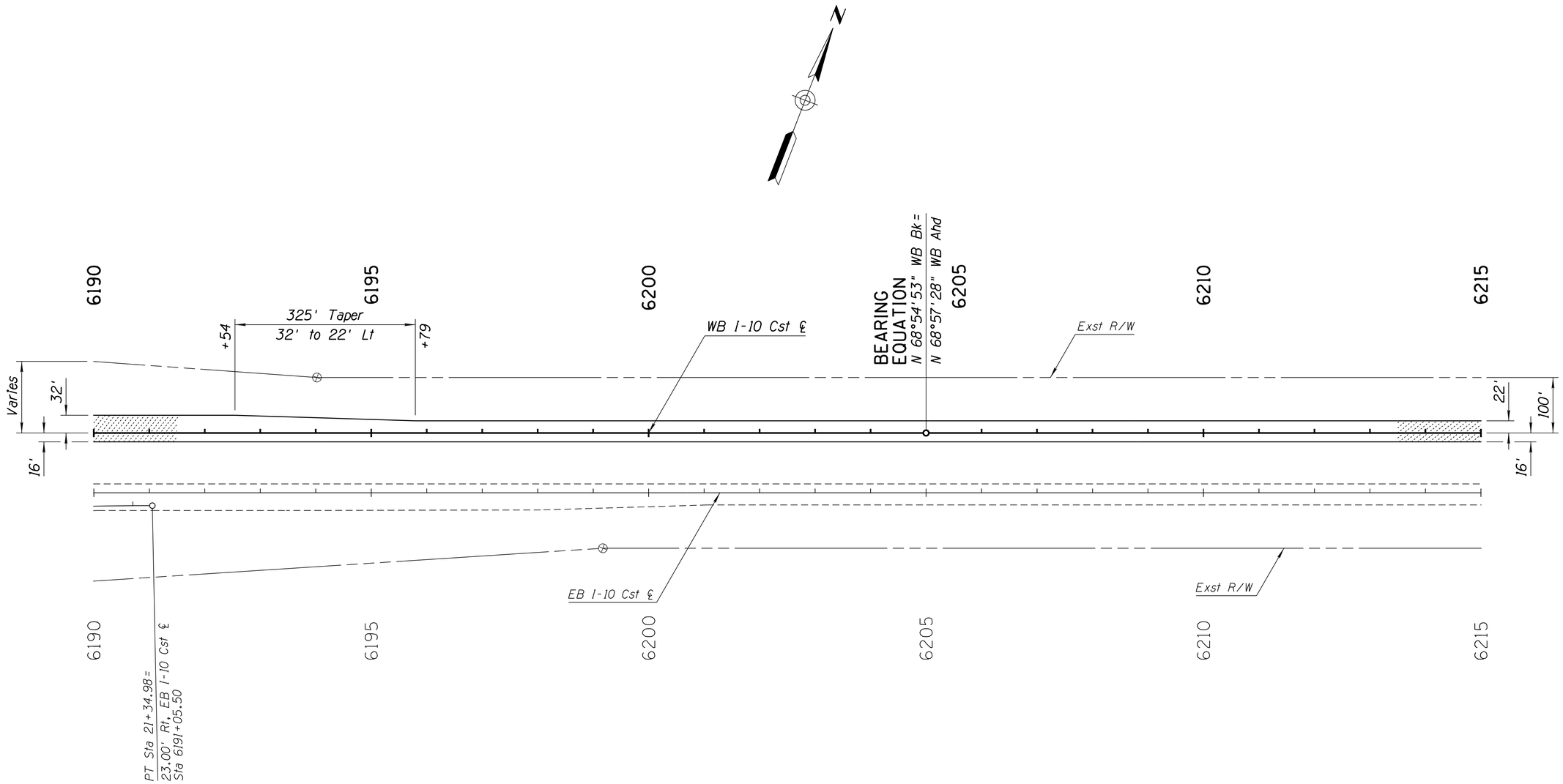
____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	19	40	

010 MA 112



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CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6190+00 to 6215+00

ROUTE I-10 | LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 12 OF 17

TRACS NO. H8787 01C | NH-010-A(226)T | ____ OF ____

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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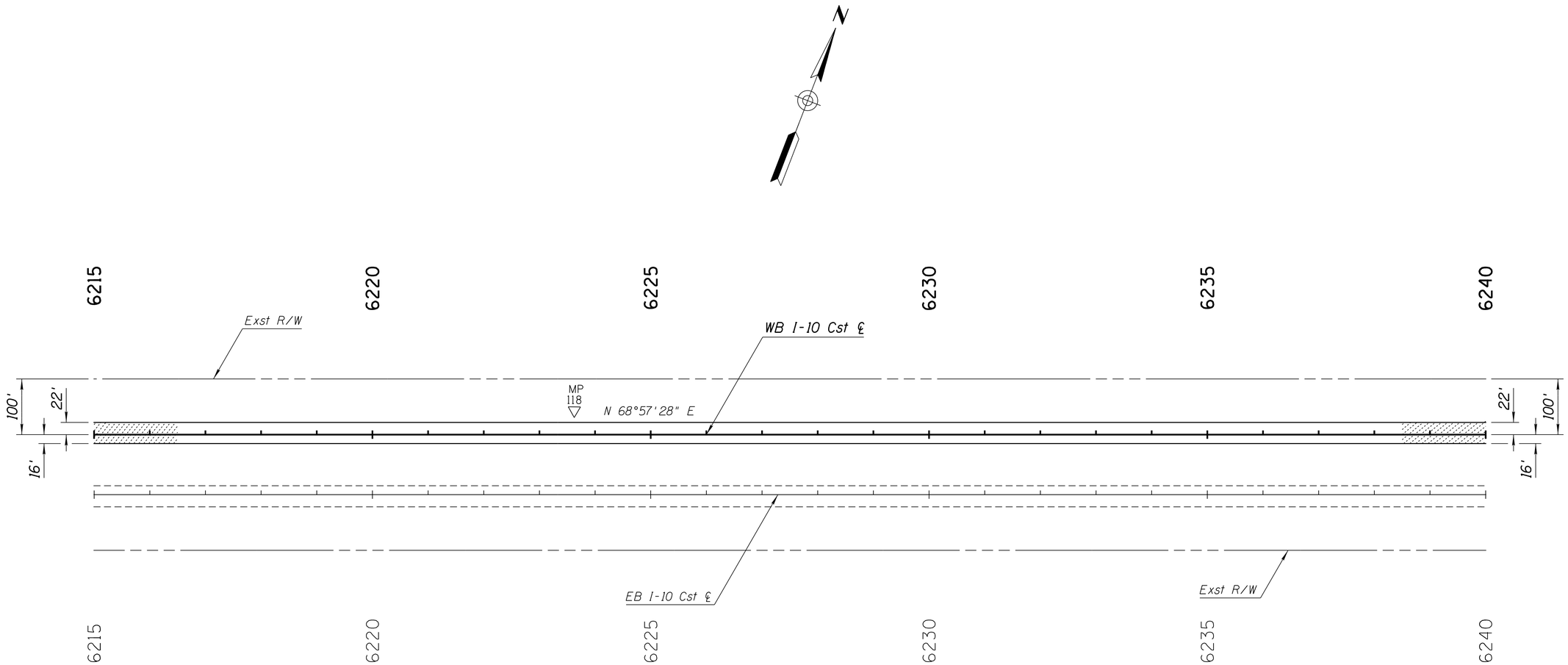
010 MA 112



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DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6215+00 to 6240+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 13 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

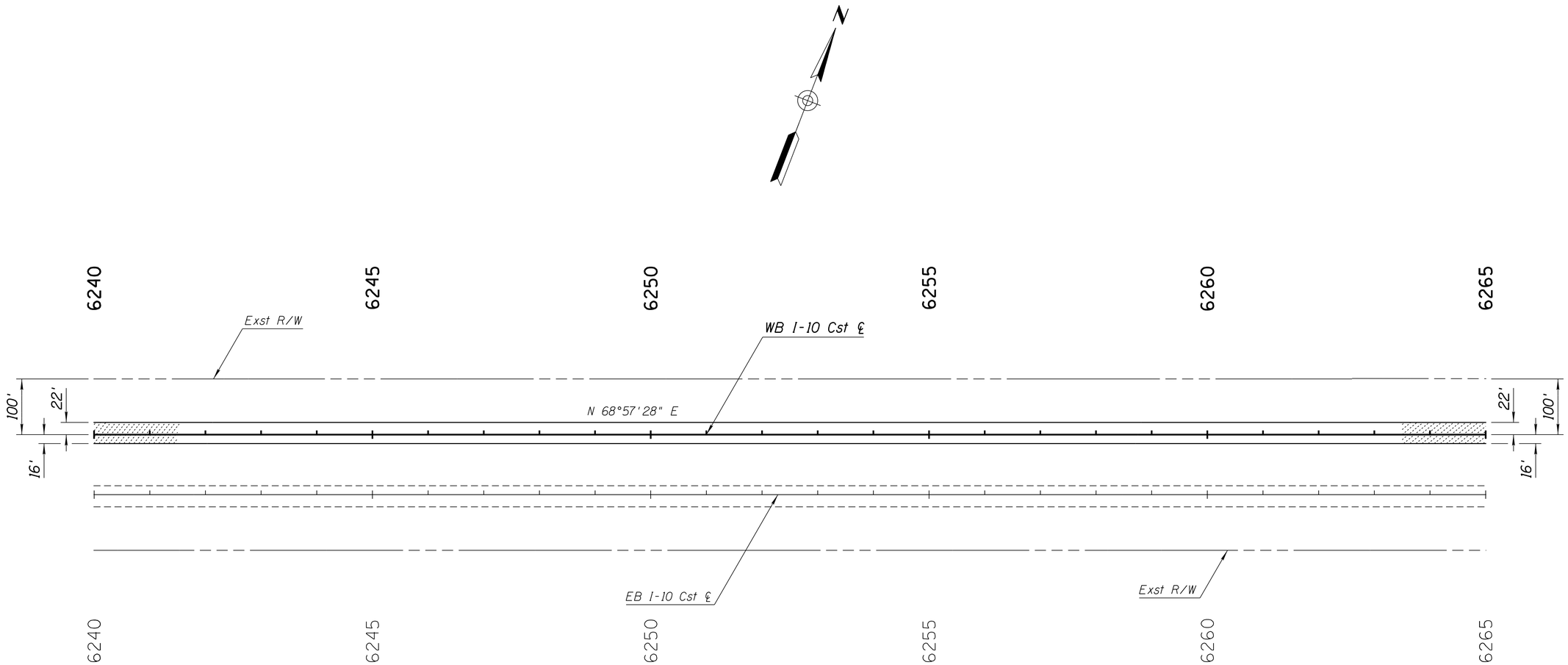
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	21	40	

010 MA 112



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DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6240+00 to 6265+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 14 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

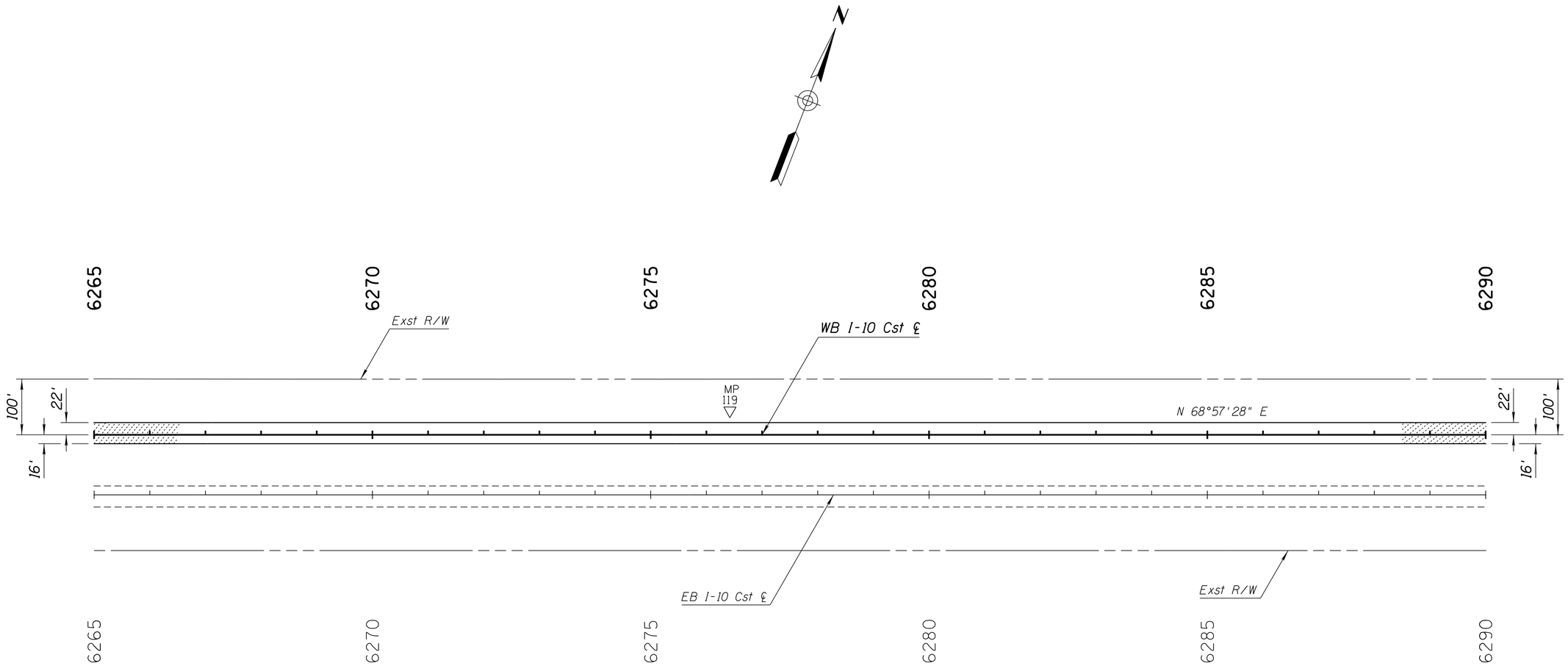
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	22	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6265+00 to 6290+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 15 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

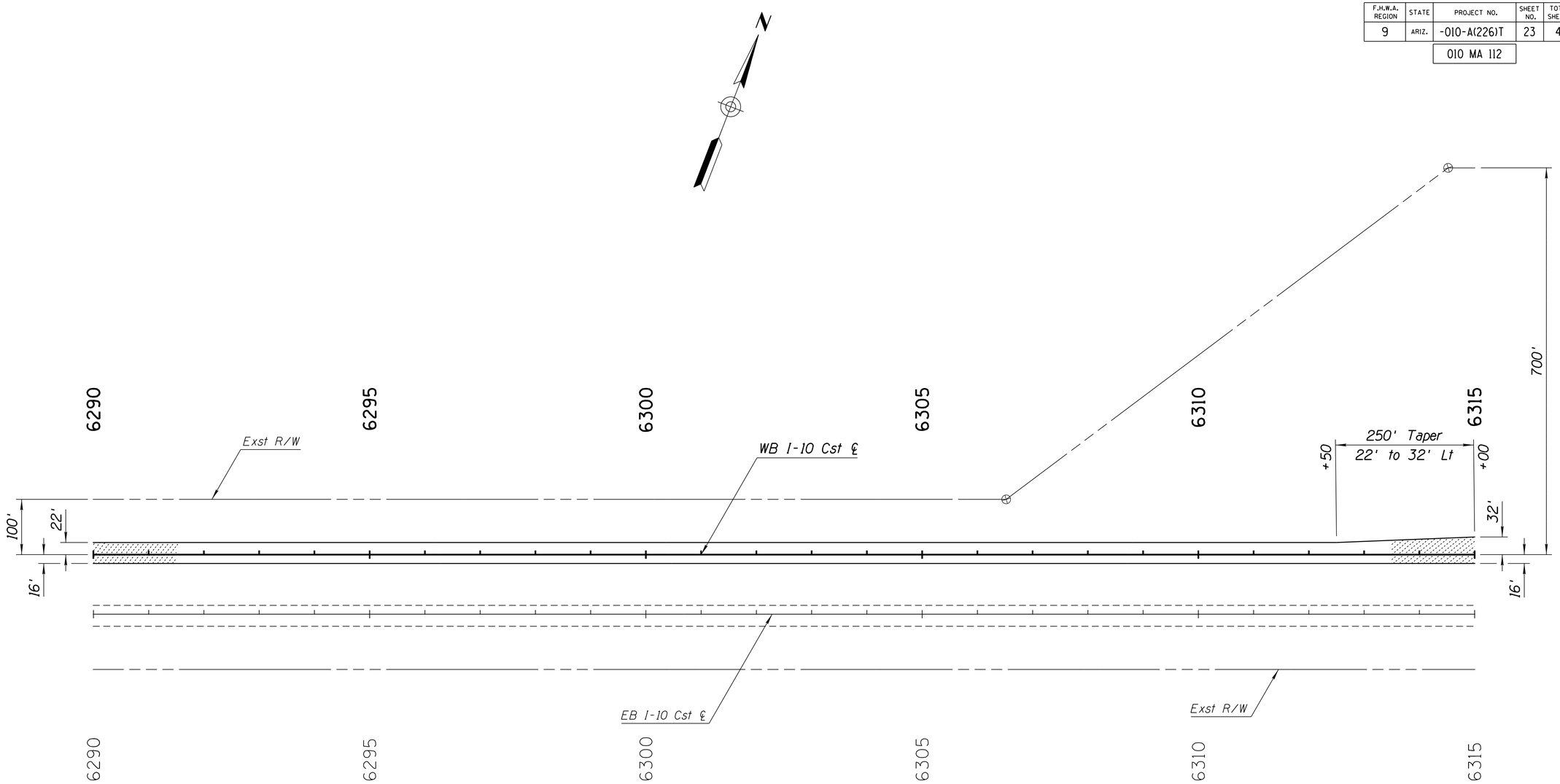
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	23	40	

010 MA 112



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DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6290+00 to 6315+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A.
EXPIRES 03/31/2018

SHEET 16 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

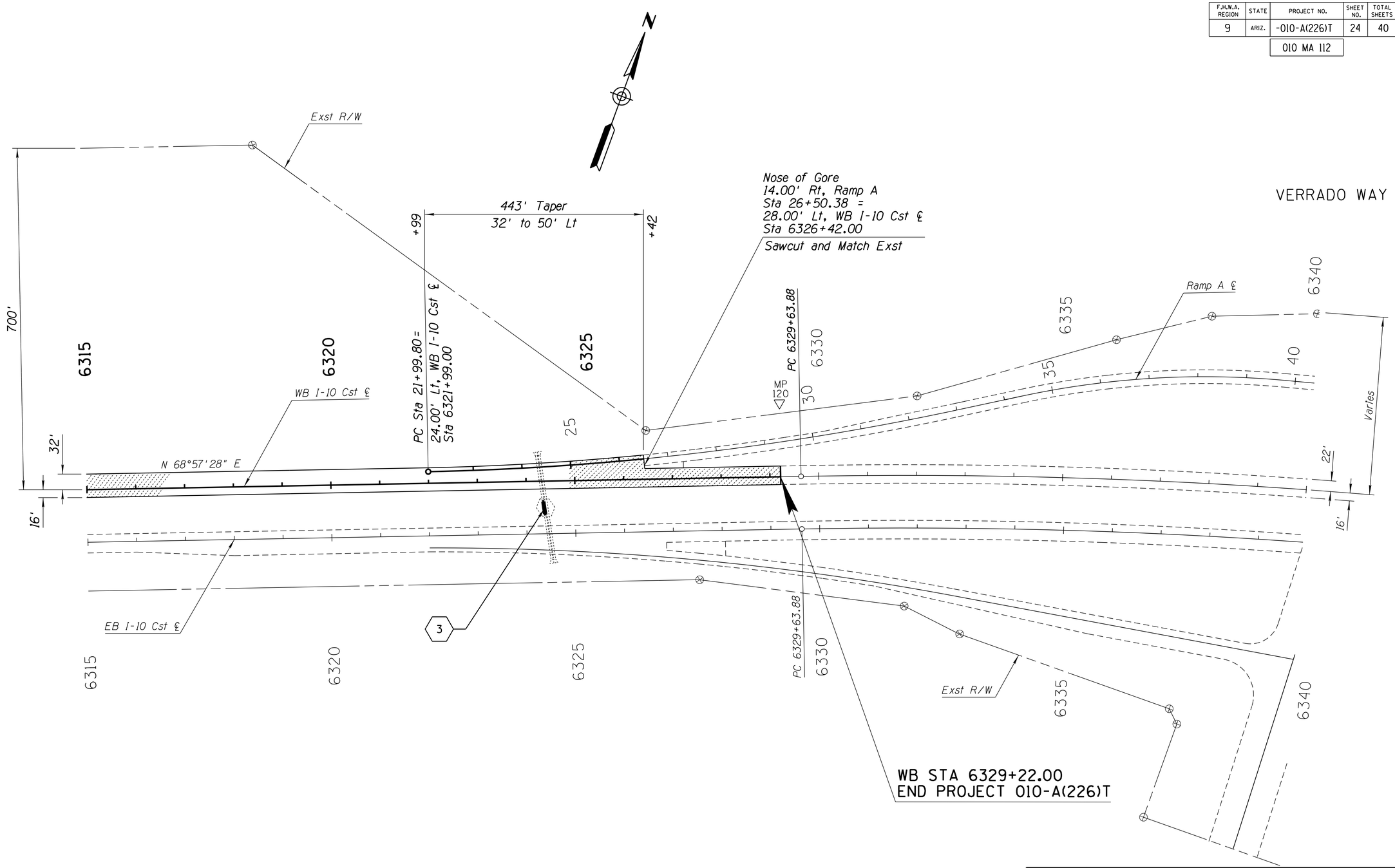
___ OF ___

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

normal.tbl

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	-010-A(226)T	24	40	

010 MA 112



	NAME	DATE
DESIGN	M BLALOCK	05/16
DRAWN	M BLALOCK	05/16
CHECKED	N NABATY	05/16
TEAM LEADER	N NABATY	

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

PLAN SHEET
Sta 6315+00 to 6340+00

ROUTE I-10

LOCATION SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 49234 NAZAR NABATY Date Signed 5/16/2016 ARIZONA, U.S.A. EXPIRES 03/31/2018

SHEET 17 OF 17

TRACS NO. H8787 01C

NH-010-A(226)T

___ OF ___

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

normal.tbl

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	25	40	

010 MA 112

TRAFFIC CONTROL NOTES:

1. Traffic control plans are to be prepared in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), 2009 edition, the Arizona supplement to the MUTCD, and ADOT Traffic Control Design Guidelines (TCDG), 2011.

2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer. If the Contractor elects to deviate from the traffic control plans, then the Contractor shall develop a traffic control plan in accordance with section 701 of the standard specifications 2008. No measurement or direct payment shall be made for developing the plan. All traffic control plans are subject to the approval of the Engineer before beginning construction.

3. All existing signs in conflict with the construction signs shall be removed, relocated, or covered in places, 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. Any sign damaged as a result of removal, relocation, or storage shall be replaced by the Contractor at no additional cost to the department.

4. The retro-reflective sheeting on all construction signs shall meet criteria established in section 1007 of the Special Provision.

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

6. All signs shall be mounted on embedded posts, ridgid, or spring stands, except as indicated otherwise. Sign mounting height for embedded posts is a minimum of 7' and a minimum of 1' for spring and ridgid stands as measured from the bottom of the sign to the nearest edge of the pavement.

7. 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. Two flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type A flashing warning lights shall be required on all nighttime construction signs except the "END ROAD WORK THANK YOU" sign.

8. Type II barricades and vertical panels shall be placed 40' o.c. on tapers and 80' o.c. on tangents on mainline and 20' o.c. on tapers and 40' o.c. on tangents on cross streets, except as otherwise noted in the plans.

9. A type C steady-burning yellow light shall be mounted on every type ii barricade, and vertical panels on tapers and along tangent sections.

10. Provide changeable message boards for the duration of the construction with message that is appropriate for each activity as approved by the Engineer.

11. No two adjacent ramps (in one direction) may be closed at a time, inclusive of all interchanges, unless approved by the Engineer. Ramp construction and closure schedules will be reviewed and approved by the Engineer.

12. Construction signs and changeable message boards, except advance warning signs, shall not be displayed to traffic more than 24 hours of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after the completion of construction activities.

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

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

15. 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.

16. Off-duty uniformed police officers and their vehicles shall be included as part of the Contractor's traffic control when the Engineer decides they should be present or as indicated in these traffic control plans.

17. Type III barricades, when used in conjunction with a roadway closure, shall have a 48" X 30" "ROAD CLOSED" or "RAMP CLOSED", as appropriate, per each application. Sign shall be black on white, barricades with sign shall be one of the barricades closing the roadway.

18. Where no closure is neccessary but where there is construction alongside a roadway under construction, the Contractor shall place 48" x 48" "ROAD WORK AHEAD" and "SHOULDER WORK AHEAD" signing as directed by the Engineer to alert the public to the construction activities.

19. The Contractor shall preserve all roadway signs, sign supports, object markers, and milepost markers. The Contractor shall replace any signs, sign supports and markers damaged as a result of the construction at the contractor's expense.

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

21. All references to "MUTCD" are to part 6, Manual on Uniform Traffic Control Devices 2009 edition. All references to "TCDG" are to the ADOT Traffic Control Design Guidelines 2011.

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.2	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1	DESCRIPTION OF REVISION		

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

TRAFFIC CONTROL NOTES

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

SHEET 1 OF 4

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	26	40	

010 MA 112

MAINTENANCE AND PROTECTION OF TRAFFIC

Phase	Construction Activity	Traffic Control	Comments
1	Traffic control setup. Install advance warning signings on I-10 EB, WB, crossroads and SR 85.	Install signs as shown in the traffic control plans.	Signs shall be mounted on embedded post(s) with type A warning light and flags except on the "END ROAD WORK THANK YOU" sign. Signs are to remain in place for the duration of the project. Provide Changeable Message board (CMB), 10 type II barricades surrounding each CMB 7 days before work begins on I-10 mainline as directed by the Engineer.
2	Mill and replace the EB and WB off-ramp and on-ramp at Watson Rd. TI. with AC and AR-ACFC. Shoulder build-up on ramps.	The contractor shall provide traffic control, per figure SA-10 ADOT TCDG 2010.	No two adjacent ramps (in one direction) shall be closed at the same time. Provide Changeable Message Board (CMB) for advance notification on I-10 mainline exit ramp closure as directed by the Engineer. One exit and entrance ramp per interchange shall be open at all times. The crossroad shall remain open. The Contractor shall not close any ramps without the approval of the Engineer.
3	Mill and replace Watson Road with AC and Fog Coat.	Traffic control shall be according to TA-10 of the MUTCD (2009 edition).	Provide flagging services.
4	WB Miller Rd Bridge Repair.	Traffic control shall be according to TA-33 of the MUTCD (2009 edition) or Figure SA-5(R) and SA-5(L) of the ADOT TCDG 2010. The speed limit through the construction area should be reduced to 55 MPH during working hours.	Provide Changeable Message Board (CMB) for advance notification on I-10 mainline for lane closure as directed by the Engineer. Use type II barricades with 40 feet and 80 feet spacing on tapers and tangents respectively. Vertical panels can be used in lieu of type II barricades on tangents only. Provide off duty DPS officer with vehicle in advance of lane closures, as directed by the Engineer.
5	Mill and replace the right and left travel lanes with AC and AR-ACFC. Install loop detectors WB. Shoulder work and shoulder build-up.	Traffic control shall be according to TA-33 of the MUTCD (2009 edition) or Figure SA-5(R) and SA-5(L) of the ADOT TCDG 2010. The speed limit through the construction area should be reduced to 55 MPH during working hours. Traffic control for ramp closures shall be as shown in figure SA-10 and SA-5(R) of ADOT TCDG 2010, or as directed by the Engineer.	Use type II barricades with 40 feet and 80 feet spacing on tapers and tangents respectively. Vertical panels can be used in lieu of type II barricades on tangents only. Provide off duty DPS officer with vehicle in advance of lane closures, as directed by the Engineer.
6	Install pavement markings.	Traffic control shall be according to TA-17 of the MUTCD (2009 edition). Provide a truck mounted attenuator.	Place two warning signs with message "WET PAINT" and "KEEP OFF STRIPE", 500 feet from the beginning of striping. Provide off duty DPS officer with vehicle in advance of lane closures, as directed by the Engineer.

Note:

1. The above order of activities does not constitute a sequence of construction.
2. The contractor shall perform the work in the most expeditious manner consistent with the plans, special provisions and with the approval of the Engineer.
3. Traffic control for rehabilitation of permenant signs shall be combined with all construction activity for pavement preservation wherever applicable.

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

MAINTENANCE OF TRAFFIC

LOCATION: I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 2 OF 4

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
1			
2			

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	27	40	

010 MA 112

APPROXIMATE TRAFFIC CONTROL QUANTITIES

Bid Item No.	Element of Work	Unit	Activity 1	Activity 2	Activity 3	Activity 4	Activity 5	Activity 6	Total Qtys.
	ESTIMATED DURATION	Days	113*	4	2	2	35	5	
7015042	Temporary Painted Marking (Stripe)	L.Ft.	0	0	0	0	127,200	0	127,200
7015052	Obliterate Pavment Marking (Stripe)	L.Ft.	0	4,500	0	0	0	0	4,500
7015091	Specialty Sign	SQ. FT.	0	0	0	0	0	0	0
7016030	Barricade (type II, vertical panel, tubular marker)	EACH-DAY	3,600	400	80	140	8,785	1,300	14,305
7016031	Barricade (type III, high level flag trees)	EACH-DAY	0	12	6	0	105	0	123
7016032	Portable Sign Stands (rigid)	EACH-DAY	0	96	0	0	0	30	126
7016033	Portable Sign Stands (spring type)	EACH-DAY	0	12	16	34	1,505	100	1,667
7016035	Warning Lights (type A)	EACH-DAY	1,017	120	16	34	8,75	130	2,192
7016037	Warning Lights (type C)	EACH-DAY	3,600	400	80	140	8,785	1,300	14,305
7016038	Traffic Cone (28 Inches)	EACH-DAY	0	0	0	20	350	0	370
7016039	Embedded Sign Post	EACH-DAY	1,130	0	0	0	0	0	1,130
7016050	Truck Mounted Attenuator	EACH-DAY	2	4	4	2	50	5	67
7016051	Temporary Sign Less than 10 S.F.	EACH-DAY	0	120	0	0	875	0	995
7016052	Temporary Sign 10 S.F. or More	EACH-DAY	1,130	0	16	34	630	130	1,940
7016061	Flashing Arrow Panel	EACH-DAY	0	0	0	2	35	5	42
7016067	Changeable Message Board (Contractor Furnished)	EACH-DAY	360	12	4	2	175	5	558
7016075	Flagging Services (Civilian)	HOURS	0	0	10	10	175	25	220
7016078	Flagging Services (Local Enforcement Officer)	HOURS	0	20	10	10	175	25	240
7016080	Flagging Services (DPS)	HOURS	0	20	10	10	175	25	240

NOTES:

1. Changeable message boards shall be displayed one week prior to the start of the project.
2. * = Calendar days

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1	DESCRIPTION OF REVISION	MADE BY	DATE
NO.2	DESCRIPTION OF REVISION	MADE BY	DATE

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

TRAFFIC CONTROL QUANTITIES

LOCATION: I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 05/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 3 OF 4

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

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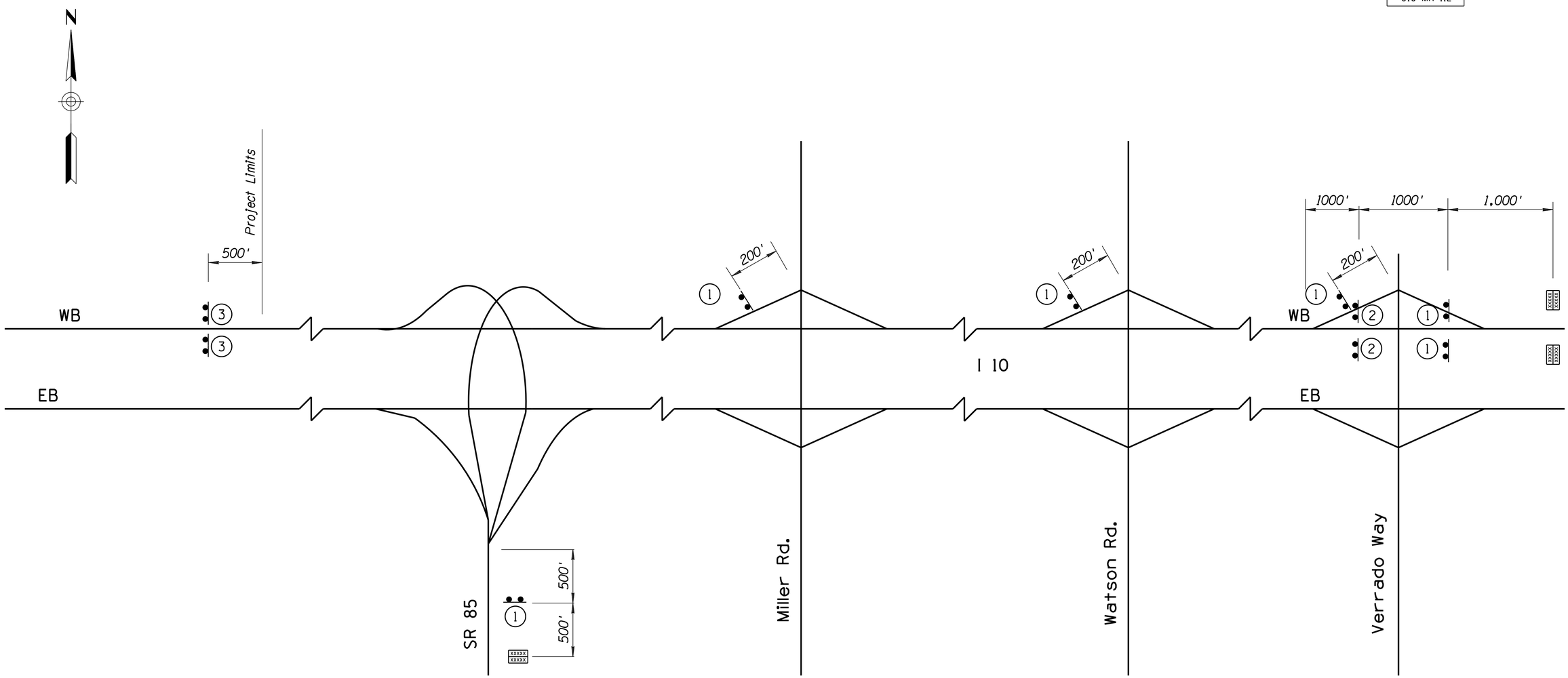
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	28	40	

010 MA 112



SIGN LEGEND:

1

W20-1aAZ
48" X 48"

2

G20-1
72" X 36"

3

G20-2a
48" X 36"

SYMBOL LEGEND:

	Sign On Embedded Post(s)
XXXXX XXXXX	Changeable Messege Board

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

ADVANCE WARNING SIGNING

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 4 OF 4

TRACS NO. H8787 01 C

NH-010-A(226)T

____ OF ____

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1			
NO.2			

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	29	40	

010 MA 112

PAVEMENT MARKING NOTES:

1. All markings shall be in compliance with the latest editions of the ADOT standard drawings and specifications, ADOT signing and marking standard drawings, the Manual on Uniform Traffic Control Devices (MUTCD), 2009 edition, and the Arizona supplement to the MUTCD, unless otherwise noted in special provision or these plans.

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

3. The Contractor shall be responsible for the layout and installation of pavement markings on the final surface course, following points that have been set no more than 50 feet apart along the alignment of the striping.

4. The dimensions shown to pavement striping are to the center of the striping or, in the case of double striping, to the center of the double striping.

5. Final thermoplastic pavement markings and preformed patterned white stripe shall not be placed on the new AR-ACFC surface less than 30 days following placement of the AR-ACFC. All pre-final lane lines and edge lines shall be 4" reflectorized paint. All gore lines and turn lane lines shall be 8" reflectorized paint. Stop bars shall be at least 12" wide reflectorized paint.

6. All freeway edge lines, auxiliary lane lines and freeway to freeway ramp lines shall be 90 mil (0.090 inch) thick ribbon extruded thermoplastic in accordance with section 704 of the Special Provision. Freeway lane lines and gore lines shall be preformed tape in accordance with section 705 of the Special Provision except as specified in the pavement marking plans.

7. All final stop bars, crosswalks, arrows, legends and transverse lines shall be white 90 mil (0.090 inch) thick alkyd extruded thermoplastic in accordance with section 704 of the ADOT standard specifications, unless otherwise noted.

8. All raised pavement markers shall have an abrasion resistant coating on the face of the prismatic reflectors and shall conform to the details of STD. DWG. M-19. They shall be installed with a bituminous adhesive which is on the ADOT approved products list.

9. All raised pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow. Type "C" raised pavement markers shall be installed so that the clear face of each marker is facing approaching traffic and is perpendicular to the direction of approaching traffic flow. Type "E" raised pavement markers shall be installed so that the yellow reflecting face fo each marker is facing approaching traffic and perpendicular to the direction of traffic flow.

10. Where raised pavement markers are placed between double yellow striping, they shall be centered in the 6 inch gap between the lines. Where raised, the nearest edge of each marker shall be offset 2 inches from the striping on the side of the through lane.

11. The contractor shall clean the roadway surface to the satisfaction of the Engineer by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry and the air and pavement temperatures shall be a minimum of 55°f and rising for the placement of thermoplastic striping.

12. When stripe obliteration is necessary, it shall be accomplished by approved methods. Painting over striping, removal of pavement and overlaying pavement do not constitute stripe obliteration.

13. The pavement marking drawings are schematic only and not to scale. The Contractor shall follow all dimensions, details and standards when installing pavement markings.

14. The pavement marking plans may be modified as directed by the Engineer.

SIGNING NOTES:

1. Type 3 (1) object markers shall be used to delineate culvert headwalls that are within the 30-feet clear zone and are not currently marked or protected by guardrail. Object markers shall be placed in accordance with STD. DWG. M-34 and M-24.

2. The Contractor shall preserve all roadway sign panels, sign posts, foundations, object markers, mile posts and delineators within the project limits except for the delineators within the roadway construction area and the signing identified on these plans to be removed. For any of these items damaged as a result of construction but not identified to be removed, the Contractor shall repair or replace these items, as directed by the Engineer, at the Contractor's expense.

APPROXIMATE PAVEMENT MARKING QUANTITIES			TOTAL QUANTITIES
ITEM NO.	ITEM	UNIT	
7040005	Pavement Marking (White Thermoplastic) (90 Mil) (Alkyd extruded)	L.F.	90,950
7040006	Pavement Marking (Yellow Thermoplastic) (90 Mil) (Alkyd extruded)	L.F.	72,700
7040072	Pavement Marking (Transverse) (Thermoplastic) (Alkyd) (0.090")	L.F.	1,200
7040073	Pavement Legend (Extruded Thermoplastic) (Alkyd) (0.090")	EACH	7
7040074	Pavement Symbol (Extruded Thermoplastic) (Alkyd) (0.090")	EACH	24
7050047	Pavement Marking, Preformed, Patterned, White Stripe	L.F.	37,500
7060013	Pavement Marker Raised, Type C	EACH	2,040
7060015	Pavement Marker Raised, Type D	EACH	38
7060017	Pavement Marker Raised, Type E	EACH	2,060
7060018	Pavement Marker Raised, Type G	EACH	44
7080001	Permanent Pavement Marking (Painted) (White)	L.F.	78,800
7080011	Permanent Pavement Marking (Painted) (Yellow)	L.F.	48,400
7080111	Permanent Pavement Marking (Painted Symbol)) (Bike)	EACH	1
7080121	Permanent Pavement Marking (Painted symbol) (Arrow)	EACH	24
7080221	Permanent Pavement Marking (Painted Legend) (Only)	EACH	7

Pavement marking quantities reflect 4" equivalents.

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING AND SIGNING NOTES

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE ARIZONA, U.S.A. Date Signed 5/19/16
EXPIRES 03/31/2017

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

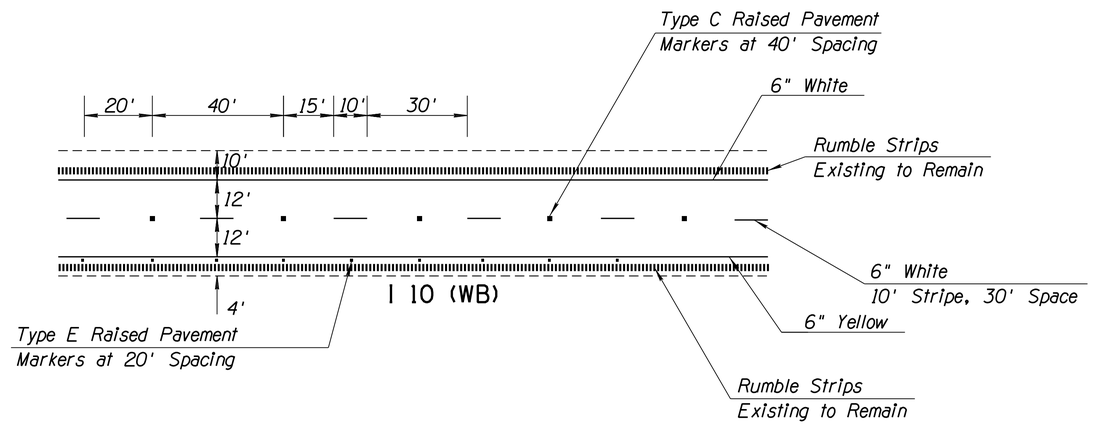
SHEET 1 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ____ OF ____

NO.	DESCRIPTION OF REVISION	DATE	MADE BY
NO. 1	DESCRIPTION OF REVISION	DATE	MADE BY
NO. 2	DESCRIPTION OF REVISION	DATE	MADE BY

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	30	40	

010 MA 112



DETAIL A

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING
DETAIL A

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 05/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

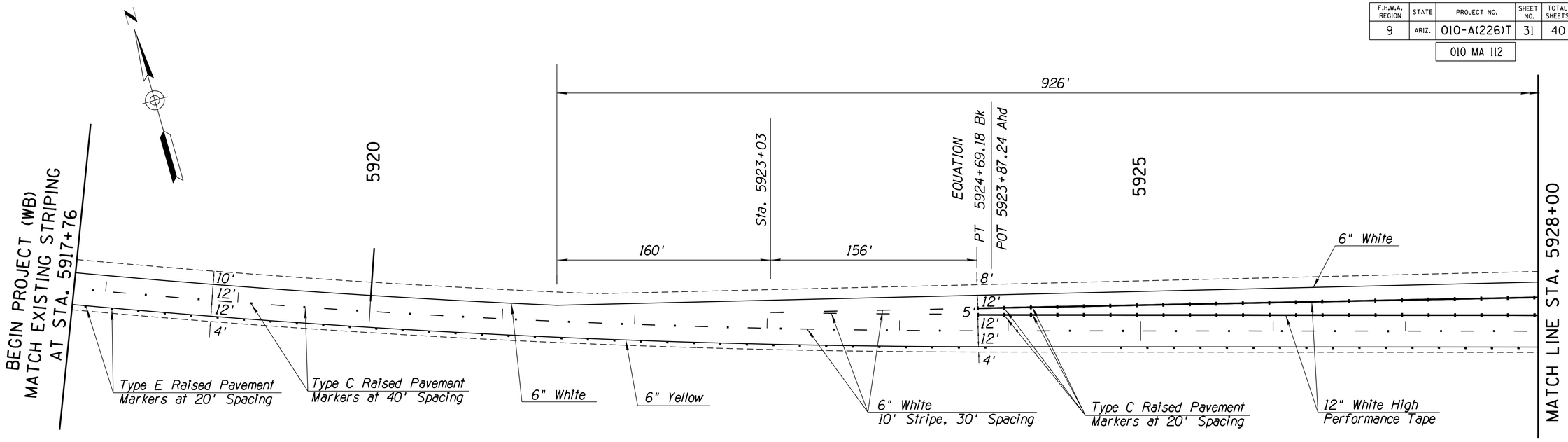
SHEET 2 OF 10

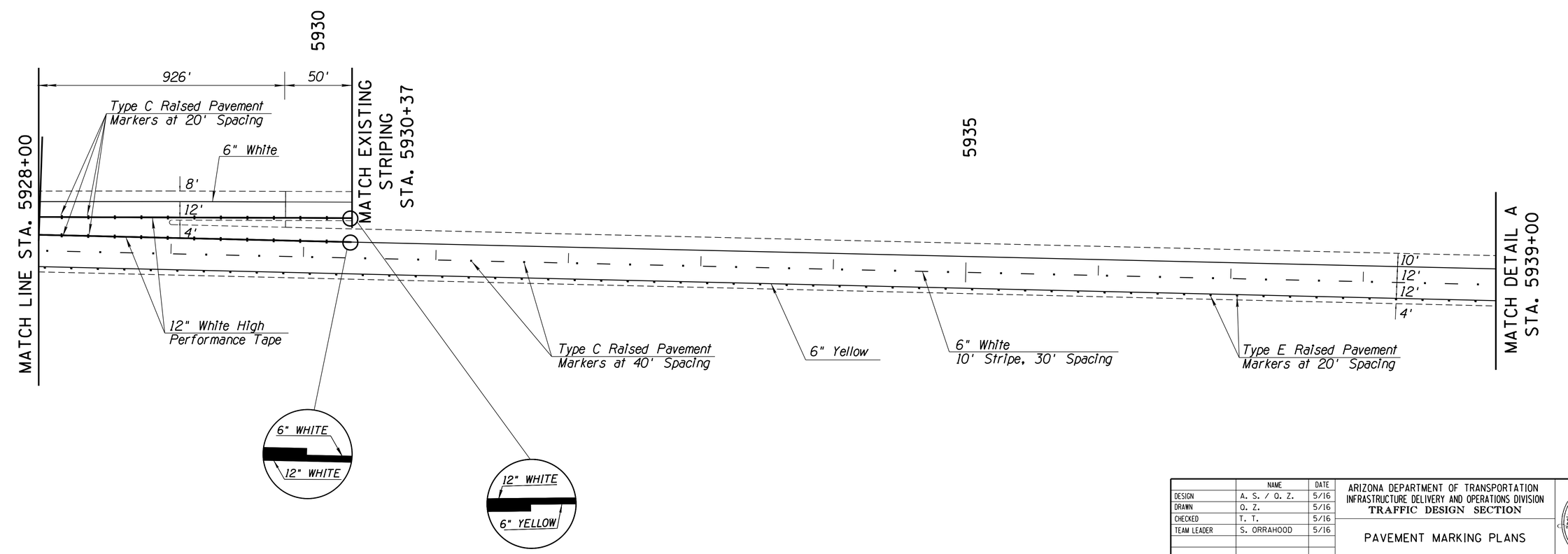
TRACS NO. H8787 01 C | NH-010-A(226)T | ____ OF ____

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1			
NO.2			

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	31	40	

010 MA 112





	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil)
CERTIFICATE NO. 41976
THOMAS L. TORTICE
Date Signed 5/19/16
ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 3 OF 10

TRACS NO. H8787 01 C

NH-010-A(226)T

___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1			
NO.2			

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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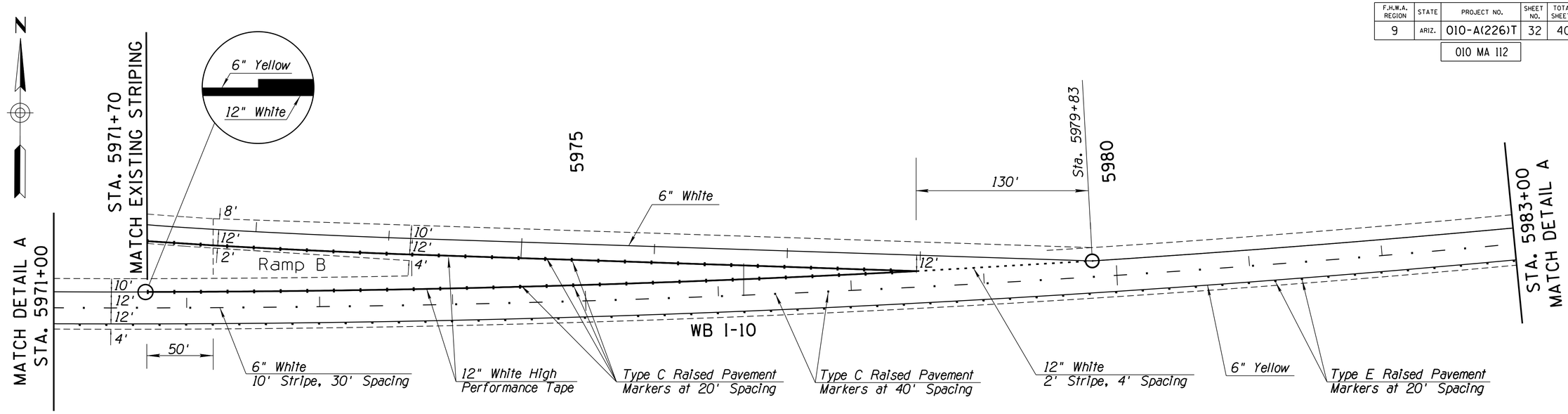
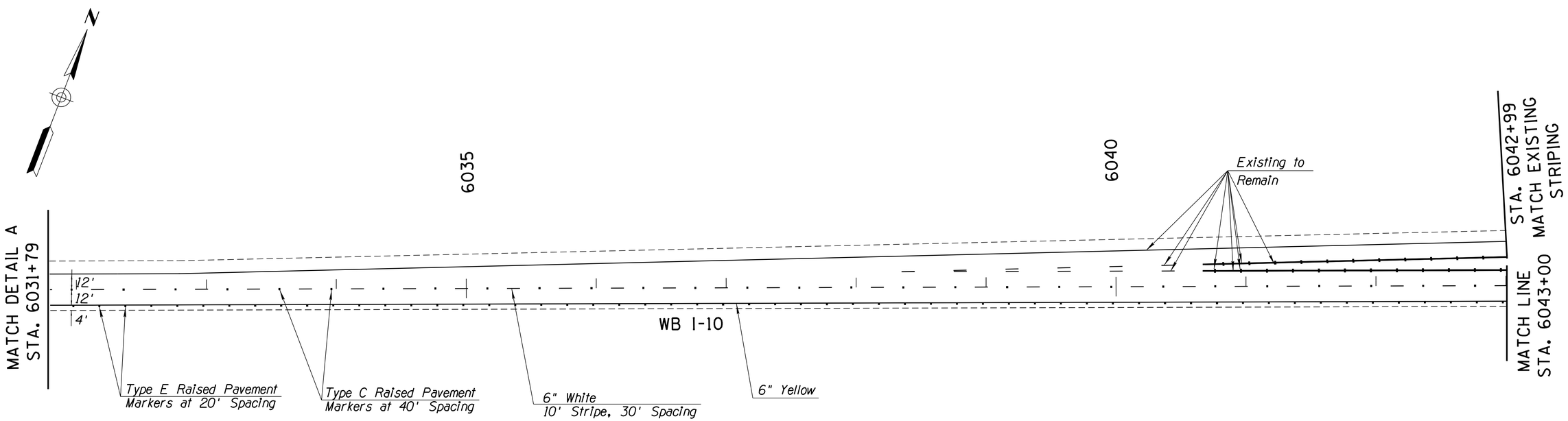
		010 MA 112			





NO.	DESCRIPTION OF REVISION	MADE BY	DATE	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil)
CERTIFICATE NO. 41976
THOMAS L. TORTICE
Date Signed 05/19/16
ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 4 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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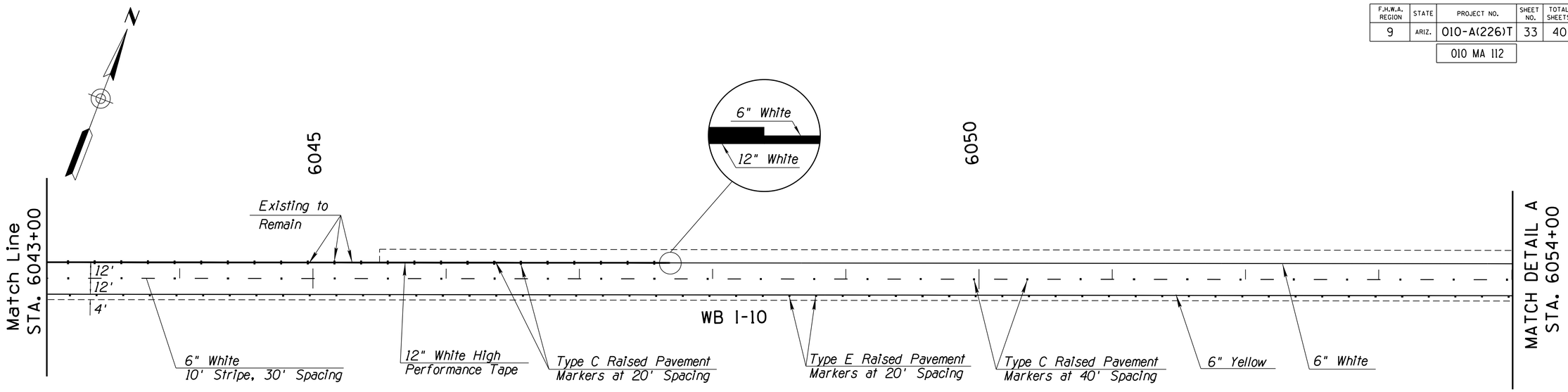
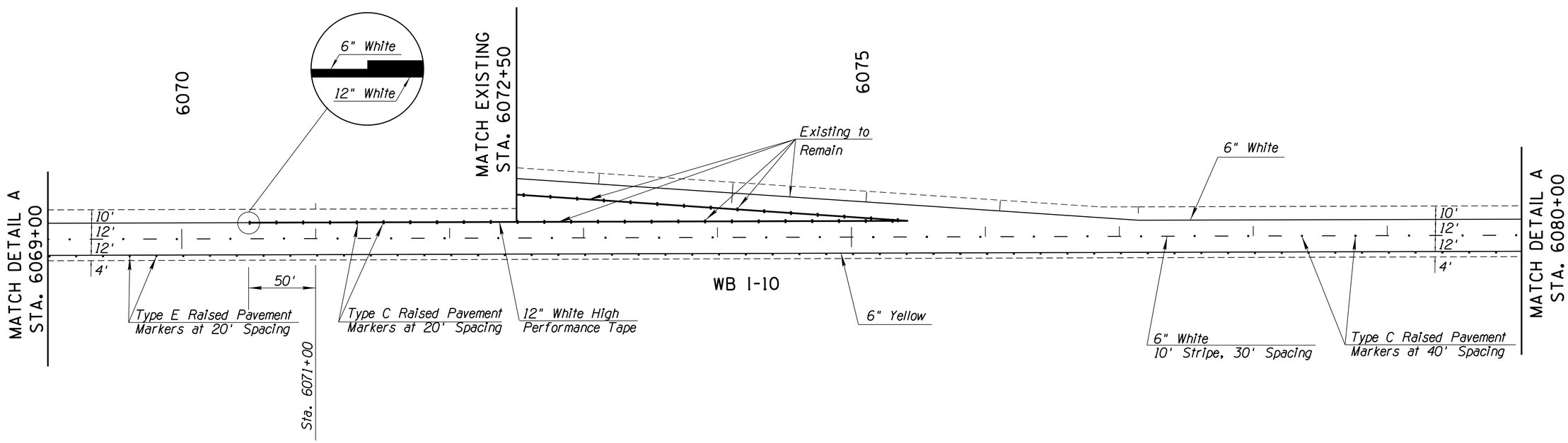
010 MA 112





	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 05/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 5 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE	NO.2	DESCRIPTION OF REVISION	MADE BY	DATE

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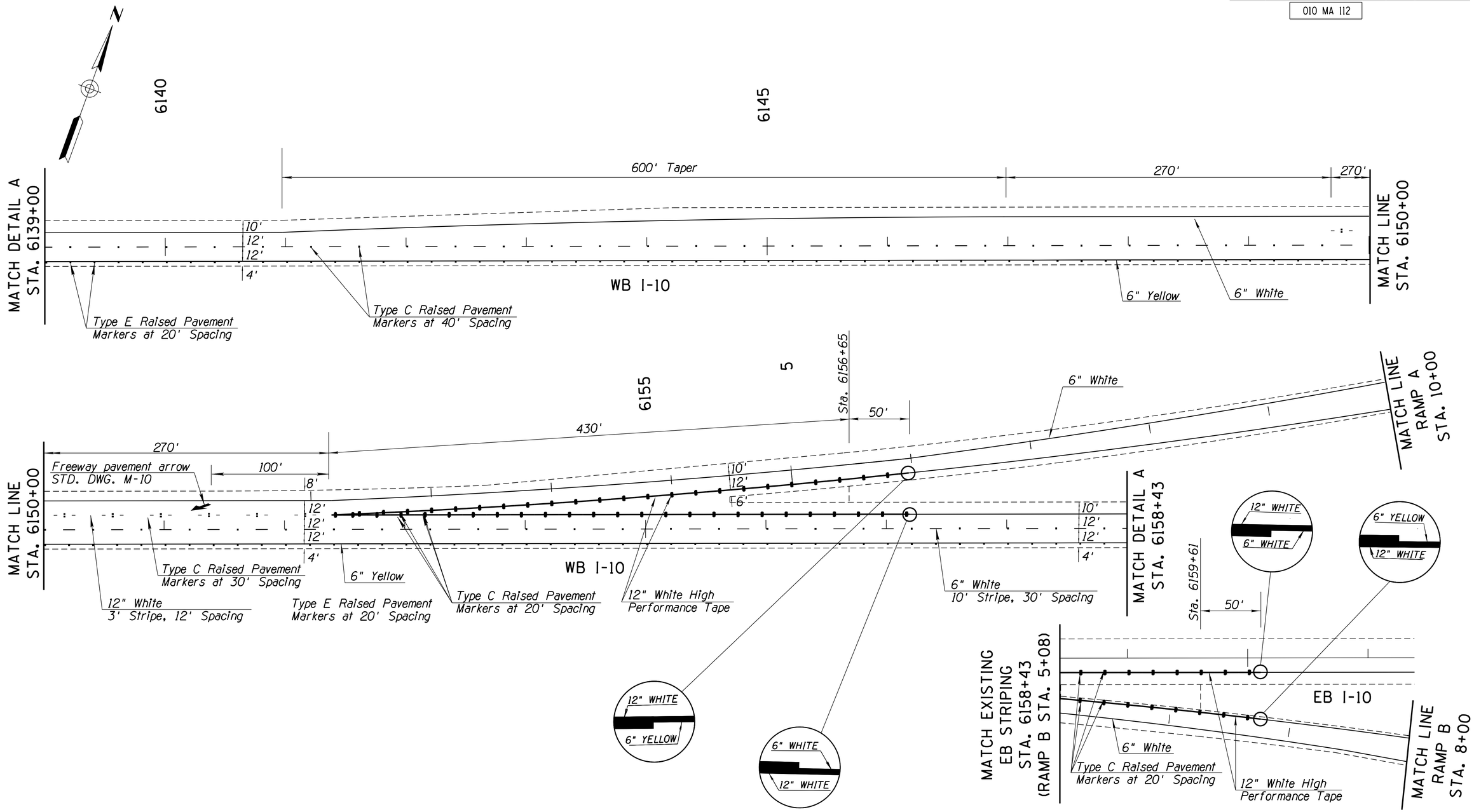
010 MA 112



	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 6 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.2	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1	DESCRIPTION OF REVISION	MADE BY	DATE

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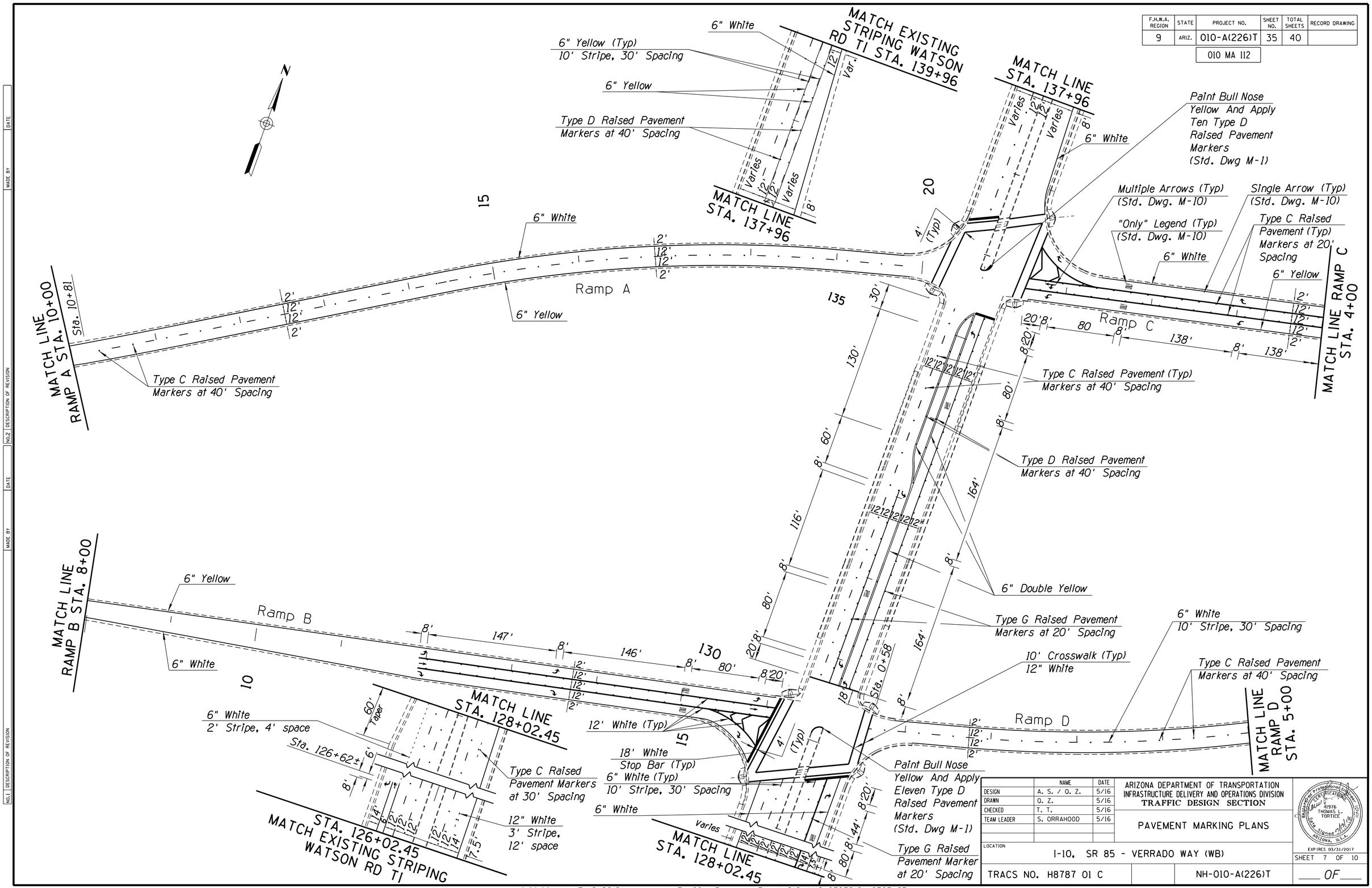
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	35	40	

010 MA 112



	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION: I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A. EXPIRES 03/31/2017

SHEET 7 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1			
NO.2			

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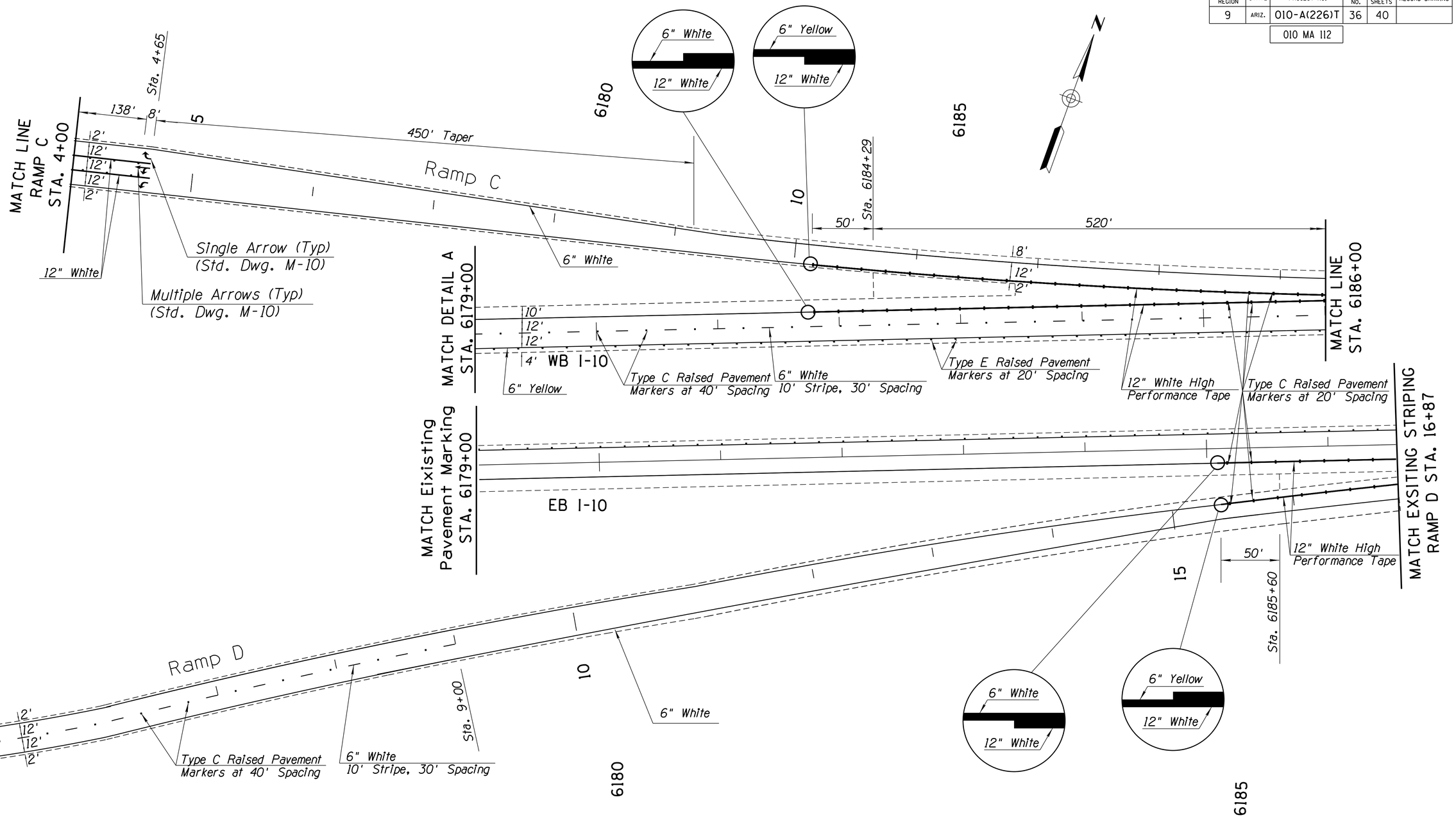
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	36	40	

010 MA 112



	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/19/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

SHEET 8 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE
NO.1			
NO.2			

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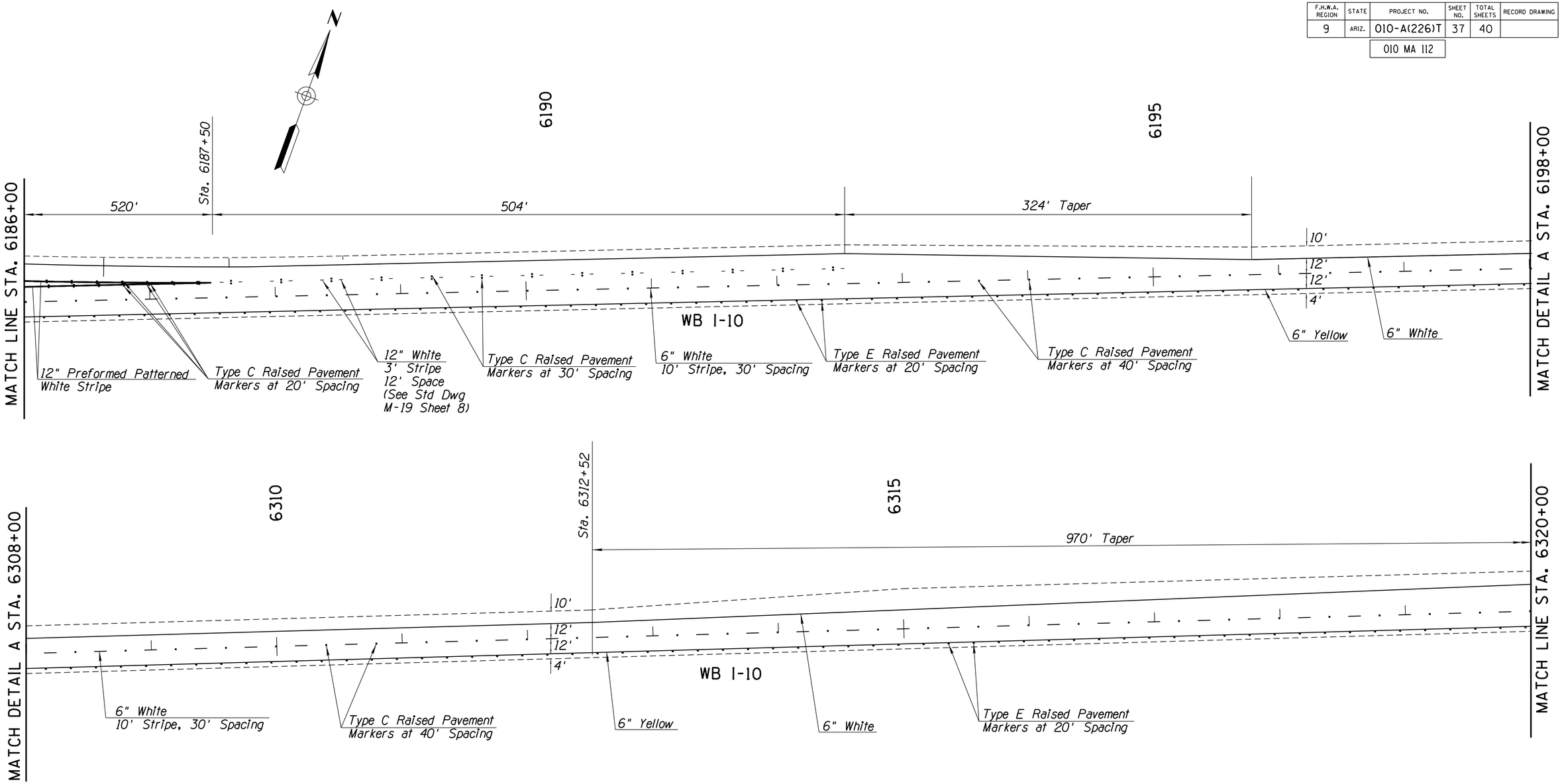
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	37	40	

010 MA 112



NO.	DESCRIPTION OF REVISION	MADE BY	DATE

NO.2	DESCRIPTION OF REVISION	MADE BY	DATE

	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

Registered Professional Engineer (Civil) CERTIFICATE NO. 41976 THOMAS L. TORTICE Date Signed 5/31/16 ARIZONA, U.S.A.
EXPIRES 03/31/2017

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

SHEET 9 OF 10

TRACS NO. H8787 01 C | NH-010-A(226)T | ___ OF ___

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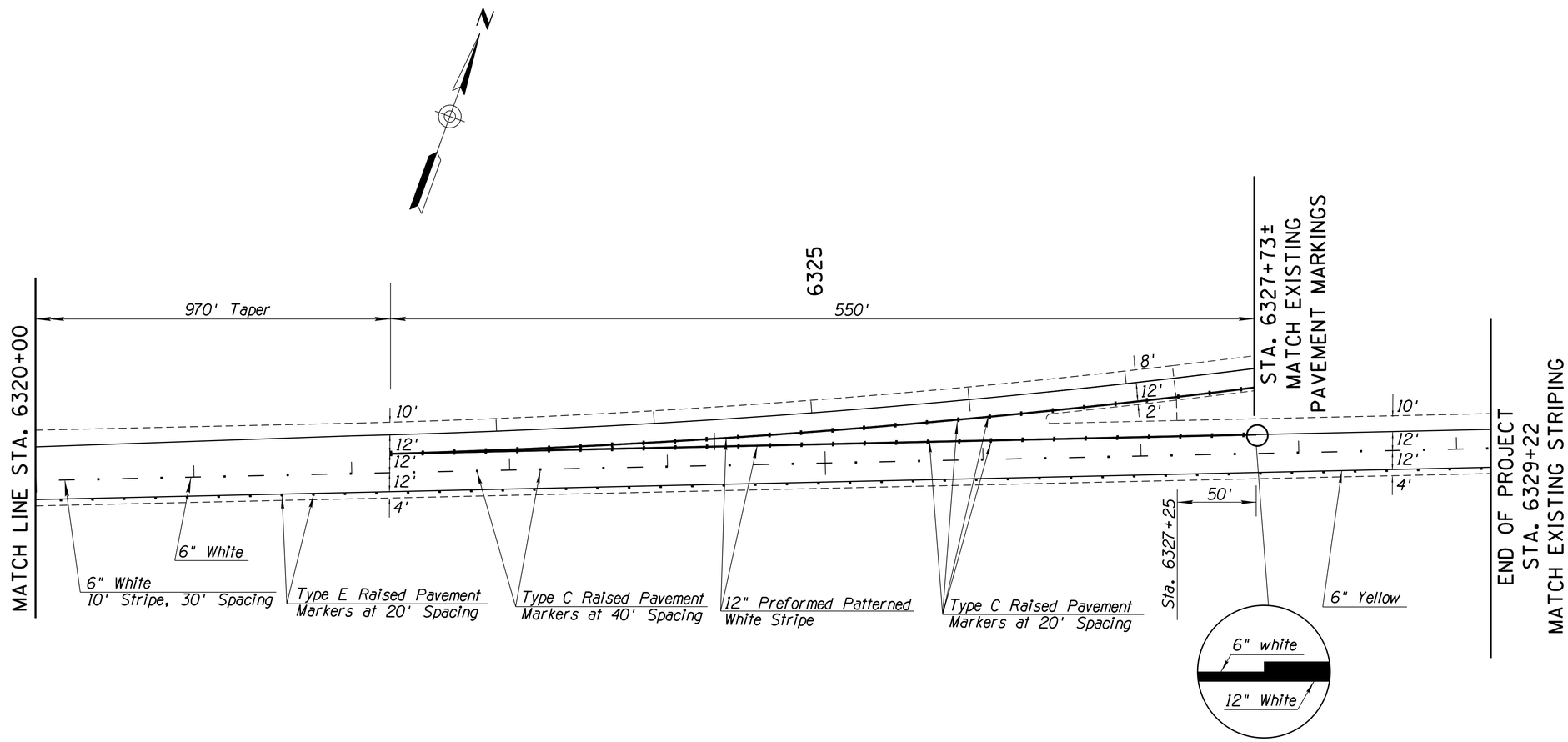
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	38	40	

010 MA 112



	NAME	DATE
DESIGN	A. S. / O. Z.	5/16
DRAWN	O. Z.	5/16
CHECKED	T. T.	5/16
TEAM LEADER	S. ORRAHOOD	5/16

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

PAVEMENT MARKING PLANS

Registered Professional Engineer (Civil)
CERTIFICATE NO. 41976
THOMAS L. TORTICE
Date Signed 5/19/16
ARIZONA, U.S.A.
EXPIRES 03/31/2017

LOCATION
I-10, SR 85 - VERRADO WAY (WB)

SHEET 10 OF 10

TRACS NO. H8787 01 C

NH-010-A(226)T

___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE	NO.	DESCRIPTION OF REVISION	MADE BY	DATE

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	39	40	

010 MA 112

PART 1 - To be completed by the Landscape Architect or Design Engineer

I. PROJECT DESCRIPTION

A. Owner Name and Address:

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

B. Project TRACS Number: H8787 01C

C. Project Location: I-10, MP 112.20 TO MP 120.00

City: _____ County: Maricopa

Beginning Latitude (NAD 83): 33° 25' 48.5904"
Beginning Longitude (NAD 83): -112° 38' 19.1472"

Ending Latitude (NAD 83): 33° 27' 36.5220"
Ending Longitude (NAD 83): -112° 30' 29.0196"

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:
The work consists milling and replacing existing pavement with AC and AR-ACFC, and placement of shoulder buildup with milled AC material. In addition, the work includes crack repair, pavement markings and other related work.

II. HYDROLOGIC INFORMATION

A. Project Size:
Length (Mi.) 7.80
Area (Ac.) 467

B. Area to be Graded (Ac.) *: 12.22
* Blading of the shoulder build-up area is considered as grading and ground disturbance and should be covered by stormwater and/or other environmental regulations.

C. Percentage of the site that is impervious before and after construction:
Percentage before Construction: 8.99%
Percentage after Construction: 8.99%

D. Receiving Water(s), refer to the Arizona Department of Water Resources Web Link below (USGS Topo) :
https://gisweb.azwater.gov/WellRegistry/Default.aspx

Not Known

III. PRESERVATION OF EXISTING VEGETATION

A. In accordance with the specifications, existing vegetation will be preserved. Clearing limits shall be confined to areas that require grading. Existing vegetation outside the boundaries of the cleared area shall be protected from damage by construction activities. Existing trees within the area to be cleared shall be preserved and protected, wherever possible.

IV. SOIL STABILIZATION MEASURES

A. 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.

B. Scheduling of the revegetation effort can be found on PART 2 of this sheet under SCHEDULE OF MAJOR ACTIVITIES.

V. MEASURES TO CONTROL EROSION AND SEDIMENT

A. Temporary Erosion and Sediment Controls: (Refer to the Following SWPPP Site Plan and Specifications)

- ___ Erosion Control Mattings
- ___ Temporary Diversion Dikes
- ___ Check Dams
- ___ Rock Inlet/Outlet Protection
- ___ Sediment Control Berms
- ___ Silt Fences
- X Wattles (Excelsior/Straw)
- ___ Excelsior Logs / Sediment Logs
- X Seeding (Class II with mulch)
- ___ Others Describe: _____

B. Permanent Erosion and Sediment Controls and Post-construction Storm Water Management Measures: (Refer to SWPPP Site Plan and Specifications)

- ___ Crown Ditch/Dike
- ___ Rock Protection
- ___ Rock Riprap Channel Lining
- ___ Sediment Basin
- ___ Embankment Curb
- ___ Spillways and Downdrains
- ___ Minibenching
- X Seeding established as a perennial vegetative cover with a density of 70% of the native background vegetative cover.
- ___ Others Describe: _____

VI. MAINTENANCE AND INSPECTIONS

A. Frequency of Inspections:

- ___ At least once every 7 calendar days, OR
- X Every 14 calendar days and within 24 hours after a rainfall of 0.5 inches (12.7 mm) or more.

NOTE: RAINFALL GAUGE TO BE KEPT ON-SITE TO DETERMINE DEPTH OF RAINFALL

B. Inspection Procedure:

ADOT's Contractor's Inspection Log and Compliance Evaluation Report (CER) will be completed by the contractor or his representative and will be kept on file for 3 years. A signed copy of the CER will be sent to the ADOT resident engineer. If repairs are necessary, they shall be initiated within 24 hours of the inspection report.

PART 2 - To be completed by ADOT & CONTRACTOR

http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/Docs/swppp_construction_template.dot

I. SCHEDULE OF MAJOR ACTIVITIES

A. Project Schedule: _____

Start Date: _____

End Date: _____

B. Construction Sequencing Schedule: (Attach Additional Sheets)
Construction Activities _____

II. INVENTORY OF POLLUTANTS

A. The materials or substances checked below are expected to be onsite during construction:

- ___ Concrete
- ___ Asphalt
- ___ Paints
- ___ Fertilizer
- ___ Herbicides
- ___ Wood
- ___ Fuel
- ___ Oil
- ___ Others, List: _____

III. POLLUTION CONTROL MEASURES

A. Other Best Management Practices:

- ___ Wind Erosion and Dust Control
- ___ Solid Waste Management
- ___ Equipment Maintenance Procedures
- ___ Designated Washout Areas
- ___ Stabilized Construction Entrance
- ___ Protected Chemical and Material Storage Area
- ___ Other, Describe: _____

IV. SPILL PREVENTION AND RESPONSE

A. Spill Prevention:
The procedures outlined in the Best Management Practices listed under Pollution Control Measures will be followed to prevent and contain spills of hazardous material. These preventative action include BMP's on equipment maintenance and proper handling, storage and disposal of chemicals and materials. All manufacturer's recommendations for usage, clean-up and disposal shall be followed.

B. Spill Response:
In the event of any accidental spill of chemicals or hazardous materials, contact the ADOT Traffic Operations Center at 800-379-3701. If a reportable quantity is discharged into the storm water, ADOT shall contact the National Response Center and document the spill to the EPA. ADOT's Hazardous Materials Specialist shall provide instructions.

V. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

A. This Storm Water Pollution Prevention Plan (SWPPP) has been prepared in accordance with the latest updated version of ADOT's EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION, published by ADOT Intermodal Transportation Division.

___ SWPPP is in compliance with other Federal, State Laws, or Local Regulations.

VI. POLLUTION PREVENTION PLAN CERTIFICATION

A. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Applies to VI. B., C., and D)

B. The operator/contractor as defined in AZPDES should sign the SWPPP in accordance with CGP Part VIII. J, and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours.

Signature: (operator/contractor) _____
Date: _____
Name: _____
Title: _____
Company: _____

C. ADOT Resident Engineer
Signature: (owner) _____
Date: _____
Name: _____
Title: _____
ADOT District: _____

D. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4)
Signature: _____
Date: _____
Name: _____
Title: _____
MS4 Name: _____

VII. OTHER REQUIREMENTS

A. A copy of the General Permit and NOI are attached in accordance to AZPDES General Permit for Storm Water Discharges From Construction Activities To The Water Of The United States.

B. Projects that are within 1/4 mile of impaired or unique waters require the SWPPP to be sent to ADEQ in combination with the NOI. Refer to the Arizona Outstanding, Impaired and Not-Attaining Waters *.PDF Maps by County web link:
http://www.azdot.gov/inside_adot/OES/Water_Quality/Stormwater/outstanding_unique_waters_maps_by_county.asp

C. For further requirements, check the ADEQ's Smart NOI Web Page: https://az.gov/app/smartnoi/

	NAME	DATE
DESIGN	TAO ZI FONG	5-2016
DESIGN	HAN MENG	5-2016
DRAWN	TAO ZI FONG	5-2016
DRAWN	HAN MENG	5-2016
CHECKED	JOHN R. HUCKO	5-2016
TEAM LEADER	E LEROY BRADY	5-2016
ROUTE I-10	MP	LOCATION SR 85 - VERRADO WAY

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

AZPDES SWPPP INDEX SHEET

REGISTERED LANDSCAPE ARCHITECT CERTIFICATE NO. 11197 E. LEROY BRADY Date Signed 5-16-16 ARIZONA, U.S.A. Expires 3/31/2017

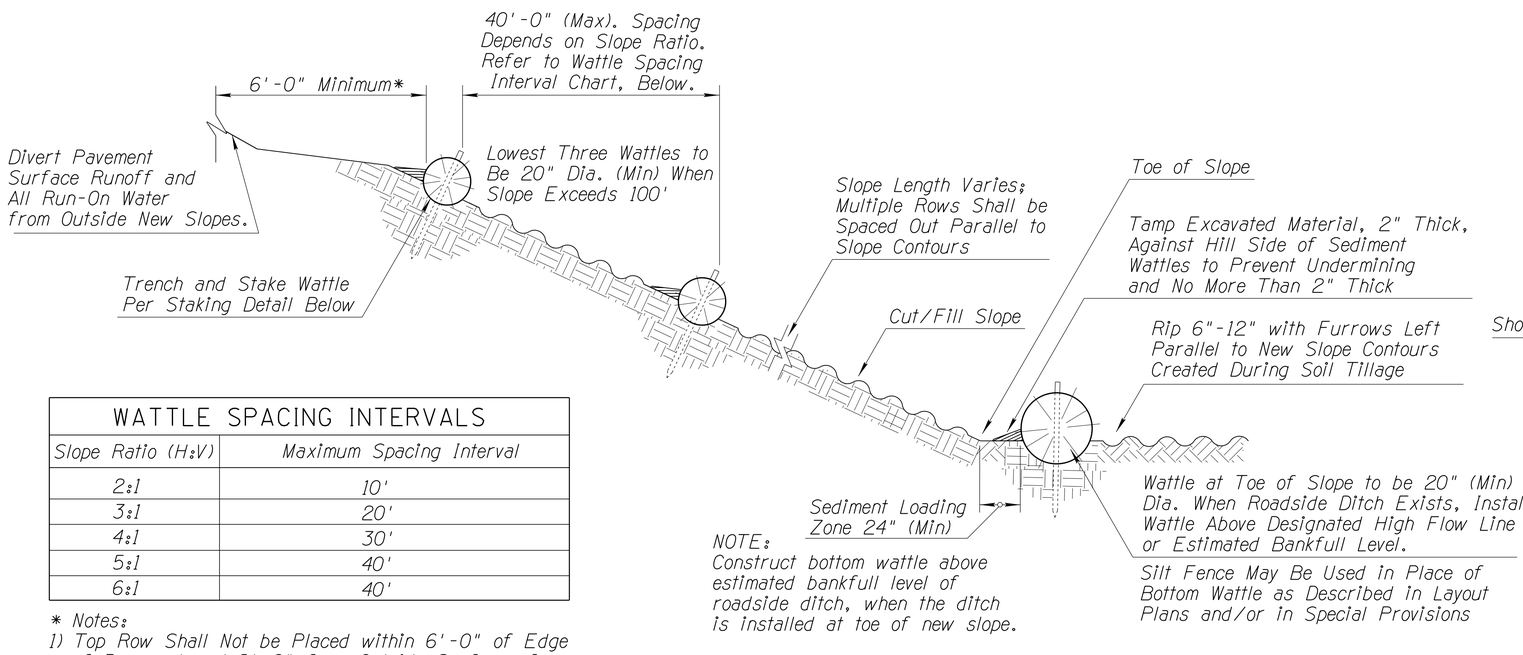
SHEET 1 OF 1

TRACS NO. H8787 01C | 010-A(226)T | ___ OF ___

NO.	DESCRIPTION OF REVISION	MADE BY	DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
9	ARIZ.	010-A(226)T	40	40	

010 MA 112

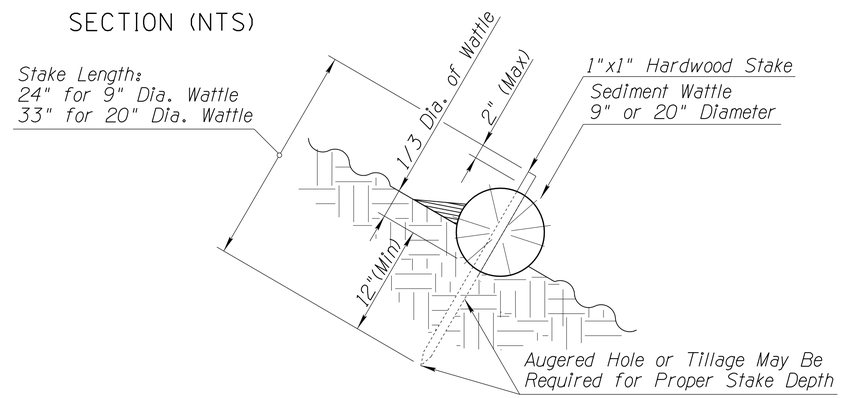


NOTE:
Construct bottom wattle above estimated bankfull level of roadside ditch, when the ditch is installed at toe of new slope.

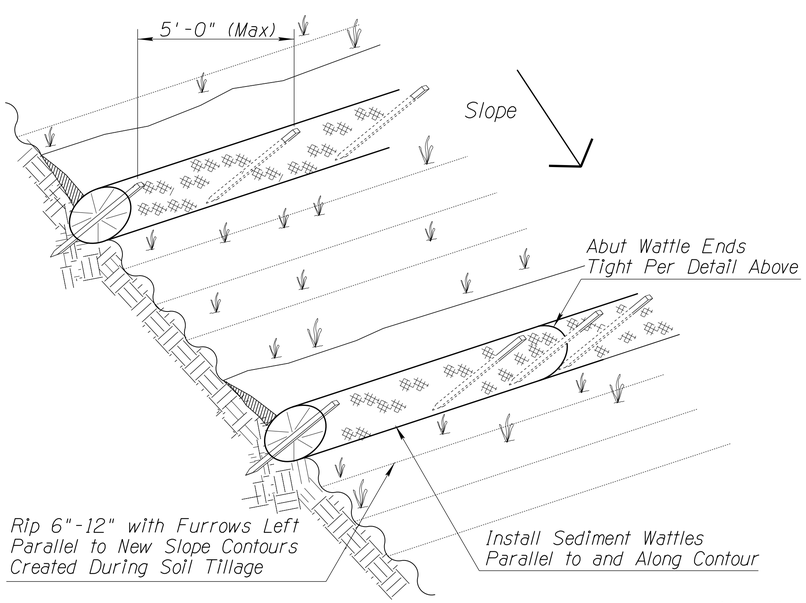
SECTION (NTS)

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

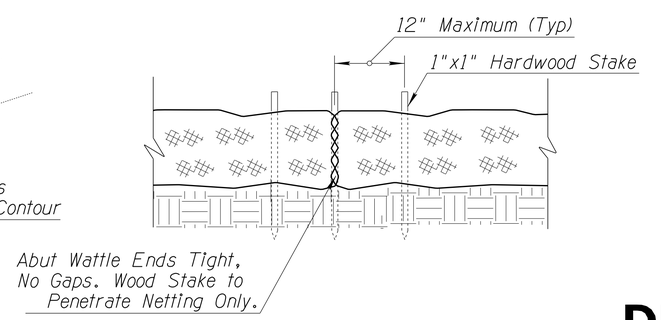
* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.



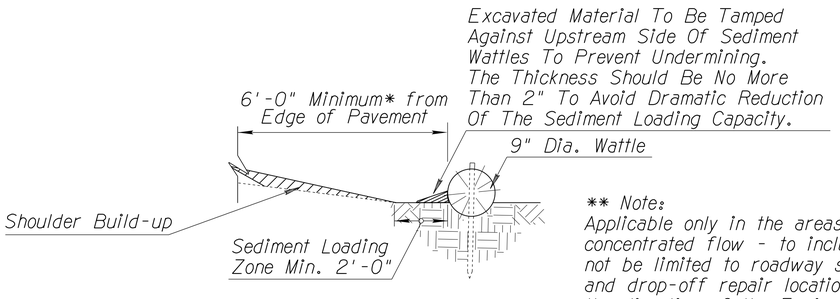
SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE OVERLAP (NTS)



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

NEW SHOULDER BUILDUP ** PROTECTION SECTION (NTS)

NOTES:

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

DETAIL ES1
SEDIMENT WATTLE

	NAME	DATE
DESIGN	TAO ZI FONG	5-2016
DESIGN	HAN MENG	5-2016
DRAWN	TAO ZI FONG	5-2016
DRAWN	HAN MENG	5-2016
CHECKED	JOHN R. HUCKO	5-2016
TEAM LEADER	E LEROY BRADY	5-2016

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

STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS

REGISTERED LANDSCAPE ARCHITECT 11197 E. LEROY BRADY Date Signed 5-16-16 ARIZONA U.S.A. Expires 3/31/2017

ROUTE I-10 | MP | LOCATION SR 85 - VERRADO WAY

SHEET 1 OF 1

TRACS NO. H8787 01C | 010-A(226)T | ____ OF ____

NO. | DESCRIPTION OF REVISION | MADE BY | DATE