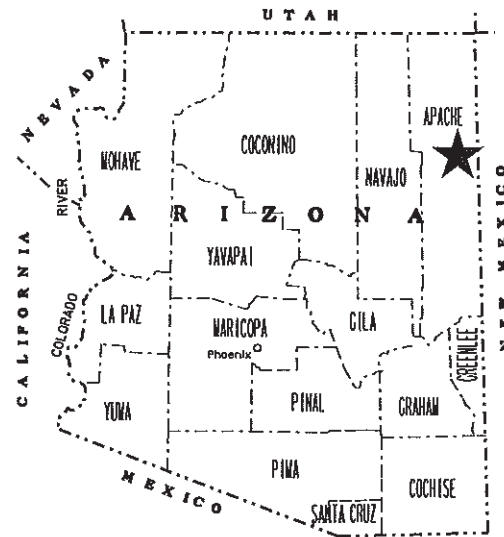


Appendix G: Record Drawing Example

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
PROJECT PLANS

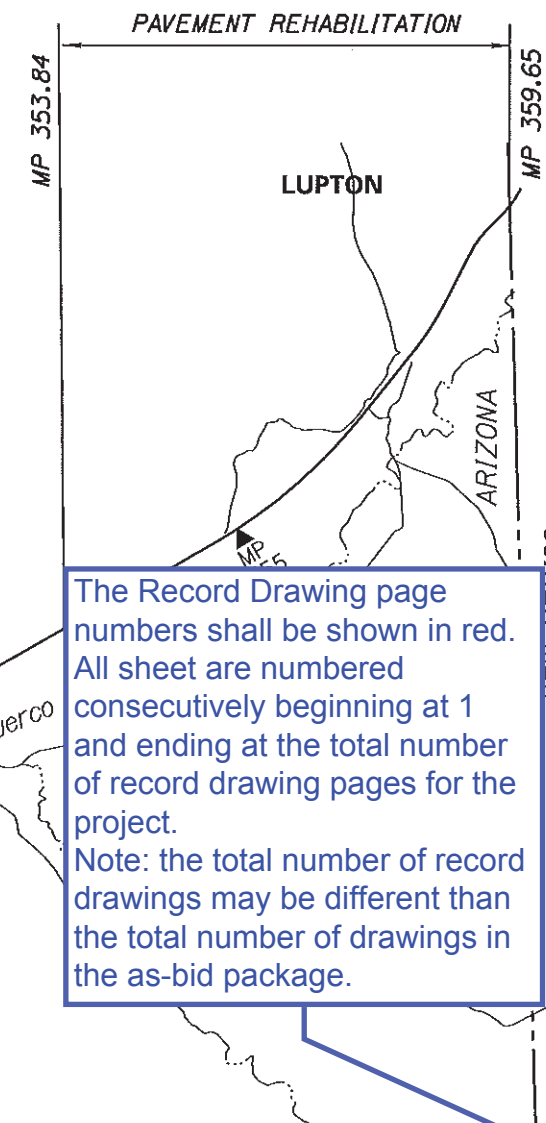
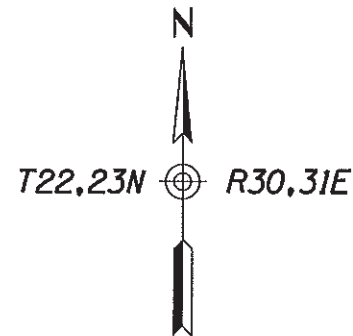
ADOT



PDF/A Identification

STATE HIGHWAY HOLBROOK-LUPTON HIGHWAY INTERSTATE 40

Note: This is an example of how Record Drawings need to be completed. The blue text, blue circles and blue lines are for informational purposes only and should not be included on the Record Drawings.



The Record Drawing page numbers shall be shown in red. All sheet are numbered consecutively beginning at 1 and ending at the total number of record drawing pages for the project.
Note: the total number of record drawings may be different than the total number of drawings in the as-bid package.

This information needs to be filled out in red as shown. The Construction Administrator is the RE on the project and needs to be a PE & designated as a PE as shown. Also needs to be an ADOT employee.

Constructed by:

Great Contracting, Inc.
Construction Company

3/24/2017
Completion Date

Red-Lines by:

Carl Rickson, P.E., ADOT
Construction Administrator Name & Company

3/28/2017
Completion Date

Record Drawings by:

Jon Sey, P.E. ADOT
Record Drawings Designer Name & Company

4/3/2017
Completion Date

Page numbers in lower left corner are for reference only and should not be shown on record drawings.

Page 1

ALLENTOWN RD-STATE LINE

PROJECT NO. 040 AP 353 H8781 01 C
FEDERAL AID NO. NH-040-E(218)T

Record Drawing
date shall be
shown in red.

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
DALLAS HAMMIT, P.E., STATE ENGINEER

REC. DWG. DATE
DATA 4/3/2017 1 OF 75

ADOT STANDARD DRAWINGS
C STANDARDS

| ISSUE OR REVISION DATE | STANDARD NO. | SUBJECT <u>CONSTRUCTION</u> |
|---------------------------------|-----------------|--|
| 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 |

| ISSUE OR REVISION DATE | STANDARD NO. | SUBJECT <u>CONSTRUCTION</u> |
|---------------------------------|-----------------|---|
| 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, SIDE SLOPE |
| 5/12 | C-15.91 | CATCH BASIN, SIDE SLOPE |
| 5/12 | C-15.91 | CATCH BASIN, SIDE SLOPE |
| 5/12 | C-15.92 | CATCH BASIN, SIDE SLOPE |
| 5/12 | C-15.92 | CATCH BASIN, SIDE SLOPE |
| 5/12 | C-16.40 | |
| 5/12 | C-17.10 | |
| 5/12 | C-17.15 | |
| 5/12 | C-17.20 | |
| 5/12 | C-18.10 | |
| 5/12 | C-18.10 | |
| 5/12 | C-18.10 | |
| 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 |

Text should be readable at full
extents of sheet. For 17"x11"
sheets use 10 point and for
34"x22" sheets use 20 point fonts.
Place text in the correct location
and uniform.

Record Drawing
date shall be
shown in red.

The Record
Drawing page
numbers shall be
shown in red.

| | | | |
|--|--------------------------------|--------------------------|---------|
| ADOT STANDARD DRAWINGS | | | |
| REVISION DATES and STANDARD NO.'s REVIEW | | | |
| NAME | DATE | | |
| CONSTRUCTION Standards | 4/3/2017 | 1/17/16 | |
| PROJECT NO. | H8781 01 C | 1A | OF 62 |
| RECOR DRAWING DATA | FEDERAL AID NO. NH-040-E(218)T | RECORD DWG DATE 4/3/2017 | 2 OF 75 |

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

SUBJECT:

SIGNING & MARKING DETAILS

| REVISION | STANDARD | |
|----------|------------|--|
| 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

| | |
|------|------------|
| 6/14 | M-20 SHT 1 |
| 6/14 | M-20 SHT 2 |
| 6/14 | M-21 |
| 6/14 | M-22 SHT 1 |
| 6/14 | M-22 SHT 2 |
| 6/14 | M-22 SHT 3 |
| 6/14 | M-23 |
| 6/14 | M-24 |
| 6/14 | M-26 SHT 1 |
| 6/14 | M-26 SHT 2 |
| 6/14 | M-26 SHT 3 |
| 6/14 | M-26 SHT 4 |
| 6/14 | M-26 SHT 5 |
| 6/14 | M-27 |
| 6/14 | M-29 |
| 6/14 | M-30 |
| 6/14 | M-32 |
| 6/14 | M-33 |
| 6/14 | M-34 |
| 6/14 | M-35 |

SUBJECT:

SIGNING & MARKING DETAILS

| |
|---|
| CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS |
| CHIP SEAL MARKER USAGE FOR TEMPORARY MARKERS |
| TRANSVERSE RUMBLE STRIP DETAILS |
| LONGITUDINAL RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS |
| LONGITUDINAL RUMBLE STRIP EXCEPTION DETAILS |
| CENTERLINE RUMBLE STRIP GROOVE, PATTERN - AND LOCATION DETAILS |
| OBJECT MARKER DETAILS |
| OBJECT MARKER PLACEMENT DETAILS |
| DELINEATOR PLACEMENT AND SPACING |
| DELINEATOR PLACEMENT AND SPACING |
| FLEXIBLE DELINEATOR ASSEMBLIES |
| SQUARE STEEL POST DELINEATOR |
| DELINEATOR FOUNDATION DETAILS |
| DELINEATION DETAILS FOR MEDIAN CROSSTOPS |
| OFF-MAINLINE REFERENCE MARKER LOCATION DETAIL |
| OFF-MAINLINE REFERENCE MARKER DETAILS |
| BRIDGE AND BARRIER MARKER DETAILS |
| BRIDGE & BARRIER MARKER PLACEMENT AND INSTALLATION DETAILS |
| GUARDRAIL END TERMINAL DELINEATION DETAILS |
| OBJECT MARKER FOR SAND BARREL CRASH CUSHION |

Note: The next
several sheets will
be omitted in this
example to reduce
file size and
redundancy of
information.

| | | | |
|--|----------------------------------|----------------------------|---------|
| ADOT STANDARD DRAWINGS | | | |
| REVISION DATES and STANDARD NO.'s REVIEW | | | |
| SIGNING & MARKING STANDARDS | | NAME | DATE |
| PROJECT NO. | | 10-1 | OF 62 |
| H8781 01 C | | | |
| RECORD DRAWING DATA | FEDERAL AID NO. NH-040-E(218) | REC. DWG. DATE 4/3/2017 | 3 OF 75 |

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

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

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

☒ No CWA Section 402 Construction General Permit (CGP) Action Required; See Std. Spec. 104.09 and 104.10 for General Requirements

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

☒ No Permit Required; See Std. Spec. 104.16 for General Requirements

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

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

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

The Contractor shall avoid, and not harm or harass any migratory birds or their nests during the breeding season.

BIO-2D: MBTA – cliff swallows nesting in the project area ☒ N/A

BIO-3: Burrowing Owls

N/A

BIO-4: Bats ☒ N/A

5. **VEGETATION PROTECTION PROGRAM**

General (applies to all projects); Std. Spec. 104.16 for Vegetation Protection Program. The contractor shall provide a letter to the Engineer at the preconstruction conference certifying that the contractor shall comply with the requirements to prevent the spread of invasive species seeds.

☒ No Vegetation Protection Program Action Required; See Std. Spec. 107.11 for General Requirements

6. **CULTURAL RESOURCES PROGRAM – SECTION 106**

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

7. **HAZARDOUS MATERIALS PROGRAM**

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

☐ No Hazardous Materials Program Action Required

Asbestos present? ☒ No ☐ Yes

Is Asbestos Removal and Containment Plan Needed? ☒ No ☐ Yes

Refer to Project Environmental Commitments in Special Provisions for Asbestos Containing Material information and contact ADOT Hazardous Materials Specialist.

Is an NESHAP notice required? ☒ No ☐ Yes

If yes, coordination with the ADOT Hazardous Materials Specialist is required and the NESHAP notification shall be submitted at least ten (10) business days prior to initiation of construction activities to: [Choose an item.](#)

Lead-based paint present? ☒ No ☐ Yes, Lead Based Paint Abatement Plan needed

Refer to Project Environmental Commitments in Special Provisions for Lead Based Paint information and contact ADOT Hazardous Materials Specialist.

8. **NOISE PROGRAM**

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

9. **AIR QUALITY PROGRAM**

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

10. **OTHER ENVIRONMENTAL ISSUES**

Project Specific Environmental Commitments: ☐ N/A

- For milling activities, the roadway surface preceding the milling machine shall be kept sufficiently wet so as to prevent the generation of any visible fugitive dust particles, but no so wet as to cause runoff from the roadway surface into the roadway shoulder.

- If vegetation clearing will occur during the migratory bird breeding season (March 1-August 31), the contractor shall avoid any active bird nests. If the active bird nests cannot be avoided, the contractor shall notify the Engineer to evaluate the situation. During the non-breeding season (September 1-February 28) vegetation removal is not subject to this restriction.

| Arizona Department of Transportation Environmental Planning Standard Template | | | |
|---|---|--------------------------|--|
| Environmental, Permits, Issues, And Commitments (EPIC) Sheet | | | |
| Environmental Planner Name | Tatum Wertin | R.E. Name | John Dow |
| Environmental Planner Signature |  | R.E. Signature |  With the above signature, the R.E. attests that all EPIC work for this project has been satisfactorily completed. |
| Signature Date | 1/6/2023 | | |
| FEDERAL ID NO. | A89-A(212)T | | |
| TRACS NO. | 89A YV 353 F0443 01C | | |
| Project Name | Main St. – River Ave. | | Sheet 1F |
| | | REC DWG DATE 4/3/2017 | 4 OF 75 |

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 2 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

The Record Drawing date shall be shown in red.

MIDPOINT OF PROJECT

Eastern Zone
State Plane Coordinates

X=829,000
Y=1,581,000

REFERENCES

I-40-5 (42)
I-40-5 (8)
I-40-5 (29)
STP-40-5(90)
I-40-5-504
1M-04D-E(211)A
1M-40-5(102)P

DESIGN DATA

2016 AADT = 19,200
2026 AADT = 23,800
Design Speed = 75 MPH

LENGTH OF PROJECT

Westbound ☉
Beg Proj Sta 2569+44.00 to 2723+38.10 BK = 15,394.10'
Sta 2723+58.10 AHD to 2803+11.28 BK = 7,953.18'
Sta 2803+22.63 AHD to 2850+56.84 BK = 4,734.21'
Sta 2850+37.77 AHD to 2871+13.04 BK = 2,075.27'
Sta 2871+29.03 AHD to End Proj 2876+60.28 = 531.25'

Westbound Net Length = 30,688.01' = 5.81 miles
Mile Post 353.84 to 359.65

Eastbound ☉
Beg Proj Sta 2569+44.00 to 2723+78.22 BK = 15,434.22'
Sta 2723+58.16 AHD to 2803+33.99 BK = 7,975.83'
Sta 2803+22.63 AHD to 2850+18.70 BK = 4,696.07'
Sta 2850+37.77 AHD to 2871+45.02 BK = 2,107.25'
Sta 2871+29.03 AHD to End Proj 2874+89.23 = 360.20'

Eastbound Net Length = 30,573.57' = 5.79 miles
Mile Post 353.84 to 359.63

☉ Station Limits Include all structures within the limits of the project.

Hawthorne TI Bridge: MP 354.61 to MP 354.62
Window Rock TI Bridge: MP 357.53 to MP 357.54
Lupton/Grants TI Bridge: MP 359.20 to MP 359.21

INDEX OF SHEETS

DWG No. Sheet Type

1 Face Sheet
1A,1B-1,1B-2,1C-1,1C-2,1D,1E ADOT Standard Drawings
2-8 Design Sheets
9-12 Barrier Summary Sheets
13-19 Detail Sheets
20-28 Plan Sheets
29-37 Traffic Control Sheets
38 Pavement Marking Sheet
39-53 Erosion Control Sheets
54-62 Bridge Sheets

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.

Prior to the start of construction, the contractor shall establish control for locating and documenting existing striping and reflective pavement markers. After paving, the striping and reflective pavement markers shall be installed using survey control and documented existing striping and reflective pavement marker information, while also using the current edition of the Signing and Marking Standard drawings (M & S Series). This item is paid for under construction survey & layout.

Existing centerline information shown is based on as-built information. No geometric survey was completed for this project. The contractor shall establish survey control.

All paving limits shall be as shown on the plans or as determined by the Engineer based on field conditions.

Pavement lift thickness is nominal.

The average project elevation is 6100'.

Existing utility locations are approximate. The contractor shall verify the exact location and depth of all underground facilities and comply with all current blue stake laws and section 107.15 of the specifications.

Delineators and object markers shall be removed and replaced with new as noted in the plans. The cost of removal is considered included in the price of contract items.

New right-of-way and easements are not required.

For right-of-way information not shown, see right-of-way plans D-1-T-252, A-1-T-210 and D-1-T-217B.

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

Elevations noted in () are approximate. Contractor shall verify all existing elevations prior to construction.

Approximately 8 Tons of AC (Misc Str) and 11 CY of embankment (milled AC) are estimated for the construction of each guardrail end terminal pad. See Special Provisions.

The seal and signature need to be on each drawing. This also needs to be readable.

The Record Drawing page numbers shall be shown in red.

| LOOP DETECTOR / CLASSIFIER SYSTEMS | | |
|--|------|----------------------|
| Std T.S. 6-1 Type C = Traffic Counter | | |
| Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class | | |
| Systems | Type | Approximate Location |
| 1 * | C | MP 357.1 EB & WB |
| 1 * | C | MP 357.9 EB & WB |

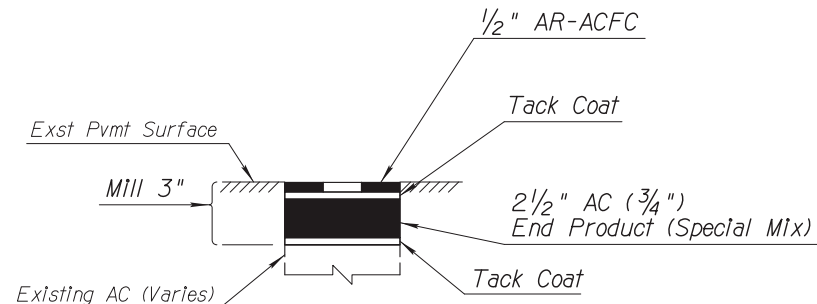
* Partial Replacement

Notes:

- Depth of sawcut shall be 4"
- Contractor shall install loops prior to AR-ACFC placement

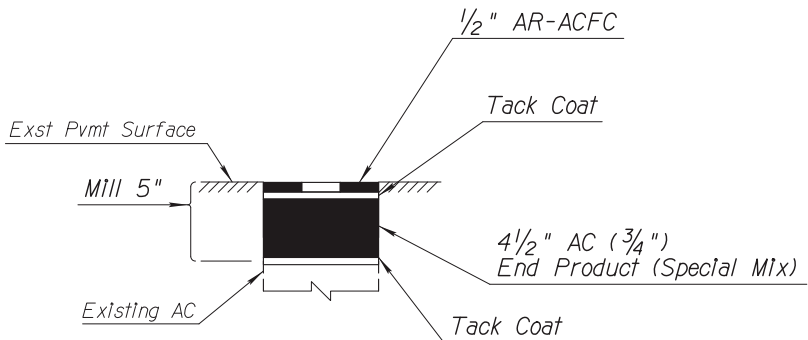
| | | | | | |
|-----------------------------|---------------------------|------|-------|--|---------|
| DESIGN | JKF | DATE | 12/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | DATE | 12/15 | | |
| CHECKED | ZK | DATE | 12/15 | | |
| PARSONS BRINCKERHOFF | | | | DESIGN SHEET | |
| ROUTE | LOCATION | | | Expires 09/30/2017 | |
| I-40 | ALLENTOWN RD - STATE LINE | | | SHEET 2 OF 62 | |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | 9 OF 75 |

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 3 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



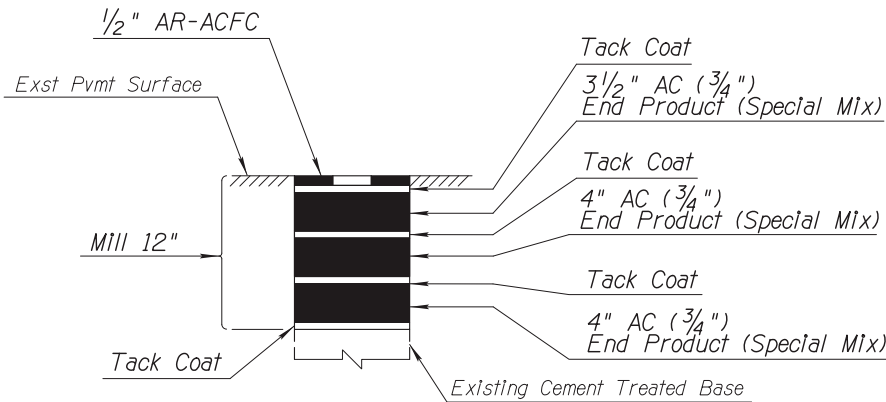
Total Thickness = 3"
PAVEMENT STRUCTURAL SECTION NO. 1

I-40 West Bound Passing Lane
I-40 East Bound Passing Lane
Ramps and Bridge Decks at:
Hawthorne Road T.I.,
Window Rock T.I.,
Grant Rd/Lupton T.I.



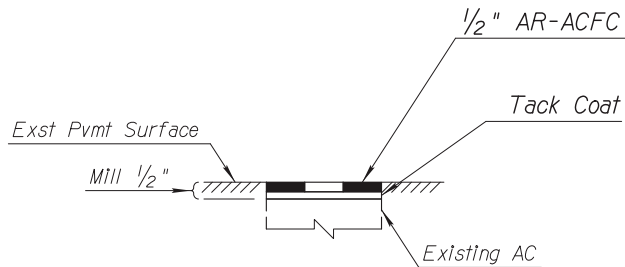
Total Thickness = 5"
PAVEMENT STRUCTURAL SECTION NO. 2

I-40 East Bound Travel Lane
I-40 West Bound Travel Lane



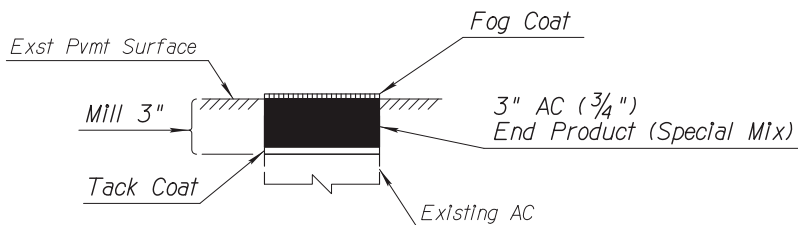
Total Thickness = 12"
PAVEMENT STRUCTURAL SECTION NO. 3

I-40 East Bound Travel Lane
I-40 West Bound Passing and Travel Lanes



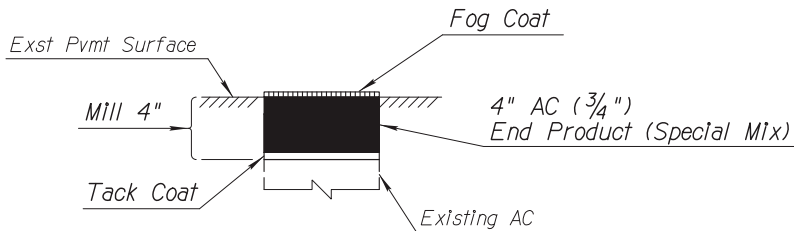
Total Thickness = 1/2"
PAVEMENT STRUCTURAL SECTION NO. 4

I-40 West Bound Inside and
Outside Shoulders
I-40 East Bound Inside and
Outside Shoulders



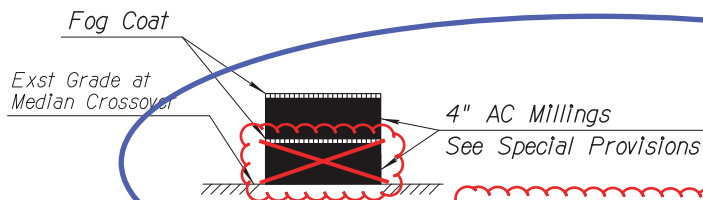
Total Thickness = 3"
PAVEMENT STRUCTURAL SECTION NO. 5

Cross Streets at:
Hawthorne Road T.I.,
Window Rock T.I.,
Grant Rd/Lupton T.I.



Total Thickness = 4"
PAVEMENT STRUCTURAL SECTION NO. 6

Text should be readable at full
extents of sheet. For 17"x11"
sheets use 10 point and for
34"x22" sheets use 20 point fonts.
Place text in the correct location
and uniform.



Total Thickness = 8"
PAVEMENT STRUCTURAL SECTION NO. 7

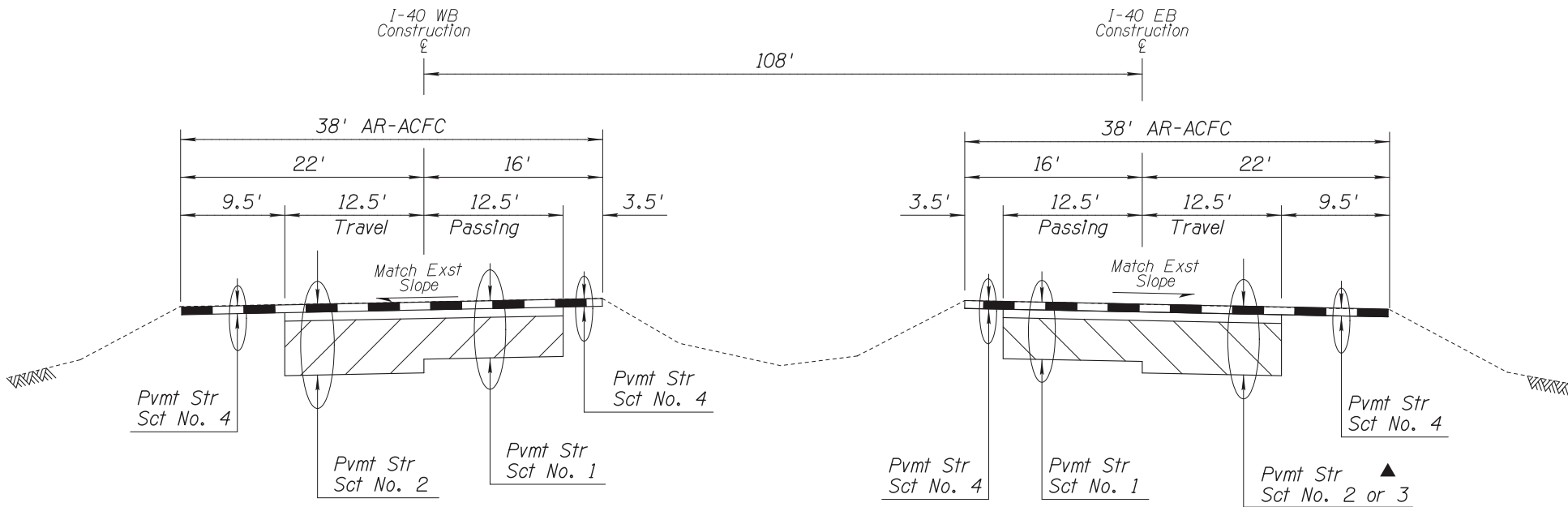
Median Crossovers

All field changes
need to be shown
clearly. The field
changes need to
be clouded as
shown and also in
red.

| | | | | |
|-----------------------------|------------|----------|--|---------------|
| DESIGN | JKF | 12/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | 12/15 | | |
| CHECKED | ZK | 12/15 | | |
| PARSONS BRINCKERHOFF | | | DESIGN SHEET PAVEMENT STRUCTURAL SECTIONS | |
| ROUTE | I-40 | LOCATION | ALLENTOWN RD - STATE LINE | SHEET 3 OF 62 |
| TRACS NO. | H8781 01 C | | NH-040-E(218)T | 10 OF 75 |

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

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 4 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



▲ Pvmt Str Sct No. 2: Sta 2569+44 to 2773+57.54
Pvmt Str Sct No. 3: Sta 2773+57.54 to 2805+24.15

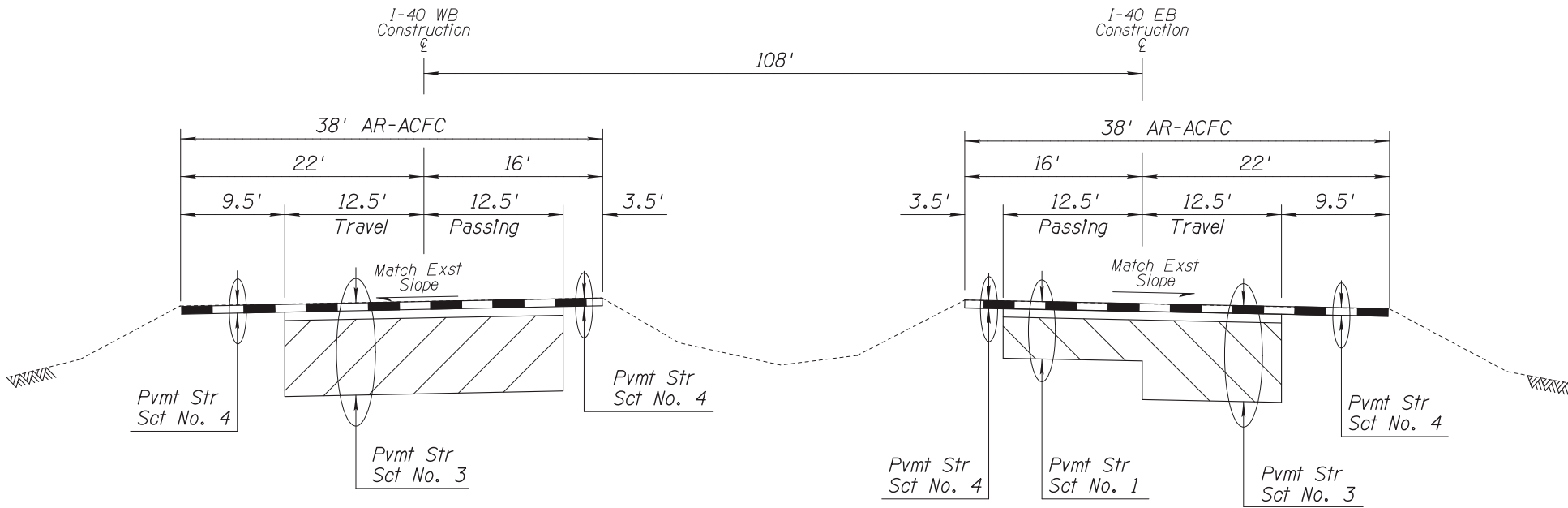
WESTBOUND

Sta 2569+44.00 to 2723+38.10 BK
Sta 2723+58.10 AHD to 2803+11.28 BK
Sta 2803+22.63 AHD to 2805+24.15

TYPICAL SECTION

EASTBOUND

Sta 2569+44.00 to 2723+78.22 BK
Sta 2723+58.16 AHD to 2803+33.99 BK
Sta 2803+22.63 AHD to 2805+24.15



WESTBOUND

Sta 2805+24.15 to 2850+56.84 BK
Sta 2850+37.77 AHD to 2871+13.04 BK
Sta 2871+29.03 AHD to 2876+60.28

TYPICAL SECTION

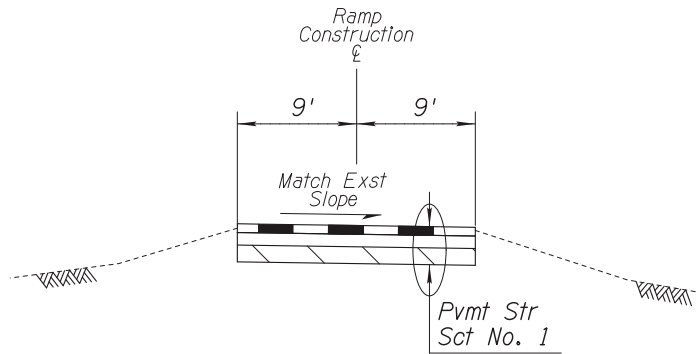
EASTBOUND

Sta 2805+24.15 to 2850+18.70 BK
Sta 2850+37.77 AHD to 2871+45.02 BK
Sta 2871+29.03 AHD to 2874+89.23

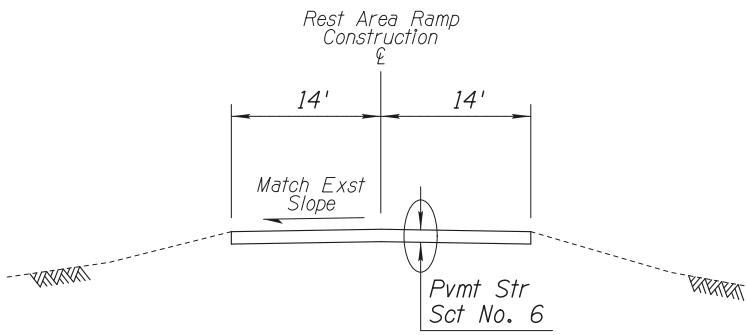
| I-40 BRIDGE DECKS ■ | | | |
|---------------------|-------------------|---------|---------|
| | | Beg Sta | End Sta |
| EB | Hawthorne T.I. | 2610+05 | 2610+95 |
| | Window Rock T.I. | 2764+33 | 2764+67 |
| | Grant/Lupton T.I. | 2852+18 | 2852+52 |
| WB | Hawthorne T.I. | 2610+05 | 2610+95 |
| | Window Rock T.I. | 2764+33 | 2764+67 |
| | Grant/Lupton T.I. | 2852+18 | 2852+52 |

■ All bridge decks to receive Pvmt Str Sct No. 1

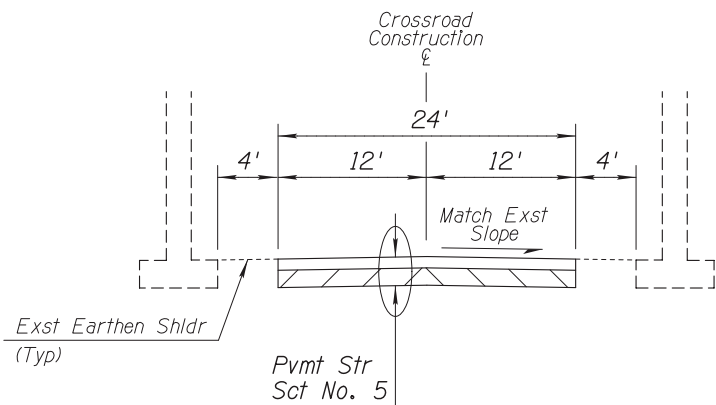
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|---------------------------------|-----|---------------------------|-------|---|----------------|------------------------|
| | | NAME | DATE | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | | |
| DESIGN | JKF | | 12/15 | | | |
| DRAWN | CPG | | 12/15 | DESIGN SHEET TYPICAL SECTION | | |
| CHECKED | ZK | | 12/15 | | | |
| PARSONS BRINCKERHOFF | | | | | | |
| ROUTE | | LOCATION | | | | Expires 09/30/2017 |
| I-40 | | ALLENTOWN RD - STATE LINE | | | | SHEET 4 OF 62 |
| TRACS NO. H8781 01 C | | | | | NH-040-E(218)T | <u>11</u> OF <u>75</u> |



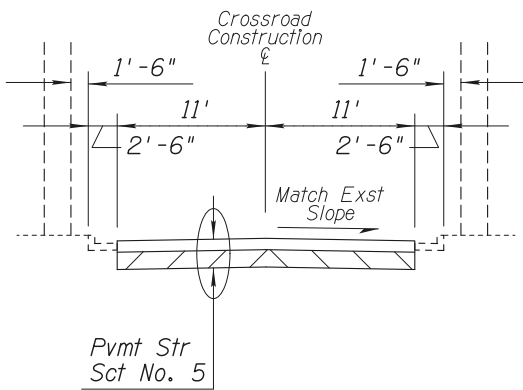
TYPICAL SECTION
Hawthorne, Window Rock &
Grant Rd/Lupton T.I. On and Off Ramps



TYPICAL SECTION
I-40 Painted Cliffs Rest Area Ramps & Roads



TYPICAL SECTION
Hawthorne T.I. Crossroad



TYPICAL SECTION
Window Rock, Grant Rd/Lupton T.I. Crossroads

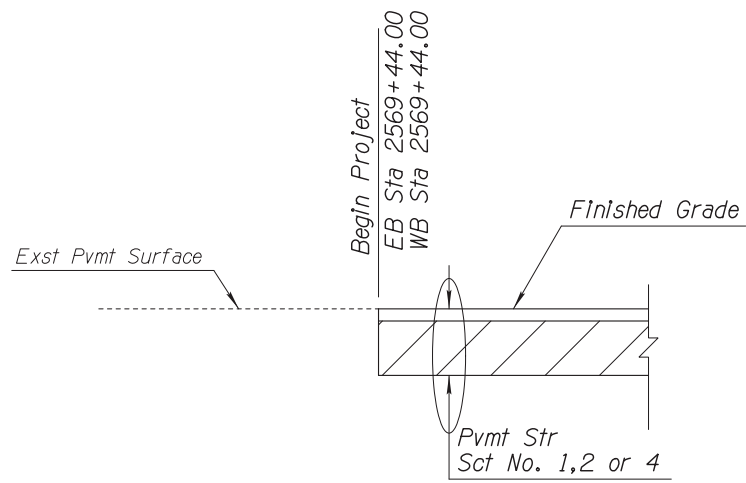
| RAMP PAVING LIMITS | | |
|--------------------|-----------|---------|
| Hawthorne Rd TI | | |
| Ramp E | Begin Sta | End Sta |
| EB Off-Ramp | 4+24 | 10+97 |
| EB On-Ramp | 0+55 | 5+10 |
| WB On-Ramp | 0+57 | 7+47 |
| WB Off-Ramp | 4+41 | 9+90 |
| Window Rock TI | | |
| Ramp E | Begin Sta | End Sta |
| EB Off-Ramp | 5+24 | 11+31 |
| EB On-Ramp | 0+70 | 5+67 |
| WB On-Ramp | 0+67 | 7+78 |
| WB Off-Ramp | 5+34 | 11+31 |
| Grant/Lupton TI | | |
| Ramp E | Begin Sta | End Sta |
| EB Off-Ramp | 2+83 | 11+36 |
| EB On-Ramp | 0+55 | 12+15 |
| WB On-Ramp | 0+84 | 9+25 |
| WB Off-Ramp | 5+62 | 9+56 |

| CROSSROAD PAVING LIMITS | | |
|-------------------------|-----------|---------|
| Crossroad | Begin Sta | End Sta |
| Hawthorne Rd | 0+70 | 5+29 |
| Window Rock/N12 | 17+81 | 22+16 |
| Grant Rd | 0+00 | 5+86 |

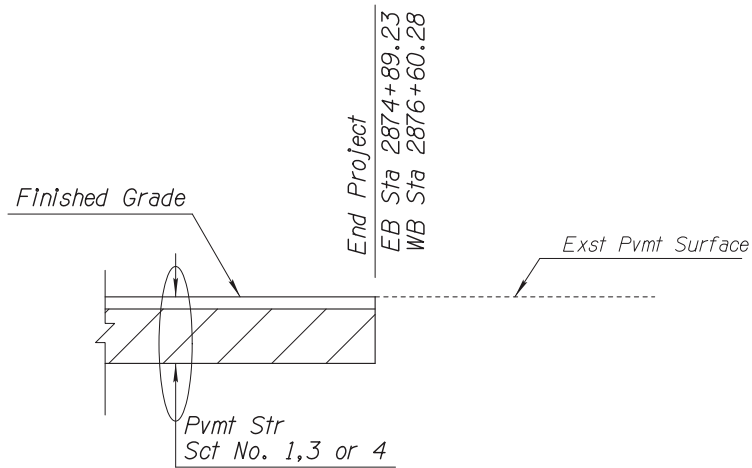
| | | | | | |
|-----------------------------|------|----------|---------------------------|--|----------------|
| DESIGN | JKF | DATE | 12/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | DATE | 12/15 | | |
| CHECKED | ZK | DATE | 12/15 | | |
| PARSONS BRINCKERHOFF | | | | DESIGN SHEET TYPICAL SECTION | |
| ROUTE | I-40 | LOCATION | ALLENTOWN RD - STATE LINE | TRACS NO. H8781 01 C | NH-040-E(218)T |
| | | | | | 12 OF 75 |

DATE- LOCATION- REVISIONS- SURVEY NO. DATE- LOCATION- REVISIONS- SURVEY NO. DATE- LOCATION- REVISIONS- SURVEY NO.

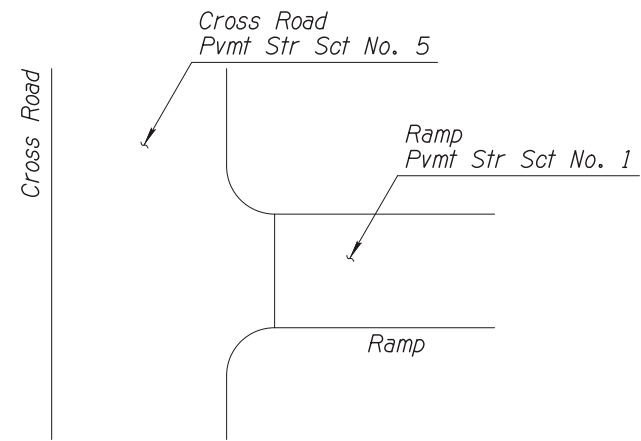
| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 6 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



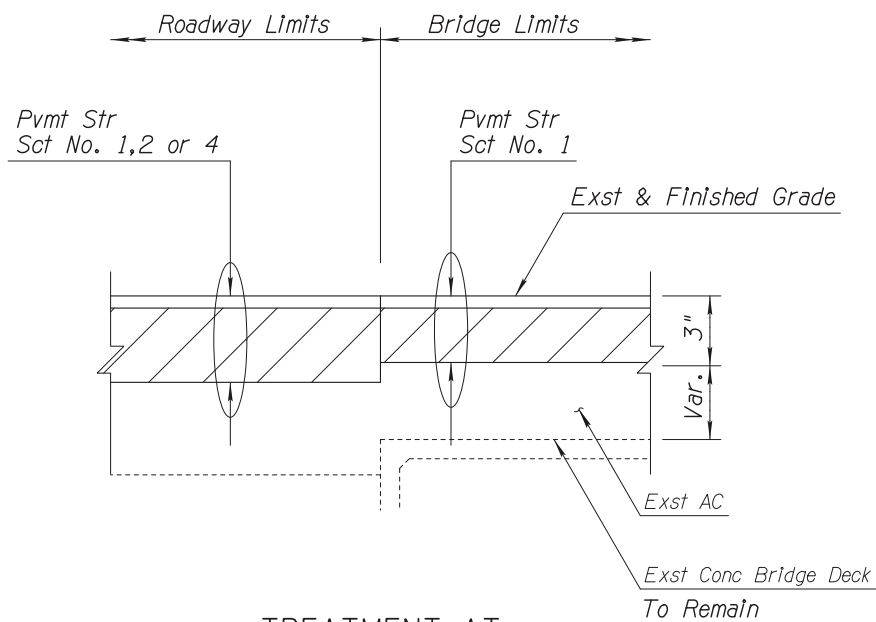
TREATMENT AT BEGIN OF PROJECT
I-40 Travel & Passing Lane, Shoulders



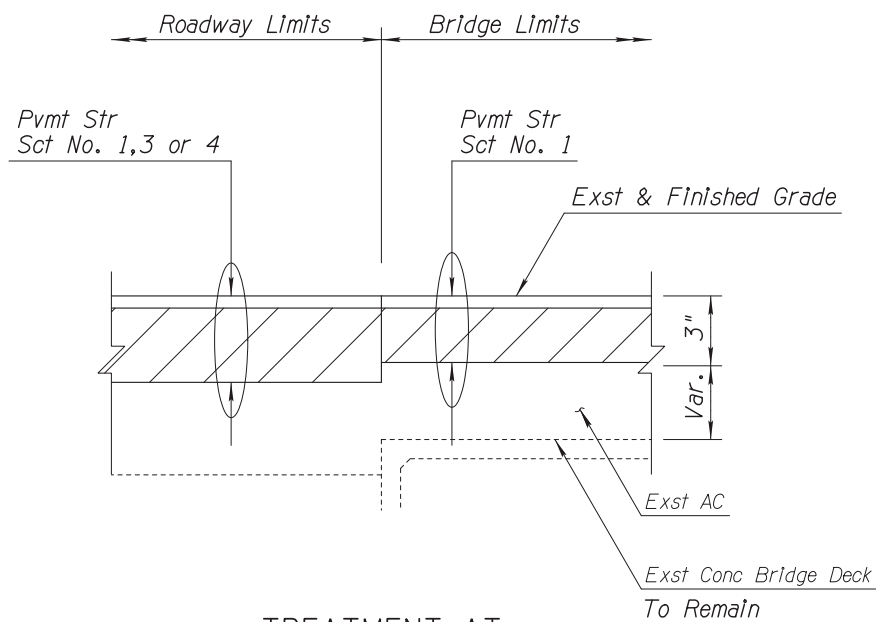
TREATMENT AT END OF PROJECT
I-40 Travel & Passing Lane, Shoulders



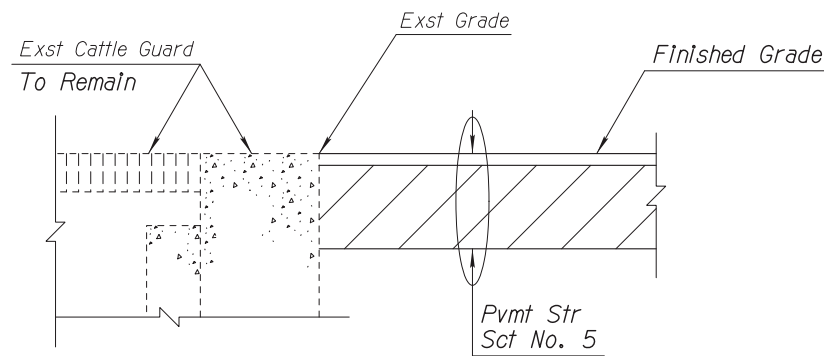
PAVEMENT TRANSITION
AT CROSS ROADS AND RAMPs



TREATMENT AT
HAWTHORNE & WINDOW ROCK
BRIDGE STRUCTURES
I-40 Travel & Passing Lane, Shoulders



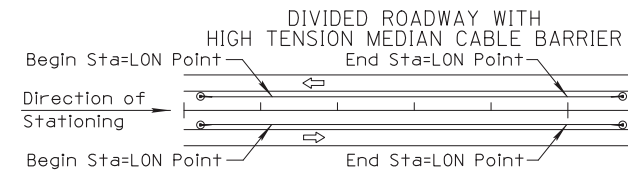
TREATMENT AT
GRANT/LUPTON
BRIDGE STRUCTURES
I-40 Travel & Passing Lane, Shoulders



TREATMENT AT
GUARD (ALL CROSSROADS)

Note: The next several sheets will be omitted in this example to reduce file size and redundancy of information.

| | | | | | |
|-----------------------------|------|----------------------------------|---------------------------|--|--|
| DESIGN | JKF | DATE | 12/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | DATE | 12/15 | | |
| CHECKED | ZK | DATE | 12/15 | | |
| PARSONS BRINCKERHOFF | | DESIGN SHEET PAVEMENT DETAILS | | Expires 09/30/2017 | |
| ROUTE | I-40 | LOCATION | ALLENTOWN RD - STATE LINE | SHEET 6 OF 62 | |
| TRACS NO. H8781 01 C | | NH-040-E(218)T | | 13 OF 75 | |



| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|--------------------|-------|-------------|--------------|-----------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 9 | 62 | 4/3/2017 |
| | | 040-AP-353 | | | |

[illegible]

Note: The end treatment used in the project needs to be circled and the Detail sheet for the end treatment that was not used on the project needs to be "X'd" out (see the next page). If both end treatments were used, then this is not required.


Note: The next several sheets will be omitted in this example to reduce file size and redundancy of information.

THE ZEROS IN PARENTHESES (0.0) INDICATE THE DIMENSIONAL PRECISION FOR THAT COLUMN

- ▲ THE LENGTH OF NESTED W-BEAM IS FOR TYPES 2 OR 3 (37.5'). DETERMINATION OF TYPE (1, 2 or 3) TO USE IS MADE IN THE FIELD. THE PAY QUANTITY IS THE LENGTH INSTALLED PER STD. C-10.06 (25.0' or 37.5')
- ▲ END STATION BEFORE BRIDGE TRANSITION

- ◆ BEGIN STATION AFTER BRIDGE TRANSITION
- ◐ SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES
- LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.

- ☒ ALLOWABLE END TREATMENT OPTIONS ARE INDICATED WITH THE NUMBER '1' IN THE SPACE. BLANK SPACES ARE NOT VIABLE ALTERNATIVES
☒ ARRAY TYPE AND ANGLE IS NOTED UNDER 'REMARKS'
☒ FOR AS-BUILT PREPARATION - CIRCLE END TREATMENT INSTALLED

| | | | | | | | | | |
|---------------------------------|--|------|---------------------------|-------|--|---|--|---|--|
| | | NAME | | DATE | | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |  | |
| DESIGN | | JKF | | 12/15 | | | | | |
| DRAWN | | CPG | | 12/15 | | | | | |
| CHECKED | | ZK | | 12/15 | | | | | |
| PARSONS BRINCKERHOFF | | | | | | BARRIER SUMMARY SHEET | | | |
| ROUTE | | | LOCATION | | | Expires 09/30/2017 | | | |
| I-40 | | | ALLENTOWN RD - STATE LINE | | | SHEET 9 OF 62 | | | |
| TRACS NO. H8781 01 C | | | | | | NH-040-E(218)T | | | |
| | | | | | | 16 OF 75 | | | |

Date: 12/12/14

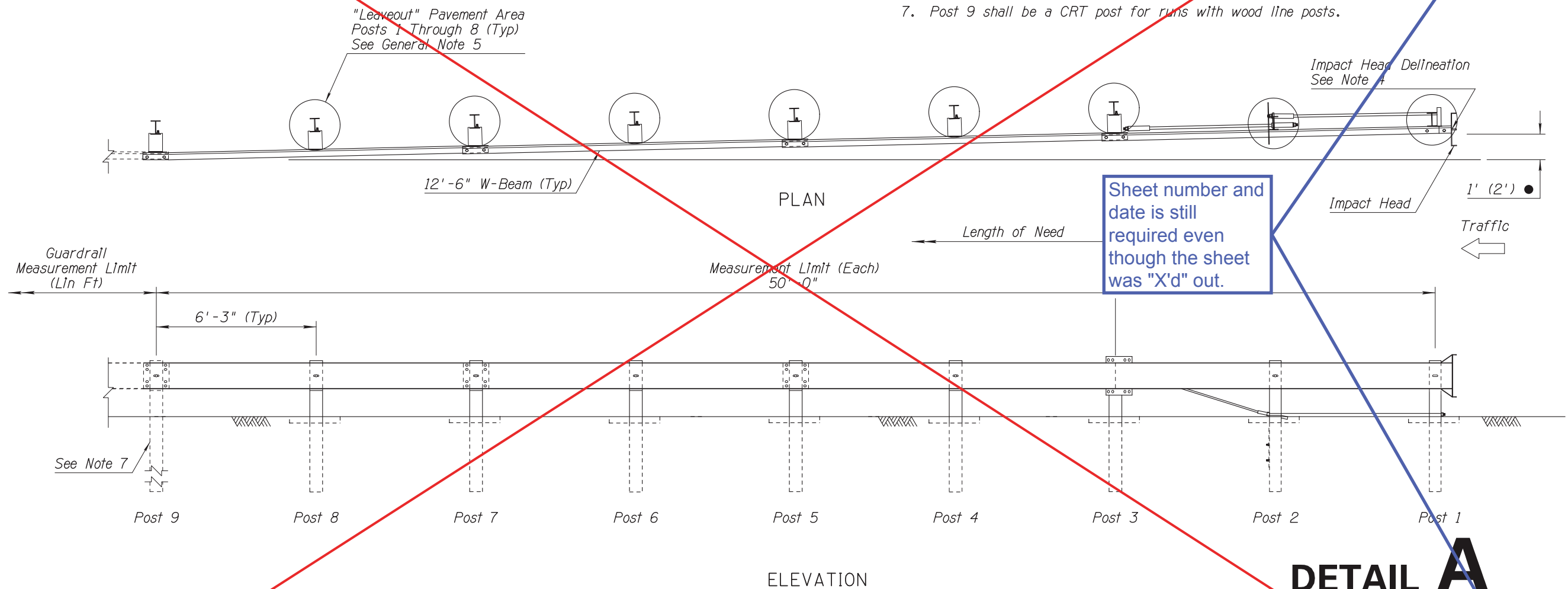
- FOR ELEVATIONS ABOVE 4,000', USE THE VALUES IN PARENTHESES

Note: This end treatment was not used on the project. The Contractor was given the option of Detail A or Detail B for an end treatment. Detail A was not used. The barrier summary sheet (the previous sheet to this sheet) was circled with the end treatment that was used. Detail B was used. This sheet is "X'd" out from corner to corner as shown.

GENERAL NOTES

- This detail is for roadway layout only.
- The X-LITE shall be installed in accordance with the manufacturer's specifications and current approved drawings including all details, hardware, hardware quantities, and other information.
The current manufacturer's approved drawing is number XLTSUS-50, 10/2014. Visit the Roadway Design web site to view and print the drawing.
- The 50' W-Beam length shall consist of four 12'-6" sections.
- See specifications and Traffic Signing and Marking Standard Drawings.
- "Leaveouts" shall be provided in the AC pavement around guardrail posts 1 through 8. "Leaveouts" shall be filled flush to top of pavement with 3" (6" max) of CLSM grout having a 28 day compressive strength between 40 and 120 psi.
- Posts 4 - 8 shall be steel line posts. Posts 1 - 3 are proprietary.
- Post 9 shall be a CRT post for runs with wood line posts.

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 13 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



Sheet number and date is still required even though the sheet was "X'd" out.

DETAIL A

Sheet 1 of 2
LAYOUT FOR X-LITE
TANGENT
(AC PAVEMENT)

ADOT Standard Sheet not required

Note: PE stamp is not required on this sheet.
This is a Standard Drawing.

| | | | |
|--|---------------------------|---|----|
| DESIGN APPROVED J.C. Cooper | | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL | |
| APPROVED FOR DISTRIBUTION Annette Riley | | DETAIL SHEET DETAIL A | |
| ROUTE | LOCATION | SHEET | OF |
| TRACS NO. H8781 01 C | ALLENTOWN RD - STATE LINE | 13 | 62 |
| NH-040-E(218)T | | 20 | 75 |

Note to Designer:
The information presented in this Roadway Plans Detail is for general use. Designers should satisfy themselves that their project site conditions are appropriate for use of this drawing. Contents within the inner border shall not be altered, except for the addition of the Detail designation.

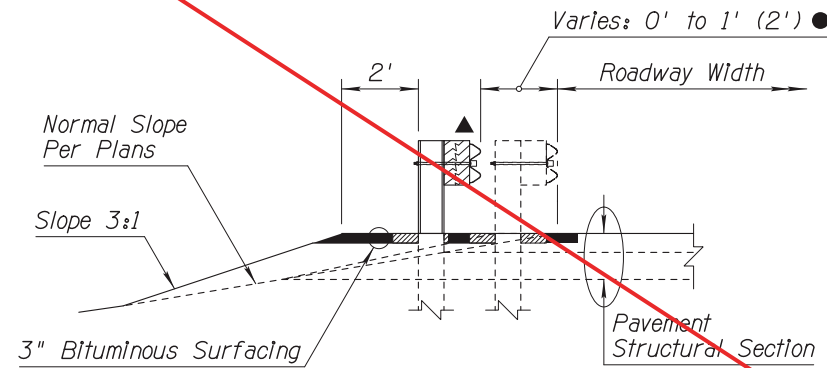
| NO | DESCRIPTION OF REVISIONS | MADE BY | DATE |
|----|--------------------------|---------|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Date: 12/12/14

● FOR ELEVATIONS ABOVE 4,000 FT, USE THE VALUES IN PARENTHESES

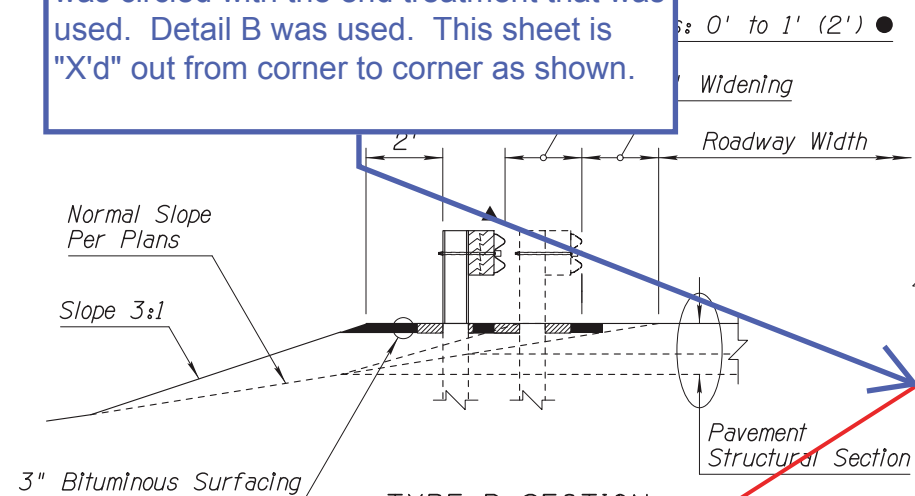
▲ Top of Rail = 28"
See General Note 1
Std Dwg C-10.03

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 14 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

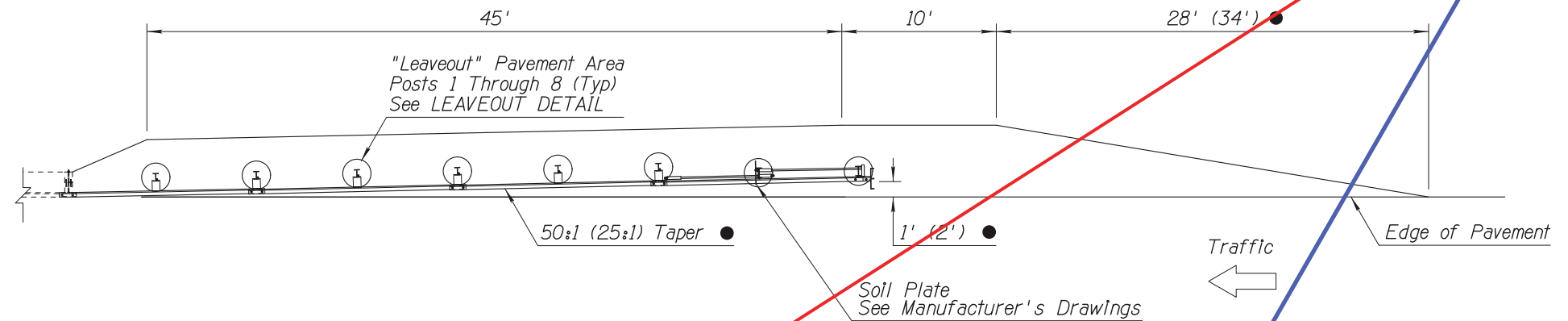


TYPE A SECTION

Note: This end treatment was not used on the project. The Contractor was given the option of Detail A or Detail B for an end treatment. Detail A was not used. The barrier summary sheet (sheet 16 of 75) was circled with the end treatment that was used. Detail B was used. This sheet is "X'd" out from corner to corner as shown.

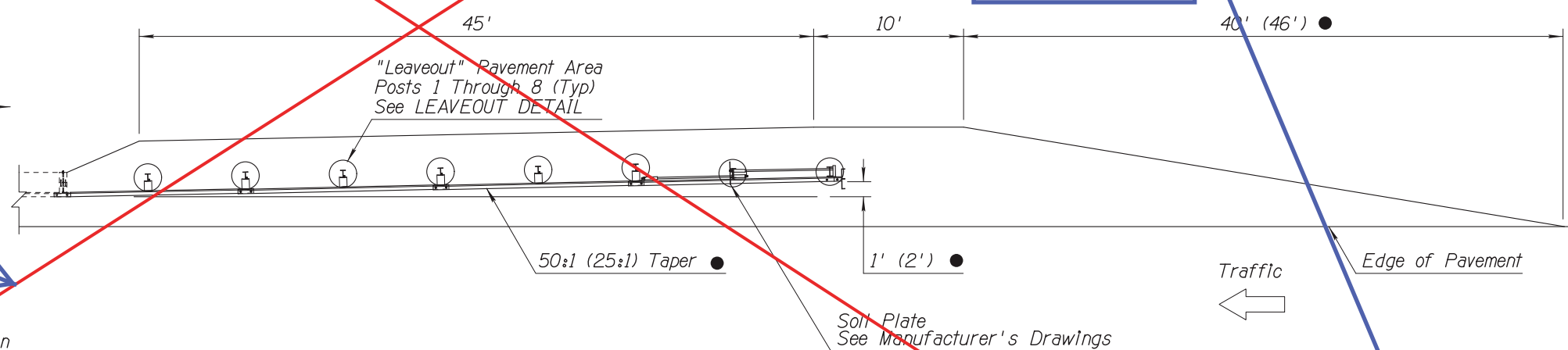


TYPE B SECTION



TYPE A GUARDRAIL INSTALLATION
(FACE OF RAIL AT EDGE OF PAVEMENT)

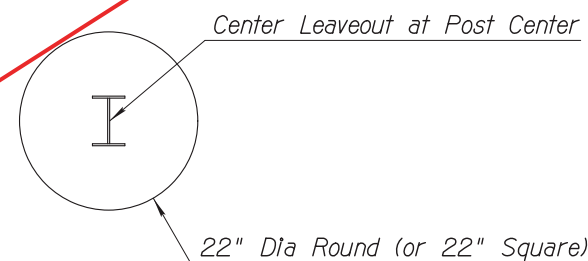
Sheet number and date is still required even though the sheet was "X'd" out.



TYPE B GUARDRAIL INSTALLATION
(FACE OF RAIL OFFSET 2' FROM NORMAL EDGE OF PAVEMENT)

DETAIL A

Sheet 2 of 2
LAYOUT FOR X-LITE
TANGENT
(AC PAVEMENT)



LEAVEOUT DETAIL

ADOT Standard Sheet not required

Note: PE stamp is not required on this sheet.
This is a Standard Drawing.

| | |
|---|--|
| DESIGN APPROVED J.C. Cooper | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL |
| APPROVED FOR DISTRIBUTION Annette Riley | DETAIL SHEET DETAIL A |
| ROUTE LOCATION ALLENTOWN RD - STATE LINE | SHEET 14 OF 62 |
| TRACS NO. H8781 01 C | NH-040-E(218)T |

Date: 6/06/11

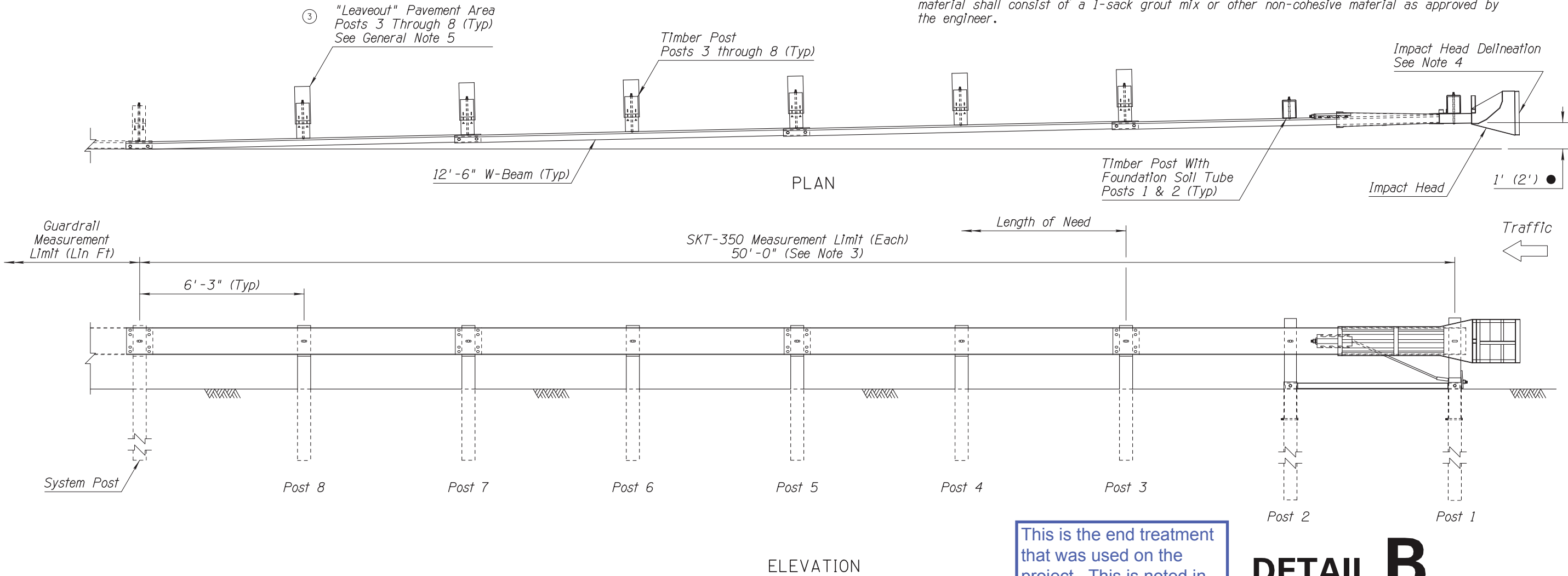
- FOR ELEVATIONS ABOVE 4,000', USE THE VALUES IN PARENTHESES

GENERAL NOTES

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 15 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

- This detail is for roadway layout only.
- The SKT-350 shall be installed in accordance with the manufacturer's specifications and current approved drawings including all details, hardware, hardware quantities, and other information.

The current manufacturer's approved drawing is number SKT-W-2US-AZ, 06/04/11. Visit the Roadway Design web site to view and print the drawing.
- The 50' W-Beam length shall consist of four 12'-6" sections, the end section being a proprietary split rail.
- See specifications and Traffic Signing and Marking Standard Drawings.
- "Leaveouts" in asphaltic concrete shall be provided in the AC pavement around the guardrail posts at the locations and dimensions specified on the manufacturer approved drawings. "Leaveout" material shall consist of a 1-sack grout mix or other non-cohesive material as approved by the engineer.



DETAIL B

Sheet 1 of 2
LAYOUT FOR SKT-350
2 FOUNDATION SOIL TUBES
(AC PAVEMENT)

This is the end treatment that was used on the project. This is noted in the summary sheet on page 16 of 75.

Note: PE stamp is not required on this sheet.
This is a Standard Drawing.

| | | | |
|--|----------|--|----------------|
| DESIGN APPROVED J.C. Cooper | | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL | |
| APPROVED FOR DISTRIBUTION Mary Viparina | | DETAIL SHEET DETAIL B | |
| ROUTE | LOCATION | ALLENTOWN RD - STATE LINE | |
| TRACS NO. H8781 01 C | | NH-040-E(218)T | SHEET 15 OF 62 |
| | | | 22 OF 75 |

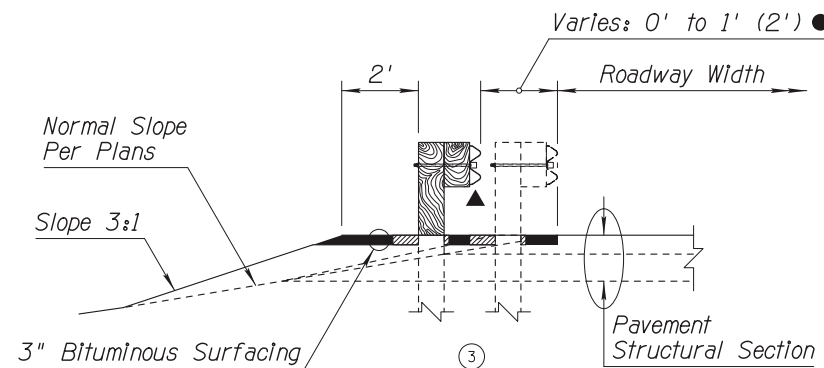
| NO | DESCRIPTION OF REVISIONS | MADE BY | DATE |
|----|---|---------|---------|
| 1 | REISSUED DRAWING WITH MODIFIED APPROACH TAPER | RLF | 5/22/07 |
| 2 | REVISED TITLE BLOCK NAME & DRAWING DATE | RLF | 7/09/09 |
| 3 | ADDED "LEAVEOUT" CALLOUT & NEW GENERAL NOTE 5 | RLF | 6/06/11 |
| 4 | | | |

Date: 6/06/11

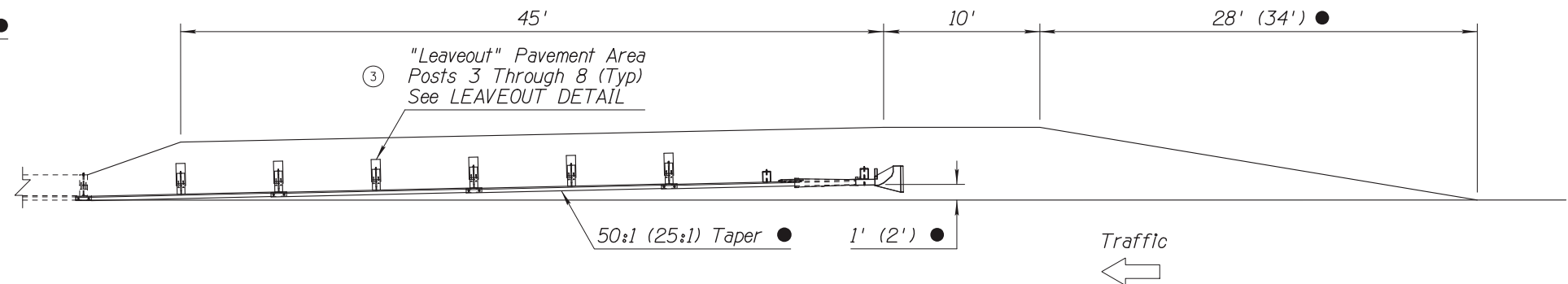
● FOR ELEVATIONS ABOVE 4,000 FT, USE THE VALUES IN PARENTHESES

▲ Top of Rail = 28"
See General Note 1
Std Dwg C-10.03

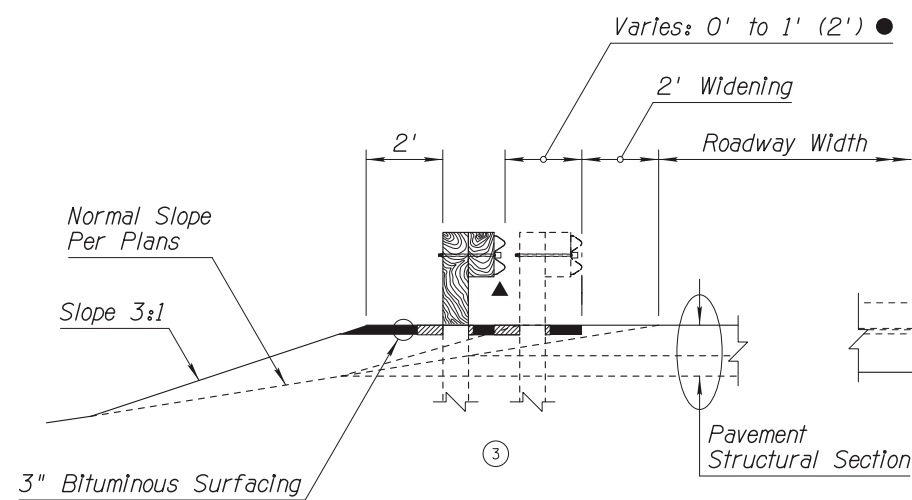
| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 16 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



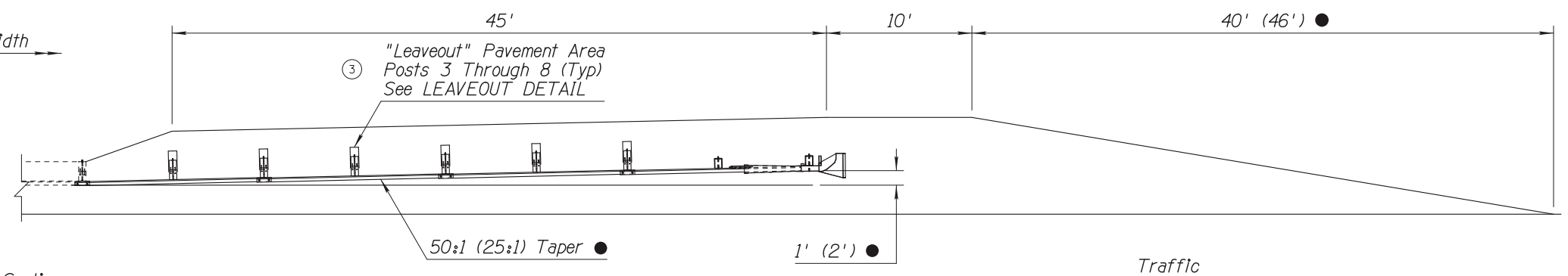
TYPE A SECTION



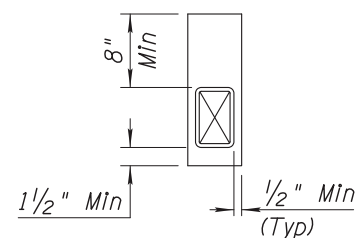
TYPE A GUARDRAIL INSTALLATION
(FACE OF RAIL AT EDGE OF PAVEMENT)



TYPE B SECTION



TYPE B GUARDRAIL INSTALLATION
(FACE OF RAIL OFFSET 2' FROM NORMAL EDGE OF PAVEMENT)



LEAVEOUT DETAIL

DETAIL B

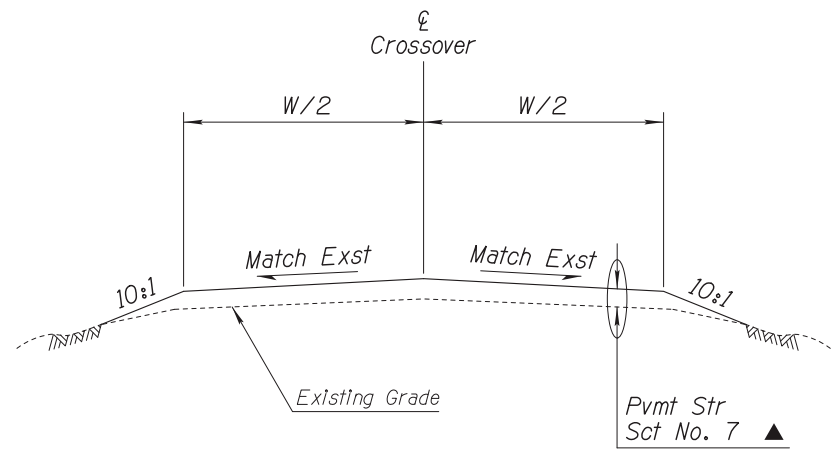
Sheet 2 of 2
LAYOUT FOR SKT-350
2 FOUNDATION SOIL TUBES
(AC PAVEMENT)

This is the end treatment
that was used on the
project. This is noted in
the summary sheet on
page 16 of 75.

Note: PE stamp is not
required on this sheet.
This is a Standard Drawing.

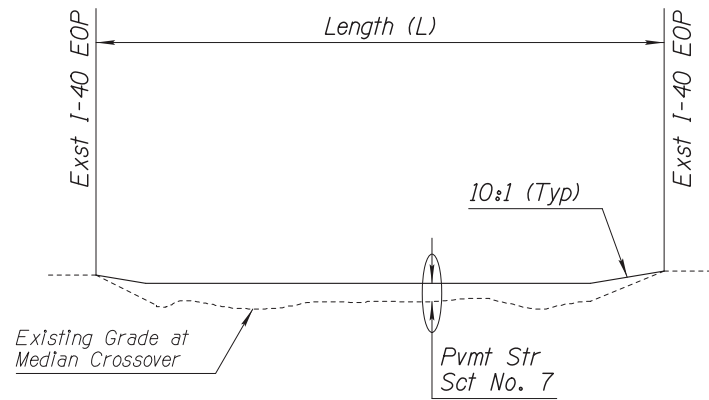
| | |
|---|--|
| DESIGN APPROVED J.C. Cooper | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY GROUP PLANS DETAIL |
| APPROVED FOR DISTRIBUTION Mary Viparina | DETAIL SHEET DETAIL B |
| ROUTE LOCATION ALLEN TOWN RD - STATE LINE | SHEET 16 OF 62 |
| TRACS NO. H8781 01 C | NH-040-E(218)T |

23 OF 75



SECTION A-A

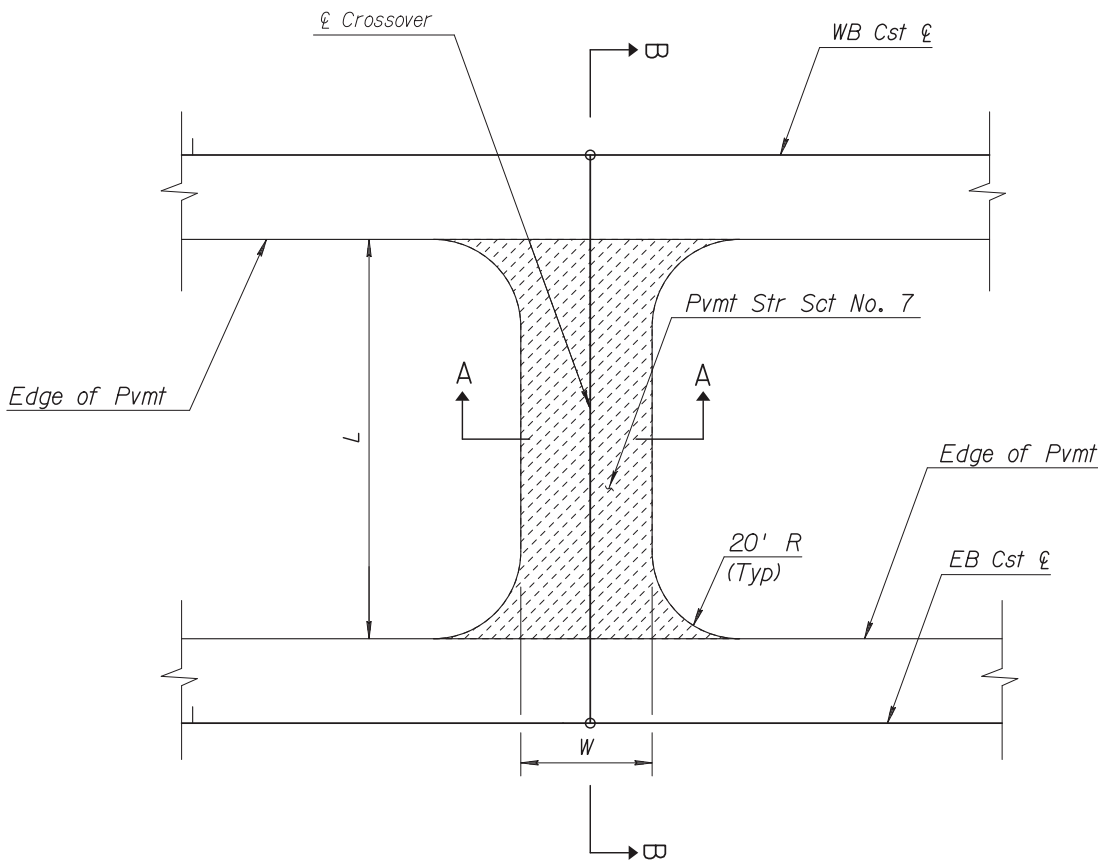
▲ Screen AC Millings to pass 1 - 1/2" screen prior to placement. See Special Provisions.



SECTION B-B

CROSSOVER SCHEDULE

| | Station | L | W | Area (SF) |
|---|---------|----|----|-----------|
| 1 | 2580+00 | 76 | 20 | 1,864 |
| 2 | 2700+85 | 76 | 20 | 1,864 |
| 3 | 2795+17 | 76 | 20 | 1,864 |
| 4 | 2874+69 | 76 | 20 | 1,864 |



PLAN

NOTE:

- Contractor shall match exst elevations at the edge of I-40 shoulder.
- Locations and dimensions above are approximate. Contractor shall verify measurements in the field.

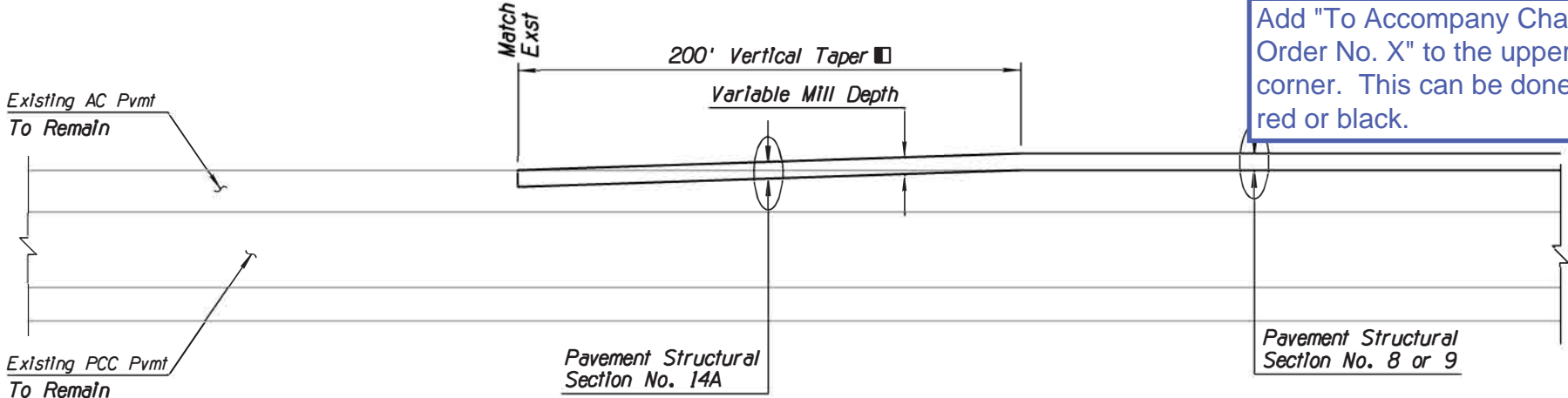
DETAIL C
MEDIAN CROSSOVERS

| | | | |
|---------|------------------------------------|-----|------------|
| REV NO. | LOCATION | BY | DATE |
| 1 | REVISED PHASING - EB ROADWAY FIRST | DBK | 07/21/2017 |

TO ACCOMPANY CHANGE ORDER NO. 1

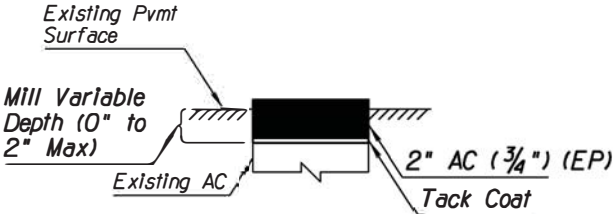
| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-C(225)T | 21A | 112 | 01/11/2019 |
| 040 CN 156 | | | | | |

NOTE:
See Dwg No. C-4.06 for notes.



Add "To Accompany Change Order No. X" to the upper right corner. This can be done in red or black.

TREATMENT AT BEGIN/END WB OVERLAY
(CONSTRUCTION PHASE 1B)



Total Thickness = 2"
SECTION NO. 14A

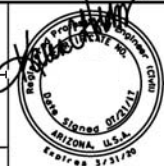
This sheet is a change order sheet that was added and did not replace another sheet in the plans.

This sheet requires a new seal, signature and date.

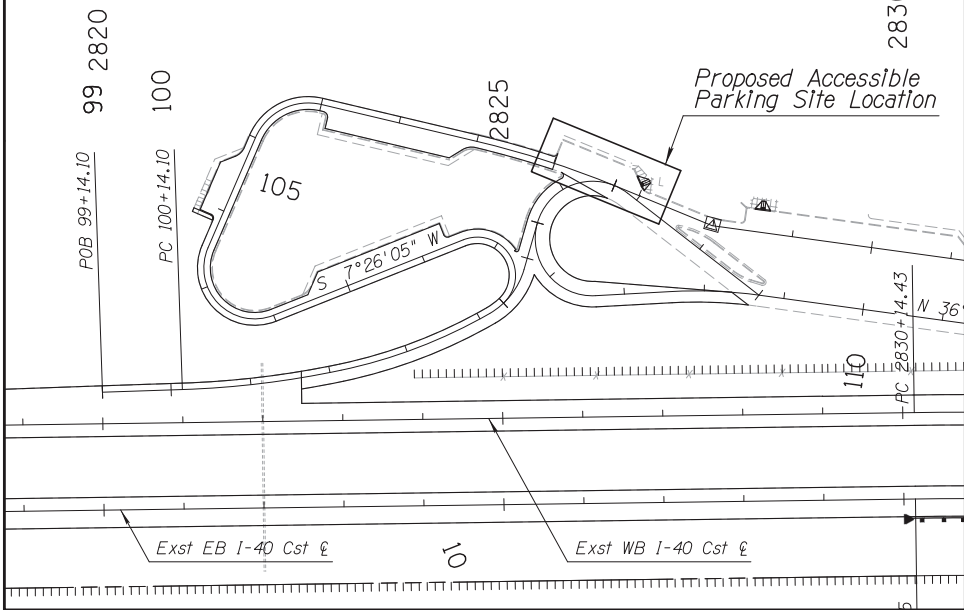
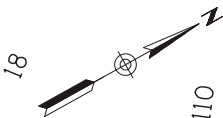
Cloud the title block and add the triangle with the addendum number. This must be done in red.

1

DETAIL C
Sheet 2 of 2
PAVEMENT TREATMENTS

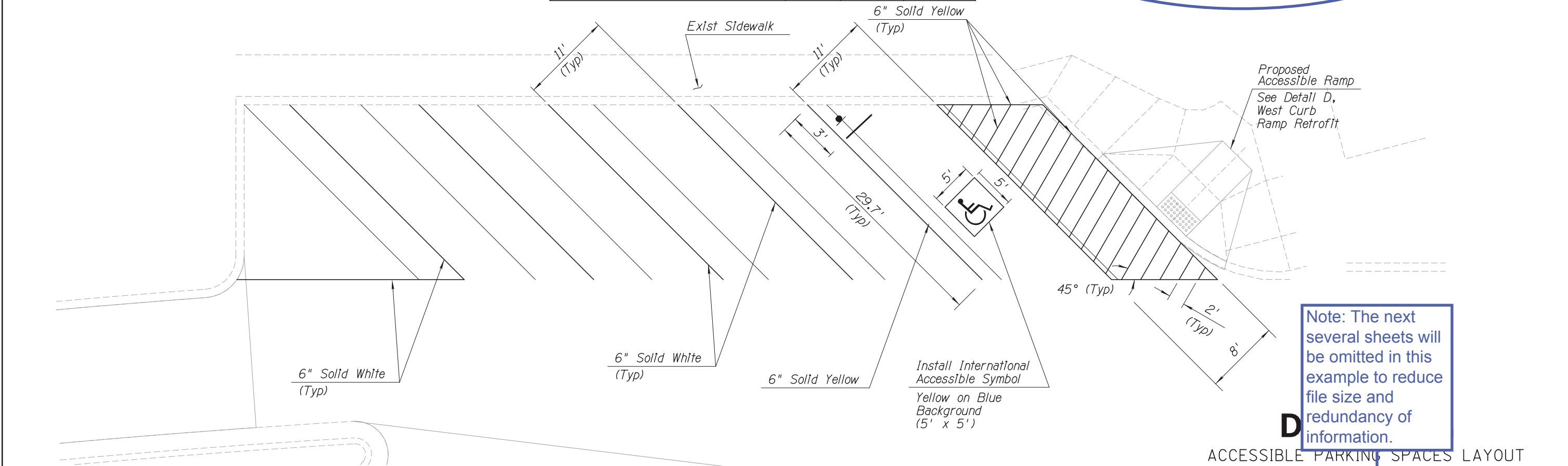
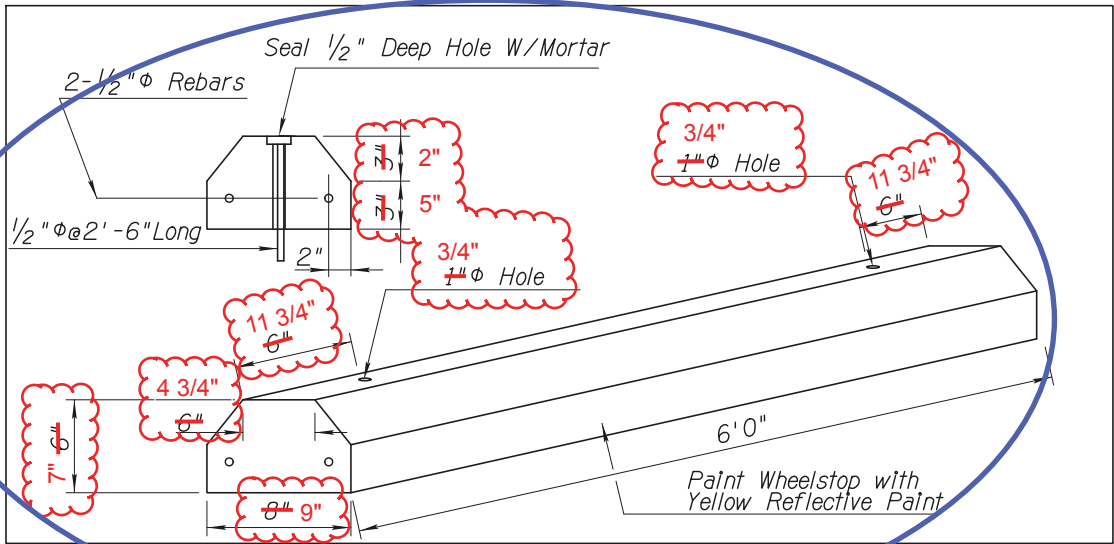
| | | | | | |
|---------------------|------------|----------|----------------------|--|---|
| DESIGN | DBK, RG | DATE | 05/17 | ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES |  |
| DRAWN | JK, ME, DS | DATE | 05/17 | | |
| CHECKED | KCH | DATE | 05/17 | | |
| Gannett Fleming | | | | DETAIL SHEET DETAIL C | |
| ROUTE | 1-40 | LOCATION | DEVIL DOG - WILLIAMS | | |
| TRACS NO. FOI31 OIC | | | 040-C(225)T | | |
| | | | 38 OF 172 | | |

PAINTED CLIFFS REST AREA



| Accessible Parking Approximate Quantities | | | |
|---|-------|----------|---------|
| Description | Unit | Quantity | Item No |
| Warning, Marker or Regulatory Sign Panel | SQ.FT | 3.00 | 6080005 |
| Sign post perforated | L.FT | 12.00 | 6070054 |
| Foundation for Sign Post (Concrete) | EACH | 1.00 | 6070060 |
| Miscellaneous Work (Wheelstop) | EACH | 1.00 | 9240119 |
| Dual Component Epoxy 4" White Equivalent Pavement Marking | L.FT | 390 | 7090001 |
| Dual Component Epoxy 4" Yellow Equivalent Pavement Marking | L.FT | 410 | 7090002 |
| Permanent Pavement Marking 4" White Equivalent Pavement Marking | L.FT | 195 | 7080001 |
| Permanent Pavement Marking 4" Yellow Equivalent Pavement Marking | L.FT | 275 | 7080011 |

WHEELSTOP DETAIL:



SYMBOL LEGEND:

| | |
|--|---|
| | New R7-8AZ 12" x 18" New R7-8P 18" x 12" Install new sign on square 2S type post. Install wheel stop in advance of the sign. |
| | Wheelstop |

| | | | | | |
|-----------------------------|----------|-------------------------|-------|--|----------------|
| DESIGN | SG | DATE | 12/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | DATE | 12/15 | | |
| CHECKED | HAO | DATE | 12/15 | | |
| PARSONS BRINCKERHOFF | | | | DETAIL SHEET DETAIL E | |
| ROUTE | LOCATION | ALLTOWN RD - STATE LINE | | | SHEET 19 OF 62 |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | 26 OF 75 |

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 29 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

TRAFFIC CONTROL GENERAL NOTES:

1. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications at no cost to the Department. All traffic control plans are subject to the approval of the Engineer before beginning construction.
2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer at no cost to the Department.
3. The contractor shall maintain two lanes of traffic on I-40 on weekends, holidays and as directed by the Engineer.
4. The contractor shall maintain traffic on a paved surface at all times.
5. All existing signs in conflict with the construction signs shall be removed, relocated or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer at no additional cost to the Department.
6. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
7. "WATCH FOR TRUCKS" signs shall be installed wherever truck ingress or egress is expected.
8. Use double fines signing when workers are present. See Figure SA-12 of the ADOT Traffic Control Design Guidelines 2010.
9. The retroreflective sheeting on all construction signs shall meet the minimum criteria established in Section 1007 of the Specifications.
10. All construction signs shall have black letters on a fluorescent orange background, except, as otherwise noted.
11. For signs installed on spring or rigid stands, sign mounting height shall be according to the sign manufacturer recommendation.
12. 2 flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type "A" flashing warning lights shall be required on all night time construction signs except the "END ROAD WORK THANK YOU" sign.
13. Construction signs shall not be displayed to traffic no more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after completion of the construction activities.
14. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway and covered or turned away from traffic.
15. Drums, Type 2 barricades and vertical panels shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on the plans.
16. The contractor may substitute Type 1 barricades for Type 2 barricades as long as the reflective area on the top panel of the Type 1 barricade is equivalent or greater than the reflective area of a Type 2 barricade.
17. For night work, a Type C steady-burning yellow light shall be mounted on every drum, Type 2 barricade, and vertical panel when used for channelization only.
18. During nighttime the contractor shall not utilize cones for channelization devices unless otherwise directed by the Engineer.
19. 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.

20. For temporary concrete barrier details, see Standard Drawing C-3. BM-1 (white) or BM-2 (yellow) barrier markers listed on the ADOT Approved Products List and conforming to Standard Drawings M-32 and M-33 shall be installed at 25 foot spacing. The installed price for the marker shall be considered a part of the barrier cost.
21. For sand barrel crash cushion details, see Standard Drawings C-1 and C-2.
22. All existing pavement markings in conflict with the traffic control striping plan shall be removed by methods approved by the Engineer. Painting over striping does not constitute stripe obliteration. For a daytime shift in traffic, the shift may be accomplished through channelizing devices with the existing pavement markings remaining in place.
23. No pavement marking obliteration work will be allowed on existing yellow pavement markings. The existing yellow left edge stripes shall be removed with the passing lane and ramp milling process (activities 2B and 2C).
24. When no longer required, temporary pavement markings shall be removed.
25. Existing pavement markers shall be removed when present along existing stripe obliteration at no cost to the Department.
26. The contractor shall clean the roadway surface to the satisfaction of the Engineer by sweeping and air-jet blowing, immediately prior to the placement of all temporary pavement markings. The roadway surface shall be dry.
27. At the completion of the new pavement surface each day, center lines, lane lines and stop bars shall be striped with one application of standard reflectorized traffic paint at the location of the permanent striping, or as directed by the Engineer.
28. All drawings are schematic only and not to scale. All dimensions are in feet, unless otherwise noted.
29. The contractor shall ensure the earthen material or aggregate base under the temporary sand barrel crash cushions, under the temporary concrete barrier and between the barrier and the roadway is 10:1 or flatter in each direction for setups off the pavement.
30. The Contractor shall provide flaggers and uniformed police officers (DPS) as directed by the Engineer during the installation, relocation or removal of Temporary Concrete Barrier.
31. For temporary concrete barrier markers, see ADOT Standard Drawing M-32 barrier markers. Markers shall be installed at 20 feet spacing. The installed price for the markers shall be the barrier cost.

This sheet is "X'd" out because it was replaced as part of an addendum. The next sheet shows the addendum # 1 in the upper right corner.

Note: If this sheet is available, please provide it with the "X" through the sheet as shown. The "X" does not need to be in red. Red or Black "X" on this sheet is acceptable. If the sheet is not available it is not necessary to include it in the record drawings. The addendum sheet (see next sheet) must be present.

Uniform Traffic Control Devices Part 6, Temporary Traffic Control, 2009 Edition as amended by the January, 2012 ADOT Supplement.
Traffic Control Design Guidelines, 2010.

| | | | | | |
|-----------------------------|------|----------|---------------------------|--|--|
| DESIGN | SG | NAME | DATE | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | | 01/16 | | |
| CHECKED | HAO | | 01/16 | | |
| PARSONS BRINCKERHOFF | | | | TRAFFIC CONTROL GENERAL NOTES | |
| ROUTE | I-40 | LOCATION | ALLENTOWN RD - STATE LINE | | |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | |
| | | | | SHEET 29 OF 62 | |
| | | | | 36 OF 75 | |

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ | 040-E(218)T | 29 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

TRAFFIC CONTROL GENERAL NOTES:

1. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications at no cost to the Department. All traffic control plans are subject to the approval of the Engineer before beginning construction.
2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer at no cost to the Department.
3. The contractor shall maintain traffic on I-40 on weekends and holidays as specified in Maintenance of Traffic sheets or as directed by the Engineer.
4. The contractor shall maintain traffic on a paved surface at all times.
5. All existing signs in conflict with the construction signs shall be removed, relocated or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer at no additional cost to the Department.
6. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
7. "WATCH FOR TRUCKS" signs shall be installed wherever truck ingress or egress is expected.
8. Use double fines as shown on SA-12 of the ADOT Traffic Control Design Guidelines.
9. The retroreflective material shall meet the minimum criteria established in Section 1007 of the Specifications.
10. All construction signs shall have black letters on a fluorescent orange background, except, as otherwise noted.
11. For signs installed on spring or rigid stands, sign mounting height shall be according to the sign manufacturer recommendation.
12. 2 flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type "A" flashing warning lights shall be required on all night time construction signs except the "END ROAD WORK THANK YOU" sign.
13. Construction signs shall not be displayed to traffic no more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after completion of the construction activities.
14. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway and covered or turned away from traffic.
15. Drums, Type 2 barricades and vertical panels shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on the plans.
16. The contractor may substitute Type 1 barricades for Type 2 barricades as long as the reflective area on the top panel of the Type 1 barricade is equivalent or greater than the reflective area of a Type 2 barricade.
17. For night work, a Type C steady-burning yellow light shall be mounted on every drum, Type 2 barricade, and vertical panel when used for channelization only.
18. During nighttime the contractor shall not utilize cones for channelization devices unless otherwise directed by the Engineer.
19. 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.


The addendum information is typically shown clouded with a triangle number. Because this was done before construction, this does not need to be shown in red.

TO ACCOMPANY ADDENDUM NO. XX must be shown. It does not need to be in red. Addendum's are typically inserted in the plans before construction begins.

20. For temporary concrete barrier details, see Standard Drawing C-3. BM-1 (white) or BM-2 barrier markers listed on the ADOT Approved Products List and conforming to Standard M-32 and M-33 shall be installed at 25 foot spacing. The installed price for the marker shall be considered a part of the barrier cost.
21. For barrel crash cushion details, see Standard Drawings C-1 and C-2.
22. Pavement markings in conflict with the traffic control striping plan shall be removed by methods approved by the Engineer. Painting over striping does not constitute obliteration. For a daytime shift in traffic, the shift may be accomplished through the use of devices with the existing pavement markings remaining in place.
23. No pavement marking obliteration work will be allowed on existing yellow pavement markings. The existing yellow left edge stripes shall be removed with the passing lane and ramp milling process (activities 2B and 2C).
24. When no longer required, temporary pavement markings shall be removed.
25. Existing pavement markers shall be removed when present along existing stripe obliteration at no cost to the Department.
26. The contractor shall clean the roadway surface to the satisfaction of the Engineer by sweeping and air-jet blowing, immediately prior to the placement of all temporary pavement markings. The roadway surface shall be dry.
27. At the completion of the new pavement surface each day, center lines, lane lines and stop bars shall be striped with one application of standard reflectorized traffic paint at the location of the permanent striping, or as directed by the Engineer.
28. All drawings are schematic only and not to scale. All dimensions are in feet, unless otherwise noted.
29. The contractor shall ensure the earthen material or aggregate base under the temporary sand barrel crash cushions, under the temporary concrete barrier and between the barrier and the roadway is 10:1 or flatter in each direction for setups off the pavement.
30. The Contractor shall provide flaggers and uniformed police officers (DPS) as directed by the Engineer during the installation, relocation or removal of Temporary Concrete Barrier.
31. For temporary concrete barrier markers, see ADOT Standard Drawing M-32 barrier markers. Markers shall be installed at 20 feet spacing. The installed price for the markers shall be considered part of the barrier cost.

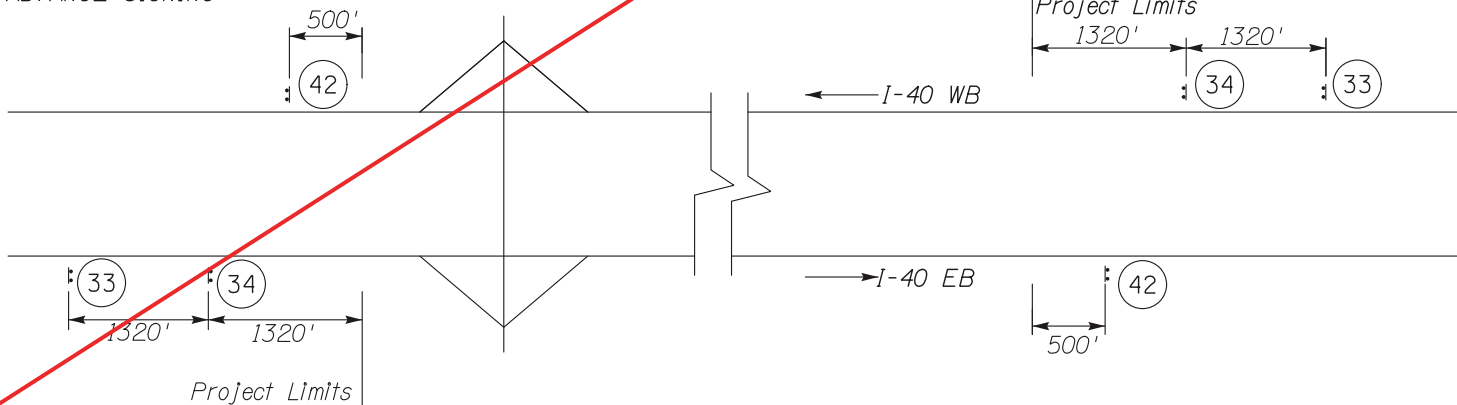
This sheet is the addendum sheet. This sheet replaces the original sheet. Addendum sheets must be included with the record drawings. If the original sheet is available, that sheet can be included with an "X" from corner to corner. If the original sheet is not available, it may be omitted. If there are more than one addendum's on a sheet, as long as the final addendum shows all of the information from the previous addendum's, the previous addendum's do not need to be included. If the final addendum sheet does not show the information from previous addendum's those additional addendum's must be included.

Devices Part 6, Temporary Traffic Control, 2009 Edition
ment.
es, 2010.

| | | | | | |
|-----------------------------|------|----------|---------------------------|---|---|
| DESIGN | SG | DATE | 01/16 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES |  |
| DRAWN | CPG | DATE | 01/16 | | |
| CHECKED | HAO | DATE | 01/16 | | |
| PARSONS BRINCKERHOFF | | | | TRAFFIC CONTROL GENERAL NOTES | |
| ROUTE | I-40 | LOCATION | ALLENTOWN RD - STATE LINE | Expires 03/31/16 | |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | 37 OF 75 |

| MAINTENANCE OF TRAFFIC | | | |
|------------------------|--|---|--|
| ACTIVITY NO | CONSTRUCTION ACTIVITY | TRAFFIC CONTROL | COMMENTS |
| 1 | Advance signs | Advance signs: "ROAD WORK (DATE) TO (DATE)" and "ROAD WORK NEXT 6 MILES" in advance of work zone. Provide "ROAD WORK AHEAD" sign on all ramps. | Signs are to remain in place for the duration of the project. The "ROAD WORK (DATE) TO (DATE)" sign should be installed at least 1 week before work begins. |
| 2A | Mill and replace ramps | Temporarily close ramp and detour traffic per Sheets 35, of these plans and Figure SA-10 of Traffic Control Design Guidelines (TCDG). Use detour on Sheet 36 for Lupton Rd TI Ramp Closure. | Night work only at Grant Rd/Lupton TI. Day time work only at other TI's. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2B | Mill and replace travel lane and outside shoulder | Maintain 1-lane traffic per Figure SA-5(R) of the Traffic Control Design Guidelines. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plans. | Maintain 2-lane traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2C | Mill and replace travel lane (12" pavement) and outside shoulder. Install Guard Rail | Maintain 1-lane traffic per sheet 34A. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plans. | Maintain 2-lane traffic on weekends and holidays. |
| 2D | Install Loop Counter System | Maintain 1-lane traffic per Figure SA-5(L) of the ADOT TCDG. Reduce speed to 45 mph. | Maintain 2-lane traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2E | Mill and replace passing lane (12" pavement) and inside shoulder. Install Guard Rail | Maintain 1-lane traffic per sheet 34B. Reduce speed to 45 mph. | Maintain 2-lane traffic on weekends and holidays. |
| 2F | Install Loop Counter System | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2G | Mill and replace cross roads | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Day time work only. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2H | Mill and replace Rest Area Approach Road | Maintain the traffic circulation inside the rest area. Work shall be phased such that there is access to parking spaces at all times. | Night time work only. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2H | Mill and replace rest area | | |

ADVANCE SIGNING



- NOTES:
1. Areas of milled pavement shall be replaced the same day with required depth of AC pavement per the applicable pavement structural sections in the entire areas milled. There shall be no uneven lanes at the end of a day.
 2. The order of construction activities does not constitute a sequence of construction. The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with the approval of the Engineer. Any modifications to these plans shall require review and approval by the Engineer.

42 G20-2AZ 48"X36"

33 See Sheet No. 37 For Detail

34 See Sheet No. 37 For Detail

| | | | | | |
|----------------------|-----|---------------------------|-------|--|--|
| DESIGN | SG | DATE | 01/16 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES TRAFFIC CONTROL PLAN MAINTENANCE OF TRAFFIC (1 OF 2) | |
| DRAWN | CPG | DATE | 01/16 | | |
| CHECKED | HAO | DATE | 01/16 | | |
| ROUTE | | LOCATION | | Exp. 03/31/16 | |
| I-40 | | ALLENTOWN RD - STATE LINE | | SHEET 30 OF 62 | |
| TRACS NO. H8781 01 C | | NH-040-E(218)T | | 38 OF 75 | |

DATE-02-14-2016
REVISIONS- REVISE MAINTENANCE OF TRAFFIC REMARKS
LOCATION-
NO. SURVEY NO.
DATE-
DESCRIPTION OF REVISIONS
FINISHED PLANS-
NO. SURVEY NO.
DATE-
DESCRIPTION OF REVISIONS
FINISHED PLANS-
NO. SURVEY NO.
DATE-
DESCRIPTION OF REVISIONS
FINISHED PLANS-

TO ACCOMPANY ADDENDUM NO. 1

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 30 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

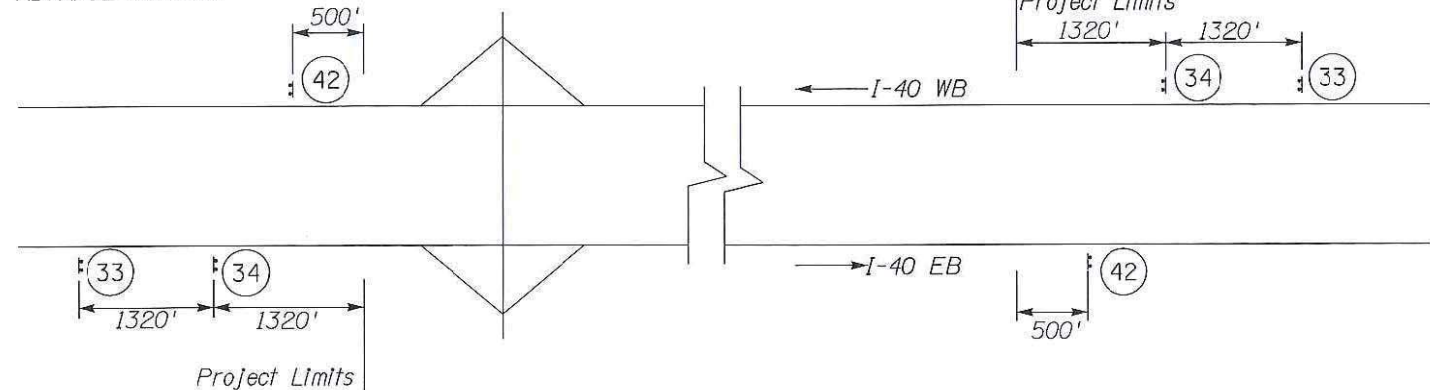
| MAINTENANCE OF TRAFFIC | | | |
|------------------------|---|--|--|
| ACTIVITY NO | CONSTRUCTION ACTIVITY | TRAFFIC CONTROL | COMMENTS |
| 1 | Advance signs | Provide specialty signs: "ROAD WORK (DATE) TO (DATE)" and "ROAD WORK NEXT 6 MILES" In advance of work zone. Provide "ROAD WORK AHEAD" sign on all ramps. | Signs are to remain in place for the duration of the project. The "ROAD WORK (DATE) TO (DATE)" sign should be installed at least 1 week before work begins. |
| 2A | Mill and replace ramps | Temporary traffic per Sheets 35, of these plans and Design Guidelines (TCDG). Use detour ramp Closure. | Night work only at Grant Rd/Lupton TI. Day time work only at other TI's. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2B | Mill and replace travel lane and outside shoulder Install Guard Rail Install Loop Counter System | Maintain traffic per Figure SA-5(R) of the Traffic Control Design Guidelines. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plans. | Maintain 2-lane traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2C | Mill and replace travel lane (12" pavement) and outside shoulder. Install Guard Rail Install Loop Counter System | Maintain 1-lane traffic per sheet 34A. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plans. | One lane in each direction will be permitted over the weekends (not holidays) as approved by the Engineer |
| 2D | Mill and replace passing lane and inside shoulder Install Guard Rail Install Loop Counter System | Maintain 1-lane traffic per Figure SA-5(L) of the ADOT TCDG. Reduce speed to 45 mph. | Maintain 2-lane traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2E | Mill and replace passing lane (12" pavement) and inside shoulder. Install Guard Rail Install Loop Counter System | Maintain 1-lane traffic per sheet 34B. Reduce speed to 45 mph. | One lane in each direction will be permitted over the weekends (not holidays) as approved by the Engineer |
| 2F | Mill and replace cross roads | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2G | Mill and replace Rest Area Approach Road | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Day time work only. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |
| 2H | Mill and replace rest area | Maintain the traffic circulation inside the rest area. Work shall be phased such that there is access to parking spaces at all times. | Night time work only. Maintain traffic on weekends and holidays. Pavement replacement must be completed in milled areas on the same day before opening to traffic (see Note 1 below). Setup is to be taken down whenever work is not under way. |

Another example of an addendum sheet.

NOTES:

1. Areas of milled pavement shall be replaced the same day with required depth of AC pavement per the applicable pavement structural sections in the entire areas milled. There shall be no uneven lanes at the end of a day.
2. The order of construction activities does not constitute a sequence of construction. The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with the approval of the Engineer. Any modifications to these plans shall require review and approval by the Engineer.

ADVANCE SIGNING



42 G20-2AZ 48"X36"

33 See Sheet No. 37 For Detail

34 See Sheet No. 37 For Detail

| | | | | |
|-----------------------------|------|----------|---------------------------|---|
| DESIGN | SG | NAME | DATE | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES |
| DRAWN | CPG | | 01/16 | |
| CHECKED | HAO | | 01/16 | |
| PARSONS BRINCKERHOFF | | | | TRAFFIC CONTROL PLAN MAINTENANCE OF TRAFFIC (1 OF 2) |
| ROUTE | 1-40 | LOCATION | ALLENTOWN RD - STATE LINE | Expires 03/31/16 |
| TRACS NO. H8781 01 C | | | | SHEET 30 OF 62 |
| NH-040-E(218)T | | | | 39 OF 75 |


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

| | | | | | |
|--------------------|-------|-------------|--------------|-----------------|----------------|
| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
| 9 | ARIZ. | 040-E(218)T | 31 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

| MAINTENANCE OF TRAFFIC | | | |
|------------------------|--------------------------------------|--|---|
| ACTIVITY NO | CONSTRUCTION ACTIVITY | TRAFFIC CONTROL | COMMENTS |
| 3 | Bridge rail work | Close adjacent lane per Sheets 33, 34 of these plans. Protect work zone with TCB. Reduce speed to 45 mph. | Day time work only. Maintain traffic on weekends and holidays. All bridge rail work shall be constructed on one side of freeway at a time. |
| 4A | AR-ACFC Ramps | Temporarily close ramp and detour traffic per Sheet 35 of these plans and Figure SA-10 of ADOT TCDG. Use detour on Sheet 36 for Lupton Rd TI Ramp Closure. | Night work only at Grant Rd/Lupton TI. Day time work only at other TI's. Maintain traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 4B | AR-ACFC overlay travel lane | Maintain 1-lane traffic per Figure SA-5(R) of the Traffic Control Design Guidelines. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheet 35, 36 of these plans. | Maintain 2-lane traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 4C | AR-ACFC overlay passing lane | Maintain 1-lane traffic per Figure SA-5(L) of the ADOT TCDG. Reduce speed to 45 mph. | Maintain 2-lane traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 4D | Apply Fogcoat on the cross roads | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Maintain 2-lane traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 4E | Fogcoat Rest Area Approach Road | Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10. | Day time work only. Maintain traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 4F | Fogcoat Rest Area | Maintain the traffic circulation in the rest area. Work shall be phased such that there is access to parking spaces at all times. | Night time work only. Maintain traffic on weekends and holidays. Setup is to be taken down whenever work is not under way. |
| 5 | Permanent Striping | Mobile operation per Figure SA-18 of ADOT TCDG. | |
| 6 | Rumble strips and miscellaneous work | Provide traffic control per MUTCD TA-4. | on whenever work is not under way. |

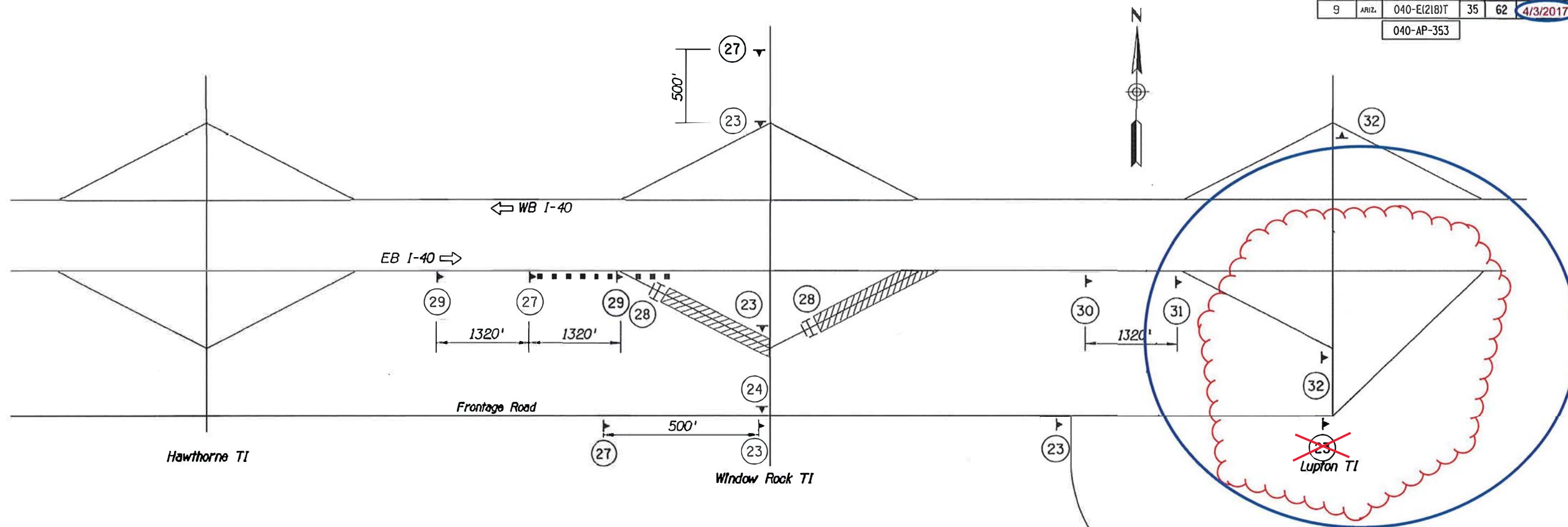
Note: The next several sheets will be omitted in this example to reduce file size and redundancy of information.

Note:
The order of construction activities does not constitute a sequence of construction. The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with the approval of the Engineer. Any modifications to these plans shall require review and approval by the Engineer.

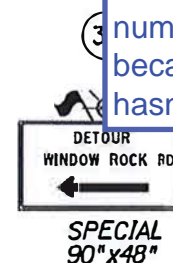
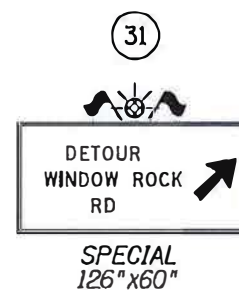
| | | | | | |
|----------------------|-----|---------------------------|-------|--|---|
| DESIGN | SG | DATE | 01/16 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES TRAFFIC CONTROL PLAN MAINTENANCE OF TRAFFIC (2 OF 2) |  |
| DRAWN | CPG | DATE | 01/16 | | |
| CHECKED | HAO | DATE | 01/16 | | |
| ROUTE | | LOCATION | | Expires 03/31/16 | |
| I-40 | | ALLENTOWN RD - STATE LINE | | SHEET 31 OF 62 | |
| TRACS NO. H8781 01 C | | NH-040-E(218)T | | 40 OF 75 | |

DATE: 04/01/16
MADE BY: SG
LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 35 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |



SIGN LEGEND:



NOTES:

1. Typical crossroad TI ramp closure is shown. Use similar setup for westbound ramp closures. Use the setup for Hawthorne TI and Window Rock TI. Use Sheet 36 for Lupton TI Detour.
2. Ramps shall be closed only in one direction at a time at each TI.
3. Two consecutive entrance or exit ramps shall not be closed at the same time.
4. All M1-1a signs shall be white on red and blue.

This sheet is marked up due to a change order. The change order number and triangle are not required because this is the original sheet, it hasn't been re-issued.

Note: The next several sheets will be omitted in this example to reduce file size and redundancy of information.

SYMBOL LEGEND:

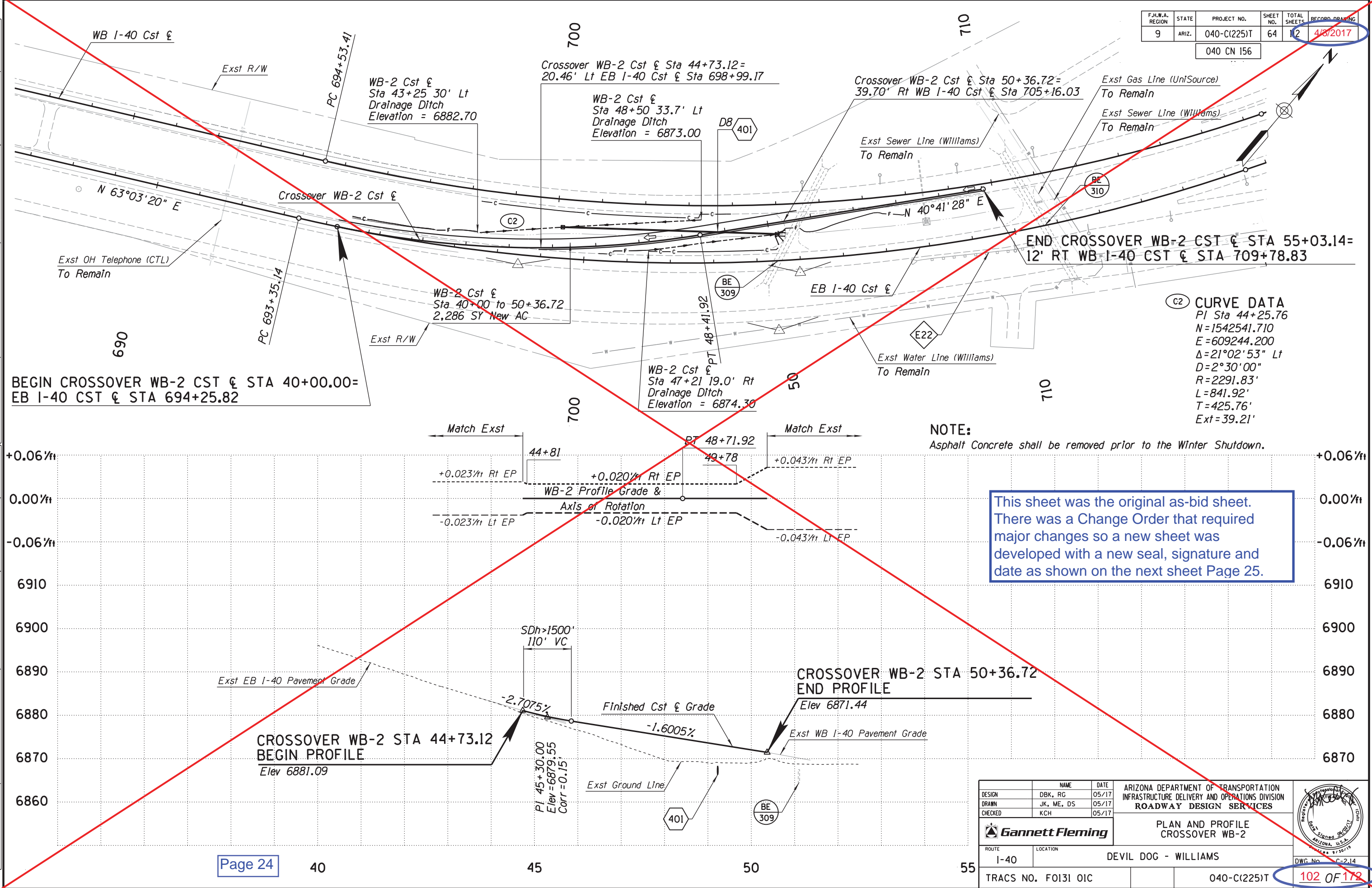
| | |
|---|----------------------------|
| ▶ | Sign on Spring Stand |
| ■ | Sign on Rigid Stand |
| ■ | Type II Barricade |
| ■ | Type III Barricade w/ Sign |
| ⏏ | Flashing Arrow Panel |
| ➡ | Direction of Travel |
| ▨ | Work Zone |

| | | | |
|-----------------------------|---------------------------|----------------|----------|
| DESIGN | SG | DATE | 01/16 |
| DRAWN | CPG | DATE | 01/16 |
| CHECKED | HAO | DATE | 01/16 |
| PARSONS BRINCKERHOFF | | | |
| ROUTE | I-40 | | |
| LOCATION | ALLENTOWN RD - STATE LINE | | |
| TRACS NO. | H8781 01 C | NH-040-E(218)T | 47 OF 75 |

ARIZONA DEPARTMENT OF TRANSPORTATION
INTERMODAL TRANSPORTATION DIVISION
ROADWAY DESIGN SERVICES
TRAFFIC CONTROL
TEMPORARY RAMP CLOSURES
TYPICAL DETAIL
Expires: 03/31/16
SHEET 35 OF 62

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-C(225)T | 64 | 12 | 4/3/2017 |

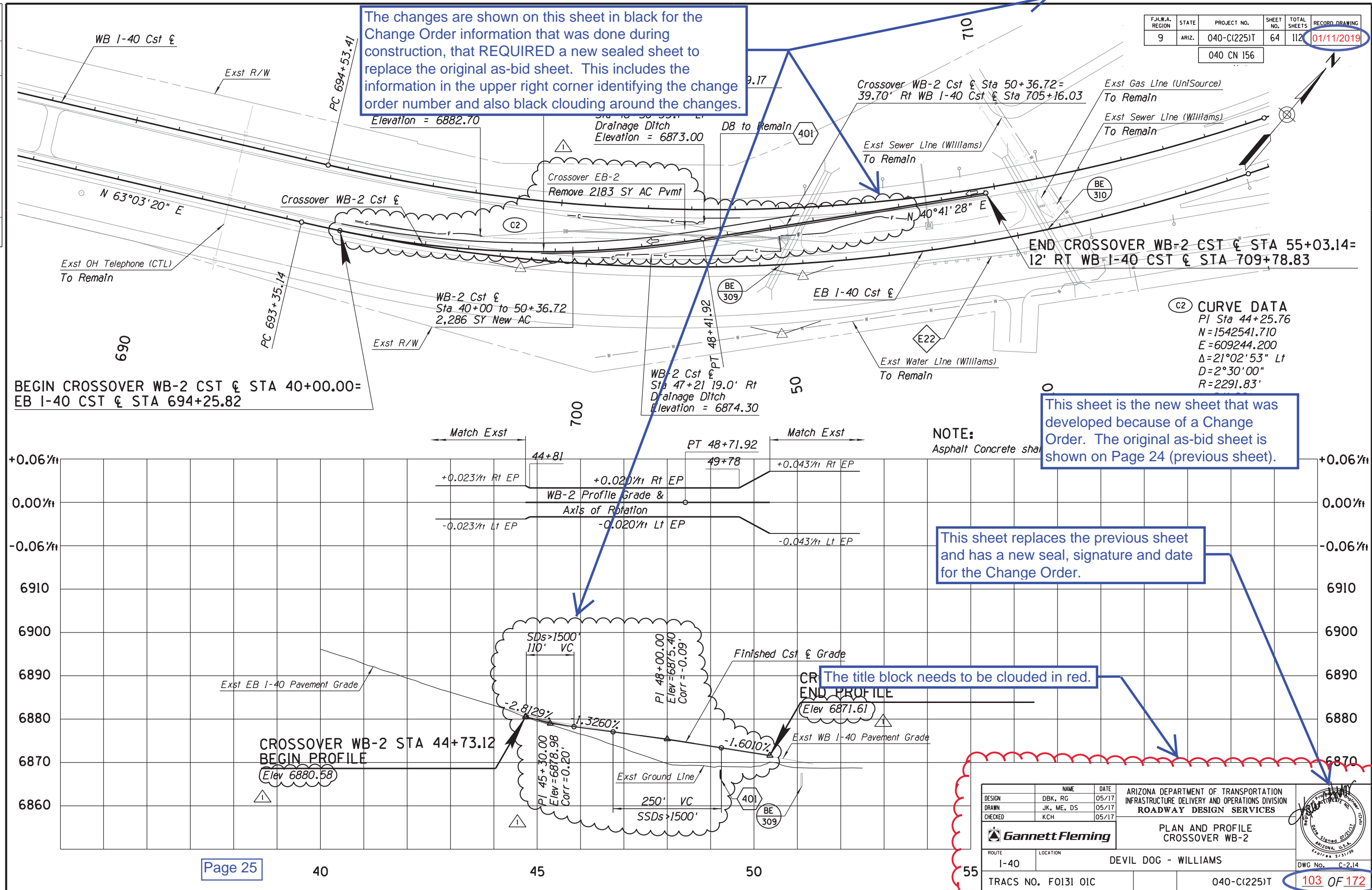
040 CN 156



This sheet was the original as-bid sheet. There was a Change Order that required major changes so a new sheet was developed with a new seal, signature and date as shown on the next sheet Page 25.

| | | | | | |
|---------------------|------------|-------|-------|--|--|
| DESIGN | DBK, RG | DATE | 05/17 | ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | JK, ME, DS | 05/17 | | | |
| CHECKED | KCH | 05/17 | | | |
| Gannett Fleming | | | | PLAN AND PROFILE CROSSOVER WB-2 | |
| ROUTE | LOCATION | | | DEVIL DOG - WILLIAMS | |
| I-40 | | | | DWG. No. C-2.14 | |
| TRACS NO. FO131 OIC | | | | 040-C(225)T 102 OF 172 | |

The changes are shown on this sheet in black for the Change Order information that was done during construction, that REQUIRED a new sealed sheet to replace the original as-bid sheet. This includes the information in the upper right corner identifying the change order number and also black clouding around the changes.



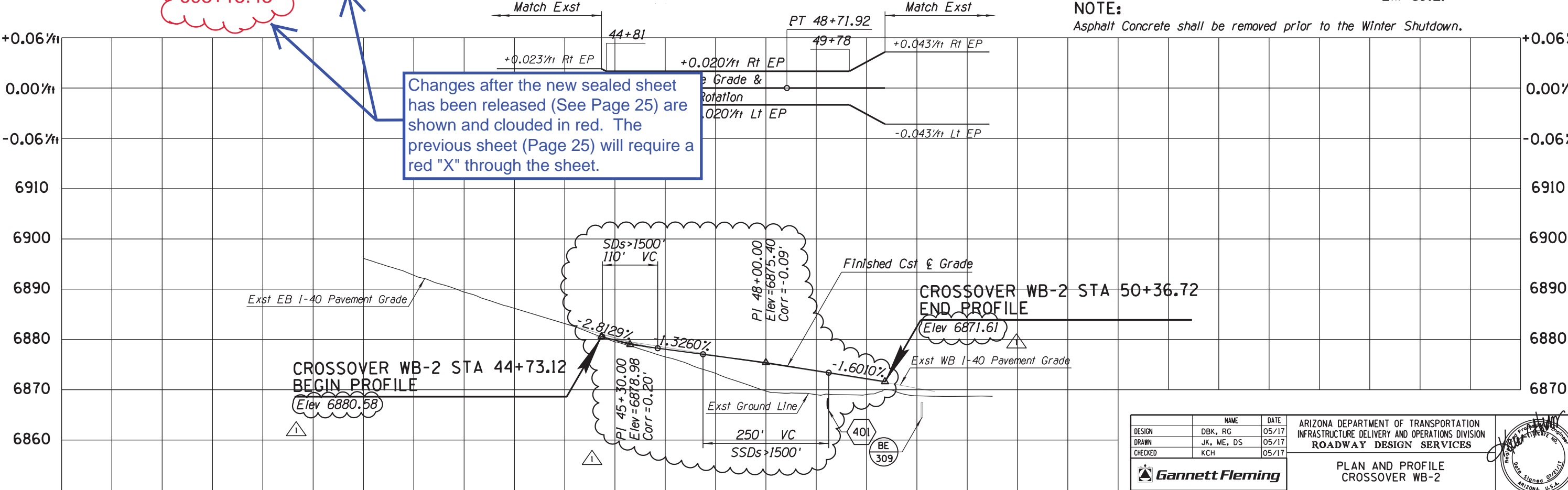
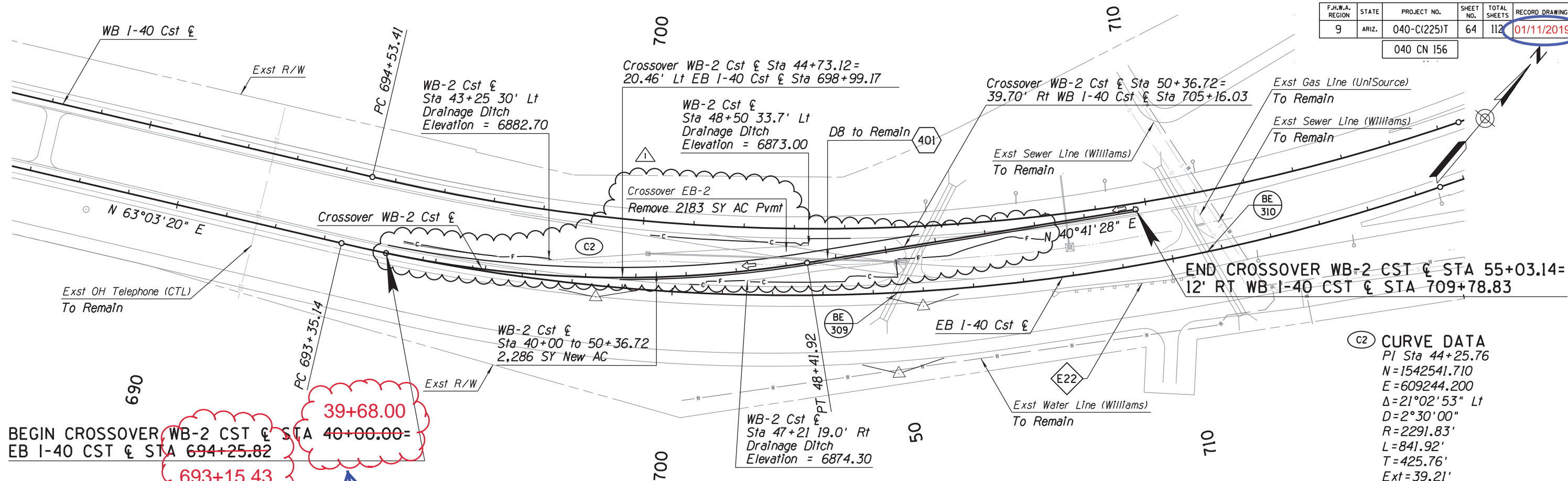
This sheet is the new sheet that was developed because of a Change Order. The original as-bid sheet is shown on Page 24 (previous sheet).

This sheet replaces the previous sheet and has a new seal, signature and date for the Change Order.

☞ The title block needs to be clouded in red.

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-C(225)T | 64 | 112 | 01/11/2019 |

040 CN 156



Changes after the new sealed sheet has been released (See Page 25) are shown and clouded in red. The previous sheet (Page 25) will require a red "X" through the sheet.

NOTE: Asphalt Concrete shall be removed prior to the Winter Shutdown.

| | | | | |
|---------------------|------------|----------|----------------------|--|
| DESIGN | DBK, RG | DATE | 05/17 | ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SERVICES |
| DRAWN | JK, ME, DS | 05/17 | | |
| CHECKED | KCH | 05/17 | | |
| Gannett Fleming | | | | PLAN AND PROFILE CROSSOVER WB-2 |
| ROUTE | I-40 | LOCATION | DEVIL DOG - WILLIAMS | DWG No. C-2.14 |
| TRACS NO. FO131 OIC | | | | 040-C(225)T 103 OF 172 |

GENERAL PAVEMENT MARKING NOTES:

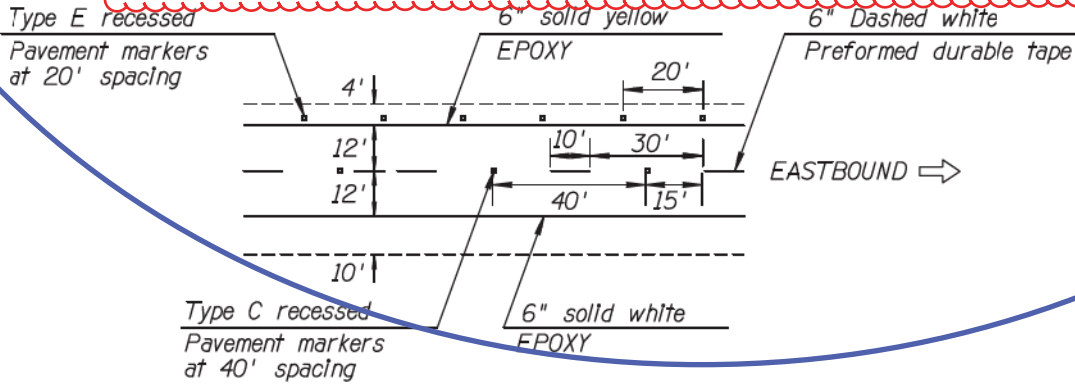
1. All striping shall be in compliance with the current ADOT Signing and Marking Standard Drawings and the Manual on Uniform Traffic Control Devices (MUTCD 2009 Edition as amended by the January 2012 ADOT Supplement).
2. The pavement marking details are schematic only and not to scale. The contractor shall follow all dimensions, details and standards when installing pavement markings and markers.
3. See the following ADOT standard drawings for striping details: M-15, M-16, M-18 and M-19.
4. All dimensions are in feet unless otherwise noted on the plans or the detailed drawings.
5. All striping dimensions are to the face of curb or edge of pavement, unless otherwise noted.
6. 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.
7. The permanent pavement marking layout may be modified as directed by the Engineer.
8. It is the contractor's responsibility to develop an "as-built" plan of the existing striping and have the plan approved by the Engineer before any construction activities.
9. At the completion of the final pavement surface each day, edge lines, center lines, lane lines, and stop bars covered by the new pavement shall be striped with one application of 4" wide standard reflectorized traffic paint at the location of the permanent striping. The paint shall have a maximum thickness of 15 mils wet (10 mils dry).
10. It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset one foot clear of the construction joint, unless otherwise directed by the Engineer.
11. The contractor shall be responsible for the layout and installation of permanent pavement markings on the final surface course following control points that have been set no more than 50 feet apart along the lines to be striped.
12. 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. The air and pavement temperatures shall not be less than 40°F and the air temperature wind chill factor shall not be less than 35°F for the placement of epoxy pavement marking.
13. The final striping shall be two-part epoxy pavement marking placed at a minimum of 30 calendar days after completion of initial striping, or as directed by the Engineer. All other markings shall be applied at the same time. The two-part epoxy material shall conform to the specifications.
14. Freeway arrows shall be installed in accordance with Std Dwg M-12.
15. All final stop bars, pavement arrows, and transverse lines shall be two-part epoxy pavement markings.
16. All pavement markers shall have an abrasion-resistant coating on the face of the prismatic reflectors and shall conform to the details of Standard Drawing Number M-19. They shall be installed with a bituminous adhesive which is on the ADOT Approved Products List.
17. Where pavement markers are placed along solid striping, the nearest edge of each marker shall be offset from the nearest edge of the striping. Recessed pavement markers placed between double yellow striping shall be centered in the 6 inch gap between the lines.
18. All 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 pavement markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow. Type E pavement markers shall be installed so that the yellow reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.
19. The Contractor shall install ground-in rumble strips wherever the existing rumble strip is obliterated by milling or overlay work, except on concrete surfaces or on bridges with less than a half inch of AR-ACFC. The ground-in rumble strips shall conform to the details shown on Std Dwg M-22.

| F.H.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 38 | 62 | 4/3/2017 |

040-AP-353

20. The Contractor shall delineate all new guard rail end treatments in accordance with Std Dwg M-34. There shall be no measurement or payment for the guard rail end treatment delineation.
21. The Contractor shall preserve all signs, roadway object markers, milepost markers and delineators and replace those signs, markers and delineators damaged as a result of the construction at the Contractor's expense.
22. All dashed lane lines and solid gore lines shall be preformed durable tape, see Special Provisions.

| APPROXIMATE PAVEMENT MARKING QUANTITIES | | | | | |
|---|--------------------|--------|----------|---------------|----------|
| Description | | Unit | Quantity | 4" Equivalent | Item No. |
| Permanent pavement marking (painted) | 4" white | L.F.T. | 80,025 | 271,115 | 7080001 |
| | 4" yellow | L.F.T. | 63,437 | 122,875 | 7080011 |
| | Parking symbol | EACH | 2 | | 7080111 |
| Dual component EPOXY pavement marking | 6" white | L.F.T. | 83,140 | 124,710 | 7090001 |
| | 6" yellow | L.F.T. | 78,586 | 117,890 | 7090002 |
| Dual component EPOXY transverse pavement marking | 18" white | L.F.T. | 216 | 972 | 7090005 |
| | Freeway arrow | EACH | 8 | | 7090012 |
| | Parking symbol | EACH | 2 | | 7090012 |
| Pavement Marker | Type C, recessed | EACH | 1,585 | | 7060100 |
| | Type D, recessed | EACH | 150 | | 7060101 |
| | Type E, recessed | EACH | 3,080 | | 7060102 |
| Ground-in rumble strip | 12" | L.F.T. | 126,720 | | 9280037 |
| Delineator (Flexible with concrete foundation) | Single white | EACH | 194 | | 7030026 |
| | Single yellow | EACH | 72 | | 7030026 |
| | Double white | EACH | 8 | | 7030026 |
| | 360° white | EACH | 48 | | 7030026 |
| | 360° Double yellow | EACH | 24 | | 7030026 |
| Object marker | (M-23) (Type 2) | EACH | 5 | | 7030082 |
| Preformed durable tape | 6" white | L.F.T. | 15,820 | 23,730 | 7050022 |
| | 12" white | L.F.T. | 9,750 | 29,250 | 7050022 |
| Sawcut Groove for Striping (Diamond Blade) | 6" White | L.F.T. | 17,401 | 28,364 | 9240210 |
| (Grooves are 1/2" Wider & 1 foot longer than recessed stripe) | 12" White | L.F.T. | 10,725 | 33,569 | 9240210 |



TYPICAL STRIPING DETAIL

| | | | | | |
|-----------------------------|------|------|-------|--|--|
| DESIGN | SG | DATE | 01/16 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | |
| DRAWN | CPG | DATE | 01/16 | | |
| CHECKED | HAO | DATE | 01/16 | | |
| PARSONS BRINCKERHOFF | | | | PAVEMENT MARKING QUANTITIES AND GENERAL NOTES | |
| ROUTE | I-40 | | | LOCATION | |
| ALLENTOWN RD - STATE LINE | | | | | |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | |
| | | | | SHEET 38 OF 62 | |
| | | | | 51 OF 75 | |

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

I. PROJECT DESCRIPTION

- A. Owner Name, Address and IRS Employee Identification Number (EIN):
Arizona Department of Transportation
205 South 17th Avenue
Phoenix, Arizona 85007-3213
- IRS Employee Identification Number (EIN) for ADOT: 86-6004791
- B. Project TRACS Number: H8781 01 C
- C. Project Location: I-40 & Allentown Rd
City: Lupton County: Apache
- Beginning Latitude (NAD 83): 35° 17' 38.4" N
Beginning Longitude (NAD 83): 109° 08' 41.5" W
Ending Latitude (NAD 83): 35° 21' 47.5" N
Ending Longitude (NAD 83): 109° 02' 47.0" W

- D. Project Description: Pavement preservation on and off Ramps and Cross Roads at Three TI's Guardrail Installation, curb embankment replacement and bridge railing replacement, spillway replacement

II. HYDROLOGIC INFORMATION

- A. Project Size:
Length (Mi.): 5.81
Area (Ac.): 288.74
- B. Area to be Graded (Ac.): * 1.45
* 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: 22.8%
Percentage after Construction: 22.8%
- D. Receiving Water(s), refer to the Arizona Department of Water Resources Web Link below (USGS Topo):
<https://qlsweb.azwater.gov/WellRegistry/Default.aspx>

III. PRESERVATION

- A. In accordance with existing vegetation clearing limits that require outside the boundary area shall be construction the area to be and protected

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 SWPPP Site Plan and Specifications)
- ☐ Erosion Control Matting
 - ☐ Temporary Diversion Dikes
 - ☐ Check Dams
 - ☐ Rock Inlet/Outlet Protection
 - ☐ Sediment Control Berms
 - ☒ Silt Fences
 - ☒ Wattles (Excelsior/Straw)
 - ☐ Excelsior Logs / Sediment Logs
 - ☐ Seeding (Class II with mulch)
 - ☒ Others Describe: _____

Construction Entrance

- 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
- ☒ 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:
Regular Inspection Frequency: _____
☐ At least once every 7 calendar days (weekly), OR
☐ 4 calendar days (biweekly) and within 24 hours of a rainfall of 0.25 in. or greater.
☐ (Sensitive) Waters Inspections: _____
☐ 4 calendar days and within 24 hours of a rainfall of 0.25 in. or greater.
- NOTE TO BE KEPT ON-FILE: DEPTH OF RAINFALL

- B. Inspection Procedure:
ADOT's Contractor's Inspection Log and Compliance Evaluation Report (CER) will be completed by the contractor or 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 completed within 24 hours of the inspection report.

Typically if more than 1 acre is being disturbed or graded, Part 2 of the SWPPP sheet needs to be filled in. If this information is not available or is not required, an "X" through Part 2 of this sheet needs to be placed in red to indicate the information was not provided, available or not required.

Note: The remaining sheets have been omitted in this example to reduce file size and redundancy of information.

PART 2 - To be completed by ADOT & CONTRACTOR

Refer to: <http://cfpub.epa.gov/npdes/stormwater/msgpenol.cfm>
<http://cfpub.epa.gov/npdes/stormwater/swppp.cfm#guide>

| F.A.W.A. REGION | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS | RECORD DRAWING |
|-----------------|-------|-------------|-----------|--------------|----------------|
| 9 | ARIZ. | 040-E(218)T | 39 | 62 | 4/3/2017 |
| 040-AP-353 | | | | | |

I. SCHEDULE OF MAJOR ACTIVITIES

- A. Project Schedule: See SWPPP
- Start Date: 4/11/2016
End Date: 8/14/2017
- 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
 - ☒ Paints
 - ☒ Herbicides
 - ☒ Fuel
 - ☒ Others, List: _____
 - ☒ Asphalt
 - ☒ Fertilizer
 - ☒ Wood
 - ☒ Oil

III. POLLUTION CONTROL MEASURES

- A. Other Best Management Practices:
- ☒ Wind Erosion and Dust Control
 - ☒ Solid Waste Management
 - ☒ Equipment Maintenance Procedures
 - ☒ Designated Concrete Washout Areas (Leak proof pits/containers are included.)
 - ☒ 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 stormwater, 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 NPDES should sign the SWPPP in accordance with CGP Part 7.2.15 and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours.
Signature: (operator/contractor) Andrew Rice
Date: 3/23/2016
Name: Andrew Rice
Title: Environmental Director
ADOT District: Fann Contracting, Inc.
- C. ADOT Resident Engineer
Signature: (owner) [Signature]
Date: 04/13/16
Name: Carol Brinkerhoff
Title: General Resident Engineer
ADOT District: Northwest
- D. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4)
Signature: _____
Date: _____
Name: _____
Title: _____
Municipality: _____

VII. OTHER REQUIREMENTS

- A. A copy of the General Permit and NOI should be attached.
- B. A copy of the page from the environmental clearance for the project that discusses endangered or threatened species should be attached.
- C. Use the process in NPDES General Permit Appendix C (ESA Review Procedures) to determine eligibility prior to submittal of the Notice of Intent (NOI) for Endangered and Threatened Species and Critical Habitat Protection.
- D. A seven-day waiting/review period between NOI submittal and authorization to begin construction will be used by U.S. Fish and Wildlife Service and National Marine Fisheries Service to screen proposed construction activities for potential impacts on endangered species.

| | | | | | | |
|-----------------------------|-------------------------|------|-------|---|-------------------------|---|
| DESIGN | ACH | DATE | 10/15 | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES | NPDES SWPPP INDEX SHEET |  |
| DRAWN | CPG | DATE | 10/15 | | | |
| CHECKED | BGS | DATE | 10/15 | | | |
| PARSONS BRINCKERHOFF | | | | NPDES SWPPP INDEX SHEET | | |
| ROUTE | LOCATION | | | Expires 6/30/16 | | |
| I-40 | ALLENTOWN RD STATE LINE | | | SHEET 39 OF 62 | | |
| TRACS NO. H8781 01 C | | | | NH-040-E(218)T | | |
| | | | | 52 OF 75 | | |