

STATE OF ARIZONA  
DEPARTMENT OF TRANSPORTATION  
INTERMODAL TRANSPORTATION DIVISION  
ROADWAY ENGINEERING



**2010**  
**DRAFTING GUIDES**  
FOR USE IN  
**OFFICE AND FIELD**

STATE OF ARIZONA  
DEPARTMENT OF TRANSPORTATION  
INTERMODAL TRANSPORTATION DIVISION  
ROADWAY ENGINEERING



**2010**  
**DRAFTING GUIDES**  
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NO.	DESCRIPTION OF REVISION	
NO.	DESCRIPTION OF REVISION	

CONTENTS

1-1 GENERAL

- 1-1.1 Introduction
- 1-1.2 Standards

1-2 SHEET PREPARATION

- 1-2.1 General
- 1-2.2 Drawing Format Order
- 1-2.3 General Drafting Practices

1-1 GENERAL

1-1.1 Introduction

The "Drafting Guide for use in Office and Field" is intended for use by both State and consultant design personnel. It shall be used as a guideline and not as the sole source of information to which design personnel are restricted. The goal of these Drafting Guides is to maintain consistency and uniformity in the appearance of the prepared project plans.

This guide was created to assist design personnel in the preparation of the plans through the use of the CADD system. This is due to the commitment of Roadway Design to utilize the CADD system for all of the drafting required for the construction project plans.

The Department realizes certain plans may be prepared using manual methods. This version of the Drafting Guides does not address manual preparation of project plans. To do so, refer to the 1990 Drafting Guides for manual preparation of the construction project plans.

Each sample drawing has a reference sheet on which typical drafting parameters used in the preparation of the drawing are identified. It will also refer to any related drawings within the Drafting Guides. Additional design, supporting the information shown on the sample drawing, is included on the corresponding reference sheet.

The Drafting Guides cover a number of individual plan and detail sheets which may be included in a set of project plans. It is intended to present a variety of samples covering different project types and requirements. This edition, however, is not able to cover everything which may be necessary; because of this limitation, the Drafting Guides will be updated periodically with modifications and/or additions.

These guides are to be used in conjunction with the ADOT CADD Standards. The "Drafting Guides for use in Office and Field", and updates, will be distributed on the Roadway Design web site.

1-1.2 Standards

The project plans shall be clear, complete and concise. Accurate, complete and easily understood plans provide the contractor with the means to construct the project. This goal can be met through the initial effort within the design and drafting phase.

Details within the project plans show what is required for the contractor to build the items. The details, if necessary, should be kept simple, yet contain all pertinent information. The use of special details should be kept minimal, referring to the Construction Standard Drawings whenever possible.

Details shown within the Drafting Guides are samples from previous projects and are not meant to be duplicated without thorough review in regard to specific project applicability. Detail content is the responsibility of the design engineer.

1-2 SHEET PREPARATION

1-2.1 General

Project plans are engineering drawings used to convey information pertaining to typical sections, pavement, geometrics, structures, drainage and other data used to construct the project.

1-2.2 Drawing Format Order

All Sheets are to be 22"x34" overall. They shall be of reproducible Bond paper or Vellum. The drawing border & title block shall conform to ADOT's CADD Standards.

Project plans may contain some or all of the following sheets. The contents of the plan set shall follow the sequence presented below:

- (1) Face Sheet
- (2) ADOT Standard Drawings Index
- (3) Design Sheet(s)
- (4) Barrier Summary Sheet(s)
- (5) New Pipe Summary Sheet(s)
- (6) Pipe Extension Summary Sheet(s)
- (7) Box Culvert Summary Sheet(s)
- (8) Box Extension Summary Sheet(s)

- (9) Detail Sheet(s)
- (10) Culvert Detail Sheet(s)
- (11) Construction Phasing Sheet(s)
- (12) Geometric Sheet(s)
- (13) Plan & Profile Sheet(s)
  - a. Mainline
- (14) Traffic Interchange Sheet(s)
  - a. Ramp Plan & Profile Sheet(s)
  - b. Crossroad Plan & Profile Sheet(s)
  - c. Paving Plan Sheet(s)
  - d. Staking Plan Sheet(s)
  - e. Pavement Joint Layout Sheet(s)
  - f. Detour Sheet(s)
- (15) Storm Drain Plan & Profile Sheet(s)
- (16) Topsoil Excavation & Plating Sheet(s)
- (17) Berm Plan & Profile Sheet(s)
- (18) Drainage Channel Sheet(s)
- (19) Traffic Sheet(s)
- (20) Structure Sheet(s)

1-2.3 General Drafting Practices

Text/Lettering

1) All text should follow the basic principles of single stroke Gothic style, either vertical or slant. Back slant is not acceptable. Slant text shall have a 22.5, plus or minus, degree angle from the right side of vertical.

2) The normal direction of reading text shall be from the bottom or the right side of the sheet. Horizontal and diagonal lines shall read from left-to-right and vertical lines shall read from bottom-to-top.

3) Line spacing for text shall always be one-half the text size unless noted otherwise.

4) Abbreviations should occur only when enough space is not available for placement of the entire text.

CADD Line Work

Standard P-00.60 shows the allowable line weights. For information about line codes, see P-00.60. Line work shall be uniform throughout the drawings.

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GENERAL INFORMATION		DRAWING NO. P-00.10

INTRODUCTION TO ROADWAY CADD STANDARDS

Updates have been made to incorporate ADOT's current MicroStation standards. All dgnlib's, seed files, fonts, line styles, cell libraries, and Group specific automation menus are distributed electronically.

Area patterning of pavements and pavement structural sections are acceptable. Since ADOT has incorporated line styles for linear patterning, use of any additional line patterning is subject to approval.

CADD DATA ACCEPTANCE AND RELEASE RULES

Format - All vector data shall be in standard Bentley ".dgn" format as in use by ADOT during the time of inception of the project. No vector file formats other than Bentley ".dgn" format shall be used during the project development. ADOT will not accept or release any vector data in any format other than ".dgn".

RASTER DATA

Raster data may be used as a raster reference only as supplemental information such as aerial photography. A raster image (snapshot) will not be acceptable as a replacement for vector data. A raster image of vector information on plans will not be acceptable, up to and including the bid set. DO NOT CREATE PLANS FROM RASTER REFERENCES.

FILE PARAMETERS

The global origin shall be located at the center of the design cube. To center the global origin, in the MicroStation key-in browser, type: go=0,0;xy=0,0]uor enter, unless otherwise directed. This is done for you if you utilize the Roadway seed files.

WORKING UNITS

ADOT uses the SI-metric conversion and will not accept US survey feet. State law requires the SI-metric conversion be used. Unit definitions are supplied within the CADD resources.

GRAPHICS

Design sheet cells are provided in the 'roadway.cel' library. Numerous other cells are contained within additional cell libraries. Use of shared cells is not acceptable. Levels are contained within the supplied 'dgnlib' files. The line styles and fonts are contained within their resource files provided by ADOT. Roadway standard resource files are provided electronically and can be downloaded via the Roadway Design web site.

REFERENCE FILES

Reference files are not to be copied into the sheet files. Reference files are not to be attached utilizing user-defined environment variables.

SHEET FILES

Only one sheet per file. The use of additional models other than "Default" shall not be acceptable.

TEXT

The following general text parameters shall be used on all sheets at scale

1"=100' unless:

- \* Specified otherwise in the Sections' specifications
- \* Specified otherwise in the Item's standard definition
- \* Preset within a cell
- \* Explicitly requested otherwise by ADOT

For sheets at different scales TX and LS values shall be modified accordingly to ensure text size consistency.

FT=23      general text  
FT=24      tabularized text  
TX=15      existing items  
FT=17.5    new items  
WT=2      existing items  
WT=4      new items  
LC=0      all text  
LV=      predefined within the resource file: roadway.dgnlib  
C0=      colors are defined ByLevel for cells only; otherwise, see Level and Color Designations from P-00.12

The following fonts constitute the acceptable fonts for plan development.

Font 1    VERTICAL PROPORTIONAL  
          general text, headers, titles

Font 7    OLD ENGLISH  
          special headers, titles, non-technical

Font 9    VERTICAL NON-PROPORTIONAL  
          tabularized text, general

Font 23   SLANTED PROPORTIONAL  
          general slanted text

Font 24   SLANTED NON-PROPORTIONAL  
          tabularized slanted text

Font 30   SWISS BOLD AREA FILL  
          details, traffic signs, special headers

Font 42   OUTLINE PROPORTIONAL  
          special graphics

Font 126  SYMBOL FONT  
          special symbols

Font 127  CHAR FAST FONT  
          slashed zero required in text

PLOTTING

The Username, file name, and date shall be plotted in the proper location at the bottom of the plan sheet.

SURVEY NO.

V:\ROADWAY\users\al428\

DESIGN	K. BROWN	3/08	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	SHEET OF	
DRAWN	R. FORTUNE	3/08			
CHECKED	J. HAVINS	3/08			
TEAM LEADER	J.C. COOPER	3/08			
ROUTE	LOCATION			TRACS NO.	OF

12:48:25 PM 03/20/2008 V:\Roadway\Users\al428\training\h1234bdr.dgn

Lower-Right Corner

ARCHIVING

Archiving of the project data files should be completed at the time the bid set is produced. The bid set contains ".dgn" files that contain reference file attachments outside the project directory. These attachments must be merged at the time the bid set is produced, or the data may be overwritten by a change to the standard details sheets, etc.

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
	INTRODUCTION TO ROADWAY CADD STANDARDS	DRAWING NO. P-00.11

NO.	DESCRIPTION OF REVISION

NO.	DESCRIPTION OF REVISION





NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
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2		2	
3		3	





NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
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2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
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2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	
4		4	

DESCRIPTION OF REVISION

	CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
National, State Boundary			Survey Control Point		
Forest or Reservation Boundary			Bench Mark		
County Line			Centerline, Station Marks		
City Limits			Mile Post Marker		
Township or Range Line			Sidewalk, Curb & Gutter w/Depressed Curb (l"=50' or larger)		
Section Line			Curb & Gutter with Depressed Curb (l"=100')		
Quarter or Mid-Section Line			Curb, Single with Depressed Area		
Sixteenth-Section Line			Pavement and Sidewalk Edge		
Right-of-Way Line			Turnout		
Property Line			Top of Cut		
Temporary Construction Easement			Toe of Fill		
Access Control			Transition, Cut to Fill		
Section Corner			Railroad Track (l"=50' or larger)		
Quarter Corner			Railroad Track (l"=100')		
Survey Monument			Bank Protection		
Right-of-Way Marker			Bridge		
Angle Point or PI			Building		
			APPROVED FOR DISTRIBUTION		
			STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES		
			REV.		
			DRAWING NO.		
			P-00.30 Sheet 1 of 4		

NO.	DESCRIPTION OF REVISION
1	
2	

	CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Catch Basin, Curb & Gutter			Straight Hdwl w/End Sct, Pipe (I'=20') (All Dia)		
Catch Basin, Safety			Straight Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=42" and larger)		
Catch Basin, Median			Straight Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=36" and smaller)		
Catch Basin, Single Curb			"U" Hdwl w/End Sct, Pipe (I'=20') (All Dia)		
Cattle Guard			"U" Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=42" and larger)		
Concrete Box Culvert			"U" Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=36" and smaller)		
Dike, Median			Wing Hdwl w/End Sct, Pipe (I'=20') (All Dia)		
Dike			Wing Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=42" and larger)		
Downdrain, one-way			Wing Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=36" and smaller)		
Downdrain, two-way			"L" Hdwl w/End Sct, Pipe (I'=20') (All Dia)		
Manhole			"L" Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=42" and larger)		
Manhole, Frame & Cover, Reset			"L" Hdwl w/End Sct, Pipe (I'=50' or smaller) (Dia=36" and smaller)		
Retaining Wall			Pipe Ext W/End Sct & Berm (I'=20') (All Dia)		
Rock Riprap			Pipe Ext W/End Sct & Berm (I'=20') (I'=50' or smaller) (Dia=42" and larger)		
Spillway, one-way			Pipe Ext W/End Sct & Berm (I'=20') (I'=50' or smaller) (Dia=36" and smaller)		
Spillway, two-way			Pipe Ext W/End Sct Roadway Widening (I'=20')		

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ROADWAY DESIGN SECTION  
DRAFTING GUIDES

REV.

SYMBOL LEGEND

DRAWING NO.  
P-00.30  
Sheet 2 of 4

NO.	DESCRIPTION OF REVISION
NO.	DESCRIPTION OF REVISION

	CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS	
	NEW FEATURES	EXISTING FEATURES		NEW FEATURES	EXISTING FEATURES
Plan View, Bituminous Pavement			Irrigation Ditch, Concrete		
Plan View, Concrete Pavement			Irrigation Ditch, Earth		
Plan View, Graded Surface			Irrigation Line (I"=20')		
Plan View, Obliterate Pavement			Irrigation Line (I"=100')		
Plan View, Wood			Overhead Power/Joint-Use Line		
Section, Asphaltic Concrete Friction Course			Overhead Telephone Line		
Section, Bituminous Pavement			Sanitary Sewer (I"=100')		
Section, Concrete			Storm Drain (I"=100')		
Section, Metal			Street Light and with Mast Arm		
Section, Wood			Telephone/Power Pedestal		
Section, Aggregate Base			Utility Pole with Down Guy and Anchor		
Section, Groundline			Underground Power/Joint-Use Line		
Groundline Profile			Underground Telephone Line		
Barbed Wire Fence & Gate			Water/Gas Meter Box		
Chain Link Fence & Gate			Water/Gas Valve		
Guardrail & Flared End Terminal					
Guardrail & Tangent End Terminal					
Gas Line					

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	SYMBOL LEGEND		DRAWING NO. P-00.30 Sheet 3 of 4

NO.	DESCRIPTION OF REVISION	
NO.	DESCRIPTION OF REVISION	

CONSTRUCTION DRAWING SYMBOLS			CONSTRUCTION DRAWING SYMBOLS		
NEW FEATURES		EXISTING FEATURES	NEW FEATURES		EXISTING FEATURES
Water Line			Block Wall (1"=20')		
Drainage Channel			Median Barrier		
Drainage Ditch			Fire Hydrant		
Major Wash			Standpipe		
Minor Wash			Transmission Tower		
℄ Grade, Profile			Windmill		
Hedge			Mail Box		
Palm Tree			Flag Pole		
Shrubbery			North Arrow		
Unclassified Tree					
Sign, Single Post					
Sign, Multiple Post					
Dimensions					
Visible Outlines, Sections, etc.					
Index Contour Line					
Intermediate Contour Line					

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	SYMBOL LEGEND		DRAWING NO. P-00.30 Sheet 4 of 4





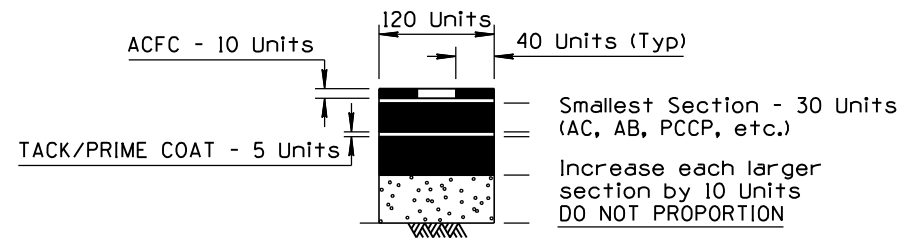
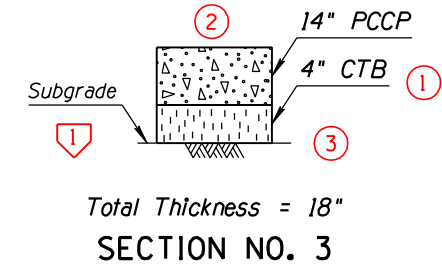
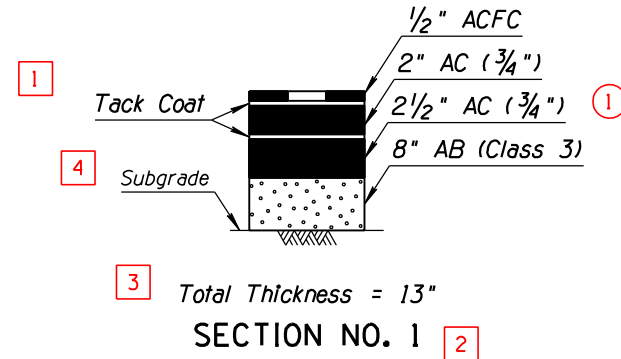
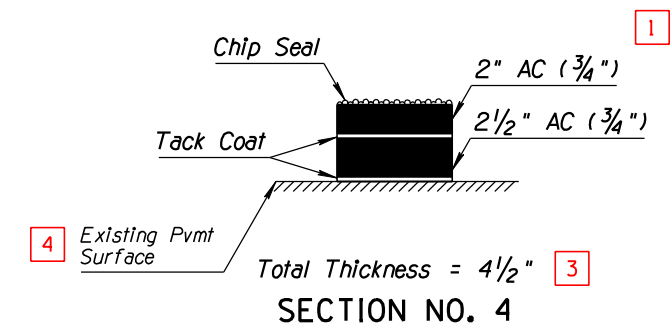
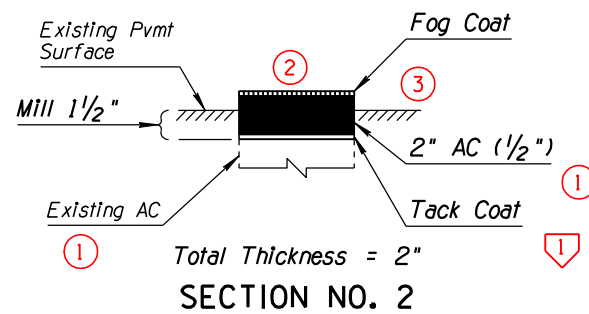


FIGURE A



## DRAFTING NOTES

- Pavement structural sections for AC should be filled in by placing a shape with an opaque area fill. This will produce a blackened shape when plotted.
- The various lifts shown in the pavement structural sections are not drawn to scale. Example: 2" AC & 16" AB - Draw the 2" AC lift 30 units tall and the 16" AB 40 units tall. Use FIGURE A as a guide.
- The note "Pavement lift thickness is 'nominal'", when applicable, should be placed in the General Notes on the design sheet.
- If the AC removal is to be a known milling operation, the callout should be "Mill". Otherwise, the callout should be "Remove".
- Symbols for bases and subbases, such as AB and CTB, are created by randomly placing the respective cell as shown in Sections No. 1 and 3.



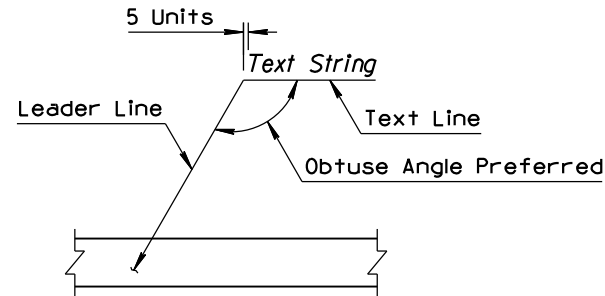
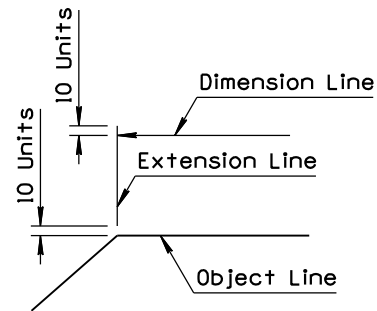
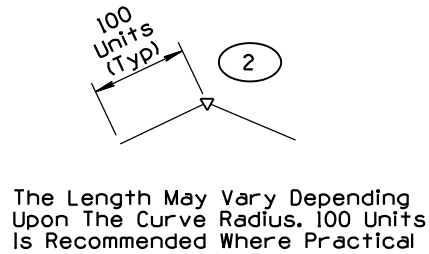
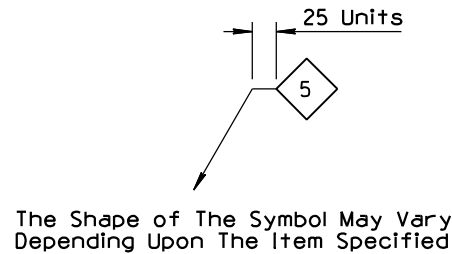
## PAVEMENT STRUCTURAL SECTIONS

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PAVEMENT STRUCTURAL SECTION LAYOUT & CONSTRUCTION		DRAWING NO. P-00.40 Sheet 2 of 2

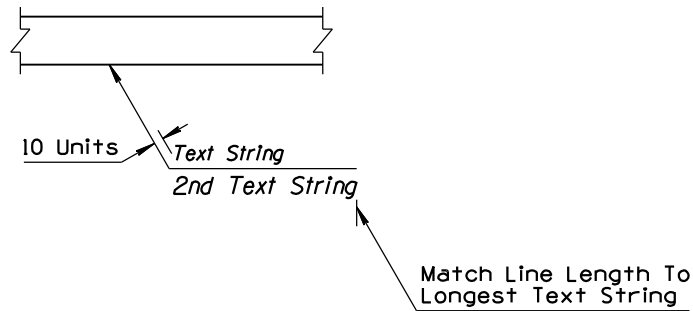
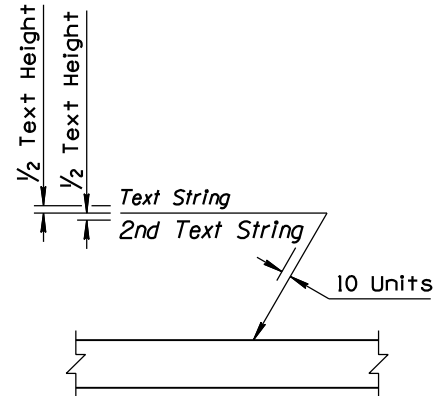




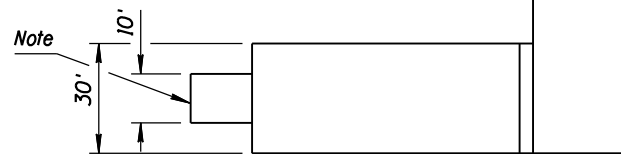




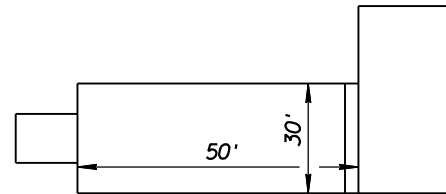
The Angle of Leader Lines Should Remain Constant Throughout The Sheet



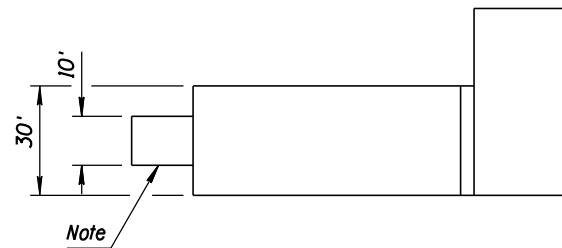
Acute Angle Used Only If Necessary



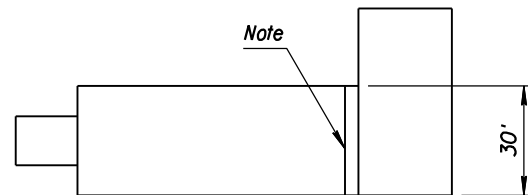
Break Leader & Extension Lines When Crossing Dimension Lines



Break Dimension Lines That Cross (Preferred Method Is To Not Dimension Within Object Boundaries)



Break Extension Lines When Crossing Leader Lines



Do Not Break Object Line For Leader or Extension Line Crossing

**DETAIL B**

Cell Origin

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION
DRAWN			INTERMODAL TRANSPORTATION DIVISION
CHECKED			ROADWAY DESIGN SECTION
TEAM LEADER			

**DETAIL B**

Sheet 1 of 2

MODIFIED CURB AND GUTTER

Cell Origin

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION
DRAWN			INTERMODAL TRANSPORTATION DIVISION
CHECKED			ROADWAY DESIGN SECTION
TEAM LEADER			
ROUTE	LOCATION		SHEET OF
TRACS NO.			OF

**DETAIL B**

Sheet 1 of 2

MODIFIED CURB AND GUTTER

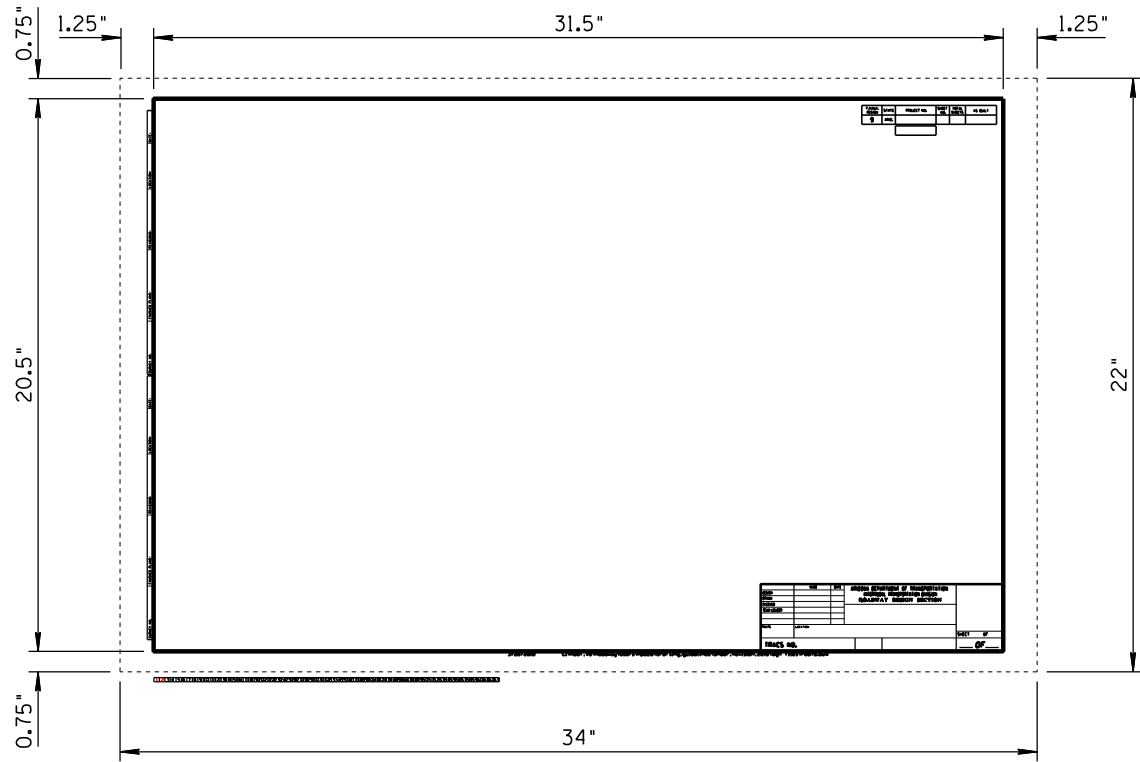
Cell Origin

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION
DRAWN			INTERMODAL TRANSPORTATION DIVISION
CHECKED			ROADWAY DESIGN SECTION
TEAM LEADER			
ROUTE	LOCATION		SHEET OF
TRACS NO.			OF

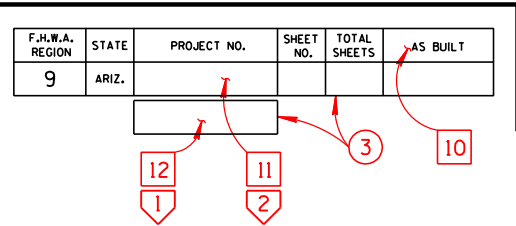
APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
DETAIL FORMAT LAYOUT AND LEADER LINE CONSTRUCTION		DRAWING NO. P-00.61 Sheet 2 of 2



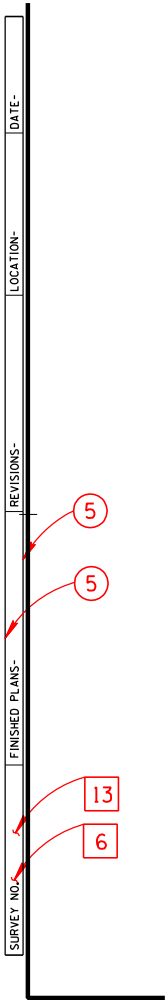




STANDARD PLAN SHEET



PROJECT NUMBER BLOCK LAYOUT  
Upper-Right Corner



REVISION & SURVEY BLOCK LAYOUT  
Lower-Left Corner

Consultant's Logo

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION	
DRAWN				
CHECKED				
ROUTE	LOCATION			SHEET OF
TRACS NO				OF

NOTE: Use same text parameters as shown below.

CONSULTANT VERSION

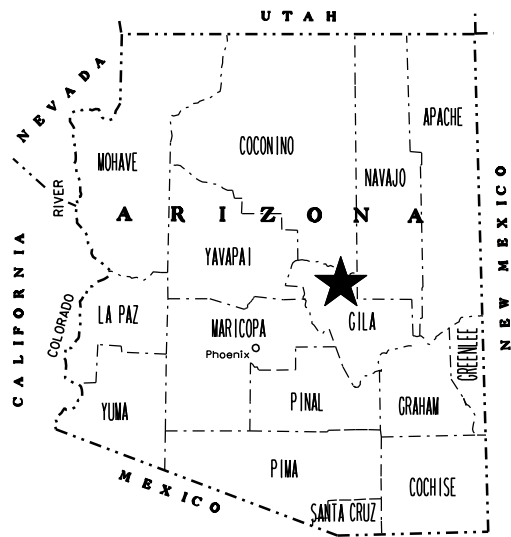
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION			SHEET OF
TRACS NO				OF

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION			SHEET OF
TRACS NO.				OF

TITLE BLOCK LAYOUT  
Lower-Right Corner  
ROADWAY DESIGN VERSION

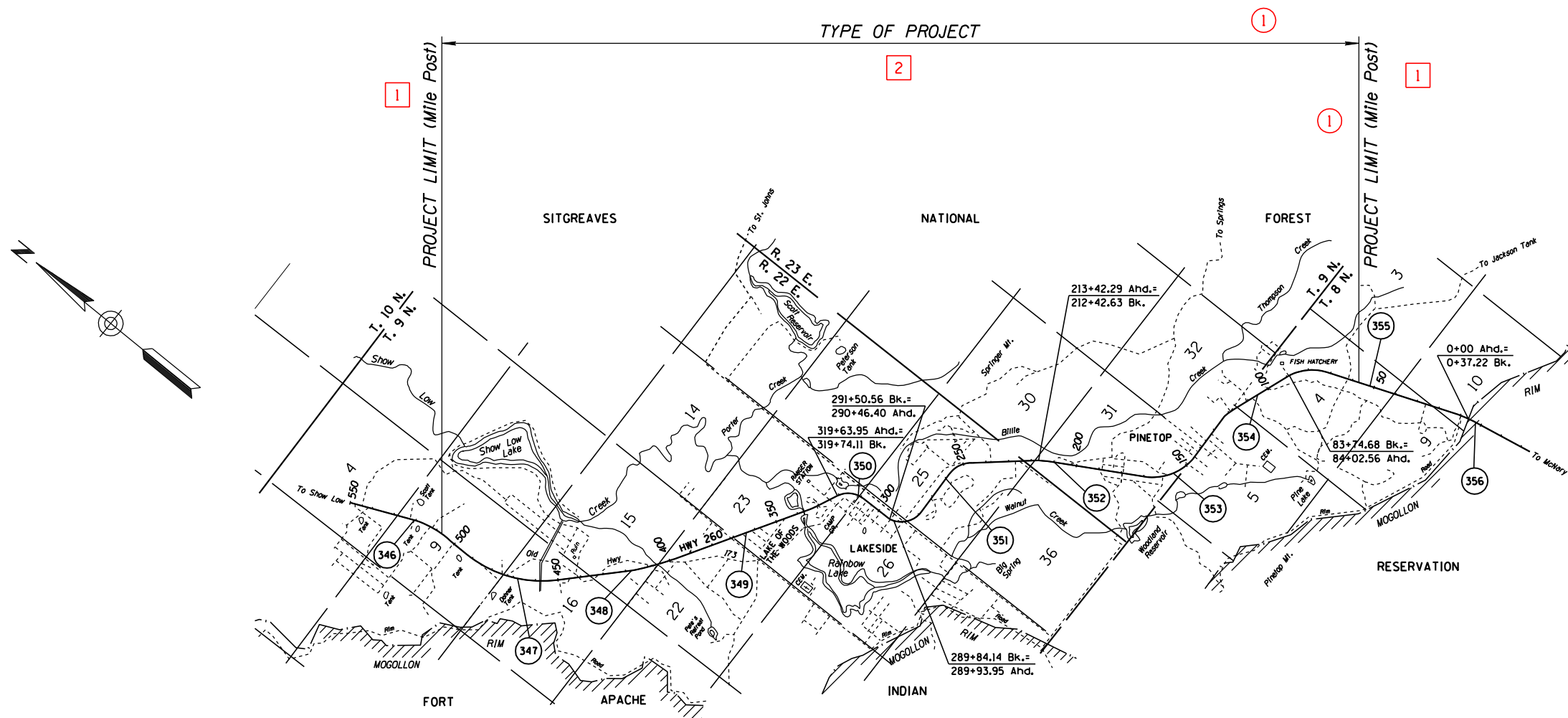
APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
SHEET LAYOUT		DRAWING NO. P-00.70 Sheet 2 of 2





STATE OF ARIZONA  
DEPARTMENT OF TRANSPORTATION  
INTERMODAL TRANSPORTATION DIVISION

PROJECT PLANS  
STATE HIGHWAY  
HIGHWAY NAME  
PROJECT NUMBER  
ADOT PREFIX



Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

As-Built by:

As-Built Designer Name & Company

Completion Date

PROJECT LOCATION

ARIZONA DEPARTMENT OF TRANSPORTATION  
INTERMODAL TRANSPORTATION DIVISION  
FLOYD ROEHRICH, JR. P.E., STATE ENGINEER

AS BUILT DATA	AS BUILT DATE	OF
------------------	---------------	----



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	AS BUILT
9	ARIZ.				

3 MIDPOINT OF PROJECT

4 State Plane Coordinates  
Central Zone  
X=140,000  
Y=1,090,000

3 DESIGN DATA

1 2000 AADT = 7,350  
2020 AADT = 14,350  
Design Speed = 60 MPH

3 LENGTH OF PROJECT

SOUTHBOUND

Sta 1442+00.00 to 1539+55.34 Bk = 9,755.34'  
Sta 1540+03.52 Ahd to 1627+68.35 Bk = 8,764.83'  
Sta 124+88.79 Ahd to 180+68.51 = 5,579.72'  
Gross & Net Length = 24,099.89' - 4.56 Miles  
Mile Post 231.02 to 235.58

NORTHBOUND

Sta 1441+84.36 to 1539+91.87 Bk = 9,807.51'  
Sta 1540+03.52 Ahd to 1642+24.97 Bk = 10,221.45'  
Sta 135+39.21 Ahd to 193+05.10 = 5,765.89'  
Gross & Net Length = 25,794.85' - 4.89 Miles  
Mile Post 231.29 to 236.18

3 INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1B	ADOT Standard Drawings
2-3	Design Sheets
4	Barrier Summary Sheet
5-6	New Pipe Summary Sheets
7	Pipe Ext Summary Sheet
8	Box Culvert Summary Sheet
9-16	Construction Phasing Sheets
17-42	Detail Sheets
43-74	Culvert Detail Sheets
75	Geometric Sheet
76-96	Plan & Profile Sheets
97-143	Traffic Sheets
144-190	Structure Sheets

3 GENERAL NOTES

2 The roadway plans have been designed utilizing the 2007 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

The pavement shoulders shall be treated with a rumble strip: see Traffic sheets.

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

Survey Monuments in median must not be disturbed.

Bench markers will be furnished by the State and shall be placed by the Contractor: Std C-21.20.

R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

For R/W information not shown, see Right-of-Way project No. BP-063-1-611.

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

The average project elevation is 4,500'.

2 LOOP DETECTOR / CLASSIFIER SYSTEMS

Std TS 7-2 Type C = Traffic Counter  
Std TS 7-3 Type S = Speed and Vehicle Class

Systems	Type	Approximate Location
1	C	NB Sta 1539+20 / MP 233.13
1	C	SB Sta 1505+55 / MP 232.22
		Sta + / MP .
		Sta + / MP .

2 EARTHWORK QUANTITIES

Roadway Excavation 1,252,270 CY  
Shrink 9,871 CY  
Embankment (Including Ground Comp.) 1,185,625 CY  
Waste 56,774 CY

EARTHWORK FACTORS

Station	Shrink/Swell	Ground Compaction
NB 1441 + 84 to 1485 + 25	15% Shrink	0.10 '
NB 1485 + 25 to 1494 + 62	10% Shrink	0.10 '
NB 1494 + 62 to 1542 + 42	15% Shrink	0.10 '
NB 1542 + 42 to 139 + 78	10% Shrink	0.20 '
NB 139 + 78 to 193 + 10	Even	0.20 '
SB 1442 + 00 to 1507 + 54	5% Shrink	0.20 '
SB 1507 + 54 to 1568 + 09	5% Shrink	0.10 '
SB 1568 + 09 to 1598 + 55	5% Shrink	0.20 '
SB 1598 + 55 to 1611 + 32	15% Shrink	0.20 '
SB 1611 + 32 to 125 + 89	Even	0.20 '
SB 125 + 89 to 180 + 70	Even	0.15 '

2 CUT SLOPE EXCEPTION TABLE

Station	Side	Slope Control
NB 1473 + 00 to 1479 + 50	Both	4:1
NB 1479 + 50 to 1515 + 25	Right	6:1 (Daylight)
NB 1537 + 75 to 1542 + 50	Right	4:1
NB 1586 + 25 to 1630 + 25	Both	3:1
NB 133 + 50 to 162 + 36	Both	6:1 (Daylight)
SB 1445 + 50 to 1472 + 25	Left	3:1
SB 1485 + 75 to 1510 + 50	Both	4:1
SB 1515 + 25 to 1530 + 25	Right	6:1 (Daylight)
SB 1602 + 75 to 150 + 75	Right	4:1

2 FILL SLOPE EXCEPTION TABLE

Station	Side	Slope Control
NB 1479 + 50 to 1515 + 25	Left	4:1
NB 1537 + 75 to 1542 + 50	Left	4:1
NB 162 + 50 to 164 + 25	Left	4:1 - 6:1
SB 1445 + 50 to 1472 + 25	Right	2:1
SB 1505 + 50 to 1525 + 75	Both	6:1
SB 1525 + 75 to 1528 + 75	Both	6:1 - C-02.10
SB 150 + 25 to 175 + 25	Right	4:1

2 SOIL VALUES

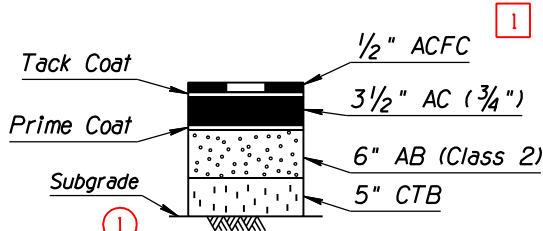
Station	pH	Resistivity	Station	pH	Resistivity
SB 1442 + 25	8.0	520	NB 1442 + 43	7.2	800
SB 1482 + 50	7.4	820	NB 1496 + 25	8.0	760
SB 1495 + 00	7.4	520	NB 1530 + 32	7.4	1280
SB 1517 + 30	7.6	580	NB 1546 + 11	7.2	1000
SB 1536 + 22	7.3	600	NB 1640 + 05	7.3	680

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
			DESIGN SHEET	
ROUTE	SR 87	LOCATION	SUNFLOWER - MAZATZAL	SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF

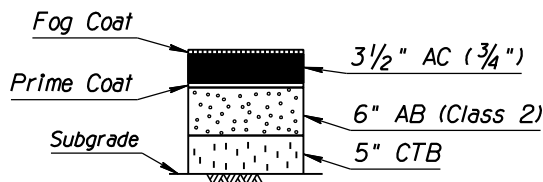




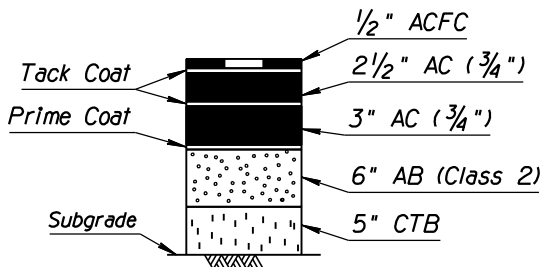
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



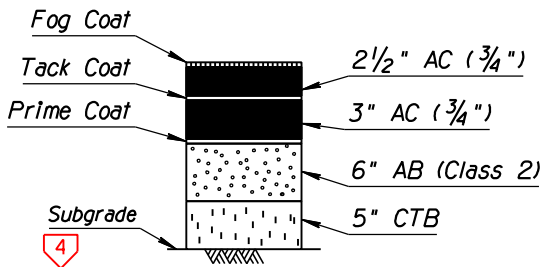
SECTION NO. 1



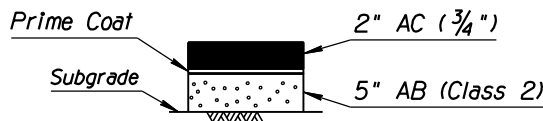
SECTION NO. 2



SECTION NO. 3

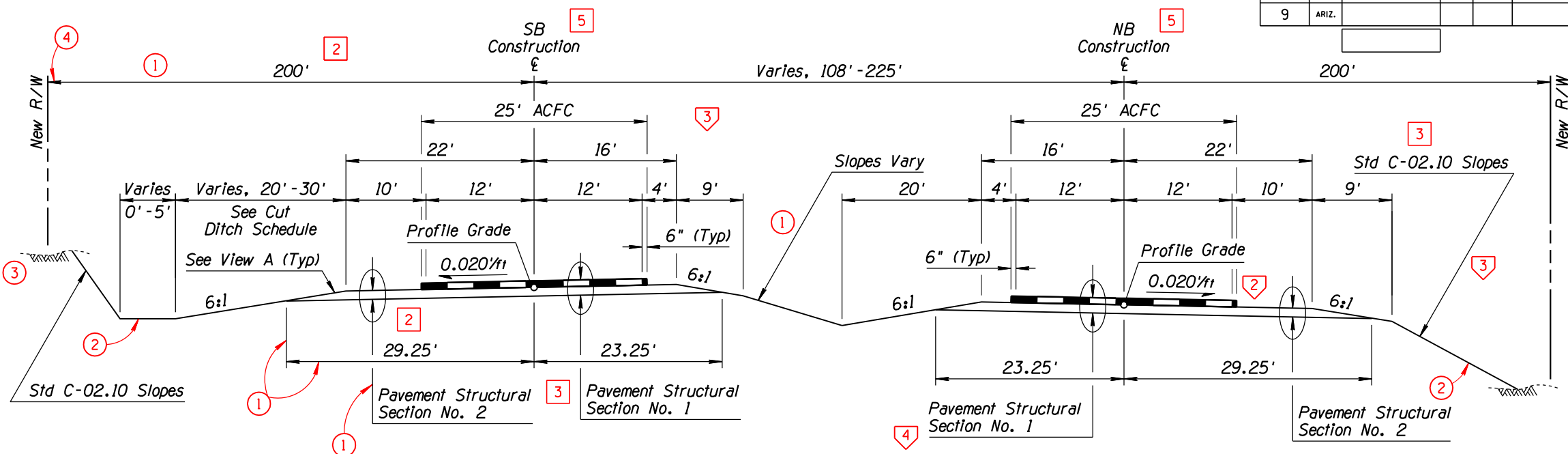


SECTION NO. 4

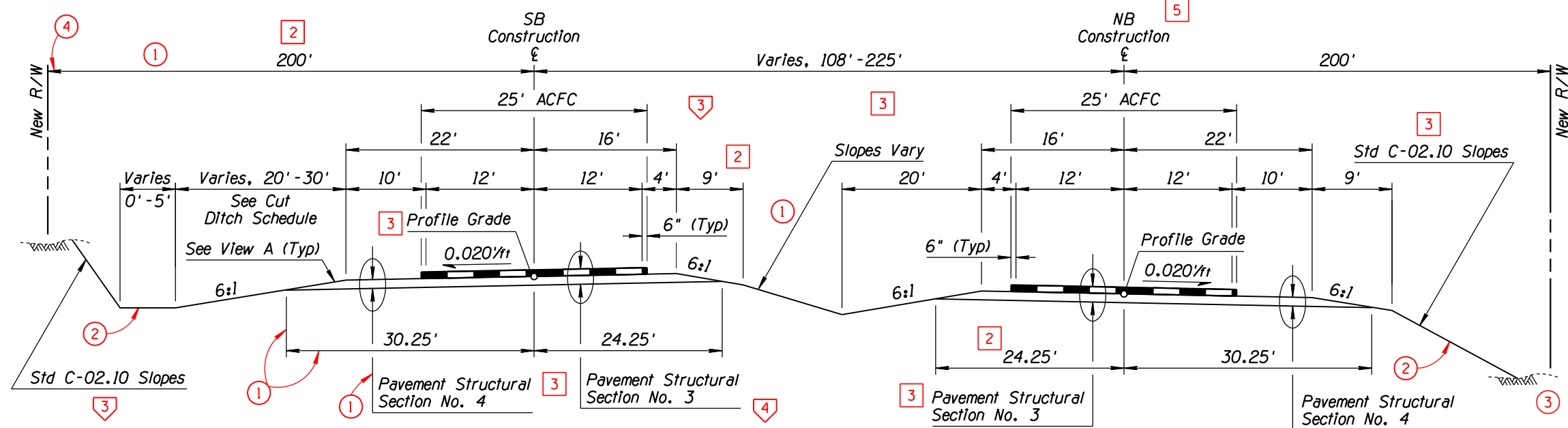


SECTION NO. 5

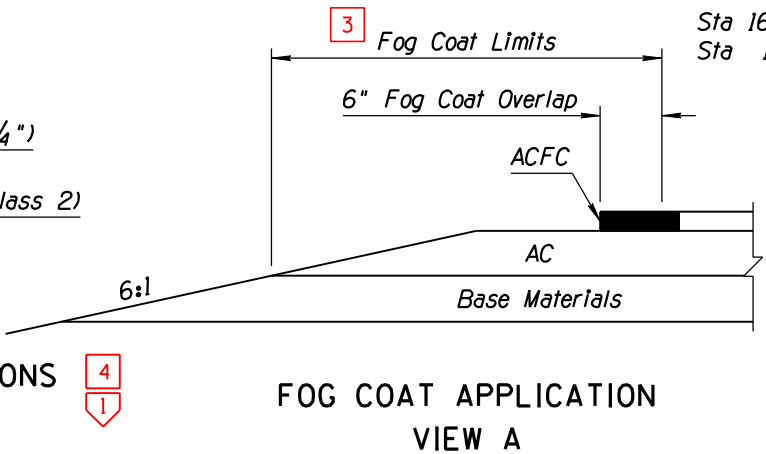
PAVEMENT STRUCTURAL SECTIONS



TYPICAL SECTION



TYPICAL SECTION



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			
CHECKED			
TEAM LEADER			
ROUTE	SR 87	LOCATION	SUNFLOWER - MAZATZAL
TRACS NO.	H0000 01 C		

SHEET 2 OF 2

OF

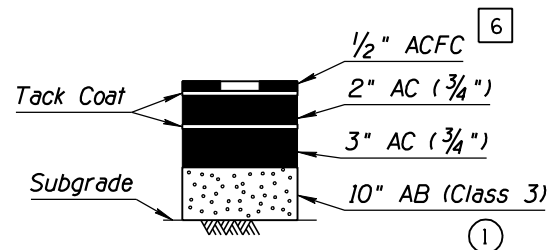


DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO. DATE: LOCATION: REVISIONS: FINISHED PLANS: SURVEY NO.

4 MIDPOINT OF PROJECT

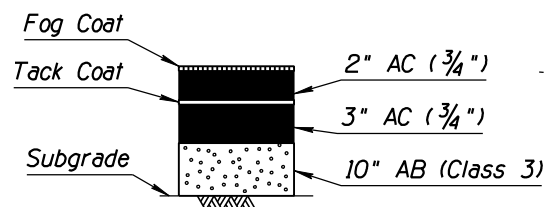
5 Western Zone  
State Plane Coordinates

X=298,000  
Y=840,000



Total Thickness = 15 1/2"

SECTION NO. 1



Total Thickness = 15"

SECTION NO. 2

PAVEMENT STRUCTURAL SECTIONS

EARTHWORK QUANTITIES

Roadway Excavation	655,029 CY
Swell/Shrink	71,942 CY
Drainage Excavation	482 CY
Swell	72 CY
Embankment (Including Ground Comp.)	768,798 CY
Borrow	45,859 CY
10% Shrink	4,586 CY

EARTHWORK FACTORS

Station	Shrink/Swell	Ground Compaction
395 + 00 to 401 + 00	Even	0.00'
401 + 00 to 403 + 00	Even	0.25'
403 + 00 to 406 + 00	15% Swell	0.25'
406 + 00 to 417 + 00	5% Swell	0.25'
417 + 00 to 431 + 00	10% Swell	0.30'
431 + 00 to 440 + 00	15% Swell	0.15'
440 + 00 to 449 + 00	10% Swell	0.15'
449 + 00 to 459 + 00	10% Swell	0.25'
459 + 00 to 464 + 00	5% Shrink	0.25'
464 + 00 to 480 + 00	10% Swell	0.25'
480 + 00 to 501 + 90	15% Swell	0.30'

4 DESIGN DATA

1 2000 AADT = 2,900  
2020 AADT = 5,400  
Design Speed = 60 MPH

4 LENGTH OF PROJECT

1 Sta 395 + 00.00 to 501 + 90.00 = 10,690.00'  
Gross & Net Length = 10,690.00' - 2.02 Miles  
Mile Post 125.36 to 127.38

4 INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1B	ADOT Standard Drawings
2-5	Design Sheets
6-7	Barrier Summary Sheets
8	New Pipe Summary Sheet
9	Box Culvert Summary Sheet
10-15	Detail Sheets
16-25	Culvert Detail Sheets
26-28	Construction Phasing Sheets
29-44	Plan & Profile Sheets
45-61	Traffic Sheets
62-63	Structure Sheets

4 GENERAL NOTES

2 The roadway plans have been designed utilizing the 2007 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

The pavement shoulders shall be treated with a rumble strip: see Traffic sheets.

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

Survey Monuments in median must not be disturbed.

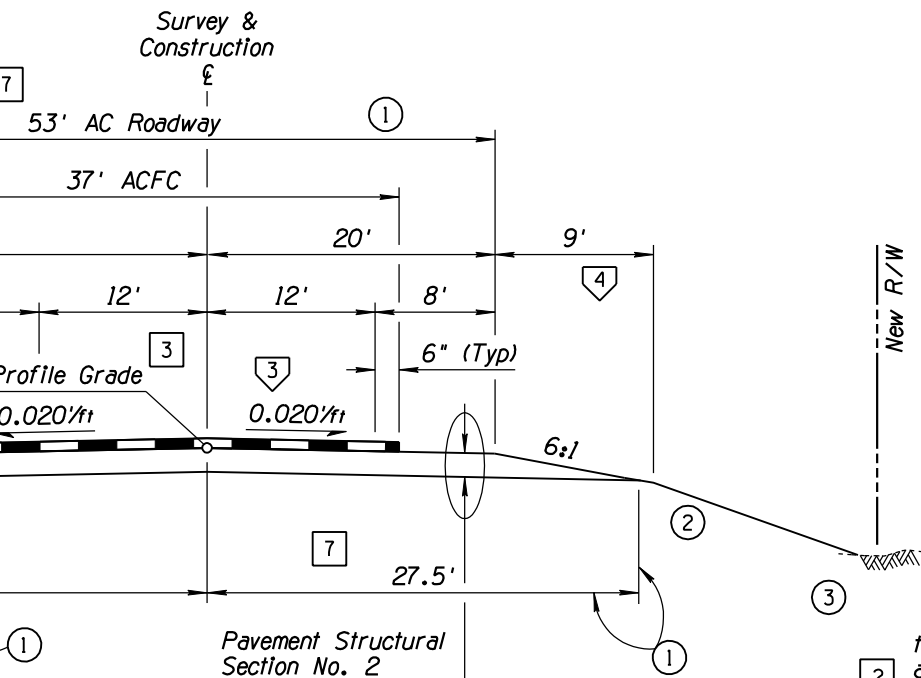
Bench markers will be furnished by the State and shall be placed by the Contractor: Std C-21.20.

R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

For R/W information not shown, see Right-of-Way project No. F-063-2-311.

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

The average project elevation is 4,500'.



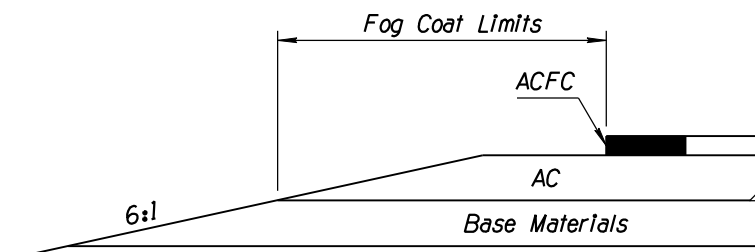
4 TYPICAL SECTION

SOIL VALUES

Station	pH	Resistivity
395 + 10	7.3	2240
398 + 60	7.2	800
409 + 60	7.4	480
438 + 80	7.2	780
442 + 15	7.4	740
451 + 50	7.3	520
465 + 25	7.2	310
510 + 15	7.2	420

LOOP DETECTOR / CLASSIFIER SYSTEMS

Std TS 7-2 Type C = Traffic Counter Std TS 7-3 Type S = Speed and Vehicle Class		
Systems	Type	Approximate Location
1	C	Sta 396+00 / MP 125.38
1	C	Sta 439+00 / MP 126.19
		Sta + / MP .
		Sta + / MP .



FOG COAT APPLICATION  
VIEW A

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			
CHECKED			
TEAM LEADER			
DESIGN SHEET			
ROUTE	US 95	LOCATION	OSBORN WASH - NORTH (UNIT II)
TRACS NO. H0000 01 C			SHEET 2 OF 2
			OF



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

REFERENCES

BP-063-1-503  
S-53(1)

MIDPOINT OF PROJECT

Western Zone  
State Plane Coordinates  
X=220,000  
Y=610,000

DESIGN DATA

2000 AADT = 19,900  
2010 AADT = 30,000  
Design Speed = 50 MPH

LENGTH OF PROJECT

Sta 1079+00.00 to 1089+59.40 Bk = 1,059.40'  
Sta 1089+58.35 Ahd to 1124+00.00 = 3,441.65'  
Gross & Net Length = 4,501.05' - 0.85 Mile  
Mile Post 19.70 to 20.55

INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1B	ADOT Standard Drawings
2-3	Design Sheets
4-5	New Pipe Summary Sheets
6	PSWP Summary Sheet
7-21	Detail Sheets
22-37	Plan & Profile Sheets
38-56	Storm Drain Plan & Profile Sheets
57-59	PSWP Profile Sheets
60-66	Driveway Profile Sheets
67-79	Traffic Sheets

GENERAL NOTES

The roadway plans have been designed utilizing the 2007 Construction Standard Drawings (C-Series) and current revisions. Refer to the 1A sheet for a listing of current revision dates.

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

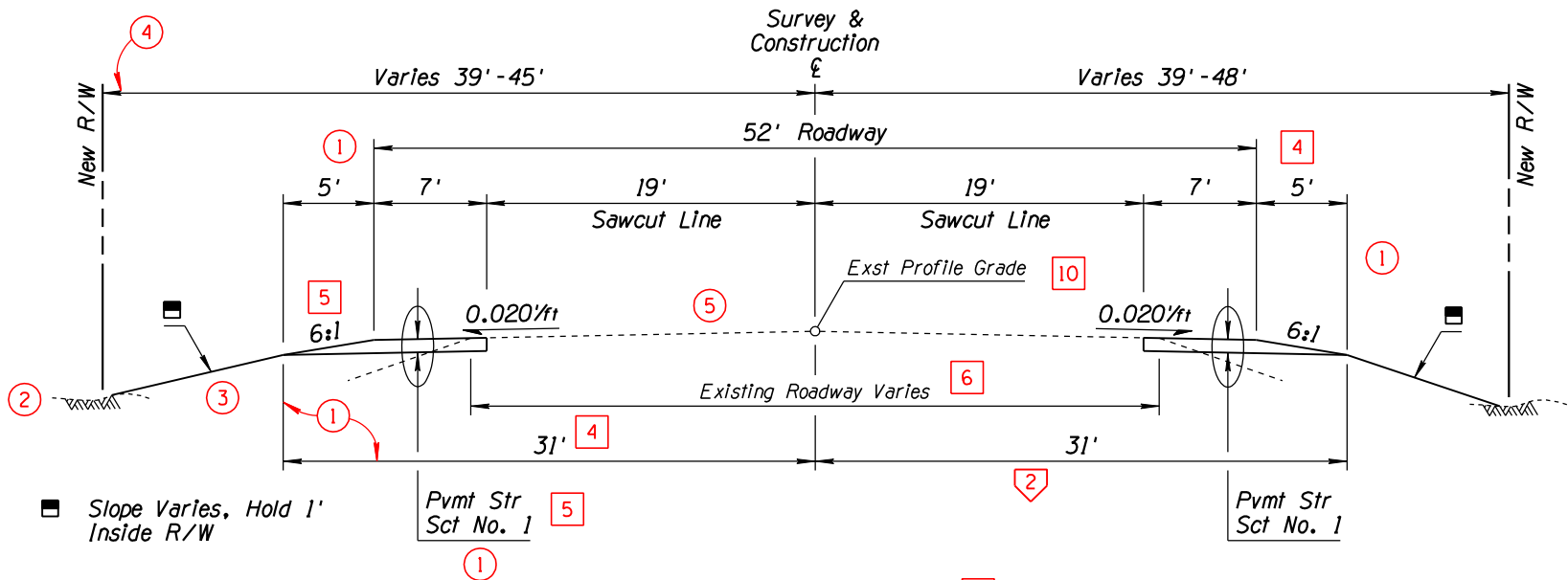
R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

For R/W information not shown, see Right-of-Way project No. BP-063-1-611.

Bench markers will be furnished by the State and shall be placed by the Contractor: Std C-21.20.

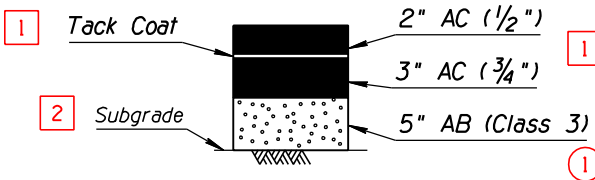
Where only the horizontal location of an existing utility is shown, the location is approximate. Where both the horizontal and vertical location of an existing utility is shown, the location has been verified by field survey methods. The contractor shall comply with all current Blue Stake laws and Section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

For Superelevation information not shown, see ADOT Roadway Design Guidelines (current edition).



TYPICAL SECTION

Sta 1079+00.00 to 1086+00.00



Total Thickness = 10"

SECTION NO. 1

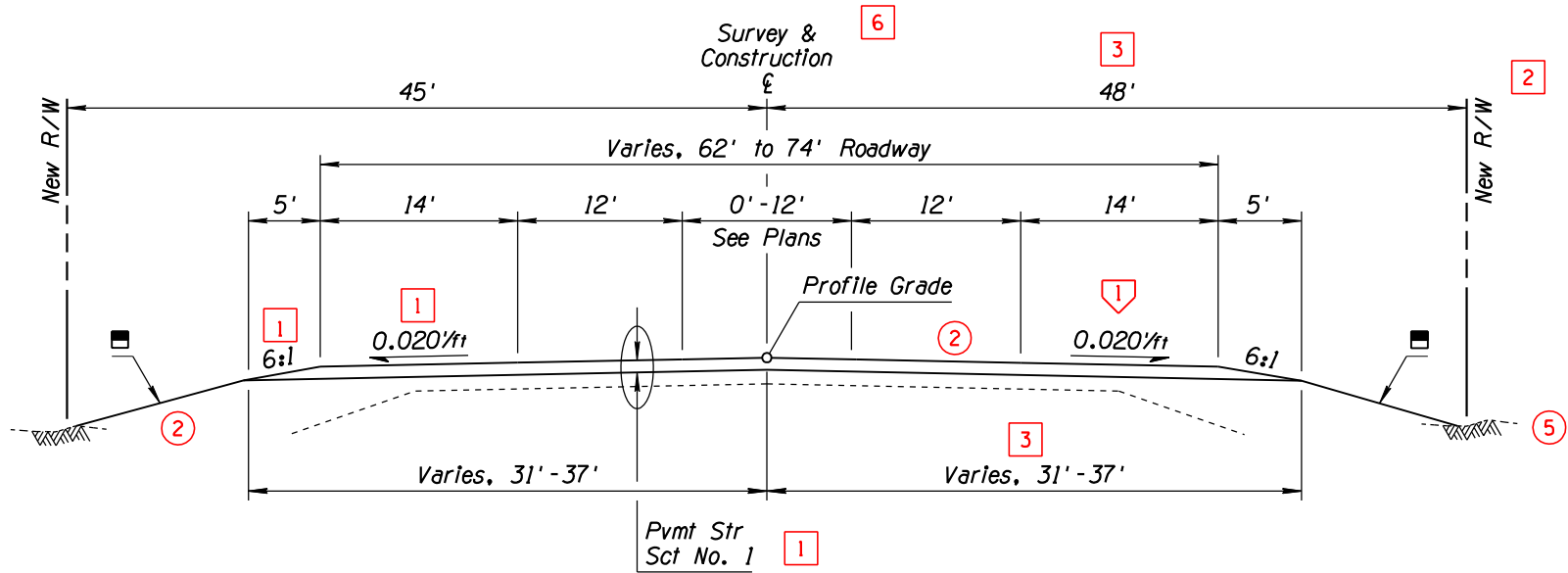
PAVEMENT STRUCTURAL SECTION

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	US 95	LOCATION	32nd ST - 26th ST (YUMA)	SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF

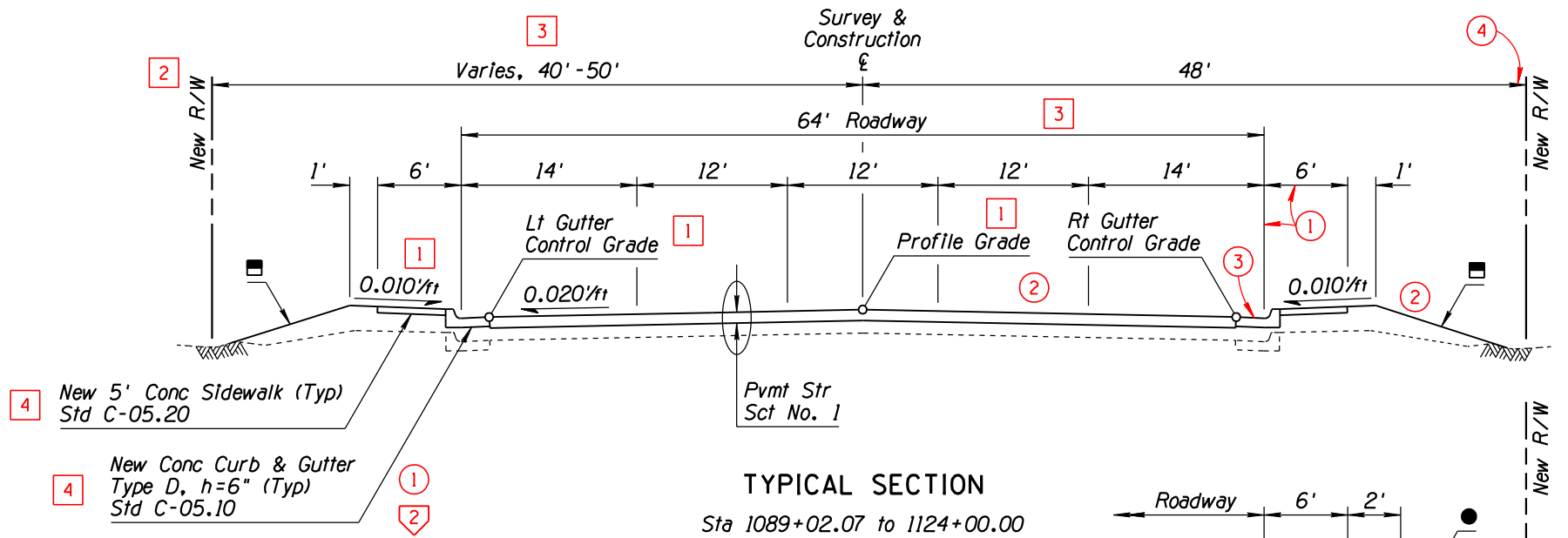




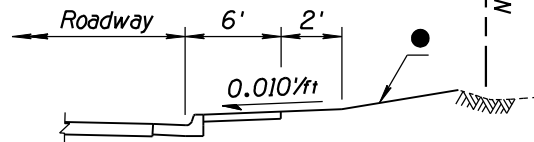
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



TYPICAL SECTION  
Sta 1086+00.00 to 1089+02.07



TYPICAL SECTION  
Sta 1089+02.07 to 1124+00.00



Rt Sta 1091+50.00 to 1093+00.00

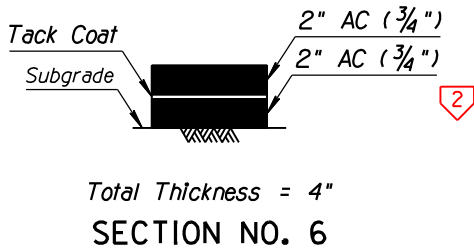
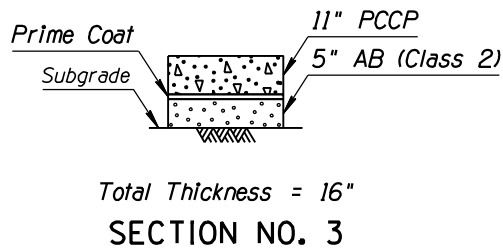
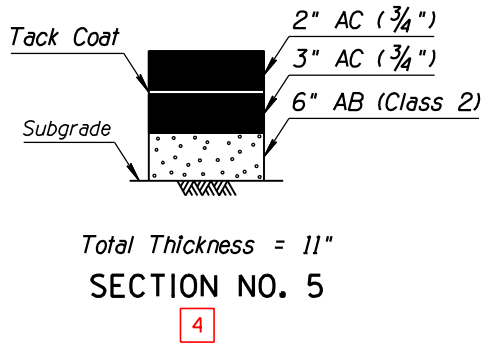
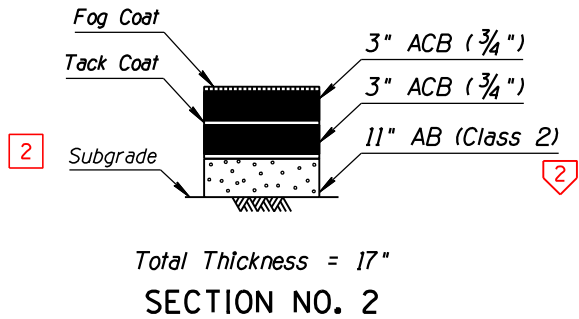
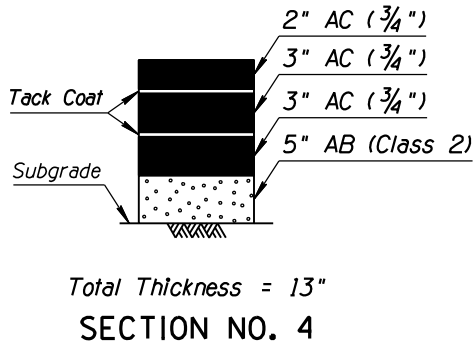
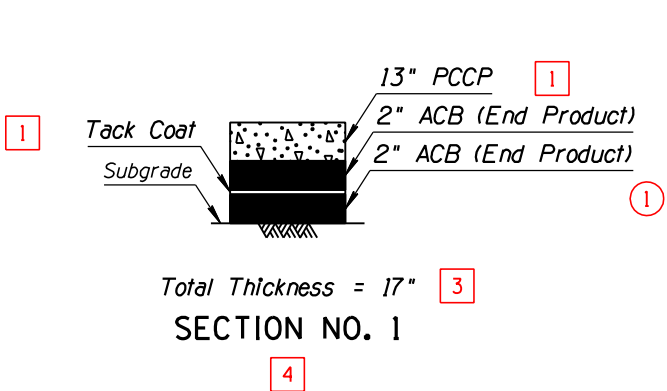
- 1 Slope Varies, Hold 1' Inside R/W
- 2 6:1 Slope or Hold 1' Inside R/W

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	US 95	LOCATION	32nd ST - 26th ST (YUMA)	SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	
4		4	

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	AS BUILT
9	ARIZ.				

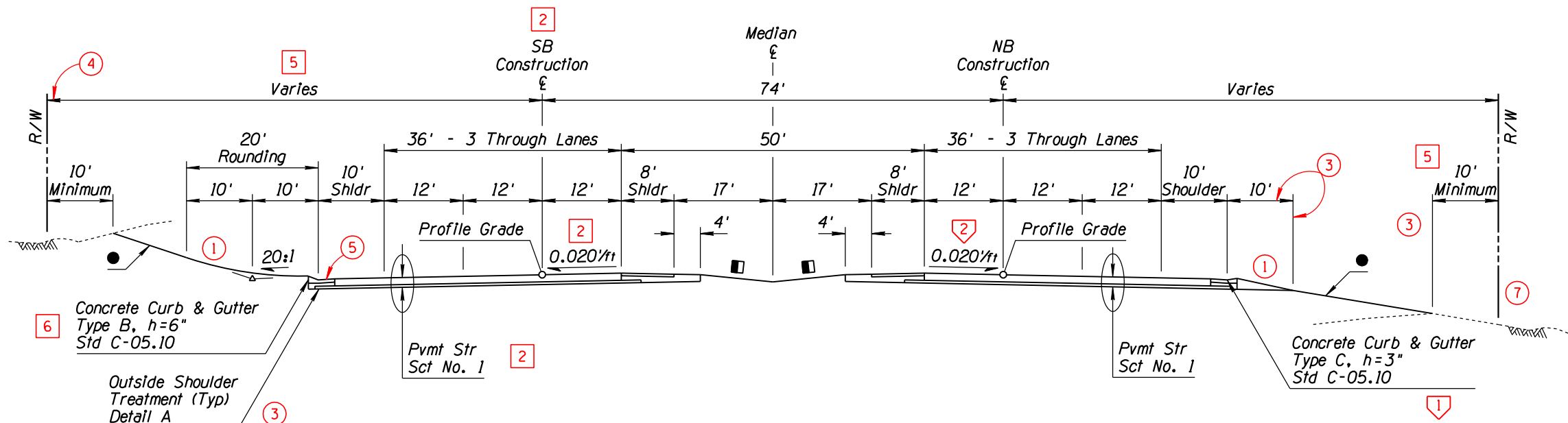
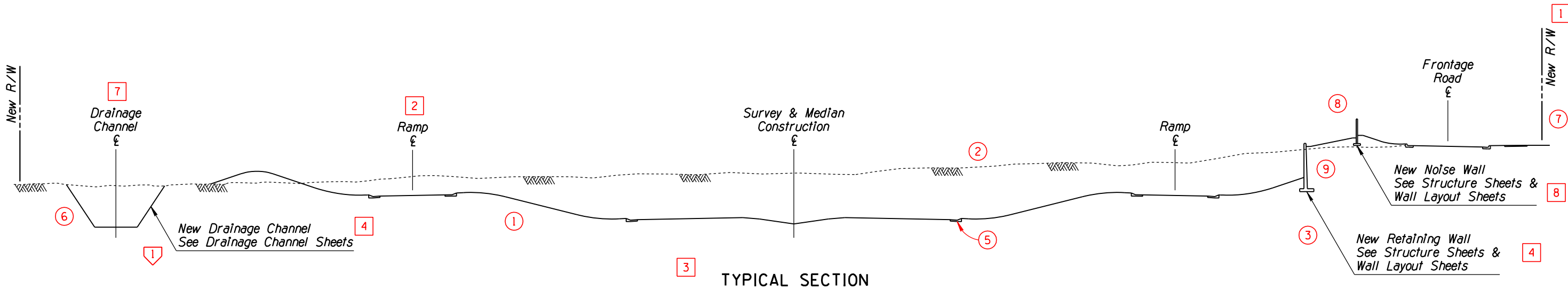


PAVEMENT STRUCTURAL SECTIONS 4 1

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION		
DESIGN						
DRAWN						
CHECKED						
TEAM LEADER				DESIGN SHEET		
				PAVEMENT STRUCTURAL SECTIONS		
ROUTE		LOCATION				
SR 101L		PRICE, FIRST ST - BASELINE				SHEET 2 OF 2
TRACS NO.		H0000 01 C				___ OF ___

[illegible]

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



TYPICAL MAINLINE SECTION

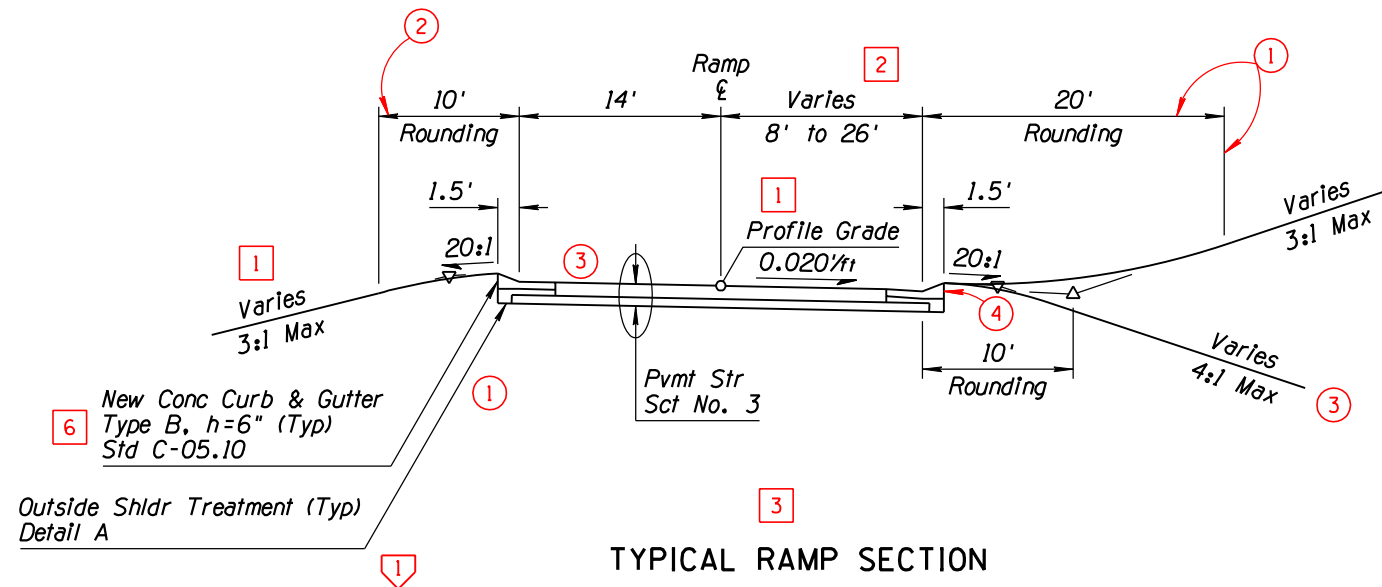
- 10:1 Desirable
- 6:1 or Flatter Slope Desirable
- 3:1 Max for Landscaping
- See ADOT Roadway Design Guidelines
- Figure 303.2 for Barrier Warrants

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	SR 101L	LOCATION	PRICE, FIRST ST - BASELINE	SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF

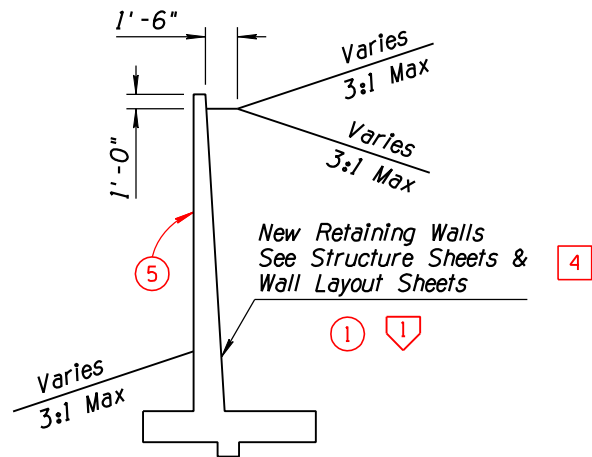


DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

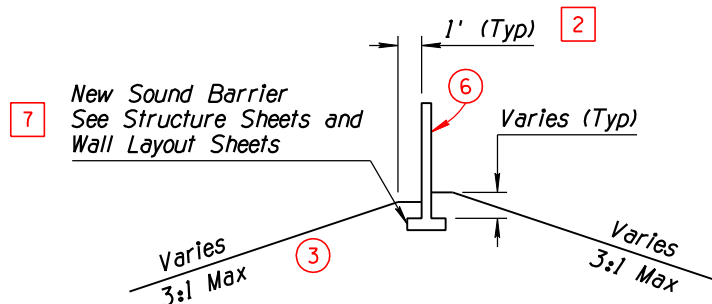
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



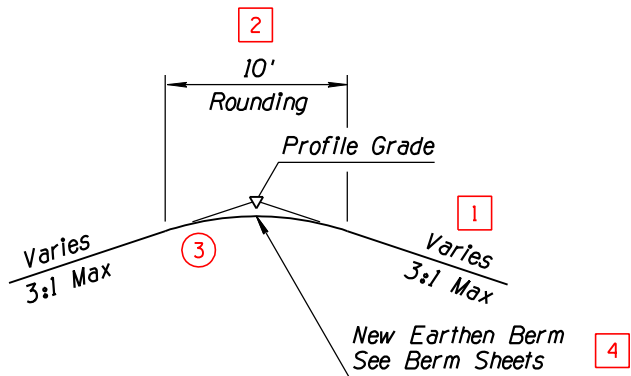
TYPICAL RAMP SECTION



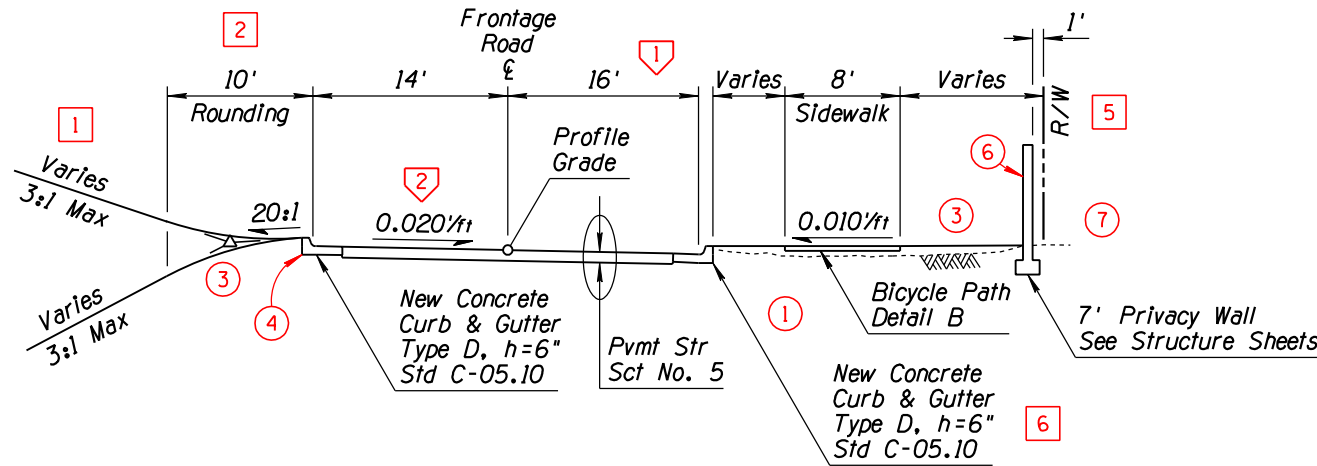
TYPICAL WALL SECTION



TYPICAL SOUND BARRIER SECTION



TYPICAL BERM SECTION



TYPICAL FRONTAGE ROAD SECTION

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN			DESIGN SHEET TYPICAL SECTIONS	
CHECKED				
TEAM LEADER				
ROUTE	SR 101L	LOCATION	PRICE, FIRST ST - BASELINE	SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF









F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

[illegible]

RANGE NO.		1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55	70
HEIGHT (F <sub>+</sub> )	≤	3	5	8	11	15	20	25	30	40	55	70	90

● SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

☑ PIPE CORRUGATION			
A	2 <sup>2</sup> / <sub>3</sub> × 1/2	D	6 × 2
B	3 × 1	E	3 × 1 or 9 × 2 1/2
C	9 × 2 1/2		

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION <b>ROADWAY DESIGN SECTION</b>	
DESIGN					
DRAWN					
CHECKED					
TEAM LEADER					
				NEW PIPE SUMMARY SHEET	
ROUTE	LOCATION				
1-10	CIENEGA CREEK - MARSH STATION				
					SHEET 2 OF 2
TRACS NO. H2390 01 C				___ OF ___	



REV. DATE: 01/16/2009

REV. DATE: 01/16/2009

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

CSP - CORRUGATED STEEL PIPE

Station	DESCRIPTION										CSP					END TREATMENT															QUANTITIES					
	Plan Reference Number	Controlling Fill Height Range	Size	Length In Place (0.0)	In.	Ft.	Degree	Each	Ft.	Remove Existing Pipe	Ft.	Extend	In.				Each	End Section	C-13.25	S-Standard or Detail	S-Single / D-Double	Location	H (0.0)	L Wing (0.0)	L 18" Slotted Drain (0)	L 24" Slotted Drain (0)	Type	Elevation (0.00)	Depth	Inlet Depression C-15.70	Pipe Excavation (0)	Pipe Backfill (0)	Drainage Excavation (0)	Berm Embankment (0)	Dike Embankment (0)	Cubic Yard
REMARKS																																				
EB 1589+00.00	1	4	36	236.5	0			9	2	68	78	A	0.079					2																	SEE DETAIL D7, D8 & D9	
EB 1625+81.94	2	2	30	246.0	0						20	A	0.079					1																SEE DETAIL D12		
																					</															










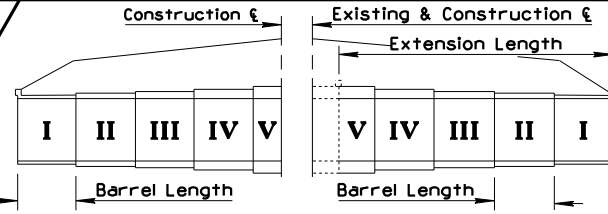
FILL HEIGHT RANGE TABLE (Ft.)												
RANGE NO.	1	2	3	4	5	6	7	8	9	10	11	12
FILL	>	1	3	5	8	11	15	20	25	30	40	55
HEIGHT (Ft.)	≤	3	5	8	11	15	20	25	30	40	55	70

● SHOULD FIELD CONDITIONS VARY FROM THE RANGE INDICATED, CONTACT DESIGN FOR RE-EVALUATION OF PIPE DESIGN REQUIREMENTS.

PIPE CORRUGATION			
A	2 2/3 x 1/2	D	6 x 2
B	3 x 1	E	3 x 1 or 9 x 2 1/2
C	9 x 2 1/2		

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

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

DESCRIPTION												END TREATMENT				LENGTH OF BARREL & BARREL EXTENSIONS										APPROXIMATE QUANTITIES							REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Plan Ref No.  & 	Structure Number	New	Extend	Number of Barrels	Barrel Span (0.0)	Barrel Height (0.0)	Culvert Length (0.0)	Skew (Degree) (0)	B-01.10 Miscellaneous Details	B-01.11 Extension Details	 Location	 Inlet Wings	 Outlet Wings	 Standard or Detail	WINGS	APRONS	MISCELLANEOUS	 Apron	 Standard or Detail	Scour/Bank Protection	 Standard or Detail	Energy Dissipators	Detail											Reinforcing Steel (0)	Place Dowels	Class S Concrete f'c=3,000 PSI	Remove Str Concrete	Structural Excavation (0)	Structure Excavation (0)	Berm Embankment (0)	Dike Embankment (0)	Drainage Excavation (0)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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NOTE:  
FOR STRUCTURAL EXCAVATION, STRUCTURE BACKFILL PLACEMENT  
AND MEASUREMENT, SEE STANDARD DRAWING B-19.50

NOTE:  
THE ZEROS IN PARENTHESES (0, 0.0 & 0.00) INDICATE  
THE DIMENSIONAL PRECISION FOR THAT COLUMN

▲ Construction & Looking Ahead

● TOTALS SHOWN FOR THE BOX CULVERT INCLUDE THE  
QUANTITIES FOR HEADWALLS, WINGS, APRONS, CURBS,  
CUT-OFF WALLS AND LAPS AT CONSTRUCTION JOINTS.

STRUCTURES SECTION STANDARD DRAWINGS  
JUNE, 1992 (PUBLICATION NO. 31-002)  
(ENGLISH EDITION)

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			CSP PIPE EXT SUMMARY SHEET & RCB CULVERT SUMMARY SHEET
CHECKED			
TEAM LEADER			
ROUTE	LOCATION		
I-10	CIENEGA CREEK - MARSH STATION		
TRACS NO. H2390 01 C			

SHEET 2 OF 2

OF

STD P-03.25

CADD TEXT PARAMETERS							
Reference No.	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
1	39	1	15	4	-	-	Use text data fields supplied with summary sheet
GRAPHIC PARAMETERS							
Reference No.	LV/CO=	WT=	LC=	Comments			
USER NOTES							
Reference No.	Comments						
Abbreviations: LV - LEVEL CO - COLOR FT - FONT TX - TEXT SIZE WT - LINE WEIGHT LS - LINE SPACING TJ - TEXT JUSTIFICATION							
Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units							
APPROVED FOR DISTRIBUTION							
STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES							
REV.							
SAMPLE REINFORCED CONCRETE BOX CULVERT AND BOX CULVERT EXTENSION SUMMARY SHEET						DRAWING NO. P-03.30 Sheet 1 of 2	

1

STD P-03.30





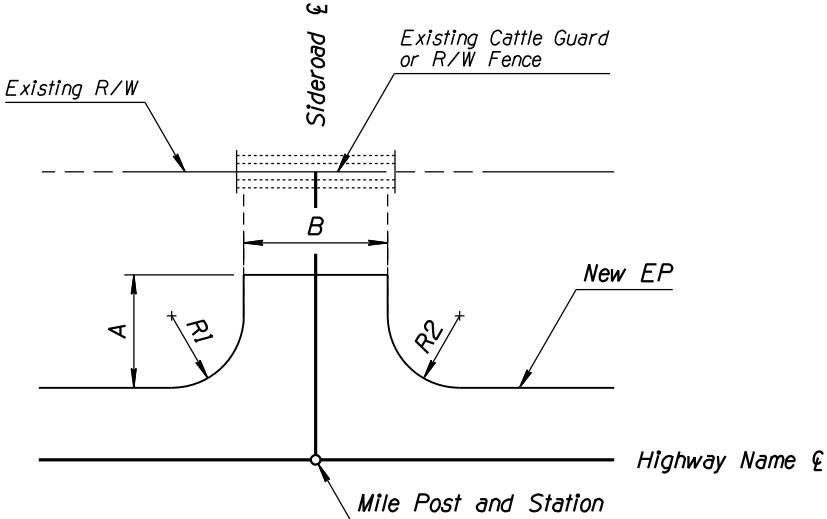


DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

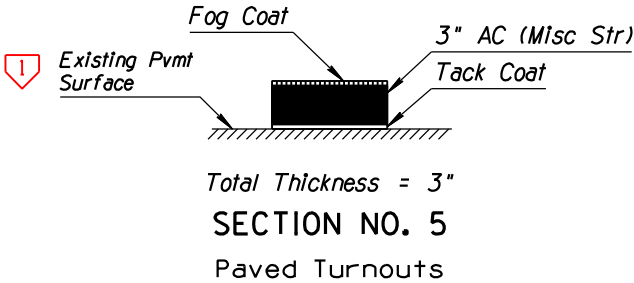
EXISTING TURNOUT TABLE										
Turnout Number	Mile Post	± Station	LT/RT	Paved or Unpaved	DIMENSIONS				Pvmt Str Sct No.	REMARKS
					A	B	R1	R2		
T1	31.91	1732+57	RT	Paved	30	25	30	30	5	
T2	34.29	1858+23	RT	Paved	30	25	30	30	5	Ramsey Mine Rd
T3	34.53	1870+90	LT	Paved	30	25	30	30	5	Perry Rd
T4	34.57	1873+02	LT	Paved	30	25	30	30	5	
T5	34.6	1874+61	LT	Paved	30	25	30	20	5	Skew 45 Deg.
T6	34.69	1879+36	RT	Unpaved	30	25	30	30	6	
T7	34.7	1879+89	LT	Unpaved	30	25	30	30	6	
T8	34.72	1880+95	LT	Paved	30	25	30	30	5	
T9	34.72	1880+95	RT	Unpaved	30	25	30	30	6	
T10	34.75	1882+53	LT	Unpaved	30	25	30	30	6	
T11	34.76	1883+06	RT	Unpaved	30	25	30	30	6	
T12	34.8	1885+17	LT	Paved	30	25	30	20	5	Skew 45 Deg.
T13	34.89	1889+92	RT	Unpaved	30	25	30	30	6	
T14	34.94	1892+56	LT	Paved	30	25	30	30	5	Twin Buttes Rd
T15	35.06	1898+89	RT	Unpaved	30	25	30	30	6	
T16	35.12	1902+06	RT	Paved	30	25	30	30	5	
T17	35.14	1903+12	RT	Paved	30	25	30	30	5	
T18	35.22	1904+36	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T19	35.24	1905+42	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T20	35.26	1906+47	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T21	35.32	1909+64	LT	Unpaved	30	25	30	30	6	Black Rock RV Village
T22	36.59	1976+70	LT	Paved	30	25	30	30	5	Flying Crown Ranch Rd
T23	38.17	2060+12	LT	Unpaved	30	25	30	30	6	
T24	38.22	2062+76	LT	Paved	30	25	30	30	5	
T25	38.36	2070+16	LT	Unpaved	30	25	30	30	6	
T26	38.8	2093+39	LT	Unpaved	30	25	30	30	6	
T27	38.85	2096+03	RT	Unpaved	30	25	30	30	6	
T28	38.9	2098+67	RT	Unpaved	30	25	30	30	6	
T29	39	2103+95	LT	Unpaved	30	25	30	30	6	
T30	39.11	2109+75	RT	Unpaved	30	25	30	30	6	
T31	39.44	2127+17	LT	Unpaved	30	25	30	30	6	
T32	39.48	2129+29	RT	Unpaved	30	25	30	30	6	
T33	39.72	2141+96	RT	Unpaved	30	25	30	30	6	
T34	39.84	2148+30	LT	Unpaved	30	25	30	30	6	
T35	40.08	2160+97	LT	Unpaved	30	25	30	30	6	
T36	40.2	2167+31	LT	Unpaved	30	25	30	30	6	
T37	40.3	2172+59	LT	Unpaved	30	25	30	30	6	
T38	40.47	2181+56	LT	Unpaved	30	25	30	30	6	
T39	40.55	2185+79	RT	Unpaved	30	25	30	30	6	
T40	40.58	2187+37	RT	Unpaved	30	25	30	30	6	
T41	40.72	2194+76	RT	Paved	30	25	30	30	5	
T42	40.73	2195+29	LT	Paved	30	25	30	30	5	
T43	42.45	2285+88	RT	Unpaved	30	25	30	30	6	
T44	42.5	2288+52	RT	Unpaved	30	25	30	30	6	
T45	42.61	2294+32	RT	Paved	30	25	30	30	5	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

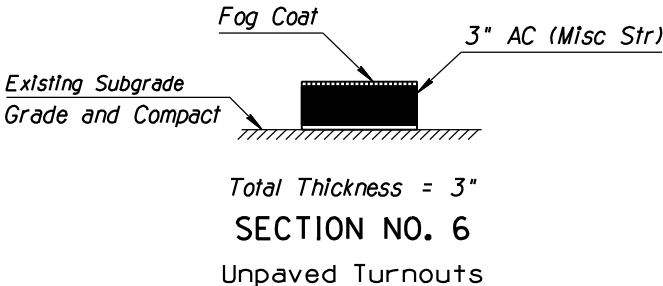
1 1



TURNOUT DETAIL



SECTION NO. 5  
Paved Turnouts



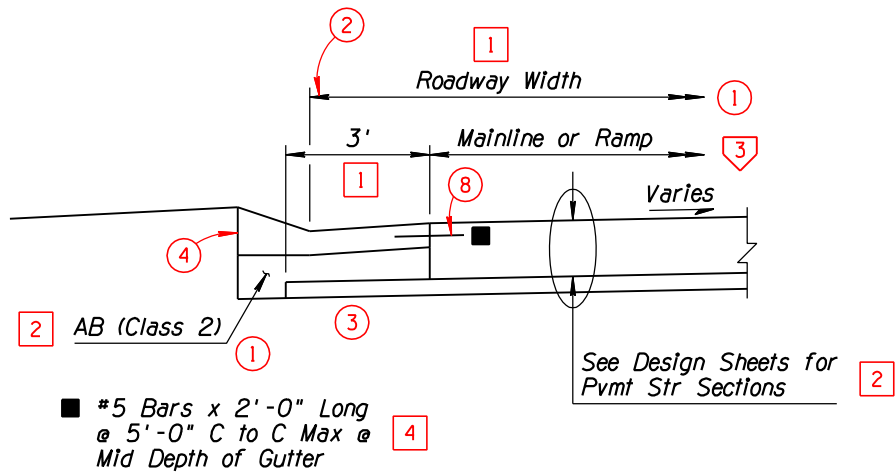
SECTION NO. 6  
Unpaved Turnouts

DETAIL C  
Sheet 1 of 2  
TURNOUTS

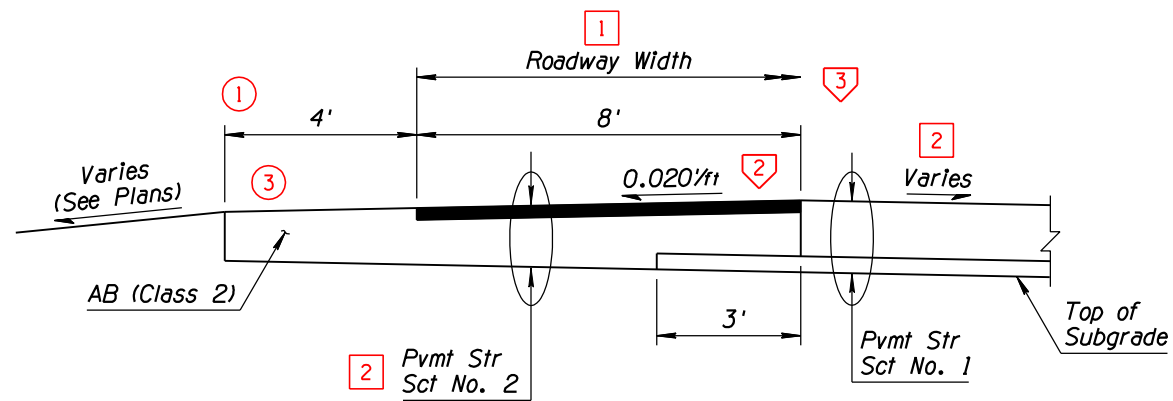
		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION			
DESIGN							
DRAWN							
CHECKED							
TEAM LEADER				TURNOUT TABLE AND DETAIL SHEET			
ROUTE		LOCATION				SHEET 2 OF 2	
TRACS NO.						___ OF ___	



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



OUTSIDE SHOULDER TREATMENT

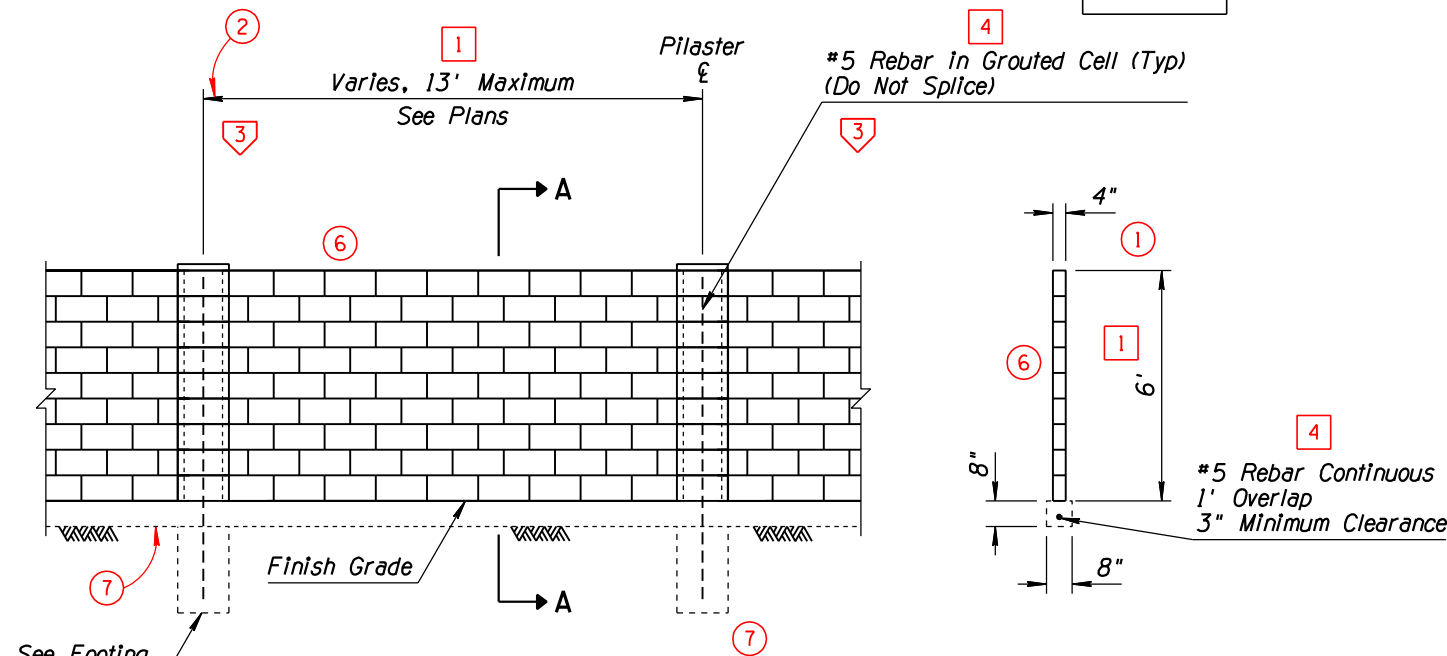


INSIDE SHOULDER TREATMENT

# DETAIL A

SHOULDER PAVEMENT TREATMENTS

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



ELEVATION

SECTION A-A

## NOTES

- Concrete shall be placed against undisturbed soil.
- Tongue & Groove Panel Blocks do not require mortared head joints. Mortared head joints shall be required for standard Panel Blocks.
- All concrete shall be Class B.
- Reinforcing Steel shall be in accordance with ASTM A-615, Grade 40.
- Masonry units shall be in accordance with ASTM C-90, Grade N Type 1  $f'_m = 1,350$  PSI.
- Mortar shall be in accordance with ASTM C-270, Type 'S'.
- Grout shall be in accordance with ASTM C-476,  $f'_c = 2,000$  PSI.

FOOTING ALTERNATIVE NO. 1 FOOTING ALTERNATIVE NO. 2

# DETAIL B

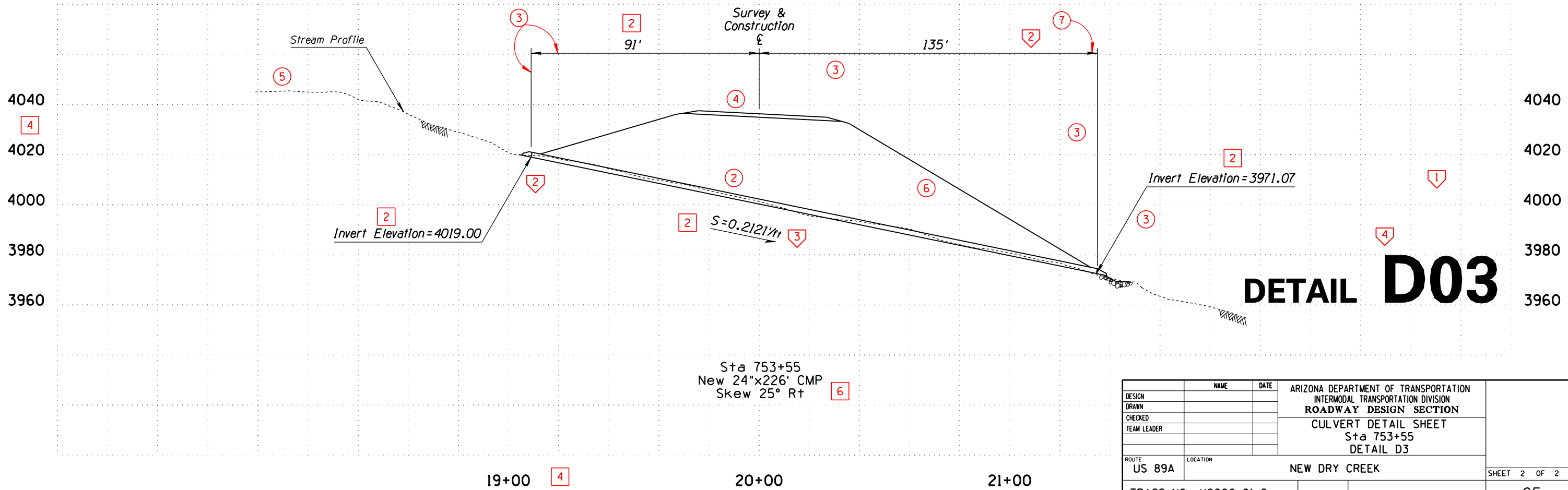
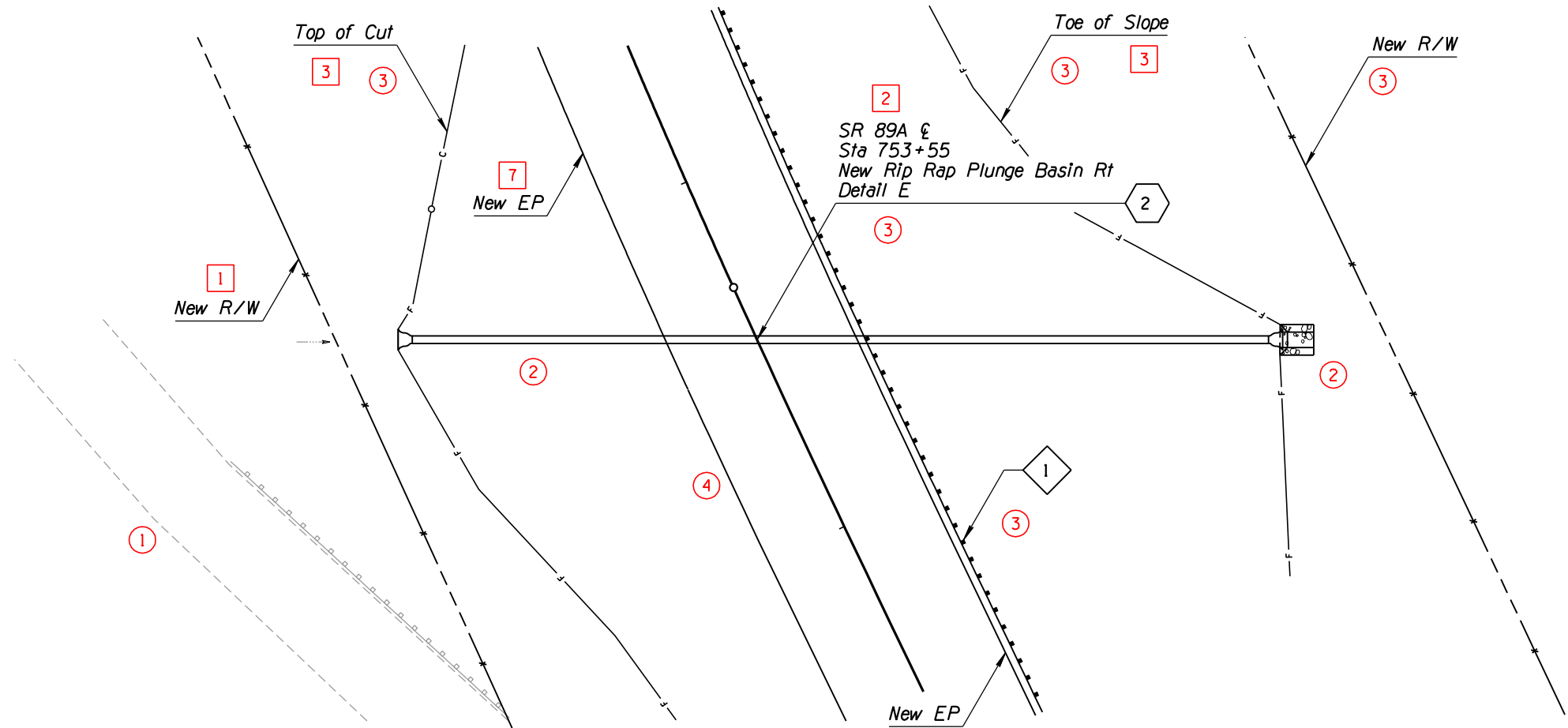
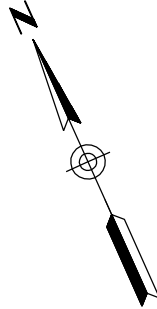
PRIVACY WALL FOOTING ALTERNATIVES

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION	PRICE, FIRST ST - BASELINE		
SR 101L				
TRACS NO. H0000 01 C				



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	AS BUILT
9	ARIZ.				














DETAIL D03

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN			CULVERT DETAIL SHEET	
CHECKED			Sta 753+55	
TEAM LEADER			DETAIL D3	
ROUTE	LOCATION			
US 89A	NEW DRY CREEK			SHEET 2 OF 2
TRACS NO. H0000 01 C				OF

STD P-05.10

NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	
4		4	

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	29	23	15	2	7.50	RB	
<div>2</div>	39	23	17.5	4	8.75	LB	
<div>3</div>	37	23	17.5	4	8.75	LB	
<div>4</div>	62	1	20	6	-	CB	
<div>5</div>	25	23	17.5	4	8.75	CB	
<div>6</div>	28	23	17.5	4	8.75	CB	
<div>7</div>	14	23	15	2	7.50	LB	
<div>8</div>	21	23	15	2	7.50	CB	
<div>9</div>	14	1	15	2	7.50	CB	
<div>10</div>	19	23	15	2	7.50	RB	

GRAPHIC PARAMETERS				
Reference No. 	LV/CO=	WT=	LC=	Comments
	16	1	3	
	38	3	0	
		1	0	 Dimension Line or Leader Line LV/CO shall match the LV/CO of the text placed for that item
	35	3	0	
	59	1	5	
	37	3	0	
	-	-	-	ADOT Standard Line Terminator; typical. The LV/CO shall match the LV/CO of the text placed for that item
	29	1	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

Abbreviations:

LV - LEVEL

CO - COLOR

FT - FONT

TX - TEXT SIZE

WT - LINE WEIGHT

LS - LINE SPACING

TJ - TEXT JUSTIFICATION

- Text Reference Callout

- Graphic Reference Callout

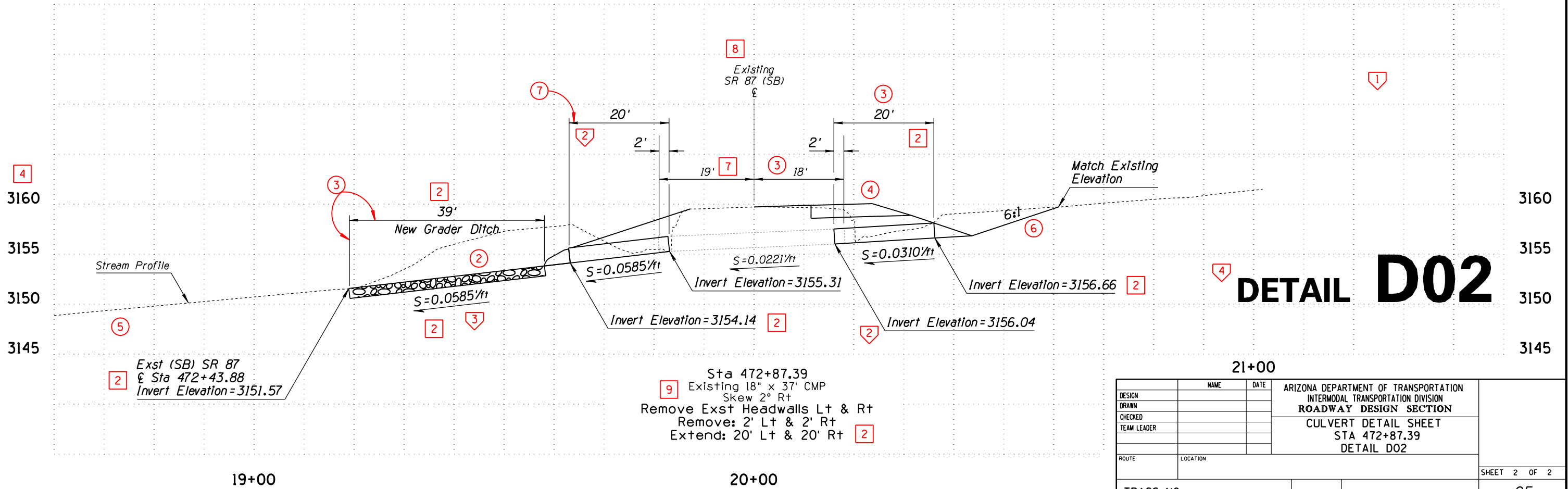
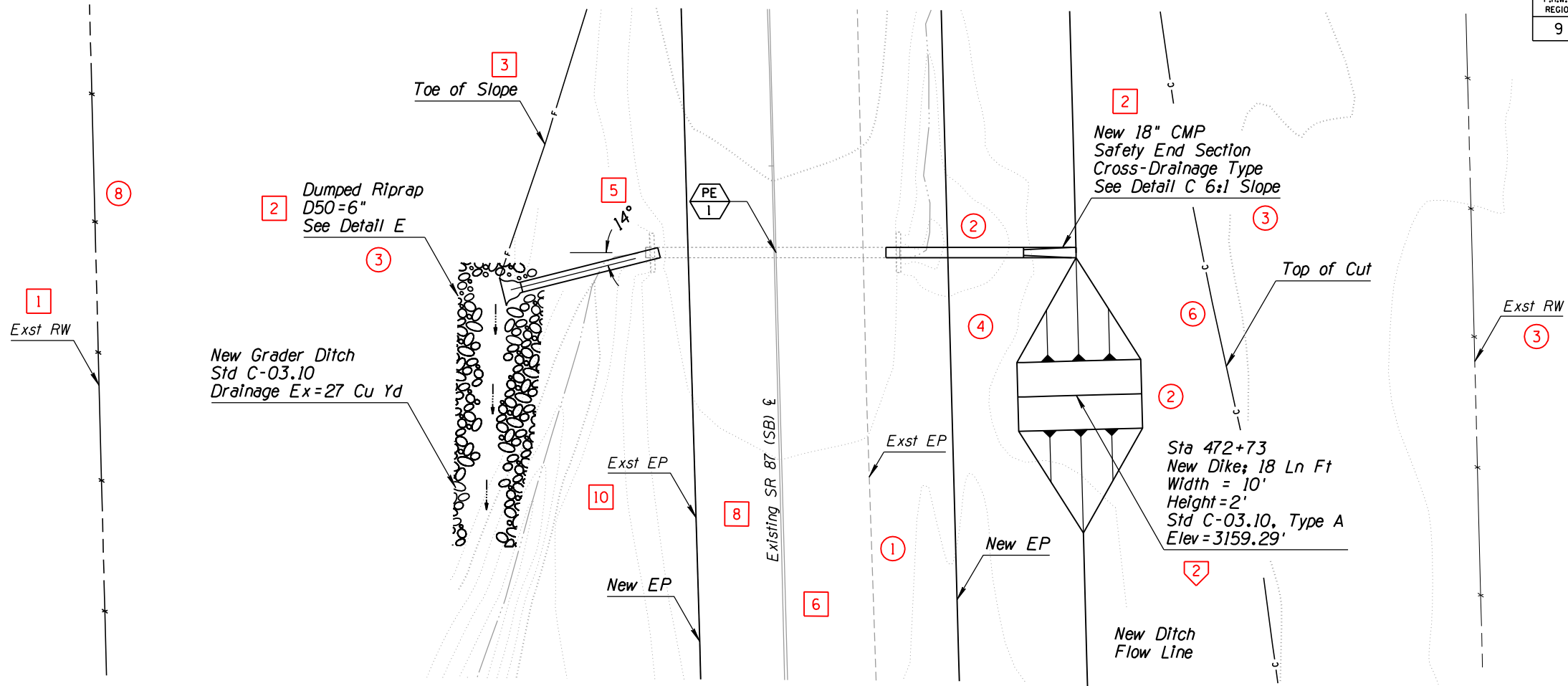
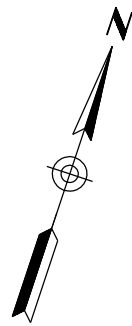
- User Note Reference Callout

Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units

USER NOTES	
Reference No.	<div></div> Comments
<div>1</div>	See Std P-00.70 for Profile Sheet Overlay
<div>2</div>	See Std P-00.60 & P-00.61 for Dimension & Leader Line Layout
<div>3</div>	Show slope in feet per foot to 4 decimal places
<div>4</div>	See Std P-00.61 for Detail Format Layout

APPROVED FOR DISTRIBUTION	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN SECTION DRAFTING GUIDES	REV.
SAMPLE CULVERT DETAIL SHEET FOR PIPE EXTENSION		DRAWING NO. P-05.20 Sheet 1 of 2

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



**DETAIL D02**

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			
CHECKED			
TEAM LEADER			
			CULVERT DETAIL SHEET STA 472+87.39 DETAIL D02

SHEET 2 OF 2

TRACS NO.

OF

STD P-05.20

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	39	23	17.5	4	8.75	LB	
<div>2</div>	30	23	17.5	4	8.75	LB	
<div>3</div>	14	1	15	2	7.5	CB	
<div>4</div>	62	1	20	6	-	CC	
<div>5</div>	14	23	15	2	7.5	CB	
<div>6</div>	28	23	17.5	4	8.75	CB	
<div>7</div>	37	23	17.5	4	8.75	LB	
<div>8</div>	39	1	17.5	4	8.75	CB	
<div>9</div>	36	23	17.5	4	8.75	LB	
<div>10</div>	19	23	15.0	2	7.50	LB	

GRAPHIC PARAMETERS				
Reference No. <div></div>	LV/CO=	WT=	LC=	Comments
<div>1</div>	35	3	0	
<div>2</div>	<div></div>	1	0	<div></div> Dimension or Leader Line LV/CO shall be the same LV/CO as the text placed for that item
<div>3</div>	38	3	0	
<div>4</div>	-	-	-	ADOT Standard Line Terminator; typical. LV/CO shall match the LV/CO of the text placed for that item
<div>5</div>	16	1	3	
<div>6</div>	13	1	1	
<div>7</div>	37	3	0	
<div>8</div>	59	1	5	

NOTE: For project related sheets, see Standards P-05.10 & P-07.25

Abbreviations: LV - LEVEL  
CO - COLOR  
FT - FONT  
TX - TEXT SIZE  
WT - LINE WEIGHT  
LS - LINE SPACING  
TJ - TEXT JUSTIFICATION

- Text Reference Callout  
 - Graphic Reference Callout  
 - User Note Reference Callout

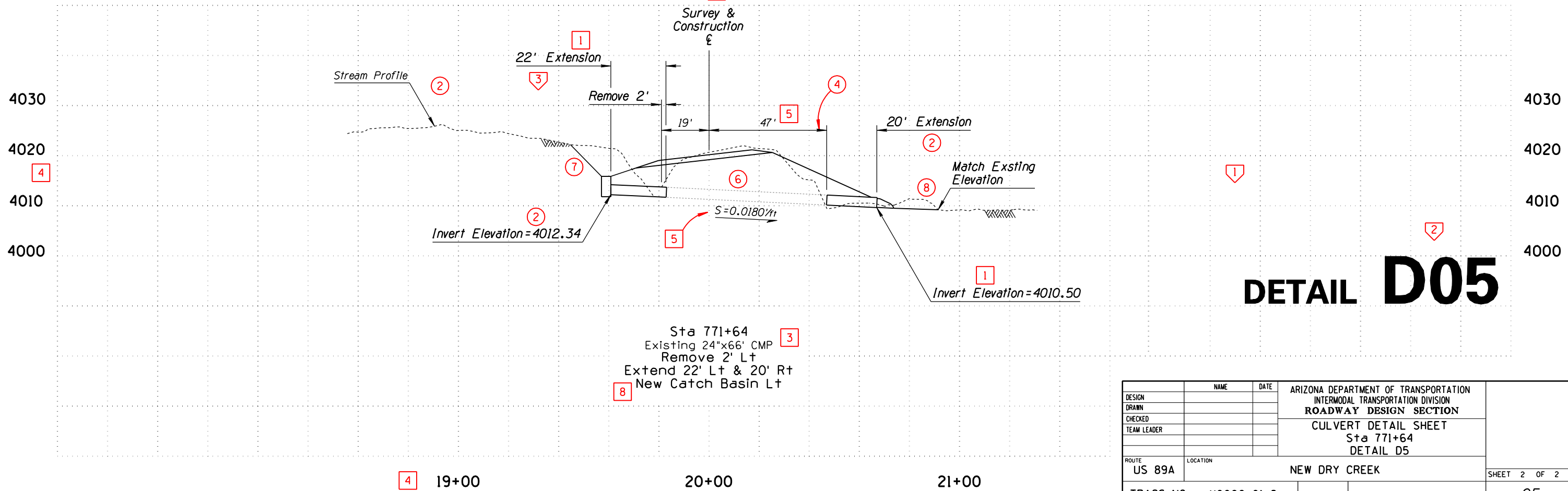
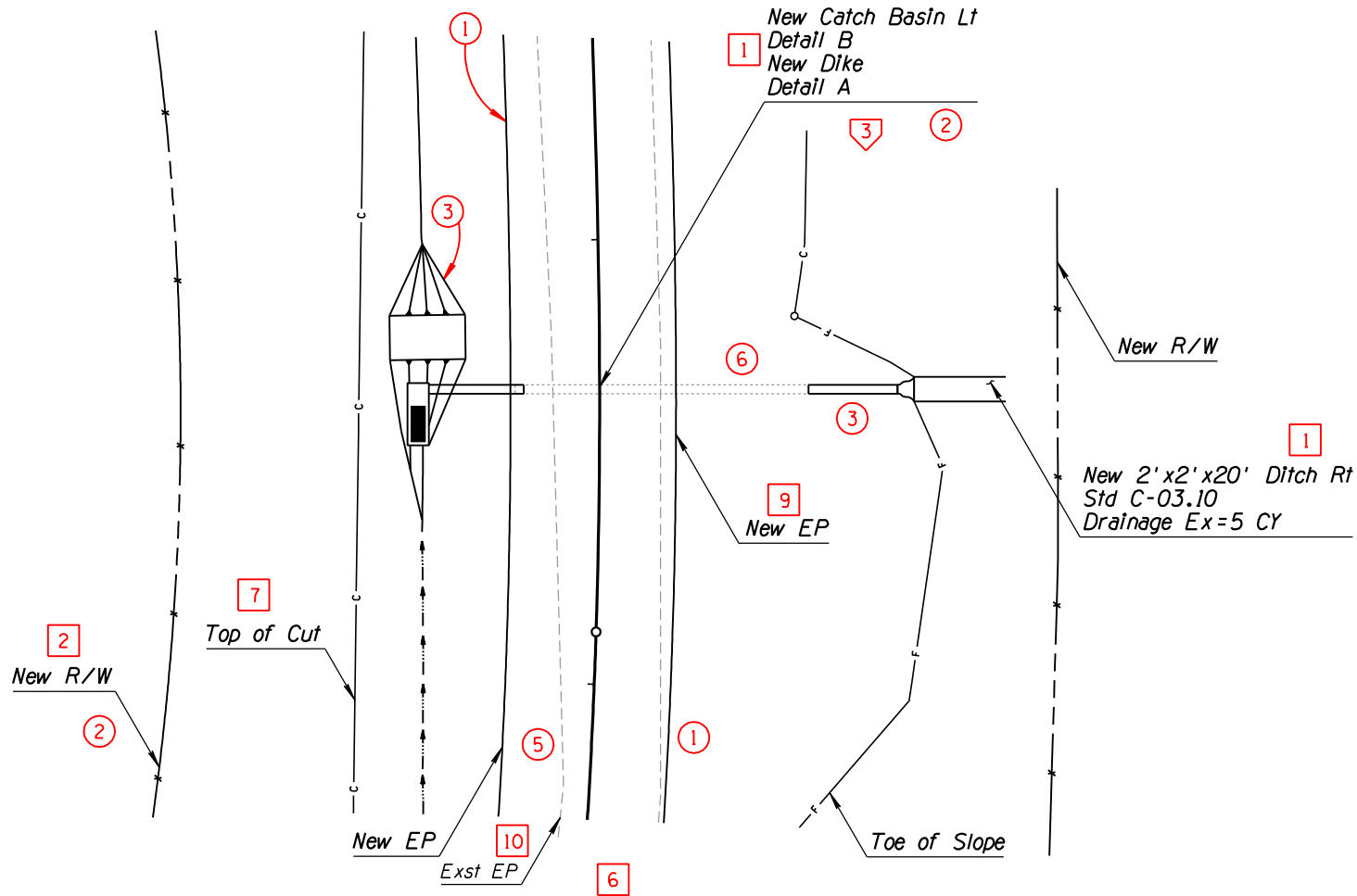
Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units

Reference No. <div></div>	Comments
<div>1</div>	See Std P-00.70 for Profile Sheet Overlay
<div>2</div>	See Std P-00.61 for Detail Sheet Format
<div>3</div>	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout



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	AS BUILT
9	ARIZ.				



DETAIL D05

Sta 771+64  
Existing 24"x66' CMP  
Remove 2' Lt  
Extend 22' Lt & 20' Rt  
New Catch Basin Lt

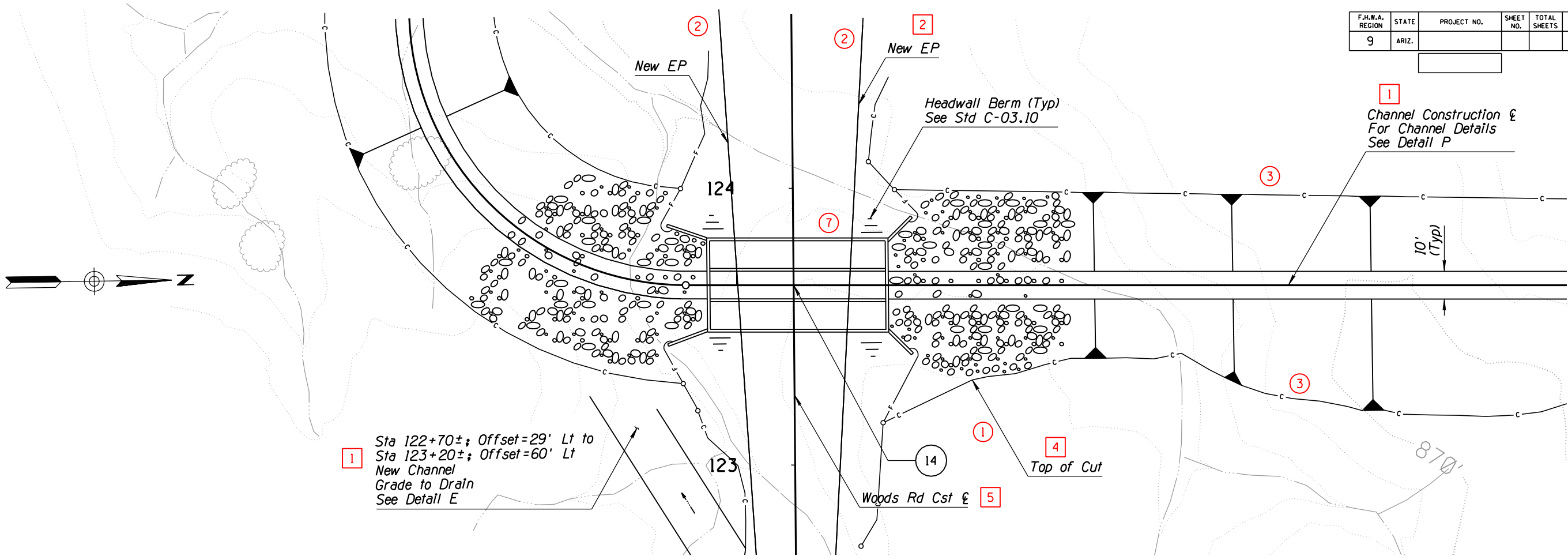
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN			CULVERT DETAIL SHEET	
CHECKED			Sta 771+64	
TEAM LEADER			DETAIL D5	
ROUTE	LOCATION			
US 89A	NEW DRY CREEK			SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF

STD P-05.25

NO.	DESCRIPTION OF REVISION
1	
2	

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	AS BUILT
9	ARIZ.				



1 Sta 122+70±; Offset=29' Lt to Sta 123+20±; Offset=60' Lt New Channel Grade to Drain See Detail E

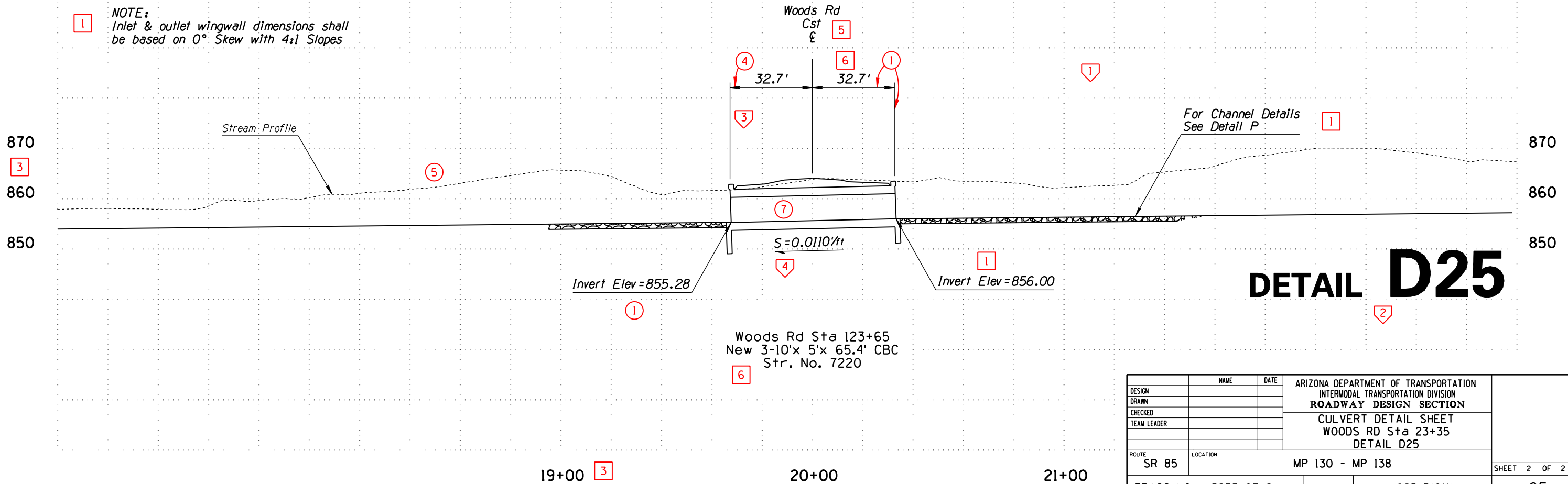
Woods Rd Cst & 5

4 Top of Cut

1 Channel Construction & For Channel Details See Detail P

870'

1 NOTE: Inlet & outlet wingwall dimensions shall be based on 0° Skew with 4:1 Slopes



Woods Rd Sta 123+65 New 3-10'x 5'x 65.4' CBC Str. No. 7220

S=0.0110/ft

Invert Elev=855.28

Invert Elev=856.00

DETAIL D25

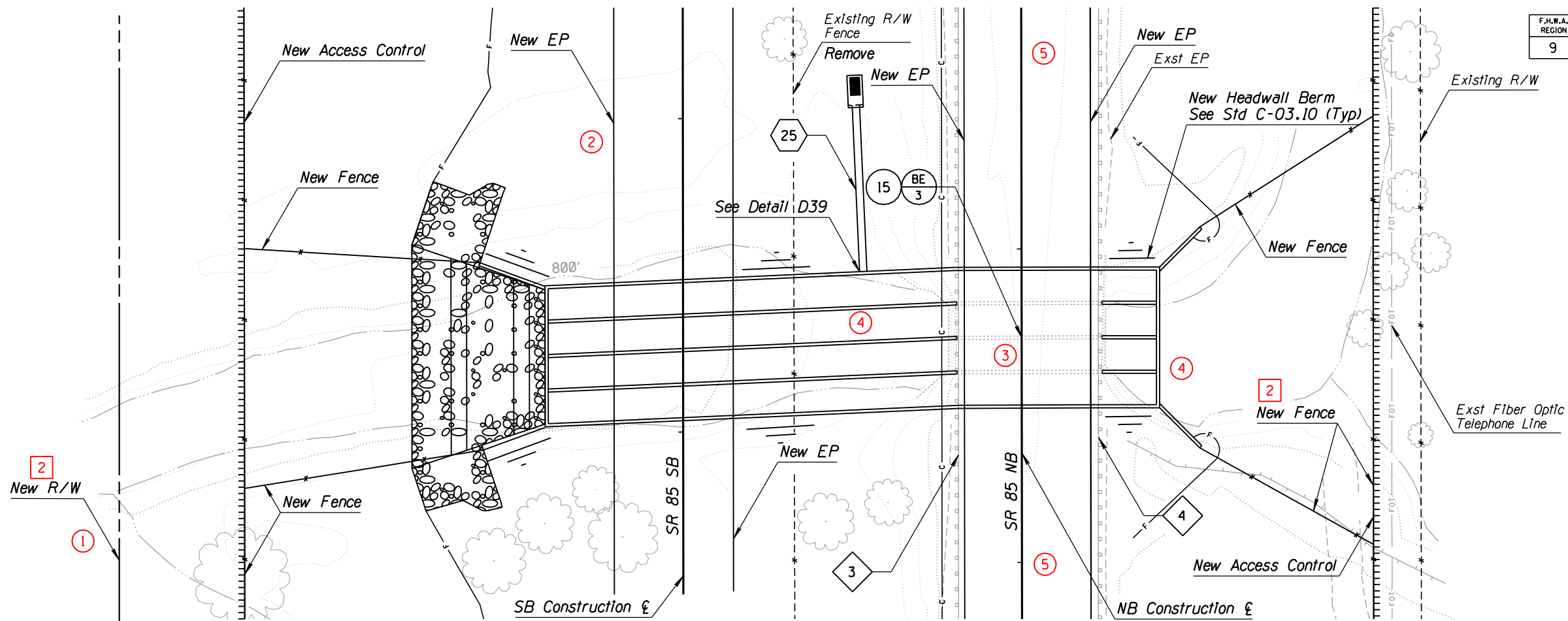
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN			CULVERT DETAIL SHEET WOODS RD Sta 23+35 DETAIL D25	
CHECKED				
TEAM LEADER				
ROUTE	SR 85	LOCATION	MP 130 - MP 138	SHEET 2 OF 2
TRACS NO.	H5955 07 C		085-B(011)	OF

STD P-05.30

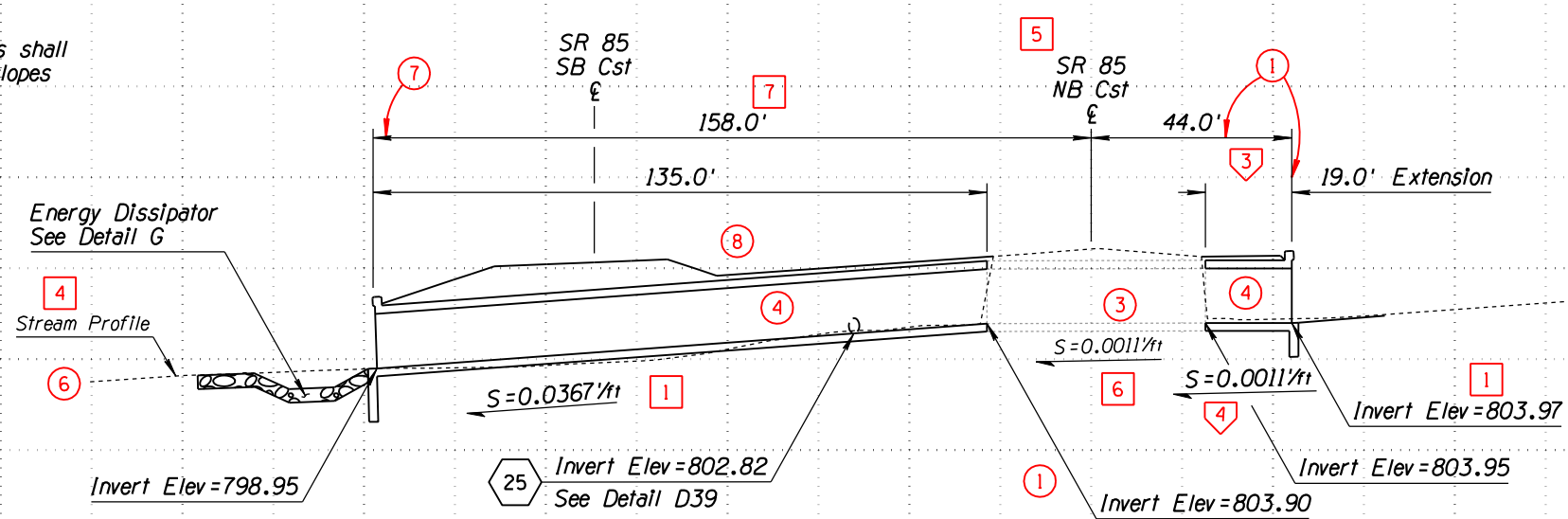
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DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO. DATE- LOCATION- REVISIONS- FINISHED PLANS- SURVEY NO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



NOTE:  
Inlet & outlet wingwall dimensions shall be based on 0° skew with 6:1 slopes



# DETAIL D15

NB Sta 5787+72  
Existing 2 - 10' x 6' x 48' CBC  
Remove Exst Wingwalls  
Extend 135.0' Lt  
Deflection Angle = 2°18' Lt  
Extend 19.0' Rt  
New 2 - 10' x 6' x 202' CBC  
Str. No. 7210

21+00

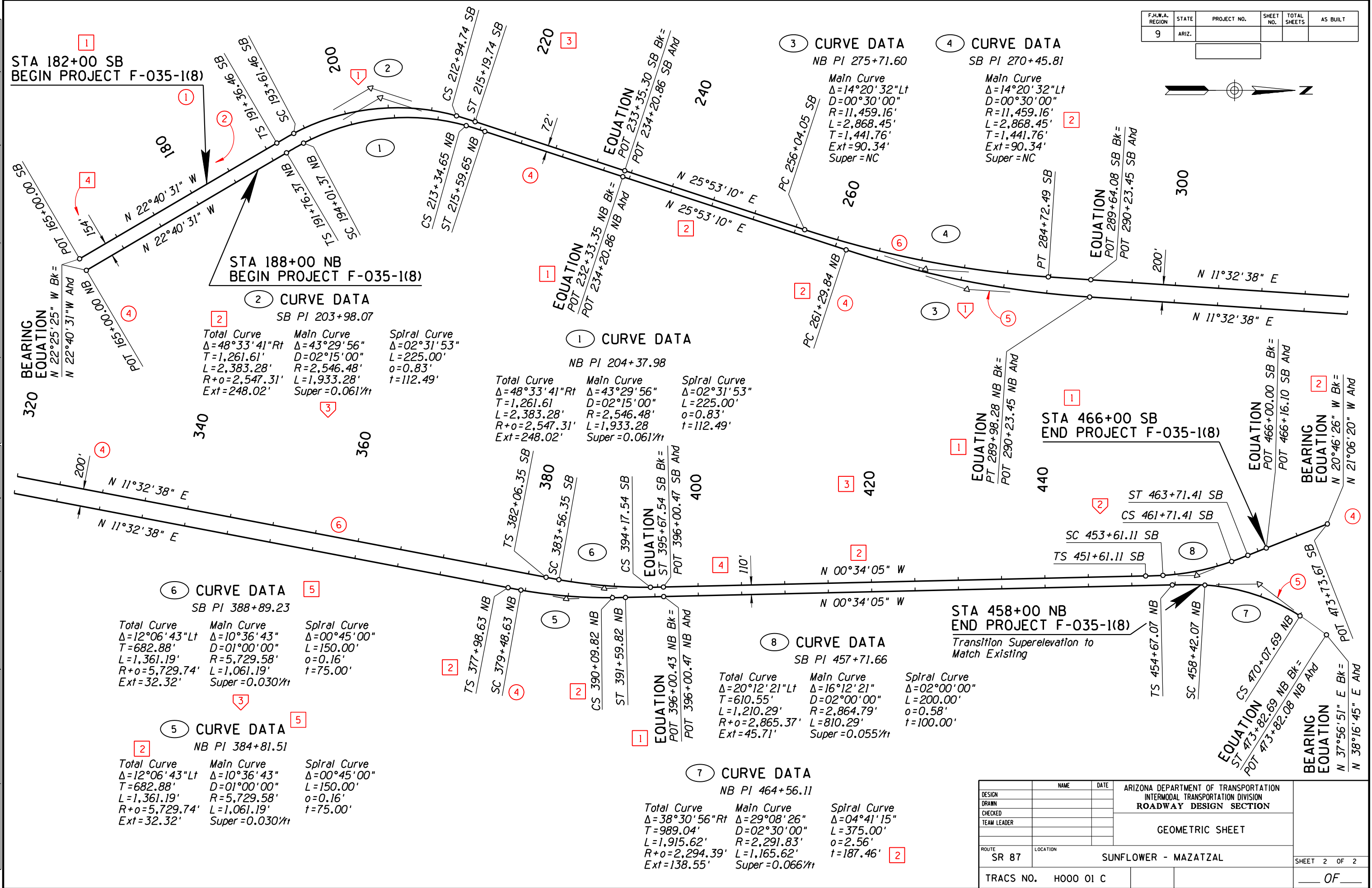
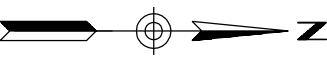
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN			CULVERT DETAIL SHEET	
CHECKED			NB Sta 5787+72	
TEAM LEADER			DETAIL D15	
ROUTE	SR 85	LOCATION	MP 130 - MP 138	SHEET 2 OF 2
TRACS NO.				OF

STD P-05.40

NO.	DESCRIPTION OF REVISION
1	
2	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_ REVISIONS: \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ FINISHED PLANS: \_\_\_\_\_

		NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DESIGN					
DRAWN					
CHECKED					
TEAM LEADER					
				GEOMETRIC SHEET	
ROUTE		LOCATION			
SR 87		SUNFLOWER - MAZATZAL			SHEET 2 OF 2
TRACS NO.		H000 01 C			___ OF ___

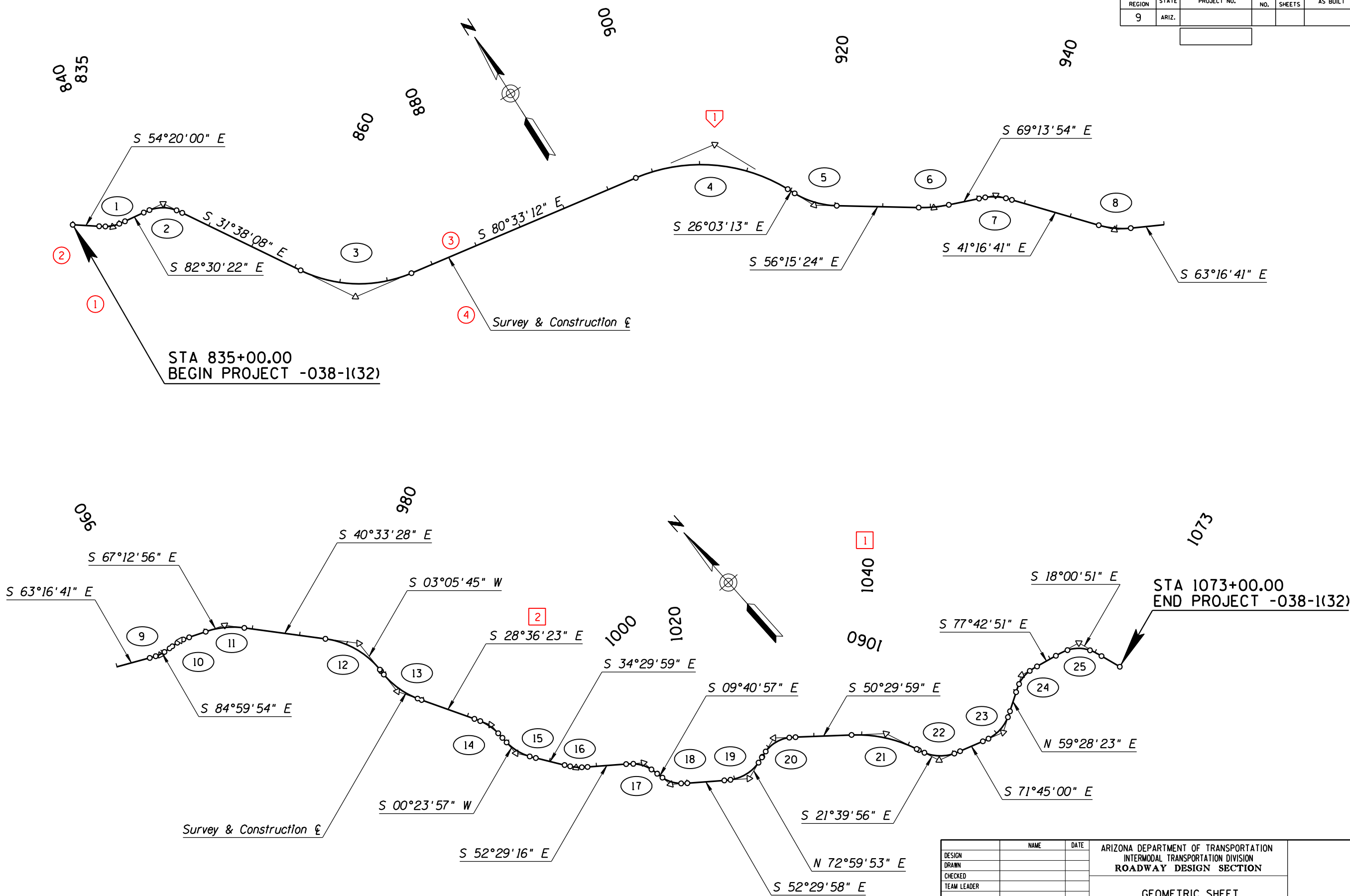
STD P-06.10

NO.	DESCRIPTION OF REVISION
1	
2	



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	AS BUILT
9	ARIZ.				



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	SR 88	LOCATION	RESORT ROAD - DEVORE WASH	SHEET 2 OF 2
TRACS NO.	H4076 01 C		088 GI 255	OF

[illegible]

Centerline Geometric Data Sheet  
Use this sheet ONLY if the project was surveyed

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



PLAN REF NO.	DESCRIPTION	Point Type	STATION	COORDINATES		Spiral Total					Spiral Main or Circular Curve							Spiral Curve			
				Northing	Easting	Total Delta	T	L	R+o	Ext	Δ	D	R	L	T	Ext	Super	Δ	L	o	†
	Survey & Construction £	POB	835+00.00	292935.35	128667.28																
①	Survey & Construction £	PI	839+19.09	292690.99	129007.75	28°10'23"Lt	141.75'	278.89'	435.40'	13.90'	19°36'41"	13°10'17"	435.00'	148.89'				4°16'51"	65.00'	0.40'	32.49'
	Survey & Construction £	TS	837+77.34	292773.64	128892.59																
	Survey & Construction £	SC	838+42.34	292737.08	128946.31																
	Survey & Construction £	CS	839+91.23	292682.58	129084.10																
	Survey & Construction £	ST	840+56.23	292672.51	129148.29																
②	Survey & Construction £	PI	844+95.53	292615.21	129583.85	50°52'14"Rt	222.94'	420.14'	400.44'	43.42'	41°33'36"	14°19'26"	400.00'	290.14'				4°39'19"	65.00'	0.44'	32.49'
	Survey & Construction £	TS	842+72.60	292644.29	129362.81																
	Survey & Construction £	SC	843+37.60	292634.07	129426.98																
	Survey & Construction £	CS	846+27.74	292479.78	129665.21																
	Survey & Construction £	ST	846+92.74	292425.40	129700.78																
③	Survey & Construction £	PI	867+06.38	290710.98	130756.97						48°55'04"Lt	4°05'33"	1400.00'	1195.29'	636.80'	138.02'					
	Survey & Construction £	PC	860+69.58	291253.16	130422.95																
	Survey & Construction £	PT	872+64.87	290606.46	131385.13																
④	Survey & Construction £	PI	907+11.36	290040.79	134784.89						54°29'59"Rt	3°17'34"	1740.00'	1655.08'	896.15'	217.21'					
	Survey & Construction £	PC	898+15.21	290187.88	133900.89																
	Survey & Construction £	PT	914+70.29	289235.71	135178.49																
⑤	Survey & Construction £	PI	917+92.27	288946.44	135319.91						30°12'10"Lt	6°30'39"	880.00'	463.88'	237.47'	31.48'					
	Survey & Construction £	PC	915+54.81	289159.78	135215.61																
	Survey & Construction £	PT	920+18.69	288814.54	135517.37																
⑥	Survey & Construction £	PI	930+35.41	288249.77	136362.81						12°58'30"Lt	4°05'33"	1400.00'	317.04'	159.20'	9.02'					
	Survey & Construction £	PC	928+76.21	288338.21	136230.42																
	Survey & Construction £	PT	931+93.25	288193.32	136511.66																
⑦	Survey & Construction £	PI	936+94.11	288015.72	136979.98	27°57'13"Rt	176.93'	347.97'	580.30'	18.01'	21°31'57"	9°52'43"	580.00'	217.97'				3°12'38"	65.00'	0.30'	32.50'
	Survey & Construction £	TS	935+17.18	288078.46	136814.54																
	Survey & Construction £	SC	935+82.18	288054.29	136874.87																
	Survey & Construction £	CS	938+00.15	287930.79	137052.92																
	Survey & Construction £	ST	938+65.15	287882.75	137096.70																
⑧	Survey & Construction £	PI	949+82.70	287042.89	137833.97						22°00'01"Lt	6°30'39"	880.00'	337.90'	171.06'	16.47'					
	Survey & Construction £	PC	948+11.65	287171.44	137721.12																
	Survey & Construction £	PT	951+49.54	286965.98	137986.75																
⑨	Survey & Construction £	PI	959+72.13	286596.09	138721.48	21°43'12"Lt	116.98'	231.80'	440.40'	8.43'	13°15'21"	13°01'18"	440.00'	101.80'				4°13'55"	65.00'	0.40'	32.49'
	Survey & Construction £	TS	958+55.15	286648.70	138617.00																
	Survey & Construction £	SC	959+20.15	286620.91	138675.74																
	Survey & Construction £	CS	960+21.94	286593.15	138773.44																
	Survey & Construction £	ST	960+86.94	286585.89	138838.02																
⑩	Survey & Construction £	PI	962+24.47	286573.90	138975.03	17°46'58"Rt	101.39'	201.56'	440.40'	5.76'	9°19'07"	13°01'18"	440.00'	71.56'				4°13'55"	65.00'	0.40'	32.49'
	Survey & Construction £	TS	961+23.08	286582.74	138874.02																
	Survey & Construction £	SC	961+88.08	286575.49	138938.60																

All Coordinates Are Ground Coordinates And All Bearings Are Grid Bearings  
All bearings and angles have been rounded to the nearest second.  
Use the control points provided and their respective state plane coordinates to re-establish the centerline of each roadway.

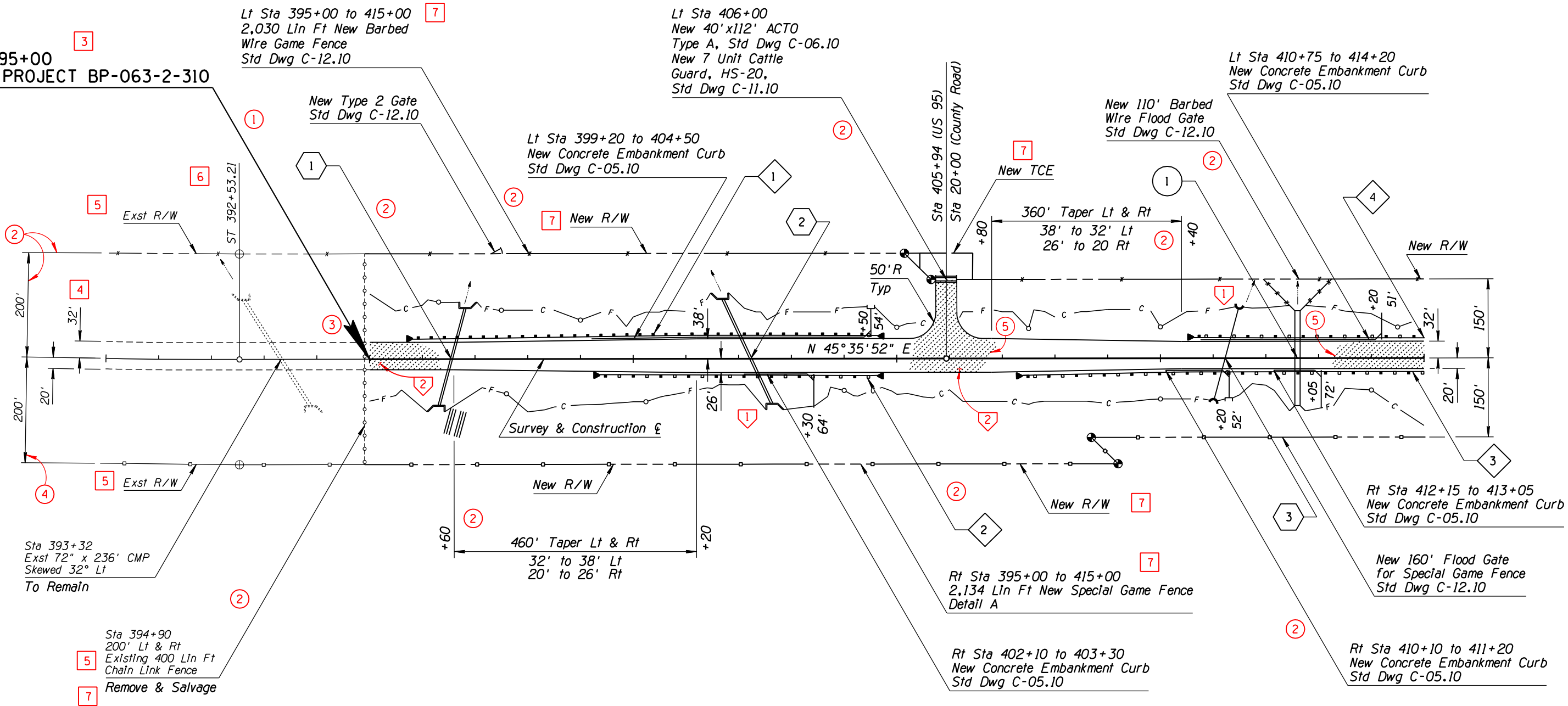
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DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION		GEOMETRIC DATA SHEET	
SR 88	RESORT ROAD - DEVORE WASH			
TRACS NO. H4076 01 C			088 GI 255	SHEET 2 OF 2

NO.	DESCRIPTION OF REVISION
1	
2	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

STA 395+00  
BEGIN PROJECT BP-063-2-310

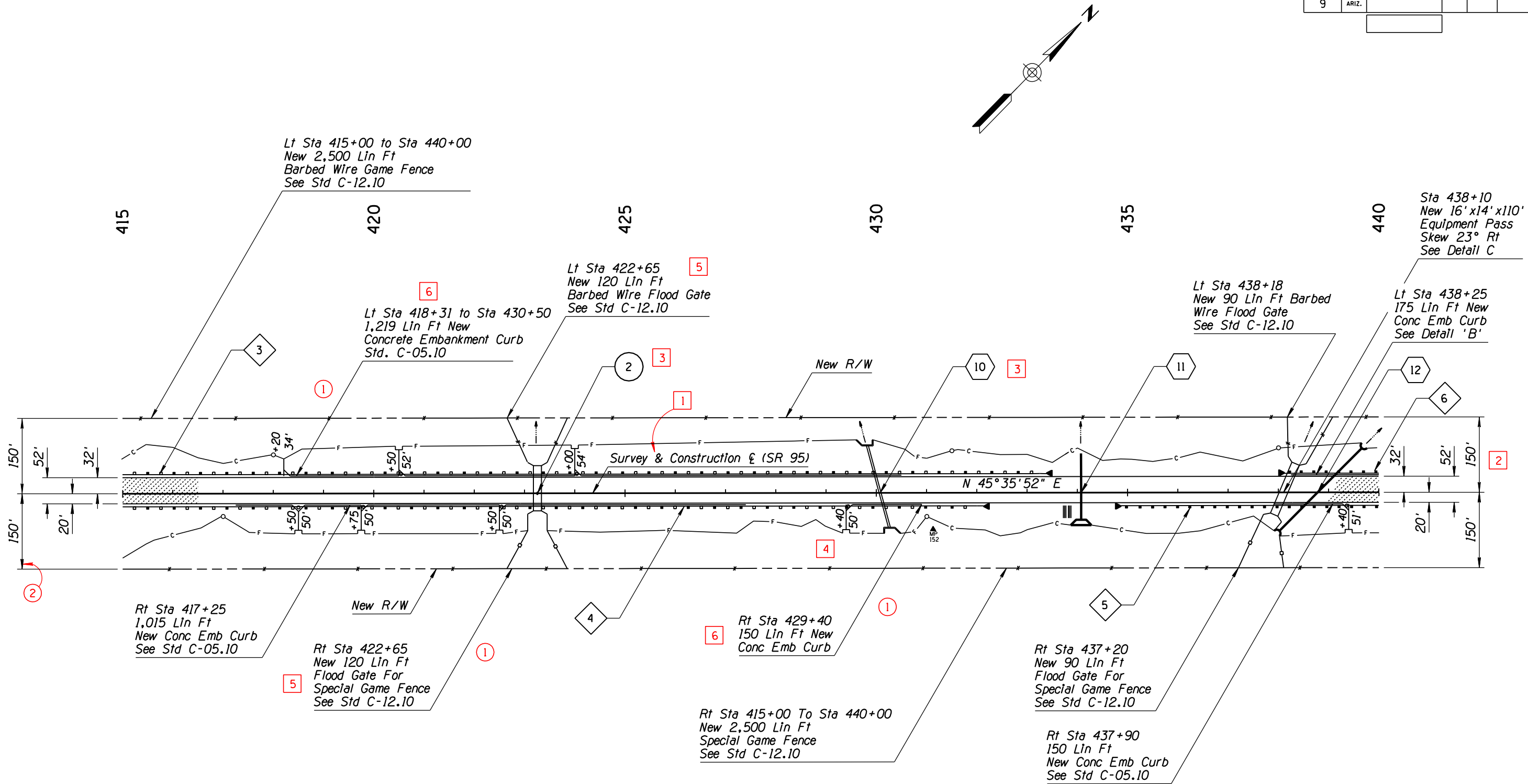


DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
			PLAN SHEET Sta 390+00 to 415+00	
ROUTE US 95	LOCATION OSBORN WASH - NORTH (UNIT II)			SHEET 2 OF 2
TRACS NO.	H0000 01 C			OF



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	AS BUILT
9	ARIZ.				



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE	LOCATION		PLAN SHEET Sta 415+00 to 440+00	
US 95	OSBORN WASH - NORTH (UNIT II)			SHEET 2 OF 2
TRACS NO. H0000 01 C				OF

STD P-07.21

NO. << >> A

DESCRIPTION OF REVISION

NO. << >> A

DESCRIPTION OF REVISION

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	14	23	15	2	7.5	LB	
<div>2</div>	39	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>3</div>	28	1	22	6	11	LC	
<div>4</div>	19	23	15	2	7.5	LB	
<div>5</div>	28	1	22	6	11	CB	
<div>6</div>	28	23	17.5	4	8.75	LB	TJ is LB unless otherwise shown
<div>7</div>	25	23	17.5	4	8.75	CB	
<div>8</div>	30	23	17.5	4	8.75	LB	
<div>9</div>	36	23	17.5	4	8.75	LB	
<div>10</div>	30	23	17.5	4	8.75	LB	
<div>11</div>	62	23	15	2	7.5	LB	
<div>12</div>	62	1	20	6	-	CB	Use data fields supplied with cell
<div>13</div>	62	23	15	2	7.5	LB	
<div>14</div>	29	23	15	2	7.5	LB	

GRAPHIC PARAMETERS				
Reference No. <div></div>	LV/CO=	WT=	LC=	Comments
<div>1</div>	<div>1</div>	1	0	<div>1</div> Dimension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
<div>2</div>	35	3	0	
<div>3</div>	16	1	3	
<div>4</div>	48	3	0	
<div>5</div>	59	1	0	
<div>6</div>	27	6	0	
<div>7</div>	38	3	0	

The subdued background shown can be produced by using a modified pen table. While this procedure is recommended to enhance the clarity of certain plan sheets, the use of this process is optional.

NOTE: For project related sheets, see Standards P-05.10 & P-05.25

Abbreviations: LV - LEVEL  
CO - COLOR  
FT - FONT  
TX - TEXT SIZE  
WT - LINE WEIGHT  
LS - LINE SPACING  
TJ - TEXT JUSTIFICATION

- Text Reference Callout

- Graphic Reference Callout

- User Note Reference Callout

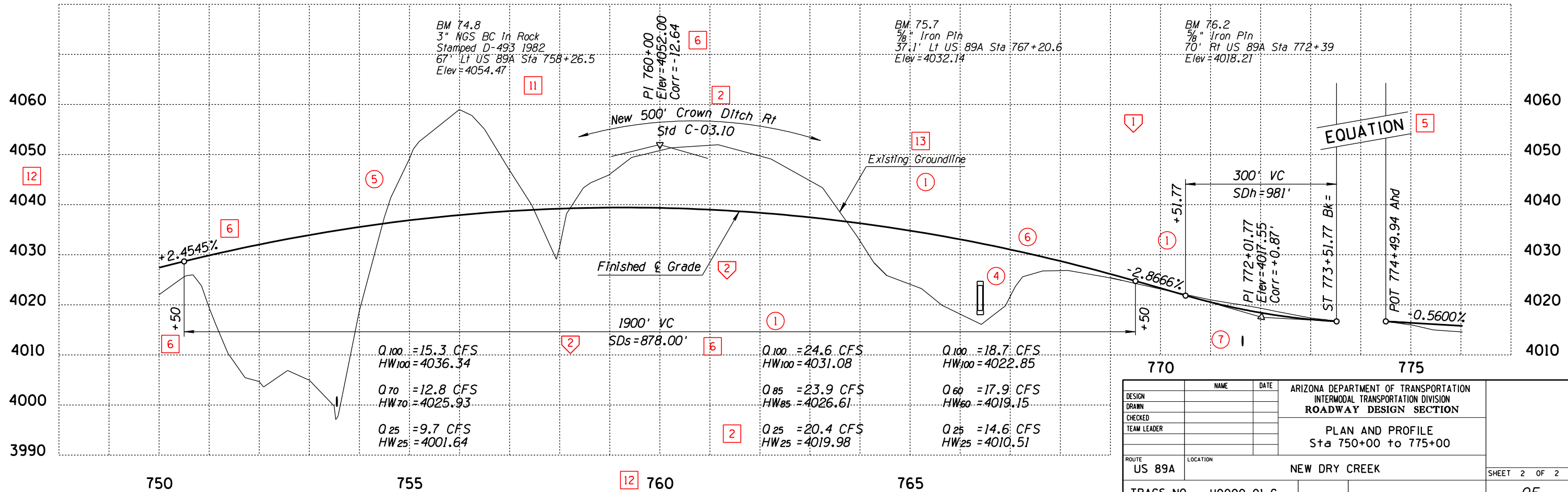
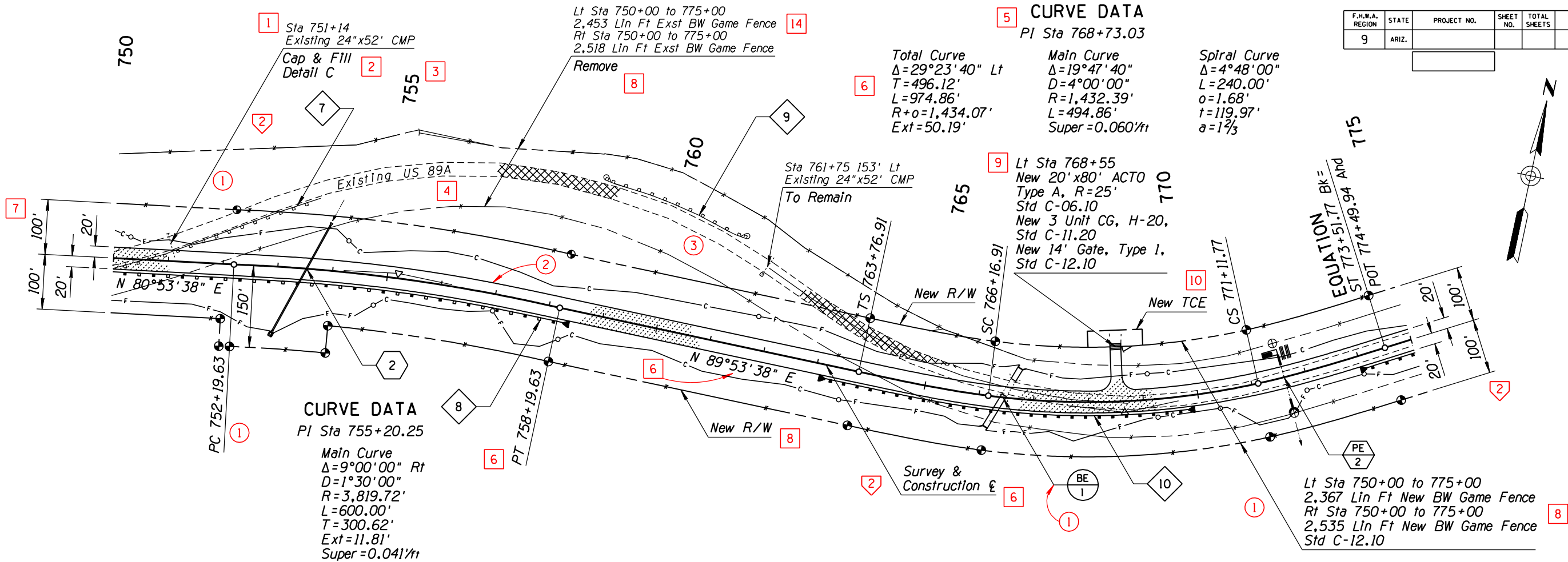
Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units

Reference No. <div></div>	Comments
<div>1</div>	See Std P-00.70 for Profile Sheet Overlay
<div>2</div>	See Stds P-00.60 & P-00.61 for Dimension & Leader Line Layout



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	AS BUILT
9	ARIZ.				



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			
CHECKED			
TEAM LEADER			
ROUTE	US 89A	LOCATION	NEW DRY CREEK
TRACS NO.	H0000 01 C		

SHEET 2 OF 2  
OF














STD P-07.25

NO.	DESCRIPTION OF REVISION
1	
2	



NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	
4		4	

CADD TEXT PARAMETERS							
Reference No. <div></div>	LV/CO=	FT=	TX=	WT=	LS=	TJ=	Comments
<div>1</div>	62	23	15	2	7.5	LB	
<div>2</div>	62	1	20	2	-	CC	Use data fields supplied with cell and change weight
<div>3</div>	62	1	20	6	-	CC	Use data fields supplied with cell
<div>4</div>	39	23	17.5	4	8.75	LB	
<div>5</div>	28	23	17.5	4	8.75	CB	TJ=CT if text string is placed under text line
<div>6</div>	28	1	22	6	11	LB	TJ=LT if text string is placed under text line
<div>7</div>	28	23	17.5	4	8.75	LB	
<div>8</div>	21	23	15	2	7.5	LB	

GRAPHIC PARAMETERS				
Reference No. 	LV/CO=	WT=	LC=	Comments
	20	1	3	
	28	4	0	ADOT Standard Line Terminator; modify scale 4 times larger
	59	1	0	
		1	0	 Dimension, extension or Leader Line LV/CO shall match the LV/CO of the text placed for that item
	-	-	-	ADOT Standard Line Terminator, typical. LV/CO shall match the LV/CO of the text placed for that item
	38	3	0	
	13	1	5	
	27	6	0	
	28	4	0	
	48	3	0	

NOTE: For project related sheets, see Standards P-02.20, P-07.20 & P-07.21

Abbreviations: LV - LEVEL  
CO - COLOR  
FT - FONT  
TX - TEXT SIZE  
WT - LINE WEIGHT  
LS - LINE SPACING  
TJ - TEXT JUSTIFICATION

- Text Reference Callout

- Graphic Reference Callout

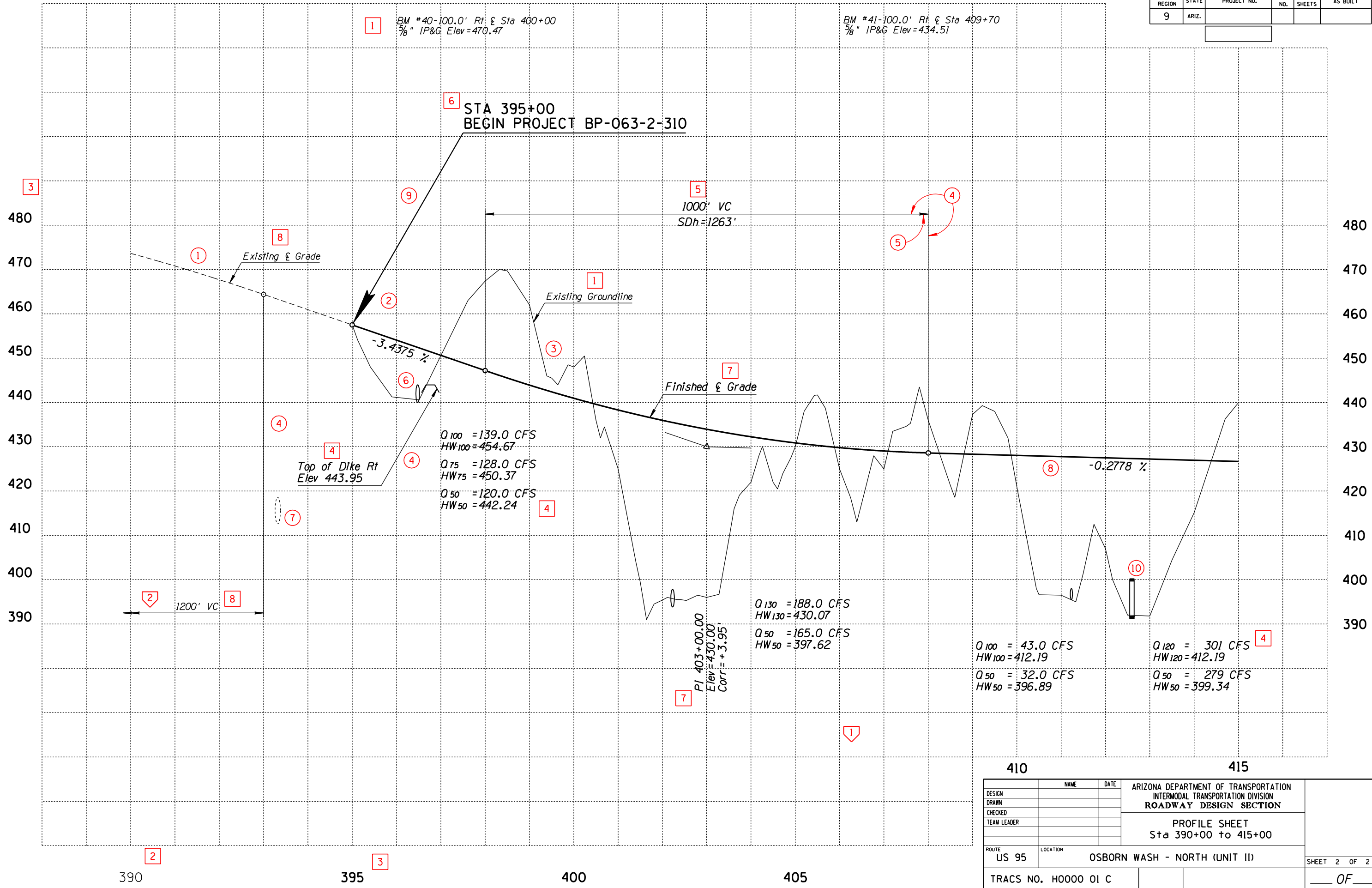
- User Note Reference Callout

Units of Measure for 'TX=' and 'LS=' are expressed in feet, (scale - 1"=100') using ADOT's Standard Working Units

Reference No.	<div></div>	Comments
<div>1</div>		See Std P-00.70 for Profile Sheet Overlay
<div>2</div>		Double Line Terminators are shown for continuation on an adjacent sheet

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

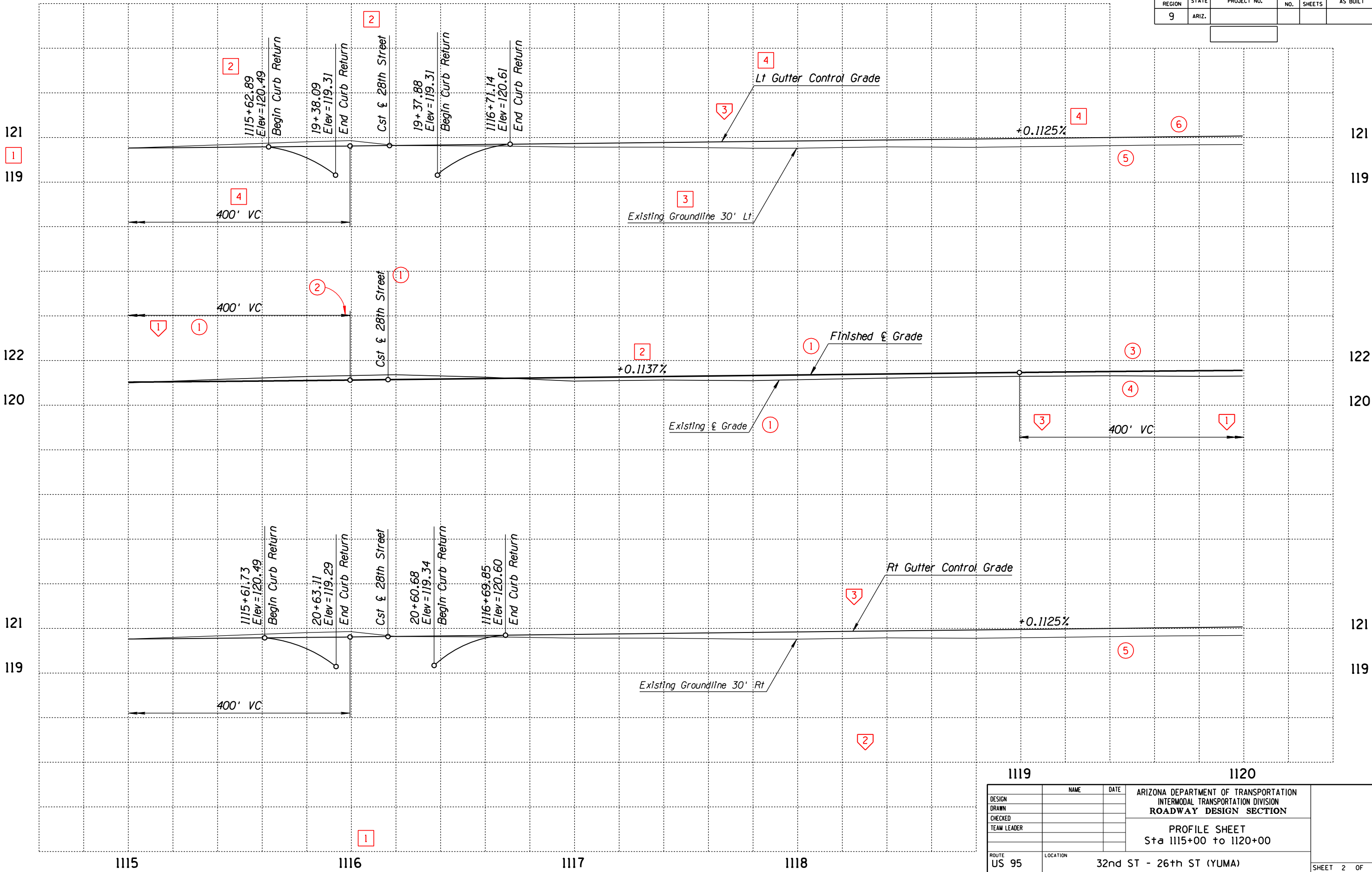
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				







F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



1119		1120		
DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE US 95			LOCATION 32nd ST - 26th ST (YUMA)	SHEET 2 OF 2
TRACS NO. H0000 01 C				

PROFILE SHEET  
Sta 1115+00 to 1120+00

OF





F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

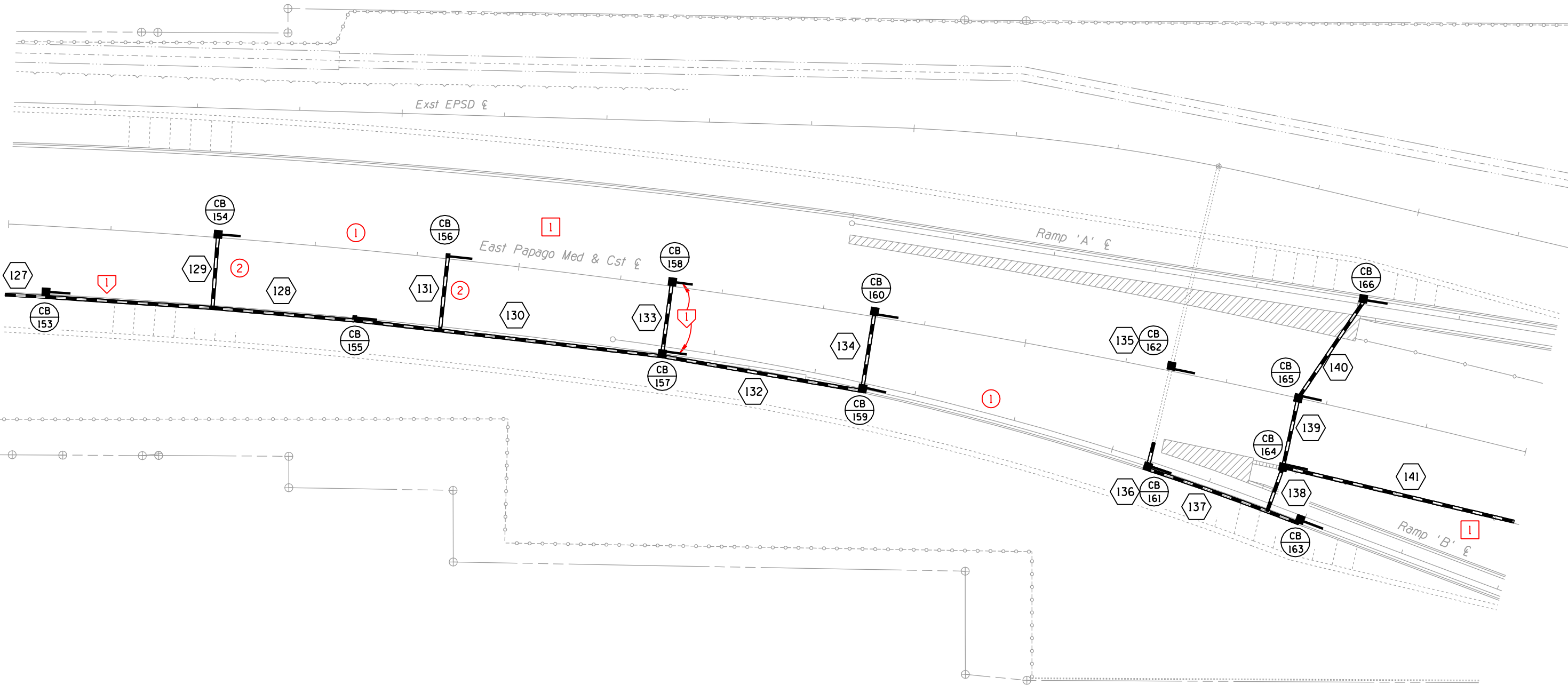


1030

1035

1040

1045



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			EAST PAPAGO MAINLINE STORM DRAIN PLAN SHEET
CHECKED			Sta 1030+00 to 1045+00
TEAM LEADER			

ROUTE	LOCATION
202L	JCT I-10 - 40th STREET

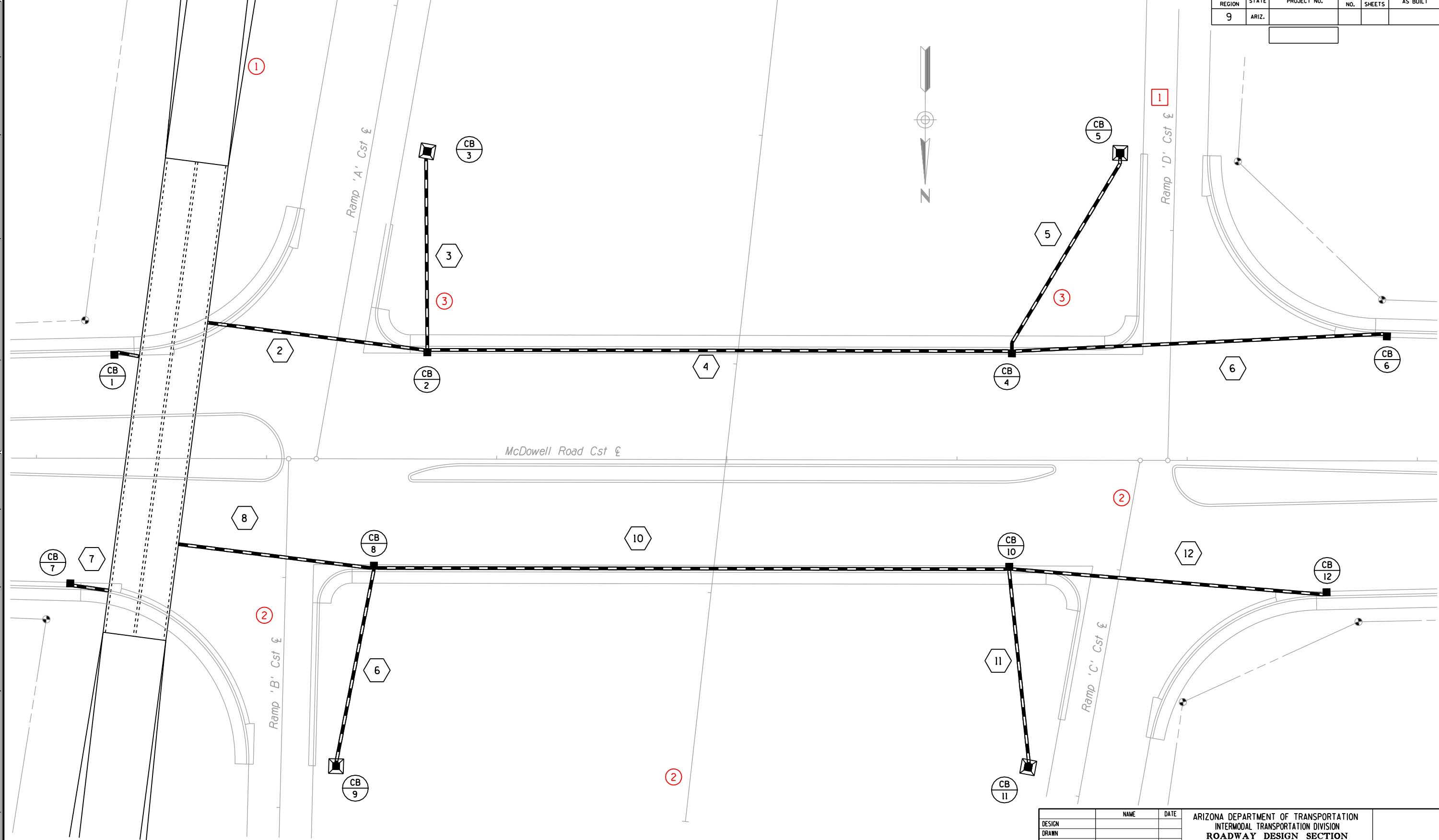
TRACS NO. H0000 OIC

SHEET 2 OF 2

OF

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION <b>ROADWAY DESIGN SECTION</b>
DRAWN			
CHECKED			
TEAM LEADER			
			<b>STORM DRAIN PLAN SHEET MCDOWELL RD</b>

ROUTE 101L	LOCATION PIMA, CHAPARRAL - MCKELLIPS
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SHEET 2 OF 2

TRACS NO. H0000 01 C

OF

NO.	DESCRIPTION OF REVISION
1	
2	



NO.	DESCRIPTION OF REVISION
1	
2	

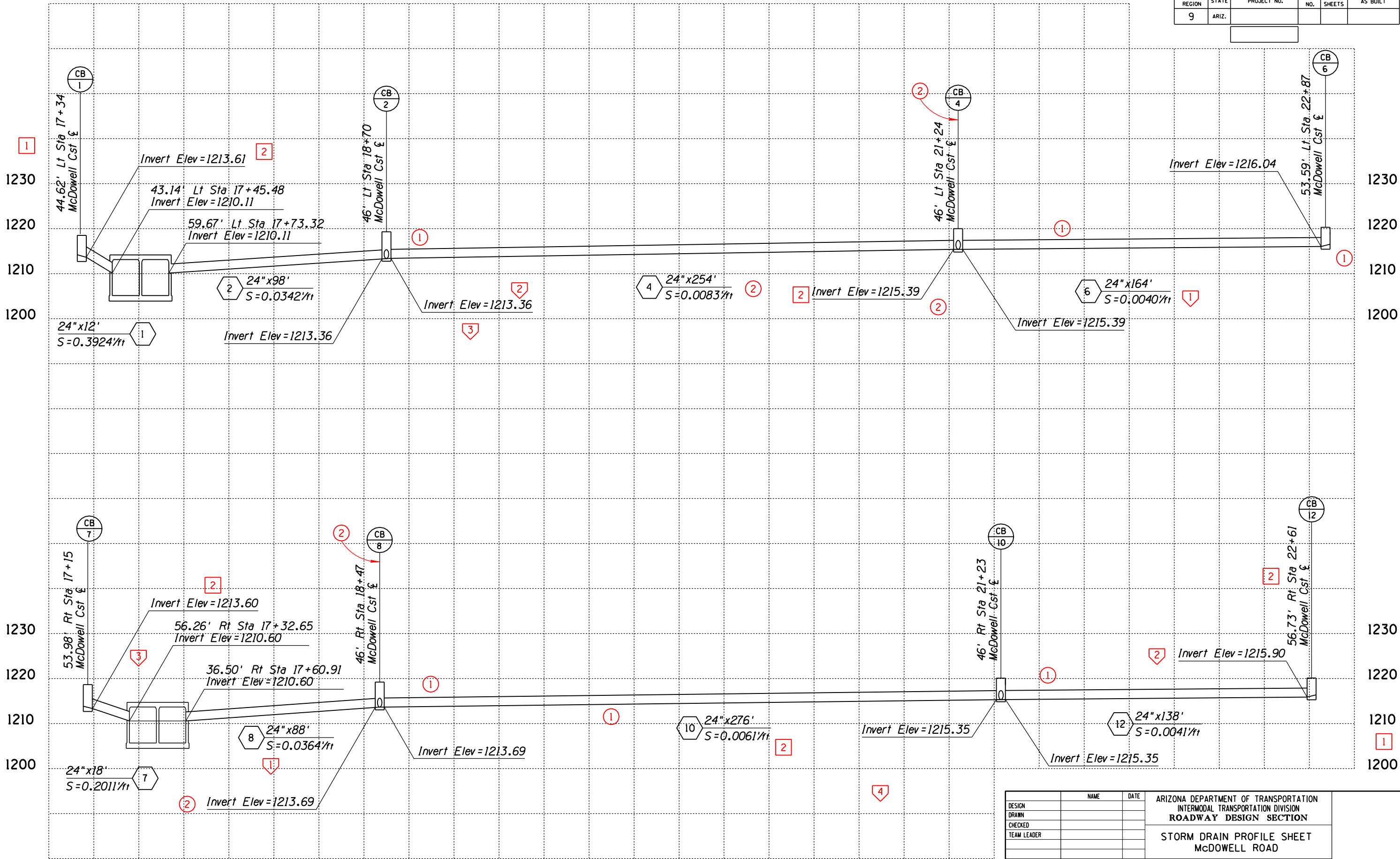


NO.	DESCRIPTION OF REVISION	NO.	DESCRIPTION OF REVISION
1		1	
2		2	
3		3	
4		4	



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				

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



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION
DRAWN			
CHECKED			
TEAM LEADER			

ROUTE	LOCATION
101L	PIMA, CHAPARRAL - MCKELLIPS

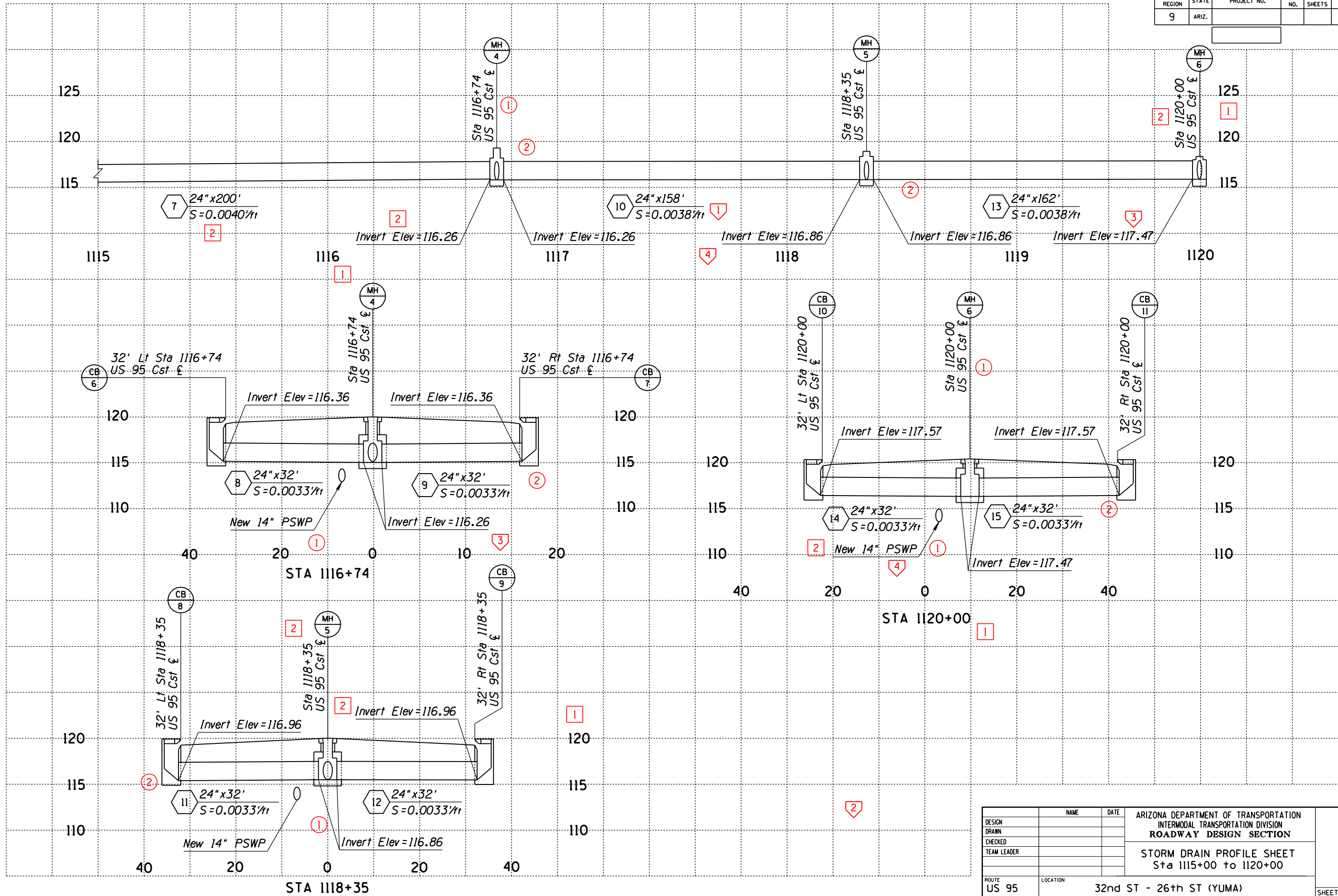
TRACS NO.	

SHEET	2	OF	2

STD P-13.15

NO.	DESCRIPTION OF REVISION
✓	
✓	
2	

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SECTION	
DRAWN				
CHECKED				
TEAM LEADER				
ROUTE US 95			32nd ST - 26th ST (YUMA)	SHEET 2 OF 2
LOCATION				
TRACS NO. H0000 01 C			OF	