

STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
— • —
ROADWAY ENGINEERING



2018
DRAFTING GUIDES

FOR USE IN

OFFICE AND FIELD

General

File Structure

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_modelseed.dgn

Rdwy_modelseed.dgn has 3 Models
Design, Drawing and Sheet

Design is used for 1:1 line graphics
Drawing is used for Annotation
Sheet is used for Printing

Levels

Use the Levels provided
When you need a level:
Use Draft_Plan_Labels for Text and Cells
Use Draft_Sheet for Line work
otherwise use the level designation shown

Cell Libraries

roadway.cel, sheets.cel and summary.cel
We are only creating the cells we need

LineStyles

We are only creating the linestyles we need

Text

There is no weight with True Type Fonts

Below are all 1:1 values
Title Text
ft=Arial, Bold, tx=0.020, Line Spacing 0.50

New Text
ft= Arial, ~~Bold~~, Italic, tx=0.015, Line Spacing 0.50

Existing Text
ft=Arial, tx=0.012, Line Spacing 0.50

Printing

Turn Off Data Fields and Save Settings so they do not print
If the file has color print to Monochrome

Sheets

If the sheet is not applicable - disregard
ex. Survey Control Sheet, but the Project was not Surveyed

Primary Tools

Turn Off Properties and Explorer
unless these tools are necessary for Plans Production
These tools are used with OpenRoads Designer

Quick Access Toolbar

Restore the Ribbon

fs - Face Sheet

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_modelseed.dgn

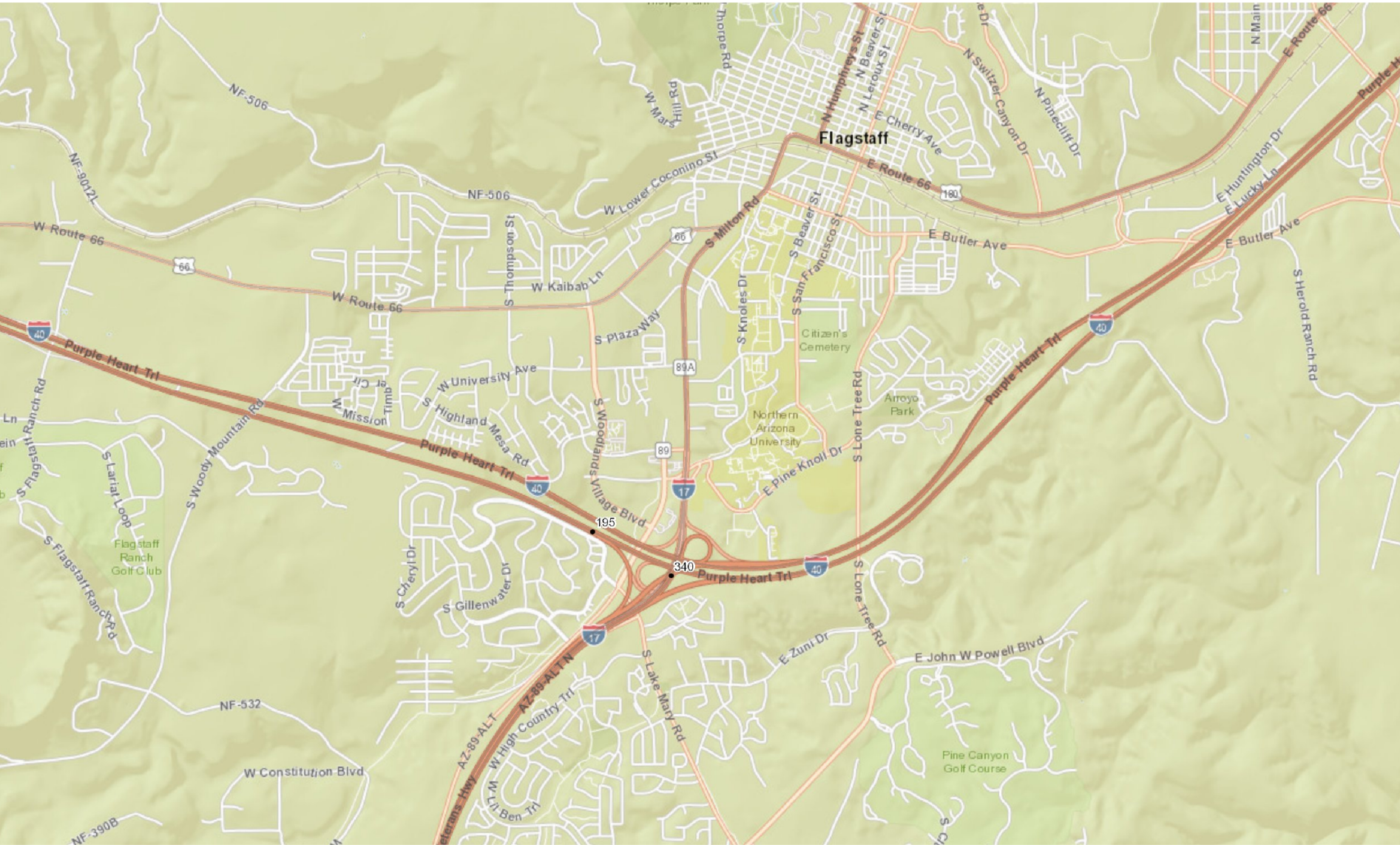
Set Active>Sheet Model Drawing Scale 1:1

Place Active Cell
Attach File: Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\sheets.cel
Highlight RDWYFS
right-click Place Cell
X Scale: 1.0
Y Scale: 1.0
place at coordinate 0,0

Drop Element>Complex
We must more the star

Fill in single Data Field
Fill out Project Information
include township and range on the north arrow
Fill in County data at the bottom of the north arrow
move the star to State Map Project Location

see Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\Plan Sheet Documentation\ProjectCoversheetBuilder.docx
Import Raster Image
Interactive>Yes
Level: Draft_Plan_Labels



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ARIZONA

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MEXICO

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COCCHINO COUNTY

STATE OF ARIZONA

DEPARTMENT OF TRANSPORTATION

INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

STATE HIGHWAY

HIGHWAY NAME

ROUTE LABEL

ADOT

Constructed by:

Construction Company:

Completion Date:

Red-Lines by:

Construction Administrator Name & Company:

Completion Date:

Record Drawings by:

Record Drawing Designer Name & Company:

Completion Date:

Project Information

LOCATION

PROJECT NO. ROUTE COUNTY MILEPOST TRACS

FEDERAL AID NO. FA XXX-X(XXX)X

ARIZONA DEPARTMENT OF TRANSPORTATION

INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

DALLAS HAMMIT, P.E., STATE ENGINEER

REC-DRAW

DATA

OF

UTAH

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ARIZONA

NEW MEXICO

CALIFORNIA

MEXICO

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COCCHINO COUNTY

STATE OF ARIZONA

DEPARTMENT OF TRANSPORTATION

INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

PROJECT PLANS

STATE HIGHWAY

ASH FORK - FLAGSTAFF HWY

INTERSTATE 40

ADOT

Constructed by:

Construction Company:

Completion Date:

Red-Lines by:

Construction Administrator Name & Company:

Completion Date:

Record Drawings by:

Record Drawing Designer Name & Company:

Completion Date:

Project Information

LOCATION

PROJECT NO. 040 CN 190 F0107 01 C

FEDERAL AID NO. 040-C(224)T

ARIZONA DEPARTMENT OF TRANSPORTATION

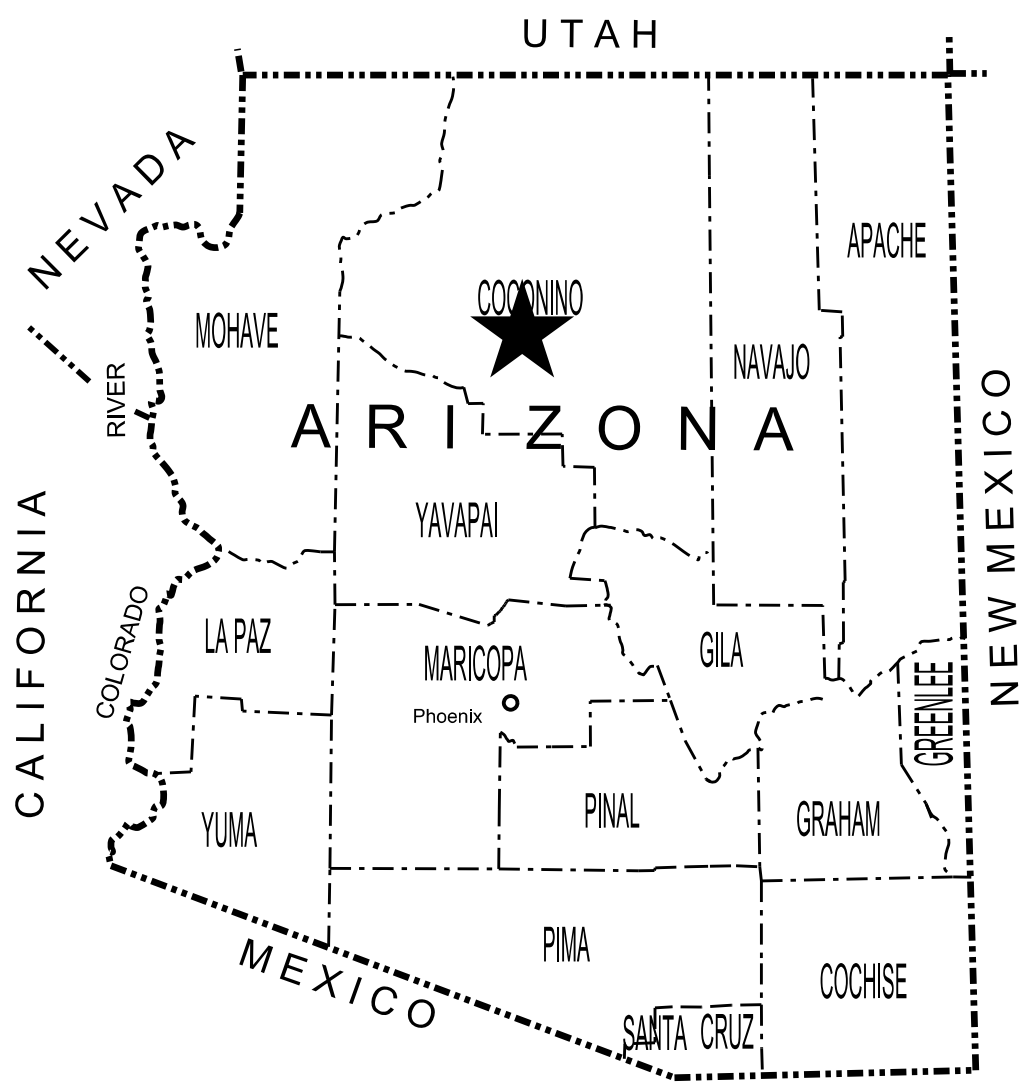
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

DALLAS HAMMIT, P.E., STATE ENGINEER

REC-DRAW

DATA

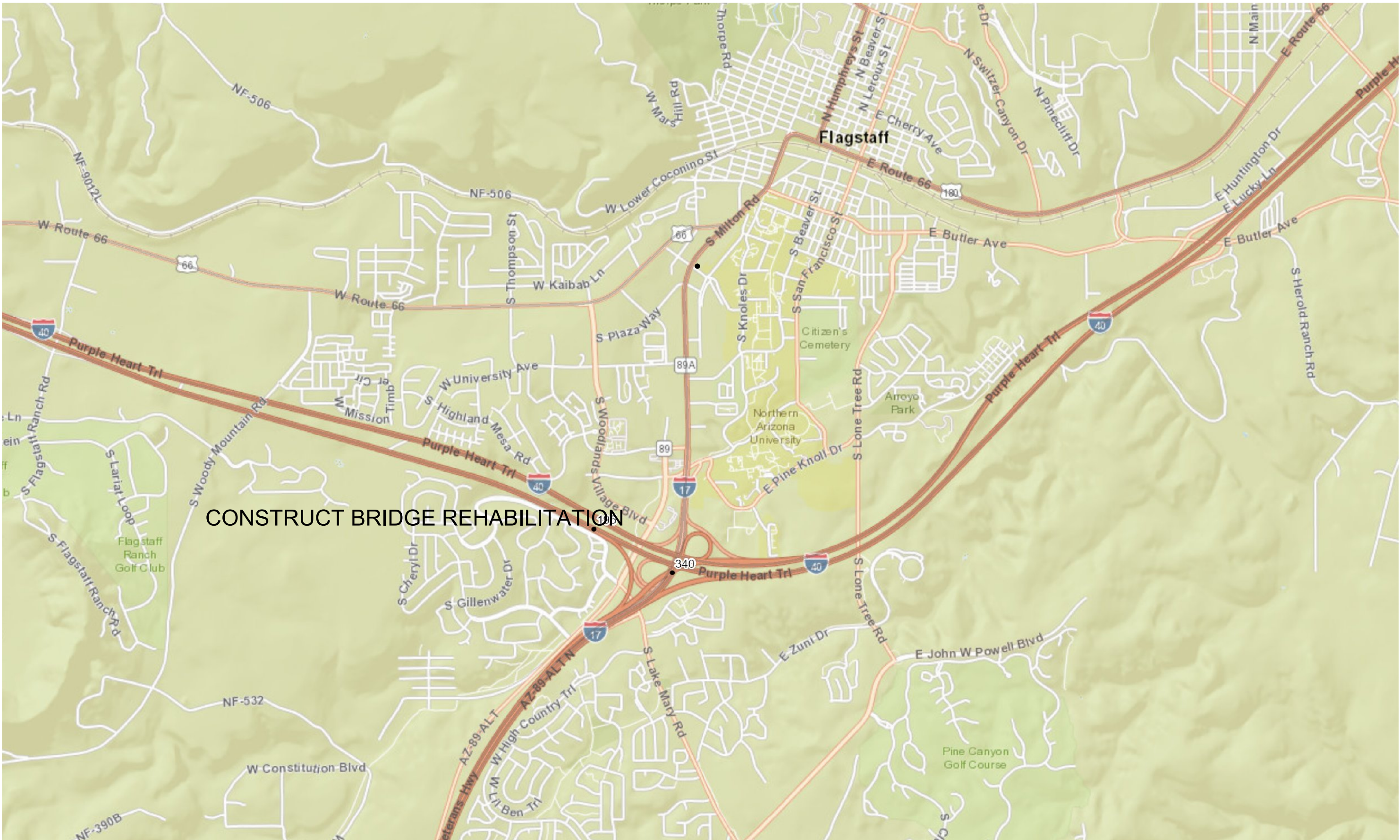
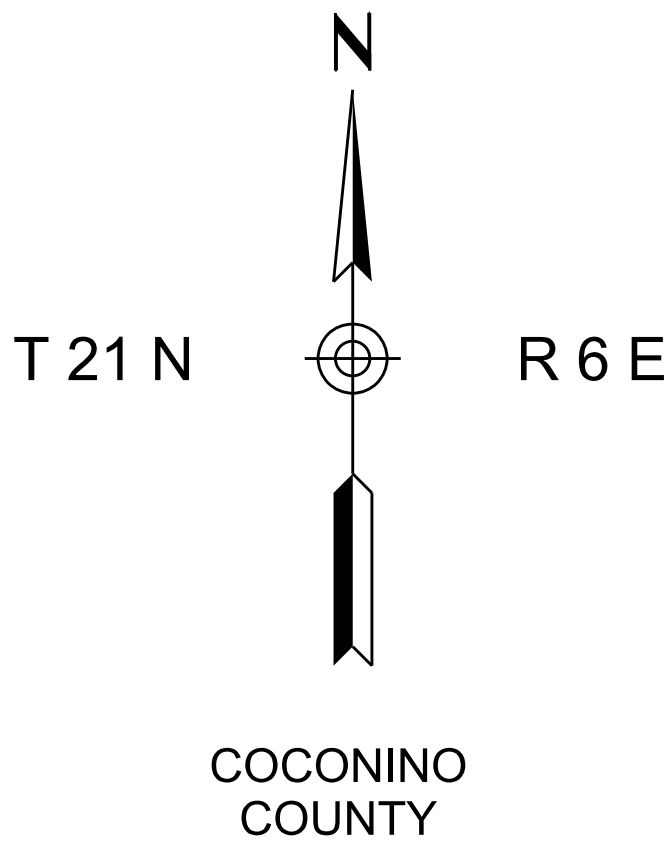
OF



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



STATE HIGHWAY
ASH FORK - FLAGSTAFF HWY
INTERSTATE 40



Constructed by:

Construction Company

Completion Date

Red-Lines by:

Construction Administrator Name & Company

Completion Date

Record Drawings by:

Record Drawings Designer Name & Company

Completion Date

A-1 MOUNTAIN TI UP STR. NO. 896
PROJECT NO. 040 CN 190 F0107 01 C
FEDERAL AID NO. 040-C(224)T

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

REC. DWGS. DATA	REC. DWG. DATE	OF
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1A - Construction Standards Index Sheet

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_modelseed.dgn

Set Active>Sheet Model Drawing Scale 1:1

Place Active Cell

Attach File: Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\sheets.cel

Highlight 1A

right-click Place Cell

X Scale: 1.0

Y Scale: 1.0

place at coordinate 0,0

ADOT STANDARD DRAWINGS					
CONSTRUCTION STANDARDS					
EFFECTIVE DECEMBER 2017					
DATE	STANDARD	SUBJECT TITLE	DATE	STANDARD	SUBJECT TITLE
5/12	C-01.10 SH 1	SYMBOL LEGEND	12/17	C-10.54 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE
5/12	C-01.10 SH 2	SYMBOL LEGEND	12/17	C-10.54 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, PRECAST
5/12	C-01.10 SH 3	SYMBOL LEGEND	12/17	C-10.54 SH 3	CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT
5/12	C-01.10 SH 4	SYMBOL LEGEND	12/17	C-10.55 SH 1	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, CAST-IN-PLACE
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS	12/17	C-10.55 SH 2	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, PRECAST
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS	12/17	C-10.55 SH 3	CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS	12/17	C-10.70 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS	12/17	C-10.70 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRANGE-URBAN HIGHWAYS	12/17	C-10.70 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS	12/17	C-10.71 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS	12/17	C-10.71 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CURB & GUTTER
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES	12/17	C-10.72 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE	12/17	C-10.72 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS	12/17	C-10.72 SH 3	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH CAISSONS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS	12/17	C-10.73 SH 1	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET	12/17	C-10.73 SH 2	CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 42" TO 32" TYPE 'F' WITH GUTTER
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET	12/17	C-10.74	CONCRETE HALF-BARRIER TRANSITION, 42" TO 32" TYPE 'F'
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET	12/17	C-10.75 SH 1	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 1
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET	12/17	C-10.75 SH 2	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' TANGENT DEPARTURE TYPE 2
12/17	C-04.30	SPILLWAY LENGTH TABLE	12/17	C-10.76	CONCRETE HALF-BARRIER TRANSITION, TYPE 'F' AT RADIUS, 32" TO 10"
12/17	C-04.40	DOWNDRAIN LENGTH TABLE	12/17	C-10.77	CONCRETE BARRIER TRANSITION TO GUARDRAIL END TERMINAL LAYOUT WITH CURB
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR	12/17	C-10.78	CONCRETE HALF-BARRIER TRANSITION, 32" TYPE 'F' LOW SPEED APPROACH
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER	5/12	C-10.79	CONCRETE HALF-BARRIER TRANSITION, 42" TYPE 'F' TANGENT DEPARTURE
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS	5/12	C-11.10 SH 1	ROADWAY CATTLE GUARD
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS	5/12	C-11.10 SH 2	ROADWAY CATTLE GUARD
5/12	C-05.12 SH 3	CURB & GUTTER TRANSITIONS	5/12	C-11.10 SH 3	ROADWAY CATTLE GUARD
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS	5/12	C-11.10 SH 4	ROADWAY CATTLE GUARD
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS	5/12	C-11.20	CATTLE GUARD, DRAINAGE
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A	5/12	C-12.10 SH 1	FENCE, WOVEN WIRE
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B	5/12	C-12.10 SH 2	FENCE, BARBED WIRE
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C	5/12	C-12.10 SH 3	FENCE, TYPE 1 AND 2 GATES, FLOOD GATE
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D	5/12	C-12.10 SH 4	FENCE, FLOOD GATE INSTALLATION
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E	5/12	C-12.10 SH 5	FENCE, MISCELLANEOUS DETAILS
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F	5/12	C-12.20 SH 1	FENCE, CHAIN LINK, TYPE 1
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP	5/12	C-12.20 SH 2	FENCE, CHAIN LINK, TYPE 2
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER	5/12	C-12.20 SH 3	FENCE, CHAIN LINK, GATES
5/12	C-05.50	CONCRETE BUS BAY	5/12	C-12.30 SH 1	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS	5/12	C-12.30 SH 2	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS	5/12	C-12.30 SH 3	FENCE, CHAIN LINK CABLE BARRIER
5/12	C-07.01 SH 1	PCCP JOINTS	5/12	C-13.10 SH 1	PIPE CULVERT INSTALLATION
5/12	C-07.01 SH 2	PCCP JOINTS	5/12	C-13.10 SH 2	PIPE CULVERT INSTALLATION
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY	5/12	C-13.15	TYPICAL PIPE INSTALLATION
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS	5/12	C-13.20	PIPE, REINFORCED CONCRETE END SECTION
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS	5/12	C-13.25	PIPE, CORRUGATED METAL END SECTION
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS	5/12	C-13.30	PIPE AND PIPE ARCH, CORRUGATED METAL, CONCRETE INVERT PAVING
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS	5/12	C-13.35	PIPE, CATTLE-VEHICLE PASS, MITERED END TREATMENT
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS	5/12	C-13.60	SLOTTED DRAIN DETAILS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS	5/12	C-13.65	SLOTTED DRAIN INSTALLATION DETAILS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS	5/12	C-13.70	STORM DRAIN CONNECTION DETAILS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS	5/12	C-13.75	STORM DRAIN OUTLET BARRIER GATE
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE	5/12	C-13.76	STORM DRAIN OUTLET AND STORM DRAIN PLUG
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE	5/12	C-13.80	PIPE COLLAR DETAILS
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP	5/12	C-15.10	CATCH BASIN, TYPE 1
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP	5/12	C-15.20 SH 1	CATCH BASIN, TYPE 2
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI	5/12	C-15.20 SH 2	CATCH BASIN, TYPE 3
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT	5/12	C-15.20 SH 3	CATCH BASIN, ACCESS FRAME AND COVER DETAILS
5/12	C-08.20	PAVED GORE AREA	5/12	C-15.30	CATCH BASIN, TYPE 4
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS	5/12	C-15.40 SH 1	CATCH BASIN, TYPE 5
12/17	C-10.01	GUARDRAIL INSTALLATION	5/12	C-15.40 SH 2	CATCH BASIN, TYPE 6
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST	5/12	C-15.50	CATCH BASIN, FRAME AND GRATE
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL, (MODIFIED) WITH FREEWAY CURB AND GUTTER	5/12	C-15.70 SH 1	CATCH BASIN, MISCELLANEOUS DETAILS
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL, (MODIFIED) WITH FREEWAY CURB AND GUTTER	5/12	C-15.70 SH 2	CATCH BASIN, MISCELLANEOUS DETAILS
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN	5/12	C-15.75	CATCH BASIN, DROP INLET
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST	5/12	C-15.80	CATCH BASIN, FLUSH
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST	5/12	C-15.81	CATCH BASIN, SIDE SLOPE
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR	5/12	C-15.90	CATCH BASIN, MEDIAN DIKE, PRECAST
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR	5/12	C-15.91 SH 1	FREEWAY CATCH BASIN DETAILS
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION	5/12	C-15.91 SH 2	FREEWAY CATCH BASIN DETAILS
12/17	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP	5/12	C-15.92 SH 1	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
12/17	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP	5/12	C-15.92 SH 2	CATCH BASIN WITH TYPE 'F' CONCRETE HALF BARRIER
12/17	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT	5/12	C-16.40	IRRIGATION SLEEVES
12/17	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT	5/12	C-17.10	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 1, 2 & 3
12/17	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION	5/12	C-17.15	RAIL BANK PROTECTION AT ABUTMENTS, TYPES 4, 5 & 6
2/18	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION	5/12	C-17.20	RAIL BANK PROTECTION FOR DRAINAGEWAYS, TYPES 7, 8 & 9
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST	5/12	C-18.10 SH 1	MANHOLE, RISER DETAILS
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST	5/12	C-18.10 SH 2	MANHOLE, BASE DETAILS, NORMAL INSTALLATION
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST	5/12	C-18.10 SH 3	MANHOLE, FRAME AND COVER DETAILS
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST	5/12	C-19.10 SH 1	FORD, CONCRETE WALLS
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST	5/12	C-19.10 SH 2	FORD, TYPES 1 AND 2
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL	5/12	C-21.10	SURVEY MONUMENT FRAME AND COVER
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE	5/12	C-21.20	SURVEY MARKER
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE			
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=0"TO 26"			
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=0"TO 26"			
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=26"TO 60"			
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F' WITH VARIABLE HEIGHT SIDES, H=26"TO 60"			
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE			
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST			
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK			
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER			
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER			

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
CONSTRUCTION STANDARDS	NAME	DATE	
PROJECT NO.	JOHN DOE	05/18	
040 CN 190 F0107 01C		1A	OF
RECORD DRAWING DATA	FEDERAL ID NO. 040-C(224)T	REC. DWG. DATE	OF

ADOT STANDARD DRAWINGS

CONSTRUCTION STANDARDS
EFFECTIVE DECEMBER 2017

DATE	STANDARD	SUBJECT TITLE
5/12	C-01.10 SH 1	SYMBOL LEGEND
5/12	C-01.10 SH 2	SYMBOL LEGEND
5/12	C-01.10 SH 3	SYMBOL LEGEND
5/12	C-01.10 SH 4	SYMBOL LEGEND
12/17	C-01.30 SH 1	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 2	GENERAL ABBREVIATIONS
5/12	C-01.30 SH 3	GENERAL ABBREVIATIONS
5/12	C-02.10	SLOPES, RURAL DIVIDED HIGHWAYS
5/12	C-02.20	SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS
5/12	C-02.30	SLOPES, MISCELLANEOUS ROADWAYS
5/12	C-03.10 SH 1	DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS
5/12	C-03.10 SH 2	DITCHES, CHANNELS, DIKES AND BERMS, DIKES
5/12	C-03.10 SH 3	DITCHES, CHANNELS, DIKES AND BERMS, DITCH DIKE
5/12	C-03.10 SH 4	DITCHES, CHANNELS, DIKES AND BERMS, PIPE BERMS
5/12	C-03.10 SH 5	DITCHES, CHANNELS, DIKES AND BERMS, HEADWALL BERMS
12/17	C-04.10 SH 1	SPILLWAY, EMBANKMENT SINGLE INLET
12/17	C-04.10 SH 2	SPILLWAY, EMBANKMENT DOUBLE INLET
12/17	C-04.20 SH 1	DOWNDRAIN, EMBANKMENT SINGLE INLET
12/17	C-04.20 SH 2	DOWNDRAIN, EMBANKMENT DOUBLE INLET
12/17	C-04.30	SPILLWAY LENGTH TABLE
12/17	C-04.40	DOWNDRAIN LENGTH TABLE
5/12	C-04.50	DOWNDRAIN ENERGY DISSIPATOR
5/12	C-05.10	CURB & GUTTER, CURB, GUTTER
5/12	C-05.12 SH 1	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 2	CURB & GUTTER TRANSITIONS
5/12	C-05.12 SH 3	CURB AND GUTTER TRANSITIONS
5/12	C-05.20 SH 1	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS
5/12	C-05.20 SH 2	CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS
5/12	C-05.30 SH 1	SIDEWALK RAMP, TYPE A
5/12	C-05.30 SH 2	SIDEWALK RAMP, TYPE B
5/12	C-05.30 SH 3	SIDEWALK RAMP, TYPE C
5/12	C-05.30 SH 4	SIDEWALK RAMP, TYPE D
5/12	C-05.30 SH 5	SIDEWALK RAMP, TYPE E
5/12	C-05.30 SH 6	SIDEWALK RAMP, TYPE F
5/12	C-05.30 SH 7	SIDEWALK RAMP, DETECTABLE WARNING STRIP
5/12	C-05.40	MEDIAN PAVING AND NOSE TAPER
5/12	C-05.50	CONCRETE BUS BAY
5/12	C-06.10 SH 1	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-06.10 SH 2	DRIVEWAY & TURNOUT LAYOUTS
5/12	C-07.01 SH 1	PCCP JOINTS
5/12	C-07.01 SH 2	PCCP JOINTS
5/12	C-07.02	LOAD TRANSFER DOWEL ASSEMBLY
5/12	C-07.03 SH 1	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 2	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 3	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 4	PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS
5/12	C-07.03 SH 5	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 6	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 7	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.03 SH 8	PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS
5/12	C-07.04 SH 1	PCCP JOINT LOCATIONS, PARALLEL-TYPE ENTRANCE RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 2	PCCP JOINT LOCATIONS, PARALLEL-TYPE EXIT RAMP WITH AUXILIARY LANE
5/12	C-07.04 SH 3	PCCP JOINT LOCATIONS, TAPER-TYPE ENTRANCE RAMP
5/12	C-07.04 SH 4	PCCP JOINT LOCATIONS, TAPER-TYPE EXIT RAMP
5/12	C-07.04 SH 5	PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI
5/12	C-07.06	TRENCH BACKFILL AND PAVEMENT REPLACEMENT
5/12	C-08.20	PAVED GORE AREA
12/17	C-10.00	GUARDRAIL MEASUREMENT LIMITS
12/17	C-10.01	GUARDRAIL INSTALLATION
12/17	C-10.03	W-BEAM GUARDRAIL, MGS BLOCKED-OUT TIMBER POST
12/17	C-10.04	W-BEAM GUARDRAIL, MGS BLOCKED-OUT STEEL POST
12/17	C-10.05 SH 1	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.05 SH 2	W-BEAM GUARDRAIL (MODIFIED) WITH FREEWAY CURB AND GUTTER
12/17	C-10.06	W-BEAM GUARDRAIL LONG-SPAN
12/17	C-10.07 SH 1	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.07 SH 2	W-BEAM GUARDRAIL, BOX CULVERT GUARDRAIL POST
12/17	C-10.08 SH 1	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.08 SH 2	W-BEAM GUARDRAIL, END ANCHOR
12/17	C-10.09	GUARDRAIL POST ROCK INSTALLATION
12/17	C-10.20 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
12/17	C-10.20 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR SOFTSTOP
12/17	C-10.21 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
12/17	C-10.21 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MSKT
2/18	C-10.22 SH 1	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
2/18	C-10.22 SH 2	GUARDRAIL END TERMINAL PAD LAYOUT FOR MAX-TENSION
12/17	C-10.30 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.30 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, TIMBER POST
12/17	C-10.31 SH 1	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.31 SH 2	GUARDRAIL TRANSITION TO CONCRETE BARRIER, STEEL POST
12/17	C-10.38 SH 1	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH STAGGERED POST
12/17	C-10.38 SH 2	GUARDRAIL TAPER G4 TO MGS W-BEAM WITH OFFSET RAIL
12/17	C-10.40	CONCRETE MEDIAN BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.41	CONCRETE MEDIAN BARRIER, 42" TYPE 'F', CAST-IN-PLACE
12/17	C-10.44 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.44 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=0"TO 26"
12/17	C-10.45 SH 1	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.45 SH 2	CONCRETE MEDIAN BARRIER, 42" TYPE 'F'WITH VARIABLE HEIGHT SIDES, H=26"TO 60"
12/17	C-10.50 SH 1	CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE
12/17	C-10.50 SH 2	CONCRETE HALF BARRIER, 32" TYPE 'F', PRECAST
12/17	C-10.51	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK
12/17	C-10.52	CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER
12/17	C-10.53	CONCRETE HALF BARRIER, 42" TYPE 'F' WITH GUTTER

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

ADOT STANDARD DRAWINGS			
REVISION DATES and STANDARD NO.'s REVIEW			
		NAME	DATE
CONSTRUCTION STANDARDS		JOHN DOE	05/18
PROJECT NO.		1A	OF
040 CN 190 F0107 01C			
RECORD DRAWING DATA	FEDERAL ID NO. 040-C(224)T	REC. DWG. DATE	OF

bdr - Border File

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_modelseed.dgn

Set Active>Sheet Model Drawing Scale 1:1

Place Active Cell

Attach File: Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\sheets.cel

Highlight RDWYPL

right-click Place Cell

X Scale: 1.0

Y Scale: 1.0

place at coordinate 0,0

Fill in single Data Field

Fill out Project Information

				ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION		F.H.W.A. Arizona Division		STATE ARIZ.	PROJECT NO. 040 CN 190	FEDERAL ID NO. 040-C(224)T	SHEET NO. 	TOTAL SHEETS 	RECORD DRAWING
						SCALE 1"=40'		LOCATION A-1 MOUNTAIN TI UP STR. NO. 896					
SHEET OF						TRACS NO. F0107 01C		ADOT Infrastructure Delivery and Operations		OF			

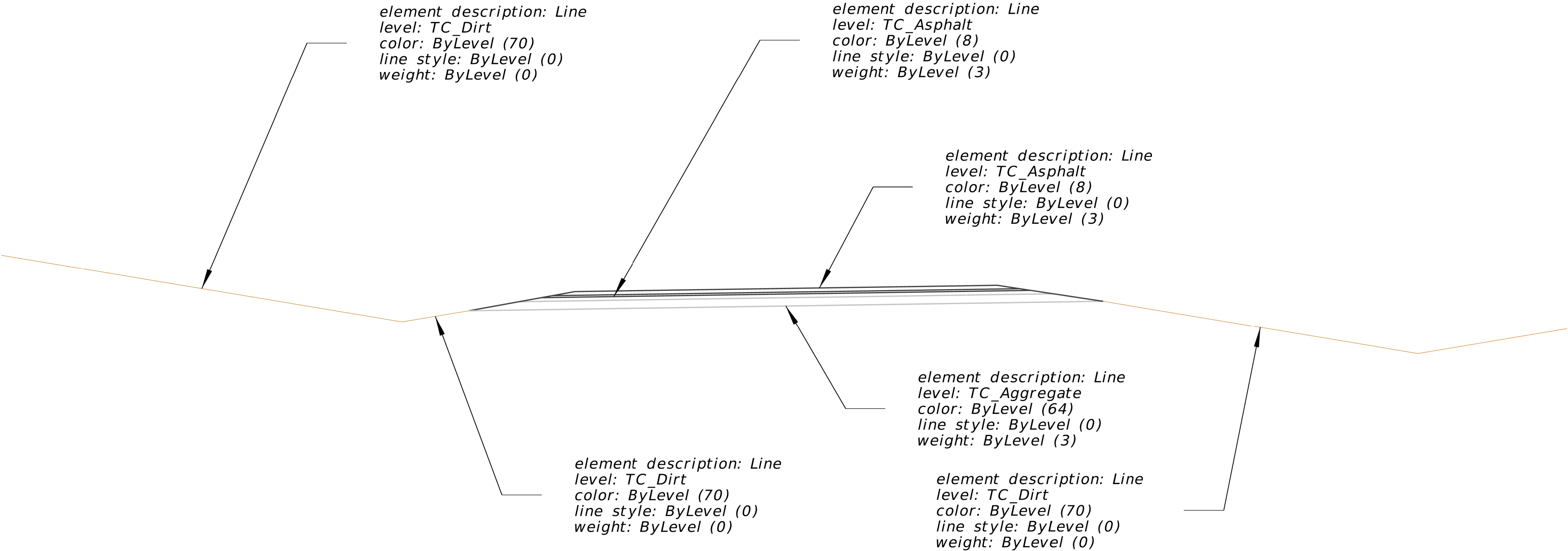
												NAME		DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION		F.H.W.A. Arizona Division		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING		
																			ARIZ.	040 CN 190	040-C(224)T					
																		ROUTE I-40	A-1 MOUNTAIN TI UP STR. NO. 896							
																		TRACS NO. F0107 01C					____ OF ____			
SHEET OF																										

ds1 - Design Sheet #1

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_model\seed.dgn

Drawing Model Drawing Scale 1":10'
Sheet Model Drawing Scale 1":10'

Draw the Typical Section in the Design Model 1:1
View>Create Saved View>Name: 1 Description: TYP>Select the View



Attach Reference file: Border (Sheet) into the Sheet Model 1":10">Drawing Boundary - none
Attach Reference file: f0107ds1.dgn Design Model by Saved View (TYP) for the Typical Section LineWork>Drawing Boundary - none
Dimension Style and Text Style for Typical Section Annotation
see Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\Text\DimensionStyles.docx

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New Text	Font: Arial Italic	tx=0.015	Line Spacing=0.50
Existing Text	Font: Arial	tx=0.012	Line Spacing=0.50

Seperate Dimension Text first by a value of 6 (from the element) and every 4 after

Place Cells from Attach File: Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\roadway.cel

Earthwork Table Formatting, see P-STD 08>scale 100.00

REFERENCES

I 40-3(22)
I 40-3(29)

MIDPOINT OF PROJECT

Central Zone
State Plane Coordinates
X=752,400
Y=1,527,900

DESIGN DATA

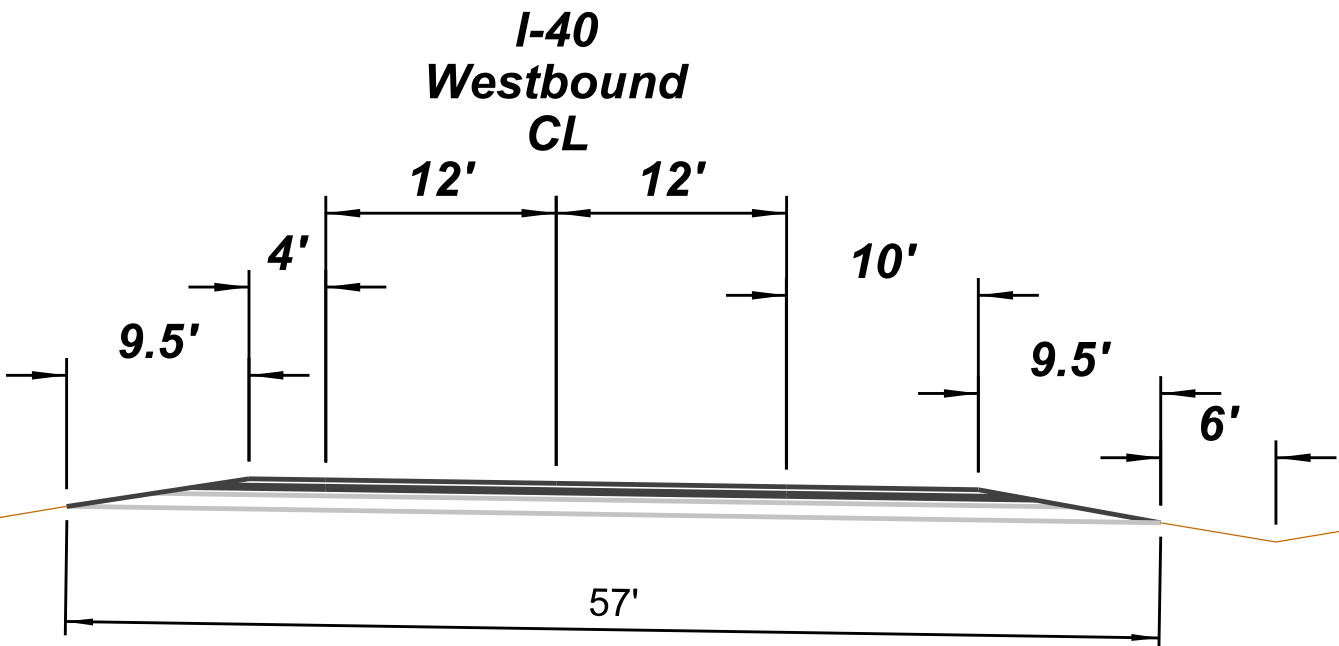
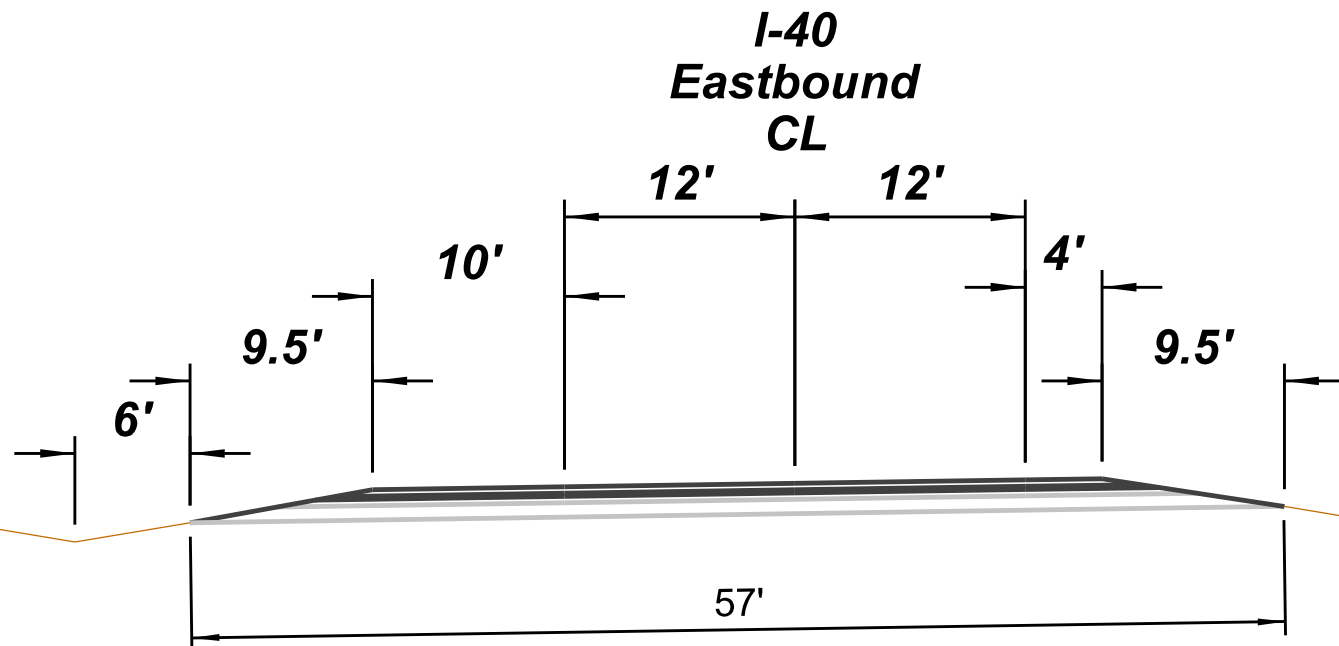
20 AADT = 23,105
20 AADT = 25,609
Design Speed = 40 MPH

LENGTH OF PROJECT

Sta 6+59.00 to 9+88.00 = 329.00'
Gross and Net Length = 329.00' - 0.1 Miles

INDEX OF SHEETS

Sheet No.	Sheet Type
1	Face Sheet
1A-1D	ADOT Standard Drawings
2	Design Sheet
3	Summary Sheet
4	Detail Sheet
5	Survey Control Sheet
6	Geometric Sheet
7	Plan Sheet
8-13	Plan and Profile 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.
R/W markers will be furnished and placed by ADOT R/W Plans Section forces.

EARTHWORK CALCULATION				
FINAL CALCULATIONS				
	Exc(+)		Emb(-)	
Roadway Excavation (thru 10% Shmk)	590	CY		
Shrink			59	CY
Roadway Excavation (thru 25% Swell)	2473			
Swell	302	CY		
* Railbank Excavation	152	CY		
Shrink			15	CY
* Gabion Basket Excavation	602	CY		
Shrink			60	CY
* Spillway	10	CY		
Shrink			1	CY
Structure Excavation	190	CY		CY
Shrink			19	CY
* Railbank Backfill			364	CY
* Gabion Basket Backfill			371	CY
Structure Backfill			0	CY
Embankment (Inc GC)			2062	CY
Waste			1368	CY
	4319	CY	4319	CY

NAME	DATE
DESIGN	
DRAWN	
CHECKED	
TEAM LEADER	

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

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.	ARIZ.	040 CN 190	040-C(224)T			
ROUTE I-40	LOCATION A-1 MOUNTAIN TI UP STR. NO. 896					
TRACS NO. F0107 01C	Infrastructure Delivery and Operations					OF

place at coordinate 0,0

7. Move as necessary

EB 1630+05 RT EB 1632+77 RT	1	X	X			187.5				112.5					Begin End	1	1			X				1	
EB 1651+05 RT EB 1654+27 RT	2	X	X			187.5				112.5					Begin End	1	1			X				1	
EB 1684+00 LT EB 1688+00 LT	3	X	X			300.0				400.0					Begin End		1	1		X			1	1	
EB 1685+00 RT EB 1703+25 RT	4	X	X			775.0				987.5					Begin End		1	1		X			1	1	
WB 1697+05 RT WB 1700+36 RT	5	X	X			262.5				462.5					Begin End		1	1		X	1				
EB 1714+00 LT EB 1718+45 LT	6	X	X		9	375.0				487.5					Begin End		1	1		X			1	1	
EB 1719+10 RT EB 1719+26 LT	7	X	X		9	262.5				362.5					Begin End		1	1		X			1	1	
WB 1718+20 LT WB 1720+26 LT	8	X	X			337.5				387.5					Begin End			1		X					
WB 1717+31 RT WB 1721+12 LT	9	X	X		9	312.5				262.5					Begin End		1	1		X	1				
EB 1744+06 RT EB 1746+78 RT	10	X	X			187.5				112.5					Begin End	1	1			X				1	
EB 1798+00 LT EB 1801+75 LT	11	X	X			525.0				300.0					Begin End		1	1		X		1			7 BOLTED POSTS TO HEADWALL DO NOT APPLY 2" OFFSET
EB 1799+25 RT EB 1802+75 RT	12	X	X			300.0				275.0					Begin End		1	1		X		1			7 BOLTED POSTS TO HEADWALL DO NOT APPLY 2" OFFSET
						3862.5	36			4362.5						3	12	9			3	6		9	

Print Monochrome

[illegible]

REV. DATE: 03/06/2018

ONE-WAY ROADWAY

Begin Station

End Station

Direction of Stationing

Begin Station

End Station

TWO-WAY ROADWAY WITH STRUCTURE

Begin Station

End Station

Begin Station

End Station

Direction of Stationing

Begin Station

End Station

DIVIDED ROADWAY WITH HIGH TENSION MEDIAN CABLE BARRIER

Begin Sta = LON Point

End Sta = LON Point

Direction of Stationing

Begin Sta = LON Point

End Sta = LON Point

LOCATION	Plan Reference Number	BARRIER														TRANSITION		END TREATMENT										
		NEW GUARDRAIL				EXISTING GUARDRAIL				CONCRETE BARRIER				CABLE		RAIL	CONC BARRIER	NEW					EXISTING					
																		Each		Action		Each				REMARKS		
																		Each				Each						
EB 1630+05 RT	1	X	X			187.5										1												
EB 1632+77 RT																												
EB 1651+55 RT	2	X	X			187.5										1												
EB 1654+27 RT																												
EB 1694+00 LT	3	X	X			350.0										1												
EB 1698+00 LT																												
EB 1695+00 RT	4	X	X			775.0										1												
EB 1703+25 RT																												
WB 1697+05 RT	5	X	X			262.5											1											
WB 1700+36 RT																												
EB 1714+20 LT	6	X	X			375.0	9									1												
EB 1718+45 LT																												
EB 1716+15 RT	7	X	X			262.5	9									1												
EB 1719+28 LT																												
WB 1716+20 LT	8	X	X			337.5	9										1											
WB 1720+26 LT																												
WB 1717+31 RT	9	X	X			312.5	9										1											
WB 1721+12 LT																												
EB 1744+06 RT	10	X	X			187.5										1												
EB 1746+78 RT																												
EB 1798+00 LT	11	X	X			325.0										1												
EB 1801+75 LT																												
EB 1799+25 RT	12	X	X			300.0										1												
EB 1802+75 RT																												
3862.5						36										3		12	9			3	6		9			

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

LENGTH IS FROM LENGTH OF NEED (LON) POINT TO LON POINT. ACTUAL SEGMENT LENGTH VARIES DEPENDING ON TERMINAL TYPE. SEE SPECIAL PROVISIONS.

NOTE: FOR RECORD DRAWING PREPARATION - CIRCLE END TREATMENT INSTALLED.

SEE BRIDGE SHEETS FOR BRIDGE BARRIER DETAILS AND QUANTITIES.

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'.

DESIGN

DRAWN

CHECKED

TEAM LEADER

NAME

DATE

ARIZONA DEPARTMENT OF TRANSPORTATION

INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION

ROADWAY DESIGN SECTION

F.H.W.A. Arizona Division

STATE

ARIZ.

PROJECT NO.

040 CN 190

FEDERAL ID NO.

040-C(224)T

SHEET NO.

TOTAL SHEETS

RECORD DRAWING

ROUTE

I-40

LOCATION

A-1 MOUNTAIN TI UP STR. NO. 896

TRACS NO.

F0107 01C

ADOT

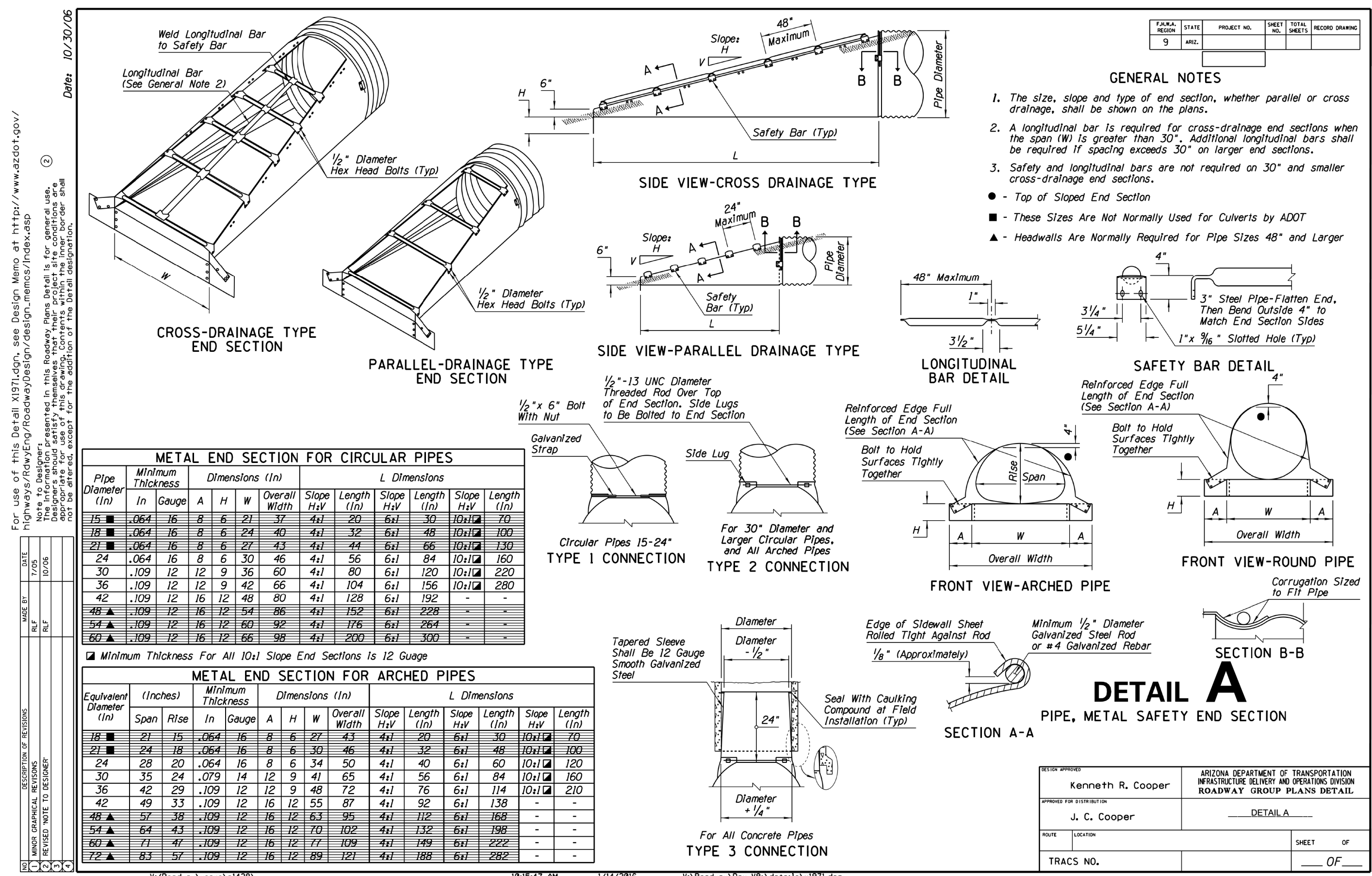
Infrastructure Delivery and Operations

OF

SHEET

OF

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pick the two corners of the Sheet Model*

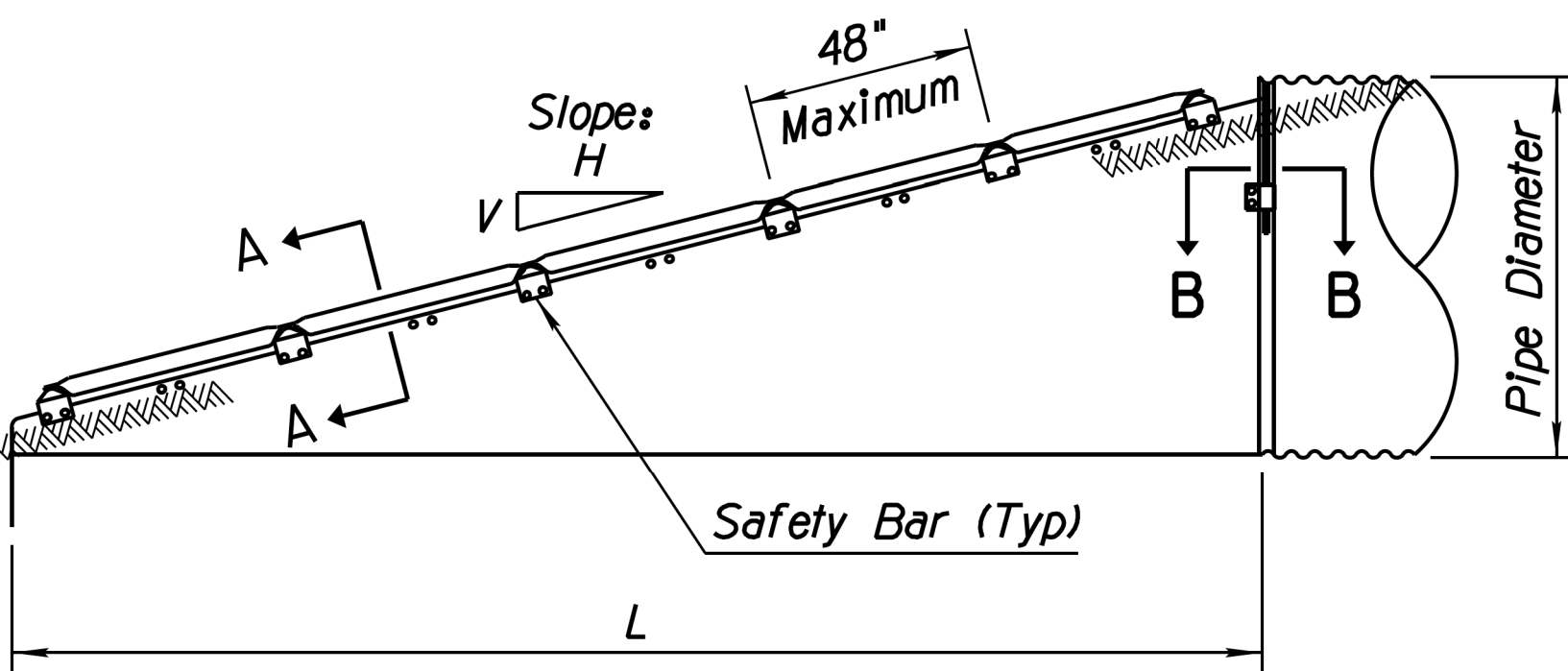
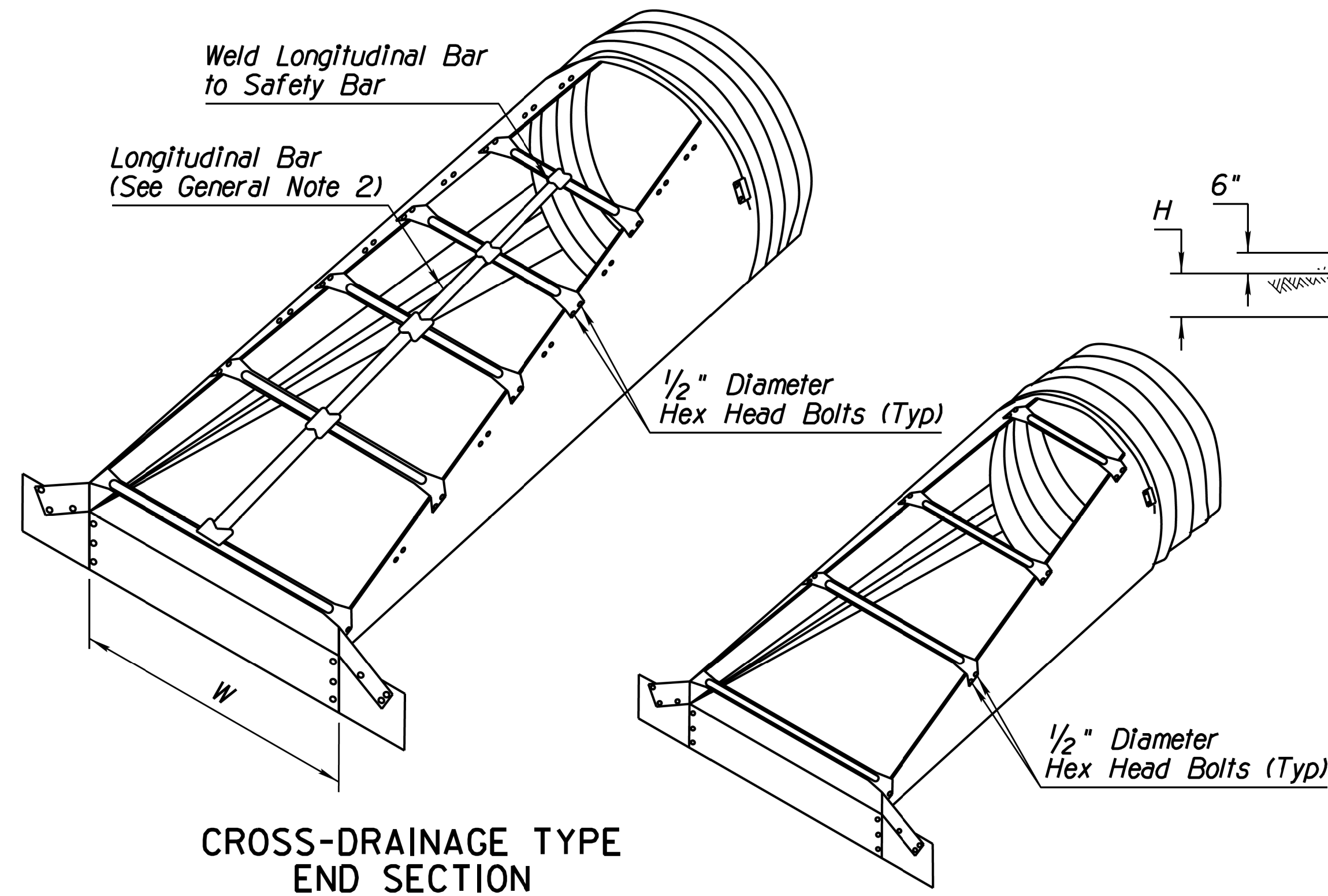


NO.	DESCRIPTION OF REVISIONS	DATE	MADE BY	RLF	DATE	MADE BY	RLF
1	MINOR GRAPHICAL REVISIONS	7/05			10/06		
2	REVISED 'NOTE TO DESIGNER'						
3							
4							

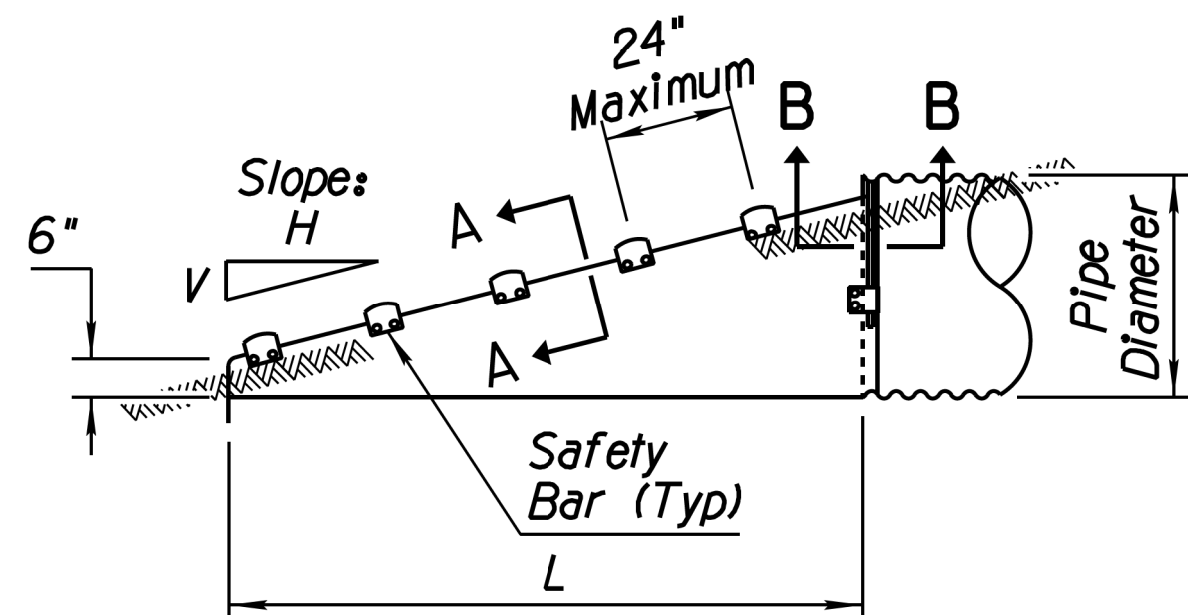
Date: 10/30/06

②

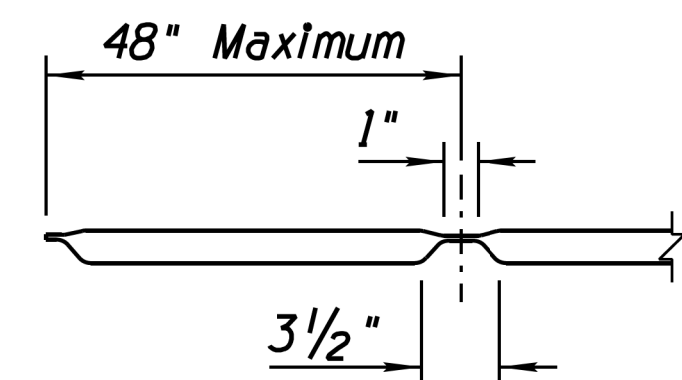
Note to Designer: The information presented in this Roadway Plans Detail is for general use. Designers should satisfy themselves that their project site conditions are appropriate for use of this drawing. Contents within the inner border shall not be altered, except for the addition of the Detail designation.



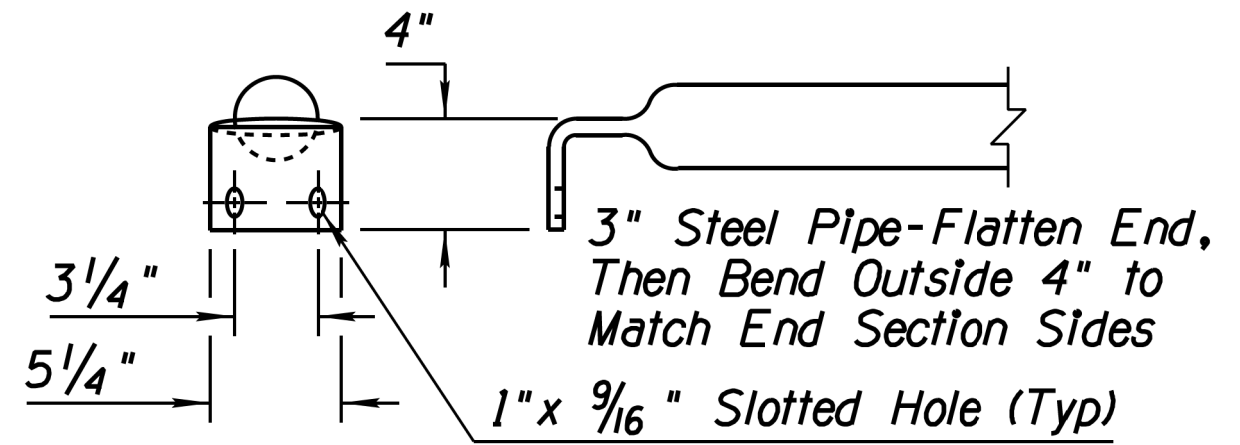
SIDE VIEW-CROSS DRAINAGE TYPE



SIDE VIEW-PARALLEL DRAINAGE TYPE



LONGITUDINAL BAR DETAIL

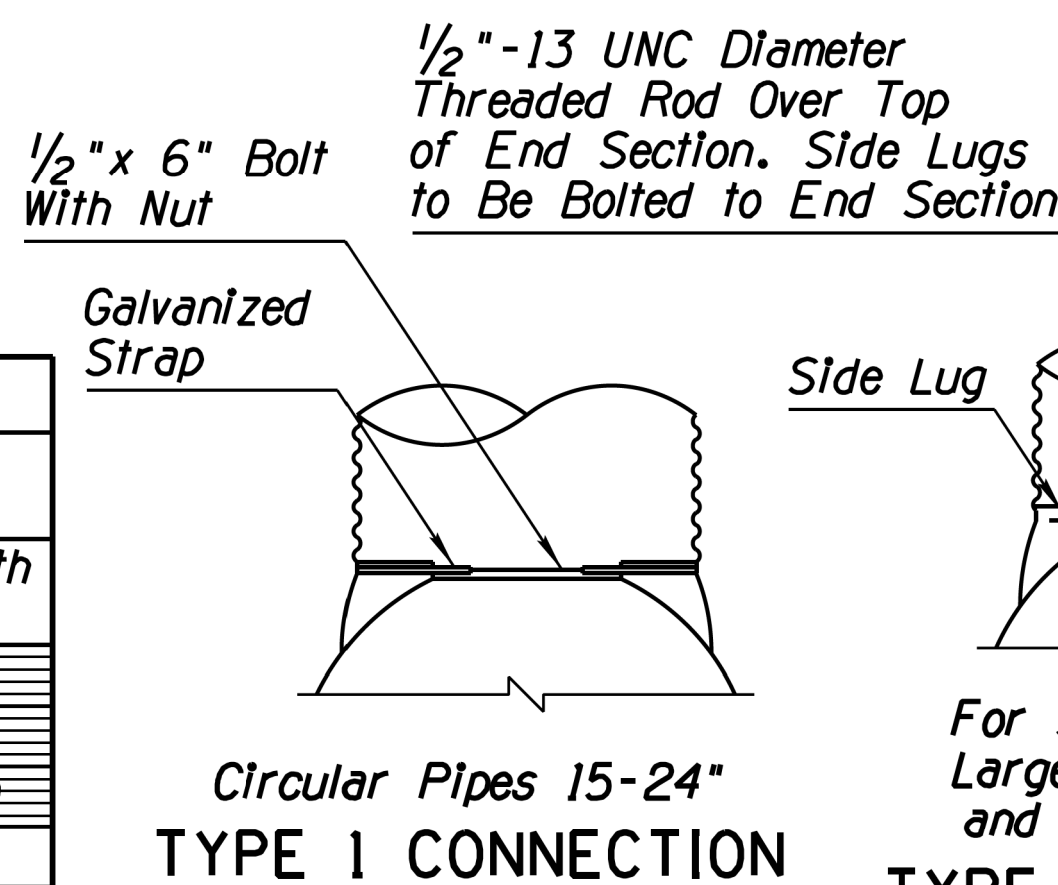


SAFETY BAR DETAIL

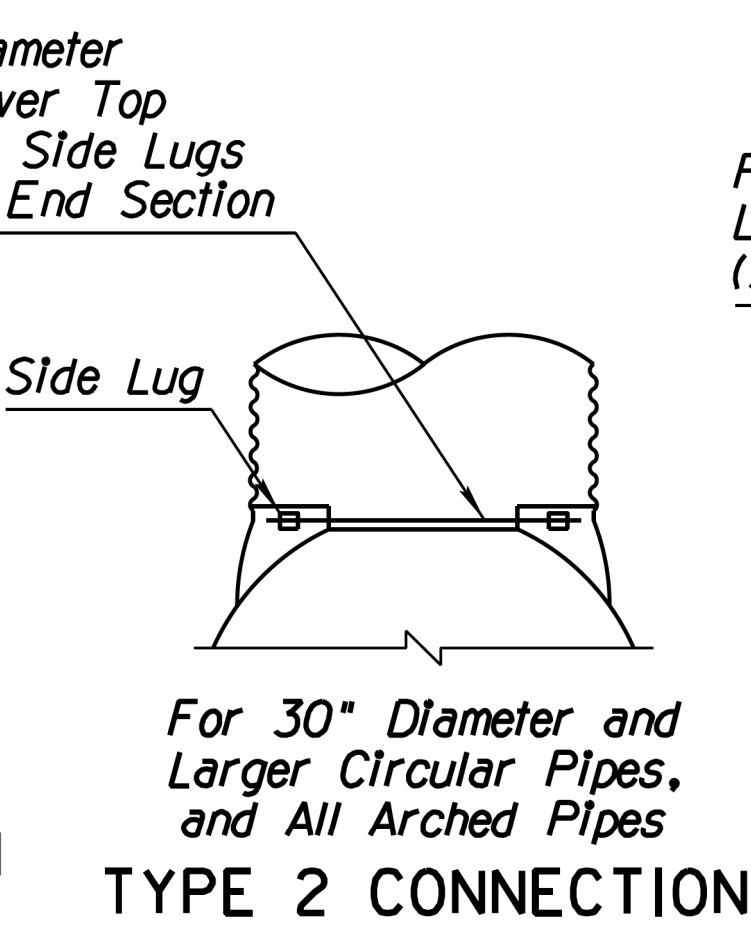
METAL END SECTION FOR CIRCULAR PIPES											
Pipe Diameter (In)	Minimum Thickness		Dimensions (In)				L Dimensions				
	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V
15	.064	16	8	6	21	37	4:1	20	6:1	30	10:1
18	.064	16	8	6	24	40	4:1	32	6:1	48	10:1
21	.064	16	8	6	27	43	4:1	44	6:1	66	10:1
24	.064	16	8	6	30	46	4:1	56	6:1	84	10:1
30	.109	12	12	9	36	60	4:1	80	6:1	120	10:1
36	.109	12	12	9	42	66	4:1	104	6:1	156	10:1
42	.109	12	16	12	48	80	4:1	128	6:1	192	-
48	.109	12	16	12	54	86	4:1	152	6:1	228	-
54	.109	12	16	12	60	92	4:1	176	6:1	264	-
60	.109	12	16	12	66	98	4:1	200	6:1	300	-

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

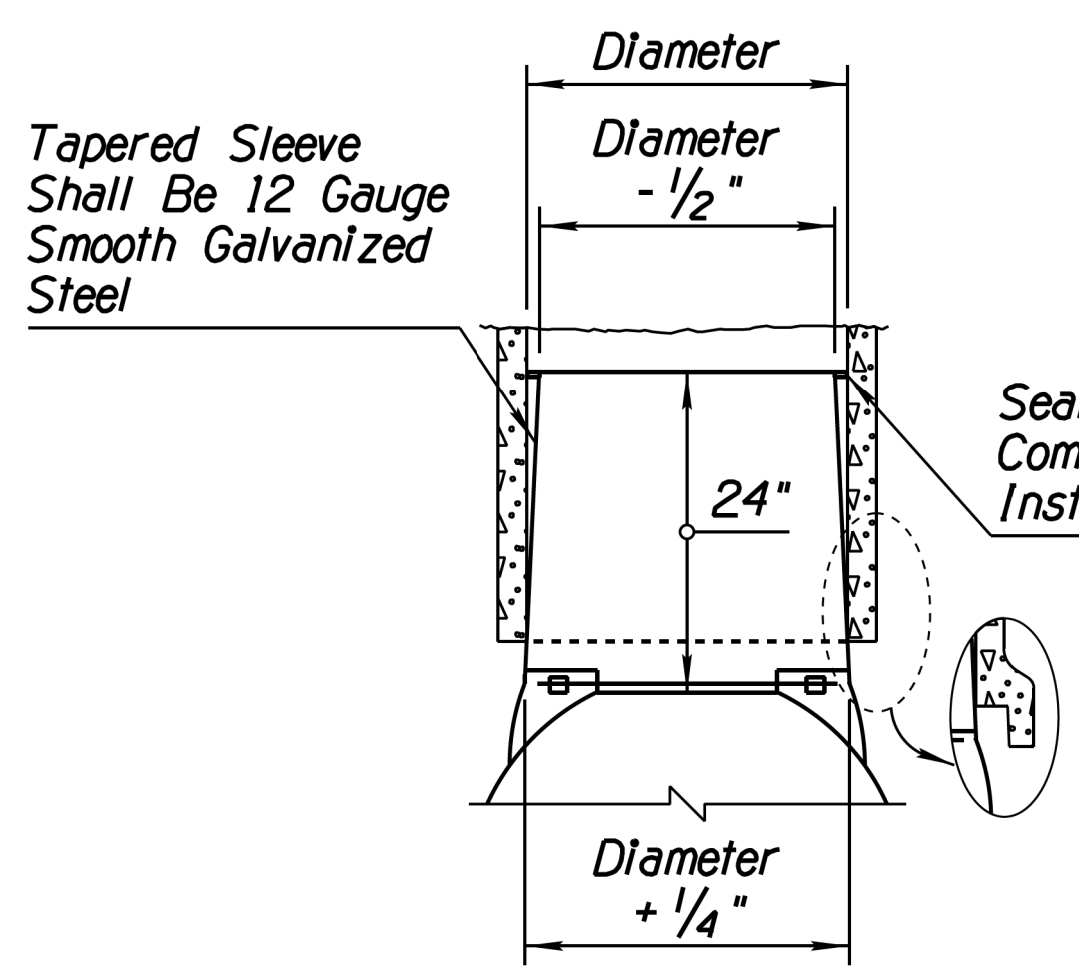
METAL END SECTION FOR ARCHED PIPES													
Equivalent Diameter (In)	(Inches)		Minimum Thickness		Dimensions (In)				L Dimensions				
	Span	Rise	In	Gauge	A	H	W	Overall Width	Slope H:V	Length (In)	Slope H:V	Length (In)	Slope H:V
18	21	15	.064	16	8	6	27	43	4:1	20	6:1	30	10:1
21	24	18	.064	16	8	6	30	46	4:1	32	6:1	48	10:1
24	28	20	.064	16	8	6	34	50	4:1	40	6:1	60	10:1
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84	10:1
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114	10:1
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138	-
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168	-
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198	-
60	71	47	.109	12	16	12	77	109	4:1	149	6:1	222	-
72	83	57	.109	12	16	12	89	121	4:1	188	6:1	282	-



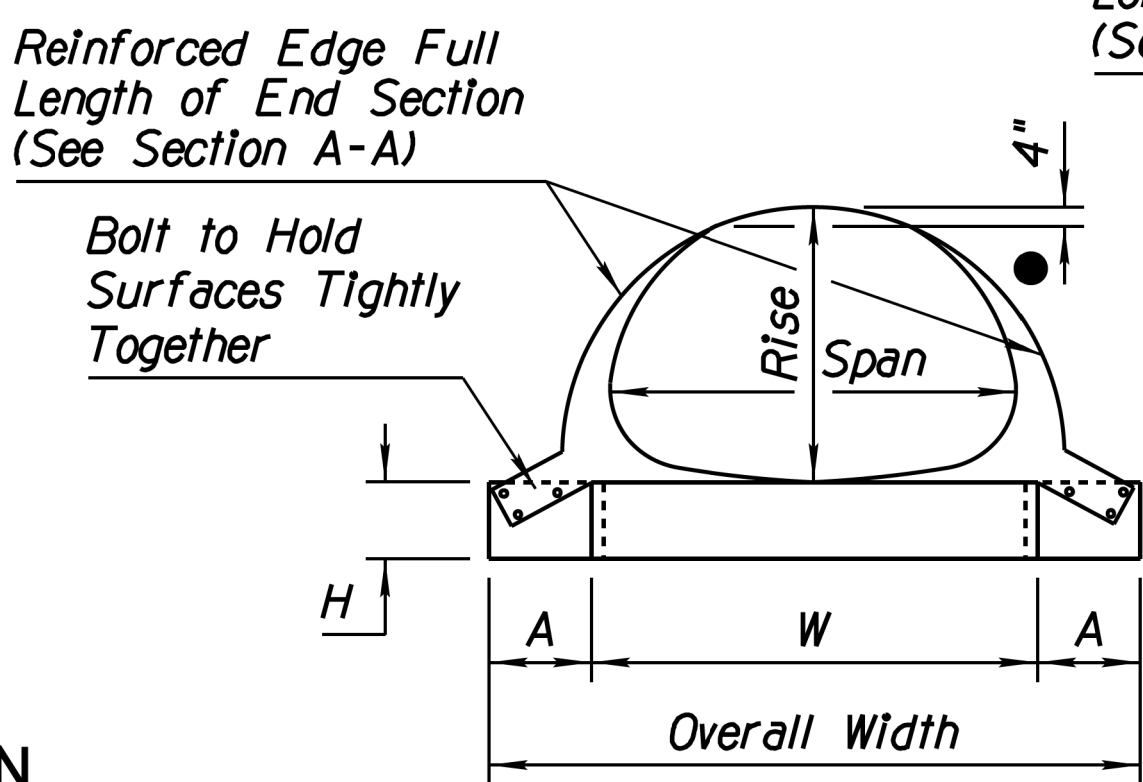
Circular Pipes 15-24" TYPE 1 CONNECTION



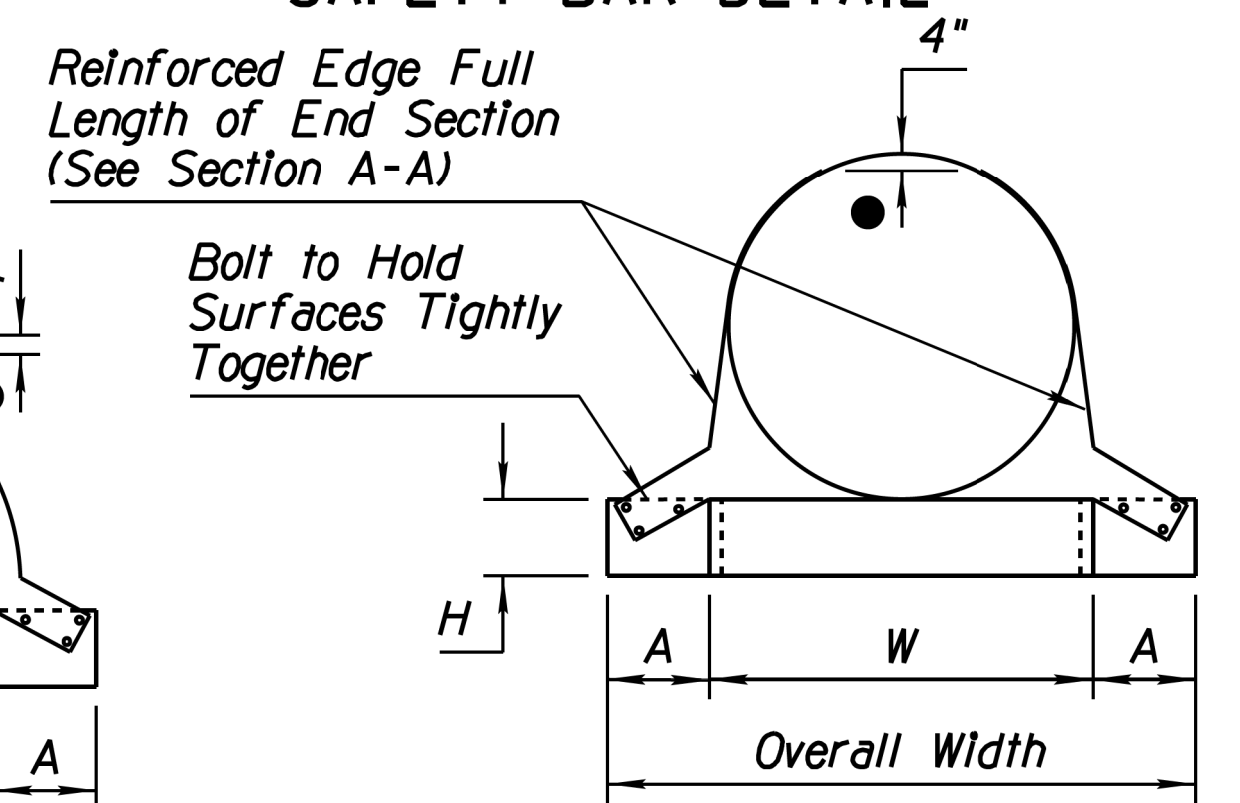
For 30" Diameter and Larger Circular Pipes, and All Arched Pipes TYPE 2 CONNECTION



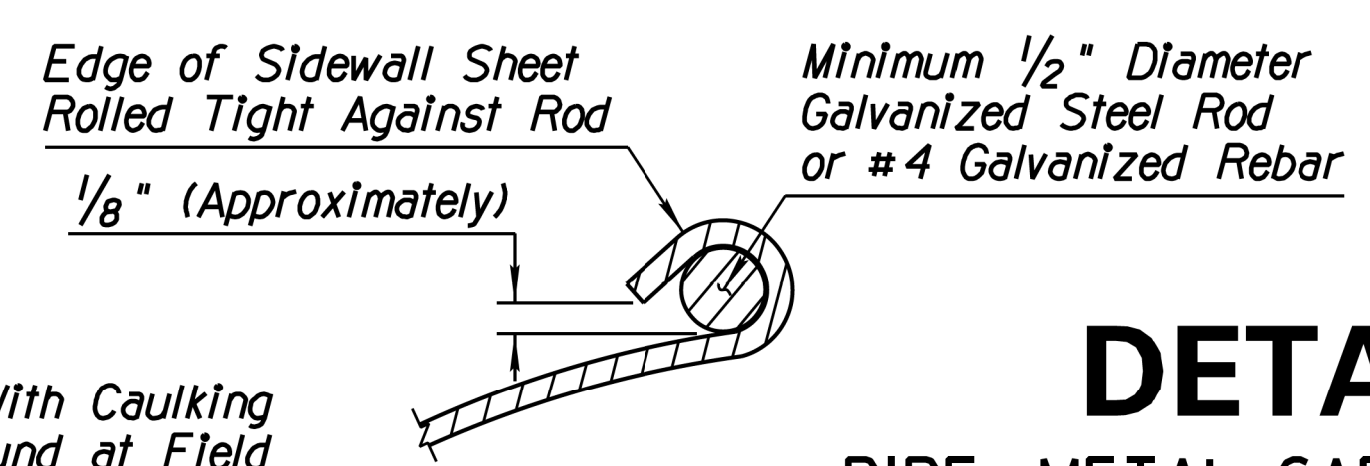
For All Concrete Pipes TYPE 3 CONNECTION



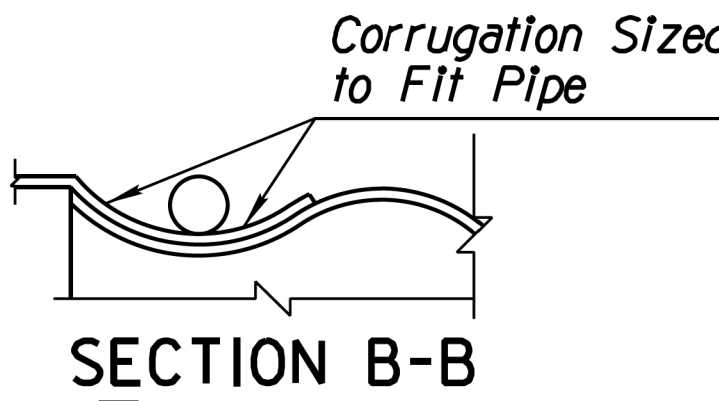
FRONT VIEW-ARCHED PIPE



FRONT VIEW-ROUND PIPE



SECTION A-A



SECTION B-B

DETAIL A

PIPE, METAL SAFETY END SECTION

- GENERAL NOTES**
- The size, slope and type of end section, whether parallel or cross drainage, shall be shown on the plans.
 - A longitudinal bar is required for cross-drainage end sections when the span (W) is greater than 30". Additional longitudinal bars shall be required if spacing exceeds 30" on larger end sections.
 - Safety and longitudinal bars are not required on 30" and smaller cross-drainage end sections.
- - Top of Sloped End Section
 - - These Sizes Are Not Normally Used for Culverts by ADOT
 - ▲ - Headwalls Are Normally Required for Pipe Sizes 48" and Larger

DESIGN APPROVED		ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY GROUP PLANS DETAIL	
Kenneth R. Cooper		DETAIL A	
APPROVED FOR DISTRIBUTION		SHEET OF	
J. C. Cooper		OF	
ROUTE LOCATION		TRACS NO.	
		OF	

Seed File=Z:\Root Workspace Location\Configuration\Organization-Civil\ADOT Corporate Standards\Seed\Rdwy_modelseed.dgn

Set Active>Sheet Model Drawing Scale1:1

Attach Reference file: Border into the Sheet Model 1:1
Place Active Cell
Attach File: Z:\Root Workspace Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\Plans\sheets.cel
Highlight GN01
right-click Place Cell
X Scale: 1.0
Y Scale: 1.0
Drop Element>Complex
delete all but GENERAL NOTES

Open LS1283 I-40 Report.txt

Copy
Project Name: LS1283
Description: I-40 A1 MTN TI

BASIS OF BEARINGS:
ADOT Engineering Survey Crew surveyed and provided the Coordinates for the project. Coordinates were based on NAD83\92 Horizontal and NAVD88 Vertical Datum with a GAF of 1.00045. NGS Control Points used for this project include: FLAGSTAFF NCMN RM 3, C504, PORTAL AZ MK, L490, and DOT.

BASIS OF ALIGNMENT AND STATIONS:
Best Fit Alignments were based on split of existing edge of pavement survey points and R\W Markers located in the field. The alignments were tied to Station: POB 2136+51.81 (POT 3802A I-40EB), POB 2136+87.27(POT 3802A I-40WB), POB 7280+00.0 (POT 3787 I-17NB), and POB 7285+00.0 (POT 3787 I-17SB). 3802A were tied to Station: POT 1579+41 I-40EB and POT 1567+33.01 I-40WB.

Record Drawings 40-3(22), ACNH-40-3(71), ACNH-40-3(87)A, and IM-40-3(78), were used to construct the alignment file.

BASIS OF ELEVATIONS:
NGS Monument Stamped PORTAL AZ MK with elevation 7000.968, was held as basis of elevation for the project.

Place Text>Paste

Open LS1283 CONTROL ADJUSTED GROUND.xls

1. Select the Area in the Excel file to be placed in MicroStation
 2. Copy
 3. In MicroStation, Right click in the View for the pop-up menu
 4. Select>Paste from Clipboard
 5. Select>Paste as: Embedded
 - Select>Method: By Size
 - Extended Setting>Select>Transparent Background and Rotate With View
 6. Pick where to Paste
- scale:1.00
Table Formatting, see P-STD 08

Print Monochrome

GENERAL NOTES

Project Name: LS1283
Description: I-40 A1 MTN TI

BASIS OF BEARINGS:
ADOT Engineering Survey Crew surveyed and provided the Coordinates for the project. Coordinates were based on NAD83\92 Horizontal and NAVD88 Vertical Datum with a GAF of 1.00045. NGS Control Points used for this project include: FLAGSTAFF NCMN RM 3, C504, PORTAL AZ MK, L490, and DOT.

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Record Drawings 40-3(22), ACNH-40-3(71), ACNH-40-3(87)A, and IM-40-3(78), were used to construct the alignment file.

BASIS OF ELEVATIONS:
NGS Monument Stamped PORTAL AZ MK with elevation 7000.968, was held as basis of elevation for the project.

FINAL GRID COORDINATES CENTRAL ZONE								
I-40 A-1 MOUNTAIN								
LS1283 F010701D								
CONTROL FROM P&M3894								
VALUES OBTAINED BY ESS								
DATA COLLECTED BY ESS					Legend:			
INTERNATIONAL FEET					NGS Control in the Area			
NAD83/92 HORIZONTAL & NAVD88 VERTICAL					ESS SET CONTROL			
GRID ADJUSTMENT FACTOR = 1.00045								
NAME		GRID (N)	GRID (E)	ELEVATION	DESCRIPTION			
PRIMARY								
FLAGSTAFF NCMN RM 3		1534319.838	784485.845	7111.312	NGS CONTROL			
C 504		1532066.498	819840.961	6668.258	NGS CONTROL			
PORTAL AZ MK		1510192.752	770235.174	7000.968	NGS CONTROL	BASIS OF ELEVATION		
L 490		1539606.737	731255.403	7128.524	NGS CONTROL			
DOT		1538275.476	733559.799	7131.923	NGS CONTROL			
SECONDARY								
PORTAL CHK		1510153.336	770242.957	7000.826	ESS SET			
TRAV1		1521504.649	777158.748	6873.854	ESS SET			
TRAV2		1521549.267	777130.791	6876.553	ESS SET			
TRAV3		1521235.738	776758.434	6883.274	ESS SET			

g01 - Geometry Sheet

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BEFORE FORMATTING

Horizontal Elements Table Report											
Report Created: Tuesday, April 17, 2018 Time: 5:57:03 AM											
Project: Default											
Description: Z:\Root Workspace											
File Name: Location\Configuration\WorkSpaces\ADOT\WorkSets\dev\dgn\3D\Mainline_Corridor.dgn											
Last Revised: 4/17/2018 5:56											
Note: All units in this report are in feet unless specified otherwise.											
Element	Point Type	Point Number	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	K	P
Alignment Name: 100											
Description:											
Style: Alignment\Geom_Baseline											
Tangent	POB		1892+00.00	1528296.31	750653.68						
Tangent	PC		1895+02.19	1528261.98	750953.92						

AFTER FORMATTING

Horizontal Elements Table Report

Report Created: Tuesday, April 17, 2018
Time: 5:57:03 AM

Project: Default
Description:

File Name: Z:\Root Workspace
Location\Configuration\WorkSpaces\A

Last Revised: 4/17/2018 5:56
Note: All units in this report are in feet unless specified otherwise.

	Point	Point						Delta /	Rotation		
Element	Type	Number	Station	Northing	Easting	Radius	Length	Theta	Direction	K	P
Alignment Name: 100											
Description:											
Style: Alignment\Geom_Baseline											
Tangent	POB		1892+00.00	1528296.31	750653.68						
Tangent	PC		1895+02.19	1528261.98	750953.92						

EXCEL IMPORTS
GENERAL NOTES

1. Select the Area in the Excel file to be placed in MicroStation
2. Copy
3. In MicroStation, Right click in the View for the pop-up menu
4. Select>Paste from Clipboard
5. Select>Paste as: Embedded
- Select>Method: By Size
- Extended Settings Select>Transparent Background and Rotate With View
6. Pick where to Paste

General Formatting for the Excel file
All Text should be Arial
Title Text should be 24 Bold
New Text should be 18 Italic
Existing Text should be 14

				Existing Text		New Text		Title Text			
				.012		.015		.020		MicroStation Text	
8	9	10	11	12	14	16	18	20	22	24	Excel Text

Horizontal Elements Table Report

Report Created: Tuesday, April 17, 2018
Time: 5:57:03 AM

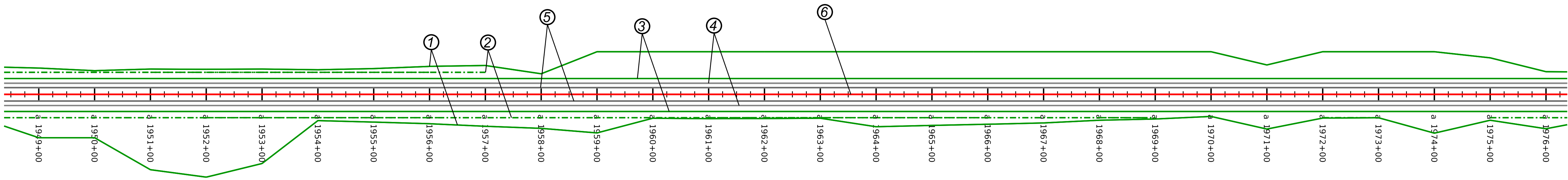
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Note: All units in this report are in feet unless specified

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Description:											
Style:			Alignment\Geom_Baseline								
Tangent	POB		1892+00.00	1528296.31	750653.68						
Tangent	PC		1895+02.19	1528261.98	750953.92						
Arc	PC		1895+02.19	1528261.98	750953.92						
Arc	PI		1908+86.28	1528104.76	752329.05	4583.66	2688.37	33.605°	Right		
Arc	CC			1523707.99	750433.25						
Arc	PT		1921+90.56	1527212.73	753387.35						
Tangent	PT		1921+90.56	1527212.73	753387.35						
Tangent	TS		1926+17.43	1526937.62	753713.74						
Clothoid	TS		1926+17.43	1526937.62	753713.74						
Clothoid	SPI		1928+17.46	1526808.71	753866.69		300	3°	Left	149.99	1.31
Clothoid	SC		1929+17.43	1526748.33	753946.44						
Arc	SC		1929+17.43	1526748.33	753946.44						
Arc	PI		1932+54.84	1526544.68	754215.46	2864.79	671.72	13.434°	Left		
Arc	CC			1529032.42	755675.58						
Arc	CS		1935+89.16	1526409.1	754524.43						
Clothoid	CS		1935+89.16	1526409.1	754524.43						
Clothoid	SPI		1936+89.18	1526368.9	754616.02		300	3°	Left	149.99	1.31
Clothoid	ST		1938+89.16	1526298.22	754803.15						
Tangent	ST		1938+89.16	1526298.22	754803.15						
Back Station			1938+89.16	1526298.22	754803.15						
Ahead Station			a 1939+27.16								
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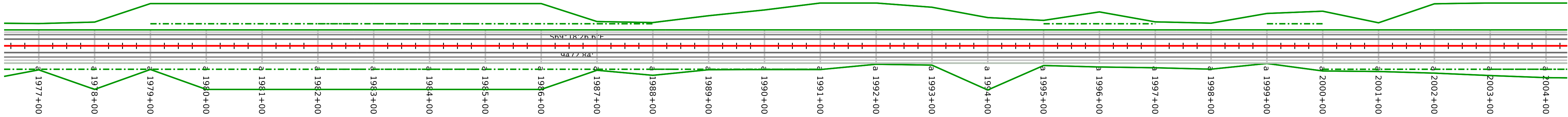
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DESIGN	
DRAWN	
CHECKED	
TEAM LEADER	

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

F.H.W.A. Arizona Division		STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
ARIZ.			040 CN 190	040-C(224)T			
ROUTE I-40	A-1 MOUNTAIN TI UP STR. NO. 896						
TRACS NO. F0107 01C						____ OF ____	



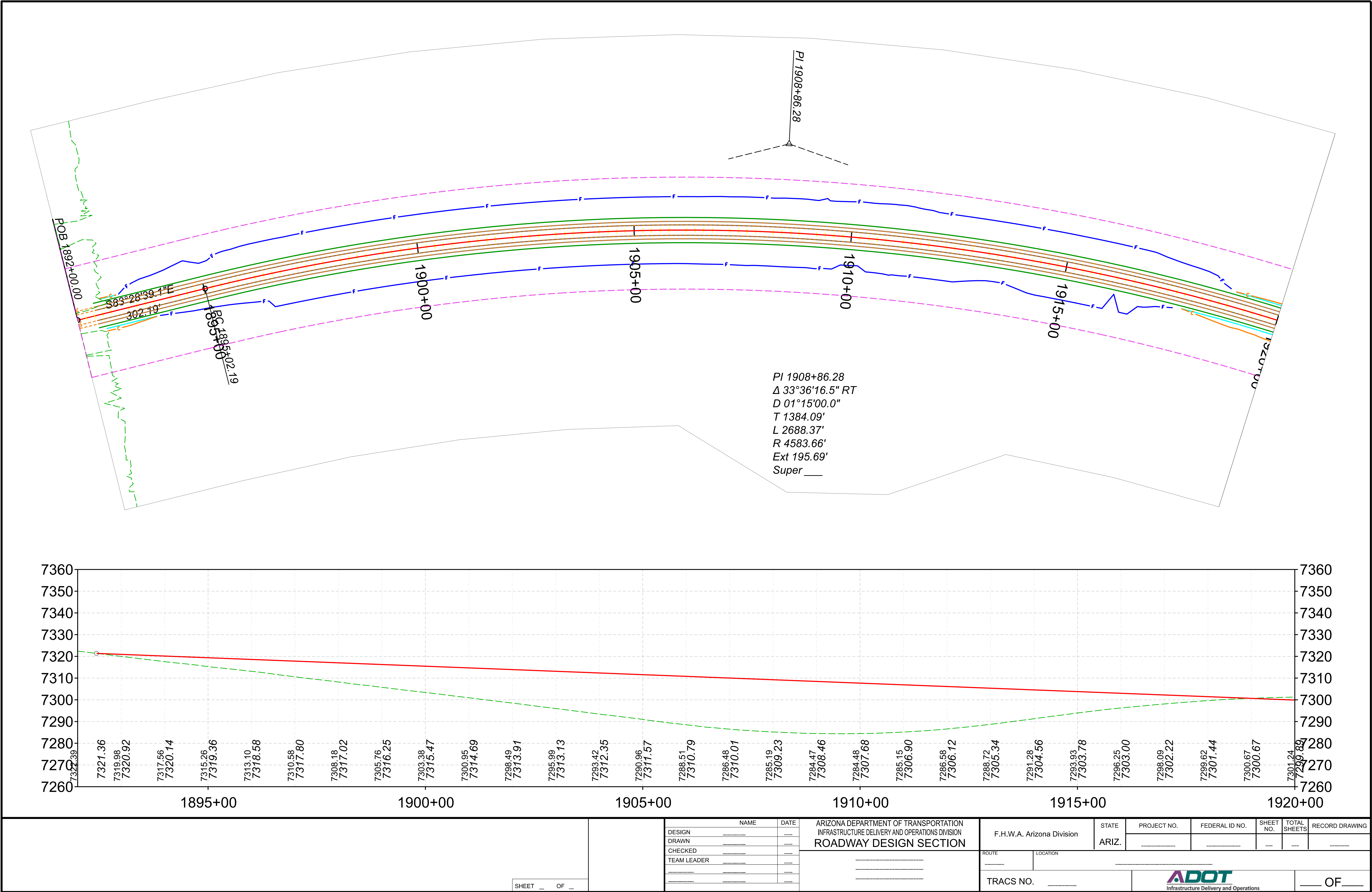
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①	TL_End Condition Cut Tie		End Condition Ditch Cut Tie	114	0	2	NULL	114	0	3	NULL
②	TL_End Condition Ditch Out		End Condition Ditch Outside Edge	114	0	2	NULL	114	4	3	NULL
③	TL_End Condition Hinge		End Condition Hinge	114	0	2	NULL	114	0	3	NULL
④	TL_Shoulder Edge		Edge of Shld Top	128	0	2	NULL	128	0	3	NULL
⑤	TL_Pavement Edge		Edge of Pavt Top	9	0	2	NULL	168	0	3	NULL
⑥	Geom_Baseline		Prop Centerline	3	0	3	NULL	3	0	3	NULL

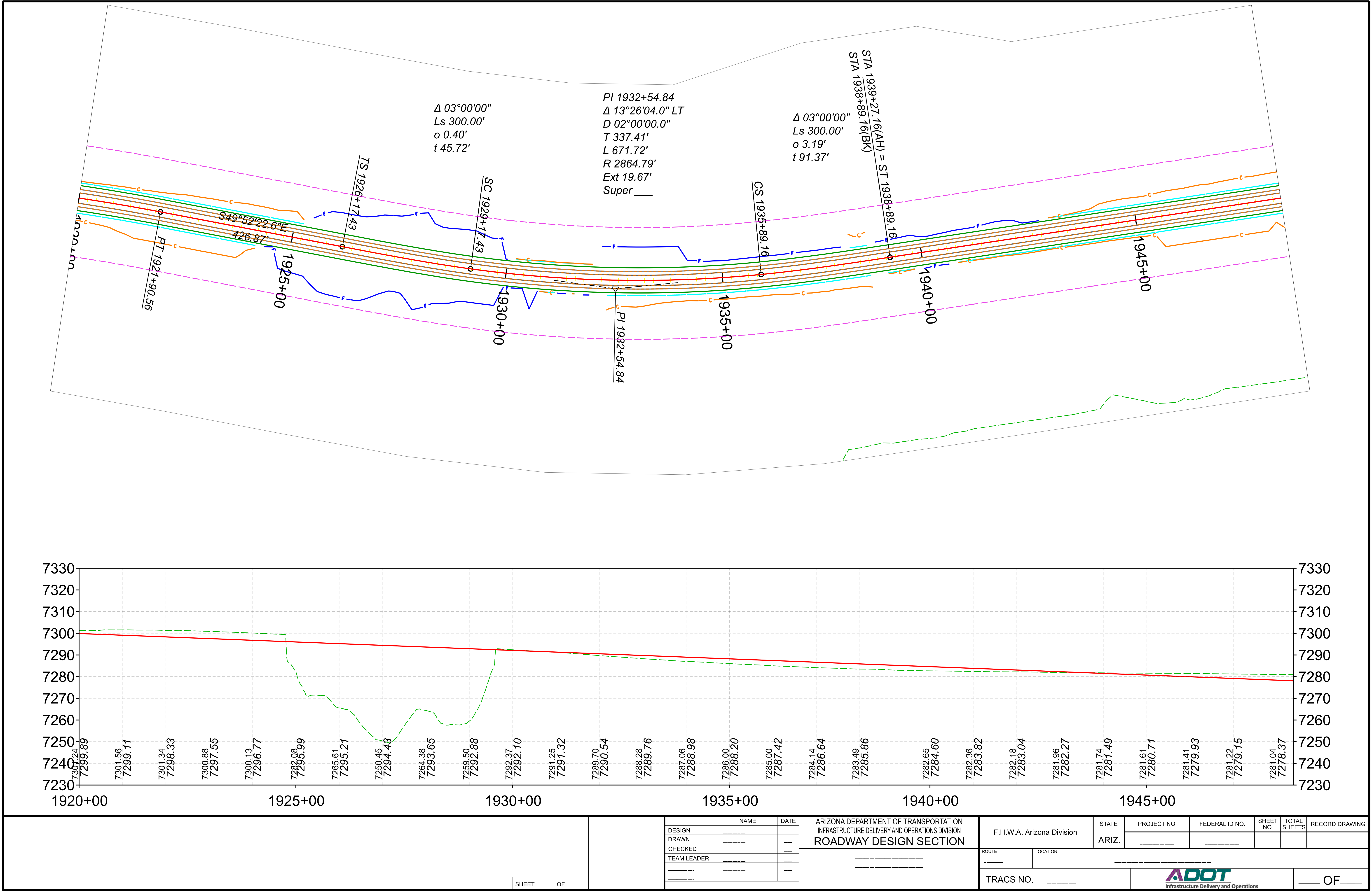


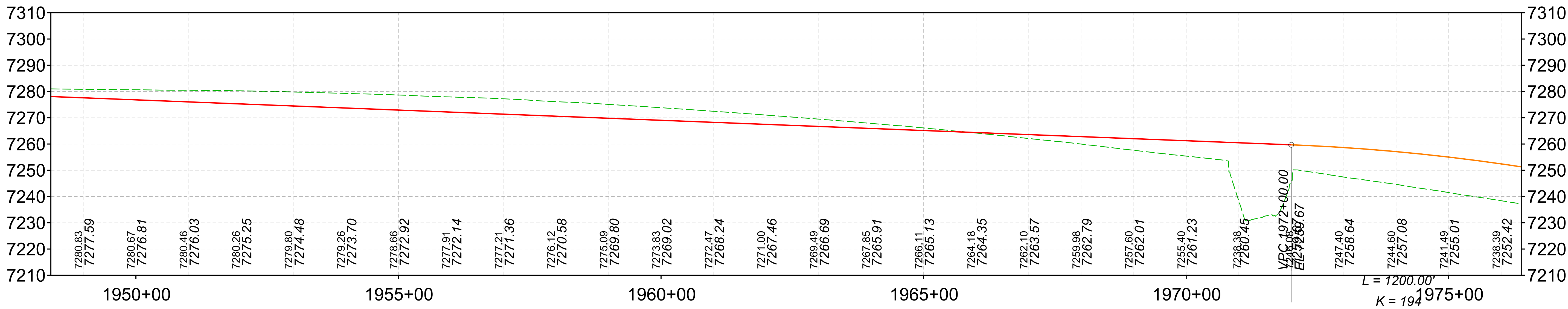
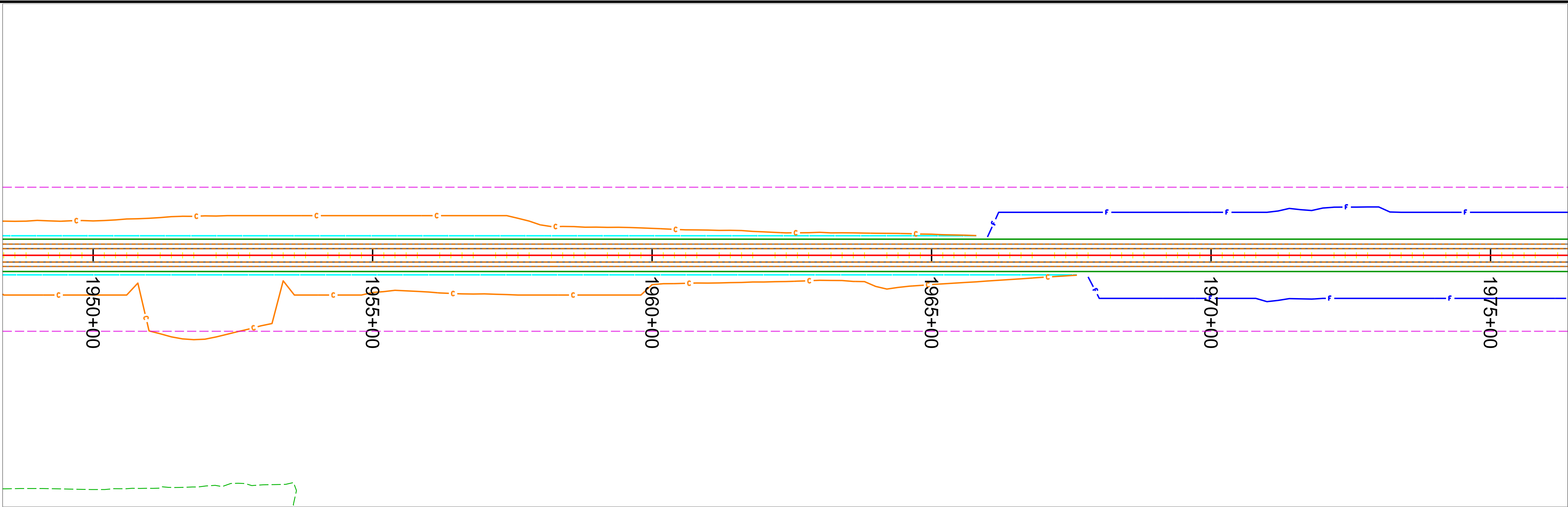
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TEAM LEADER	

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

F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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ROUTE I-40	LOCATION	A-1 MOUNTAIN TI UP STR. NO. 896				
TRACS NO.	F0107 01C	ADOT Infrastructure Delivery and Operations				OF







SHEET 1 OF 1

NAME	DATE
DESIGN	_____
DRAWN	_____
CHECKED	_____
TEAM LEADER	_____
_____	_____
_____	_____

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

F.H.W.A. Arizona Division

STATE
ARIZ.

PROJECT NO.

FEDERAL ID NO.

SHEET
NO. _____

TOTAL
SHEETS _____

RECORD DRAWING

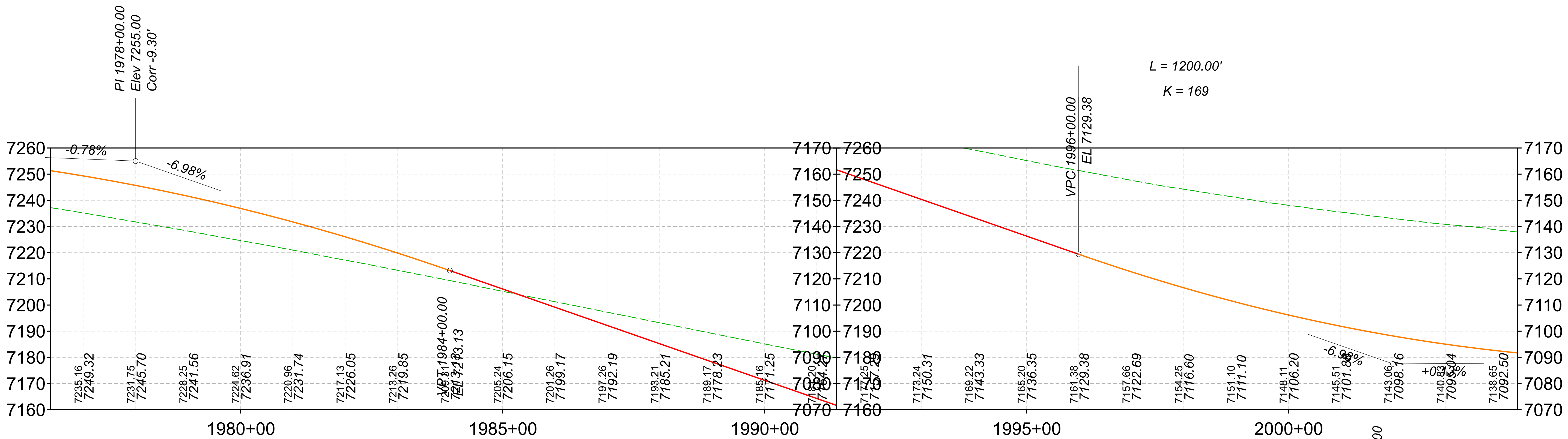
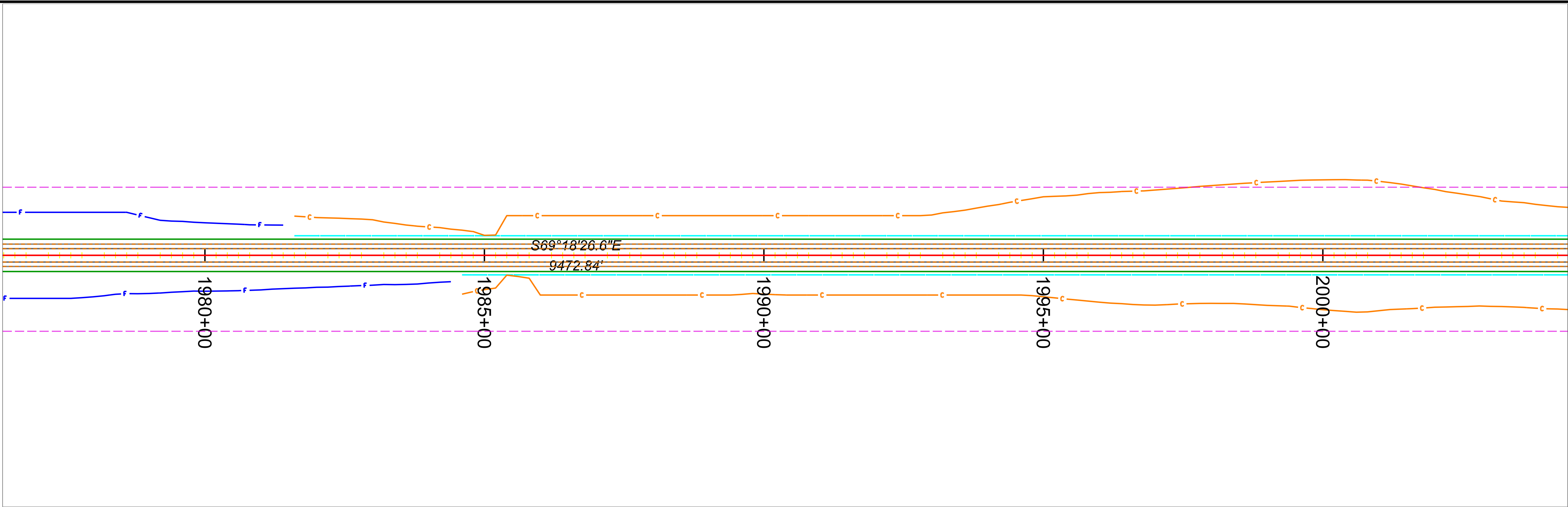
ROUTE

LOCATION

TRACS NO. _____



____ OF ____



SHEET 1 OF 1

NAME	DATE
DESIGN	
DRAWN	
CHECKED	
TEAM LEADER	

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

F.H.W.A. Arizona Division

STATE
ARIZ.

PROJECT NO.

FEDERAL ID NO.

SHEET NO.

TOTAL SHEETS

RECORD DRAWING

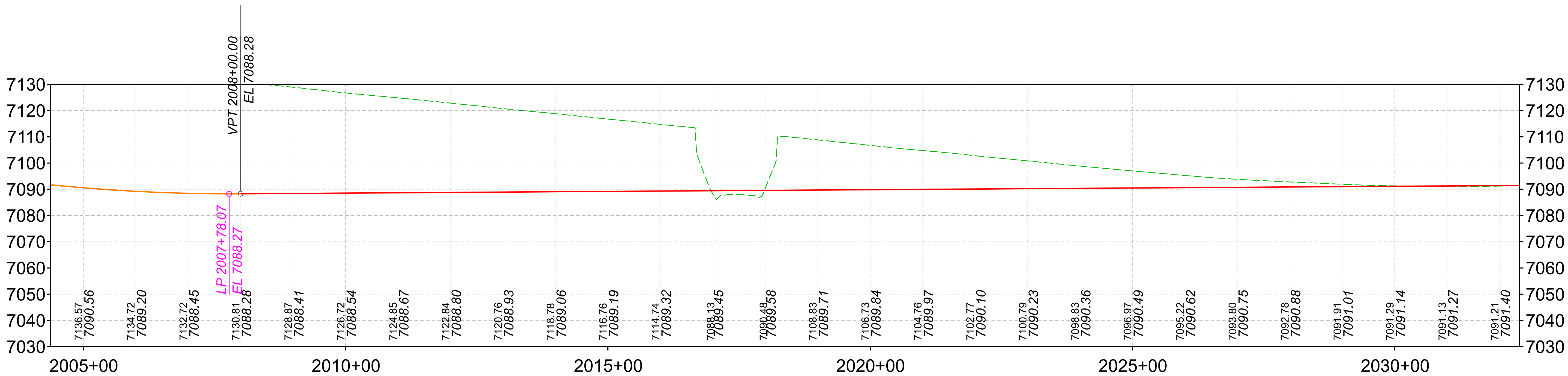
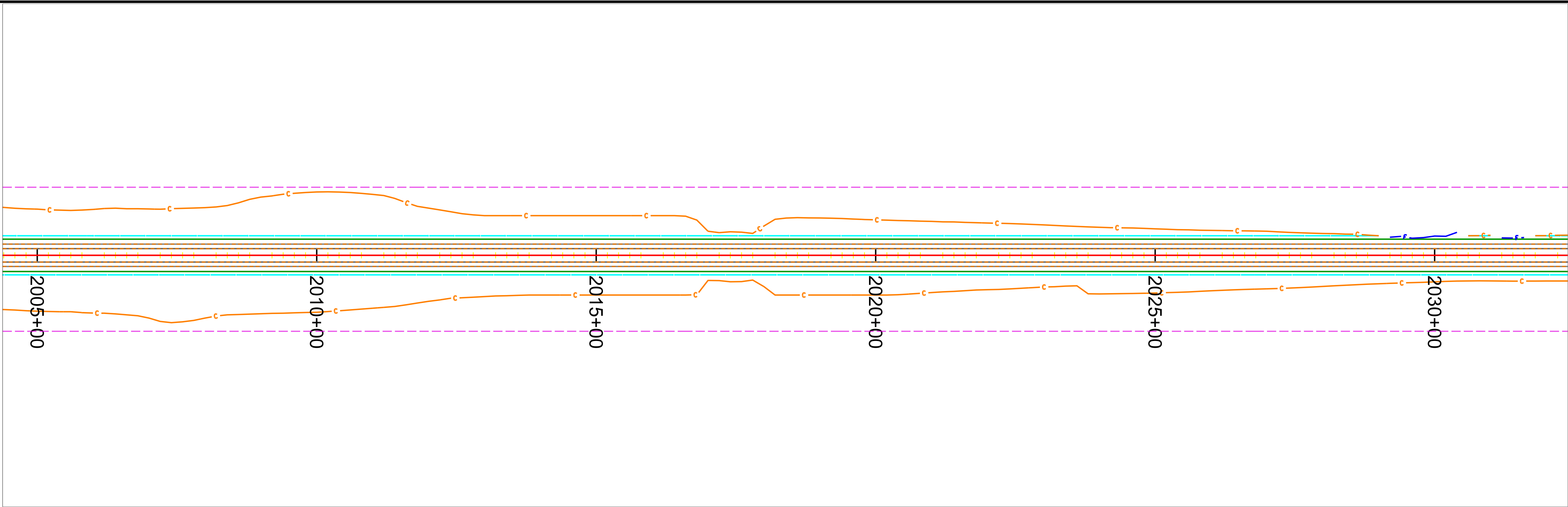
ROUTE

LOCATION

TRACS NO.

ADOT
Infrastructure Delivery and Operations

OF



SHEET _ OF _

NAME	DATE
DESIGN	_____
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CHECKED	_____
TEAM LEADER	_____
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ARIZONA DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION
ROADWAY DESIGN SECTION

F.H.W.A. Arizona Division

STATE

ARIZ.

PROJECT NO.

FEDERAL ID NO.

SHEET

NO.

TOTAL

SHEETS

RECORD DRAWING

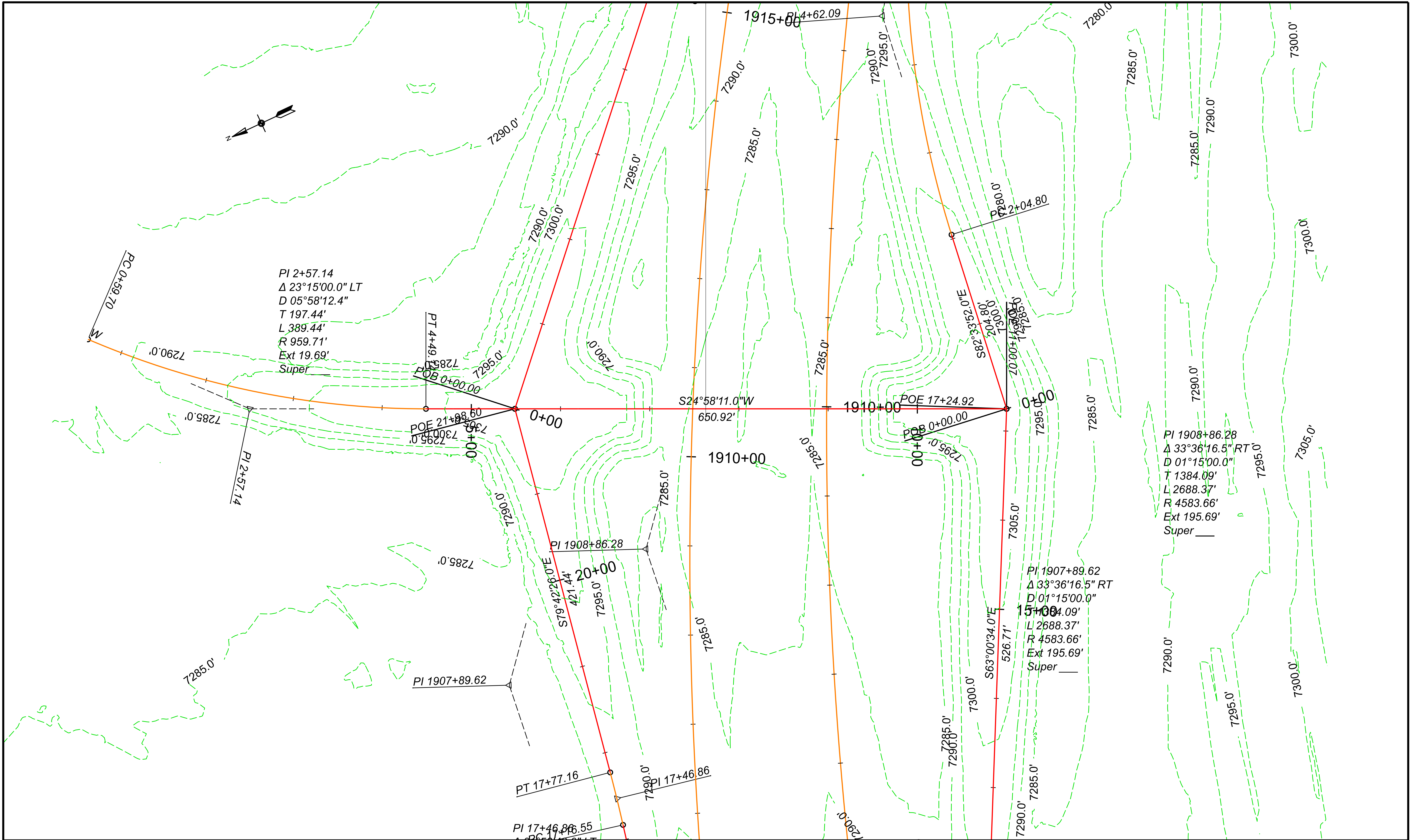
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LOCATION

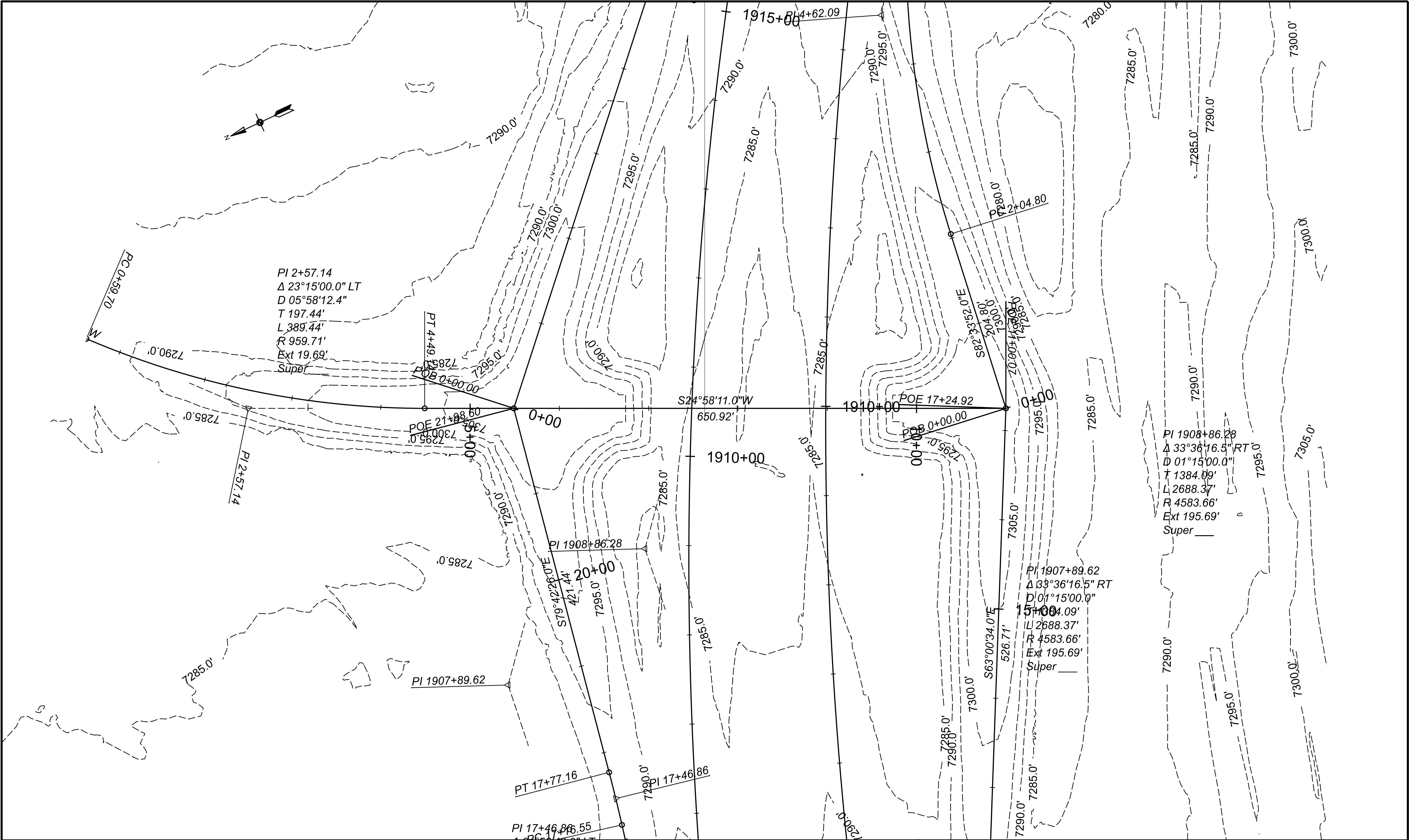
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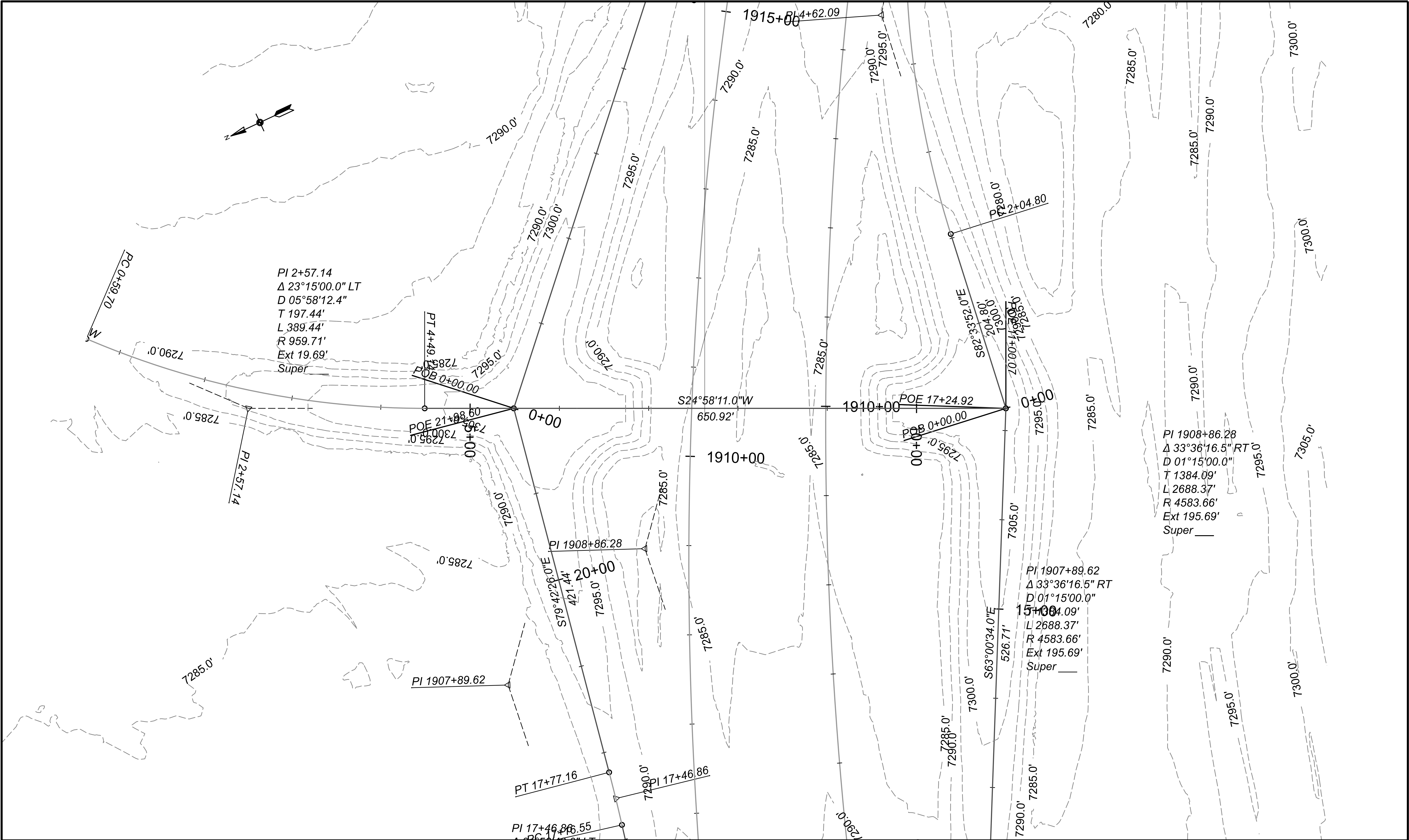
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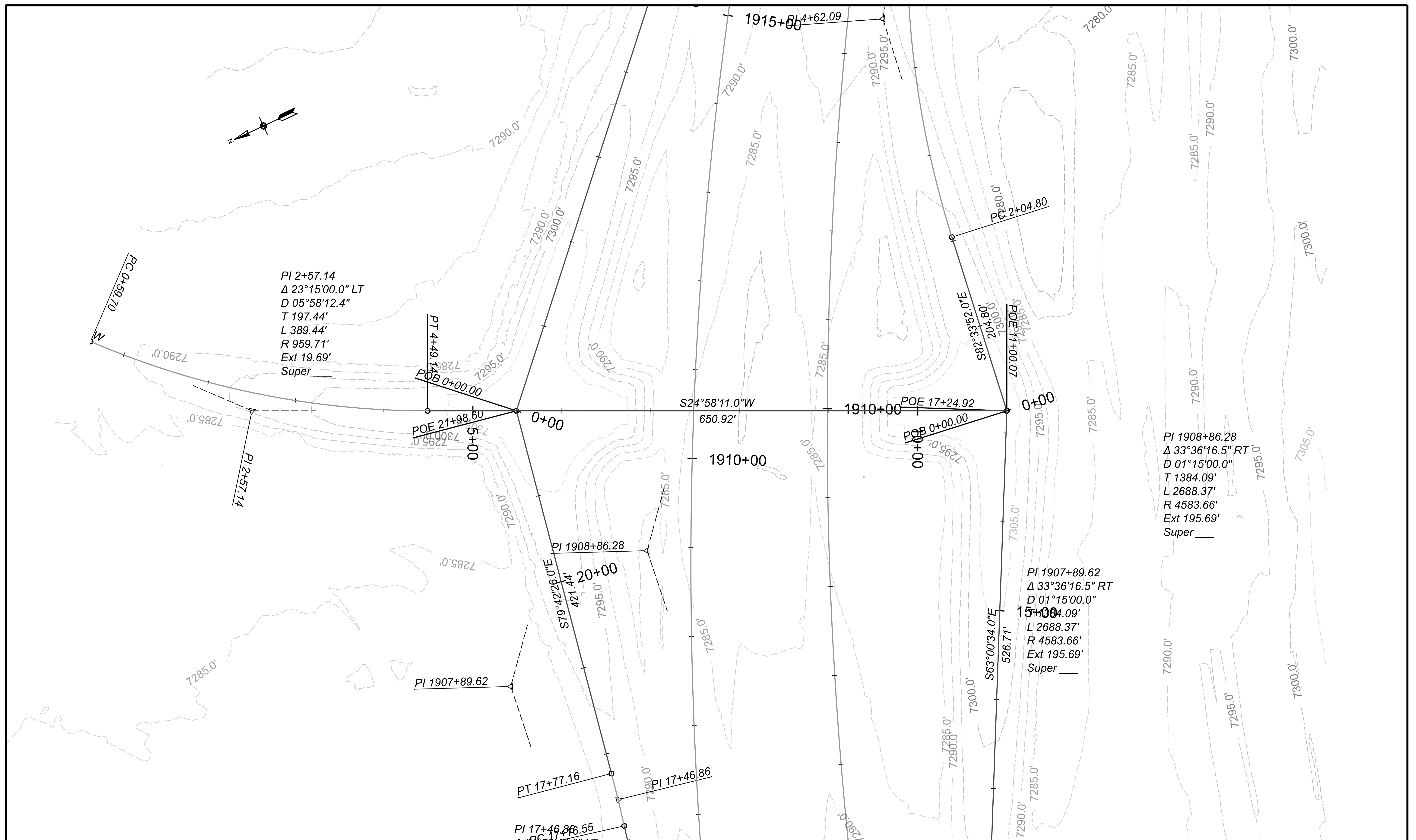
SHEET ____ OF ____	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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	CHECKED										
	TEAM LEADER				ROUTE	LOCATION	ADOT Infrastructure Delivery and Operations				
					TRACS NO.		____ OF ____				

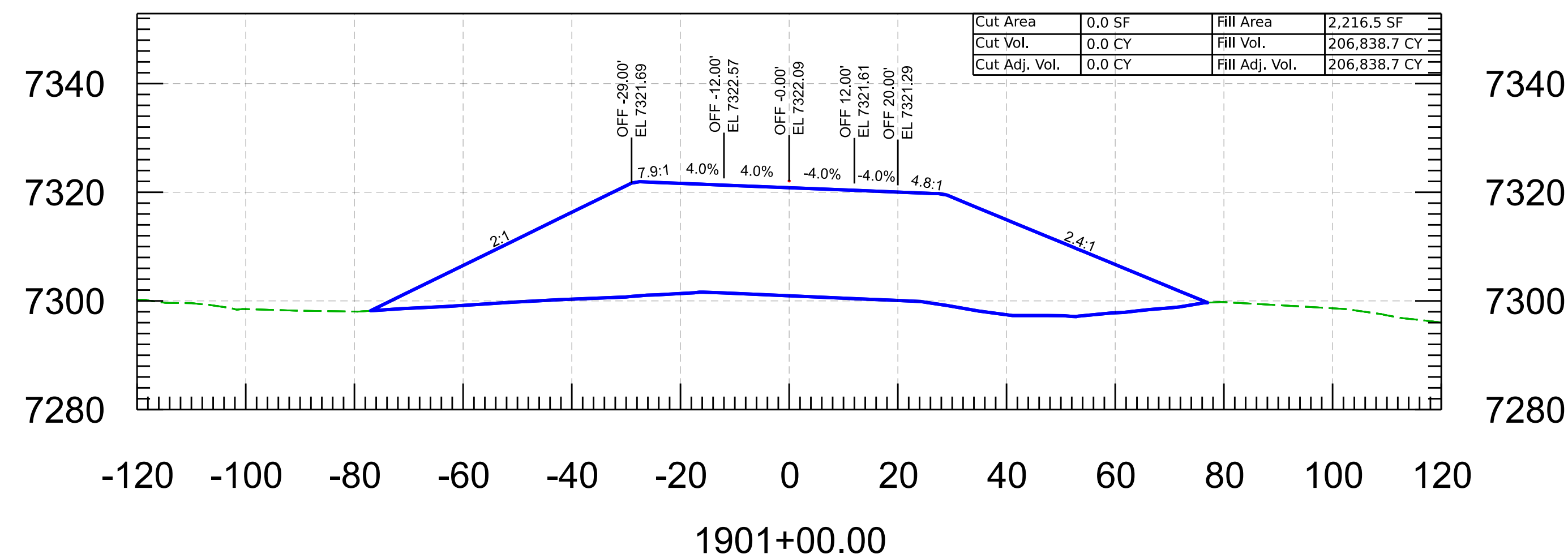
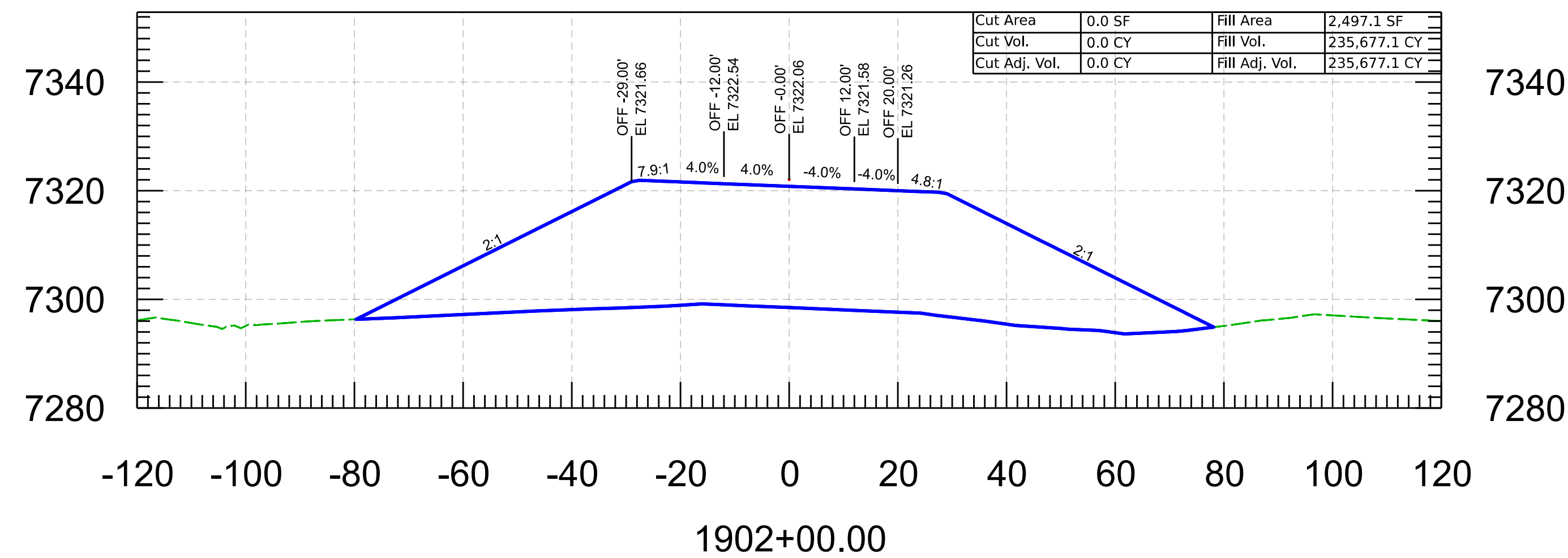
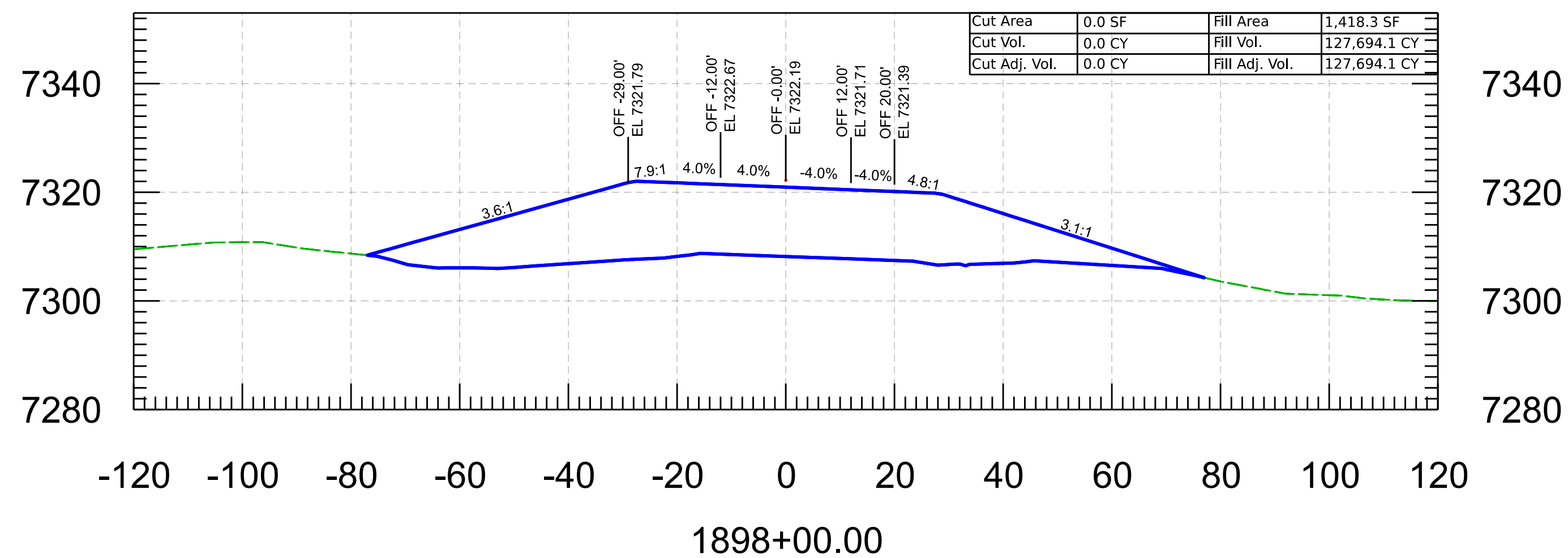
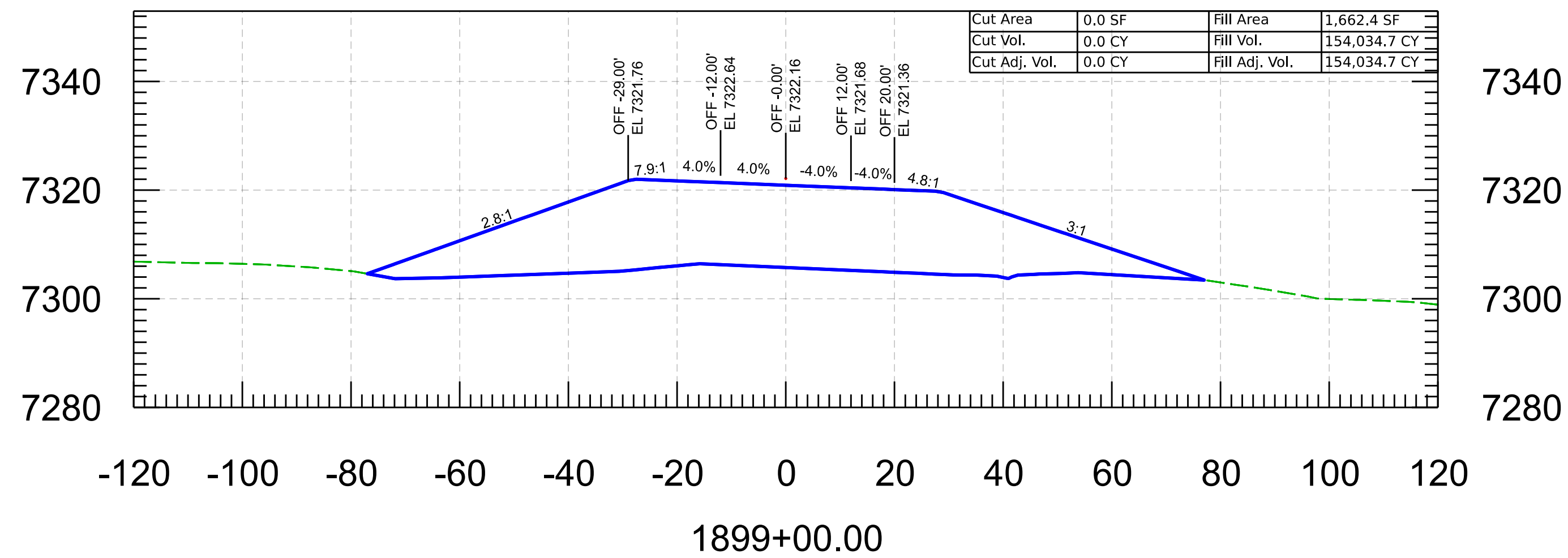
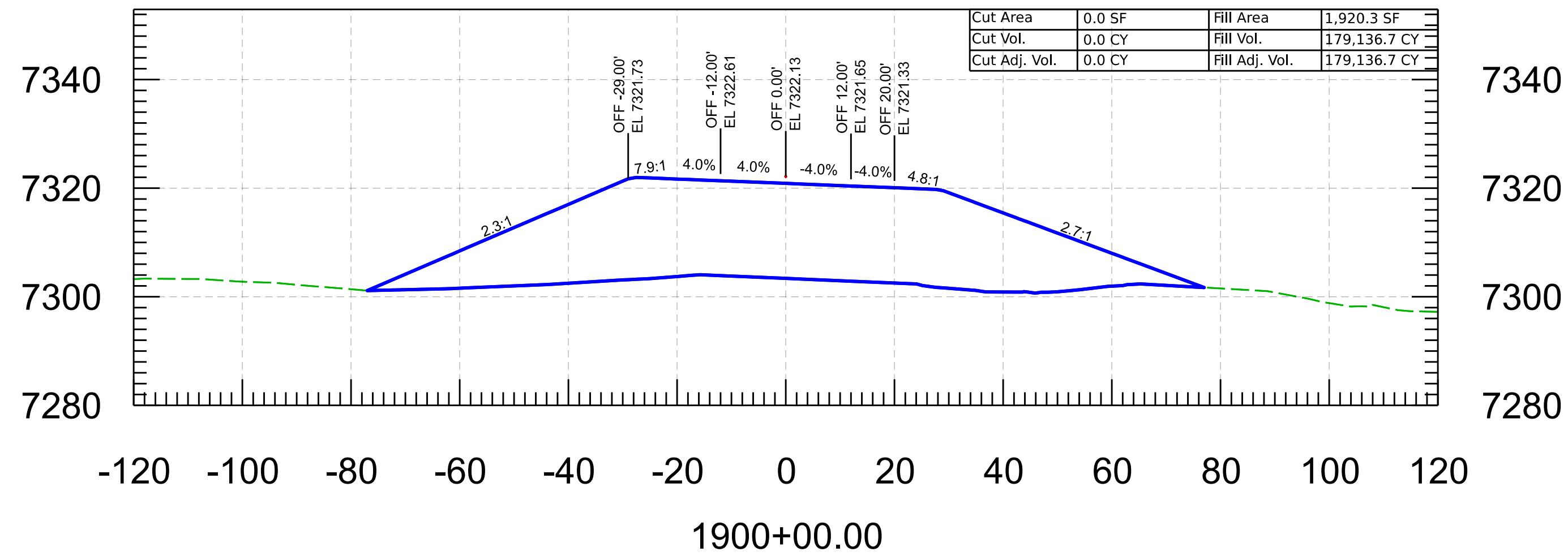


SHEET ____ OF ____	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	F.H.W.A. Arizona Division	STATE	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
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	CHECKED										
	TEAM LEADER				ROUTE	LOCATION					
					TRACS NO.					____ OF ____	



SHEET ____ OF ____	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN								0		
	CHECKED										
	TEAM LEADER				ROUTE	LOCATION					
					TRACS NO.		ADOT Infrastructure Delivery and Operations				____ OF ____

[illegible]



SHEET ____ OF ____	DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION ROADWAY DESIGN SECTION	F.H.W.A. Arizona Division	STATE ARIZ.	PROJECT NO.	FEDERAL ID NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING
	DRAWN	_____	_____				_____	_____	_____	0	_____
	CHECKED	_____	_____				_____	_____	_____	_____	_____
	TEAM LEADER	_____	_____				_____	_____	_____	_____	_____
				ROUTE	LOCATION	ADOT Infrastructure Delivery and Operations					
				TRACS NO.		____ OF ____					

