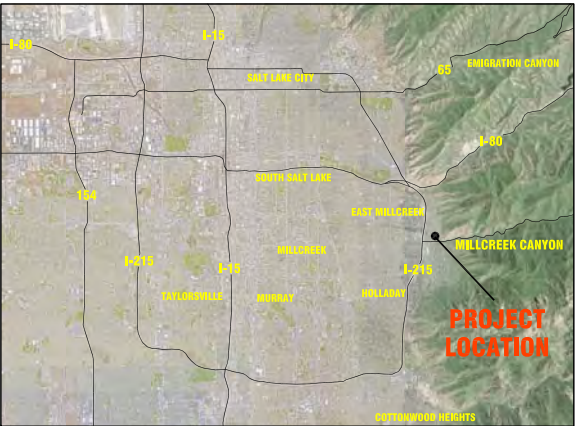


NAISBITT PROPERTY - MILL CREEK

OWNER: PRIVATE LAND OWNER
ADDRESS INFORMATION REMOVED
SALT LAKE CITY, UTAH
84109

SHEET SET ASSEMBLY ORDER

SHEET DESIGNATOR	BINDING ORDER	SHEET TITLE
COVER SHEET	1	CV 01
PLAN VIEW	2	PV 01
LONG PROFILE	3	LP 01
DETAIL SHEET/CROSS SECTION	4	CS 01
DETAIL SHEET/CROSS SECTION	5	CS 02
DETAIL SHEET/CROSS SECTION	6	CS 03
DETAIL SHEET/CROSS SECTION	7	CS 04
DETAIL SHEET	8	DT 01



A REPRESENTATIVE LOCATION FOR PROJECT IS LOCATED AT
LATITUDE/LONGITUDE 40°41'25.40" NORTH X 111°47'25.31" WEST

LOCAL MAP
NOT TO SCALE



CIVIL DESIGN ENGINEER:
EQUINOX ENGINEERING
POST OFFICE BOX 612
WEST JORDAN, UTAH 84084
(801) 739-8218



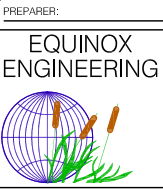
UTAH MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE



PROJECT IDENTIFICATION:
**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:
**INFORMATION
REMOVED**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-53-01**
SUBMITTAL #: **100**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/01/2017**

SHEET TITLE:
COVER SHEET



SHEET IDENTIFIER:
CV 01
BINDING ORDER **01**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- 4210 EXISTING CONTOUR MAJOR
- 4205 EXISTING CONTOUR MINOR
- CROSS SECTION LOCATION
- EXISTING FENCE
- PROPOSED SCOUR PROTECTION
V WEIR DROP STRUCTURE
SEE DETAILS ON SHEETS
DT 01 & DT 02
- PROJECT ELEVATION CONTROL HUB
ELEVATION = 4955.28
CONTRACTOR TO PRESERVE AND PROTECT
- SECOND PROJECT ELEVATION CONTROL
TOP OF SOUTH EAST EDGE OF CORNER OF
STONE STEP
ELEVATION = 4956.39

PREPARED BY:
EQUINOX ENGINEERING

PROFESSIONAL SEAL:


PROJECT IDENTIFICATION:
NAISBITT PROPERTY MILLCREEK
PROJECT OWNER:
INFORMATION REMOVED

MARK	DATE	DESCRIPTION

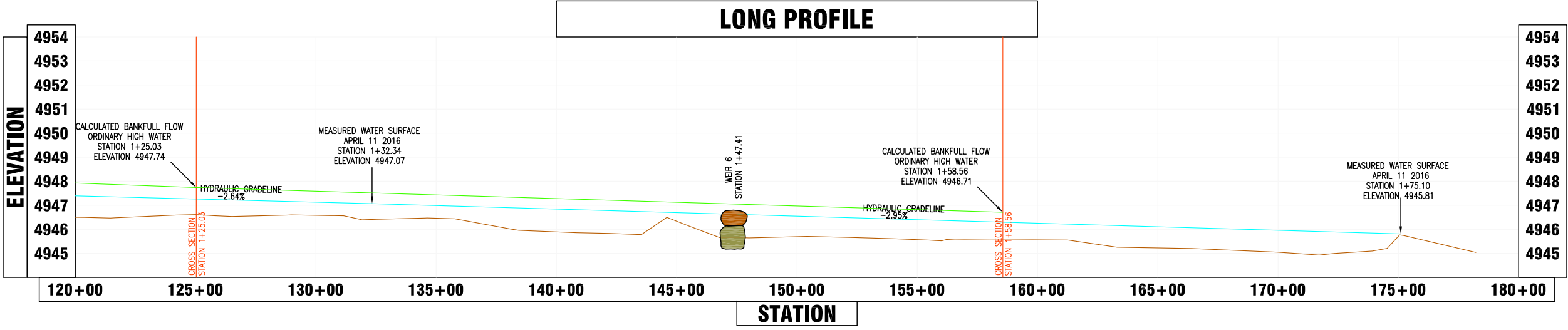
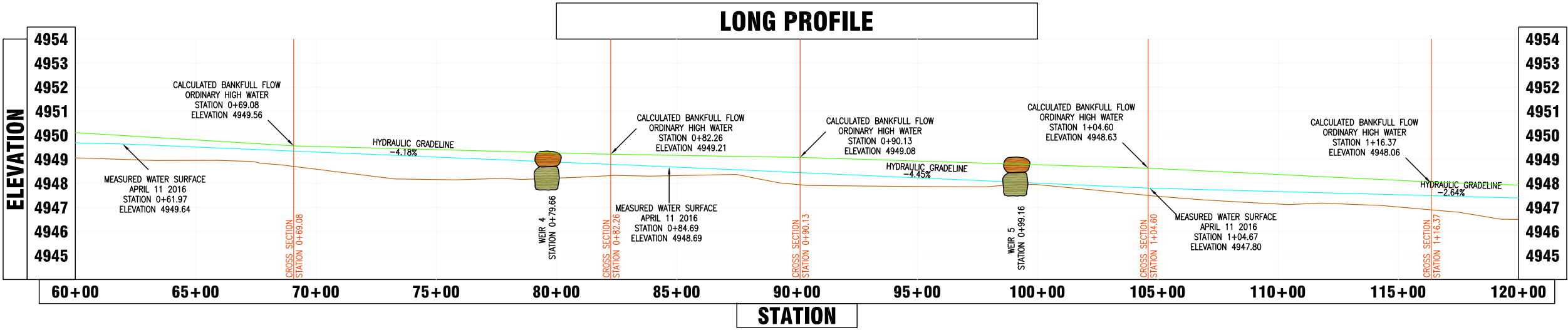
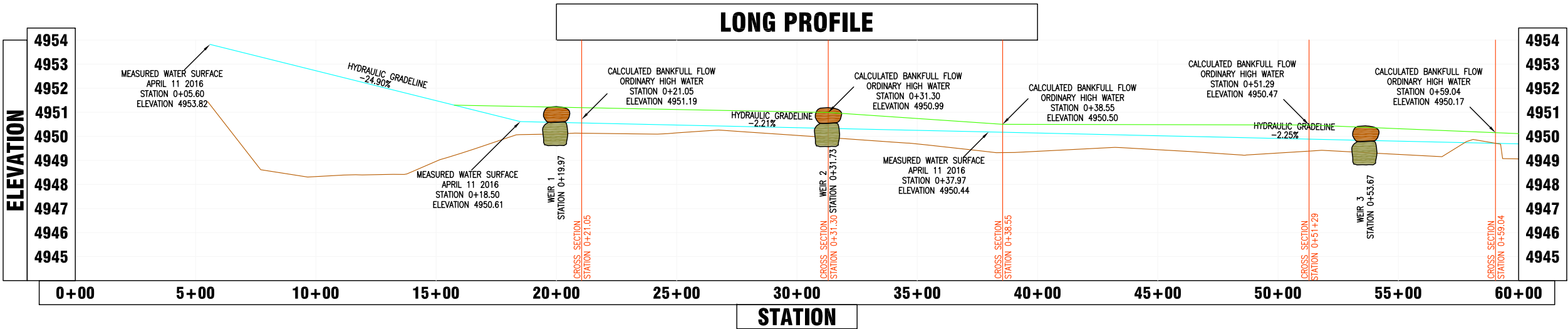
PROJECT #:
SUBMITTAL #:
DRAWING BY:
CHECKED BY:
DATE:

UT-53-01
100
SMC
WEC
08/01/2017

SHEET TITLE:
PLAN VIEW

SHEET IDENTIFIER:
PV 01
BINDING ORDER
02

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- WATER SURFACE -
HYDRAULIC GRADELINE
- EXISTING CHANNEL FLOWLINE
- CALCULATED BANKFULL / ORDINARY
HIGH WATER
- CROSS SECTION LOCATION
- V WEIR - CAP ROCK
- V WEIR - FOOTER ROCK

PREPARED BY:
**EQUINOX
ENGINEERING**

PROFESSIONAL SEAL:

PROJECT IDENTIFICATION:
**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:
**INFORMATION
REMOVED**

MARK	DATE	DESCRIPTION

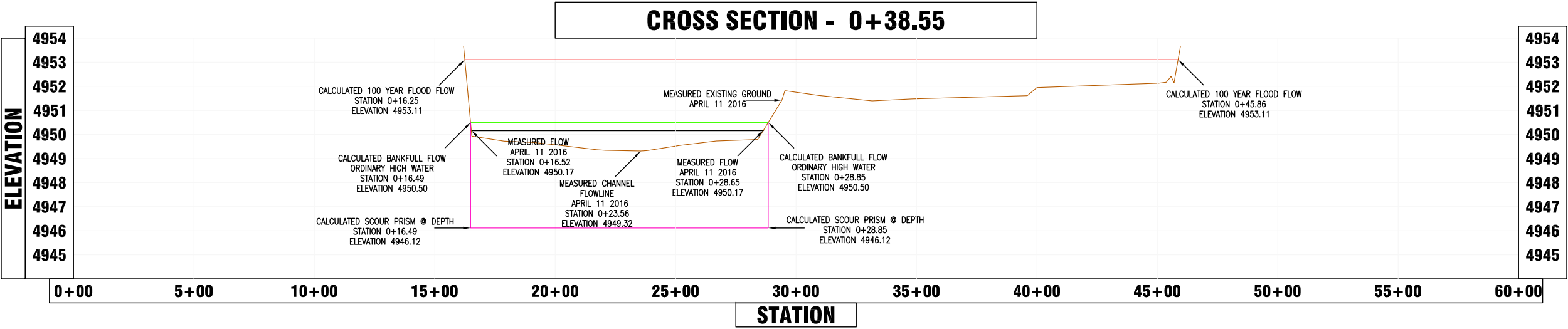
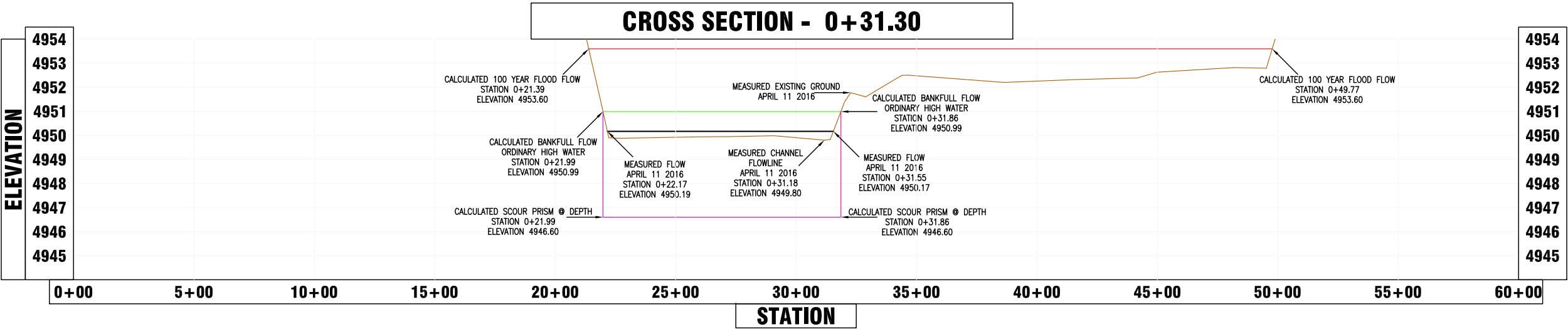
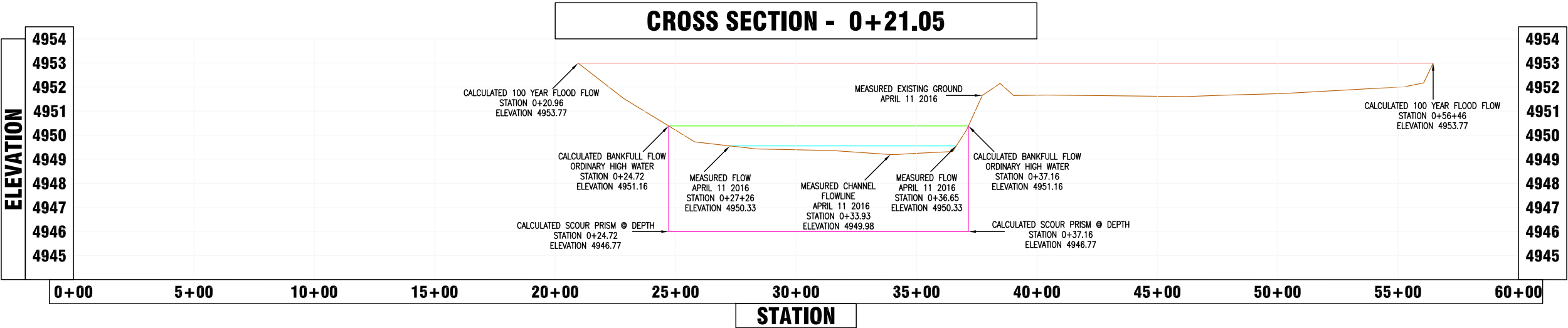
PROJECT #:
SUBMITTAL #:
DRAWING BY:
CHECKED BY:
DATE:

UT-53-01
100
SMC
WEC
08/01/2017

SHEET TITLE:
LONG PROFILE

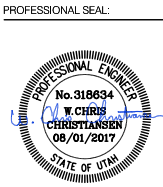
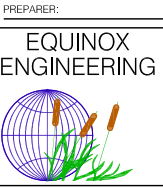
SHEET IDENTIFIER:
LP 01
BINDING ORDER **03**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- WATER SURFACE - HYDRAULIC GRADELINE
- EXISTING GROUND
- CALCULATED 100 YEAR FLOOD FLOW
- CALCULATED BANKFULL / ORDINARY HIGH WATER
- CALCULATED SCOUR PRISM



PROJECT IDENTIFICATION:

**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:

**INFORMATION
REMOVED**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-53-01**

SUBMITTAL #: **100**

DRAWING BY: **SMC**

CHECKED BY: **WEC**

DATE: **08/01/2017**

SHEET TITLE:

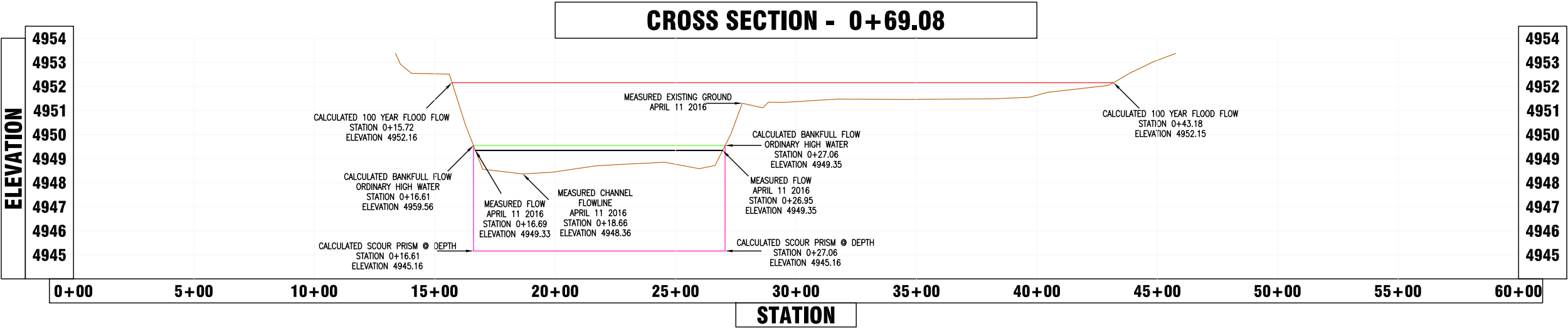
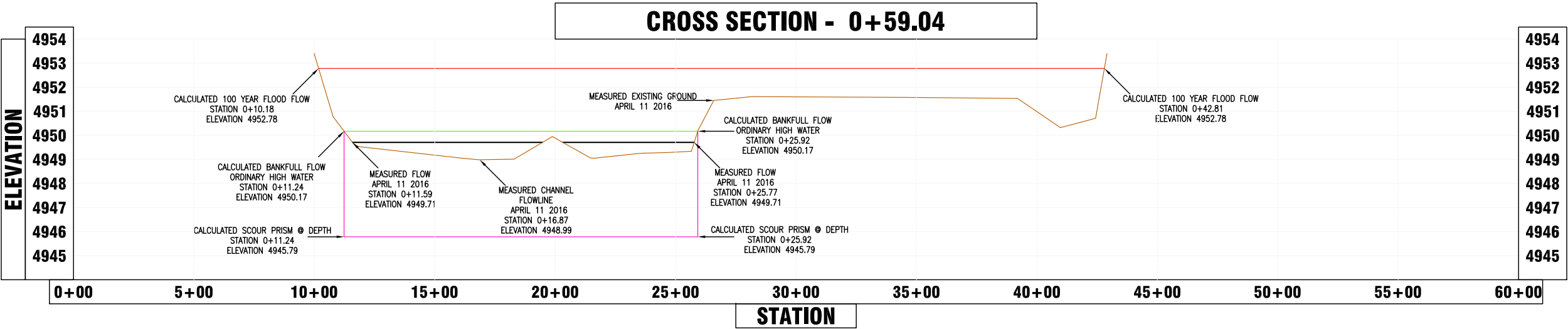
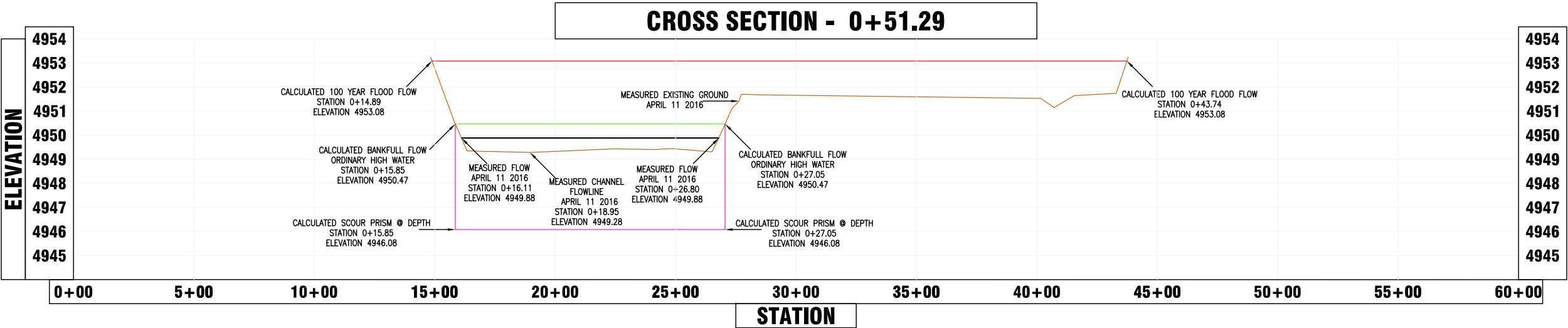
**DETAIL SHEET
CROSS SECTIONS**

SHEET IDENTIFIER:

CS 01

BINDING ORDER **04**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- WATER SURFACE -
HYDRAULIC GRADELINE
- EXISTING GROUND
- CALCULATED 100 YEAR FLOOD FLOW
- CALCULATED BANKFULL / ORDINARY
HIGH WATER
- CALCULATED SCOUR PRISM

PREPARER:

EQUINOX
ENGINEERING



PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:

**INFORMATION
REMOVED**

MARK	DATE	DESCRIPTION

PROJECT #: **UT-53-01**
SUBMITTAL #: **100**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/01/2017**

SHEET TITLE:

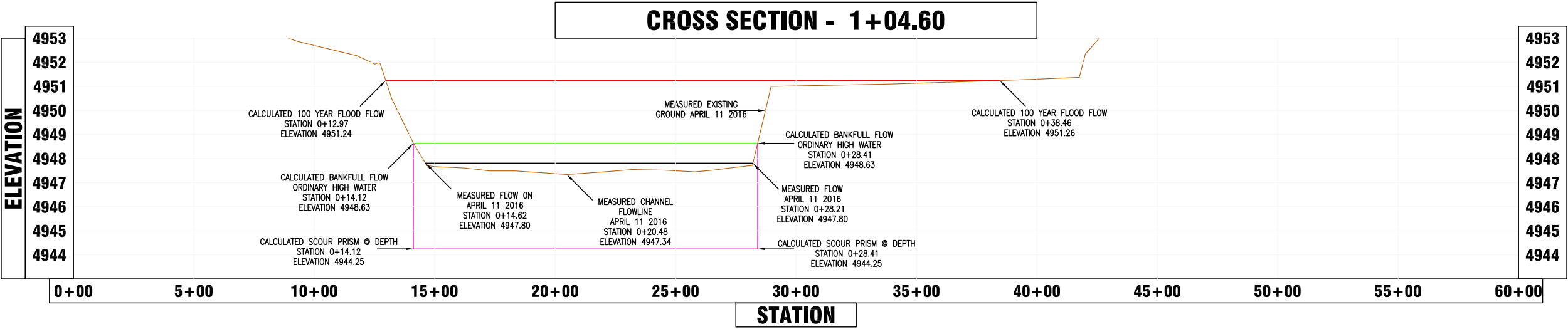
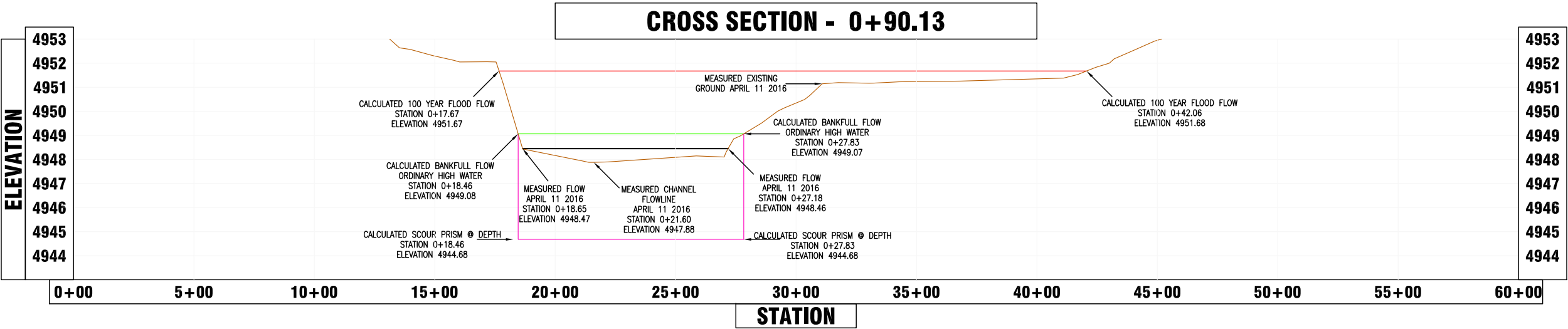
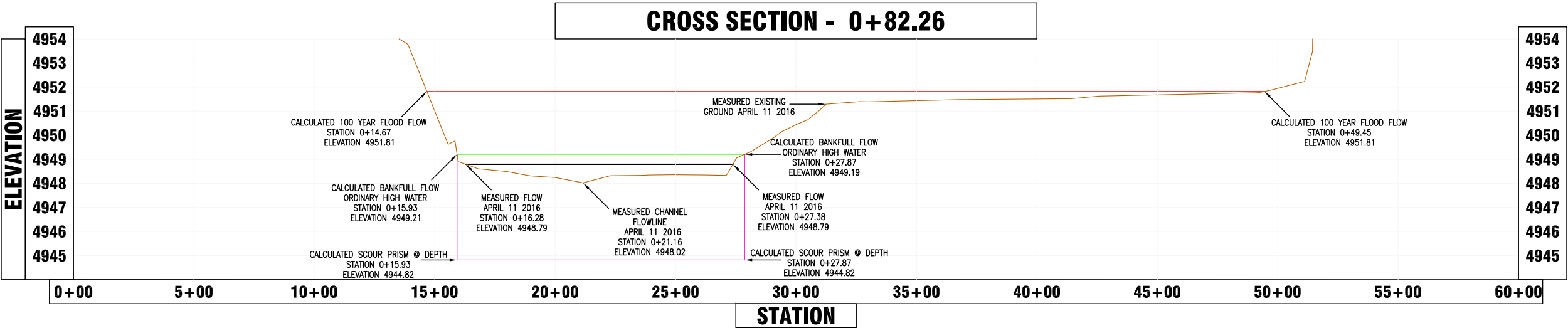
**DETAIL SHEET
CROSS SECTIONS**

SHEET IDENTIFIER:

CS 02

BINDING
ORDER **05**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- WATER SURFACE - HYDRAULIC GRADELINE
- EXISTING GROUND
- CALCULATED 100 YEAR FLOOD FLOW
- CALCULATED BANKFULL / ORDINARY HIGH WATER
- CALCULATED SCOUR PRISM

PREPARED BY:

EQUINOX
ENGINEERING



PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:

**INFORMATION
REMOVED**

MARK DATE DESCRIPTION

PROJECT #: **UT-53-01**
SUBMITTAL #: **100**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/01/2017**

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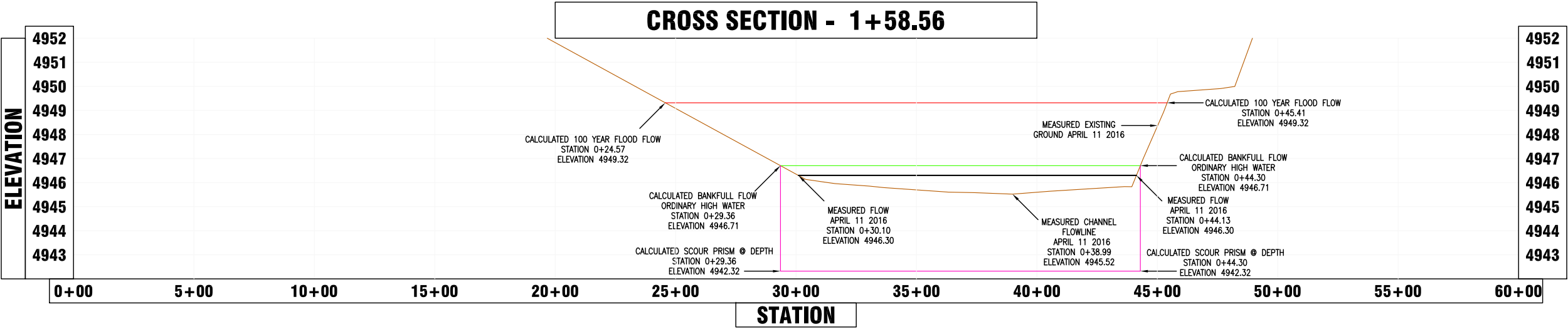
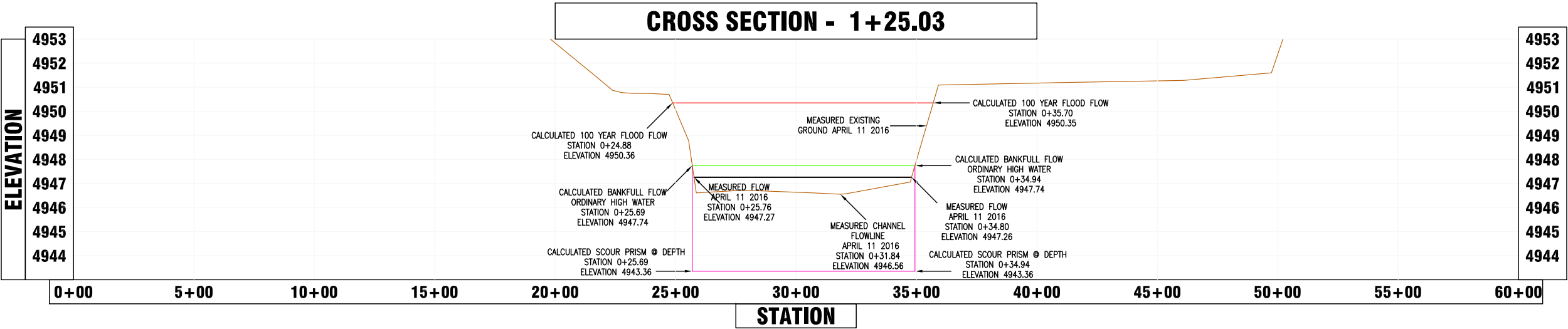
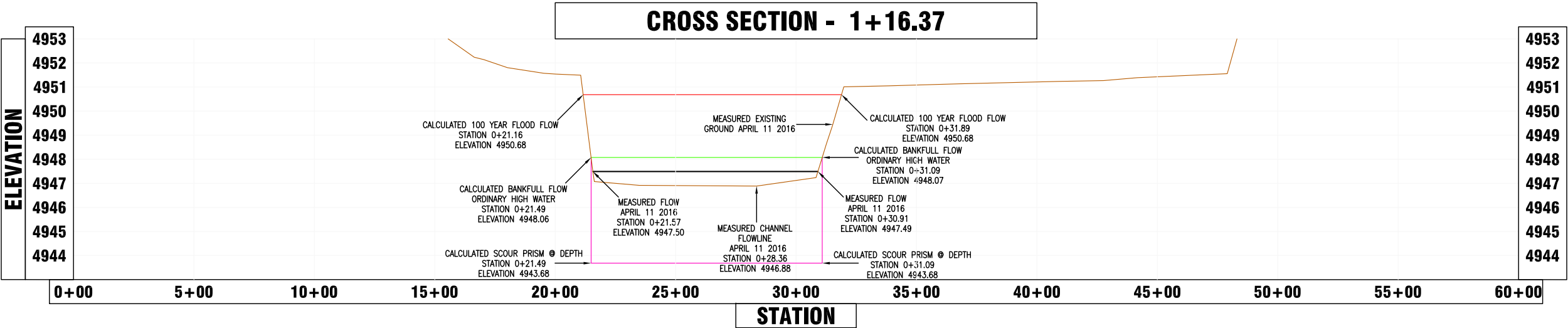
**DETAIL SHEET
CROSS SECTIONS**

SHEET IDENTIFIER:

CS 03

BINDING
ORDER **06**

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



LEGEND

- WATER SURFACE - HYDRAULIC GRADELINE
- EXISTING GROUND
- CALCULATED 100 YEAR FLOOD FLOW
- CALCULATED BANKFULL / ORDINARY HIGH WATER
- CALCULATED SCOUR PRISM

PREPARER:

EQUINOX
ENGINEERING



PROFESSIONAL SEAL:



PROJECT IDENTIFICATION:

**NAISBITT
PROPERTY
MILLCREEK**

PROJECT OWNER:

**INFORMATION
REMOVED**

MARK DATE DESCRIPTION

PROJECT #: **UT-53-01**
SUBMITTAL #: **100**
DRAWING BY: **SMC**
CHECKED BY: **WEC**
DATE: **08/01/2017**

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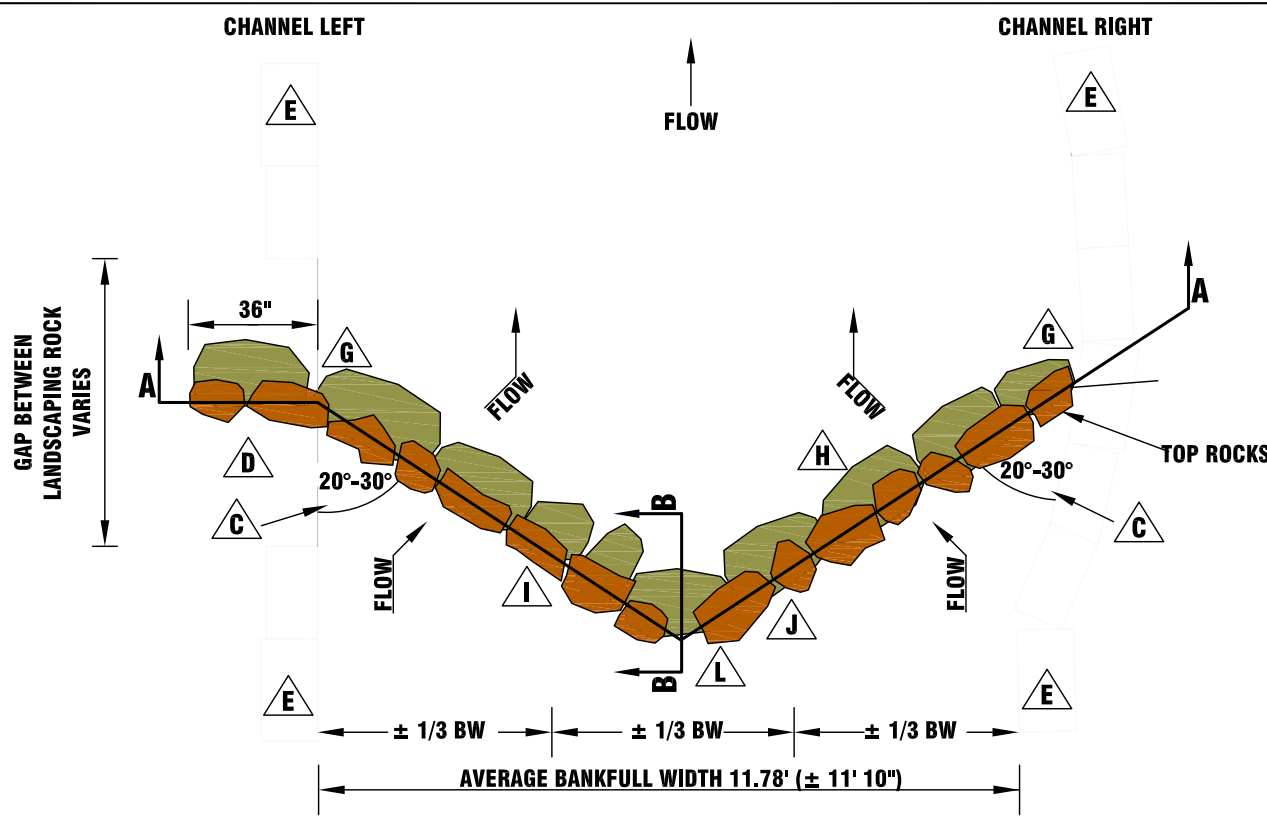
**DETAIL SHEET
CROSS SECTIONS**

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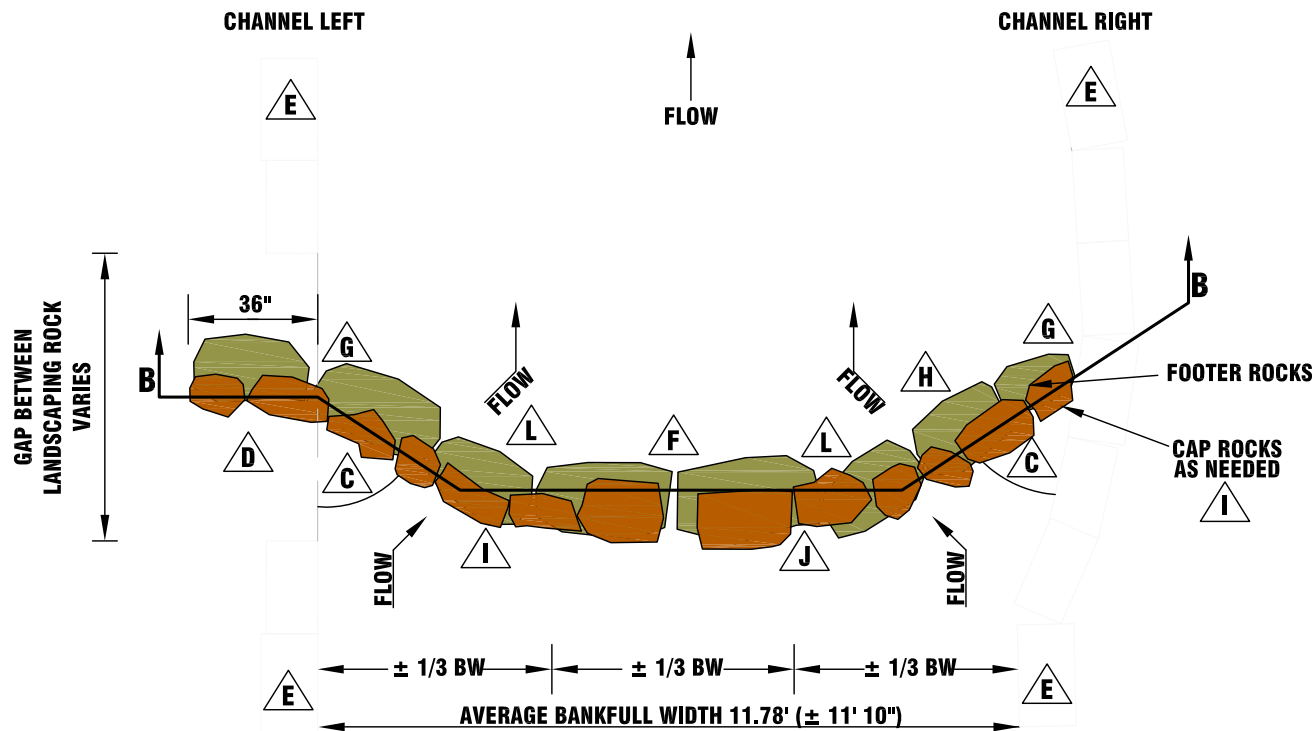
CS 04

BINDING
ORDER **07**

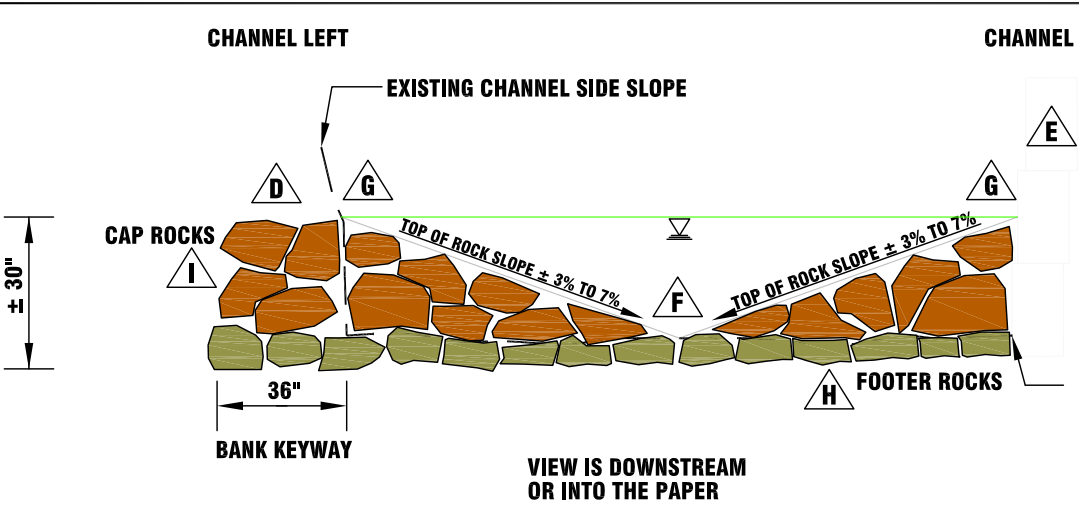
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.



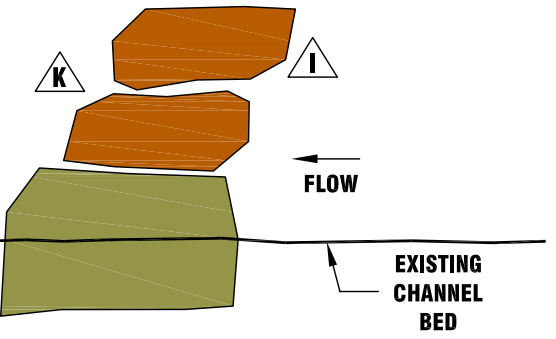
A 1 V WEIR DROP STRUCTURE WEIRS 2 - 5 PLAN VIEW
NOT TO SCALE



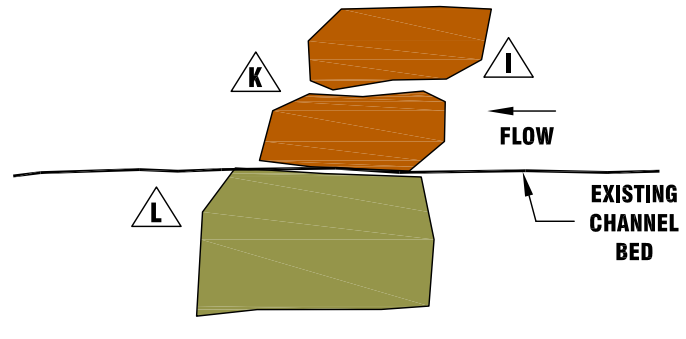
B 1 V WEIR DROP STRUCTURE WEIR 1 ONLY PLAN VIEW
NOT TO SCALE



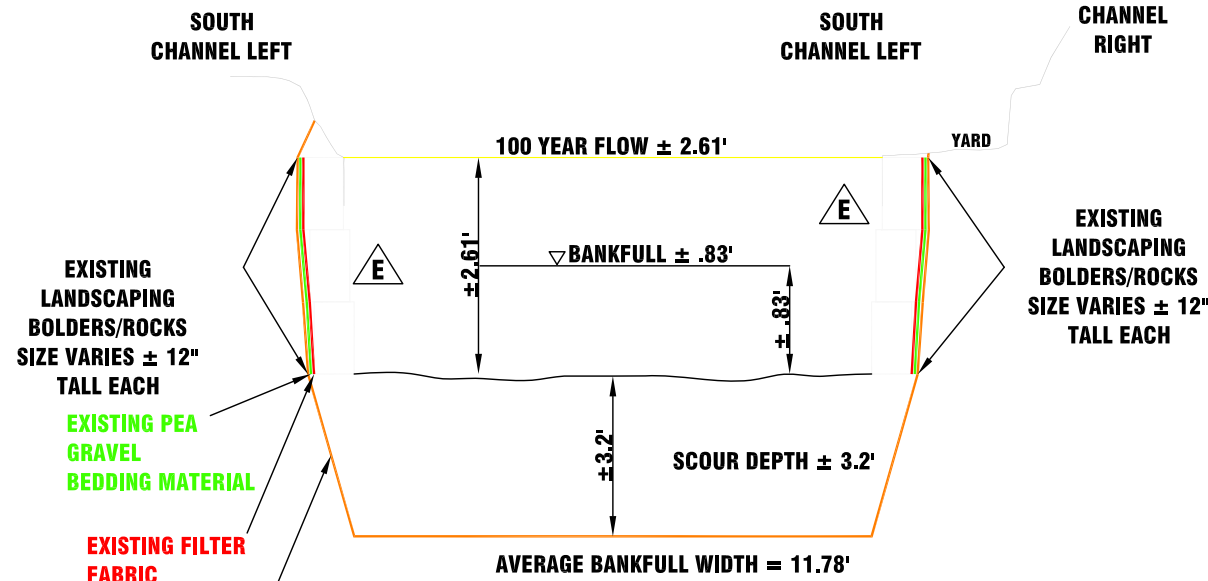
A 2 V WEIR DROP STRUCTURE/SECTION A/A ALL WEIRS - ELEVATION VIEW
NOT TO SCALE



A 3 V WEIR DROP STRUCTURE/SECTION A/A ALL WEIRS - SIDE ELEVATION VIEW



A 4 V WEIR DROP STRUCTURE/SECTION B/B ALL WEIRS - SIDE ELEVATION VIEW





D 1 TYPICAL CROSS SECTION
NOT TO SCALE

LEGEND

- CALCULATED BANKFULL / ORDINARY HIGH WATER
- C** ANGEL BETWEEN EXISTING CHANNEL BANK (ROCK OR EARTH) SHALL BE BETWEEN 20°-30°
- D** LEFT BANK KEY WAY - KEY WAY SHALL EXTEND HORIZONTALLY INTO THE BANK A MINIMUM OF 36" FROM THE EXISTING BANK PROFILE
- E** EXISTING LANDSCAPING ROCK - PRESERVE AND PROTECT. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE OR SIGNIFICANT MOVEMENT TO THE EXISTING LANDSCAPING ROCKS OR STONEMWORK
- F** APEX OF THE WEIR SHALL BE AT THE EXISTING CHANNEL FLOWLINE. FOOTER ROCKS AND CAP ROCKS SHALL BE PLACED TO ALLOW THE APEX TO BE AT THE EXISTING FLOWLINE WITH A ± 6" CRENEL OPENING AT THE APEX
- G** TOP OF ROCK ELEVATION VARIES - THE ELEVATION SHALL BE SITE SPECIFIC AND BASED ON A STARTING ELEVATION AT THE APEX OF THE WEIR AT THE EXISTING CHANNEL FLOW LINE + A TOP OF ROCK SLOPE OF 3% TO 7%. THE ROCK TOP AT THE BANK INTERFACE SHALL BE AT OR SLIGHTLY ABOVE THE RESPECTIVE BANKFULL ELEVATION FOR THE GIVEN LOCATION
- H** FOOTER ROCKS - ROCKS SHALL BE 24" DIAMETER OR LARGER AS MEASURED ALONG THE SHORTER AXIS. FOOTER ROCKS OTHER THAN THE LOW FLOW NOTCH CRENEL MUST BE IMBEDDED INTO THE EXISTING GROUND ± 50% OF THE FOOTER ROCKS DIAMETER EXISTING SURFACE ROCKS THAT PROHIBIT THE BASE OF THE FOOTER ROCKS FROM SETTING SNUGLY ON THE IN-SITU GRADE MUST BE REMOVED FROM THE FOOTER ROCK FOOTPRINT LOCATION. FOOTER ROCKS SHALL BE IMBEDDED AS NEEDED TO ALLOW FOR THE DESIGN GRADE TO BE ACHIEVED.
- I** CAP ROCKS - IF NEEDED ABOVE THE FOOTER ROCKS - SHALL BE SIZED AND SHAPED SO AS TO PROVIDE AN IMMOVABLE IMPEDIMENT TO THE FLOW OF WATER. CAP ROCKS SHALL BE 24" DIAMETER OR LARGER AS MEASURED ALONG THE SHORTER AXIS. CAP ROCKS SHALL BE WIDER HORIZONTALLY THAN VERTICALLY TO ALLOW FOR A SOLID BASE CONNECTION WHEN STACKING AND A LOW PROFILE TO PROVIDE THE TOP OF ROCK SLOPE 3% TO 7% FROM THE APEX TO THE CHANNEL BANK TIE IN AS DIRECTED
- J** CRENELS - CONTRACTOR TO INSTALL CAP ROCKS TO ALLOW FOR IRREGULAR SHAPED HORIZONTAL GAPS NO LARGER THAN 3 INCHES WIDE - TYPICAL EXCEPTION IS THE APEX WHERE A ± 6" GAP SHALL BE INSTALLED
- K** CAP ROCKS SHALL BE INSTALLED TO ALLOW FOR AN UPWARD SLOPE ALONG THE DOWN CHANNEL FACE MOVING UP CHANNEL. THE ANGLE OF THE SLOPE IS VARIABLE AND SHALL BE BASED ON OFFSETTING THE CAP ROCKS NO MORE THAN 10% OF THE LENGTH OF THE LONGITUDINAL AXIS OF THE RESPECTIVE ROCK AND AS ALLOWS FOR THE CAP ROCK TO BE INSTALLED SNUG AND SECURE TO THE ROCK IMMEDIATELY BELOW
- L** CENTRAL FOOTER ROCKS (BELOW THE CRENEL) MUST BE IMBEDDED TO ALLOW FOR THE BOTTOM OF THE CRENEL TO BE AT THE EXISTING FLOWLINE WHICH SHALL BE THE TOP OF THE FOOTER ROCK.

PREPARED BY:
EQUINOX ENGINEERING



PROFESSIONAL SEAL:


PROJECT IDENTIFICATION:
NAISBITT PROPERTY MILLCREEK

PROJECT OWNER:
INFORMATION REMOVED

MARK	DATE	DESCRIPTION

PROJECT #:
SUBMITTAL #:
DRAWING BY:
CHECKED BY:
DATE:

UT-53-01

100

SMC

WEC

08/01/2017

SHEET TITLE:
DETAIL SHEET

SHEET IDENTIFIER:
DT 01
BINDING ORDER **08**

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