Project#
TIP# B-5415
Let Date
WBS#

PREDESIGN-PRESURVEY REPORT

Bridge# 800088
County Rutherford Division: 13
Road# SR 1793 (McKinney Mill Rd)
Stream W. Fork Sandy Run Creek

Type Of Request: POC Force Account TIP NCMA
Date 12/10/15 Name SNM Assigned To PFF/MTS
Checked By WHS 12/15/15
Prior Survey Date NONE (attach copy of prior survey) BRN. BK.: 2-62 CO. FILE 2/1962
Study By Scour Section None
Flood Zone AE Detail Study Limited Date 7/2/08 Panel# 1589
B.M. Info N/A.
Quad Map N/A Drainage Area 5.3 SQ. mi From StreamStats
Q25 1500 cfs Q50 1800 cfs Q100 2100 cfs Method USGS Rural Reg. 69n.

COORDS: Lat.: 35.34856 , Long.: -81.72677

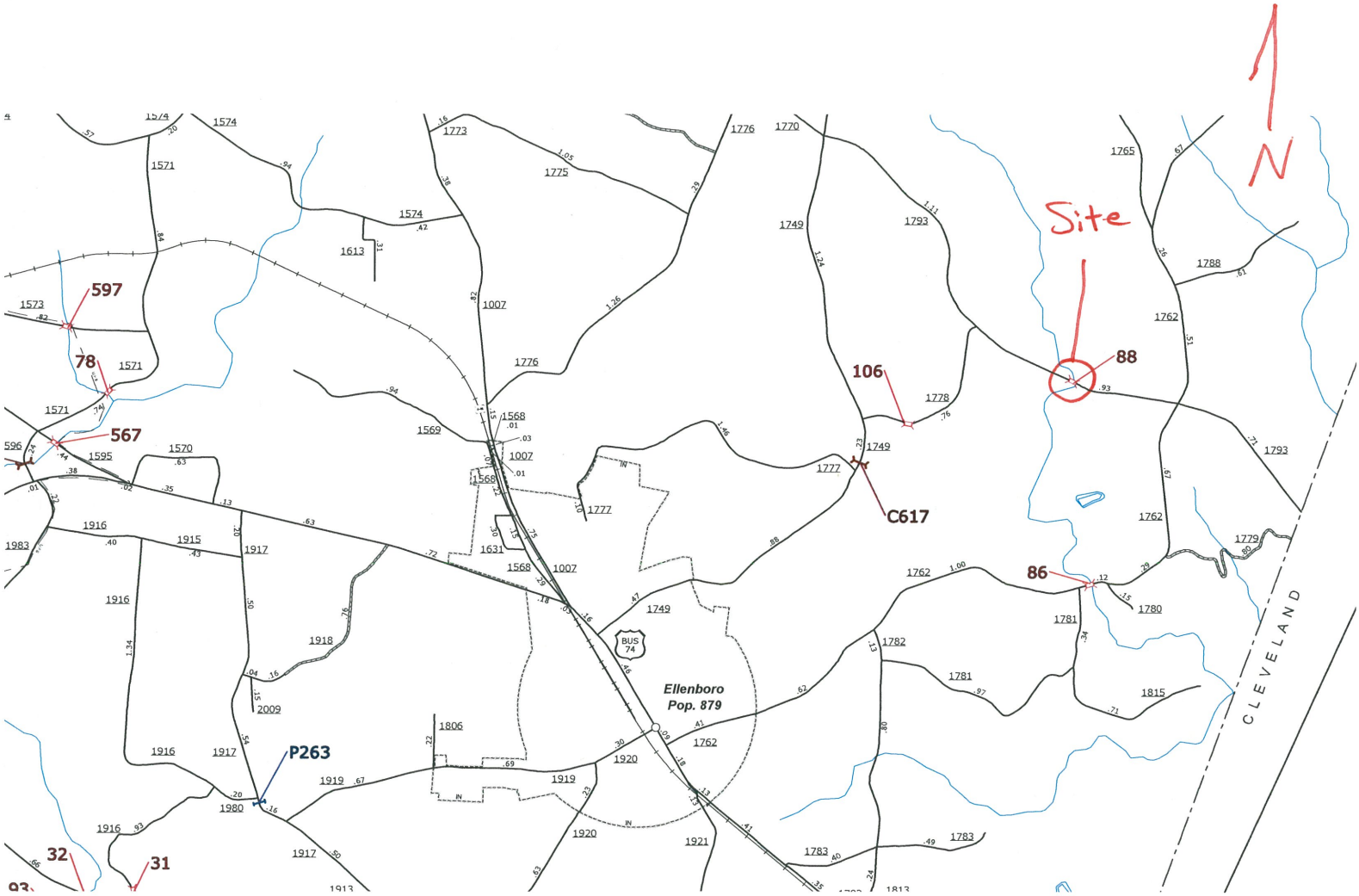
EXISTING BRIDGE INFORMATION

Location 0.5 mi. W. JCT. SR 1762
Average Daily Traffic 260 (2012) 6% TTK
Length 91' Bed-To Crown 16' Water Depth 1'
Type Structure Timber floor on I-beams (BMD-8 8A-24)
Type Spans 1@30'-6; 1@29'-6, 1@30'-6
Upstream Structure C 800616 - Double 11'x12' RCBC; 62' along c/L culvert
Location 0.2 mi. N. JCT SR 1767
Bed-To Crown 19' H2o: 1' Prior Survey NONE
Downstream Structure 800086 - L=106' Timber floor on I-beams
Location 0.05 mi. E JCT. SR 1781 Span: 1@35'-7, 1@34'-6; 1@35'-7
Bed-To Crown 26' H2o: 2' Prior Survey NONE
SCS Watershed N/A

ENVIRONMENTAL TVA: NO

Trout Stream NO Anadromous Fish NO Primary Nursery Area NO
High Quality Waters NO Nutrient Sensitive Waters NO
Near Water Supply Intake NO CAMA County NO
Stream Classification C
DENR River Basin Info. Broad # 9-46-2

800088


N
Site
88
106
C617
86
597
78
567
P263
32
31
Ellenboro
Pop. 879
BUS 74
CLEVELAND

8000 88

on a tool on the toolbar. If the icon remains
sed, click on the map to perform the desired

NC Map Layers

- [+] [x] Streamgages
- [+] [x] Area of Limited Functionality
- [+] [x] North Carolina
- [+] [x] Stream Grid
- [+] [x] Study Area Bndys

[−] Base Layers

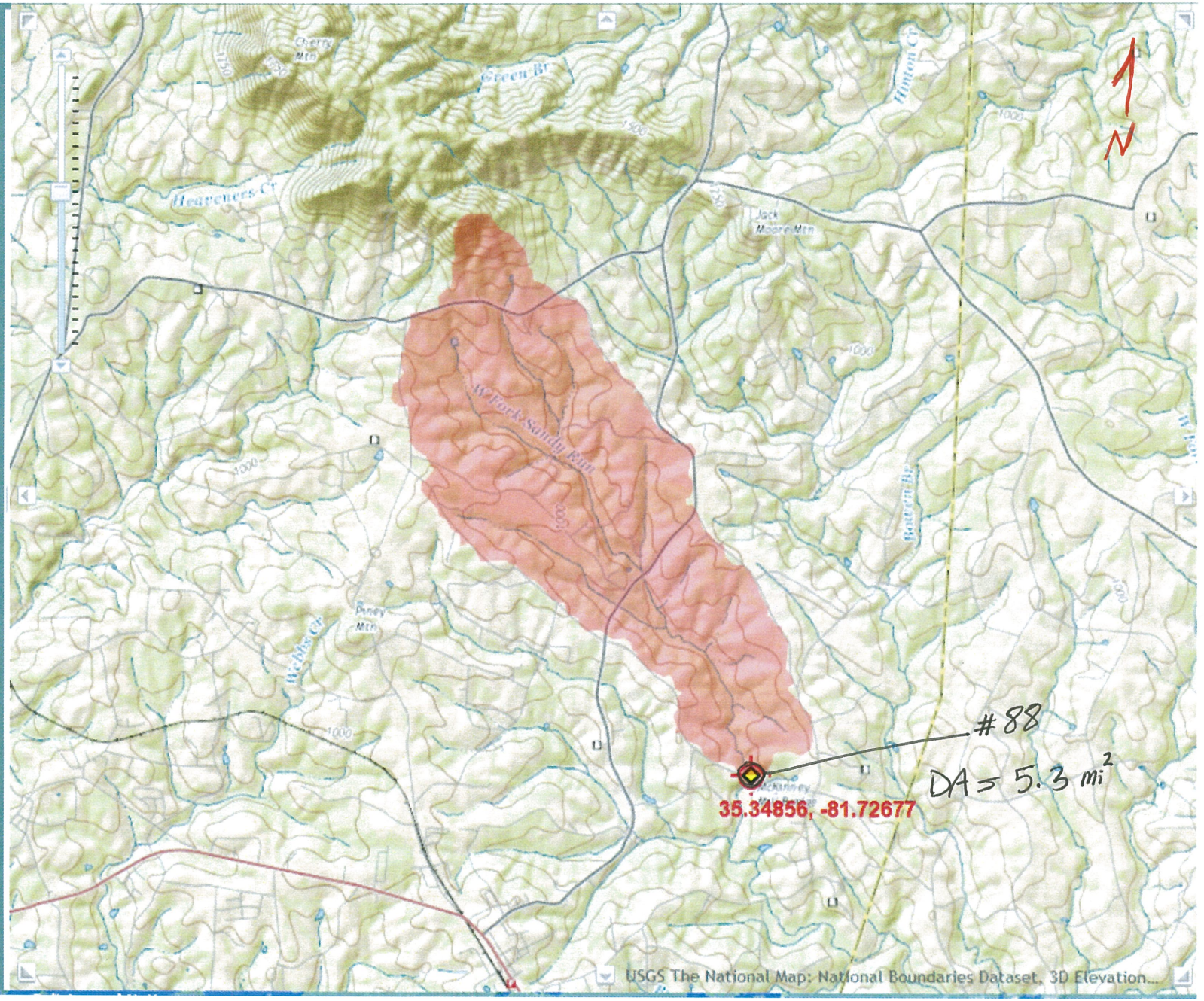
- ( ) Imagery
- ( ) Street Map
- ( ) World Topo
- ( ) USA Topo
- ( ) Canadian Topo
- (•) TNM Topo

0 0.5 1mi

Scale: 1 : 72,224

Latitude: 35.38014
Longitude: -81.82095 SS





800088

StreamStats Version 3 Beta

Basin Characteristics Ungaged Site Report

Date: Thurs Dec 10, 2015 7:43:49 AM GMT-5
Study Area: North Carolina
NAD 1983 Latitude: 35.3486 (35 20 55)
NAD 1983 Longitude: -81.7267 (-81 43 36)

Label	Value	Units	Definition
DRNAREA	5.3	square miles	Area that drains to a point on a stream

Accessibility **FOIA** **Privacy** **Policies and Notices**
U.S. Department of the Interior | U.S. Geological Survey
URL: http://streamstatsags.cr.usgs.gov/v3_beta/BCreport.htm
Page Contact Information: StreamStats Help
Page Last Modified: 11/13/2015 12:55:34 (Web1)

Streamstats Status News

USA.gov

800088

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: TEMPORARY REPAIRS; PRIORITY MAINTENANCE

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: RUTHERFORD STRUCTURE NUMBER: 800088 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1793 MILE POST:

LOCATION: 0.5 MI.W.JCT.SR1762 0.5 MILE WEST OF JUNCTION WITH SR 1762

FEATURE INTERSECTED: BR.OF SANDY RUN CREEK

LATITUDE: 35° 20' 54.79" LONGITUDE: 81° 43' 36.32"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS (BMD-8 8A-24)

SUBSTRUCTURE: E.BTS:TIM CAPS/TIM.PILES:BTS:TIM.CAPS/TIM.POST&CONC.SILLS

SPANS: 1 @ 30'-6" ; 1 @ 29'-6"; 1 @ 30'-6"
1 @ 30"-6 ; 1 @ 29"-6; 1 @ 30"-6

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 04/17/2015

POSTED SV: 17 POSTED TTST: 21

OTHER SIGNS PRESENT: (4) DELINEATORS



LOOKING EAST

Sign noticed issued for		Number Required
NO	WEIGHT LIMIT	0
NO	DELINEATORS	0
NO	NARROW BRIDGE	0
NO	ONE LANE BRIDGE	0
NO	LOW CLEARANCE	0

INSPECTED BY	SIGNATURE	ASSISTED BY
HEATHER M. SWANSON	Heather M Swanson	T. GLENN ZEBLO

800088

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Update Date: 08/24/2015

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
RUTHERFORD	13	1	800088	91 FEET

ROUTE CARRIED : SR1793

FEATURE INTERSECTED : WEST FORK SANDY RUN CREEK

LOCATED : 0.5 MI.W.JCT.SR1762

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :	
09	NFA	NFA	260	2012	LT 253	RT 253

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1962	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
	BMU	5.8951	TAN	59	ON 2	UNDER 0

NAVIGATION :					HT. CRN. TO BED :		WATER DEPTH :	
VC	0	FT	HC	0	FT	16 FT	1	FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS (BMD-8 8A-24)

SUBSTRUCTURE : E.BTS:TIM CAPS/TIM.PILES:BTS:TIM.CAPS/TIM.POST&CONC.SILLS

SPANS : 1 @ 30'-6 ; 1 @ 29'-6; 1 @ 30'-6

BEAMS OR GIRDERS : 10 LINES 14 I-BEAMS & 2 LINES 16 I-BEAMS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/3 AWS		25.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :			
24.917 FT	24.917 FT	LT	0 FT	RT	0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :					
HS-9	HS-15	Int.bmsSpB	SV	17	TTST	21	DATE	07/15/1993

SYSTEM : Secondary S.R. Route

GREEN LINE ROUTE : N

UNDER ROUTES AND CLEARANCES

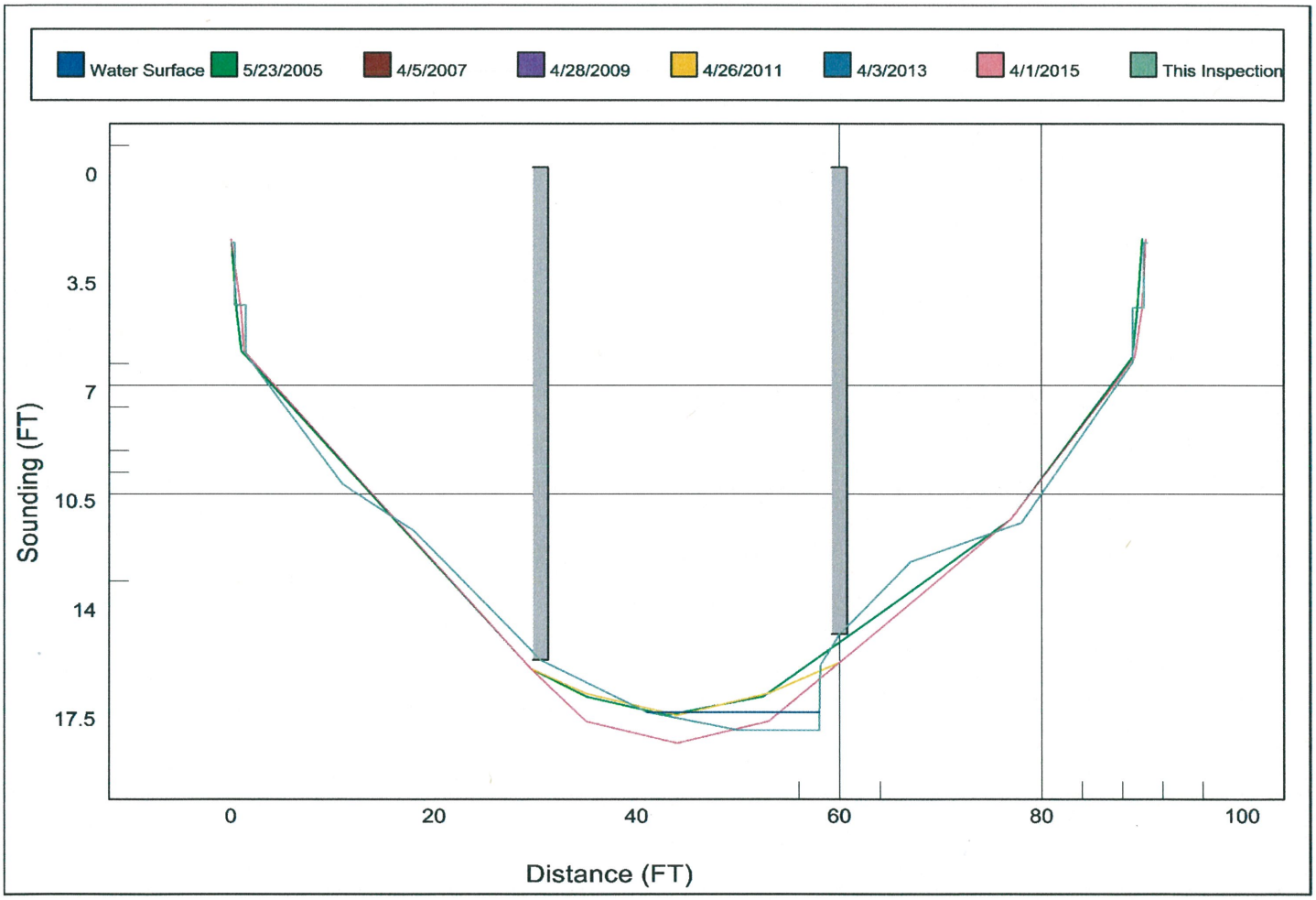
REMARKS :

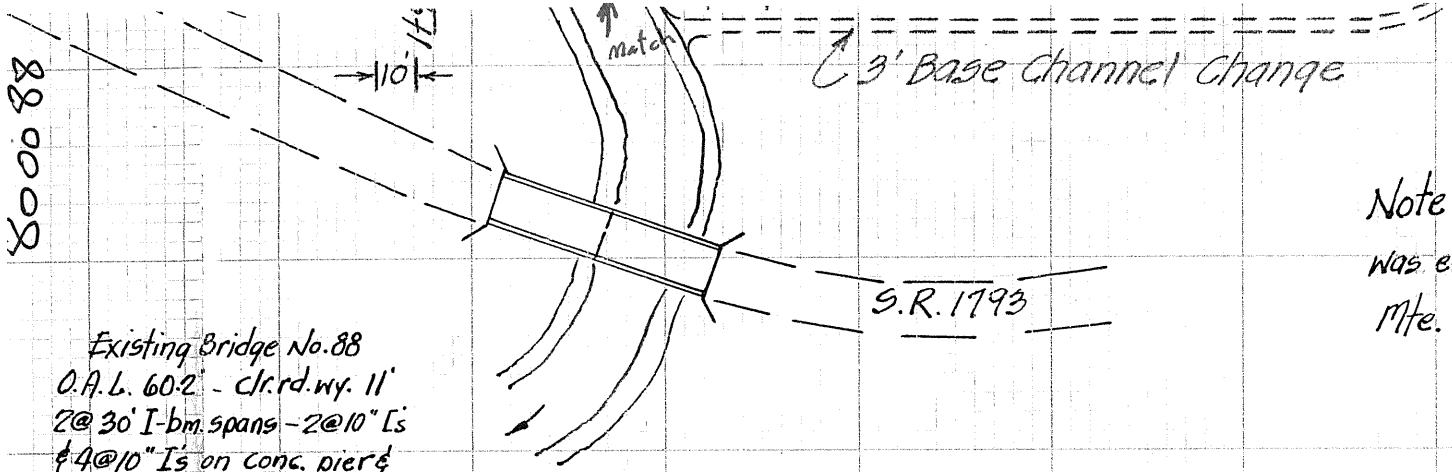
800088

Bridge: 800088 County RUTHERFORD Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





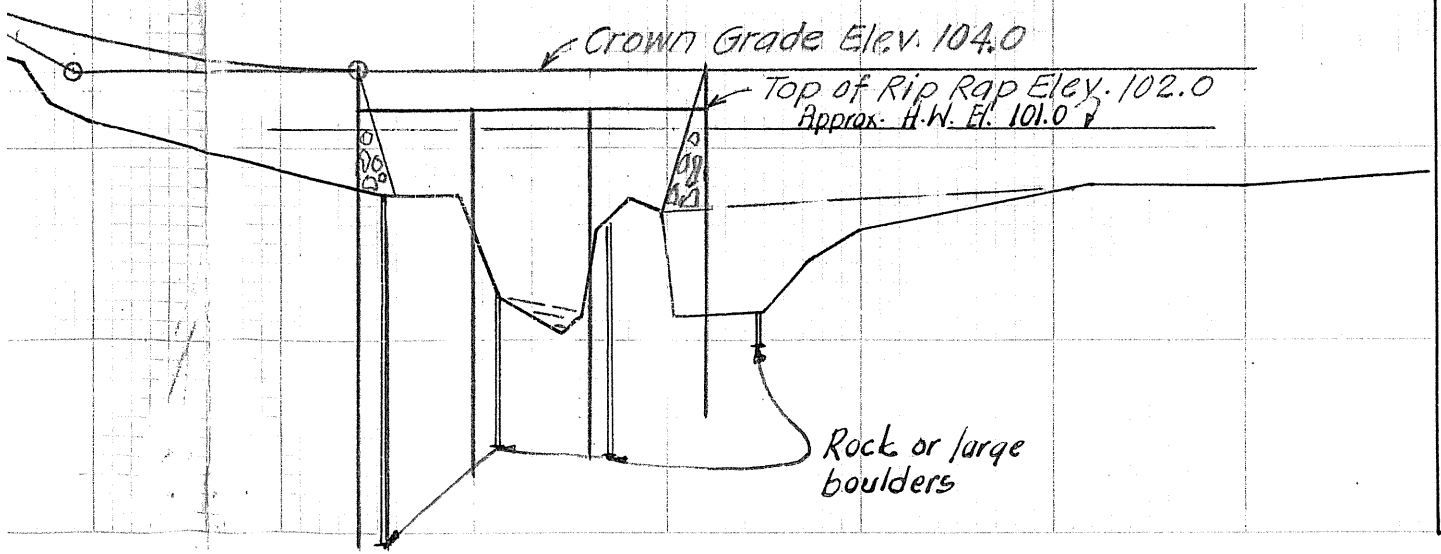
Existing Bridge No. 88
O.A.L. 60.2' - Clr. rd. wy. 11'
2@30' I-bm. spans - 2@10" I's
℄ 4@10" I's on conc. pier ℄
R.M. abuts.

Note: Loc. of Bridge Tangent was established by Mr. Edwards, Mte. Forman.

B.M.: R.R. spike in base 24" oak 50' lt. Sta. 1+48 El. = 100.00 (Assumed)

1 2 3 4

Sta. 2+15 - 3@30'
30° R.H. Skew



W.O. 6-892092
Rutherford County
Bridge No. 88
Sandy Run Creek
S.R. 1793

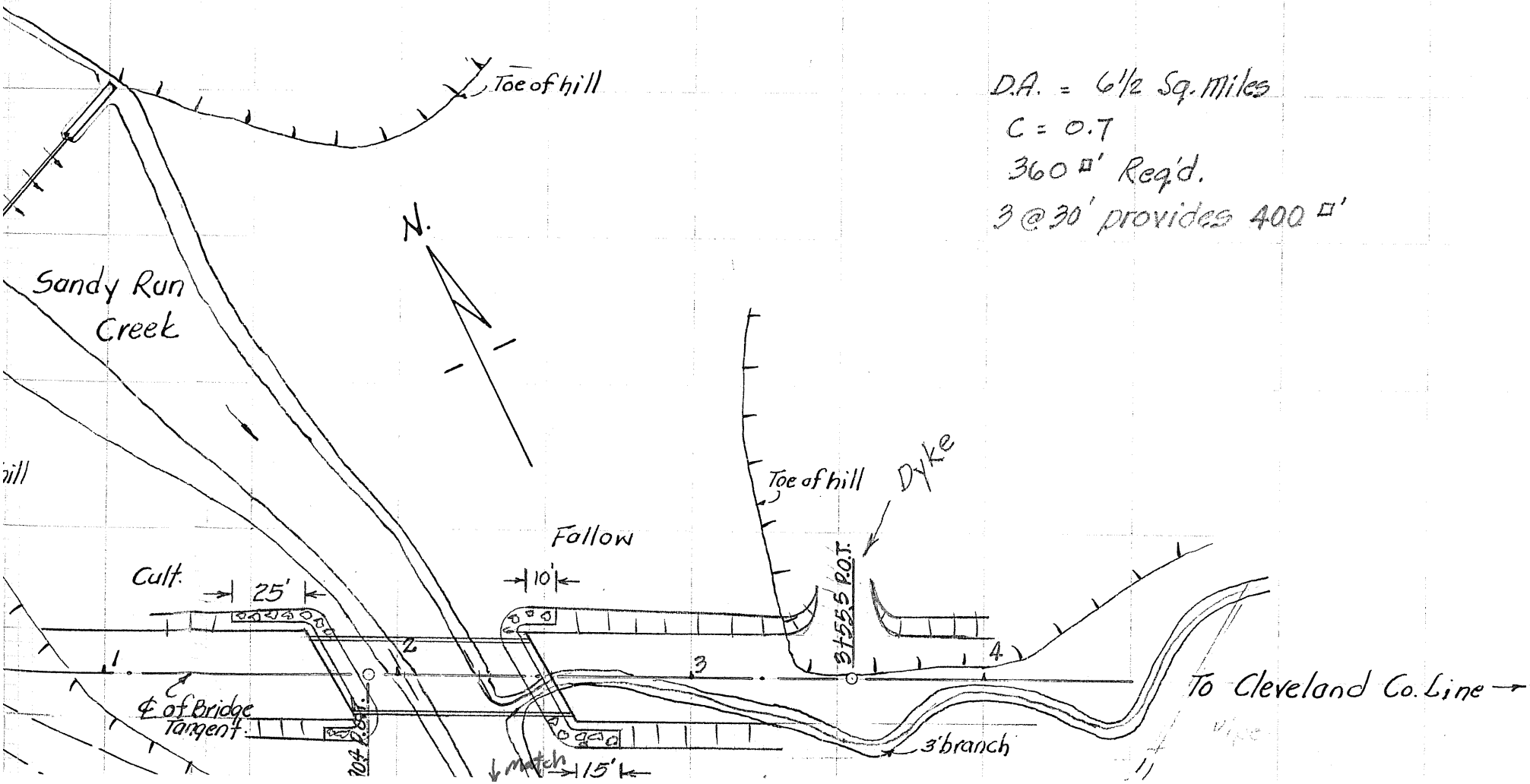
Scale ~ 1" = 10' Vert.
1" = 50' Hor.

F.M. Collins Feb. 1962

KEUFFEL & ESSER CO.
MADE IN U.S.A.

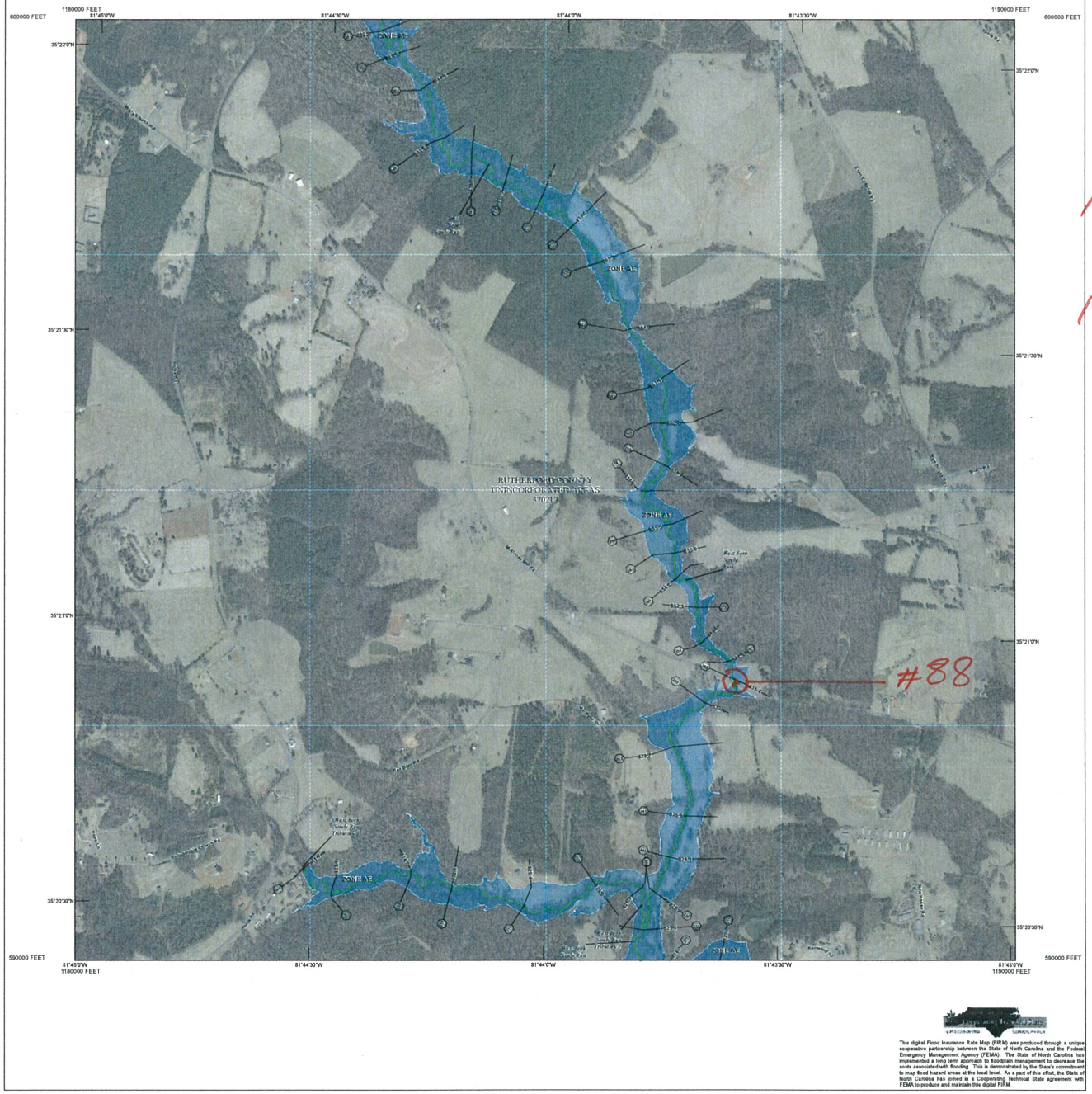
K+E STANDARD ® CROSS SECTION
10 X 10 TO THE INCH

800888



D.A. = 6½ Sq. Miles
C = 0.7
360 □' Req'd.
3 @ 30' provides 400 □'

800088



This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map flood hazard areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://FRIS.NC.GOV/FRIS

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*

OTHER AREAS
- Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Accredited or Provisionally Accredited Levee, Dike, or Floodwall
- Non-accredited Levee, Dike, or Floodwall
- BM5510 North Carolina Geodetic Survey bench mark
- BM5510 National Geodetic Survey bench mark
- BM5510 Contractor Est. NCFMP Survey bench mark
- 513 18.2 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- B Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

OTHER FEATURES
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at http://www.ncfloodmaps.com or contact the FEMA Map Service Center.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the North Carolina Floodplain Mapping Program (NCFMP). The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

ACCREDITED LEVEE NOTES TO USERS: If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

PROVISIONALLY ACCREDITED LEVEE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at http://www.fema.gov/business/nfip/index.shtm.

LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LIMWA). The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

Limit of Moderate Wave Action (LIMWA)

COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE

This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see http://www.fws.gov/habitatconservation/coastal_barrier.html, the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.

CBRS Area | Otherwise Protected Area

SCALE

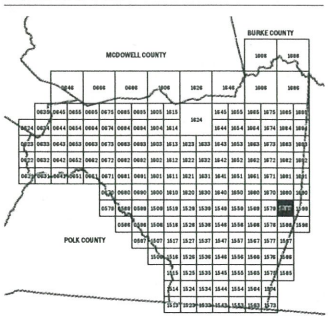
Map Projection:
North Carolina State Plane Projection Feet (Zone 3200)
Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL 1589

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
RUTHERFORD COUNTY	370217	1589	J

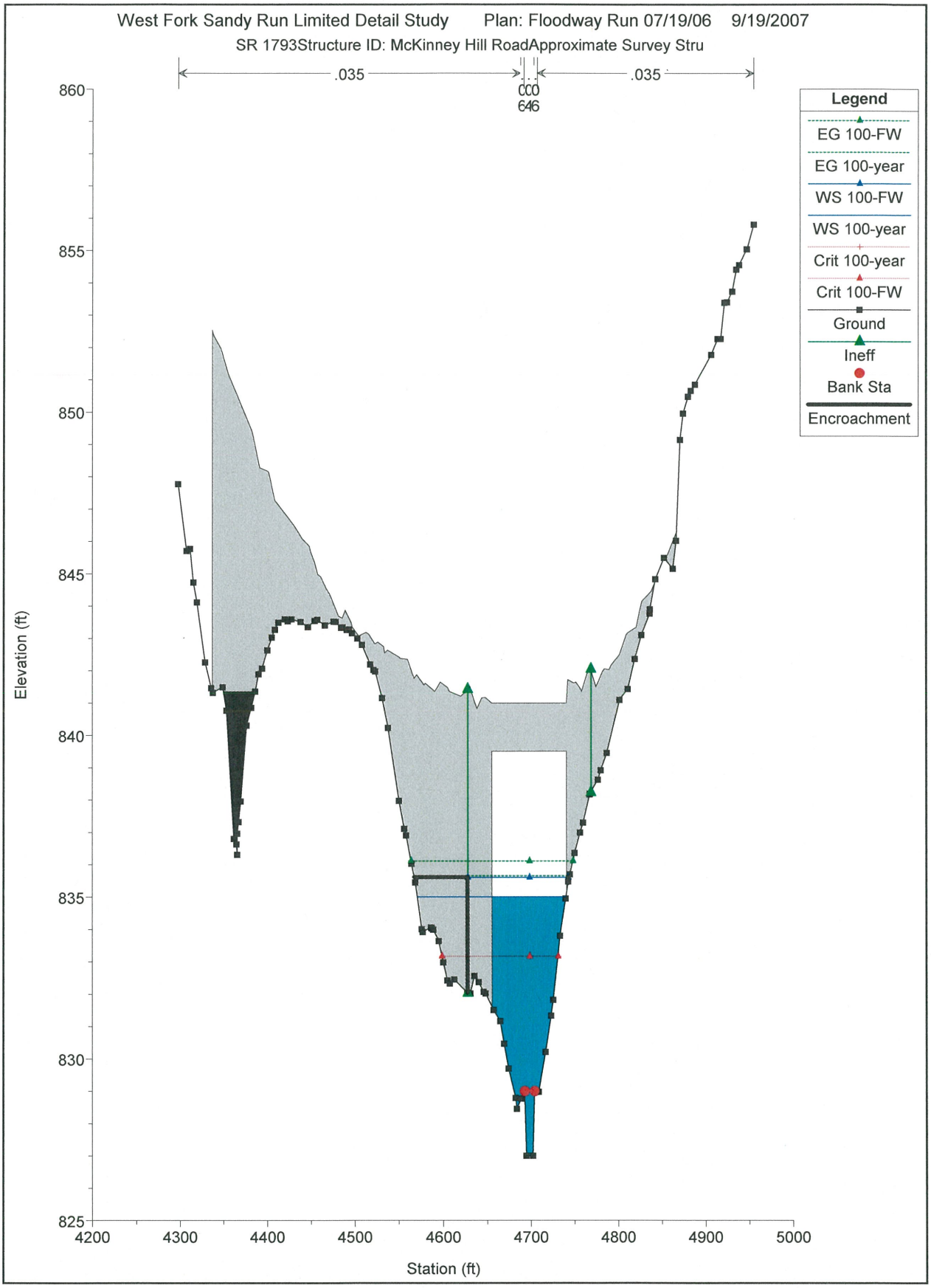
MAP NUMBER
3710158900J

MAP REVISED
7/2/2008

800088



800088


West Fork Sandy Run Limited Detail Study Plan: Floodway Run 07/19/06 9/19/2007
SR 1793Structure ID: McKinney Hill RoadApproximate Survey Stru
.035
.035
CCO
646
Legend
EG 100-FW
EG 100-year
WS 100-FW
WS 100-year
Crit 100-year
Crit 100-FW
Ground
Ineff
Bank Sta
Encroachment
Elevation (ft)
860
855
850
845
840
835
830
825
4200
4300
4400
4500
4600
4700
4800
4900
5000
Station (ft)