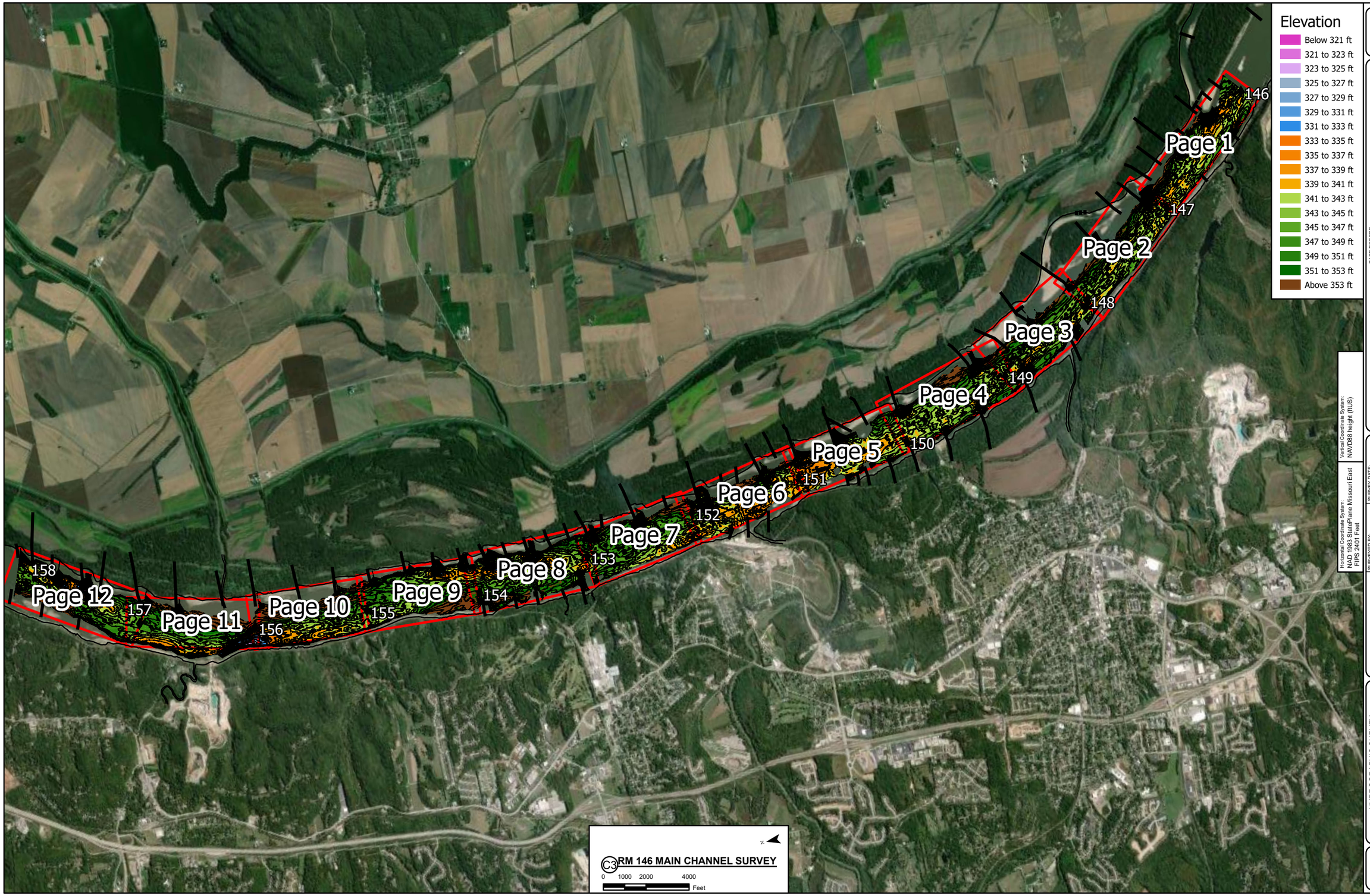


US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ST. LOUIS
	379.9
	180.0
	376.7

GAGE ZERO NGVD 29	
RIVER MILE	
LWRP 2014	
11/30/22	

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

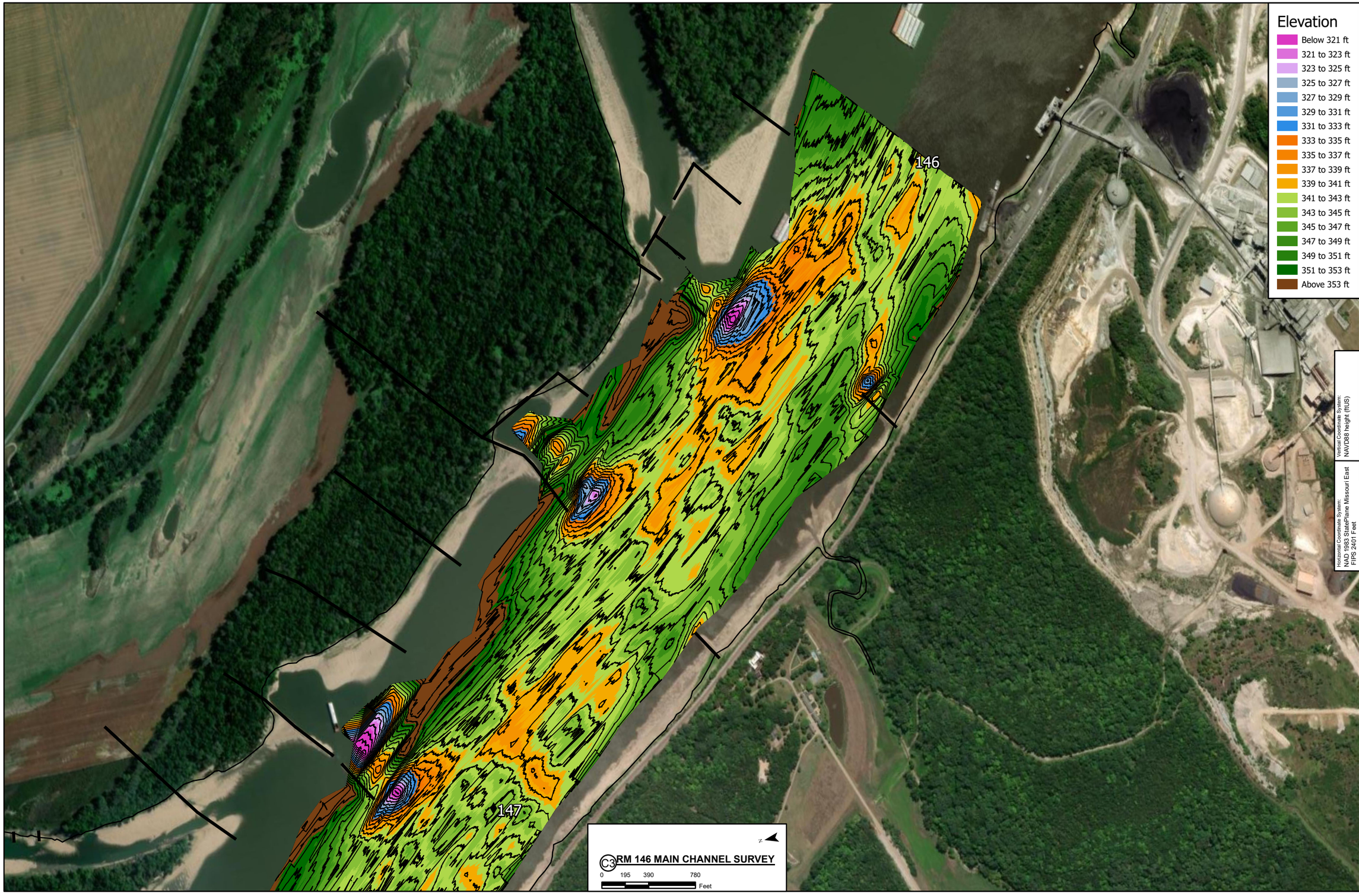
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY:	SURVEY DATE: 11/30/22
WV Swiftships II R.Stowarzezyf	RVD BY: M.DUKE
SUBMITTED BY: M.DUKE	APPROVED BY: K.SHORT
PLOT SCALE: 1:2000	PLOT DATE: 12/1/2022
SIZE: ANSI B	FILE NAME: MyProject.t31

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

ST. LOUIS	GAGE ZERO NGVD 29	RIVER MILE	LWRP 2014	11/30/22
379.9		180.0	376.7	

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

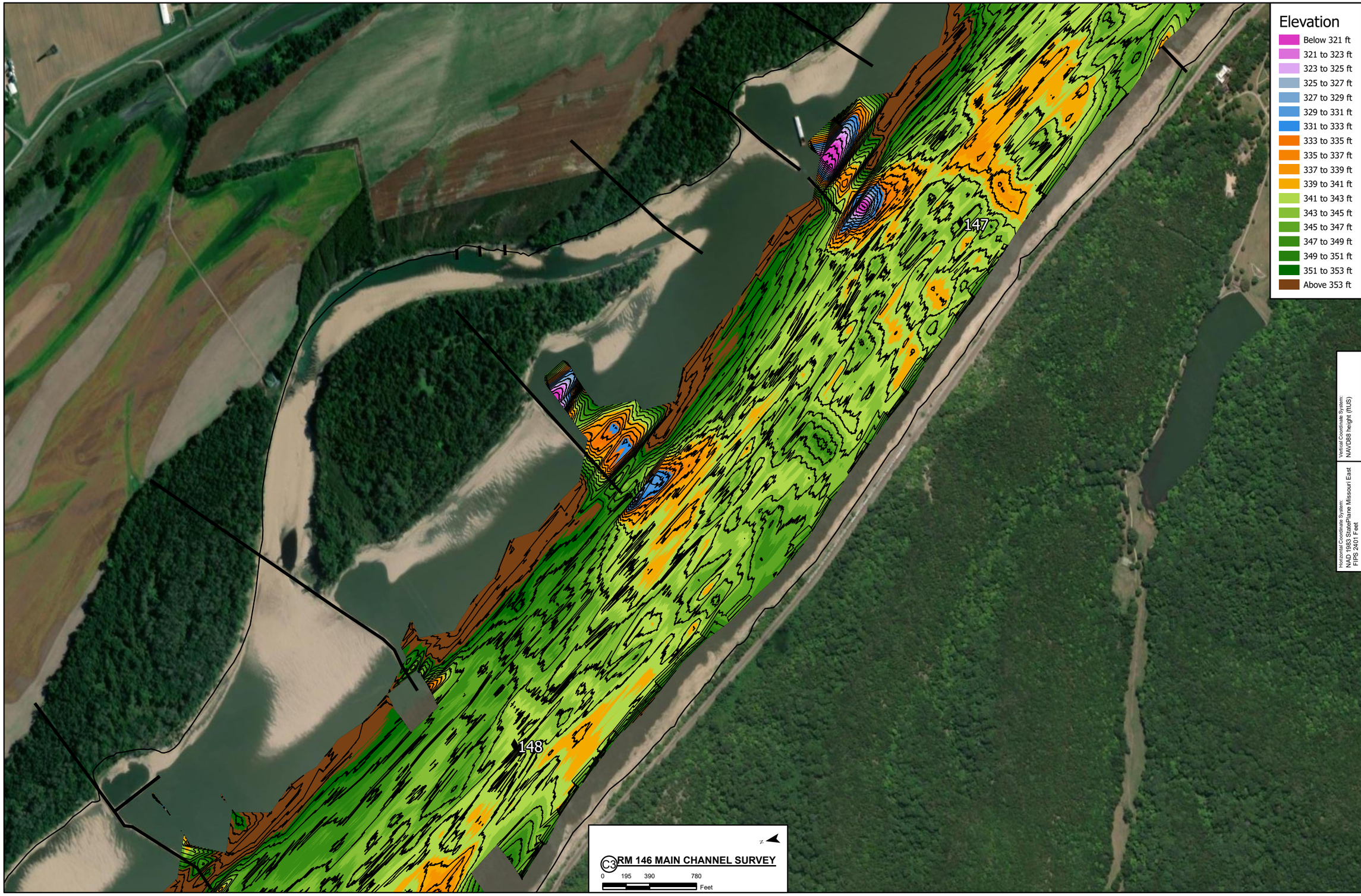
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY:	SURVEY DATE:
MV 336P;SDN1T	11/30/22
DRAWN BY:	RVD BY:
R.Schwarzkopf	M.DUKE
SUBMITTED BY:	APPROVED BY:
M.DUKE	K.SHORT
PLOT SCALE:	PLOT DATE:
1" = 200.0'	12/1/2022
SIZE:	FILE NAME:
ANSI B	MyProject131
CHK BY:	
SURVEY REQUEST ID:	

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD	ST. LOUIS
	379.9
	180.0
	376.7

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

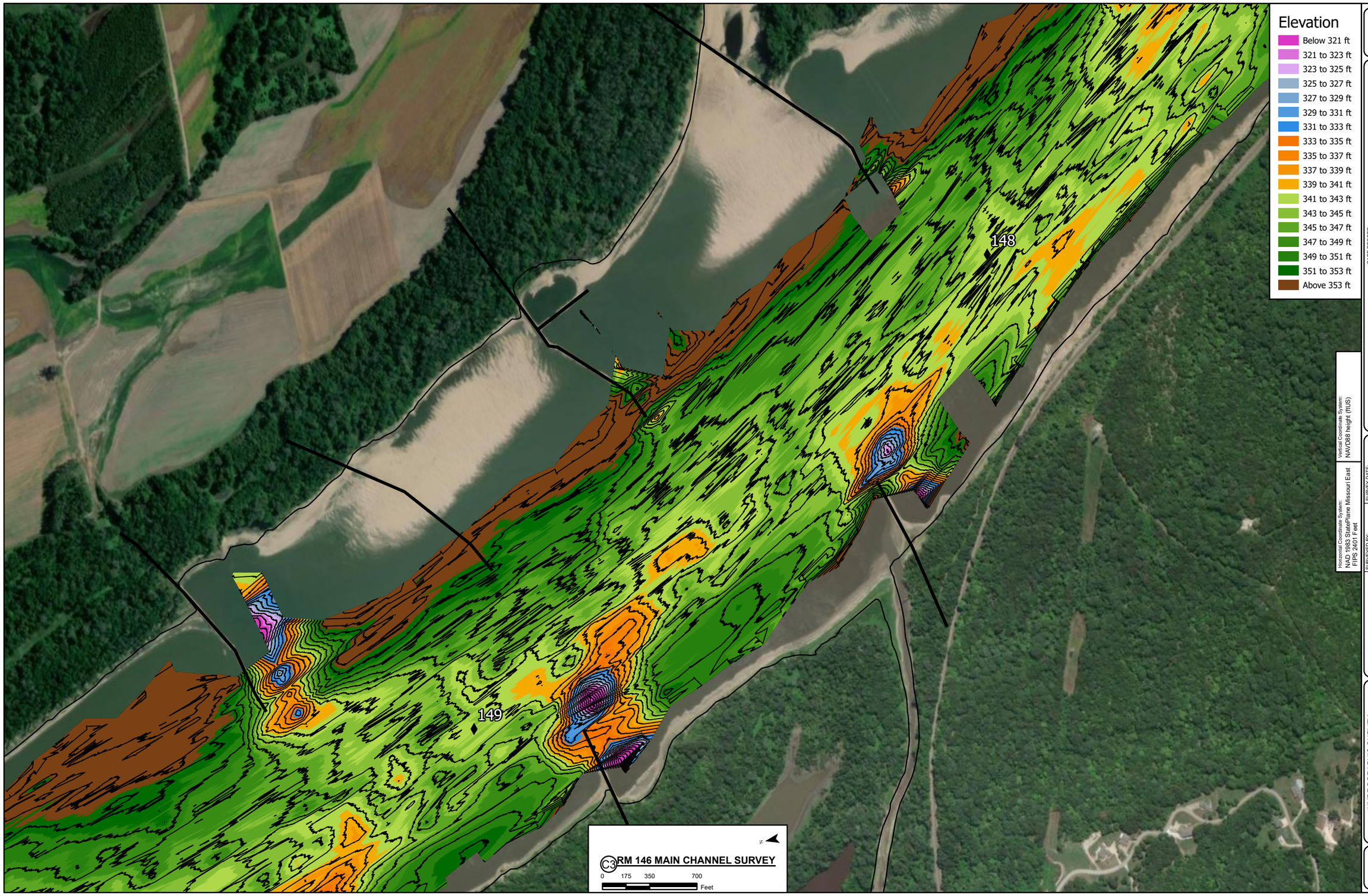
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: MV-1SMPSON11	SURVEY DATE: FY2022		
DRAWN BY: R.Schwarzkopf	R/D BY: M.DUKE	CHK BY:	
SUBMITTED BY: M.DUKE		APPROVED BY: K.SHORT	
PLOT SCALE: 1:1,000	PLOT DATE: 11/30/22	SURVEY REQUEST ID:	
SIZE: ANSI B	FILE NAME: MyProject131		

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

ST. LOUIS	GAGE ZERO NGVD 29	RIVER MILE	LWRP 2014	11/30/22
379.9		180.0	376.7	

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

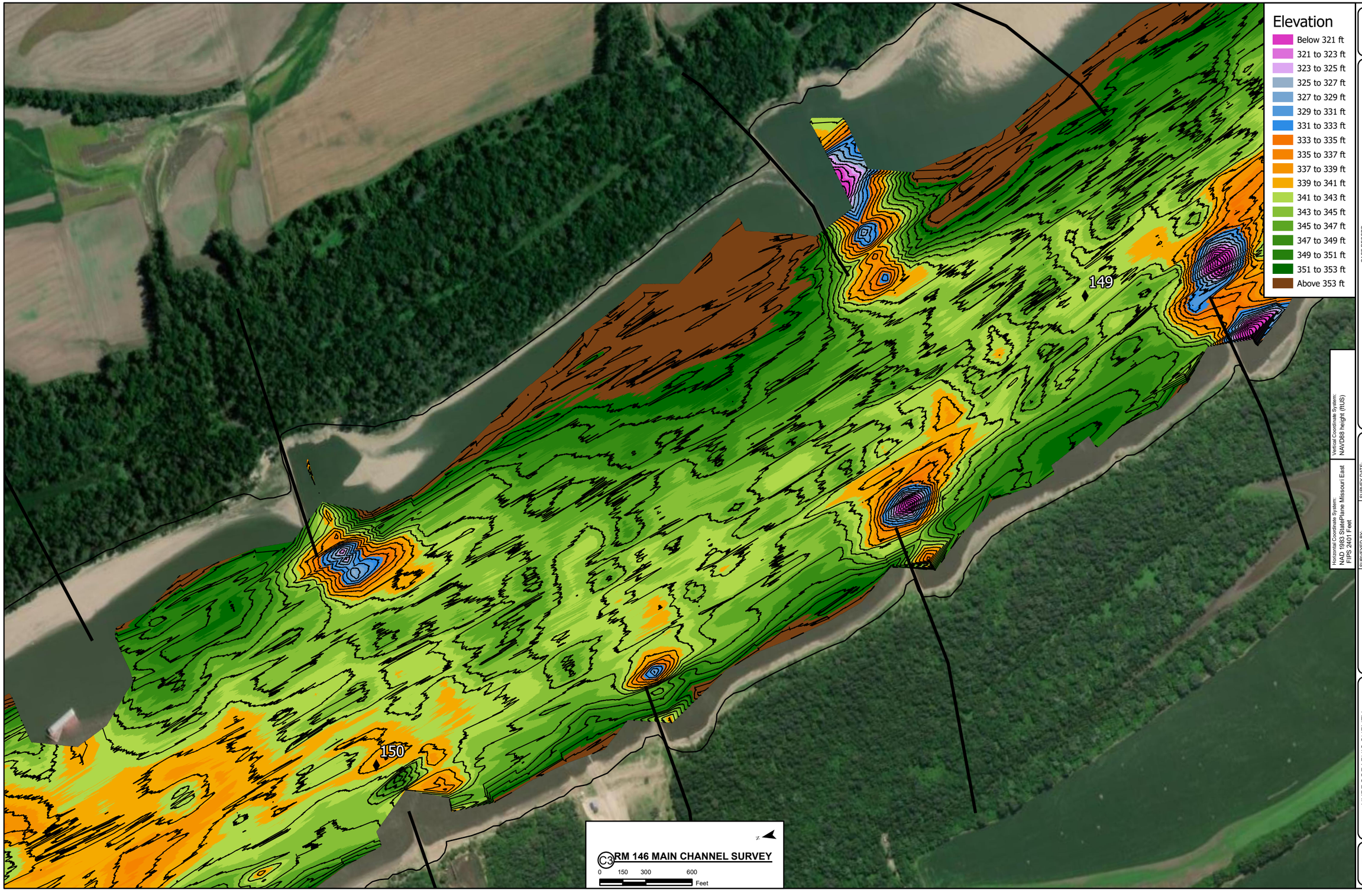
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: MV-3SMPSON II / DWyss	SURVEY DATE: FY2022	CHK BY:	
PLOTTED BY: R.Schwarzkopf	PLOTTED BY: M.DUKE	APPROVED BY: K.SHORT	
SUBMITTED BY: M.DUKE	PLOT DATE: 11/30/2022	SURVEY REQUEST ID:	
PLOT SCALE: 1 inch = 350 feet			
SIZE: ANSI B	FILE NAME: MyProject31		

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ST. LOUIS
	379.9
	180.0
	376.7
GAGE ZERO NGVD 29	
RIVER MILE	
LWRP 2014	
11/30/22	

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

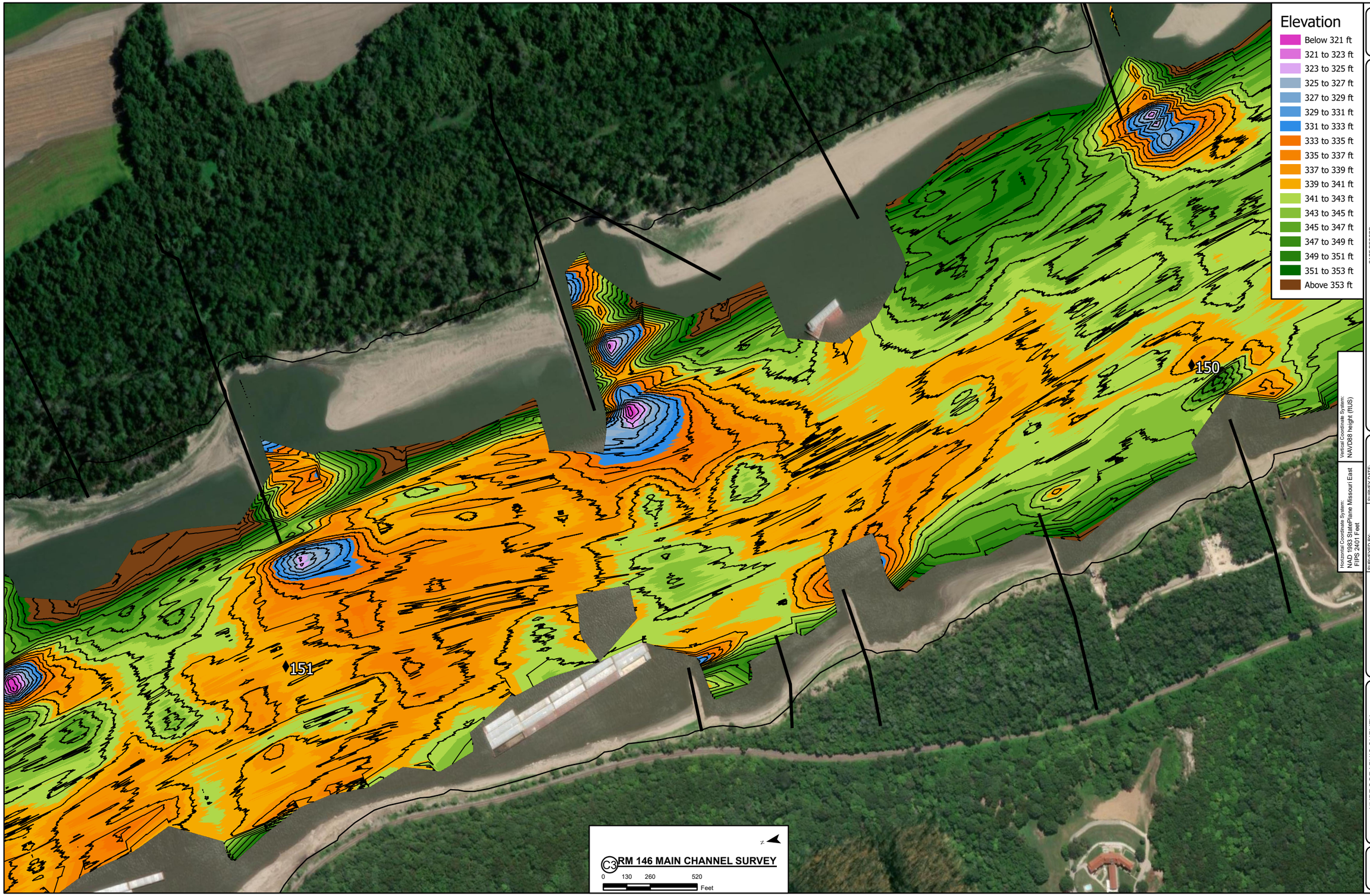
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY:		SURVEY DATE:	
MV-3MIP2OW1		11/30/22	
DRAWN BY:	RVD BY:	CHK BY:	
R.Schwarzkopf	M.DUKE		
SUBMITTED BY:		APPROVED BY:	
M.DUKE		K.SHORT	
PLOT SCALE:	PLOT DATE:	SURVEY REQUEST ID:	
1" = 300'	12/1/2022		
SIZE:	FILE NAME:		
ANSI B	MyProject131		

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ST. LOUIS
GAGE ZERO NGVD 29	379.9
RIVER MILE	180.0
LWRP 2014	376.7
11/30/22	

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (GEOID18)

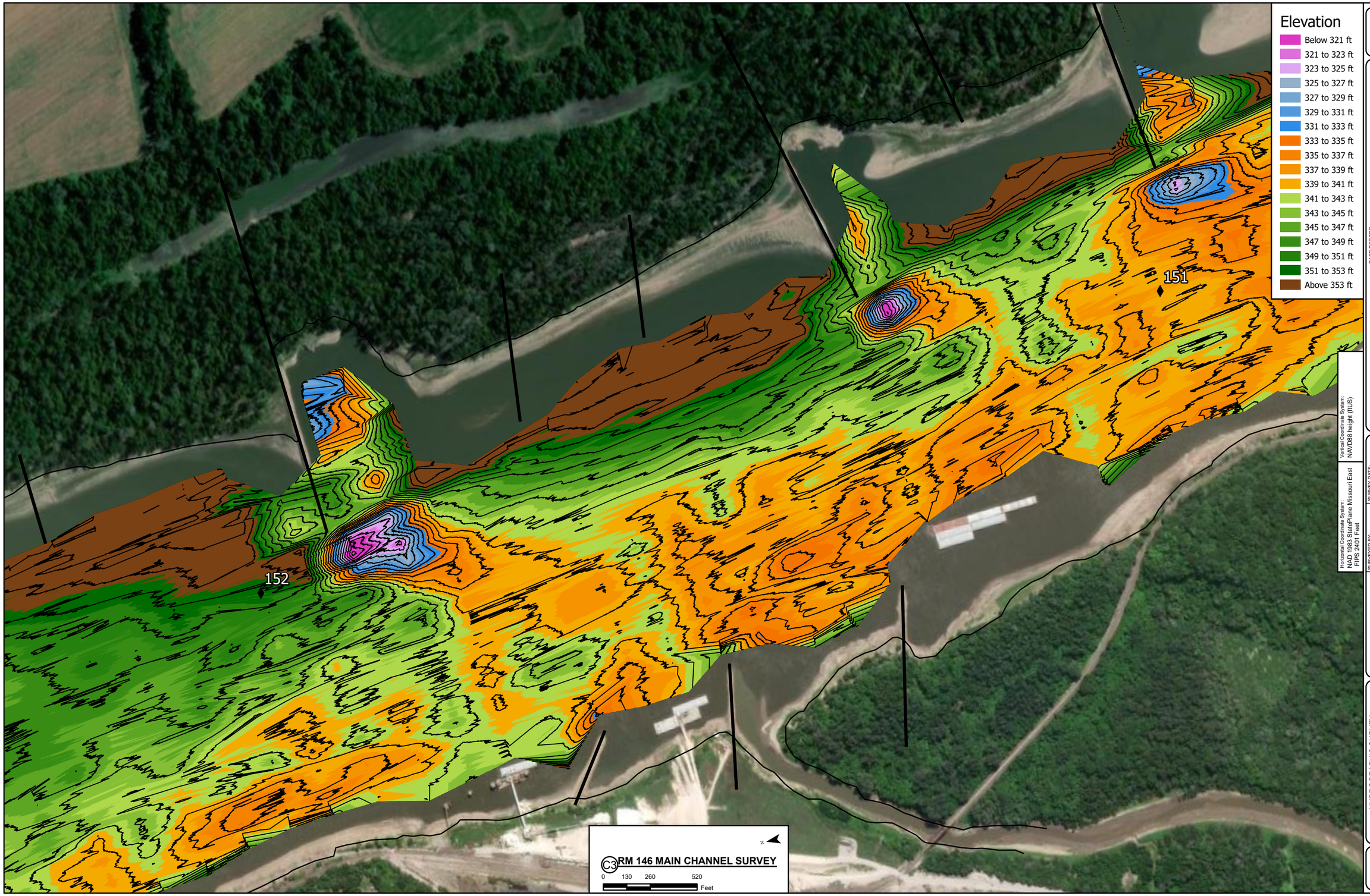
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: M.DUKE, M.SIMPSON II, R.Schwarzkopf
SURVEY DATE: 11/30/22
CHK BY:
SUBMITTED BY: M.DUKE
RVD BY: M.DUKE
CHK BY:
APPROVED BY: K.SHORT
PLOT SCALE: 1" = 200'
PLOT DATE: 12/7/2022
SURVEY REQUEST ID:
SIZE: ANSI B
FILE NAME: MyProject131

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ST. LOUIS
GAGE ZERO NGVD 29	379.9
RIVER MILE	180.0
LWRP 2014	376.7
11/30/22	

SURVEY DATE:	11/30/22
CHK BY:	
APPROVED BY:	K.SHORT
SURVEY REQUEST ID:	

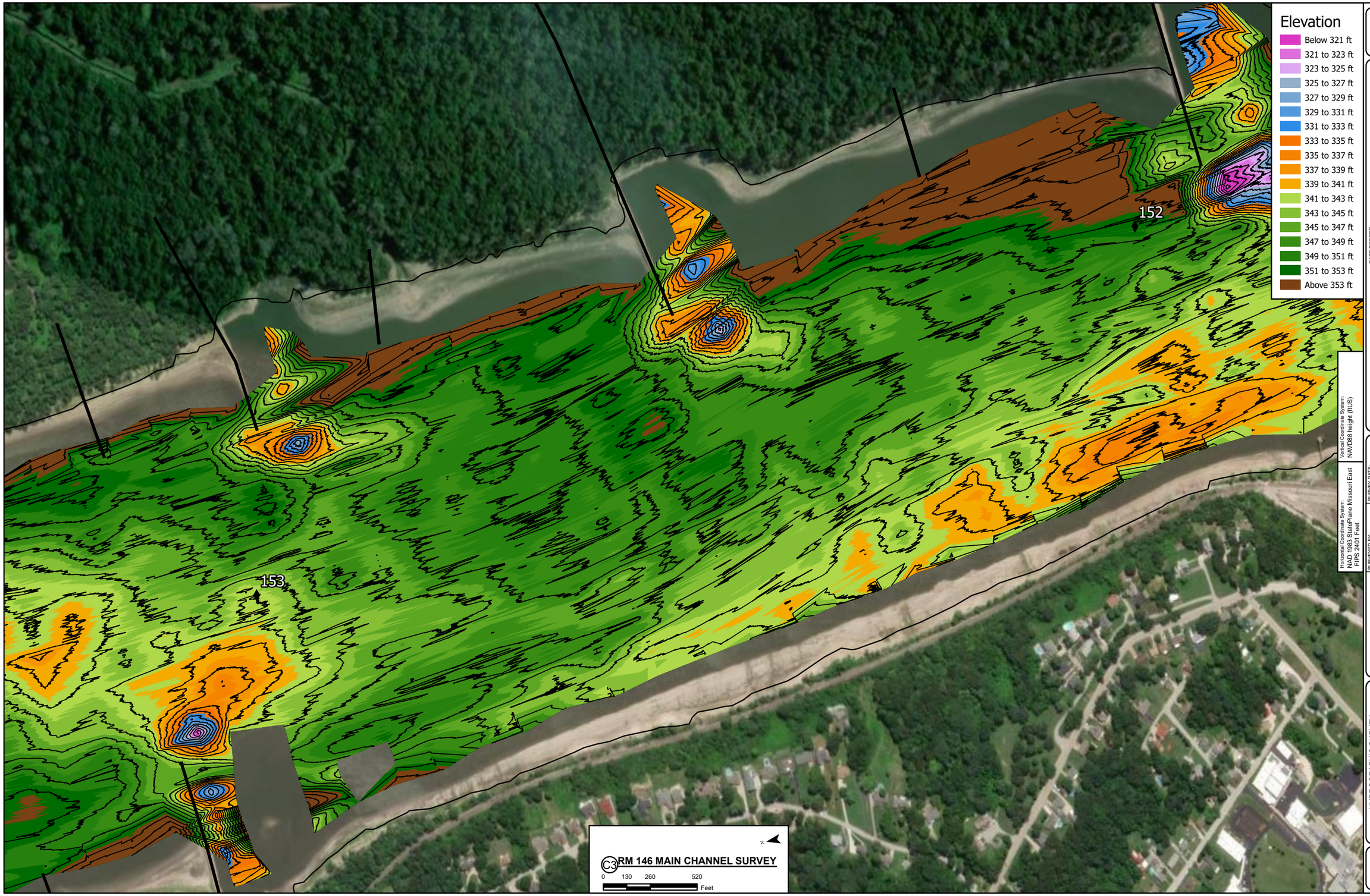
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY:	M/V SIMPSON II
DRAWN BY:	R.Steinwarz/esf
SUBMITTED BY:	M.DUKE
PLOT SCALE	1" = 520'
SIZE:	ANSI B
PLOT DATE:	11/30/22
FILE NAME:	MyProject131
CHKD BY:	M.DUKE

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



Vertical Coordinate System:
NAVD88 height (ftUS)

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East FIPS 2401 Feet

US Army Corps of Engineers
St. Louis District

GAGE RECORD

GAGE ZERO NGVD 29	RIVER MILE	LWRP 2014	11/30/22
ST. LOUIS	379.9	180.0	376.7

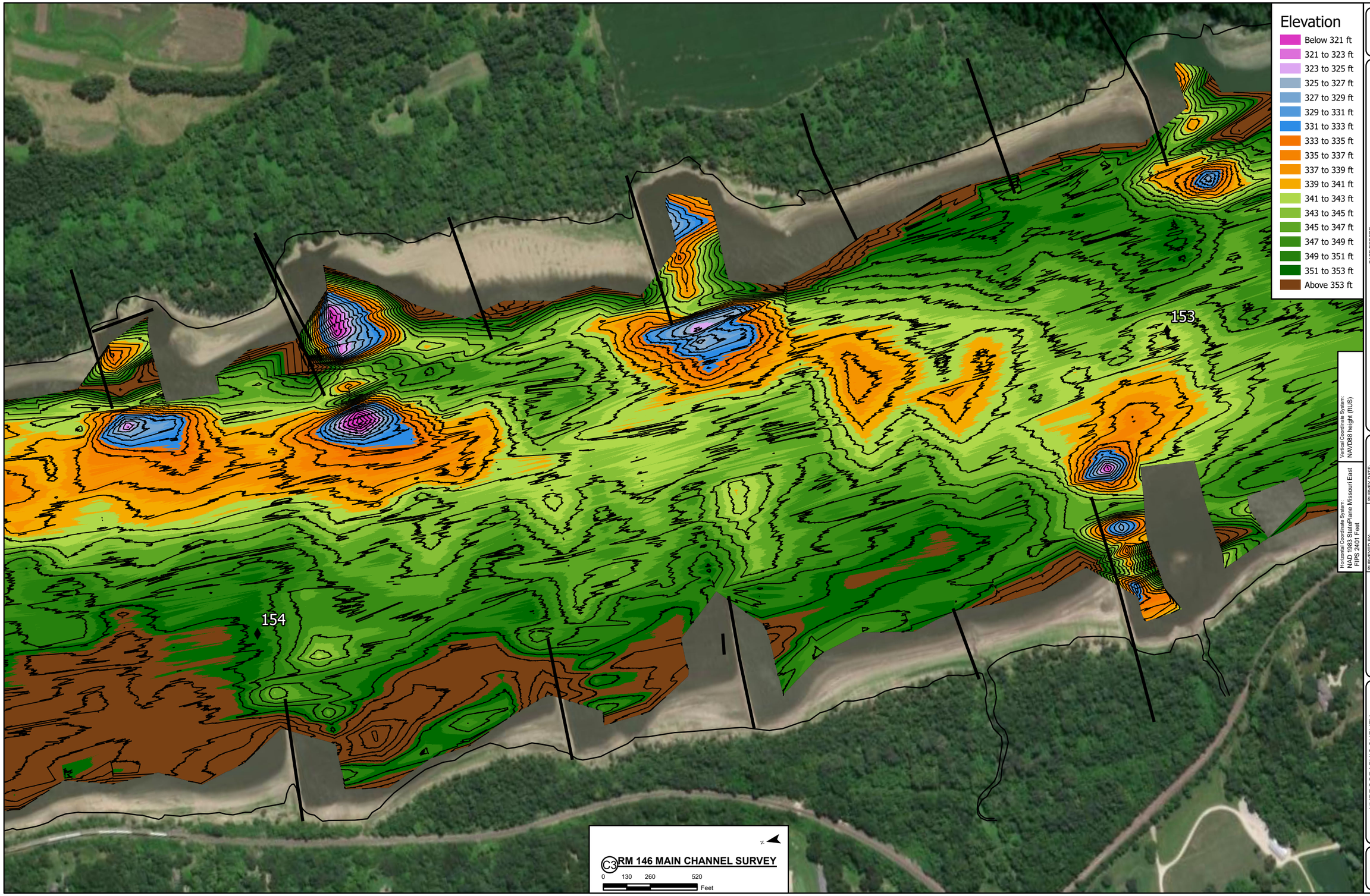
SURVEYED BY: MV SIMPSON II / R.Schwarzkopf	SURVEY DATE: 11/30/22	CHK BY:	
SUBMITTED BY: M.DUKE	R/D BY: M.DUKE	APPROVED BY: K.SHORT	
PLOT SCALE: 1"=260'	PLOT DATE: 12/7/2022	SURVEY REQUEST ID:	
SIZE: ANSI B	FILE NAME: My/Project/131		

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

ST. LOUIS
379.9
180.0
376.7
GAGE ZERO NGVD 29
RIVER MILE
LWRP 2014
11/30/22

Vertical Coordinate System:
NAVD88 height (ftUS)

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East FIPS 2401 Feet

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

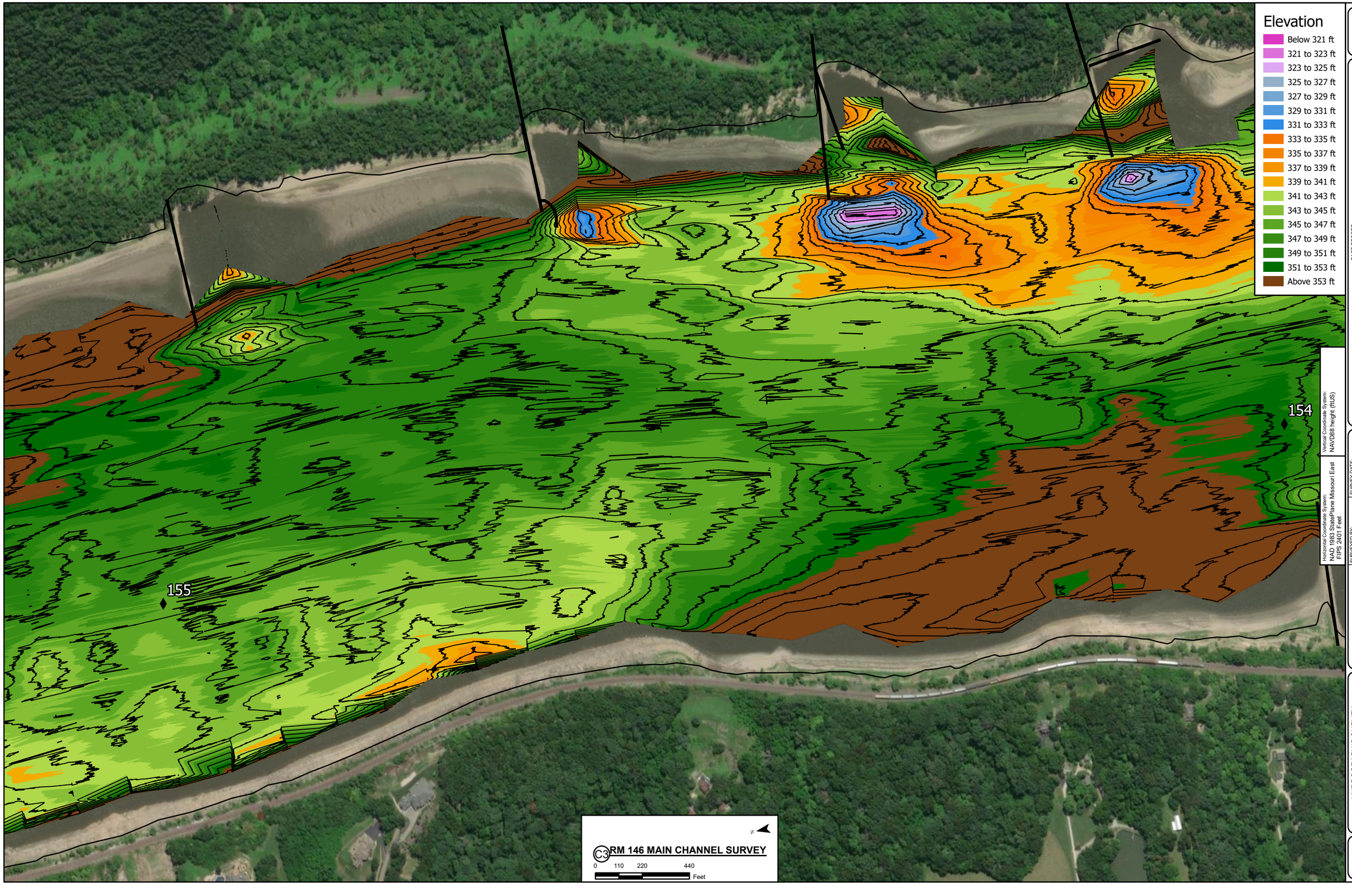
SURVEYED BY:	SURVEY DATE:
M.V.SIMPSON II	11/30/22
DRAWN BY:	RVD BY:
R.Schwarzkopf	M.DUKE
SUBMITTED BY:	APPROVED BY:
M.DUKE	K.SHORT
PLOT SCALE:	PLOT DATE:
1" = 130'	12/1/2022
SIZE:	FILE NAME:
ANSI B	MyProject131

CHK BY:
SURVEY REQUEST ID:

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



Horizontal Coordinate System:
NAD1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

US Army Corps of Engineers ®
St. Louis District

GAGE RECORD

	ST. LOUIS
	379.9
	180.0
	376.7

GAGE ZERO NGVD 29
RIVER MILE
LWRP 2014
11/30/22

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

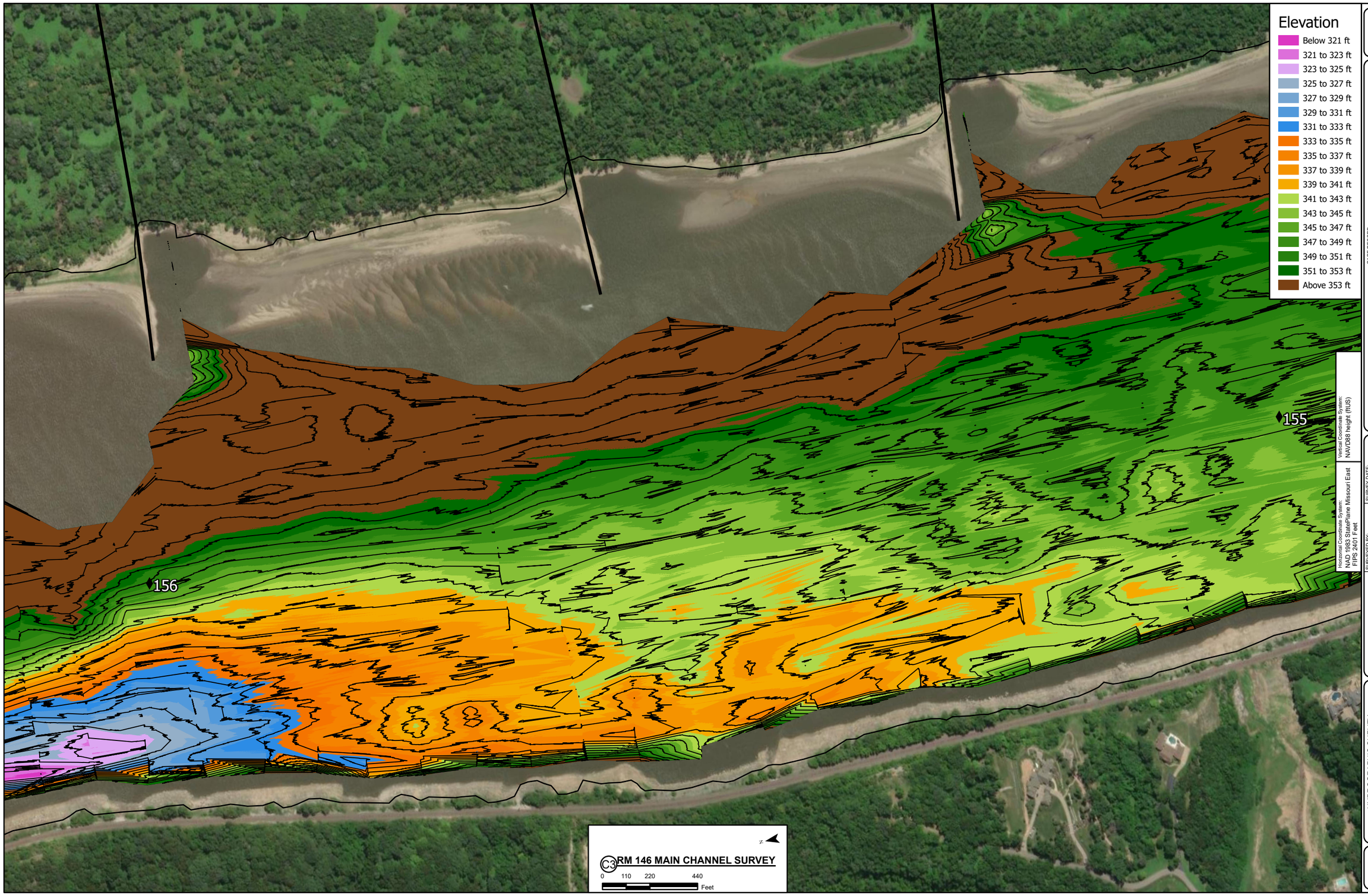
SURVEYED BY:
M/V SWP-SKIN II
DRAWN BY:
R.Schwarzkopf
SUBMITTED BY:
M.DUKE
PLOT SCALE:
1:1000
SIZE:
ANSI B

SURVEY DATE:
11/30/22
RVD BY:
M.DUKE
CHK BY:
APPROVED BY:
K.SHORT
PLOT DATE:
12/1/22
SURVEY REQUEST ID:
FILE NAME:
MyProject131

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers ®
St. Louis District

GAGE RECORD

ST. LOUIS						
379.9		180.0		376.7		

GAGE ZERO NGVD 29						
RIVER MILE						
LWRP 2014						
11/30/22						

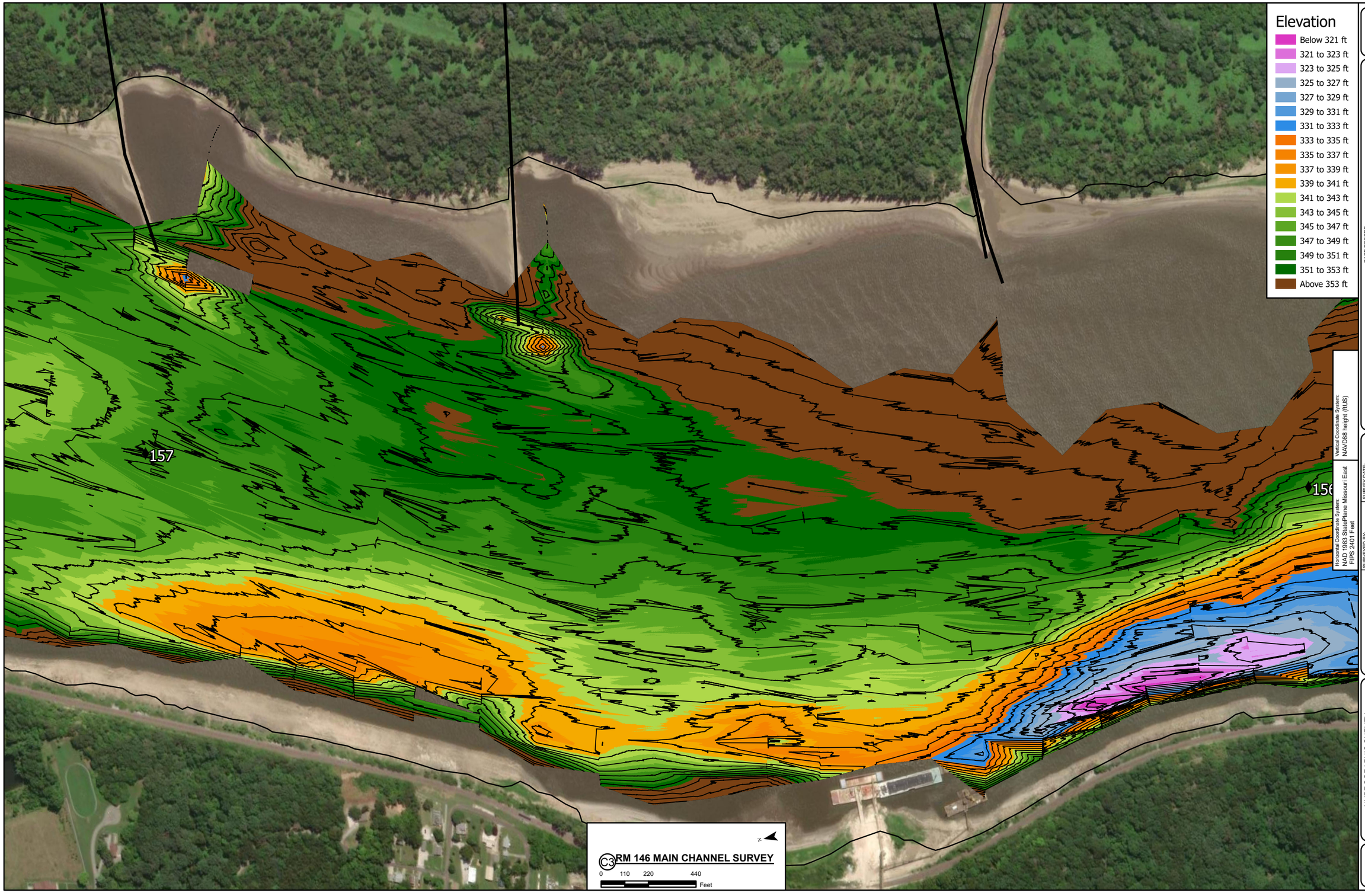
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: M/V SMPSON II / DEPTHS: R.Schwarzkopf	SURVEY DATE: 11/2022	CHK BY:	
SUBMITTED BY: M.DUKE	R/D BY: M.DUKE	APPROVED BY: K.SHORT	
PLOT SCALE: 1:2,000	PLOT DATE: 11/30/22	SURVEY REQUEST ID:	
SIZE: ANSI B	FILE NAME: MyProject131		

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

	ST. LOUIS
	379.9
	180.0
	376.7
GAGE ZERO NGVD 29	
RIVER MILE	
LWRP 2014	
11/30/22	

Vertical Coordinate System:
NAVD88 height (ftUS)

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

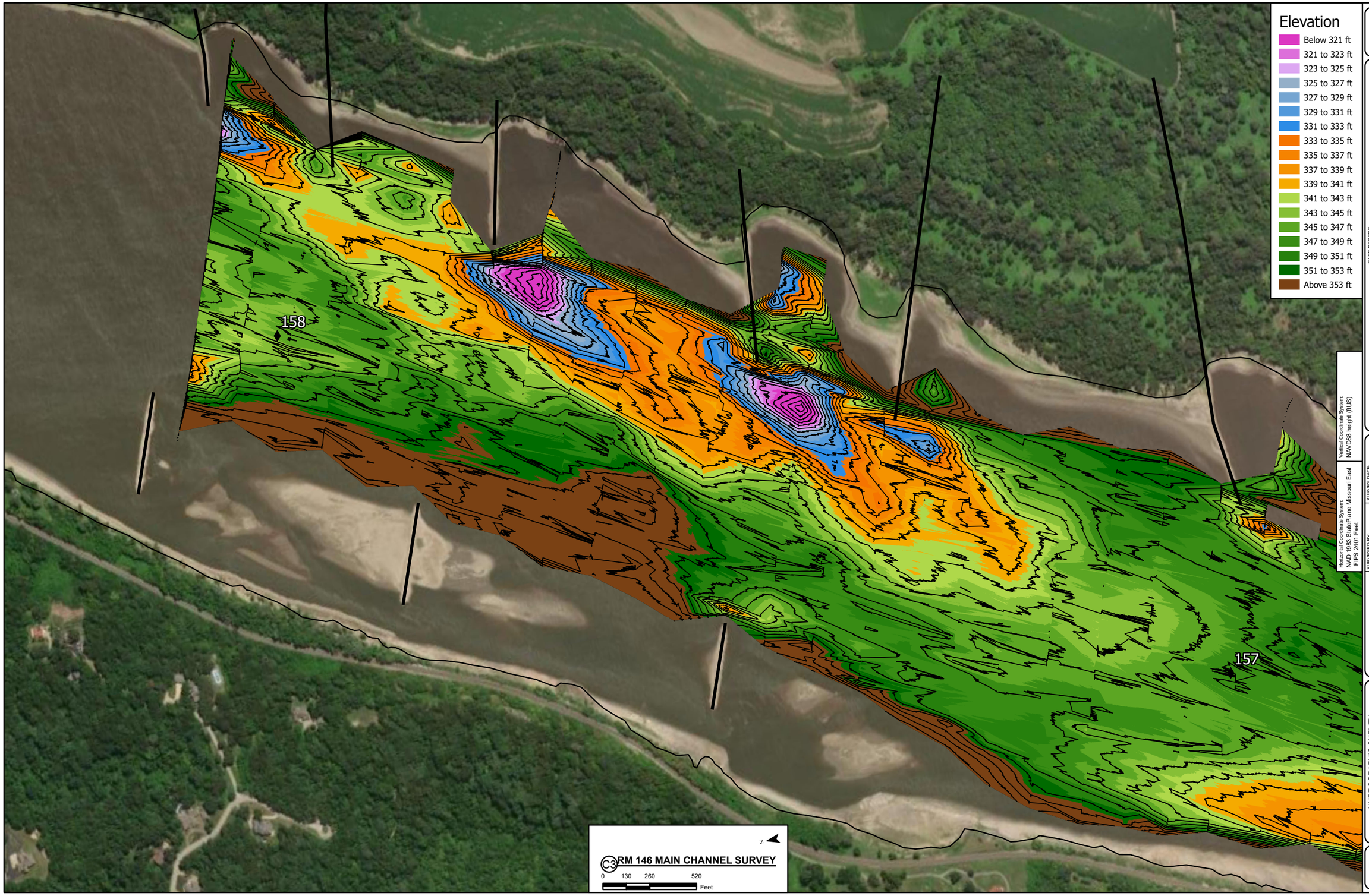
U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: MV-3IMPSDW11		SURVEY DATE: 11/30/22	CHK BY:
DRAWN BY: R.Schmerbeckopf	R/D BY: M.DUKE		APPROVED BY: K.SHORT
SUBMITTED BY: M.DUKE		PLOT DATE: 12/6/22	SURVEY REQUEST ID:
PLOT SCALE: 1" = 220'		FILE NAME: MyProject131	
SIZE: ANSI B			

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101



US Army Corps of Engineers
St. Louis District

GAGE RECORD

ST. LOUIS
379.9
180.0
376.7
GAGE ZERO NGVD 29
RIVER MILE
LWRP 2014
11/30/22

Horizontal Coordinate System:
NAD 1983 StatePlane Missouri East
FIPS 2401 Feet

Vertical Coordinate System:
NAVD88 height (ftUS)

U.S. ARMY CORPS OF ENGINEERS
ST. LOUIS DISTRICT
ST. LOUIS, MISSOURI 63103

SURVEYED BY: MV 336#PSON II R.Schwarzkopf	PVD BY: M.DUKE	CHK BY:	SURVEY DATE: 11/2022
SUBMITTED BY: M.DUKE		APPROVED BY: K.SHORT	SURVEY REQUEST ID:
PLOT SCALE: 1=1000	PLOT DATE: 11/30/22		
SIZE: ANSI B	FILE NAME: MyProject131		

HYDROGRAPHIC SURVEY
SINGLEBEAM
MISSISSIPPI RIVER

RM 146 MAIN CHANNEL SURVEY
AERIAL IMAGERY DATE: 2022 (ESRI)
CONTOUR INTERVAL: 2 FOOT

SHEET IDENTIFICATION
V-101