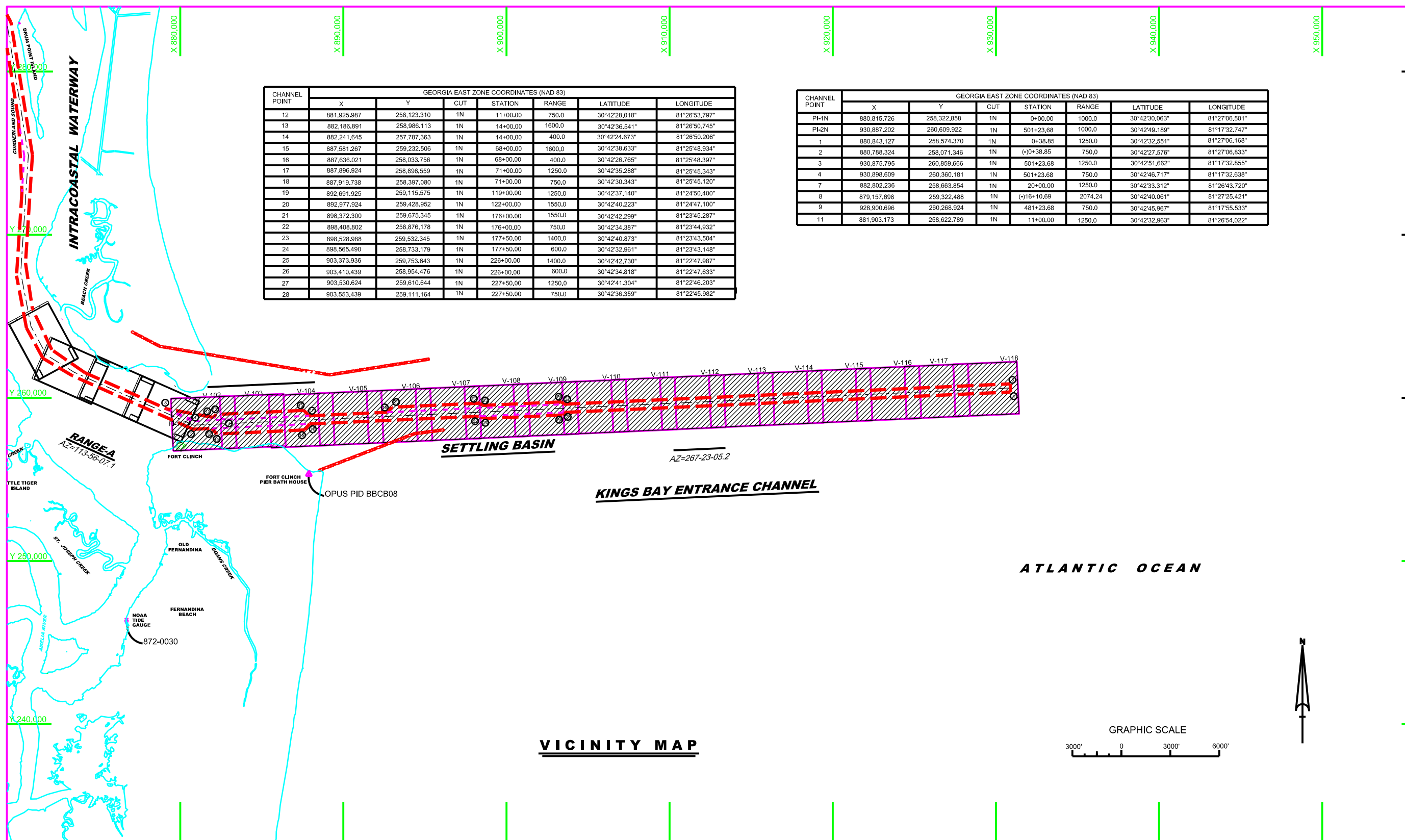
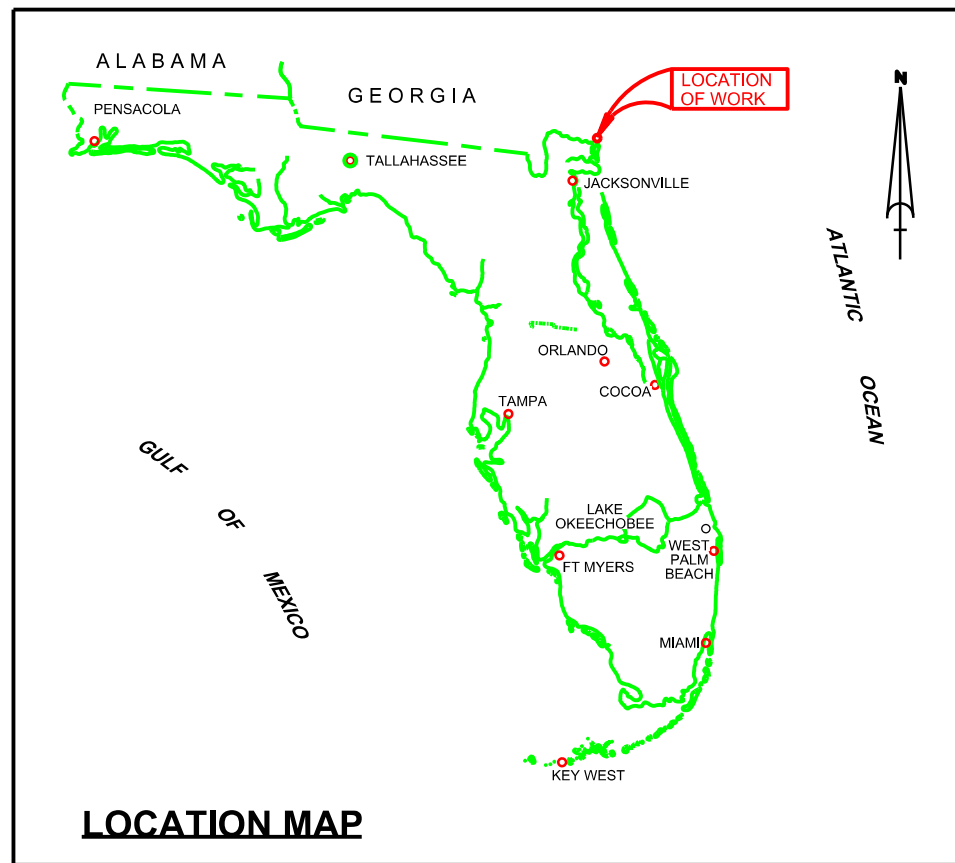


# KINGS BAY ENTRANCE CHANNEL BIMONTHLY EXAMINATION SURVEY FEB 2019



**MAP SHEET NOTES:**

1. REFER TO SURVEY NO. 19-103.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAUGE SITES SPECIFIED BELOW:  
  
NOAA TIDAL STATION: 872-0030 FERNANDINA BEACH, AMELIA RIVER, FLORIDA FOR CUT-IN.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS USING A HYPACK KINEMATIC TIDAL DATUM (KTD) FILE. FILE NAME: KINGSBAY-2013 06 10.KTD.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:  
  
REFERENCE BASE LOCATED AT "BATH HOUSE ARP" (OPUS PID: BBCB08)  
  
TIDE STAFF WAS SET NEAR FERNANDINA MUNICIPAL MARINA FROM "RICHARD E. BONNER" (OPUS PID: BBCK39)
8. VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC MODEL 2026 MULTI-BEAM SYSTEM, AND A ROSS MODEL 835C DUAL-FREQUENCY SOUNDER WITH A 28/200 KHZ SINGLE-BEAM TRANSDUCER. SOUNDINGS FROM STA. 0+00 TO STA. 200+00 AND STA. 350+00 TO STA. 501+24 ARE SHOWN IN HIGH FREQUENCY (240 KHZ) AND LOW FREQUENCY (28 KHZ) FROM STA. 200+00 TO STA. 350+00.
9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF SURVEY AND IS NOT TO BE USED FOR NAVIGATION.
11. SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 2010.

SURVEY VESSEL	DATE OF SURVEY	AREA SURVEYED
SV FLORIDA II	23-25 JAN 2019	CUT-IN, STA 75+00 - 350+00
SV FLORIDA II	01 FEB 2019	CUT-IN, STA 0+00 - 75+00
SV FLORIDA II	02 FEB 2019	CUT-IN, STA 360+00 - 501+24
SB-46	16 FEB 2019	CUT-IN, STA 350+00 - 360+00

LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAY BEACON
	RED DAY BEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	MAJOR CONTOUR
	MINOR CONTOUR
	MAJOR DEPRESSION
	MINOR DEPRESSION

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

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U.S. NAVY ENTRANCE CHANNEL  
KINGS BAY, GEORGIA

**BIMONTHLY EXAMINATION SURVEY - FEB 2019**

**46 - FOOT PROJECT**

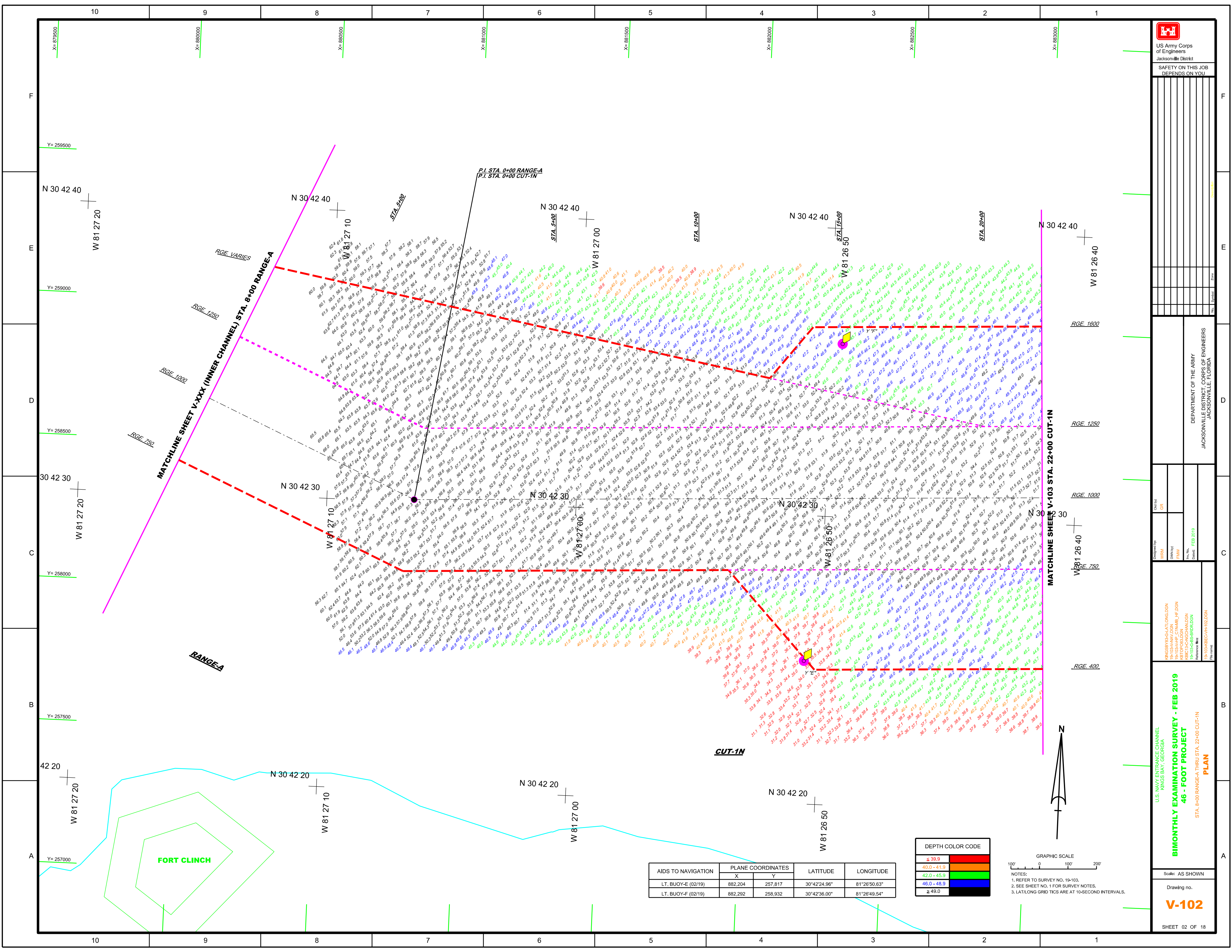
INDEX, LOCATION AND VICINITY  
MAP

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Scale: AS SHOWN

Drawing no.  
**V-101**

SHEET 01 OF 18



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 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA

Checked By: GRL  
 Drawn By: FHW  
 Date: FEB 2019

U.S. NAVY ENTRANCE CHANNEL  
 KINGS BAY, GEORGIA  
**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
 46 - FOOT PROJECT  
 STA. 8+00 RANGE-A THRU STA. 22+00 CUT-IN  
**PLAN**

Scale: AS SHOWN  
 Drawing no. **V-102**  
 SHEET 02 OF 18

**DEPTH COLOR CODE**

≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 43.9	Yellow
44.0 - 45.9	Green
46.0 - 48.9	Blue
≥ 49.0	Dark Blue

**AIDS TO NAVIGATION**

	X	Y	LATITUDE	LONGITUDE
LT. BUOY-E (02/19)	882.204	257.817	30°42'24.96"	81°26'50.63"
LT. BUOY-F (02/19)	882.292	258.932	30°42'36.00"	81°26'49.54"

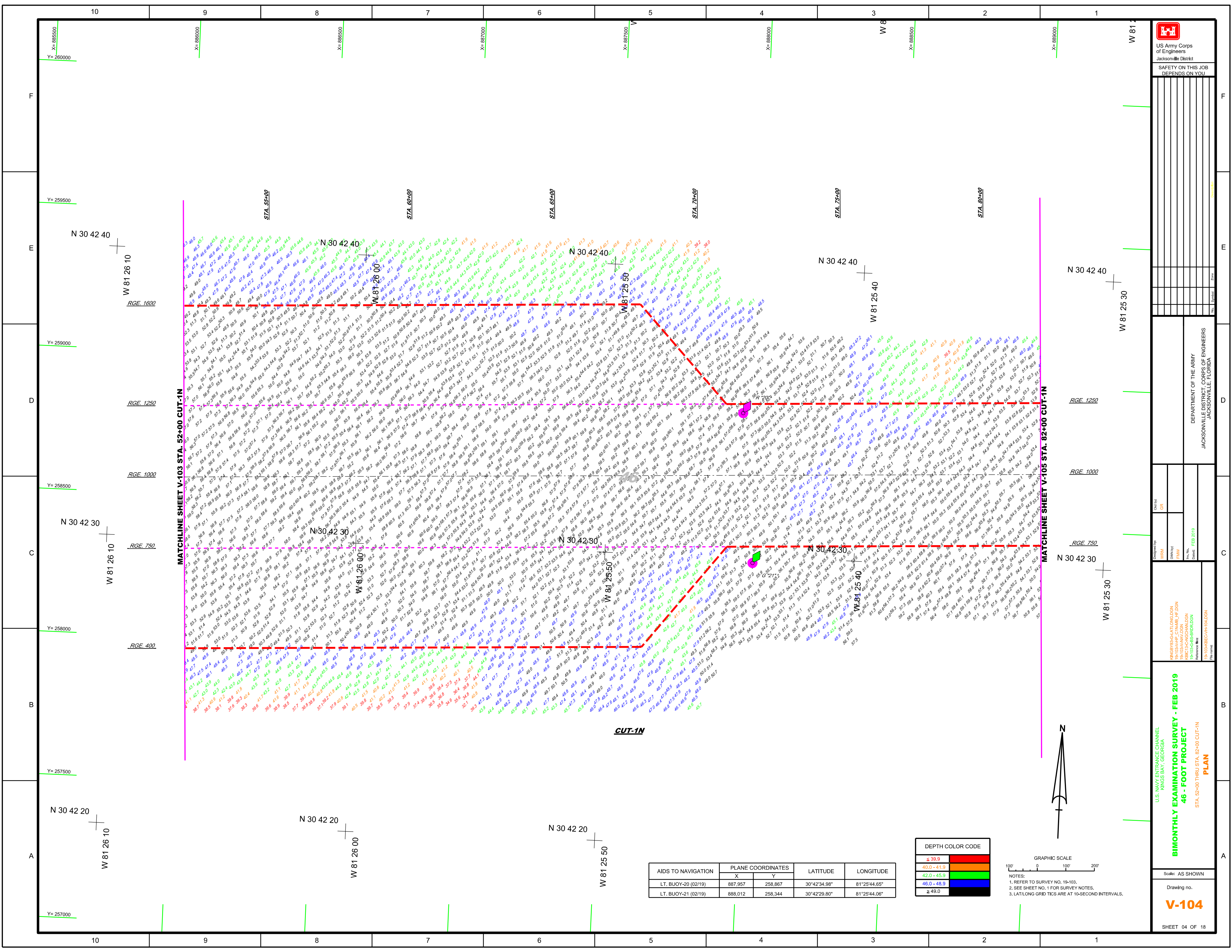
GRAPHIC SCALE  
 0 100' 200'

NOTES:  
 1. REFER TO SURVEY NO. 19-103.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.









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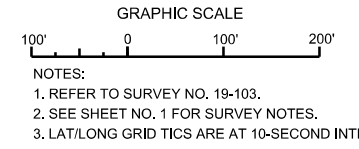
Checked By: GRL  
Designed By: WRM, JHM, FAW, JHM  
Drawn By: JHM, FAW, JHM  
Reference Date: FEB 2019

U.S. NAVY ENTRANCE CHANNEL  
KINGS BAY, GEORGIA  
**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
46 - FOOT PROJECT  
PLAN  
STA. 52+00 THRU STA. 82+00 CUT-IN

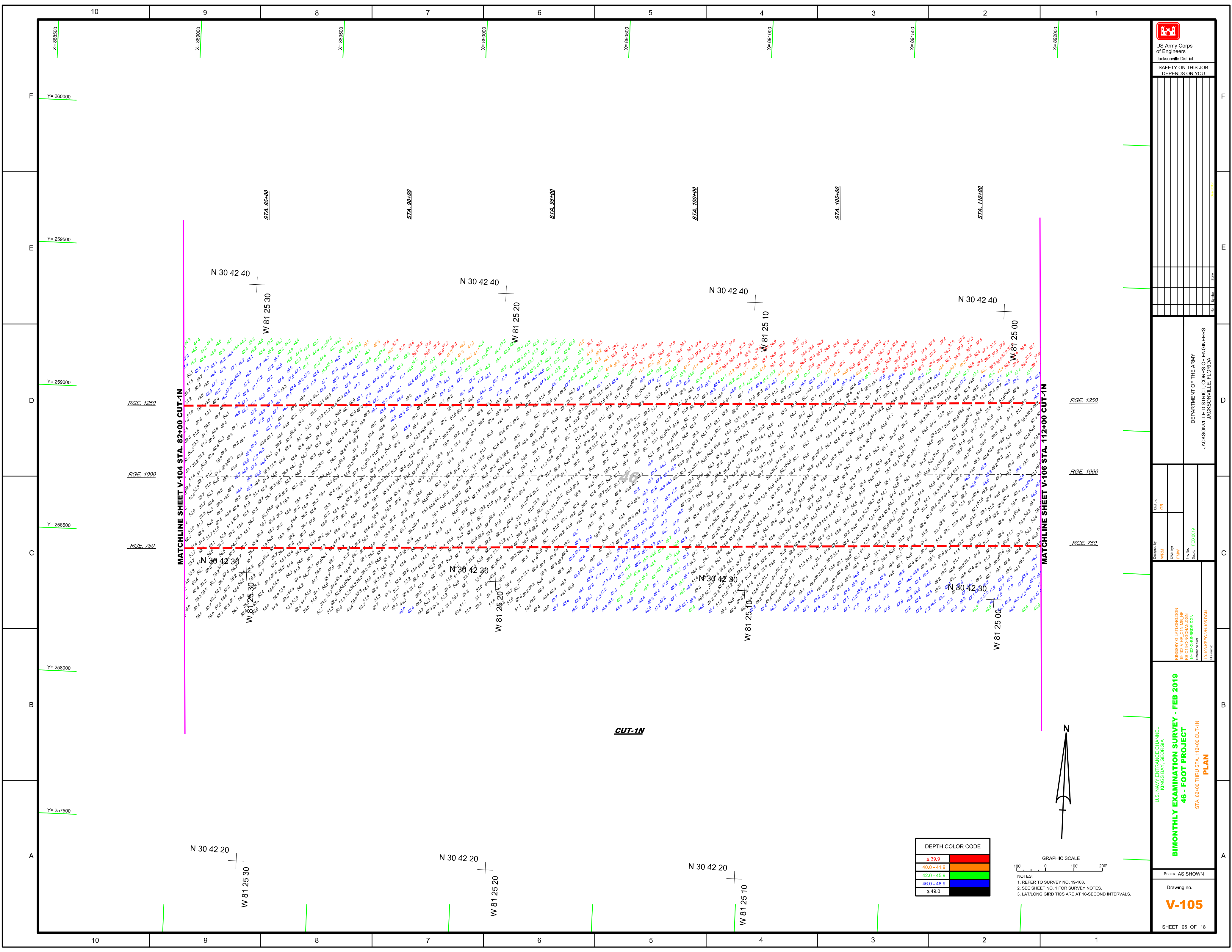
Scale: AS SHOWN  
Drawing No. **V-104**  
SHEET 04 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-20 (0219)	887,957	258,867	30°42'34.98"	81°25'44.65"
LT. BUOY-21 (0219)	888,012	258,344	30°42'29.80"	81°25'44.06"

DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 43.9	Yellow
44.0 - 45.9	Green
46.0 - 48.9	Blue
≥ 49.0	Black








DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

GRAPHIC SCALE  
100' 0 100' 200'

NOTES:  
1. REFER TO SURVEY NO. 19-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



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JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

---

Checked By: GRL  
Designed By: WRM  
Drawn By: FAW  
Reference Map: 19-103-REC-VH-105.DGN  
Date: FEB 2019

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U.S. NAVY ENTRANCE CHANNEL  
KINGS BAY, GEORGIA

**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
**46 - FOOT PROJECT**

STA. 82+00 THRU STA. 112+00 CUT-IN  
**PLAN**

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Scale: AS SHOWN

Drawing no.  
**V-105**

SHEET 05 OF 18



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JACKSONVILLE, FLORIDA

Designed by: WRM  
Checked by: GRL  
Drawn by: FAW  
Reference Date: FEB 2019

U.S. NAVY ENTRANCE CHANNEL  
KINGS BAY, GEORGIA

**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
**46 - FOOT PROJECT**

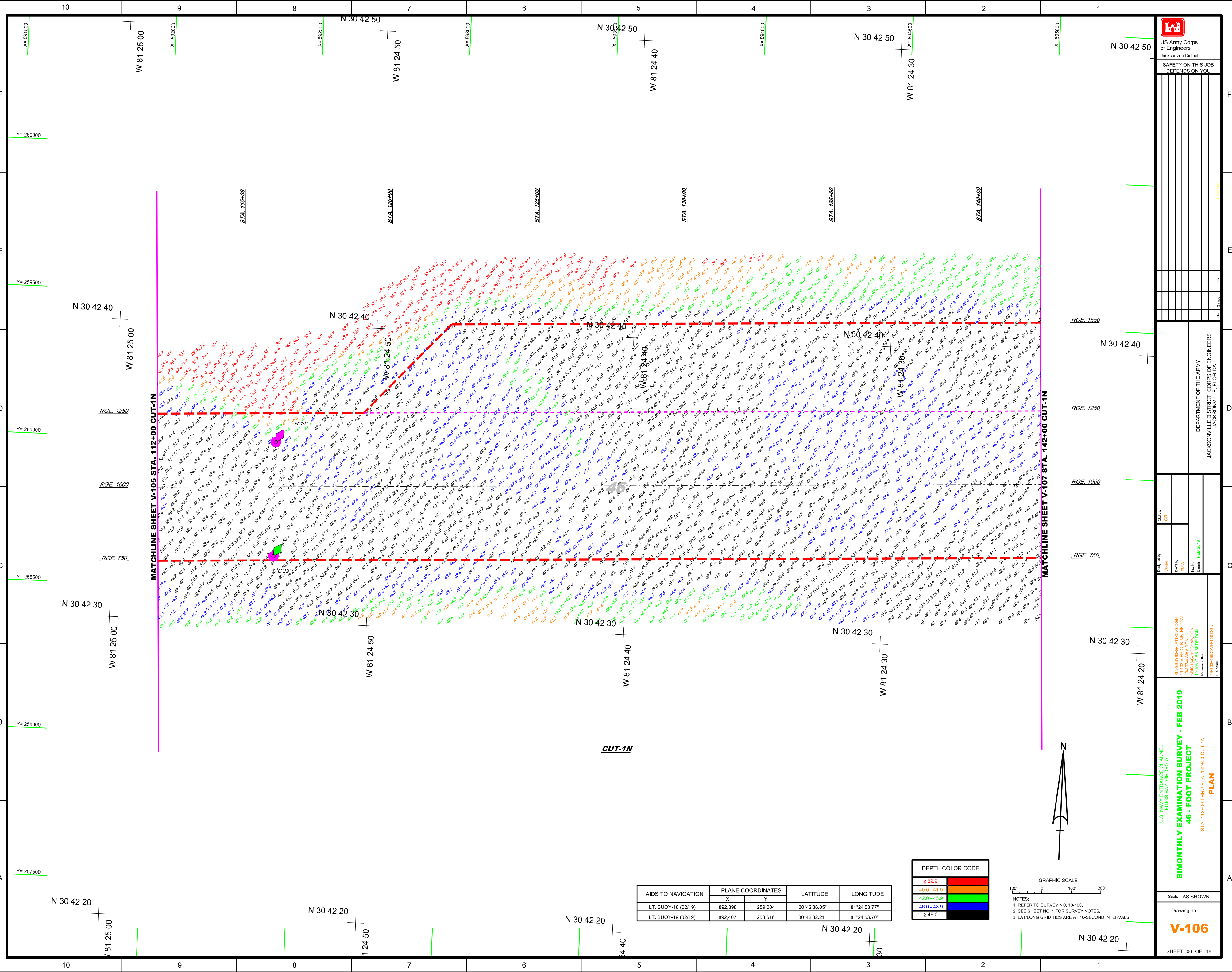
Reference Date: FEB 2019

**PLAN**

Scale: AS SHOWN

Drawing no. **V-106**

SHEET 06 OF 18



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-18 (02/19)	892,398	259,004	30°42'36.05"	81°24'53.77"
LT. BUOY-19 (02/19)	892,407	258,616	30°42'32.21"	81°24'53.70"

DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 43.9	Yellow
44.0 - 45.9	Green
46.0 - 47.9	Cyan
48.0 - 49.0	Blue
≥ 49.0	Black

GRAPHIC SCALE  
100' 0 100' 200'

NOTES:  
1. REFER TO SURVEY NO. 10-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



STA. 115+00 STA. 120+00 STA. 125+00 STA. 130+00 STA. 135+00 STA. 140+00

W 81 25 00 W 81 24 50 W 81 24 40 W 81 24 30 W 81 24 20 W 81 24 10

N 30 42 50 N 30 42 40 N 30 42 30 N 30 42 20

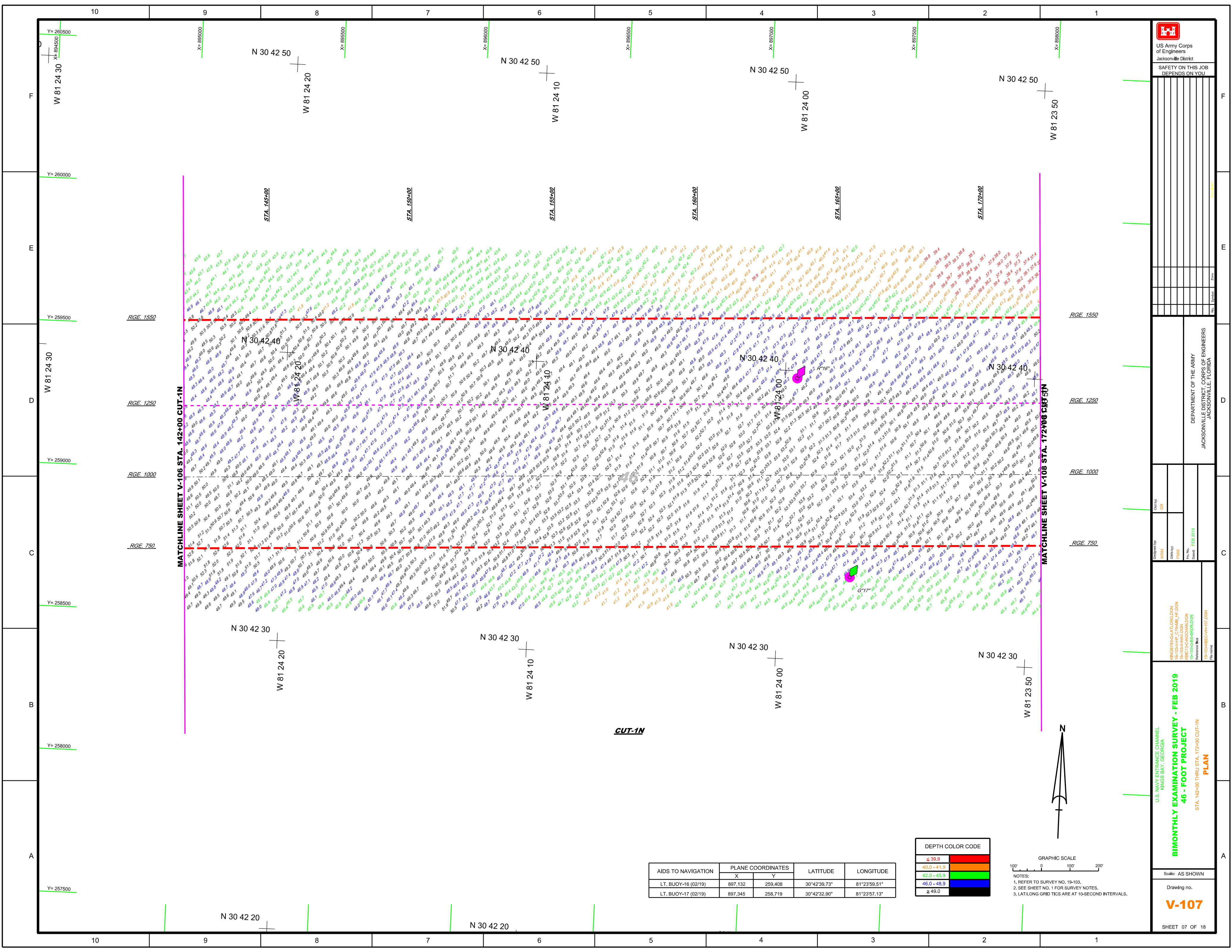
RGE 1250 RGE 1000 RGE 750

Y=260000 Y=259500 Y=259000 Y=258500 Y=258000

X=891500 X=892000 X=892500 X=893000 X=893500 X=894000 X=894500 X=895000

CUT-IN





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 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA

Designed by: WRM  
 Checked by: GRL  
 Drawn by: FHW  
 Date: FEB 2019  
 Reference: 16-103-REC-VH-107.DGN

U.S. NAVY ENTRANCE CHANNEL  
 KINGS BAY, GEORGIA  
**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
**46 - FOOT PROJECT**  
 STA. 142+00 THRU STA. 172+00 CUT-IN  
**PLAN**  
 Scale: AS SHOWN  
 Drawing no. **V-107**  
 SHEET 07 OF 18

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-16 (02/19)	897,132	259,408	30°42'39.73"	81°23'59.51"
LT. BUOY-17 (02/19)	897,345	258,719	30°42'32.90"	81°23'57.13"

DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue



NOTES:  
 1. REFER TO SURVEY NO. 16-103.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.





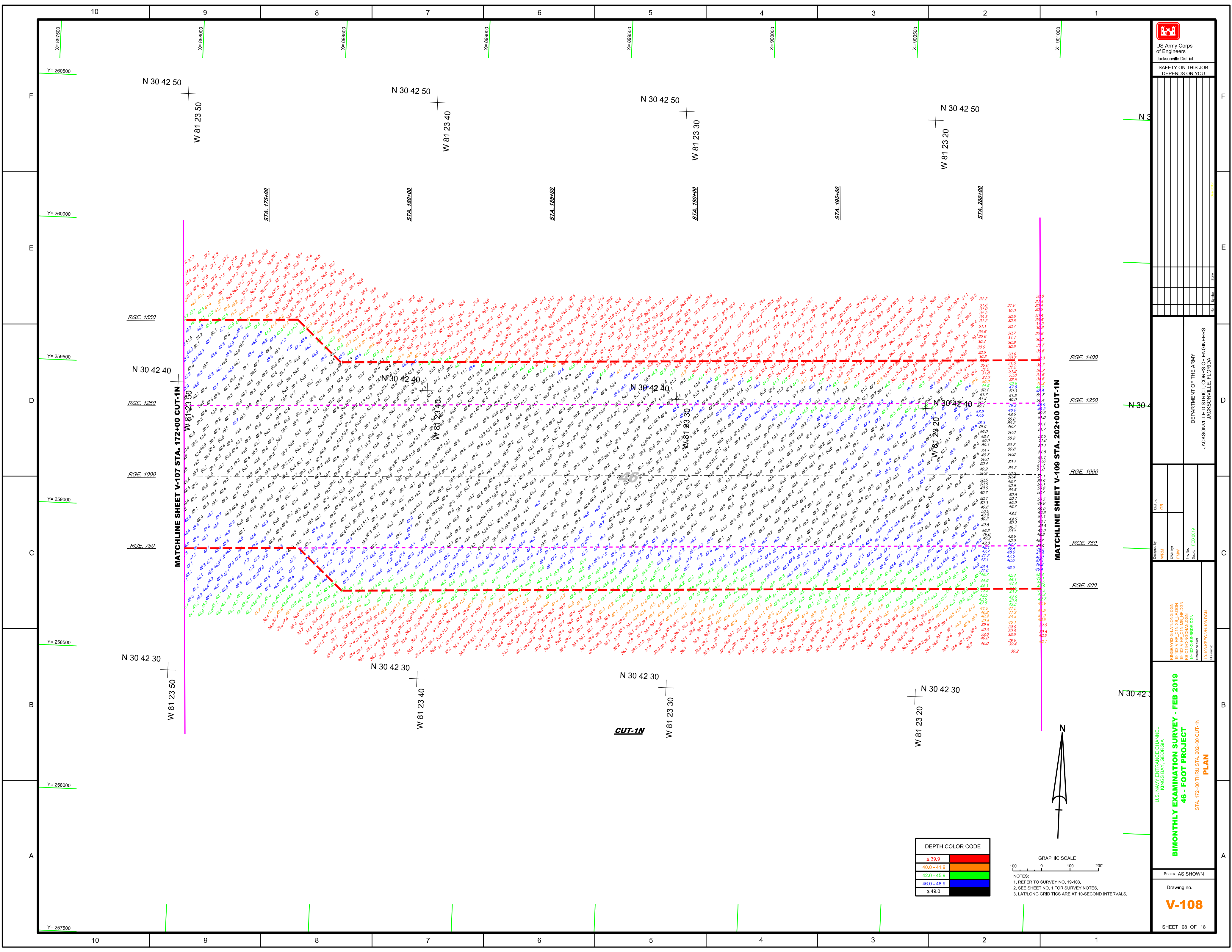
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JACKSONVILLE, FLORIDA

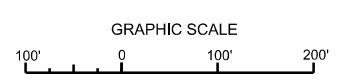
Checked By: GRL  
Designed By: WRM, DWN, FAW, JAW  
Date: FEB 2019

PROJECT: KINGSBAY ENTRANCE CHANNEL  
KINGS BAY, GEORGIA  
SURVEY: BIMONTHLY EXAMINATION SURVEY - FEB 2019  
PROJECT: 46 - FOOT PROJECT  
Reference: 16-103-REC-VH-108.DGN

Scale: AS SHOWN  
Drawing no.  
**V-108**  
SHEET 08 OF 18

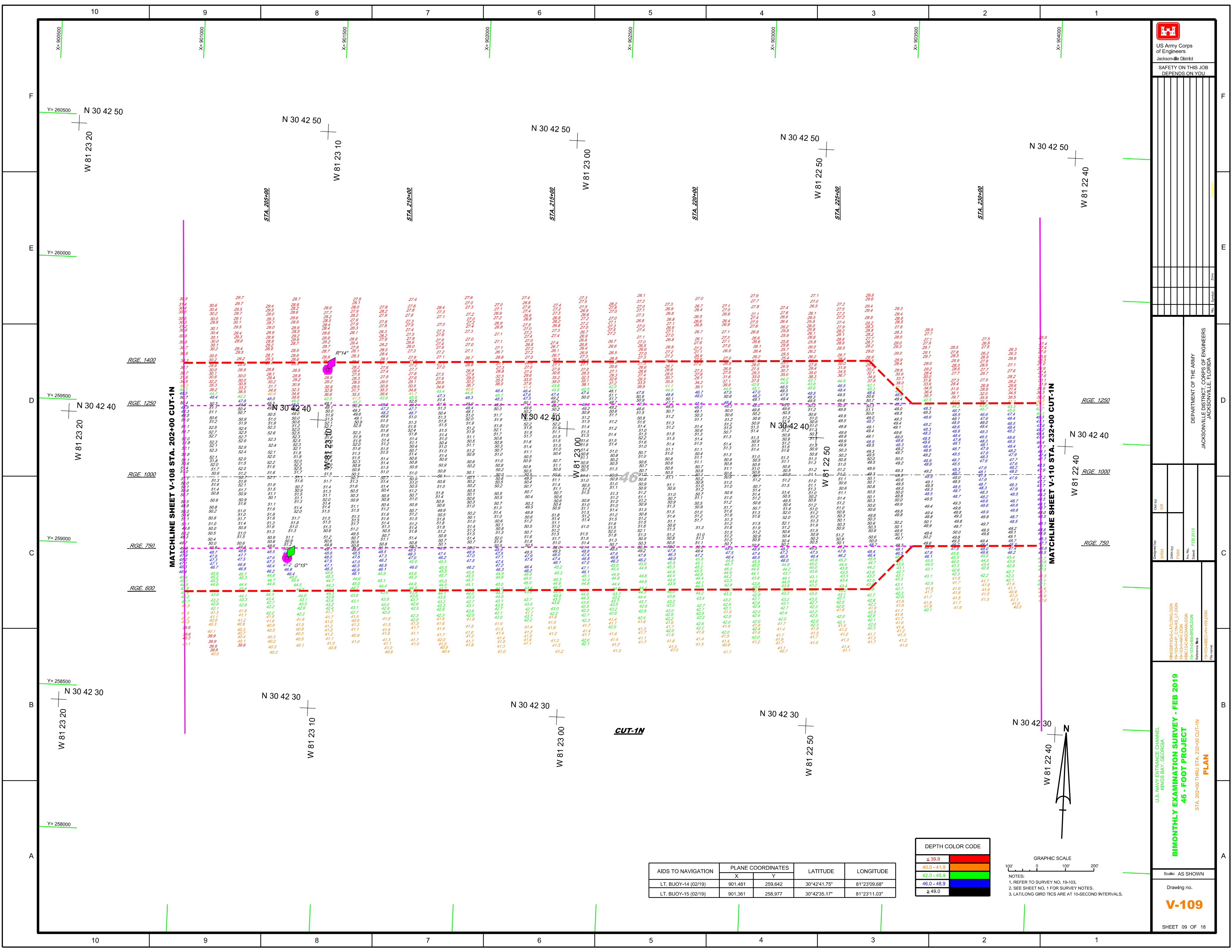


DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue



NOTES:  
1. REFER TO SURVEY NO. 16-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.





**DEPTH COLOR CODE**

≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

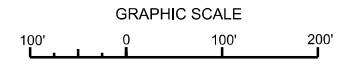
**AIDS TO NAVIGATION**

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-14 (02/19)	901,481	259,642	30°42'41.75"	81°23'09.68"
LT. BUOY-15 (02/19)	901,361	258,977	30°42'35.17"	81°23'11.03"

MATCHLINE SHEET V-108 STA. 202+00 CUT-IN

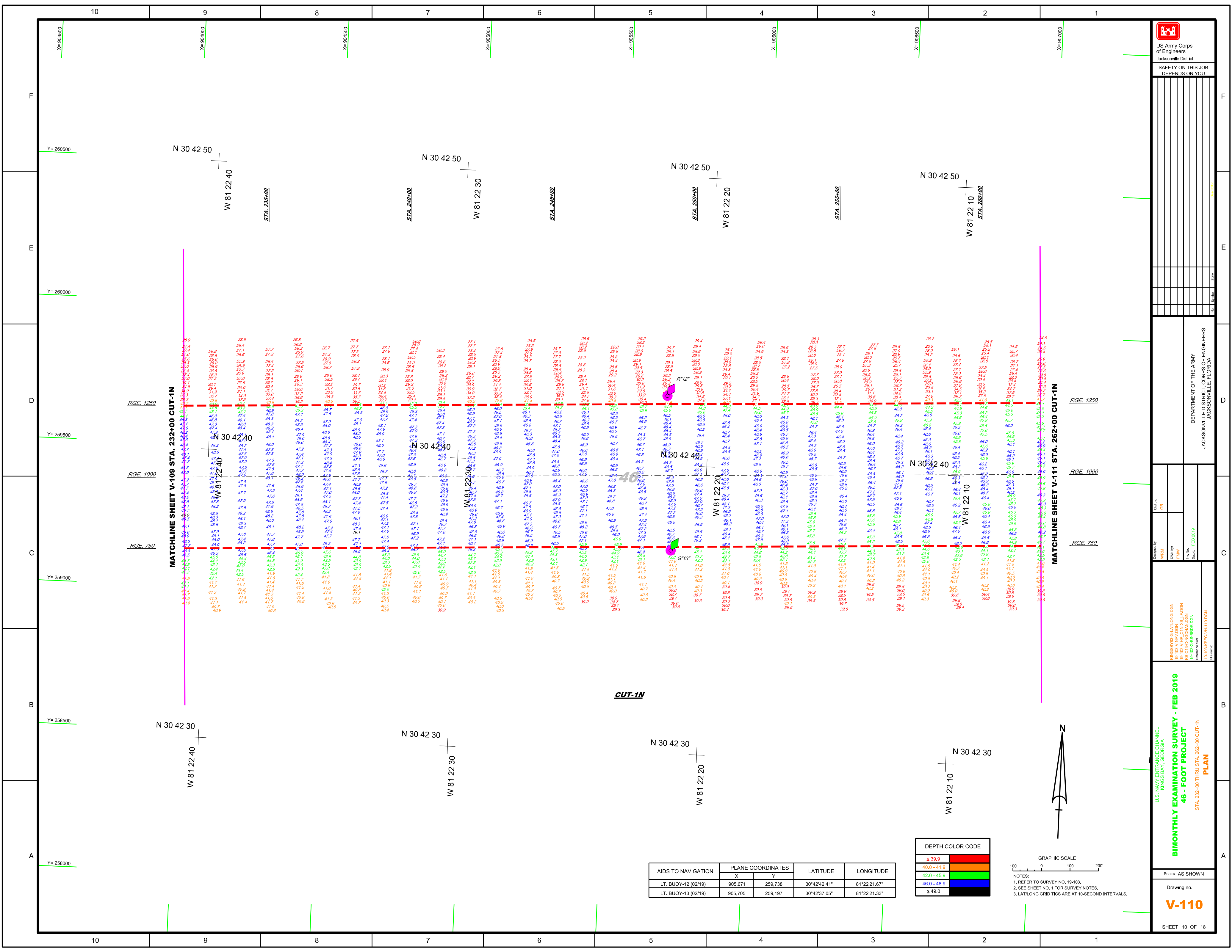
MATCHLINE SHEET V-110 STA. 232+00 CUT-IN

**CUT-IN**



NOTES:  
1. REFER TO SURVEY NO. 19-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.





**DEPTH COLOR CODE**

≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue



NOTES:  
1. REFER TO SURVEY NO. 10-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-12 (02/19)	905,671	259,738	30°42'42.41"	81°22'21.67"
LT. BUOY-13 (02/19)	905,705	259,197	30°42'37.05"	81°22'21.33"

**CUT-IN**

MATCHLINE SHEET V-109 STA. 232+00 CUT-IN

MATCHLINE SHEET V-111 STA. 262+00 CUT-IN

RGE. 1250

RGE. 1250

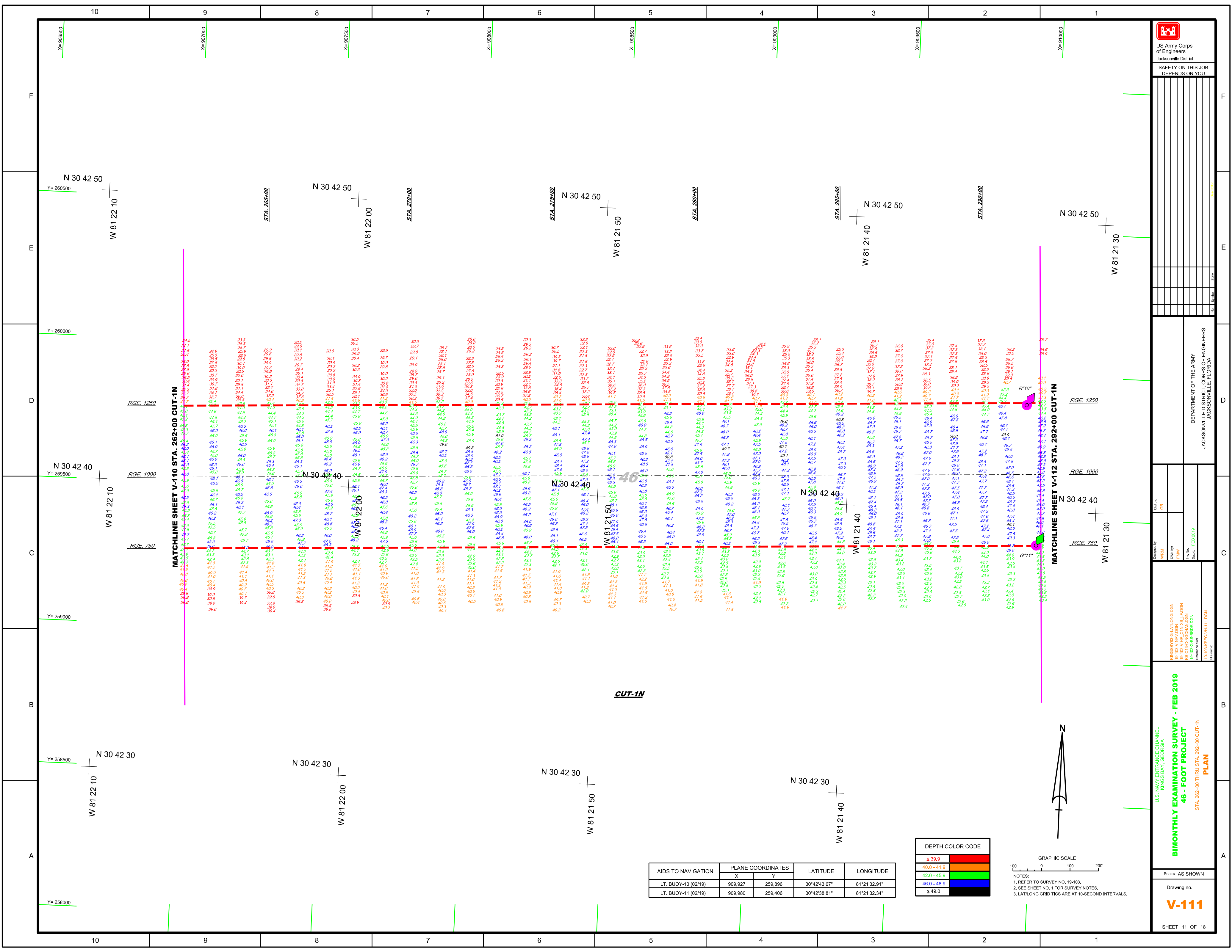
RGE. 1000

RGE. 1000

RGE. 750

RGE. 750





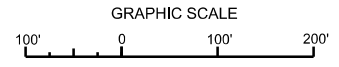
MATCHLINE SHEET V-110 STA. 262+00 CUT-IN

MATCHLINE SHEET V-112 STA. 292+00 CUT-IN

**CUT-IN**

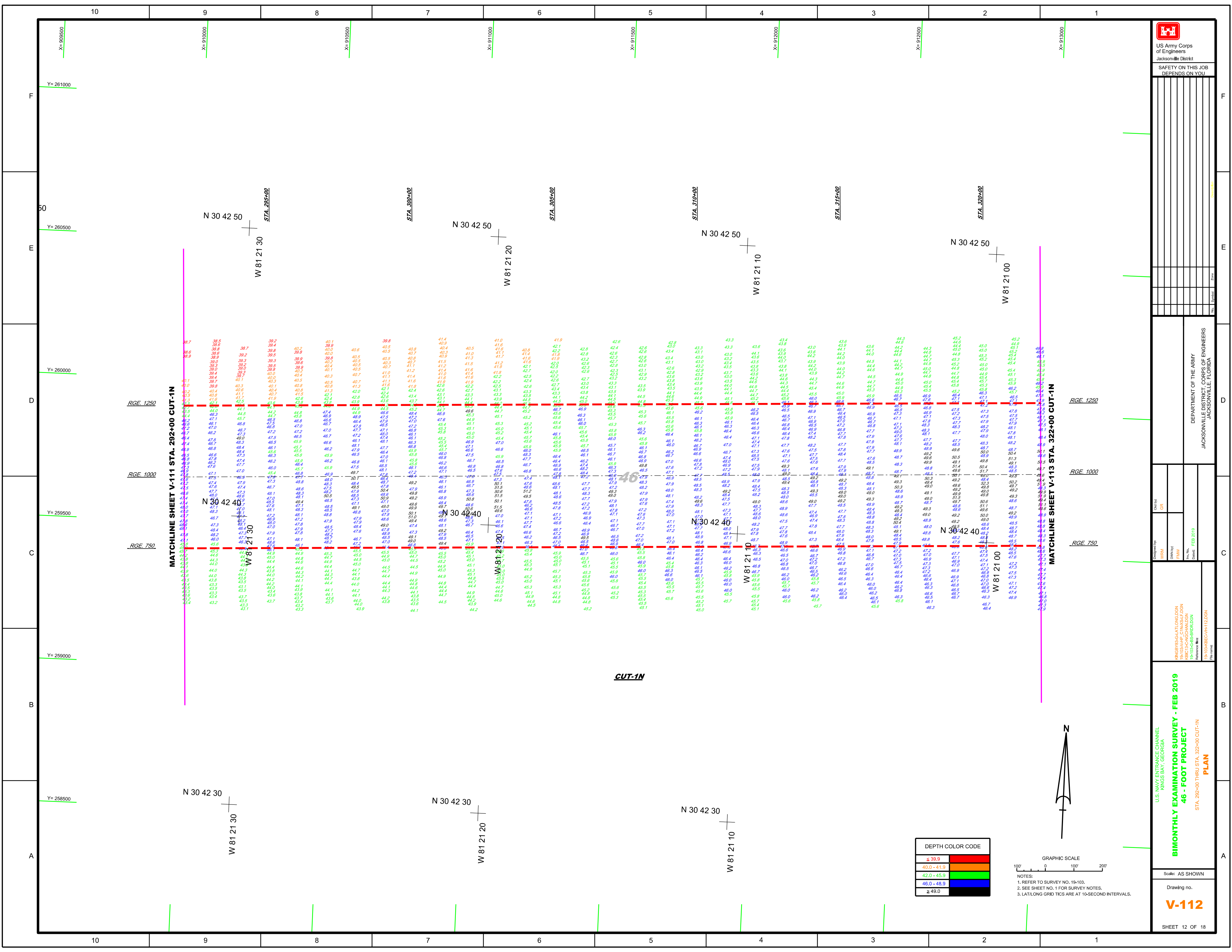
DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-10 (02/19)	909.927	259.896	30°42'43.67"	81°21'32.91"
LT. BUOY-11 (02/19)	909.980	259.406	30°42'38.81"	81°21'32.34"



NOTES:  
1. REFER TO SURVEY NO. 10-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.





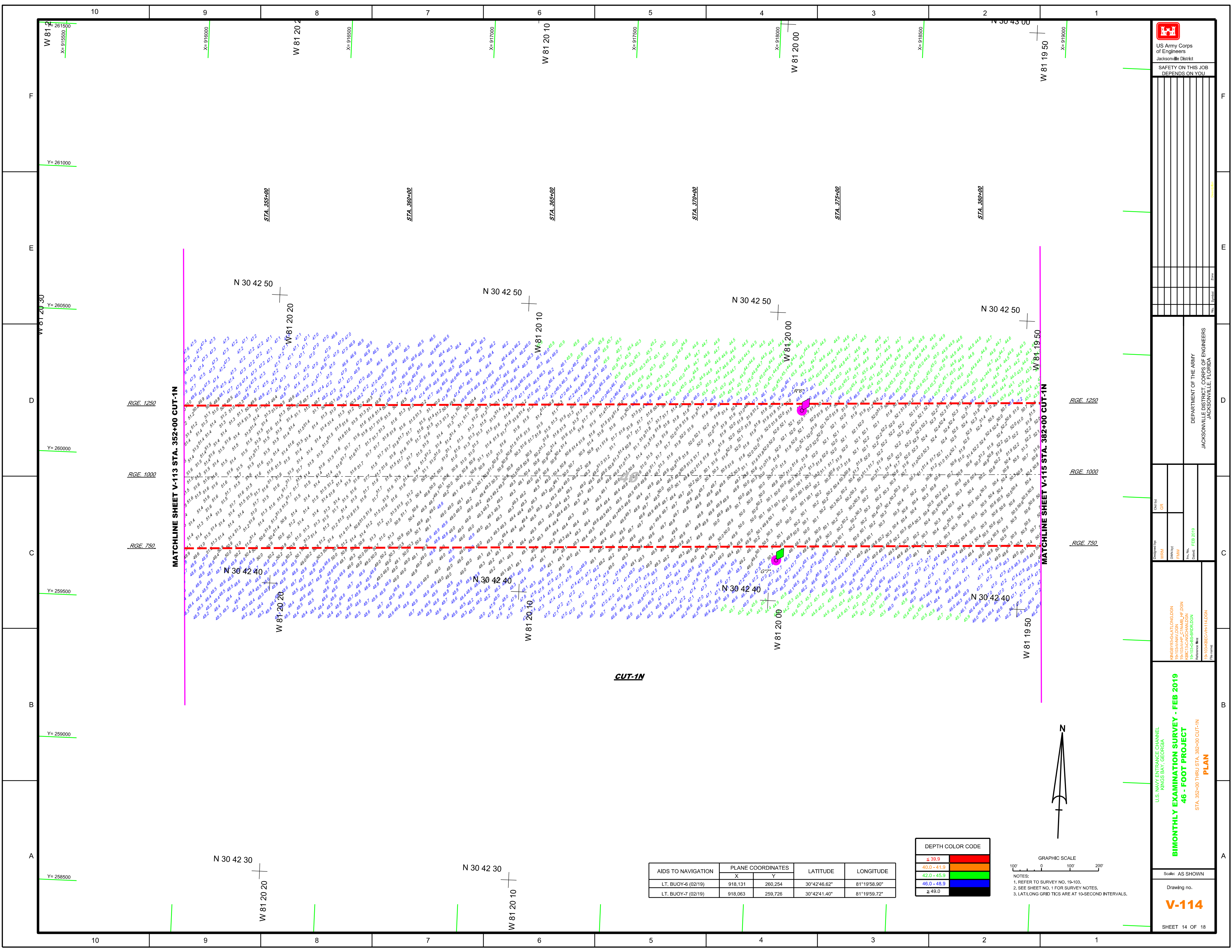
DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 43.9	Yellow
44.0 - 45.9	Green
46.0 - 47.9	Blue
≥ 48.0	Black



NOTES:  
1. REFER TO SURVEY NO. 19-103.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.







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Department of the Army  
 Jacksonville District, Corps of Engineers  
 Jacksonville, Florida

U.S. NAVY ENTRANCE CHANNEL  
 KINGS BAY, GEORGIA  
**BIMONTHLY EXAMINATION SURVEY - FEB 2019**  
**46 - FOOT PROJECT**  
 STA. 352+00 THRU STA. 382+00 CUT-IN  
**PLAN**

**DEPTH COLOR CODE**

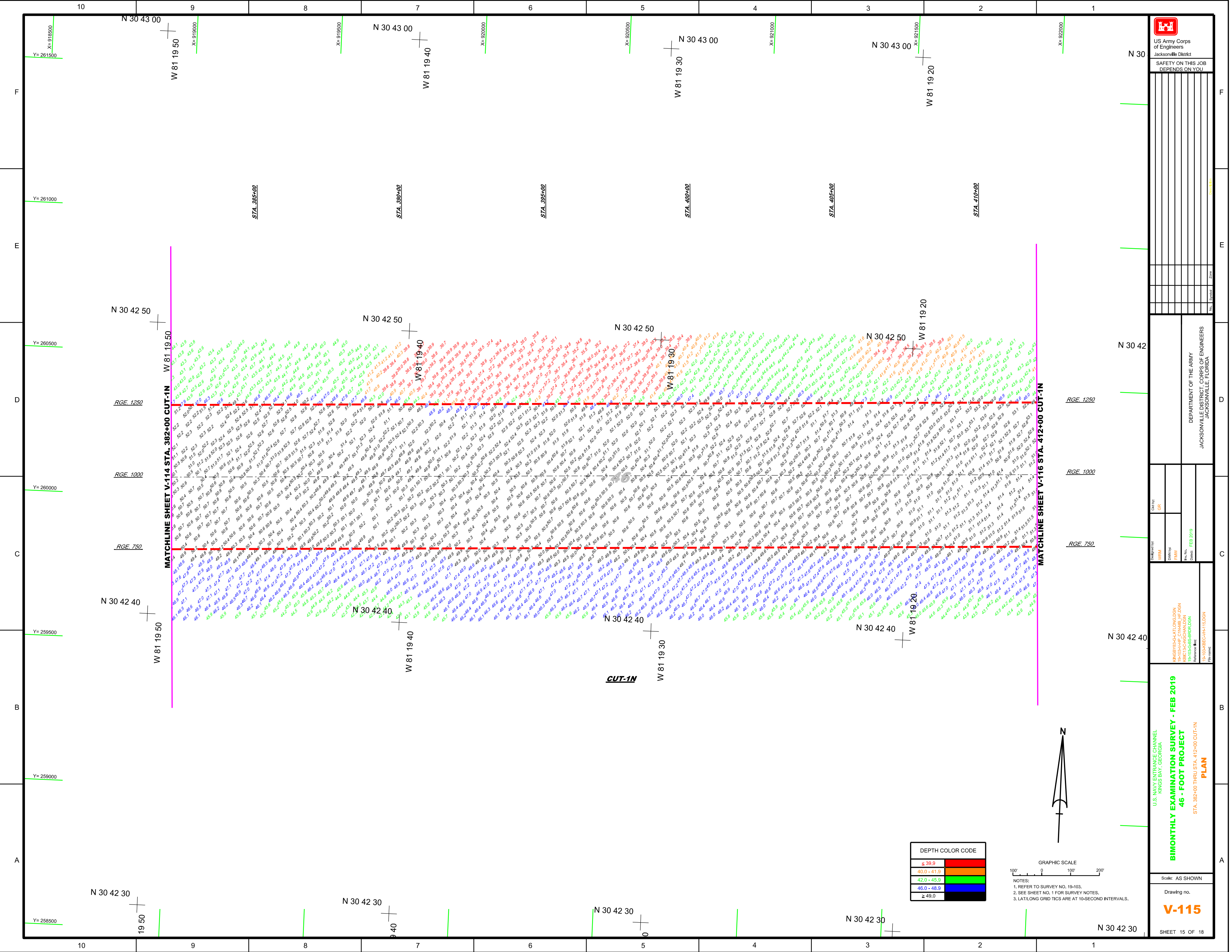
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue


**AIDS TO NAVIGATION**

	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT. BUOY-6 (02/19)	918,131	260,254	30°42'46.62"	81°19'58.90"
LT. BUOY-7 (02/19)	918,063	259,726	30°42'41.40"	81°19'59.72"

GRAPHIC SCALE  
 100' 0 100' 200'  
 NOTES:  
 1. REFER TO SURVEY NO. 19-103.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.







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Jacksonville District

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DESIGNED BY: **WJH**

DRAWN BY: **FWH**

DATE: **FEB 2019**

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PROJECT: **BIMONTHLY EXAMINATION SURVEY - FEB 2019**

PROJECT: **46 - FOOT PROJECT**

PROJECT: **STA. 382+00 THRU STA. 412+00 CUT-IN**

PROJECT: **PLAN**

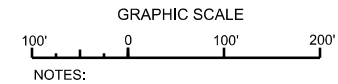
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SCALE: AS SHOWN

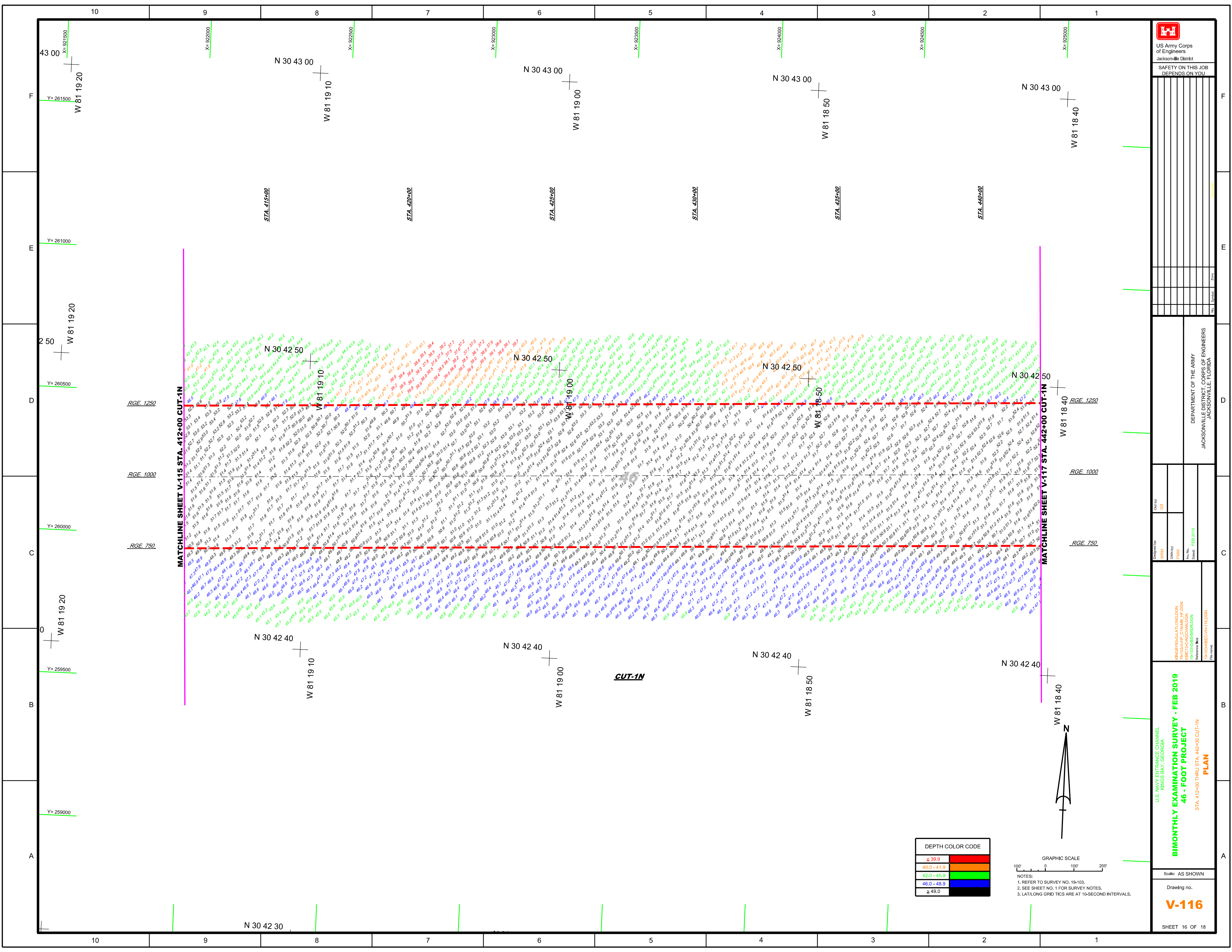
DRAWING NO. **V-115**

SHEET 15 OF 18

DEPTH COLOR CODE	
≤ 39.9	
40.0 - 41.9	
42.0 - 45.9	
46.0 - 48.9	
≥ 49.0	




NOTES:  
 1. REFER TO SURVEY NO. 19-103.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
 3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.



DEPTH COLOR CODE	
≤ 39.9	Red
40.0 - 41.9	Orange
42.0 - 45.9	Yellow
46.0 - 48.9	Green
≥ 49.0	Blue

GRAPHIC SCALE  
 100' 0 100' 200'  
 NOTES:  
 1. REFER TO SURVEY NO. 19-103.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.  
 3. LAT/LONG GRID TIC'S ARE AT 10-SECOND INTERVALS.



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 DEPENDS ON YOU

<p>DESIGNED BY: WRM          CHECKED BY: GRL          DRAWN BY: FAW          DATE: FEB 2019</p>	<p>DEPARTMENT OF THE ARMY          JACKSONVILLE DISTRICT, CORPS OF ENGINEERS          JACKSONVILLE, FLORIDA</p>
<p>PROJECT: KINGSBAY ENTRANCE CHANNEL, KINGS BAY, GEORGIA          SURVEY: BIMONTHLY EXAMINATION SURVEY - FEB 2019          PROJECT: 46 - FOOT PROJECT          STA. 412+00 THRU STA. 442+00 CUT-IN          PLAN</p>	<p>Scale: AS SHOWN          Drawing no. <b>V-116</b>          SHEET 16 OF 18</p>





