

**VALUABLE**

SUBJECT

*test levels from  
MONUMENT ON Verona Loop Road  
to B.M. At Grey's Point that  
was established from  
tide level.*

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

FIELD PARTY  
*Kellom* In Charge  
*Dennis* Instrument  
Notes  
Tape Read  
*Patrick* Tape or Rod  
Tape or Rod  
Instrument No. *73654*  
Tape No.

WEATHER  
Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog  
Figured By  
Notes Checked By  
Plotted By

FILE No. *179-5*

Fldr. No.

Sheet *405*

Date *2-6-19-50*

Quad. No.

Station	Dist.	Angle " "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
B.M.						<del>32.35</del> 30.76 <i>USMC MONUMENT #47</i>
			4.76	37.11		32.35
T.P.					3.03	34.08
			4.34	38.40		30.74
					3.45	34.95
			4.65	39.60		1.59
T.P.					1.84	34.76
			3.77	38.53		
T.P.					4.24	34.29
			1.84	36.11		
T.P.					2.89	33.23
			3.70	36.93		
T.P.					6.10	30.83
			4.76	35.59		
T.P.					3.67	31.92
			4.60	36.54		
T.P.					6.83	29.69
			5.65	35.34		
T.B.M.					3.61	31.73
			2.06	33.79		
T.P.					5.93	27.81
			1.08	28.89		
T.P.					12.54	16.35
			10.14	26.49		
T.P.					0.78	25.71
			4.61	30.32		
T.P.					4.49	25.83
			4.44	30.27		
T.P.					4.36	25.91
			4.54	30.43		

VALUABLE

SUBJECT

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

Station Post Office  
Miles Ver and Elston  
GEARING

FIELD PARTY  
in groups  
Assignment  
Notes  
Tap Date  
Type of Rod  
Type of Rod  
Instrument No.  
Date

WEATHER  
Clear  
Cloudy  
Windy  
Rain  
Snow  
Fog  
Light  
Thunder  
Other

FILE NO.  
Date  
Sheet



VALUABLE

SUBJECT

test levels cont'd.

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

## FIELD PARTY

\_\_\_\_\_ In Charge  
\_\_\_\_\_ Instrument  
\_\_\_\_\_ Notes  
\_\_\_\_\_ Tape Read  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Instrument No.  
\_\_\_\_\_ Tape No.

## WEATHER

Clear \_\_\_\_\_  
Cloudy \_\_\_\_\_  
Windy \_\_\_\_\_  
Rain \_\_\_\_\_  
Fair \_\_\_\_\_

Snow \_\_\_\_\_  
Hot \_\_\_\_\_  
Moderate \_\_\_\_\_  
Cold \_\_\_\_\_  
Fog \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

2 of

Date

9-6-1950

Figured By \_\_\_\_\_

Notes Checked By \_\_\_\_\_

Plotted By \_\_\_\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
				30.43		
T.P.					2.44	27.99
		5.91		33.90		
T.P.					7.02	26.88
		4.11		30.99		
T.P.					4.01	26.98
		3.55		30.53		
T.P.					6.62	23.91
		5.58		29.49		
T.P.					4.80	24.69
		4.71		29.40		
T.P.					3.15	26.25
		4.20		30.45		
T.P.					4.90	25.55
		3.57		29.14		
T.P.					3.93	25.19
		2.05		27.24		
T.P.					12.81	14.43
		0.38		14.81		
T.P.					6.51	8.30
		1.60		9.90		
B.M.					2.10	7.80
					-	1.59
						6.21

Spice in water at w/ watershed  
 grey point leveling  
 (6.00) Established by Water Level from French Creek across  
 New River







VALUABLE

SUBJECT

check levels to

MONUMENT # 47

Verona Loop Road

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

## FIELD PARTY

Kellum  
In Charge  
Instrument  
Notes  
Tape Read  
Tape or Rod  
Tape or Rod  
Instrument No.  
Tape No.

## WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

1-0 f.

Date

9-7-19 50

Figured By \_\_\_\_\_

Notes Checked By \_\_\_\_\_

Plotted By \_\_\_\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation	
B.M. # 735						49.48	spike in base of 14" pine (now dead) 80' left of sta. 185 + 35 ON Verona Loop Road.
T.P.	6.01	55.49	✓			50.82	.004
T.P.	3.59	51.41	✓			49.69	.008
T.P.	3.16	52.85	✓			46.48	.012
T.P.	0.70	47.18	✓			39.87	.016
Mon. # 46	2.28	42.15	✓			34.50	.020
T.P.	5.41	39.91	✓			34.89	.024
T.P.	3.15	38.04	✓			34.29	.028
Mon. # 47	3.19	35.48	✓			30.72	.032
T.P.	4.77	35.50	✓			34.26	.036
T.P.	5.83	38.09	✓			34.99	.040
Mon. # 46	4.82	39.81	✓			34.40	.044
T.P.	7.36	41.86	✓			40.72	.048
T.P.	7.76	48.51	✓			47.94	.052
T.P.	5.16	53.10	✓			50.26	.056
T.P.	5.07	55.33	✓			49.42	.060

34.525

32.355

15 160  
0.004

49.48

VALUABLE

SUBJECT

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

FIRE PARTY

WEATHER

in Charge  
Instruments  
Notes  
Type of Land  
Type of Wood  
Type of Road  
District No.  
Type No.

Clouds  
Moisture  
Rain  
Wind  
Fog  
Fogged By  
Notes Checked By  
Checked By

FIRE No.

Dist. No.

Sheet

Date

Time

Station

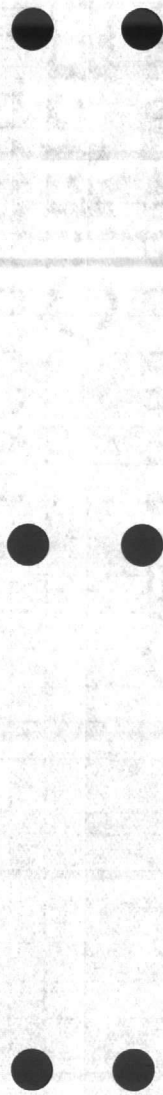
Date

Name

H.I.

Vertical

Level



VALUABLE

SUBJECT

Trangulation  
 Gray Point - West Side of New River

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY

Dillon In Charge

Hamilton Instrument

Notes

Tape Read

Tape or Rod

Tape or Rod

Instrument No.

Tape No.

WEATHER

Clear

Cloudy

Windy

Rain

Fair

Snow

Hot

Moderate

Cold

Fog

FILE No.

179-5

Fldr. No.

Sheet

# 1 of

Date

8/12 1950

Quad. No.

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	---------	---	---------------	-----------------	-----------

① "Hines"  $\triangle$

24° 09' 15" ①
144° 56' 15" ②
24° 09' 22.5" (M) ✓
6.5"
24° 09' 16.0"

② Gray Point  $\odot$

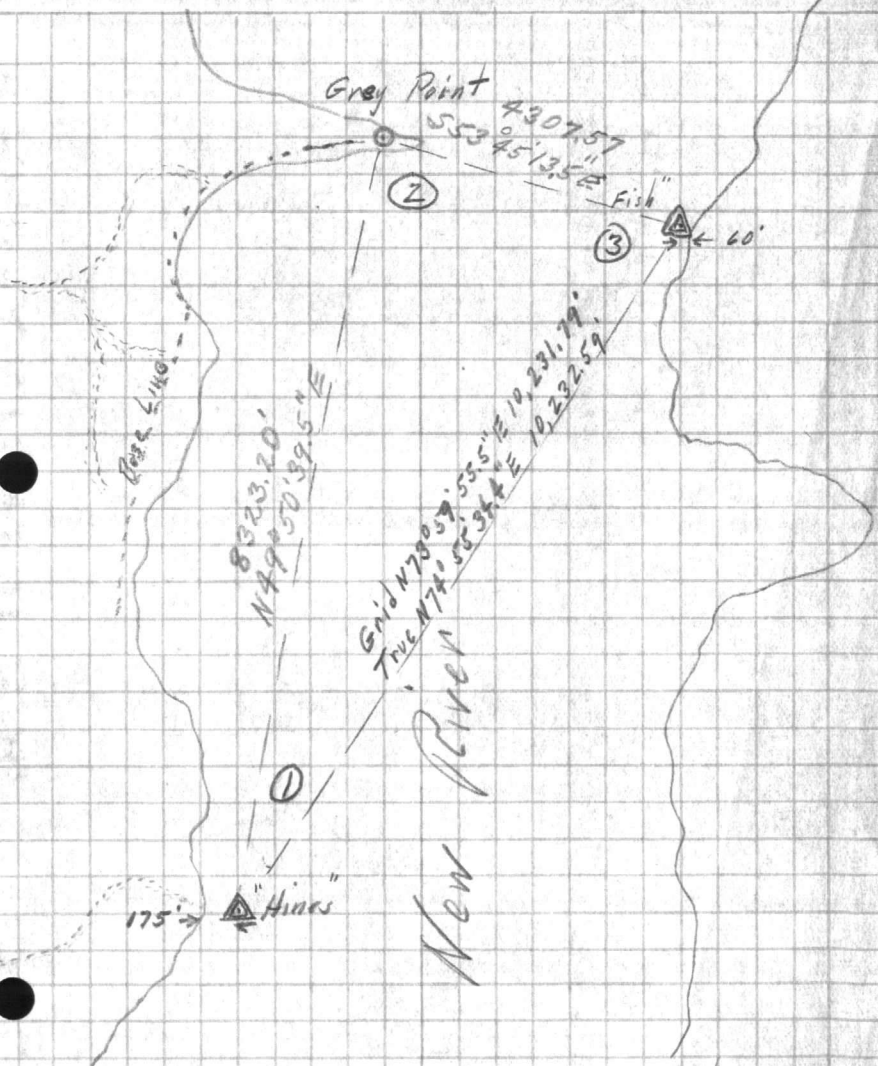
103° 35' 45" ①	103° 36' 00" ①
261° 36' 00" ②	310° 47' 30" ③
103° 36' 00" (M) ✓	103° 35' 50" (M)
7"	261° 36' 00" ④
103° 35' 53"	103° 36' 00" (M) ✓

③ "Fish"  $\triangle$

52° 15' 00" ①
313° 29' 45" ②
52° 14' 57.5" (M)
6.5"
52° 14' 51.0"

24-09-22.5
103-36-00
52-14-57.5
180°-00'-20.0"
6.67"

24-09-16
103-35-53
52-14-51
180°00'00"







VALUABLE

SUBJECT

traverse at grey's point  
to fire base line

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

FIELD PARTY

*Kellum*  
In Charge  
Instrument  
Notes  
Tape Read  
Tape or Rod  
Tape or Rod  
Instrument No.  
Tape No.

WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog  
Figured By  
Notes Checked By  
Plotted By

FILE No.

Fldr. No.

Sheet

Date

107  
8-12 1920

Quad. No.

P.I. 2+99.91

Station	Dist.	Angle "	+	H. I. Bearing	Ver. Ang. Diff.	Elevation
---------	-------	---------	---	---------------	-----------------	-----------

P.O.T. 2+99.91


P.I. #4  
1-203°52'45"  
2-279.33 3-251°39'00"  
Mean-203°52'40"

P.I. #3  
1-160°34'15"  
2-114.45 3-121°36'30"  
Mean-160°34'10"

P.I. #2  
1-153°14'00"  
2-57.12 3-97°41'30"  
Mean-153°13'50"

P.I. #1  
1-180°57'30"  
2-159.40 3-180°57'30"  
Mean-180°57'30"

1-134°29'45" — 134°30'15"  
2-269-00-00  
M-134°30'00"

Grey Point — Iron Pin — 2' above ground on Sand Point, 200' from shore.  
Back Sight — "Fish" 

P.I. #A = 0+00 Base line

Base line



New Point 1920  
U.S.E.A.  
grey Pt.

VALUABLE  
Return to  
Public Works  
Office  
Camp Station  
North Station

SUBJECT

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Station Date Angle  
M.V. Verrill Station  
Boating Co.

W.C. PARTY

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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WEATHER

Clear  
Hot  
Moderate  
Cold  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FIELD NO.

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_



VALUABLE

SUBJECT

grey's point  
traverse contd.

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

FIELD PARTY

\_\_\_\_\_ In Charge  
\_\_\_\_\_ Instrument  
\_\_\_\_\_ Notes  
\_\_\_\_\_ Tape Read  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Instrument No.  
\_\_\_\_\_ Tape No.

WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

Date

19

Figured By \_\_\_\_\_  
Notes Checked By \_\_\_\_\_  
Plotted By \_\_\_\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	°	Angle	"	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	---	-------	---	---	------------------	--------------------	-----------

P.I. 2+99.91 1-179° 47' 30"  
2-179° 24' 00"  
11024 179° 47' 30"

P.I. 2+99.91

Base  
1/11/8

TABLE

SUBJECT

Return to  
Public Works  
Office  
Cairo Station  
Washington

WEATHER  
Clear  
Snow  
Cloudy  
Fog  
Mist  
Rain  
Thunder  
Hail  
Ice  
Other

FILE NO.  
DATE  
TIME  
PLACE

Station  
Date  
Angle  
Reading  
Miles  
Direction

RECORDED  
INDEXED

VALUABLE

SUBJECT \_\_\_\_\_

Return To \_\_\_\_\_  
 Public Works Office \_\_\_\_\_  
 Camp Lejeune \_\_\_\_\_  
 North Carolina \_\_\_\_\_

FIELD PARTY

\_\_\_\_\_ In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

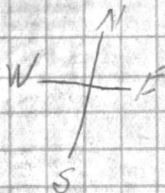
Figured By \_\_\_\_\_ Sheet \_\_\_\_\_

Notes Checked By \_\_\_\_\_

Plotted By \_\_\_\_\_ Date \_\_\_\_\_ 19\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	---------	---	---------------	-----------------	-----------



179-59-60  
 178-56-55  
 1-03-05

P.I. #8 1-181° 10' 30"  
 1784.09 3-183° 32' 30"  
 N.P. 181° 10' 50"

P.I. #7 1-111° 14' 30"  
 7497.22 3-333° 43' 00"  
 N.P. 111° 14' 28"

P.I. #6 1-178° 57' 00"  
 3-176° 50' 45"  
 N.P. 178° 56' 55"

5-59-08-16 W ✓  
 1-03-05 ✓  
 5-58-05-11 W ✓  
 68-45-42 ✓  
 5-10-40-29 E ✓  
 1-10-50  
 5-8-29-39 E ✓



A- 3.878  
B- 3.873  
0.005

A- 3.948

B- 3.784

STATIONARY  
GIVE  
CABLES

Station

Dist.

Baromet.

Alt. Diff.

Remarks

North direction  
Conting to point

Office

Latitude

Longitude

Time

Observer

Temp. of Air

Temp. of Water

Temp. of Soil

Temp. of Dew

Wind

Direction

Force

Pressure

Humidity

Clouds

Quantity

Direction

Force

State

Light

Direction

Force

State

Color

Wind

Direction

Force

Pressure

Humidity

Wind

Direction

Force

State

Color

VALUABLE

SUBJECT

Establish Bench mark  
from water level at  
grey's point on west shore  
of New River.

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

## FIELD PARTY

Kellom In Charge

Instrument

Notes

Tape Read

Tape or Rod

Tape or Rod

Instrument No.

Tape No.

## WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fair

Snow  
Hot  
Moderate  
Cold  
Fog

Figured By

Notes Checked By

Plotted By

FILE No.

Fldr. No.

Sheet

Date

19 50

Quad. No.

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	---------	---	------------------	--------------------	-----------

B.M.

6.00

2.285

T.P.

6.745 8.285

A.46 1.54

6.015 6.00 5.89 0.125

6.015 5.91 0.105

5.98 5.92 0.06

T.P.

3/18.010

6.001

4.03

5.885

B.M.

1.85

Spike in prominent root of 40" live oak tree, root leads off towards River shore from base of tree, spike is 4' from base of tree, tree is on east side of trail at River shore approx. 600' west from Grey's point proper.

water level at 2:30 P.M.

water level at 2:45 P.M.

D.S.T.

water level at 3:00 P.M.

(initial)

VALUABLE

SUBJECT

Return to  
Public Works  
Office  
Camp Postline  
Indian Gardens

Station

HM  
CAMP

Vol. 423  
Elevation  
C.R.

FIELD PARTY

Lead Name

Lead No.

Altitude

Time of Day

Time of Day

Time of Day

Time of Day

Time of Day

WEATHER

Clear

Cloudy

Rain

Snow

Other

Other

Other

Other

FIELD No.

FIELD No.

FIELD No.

FIELD No.

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FIELD No.



VALUABLE

SUBJECT

Water Level Shots

Taken on New River

Tie Made to Mon. 186

Return To  
Public Works  
Office  
Camp LeJeune  
North CarolinaFIELD PARTY  
Gerner In Charge  
Instrument  
Notes  
Tape Read  
Tape or Rod  
Tape or Rod  
Instrument No.  
Tape No.WEATHER  
Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

10P1

Date

8-11 1950

Quad. No. \_\_\_\_\_

Station	Dist.	Angle "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
Mon. 186		009		2384		2375
TP					1301	1083
		097		1180		
TP					1027	153
		415		5.67 5.68		
Water shots					5355	0325
					5375	0305
					542	026
					224	344
TP						
		1069		1413		
					061	1352
		1095		2447		
					070	2377

0.125

Time 1430

" 1445

" 1500

Mon. 186

AVAILABLE  
Return To  
Public Works  
Office  
Camp Cassino  
North Carolina

SUBJECT

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FIELD PARTY

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WEATHER

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FIELD NO.

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Station \_\_\_\_\_

Angle \_\_\_\_\_

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NOV 1950

PUBLIC WORKS DEPARTMENT  
Camp Lejeune, North Carolina  
Survey Department

File 179-5  
Quadrangle 179  
Date 8/14/50  
Sheet #1 of 1

Traverse Computation  
Description

*Triangulation and Traverse for Camp + Beach + Grey Point, West Side of New River*

Station	Distance	Bearing	Cosine	Sine	Latitude	Departure	Y Coordinate North	X Coordinate East
"Hines" $\Delta$		N73°59'55.5"E To "Fish" 1					317,702.75	2,483,499.72
Grey Point $\odot$	8323.20'	N49-50-39.5E	64486687	76429492	5367.36	6361.38	323,070.11	2,489,861.10
"Fish" $\Delta$		S73°59'55.5"W To "Hines"					320,523.30	2,493,335.10
Grey Point $\odot$	4307.57	N53-45-13.5W	59125686	8064833	2546.88	3473.98	323,070.18	2,489,861.12
$\odot$ Grey Point-Iron Pin						Mean	323,070.15	2,489,861.11
P.I. #1	252.40	S80-44-46.5W	160807	986986	40.59	249.12	323,029.56	2,489,611.99
P.I. #2	357.12	S81-42-16.5W	144277	989537	51.52	353.38	322,978.04	2,489,258.61
P.I. #3	214.45	S54-56-06.5W	574503	818502	123.20	175.53	322,854.84	2,489,083.08
P.I. #4 = 0+00 Base Line	579.33	S35-28-16.5W	814407	580294	471.81	336.18	322,383.03	2,488,746.90
P.I. #5 = 2+99.91	299.91	S59-20-56.5W	509807	860289	152.90	258.01	322,230.13	2,488,488.89
Line Ahead	2000'	S59-08-16.5W	572973	858404	1025.95	1716.81	321,204.18	2,486,772.08
P.I. #6 = 6+52	652'	S59-08-16W	572973	858404	339.46	559.68	321,895.67	2,487,929.21
P.I. #7	497.22'	S58-05-11W	15286	84883	262.83	422.06	321,632.91	2,487,507.15
P.I. #8	124.09'	S11-40-29E	9897	1851	21.95	22.95	321,510.90	2,487,530.10
P.I. #9 on river shore	65.00'	S8-42-39E	9890	1478	64.28	9.61	321,446.69	2,487,539.75
P.I. #2		N81-42-16E to P.I. #1					322,978.04	2,489,258.61
Center Pier	82'	"	144277	989537	11.83	81.14	322,989.87	2,489,339.75
Beginning of Pier 0+00	78'	N36-17-44W	805974	591951	6287	46.17	323,052.74	2,489,293.58
End of Pier	496'	S36-17-44E	"	"	399.76	293.61	322,590.11	2,489,633.36

Approx.



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