

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



TRAFFIC DATA

| | |
|---|------|
| Current (2020) AADT | 8570 |
| Future (2040) AADT | 9430 |
| DHV - % of AADT | 10 |
| Design Hour Volume | 943 |
| Heavy Trucks (% of AADT) | 9 |
| Heavy Trucks (% of DHV) | 4 |
| Directional Distribution (% of DHV) | 56 |
| 18 kip Equivalent P 2.0 | 579 |
| 18 kip Equivalent P 2.5 | 551 |
| Design Speed (mph) | 55 |

MATERIALS

Concrete Class "A"

BASIC DESIGN STRESSES

Concrete f 'c = 4000 psi

LIST OF DRAWINGS

| | |
|---|---|
| Title Sheet | 1 |
| Estimated Quantities and General Construction Notes | 2 |
| General Plan | 3 |
| Profile | 4 |
| Pier Elevation and Notes | 5 |

WARREN KNOX COUNTY JAMES ANDREW GRIFFITH BRIDGE OVER ST. GEORGE RIVER US ROUTE 1 FEDERAL PROJECT NO. 2361900 BRIDGE NO. 2786

UTILITIES

Central Maine Power
Consolidated Communications
Charter Communications Inc.
Maine Water Company

MAINTENANCE OF TRAFFIC

Daily lane shifts to maintain two-way traffic with two 12 ft lanes for one construction season.

| | |
|-------------------------|--|
| <u>PROJECT LOCATION</u> | James Andrew Griffith Bridge # 2786 over the St. George River located on the Warren/Thomaston town line. Lat./Long. 44°04'43" N 69°13'09" W |
| <u>PROGRAM AREA</u> | Highway Bridge - Traditional |
| <u>OUTLINE OF WORK</u> | Bridge Substructure Rehabilitation |

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| STATE OF MAINE DEPARTMENT OF TRANSPORTATION |
| APPROVED |
| DATE |
| COMMISSIONER: <i>[Signature]</i> |
| CHIEF ENGINEER: <i>[Signature]</i> |
| 9-16-22 9/16/2022 |

| |
|--|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION |
| PROFESSIONAL ENGINEER |
| GARRETT A. GUSTAFSON 13553 |
| SIGNATURE |
| P.E. NUMBER |
| DATE |
| 9-9-22 |

| |
|-------------------------|
| PROJECT INFORMATION |
| PROGRAM |
| PROJECT MANAGER |
| DESIGNER |
| CONSULTANT |
| PROJECT RESIDENT |
| CONTRACTOR |
| PROJECT COMPLETION DATE |
| BRIDGE |
| M. KERBERGEN |
| G. GUSTAFSON |

| |
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| WARREN JAMES ANDREW GRIFFITH BRIDGE |
| TITLE SHEET |

| |
|--------------|
| SHEET NUMBER |
| 1 |
| OF 5 |

WIN 023619.00

2361900

Filename: \\00\BRIDGE\MSTA\001_Title.dgn
Division: BRIDGE
Username: Mark.Poulin
Date: 9/6/2022

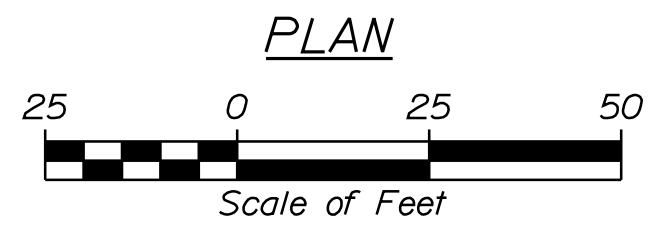
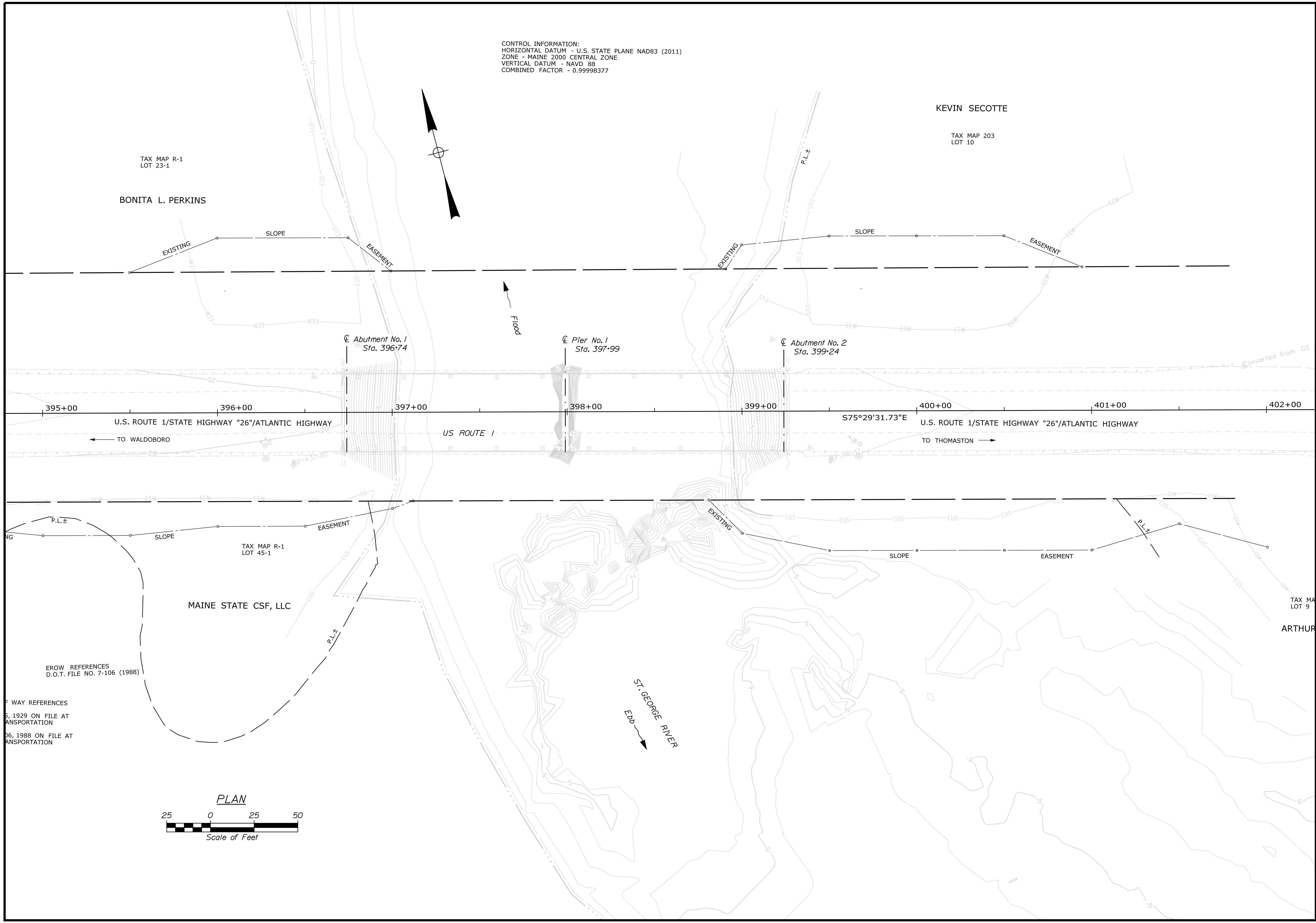
Date: 9/6/2022

Username:

Division: BRIDGE

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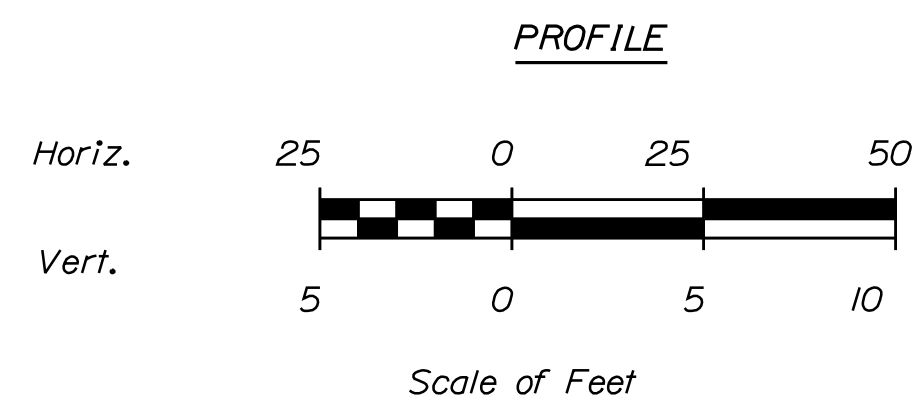
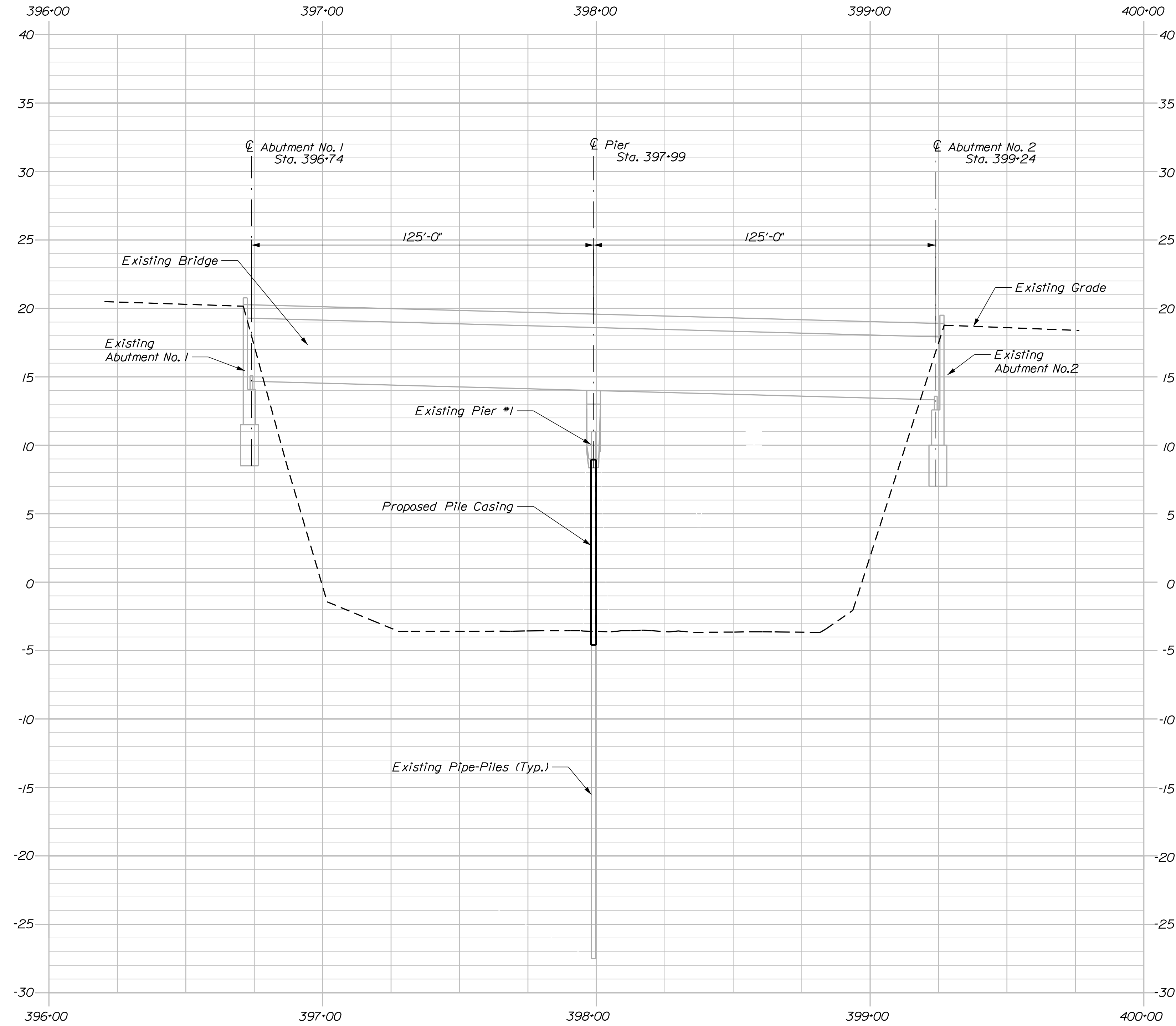
CONTROL INFORMATION:
HORIZONTAL DATUM - U.S. STATE PLANE NAD83 (2011)
ZONE - MAINE 2000 CENTRAL ZONE
VERTICAL DATUM - NAVD 88
COMBINED FACTOR - 0.99998377



EROW REFERENCES
D.O.T. FILE NO. 7-106 (1988)

PROPERTY REFERENCES
5, 1929 ON FILE AT
TRANSPORTATION
06, 1988 ON FILE AT
TRANSPORTATION

| | | | |
|--|-------------------|-----------------------------|------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 2361900 | |
| BRIDGE NO. 2786 | | WIN 023619.00 | |
| HIERARCHY PLANS | | | |
| PROJ. MANAGER M. Kerabergen | DATE 8/23/2022 | SIGNATURE | DATE |
| CHECKED-REVIEWED E. GUSTAFSON | BY J. Leovitt | | |
| DESIGN-REVIEWED M.R.P. | DATE 9/6/2022 | P.E. NUMBER | |
| DESIGN-DETAILED | | | |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |
| JAMES ANDREW GRIFFITH BRIDGE ST. GEORGE RIVER WARREN | | KNOX COUNTY GENERAL PLAN | |
| SHEET NUMBER | | 3 | |
| | | OF 5 | |



STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
2361900
 WIN
 023619.00
 BRIDGE NO. 2786
 BRIDGE PLANS

SIGNATURE
 P.E. NUMBER
 DATE

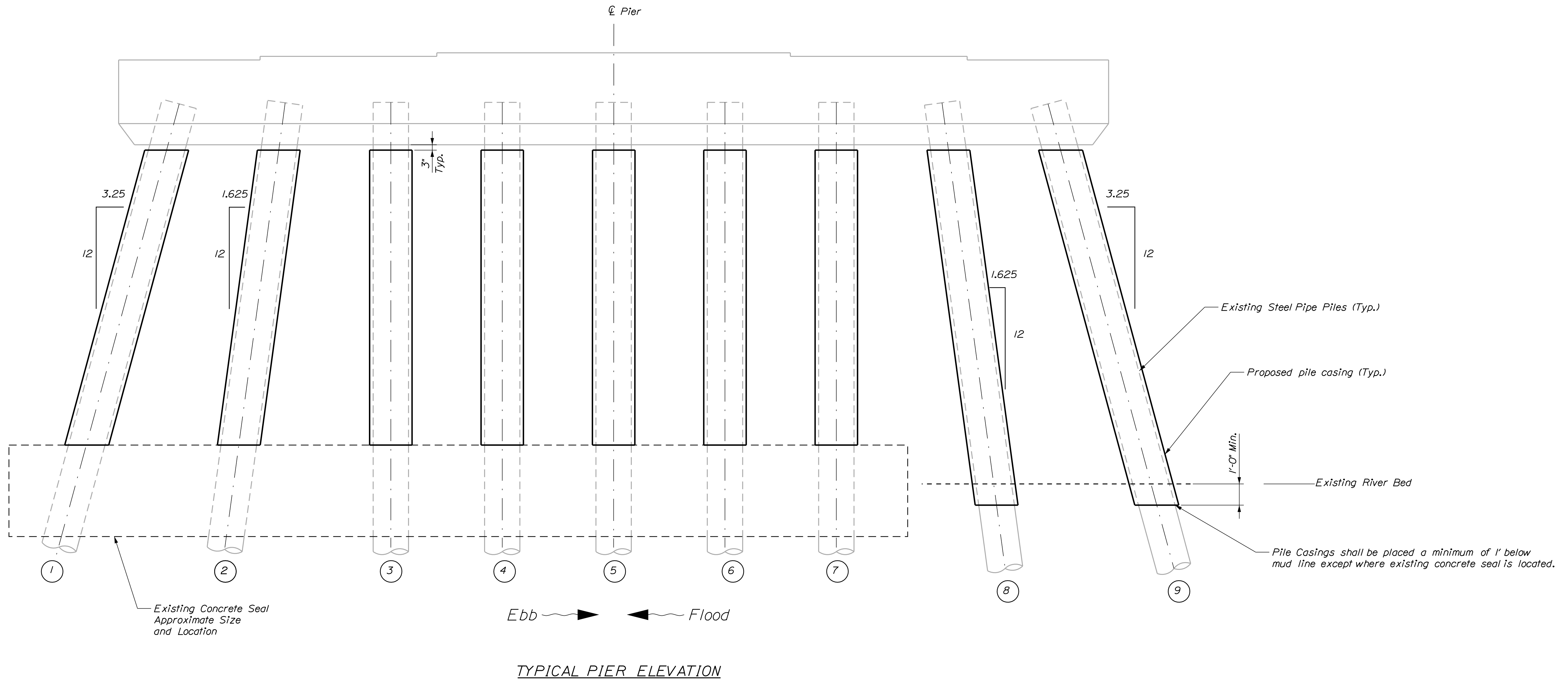
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|------------------|---------------|------|------------|
| PROJ. MANAGER | M. Kerzhirgen | DATE | 8.23.2022 |
| DESIGN DETAILED | E. JUSTAFSON | BY | J. Leovitt |
| CHECKED-REVIEWED | M.R.P. | DATE | 9.6.2022 |
| DESIGN DETAILED | | | |
| REVISIONS 1 | | | |
| REVISIONS 2 | | | |
| REVISIONS 3 | | | |
| REVISIONS 4 | | | |
| FIELD CHANGES | | | |

JAMES ANDREW GRIFFITH BRIDGE
 ST. GEORGE RIVER
 WARREN KNOX COUNTY
PROFILE

SHEET NUMBER
4
 OF 5

PILE CASING NOTE:

1. Dimensions and elevations provided are for reference only. Present conditions may vary. Please refer to the existing bridge plans and Standard Specifications Subsection 102.3, Examinations of Documents, Site and Other Information.



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|--|-----------------|--------------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | BRIDGE NO. 2786 | BRIDGE PLANS |
| 2361900 | WIN | 023619.00 |

| | | |
|---------------------------------|--------------------|-------------------|
| PROJ. MANAGER M. Kerzhnerger | BY G. JUSTAFSON | DATE 8/23/2022 |
| CHECKED-REVIEWED M.R.P. | J. Leovich | 9/6/2022 |
| DESIGN DETAILED | | SIGNATURE |
| REVISIONS 1 | | P.E. NUMBER |
| REVISIONS 2 | | DATE |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |

JAMES ANDREW GRIFFITH BRIDGE
ST. GEORGE RIVER
WARREN KNOX COUNTY
PIER ELEVATION AND NOTES

SHEET NUMBER
5
OF 5

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



LIST OF DRAWINGS

| | |
|---|---|
| Title Sheet | 1 |
| Estimated Quantities and General Construction Notes | 2 |
| General Plan | 3 |
| Profile | 4 |
| Pier Elevation and Details | 5 |

TRAFFIC DATA

| | |
|---|------|
| Current (2020) AADT | 6730 |
| Future (2040) AADT | 7400 |
| DHV - % of AADT | 12 |
| Design Hour Volume | 888 |
| Heavy Trucks (% of AADT) | 6 |
| Heavy Trucks (% of DHV) | 3 |
| Directional Distribution (% of DHV) | 60 |
| 18 kip Equivalent P 2.0 | 280 |
| 18 kip Equivalent P 2.5 | 267 |
| Design Speed (mph) | 50 |

MATERIALS

Concrete: Class "A"

BASIC DESIGN STRESSES

Concrete f 'c = 4000 psi

WARREN KNOX COUNTY ST. GEORGE RIVER BRIDGE OVER ST. GEORGE RIVER STATE ROUTE 90 (CAMDEN ROAD) FEDERAL PROJECT NO. 2364900 BRIDGE NO. 5654

UTILITIES

Central Maine Power Company
Charter Communications, Inc.
Maine Fiber Company
Warren Telephone Company (TDS of Maine)

MAINTENANCE OF TRAFFIC

Daily lane closures to maintain alternating one -way traffic.
Two way traffic will be maintained during non working hours.

| | |
|-------------------------|--|
| <u>PROJECT LOCATION</u> | St. George River Bridge # 5654 over ST. George River. Located 0.04 of a mile Southwest of Conary Lane. Lat./Long. 44°07'22" N 69°14'39" W |
| <u>PROGRAM AREA</u> | Highway Bridge Traditional |
| <u>OUTLINE OF WORK</u> | Bridge Substructure Rehabilitation |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED: *[Signature]*
DATE: 7-16-22
COMMISSIONER: *[Signature]*
CHIEF ENGINEER: *[Signature]*

STATE OF MAINE
PROFESSIONAL ENGINEER
GARRETT GUSTAFSON
LICENSE NO. 13863
SIGNATURE: *[Signature]*
P.E. NUMBER: 13553
DATE: 7-9-22

| PROJECT INFORMATION | |
|-------------------------|---------------|
| PROGRAM | BRIDGE |
| PROJECT MANAGER | M. KERSBERGEN |
| DESIGNER | G. GUSTAFSON |
| CONSULTANT | |
| PROJECT RESIDENT | |
| CONTRACTOR | |
| PROJECT COMPLETION DATE | |

2364900
WARREN
ST. GEORGE RIVER BRIDGE
TITLE SHEET

SHEET NUMBER
1
OF 5

Filename: \\00\BRIDGE\MSTA\001_TITILE.dgn
Division: BRIDGE
Username: Mark.Poulin
Date: 9/8/2022

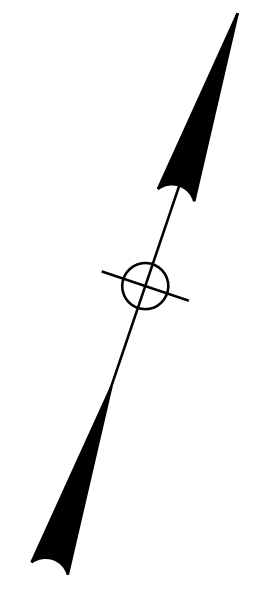
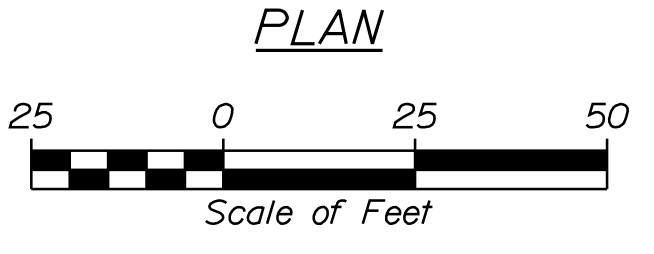
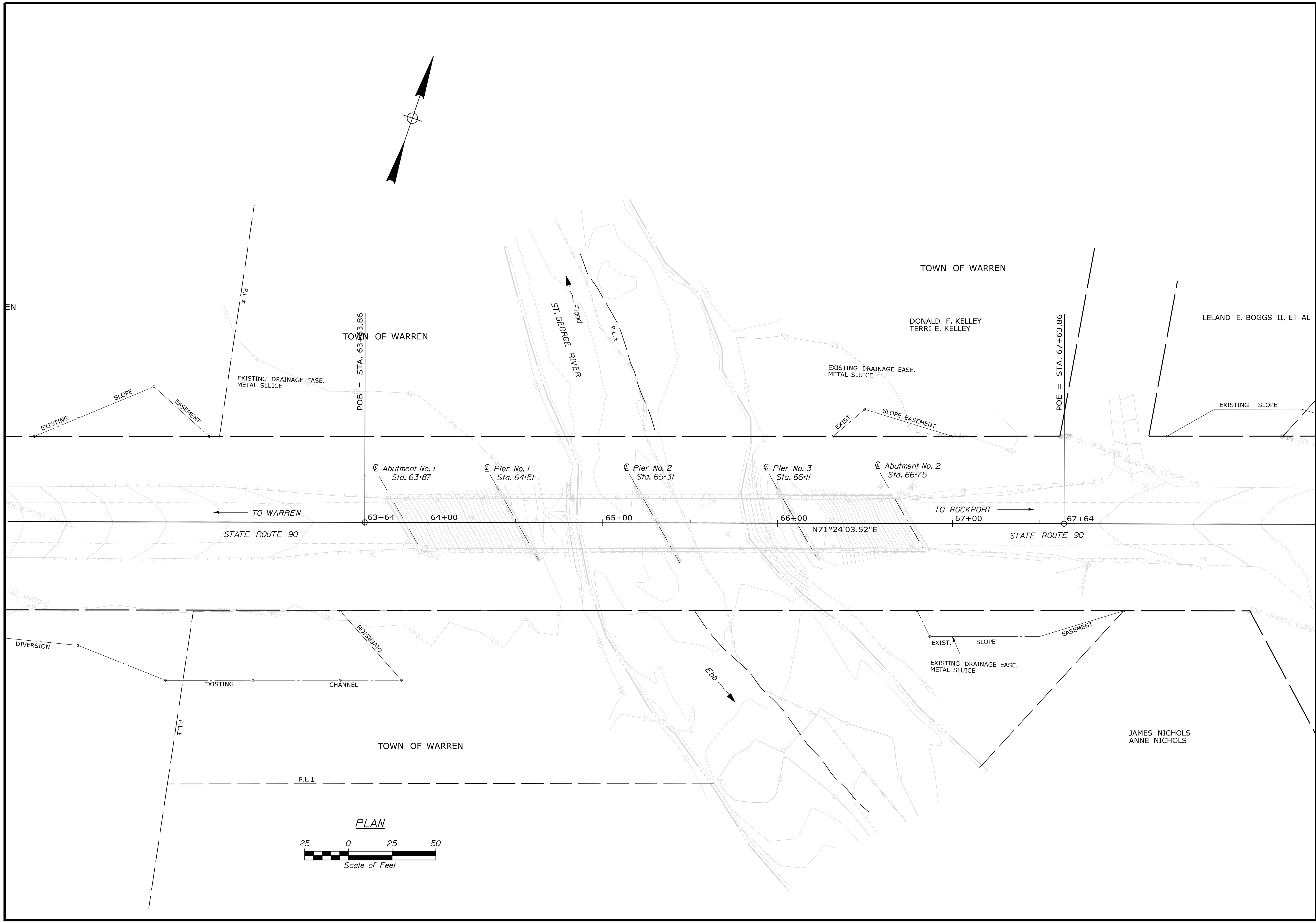
WIN 023649.00

Date: 9/8/2022

Username: Mark.Poulin

Division: BRIDGE

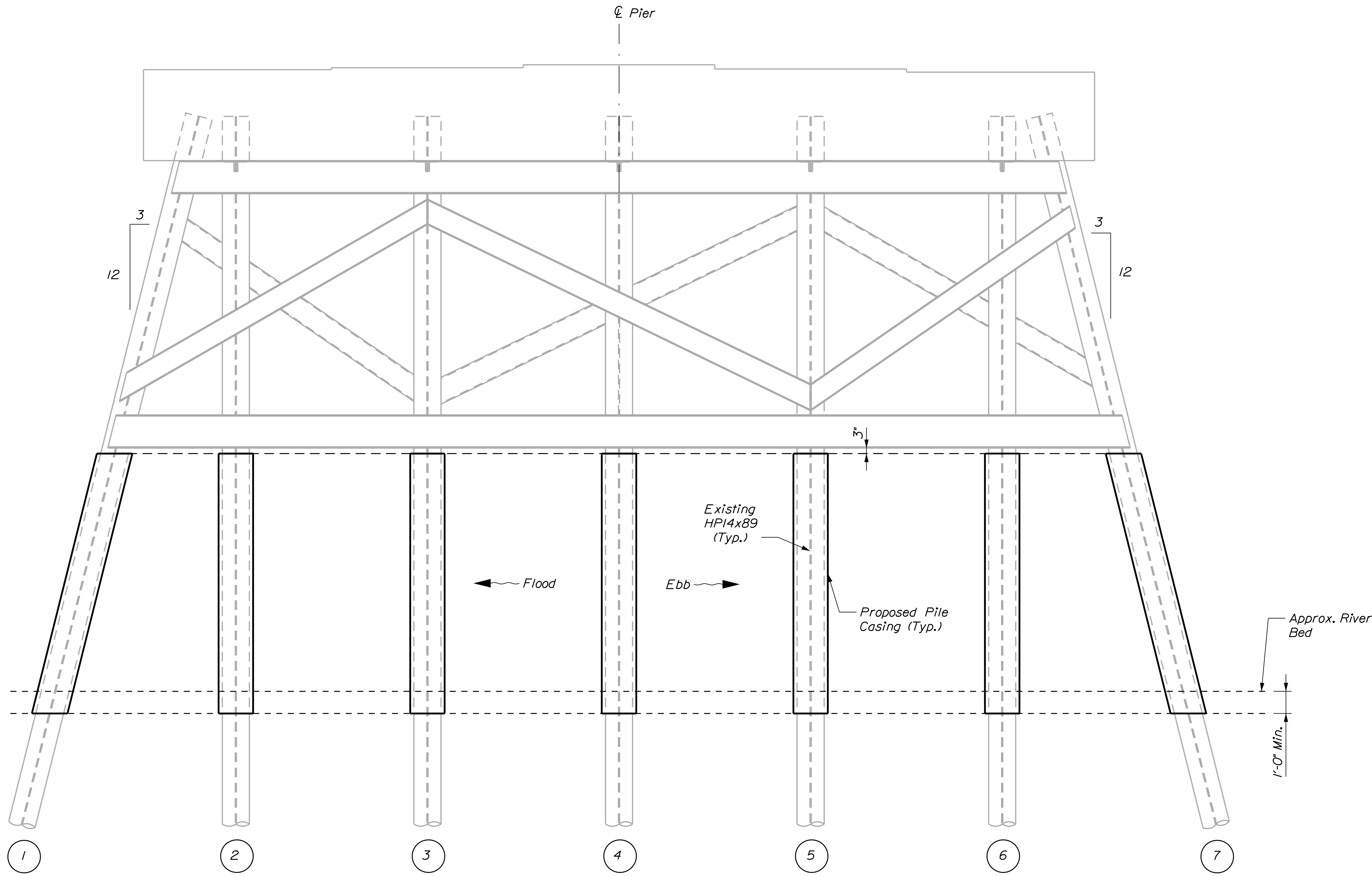
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| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 2364900 |
| WARREN | | BRIDGE NO. 6654 |
| ST. GEORGE RIVER BRIDGE ST. GEORGE RIVER | | WIN 023649.00 |
| KNOX COUNTY | | BRIDGE PLANS |
| GENERAL PLAN | | |
| SHEET NUMBER | | |
| 3 | | |
| OF 5 | | |

| PROJ. MANAGER | BY | DATE |
|------------------|------------|-----------|
| M. Kerabergen | J. Leovich | 8/23/2022 |
| CHECKED-REVIEWED | | 9/6/2022 |
| DESIGN-REVIEWED | | |
| DESIGN-DETAILED | | |
| REVISIONS 1 | | |
| REVISIONS 2 | | |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |

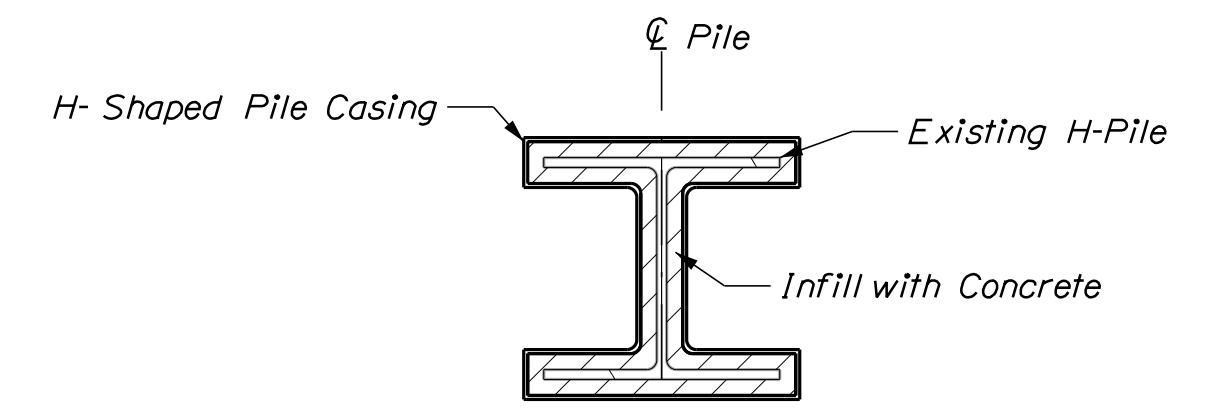
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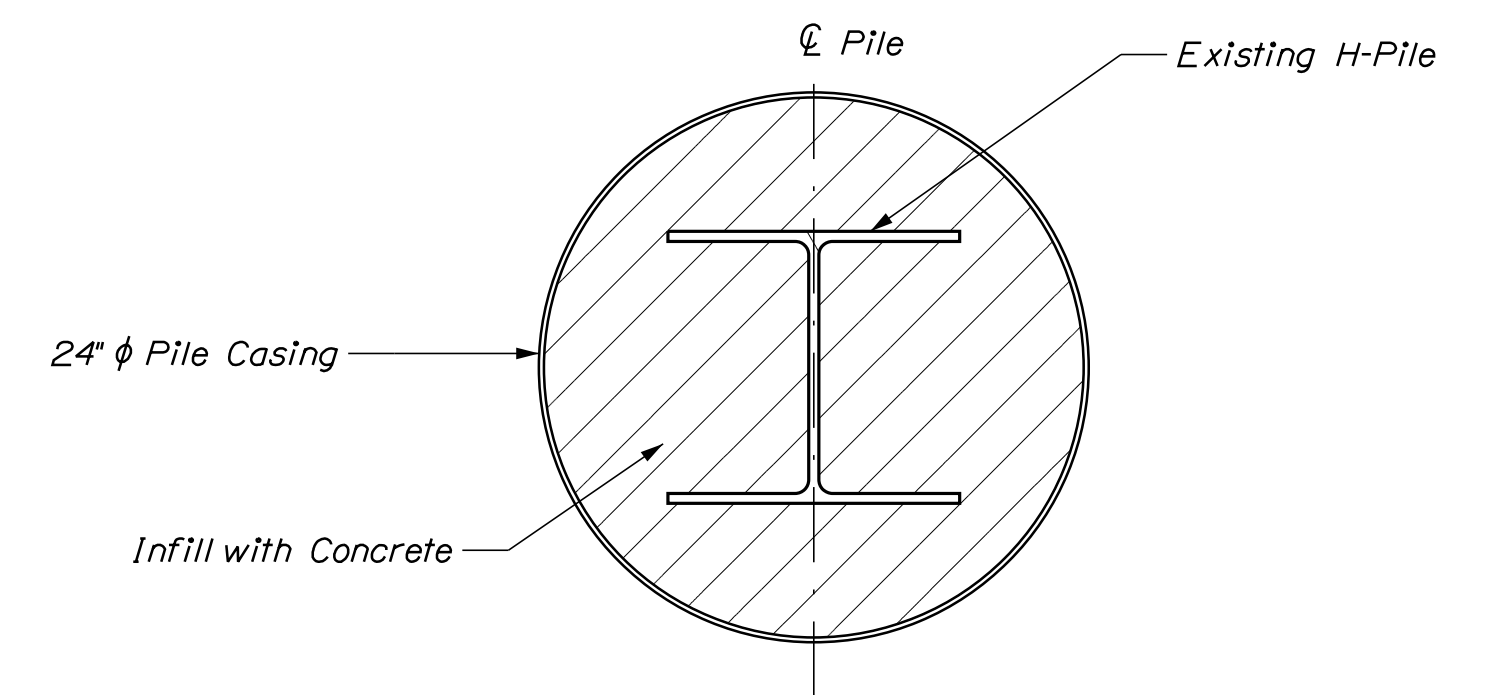
TYPICAL PIER ELEVATION
Pier no. 2 shown, other piers similar

PILE CASING NOTE:

1. Dimensions and elevations provided are for reference only. Present conditions may vary. Please refer to the existing bridge plans and Standard Specifications Subsection 102.3, Examinations of Documents, Site and Other Information.



PILE CASING DETAIL ALTERNATIVE 2
(Typ. all Piles)



PILE CASING DETAIL ALTERNATIVE 1
(Typ. all Piles)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2364900

WIN

BRIDGE NO. 6654

023649.00

BRIDGE PLANS

DATE

8/23/2022

BY

J. Leavitt

PROJ. MANAGER

M. Kerzhirgen

DESIGN DETAILED

C. JUSTAFSON

CHECKED/REVIEWED

M.R.P.

DESIGN DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

SIGNATURE

P.E. NUMBER

DATE

FIELD CHANGES

ST. GEORGE RIVER BRIDGE

ST. GEORGE RIVER

WARREN

KNOX COUNTY

PIER ELEVATION AND DETAILS

SHEET NUMBER

5

OF 5