

Date: 7/27/2023

Username:

Division: HIGHWAY

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STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION



SANFORD  
YORK COUNTY

CRANBERRY RIDGE BRIDGE

U.S. ROUTE 202 / ROUTE 11 (LEBANON STREET)

BRIDGE NO. 6701

FEDERAL PROJECT NO. 2374710

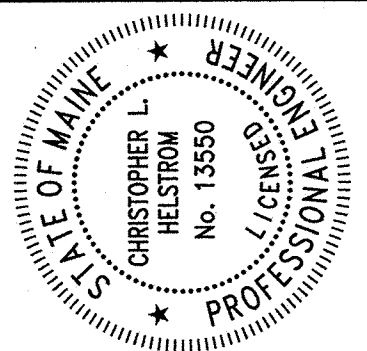
PROJECT LENGTH : 0.04 MILES

PLAN LEGEND

|                            |            |                             |          |          |
|----------------------------|------------|-----------------------------|----------|----------|
| Town, County, State        | -----      | Catch Basins                | Existing | Proposed |
| Property Lines             | -----      | Manholes                    | Existing | Proposed |
| R/W Lines-Existing         | -----      | Proposed Underdrain         | ----->   |          |
| R/W Lines-Proposed         | -----      | Proposed Ditch              | ----->   |          |
| Culvert-Existing           | =====      | Existing Ditch              | ----->   |          |
| Culvert Proposed           | =====      | Utility Poles               | Existing | Proposed |
| Curbing                    | Existing   | Fire Hydrants               | Existing | Proposed |
| Type 1                     | =====      | Existing Water Line         | -----    |          |
| Type 3                     | =====      | Existing San. Sewer         | ----->   |          |
| Type 5                     | =====      | Existing San. Sewer Manhole | -----    |          |
| Outline of Bodies of Water | =====      | Guardrail-Existing          | -----    |          |
| Exposed Bedrock            | =====      | Guardrail-Proposed          | -----    |          |
| Buildings                  | =====      | Guardrail-Cable, Other      | -----    |          |
| Trees                      | Conifer    | Centerline-Existing         | -----    |          |
| Tree Line                  | -----      | Centerline-Proposed         | -----    |          |
| Clearing Limit Line        | -----      | Travelway-Existing          | -----    |          |
| Railroad                   | =====      | Travelway-Proposed          | -----    |          |
| Boring                     | HB-XXX-### | Probe                       | P-#. #X  |          |
| Pavement Core              | PC-#       |                             |          |          |
| Test Pit                   | TP-XXX-### |                             |          |          |

INDEX OF SHEETS

| Description         | Sheet No. |
|---------------------|-----------|
| Title Sheet         | 1         |
| Precast Box Details | 2         |



|                         |       |             |           |      |
|-------------------------|-------|-------------|-----------|------|
| SIGNATURE               | 13550 | P.E. NUMBER | 7/28/2023 | DATE |
| CHRISTOPHER L. HELSTROM |       |             |           |      |

|                     |                |                 |          |            |                  |            |                         |
|---------------------|----------------|-----------------|----------|------------|------------------|------------|-------------------------|
| PROJECT INFORMATION | PROGRAM        | PROJECT MANAGER | DESIGNER | CONSULTANT | PROJECT RESIDENT | CONTRACTOR | PROJECT COMPLETION DATE |
| HIGHWAY             | LARRY HAMILTON | CHRIS HELSTROM  | TYLIN    |            |                  |            |                         |

|         |                         |             |
|---------|-------------------------|-------------|
| SANFORD | U.S. RTE. 202 / RTE. 11 | TITLE SHEET |
|---------|-------------------------|-------------|

|              |   |      |
|--------------|---|------|
| SHEET NUMBER | 1 | OF 2 |
|--------------|---|------|

WIN 23747.10 FEDERAL PROJECT NO. 2374710

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

DESIGN LOADING

Live Load ..... HL - 93 Modified for Strength 1

MATERIALS

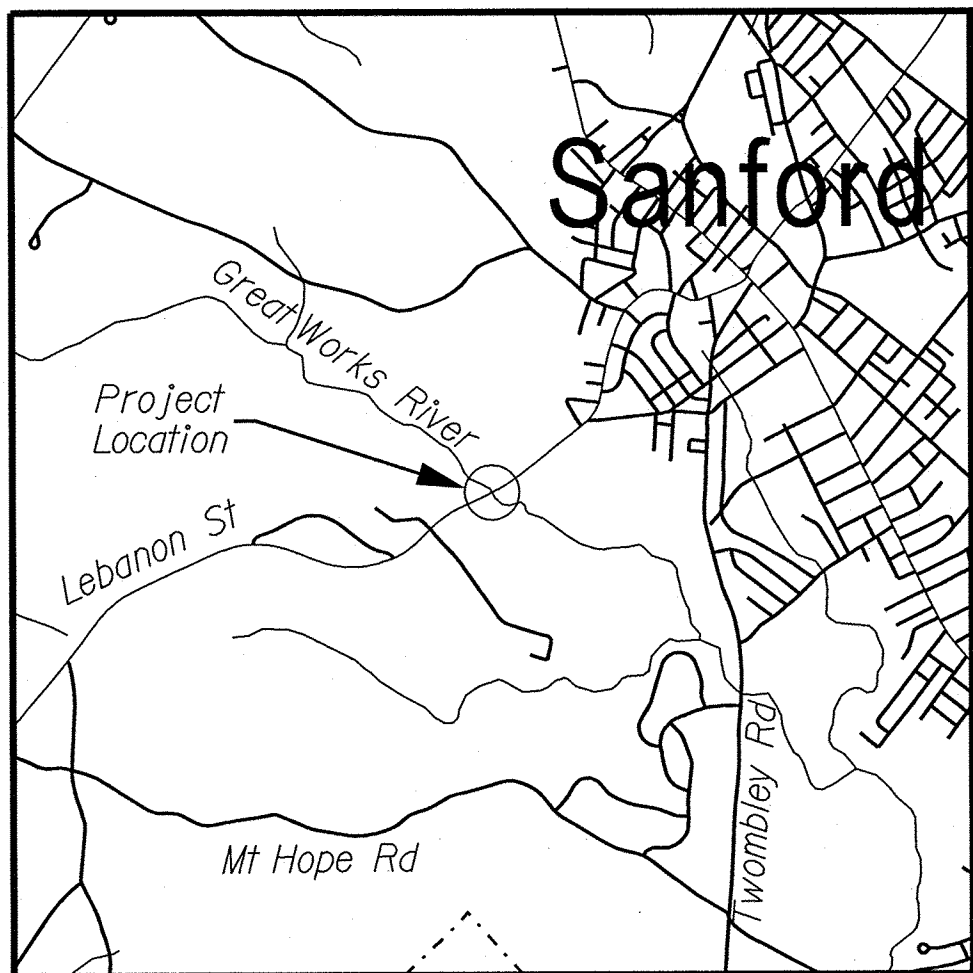
Concrete: ..... Class "P"

Reinforcing Steel ..... ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Precast Concrete ..... f'c = 5,000 psi

Reinforcing Steel ..... fy = 60,000 psi

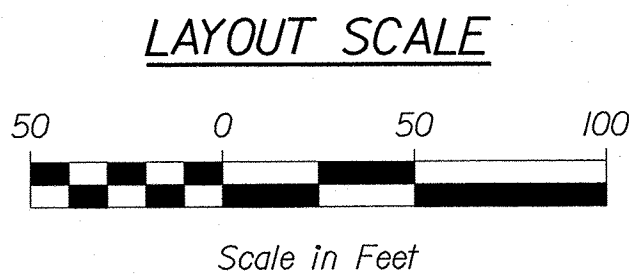


0 1/2 1  
Scale in Miles  
LOCATION MAP

TRAFFIC DATA

Lebanon Street

|                                |                    |
|--------------------------------|--------------------|
| Current (2023) AADT            | 6260               |
| Future (2043) AADT             | 6890               |
| DHV - % of AADT                | 11%                |
| Design Hour Volume             | 758                |
| % Heavy Trucks (AADT)          | 14%                |
| Directional Distribution (DHV) | 51%                |
| Design Speed (mph)             | 40                 |
| Functional Class               | Principal Arterial |
| Corridor Priority              | 1                  |



PROJECT LOCATION:

LARGE CULVERT (#46484) LOCATED 0.19 OF A MILE NORTHEAST OF JELLERSON ROAD

PROGRAM AREA:

HIGHWAY PROGRAM

SCOPE OF WORK:

LARGE CULVERT REPLACEMENT

TYLin



1. PRECAST UNITS SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADINGS WITH A MINIMUM FILL COVER OF 18 INCHES OVER THE TOP OF THE UNITS.
2. THE PRECAST CONCRETE BOX CULVERT SHALL BE BEDDED ON 1 FOOT LAYER OF COMPACTED GRANULAR BORROW MATERIAL FOR UNDERWATER BACKFILL.
3. A "CLAMSHELL" PRECAST CONCRETE BOX CULVERT WILL BE USED. HORIZONTAL SEAM WILL BE A MINIMUM OF 6'-0" ABOVE THE INVERT.
4. CONSTRUCTION HANDLING, AND ASSEMBLY OF THE PRECAST UNITS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION 534 AND THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.