

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



OAKFIELD AROOSTOOK COUNTY

RIDGE ROAD
SPAULDING LAKE BRIDGE
BRIDGE NO. 6638

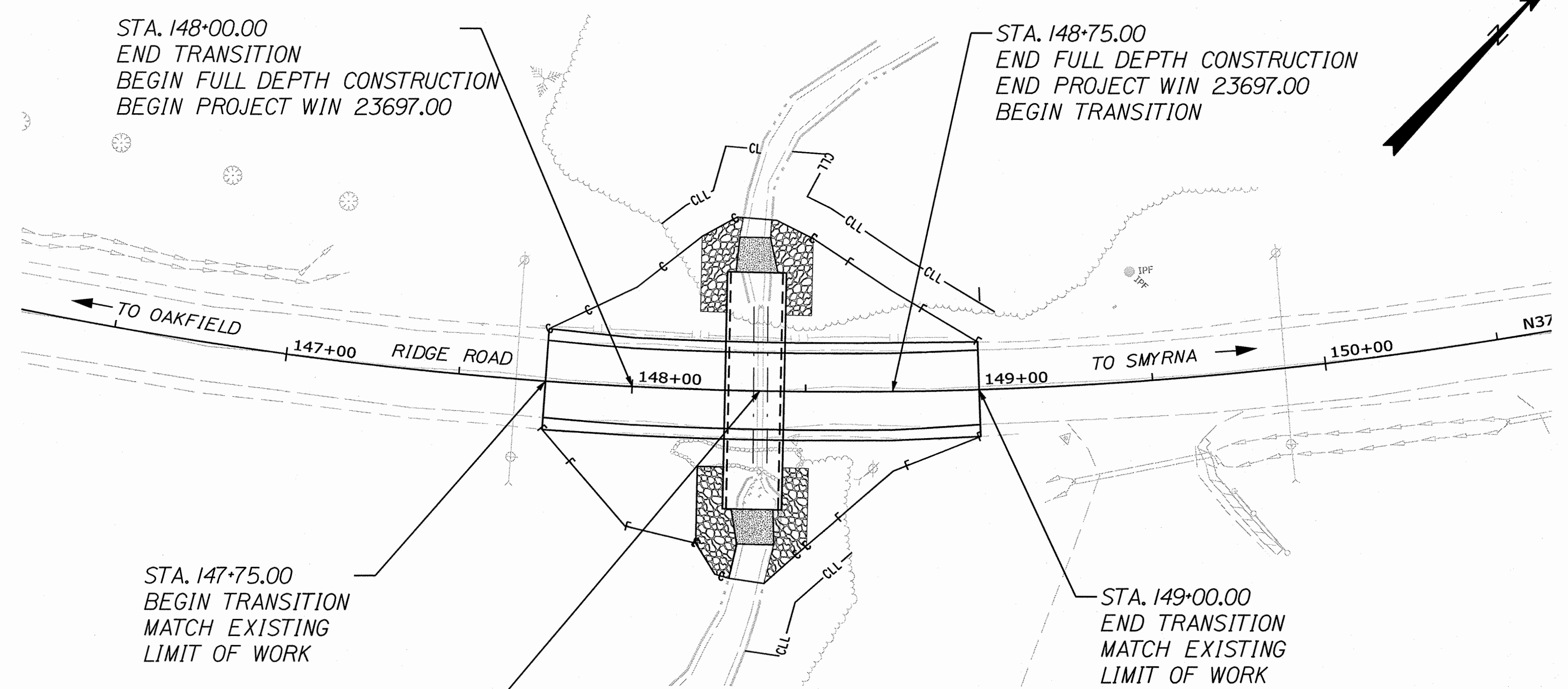
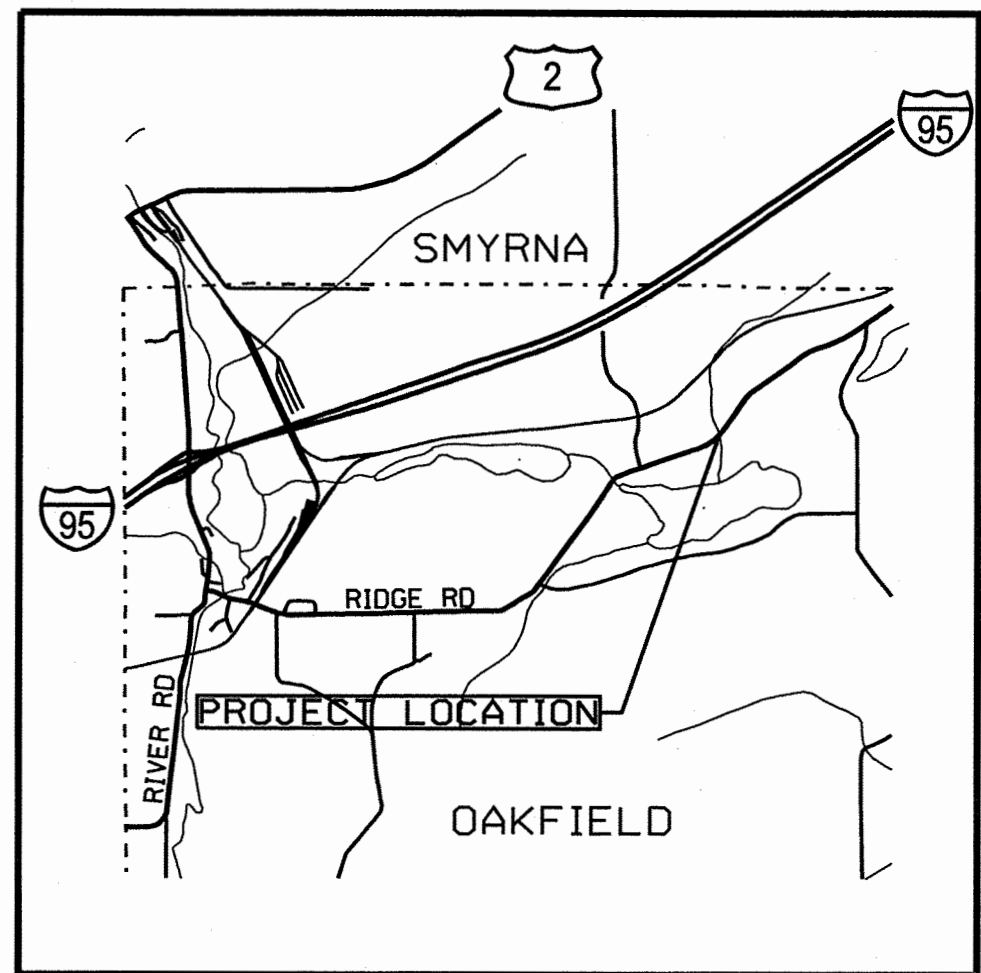
STATE PROJECT NO. 23697.00

PROJECT LENGTH : 0.01 MILES

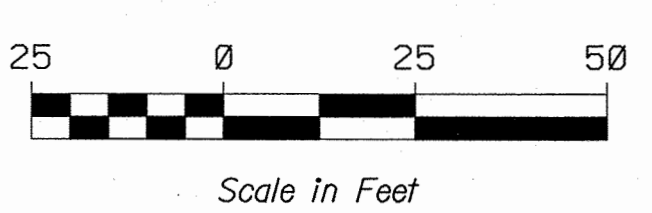
| PLAN LEGEND | |
|-----------------------------|------------------------|
| Town, County, State | ----- |
| Property Lines | ----- |
| R/W Lines-Existing | ----- |
| R/W Lines-Proposed | ----- |
| Culvert-Existing | ----- |
| Culvert Proposed | ----- |
| Curbing Existing | ----- |
| Curbing Proposed | ----- |
| Type 1 | ----- |
| Type 3 | ----- |
| Type 5 | ----- |
| Outline of Bodies of Water | ----- |
| Exposed Bedrock | ----- |
| Buildings | ----- |
| Trees | ----- |
| Tree Line | ----- |
| Clearing Limit Line | ----- |
| Railroad | ----- |
| Catch Basins | Existing Proposed |
| Manholes | Existing Proposed |
| Proposed Underdrain | ----- |
| Proposed Ditch | ----- |
| Existing Ditch | ----- |
| Utility Poles | Existing Proposed |
| Fire Hydrants | Existing Proposed |
| Existing Water Line | ----- |
| Existing San. Sewer | ----- |
| Existing San. Sewer Manhole | |
| Guardrail-Existing | ----- |
| Guardrail-Proposed | ----- |
| Guardrail-Cable, Other | ----- |
| Centerline-Existing | ----- |
| Centerline-Proposed | ----- |
| Travelway-Existing | ----- |
| Travelway-Proposed | ----- |
| Boring | HB-XXX-### |
| Pavement Core | PC-# |
| Test Pit | TP-XXX-### |
| Probe | P-#.X |
| | ## = Depth |
| | X = W (Weathered Rock) |
| | R (Refusal) |
| | NR (No Refusal) |

| INDEX OF SHEETS | |
|--|-----------|
| Description | Sheet No. |
| Title Sheet | 1 |
| Typical Sections | 2 |
| Estimated Quantities and General Notes | 3 |
| Special Details | 4 |
| Streambed Details | 5 |
| Boring Location Plan & Interpretive Subsurface Profile | 6 |
| Boring Logs | 7 |
| Plan and Profile | 8 |
| Cross Sections | 9-11 |
| Road Closure Plan | 12 |
| Sign Summary | 13 |
| Right of Way Map | 14 |

| TRAFFIC DATA | |
|--------------------------------|-----------------|
| Current (2023) AADT | 330 |
| Future (2043) AADT | 360 |
| DHV - % of AADT | 12% |
| Design Hour Volume | 43 |
| % Heavy Trucks (AADT) | 9% |
| % Heavy Trucks (DHV) | 5% |
| Directional Distribution (DHV) | 63% |
| 18 kip Equivalent P 2.0 | 12 |
| 18 kip Equivalent P 2.5 | 11 |
| Design Speed (mph) | 45 |
| Functional Class | Minor Collector |
| Highway Corridor Priority | 4 |



PROPOSED CULVERT
 STA. 148+35.29
 15'-0" SPAN x 7'-0" RISE x
 68'-0" LONG PRECAST
 CONCRETE BOX CULVERT



| | |
|--------------------------|--|
| PROJECT LOCATION: | OAKFIELD, RIDGE ROAD, LOCATED 1.2 MILES EAST OF SPAULDING LAKE ROAD INTERSECTION |
| PROGRAM AREA: | REGIONAL PROGRAM |
| SCOPE OF WORK: | LARGE CULVERT REPLACEMENT |

WIN 23697.00 STATE PROJECT NO. 23697.00

OAKFIELD
RIDGE ROAD
TITLE SHEET

SHEET NUMBER
1
OF 14

| | | |
|--|----------|---------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | APPROVED | DATE |
| COMMISSIONER: | | 2-23-24 |
| CHIEF ENGINEER: | | 2-23-24 |

| | | | | | | | |
|---------------------|-------------|-----------------|---------------------|------------|------------------|------------|-------------------------|
| PROJECT INFORMATION | PROGRAM | PROJECT MANAGER | DESIGNER | CONSULTANT | PROJECT RESIDENT | CONTRACTOR | PROJECT COMPLETION DATE |
| Highway | ROGER SOUCY | L. KALLOCH | CMA ENGINEERS, INC. | | | | |
| SIGNATURE | 15.070 | P.E. NUMBER | 01-25-2024 | DATE | | | |

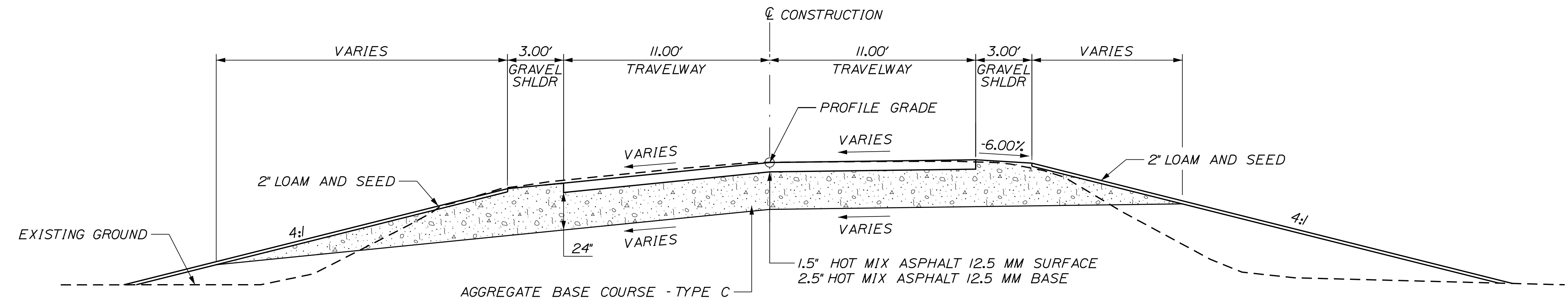
| | |
|---|--------------------------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER | Liam B. Kalloch 16070 |
|---|--------------------------|

Date: 1/17/2024

Username: common

Division: HIGHWAY

Filename: ... \Consultant\001_Title .dgn



| AGGREGATE BASE COURSE - TYPE C | | |
|--|--|--|
| SHOULDER 68.40 CY/100 LF | TRAVEL LANE 162.96 CY/100 LF | SHOULDER 46.95 CY/100 LF |
| STATION TO STATION 148+00 TO 148+75 | STATION TO STATION 148+00 TO 148+75 | STATION TO STATION 148+00 TO 148+75 |

ROADWAY TYPICAL SECTION
SUPERELEVATED
N.T.S.

| SUPERELEVATION TABLE | | |
|----------------------|---------|-----------------|
| LT. TRAVEL LANE | STATION | RT. TRAVEL LANE |
| | BEGIN | |
| MATCH | 147+75 | MATCH |
| -9.0% | 148+00 | 0.6% |
| -9.5% | 148+25 | 1.0% |
| -10.0% | 148+50 | 1.3% |
| -10.5% | 148+75 | 1.7% |
| MATCH | 149+00 | MATCH |

NOTES:

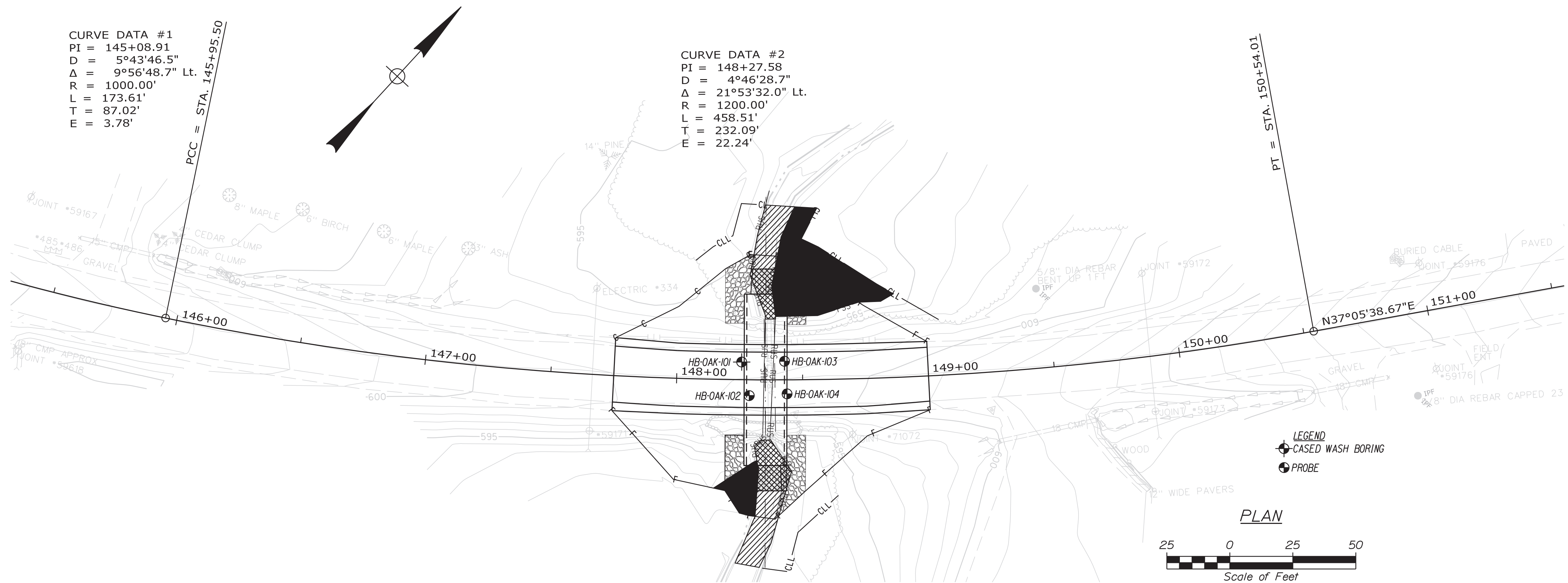
1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.
2. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2 INCH LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.
3. STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.
4. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVELWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

NOT TO SCALE

| | |
|--|--|
| OAKFIELD RIDGE ROAD TYPICAL SECTIONS | STATE OF MAINE DEPARTMENT OF TRANSPORTATION SIGNATURE _____ P.E. NUMBER _____ DATE _____ |
| SHEET NUMBER | 2 |
| OF 14 | BRIDGE NO. 6638 WIN 23697.00 HIGHWAY PLANS |

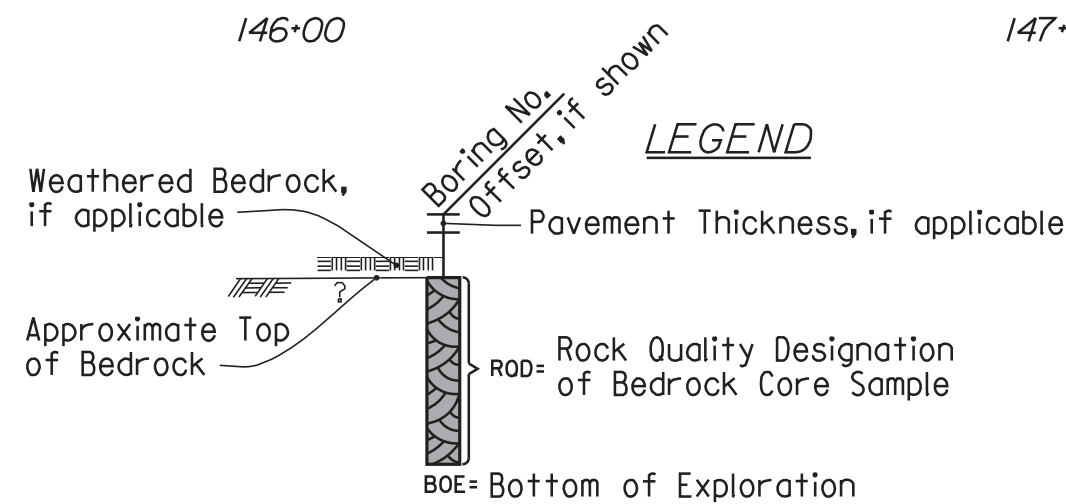
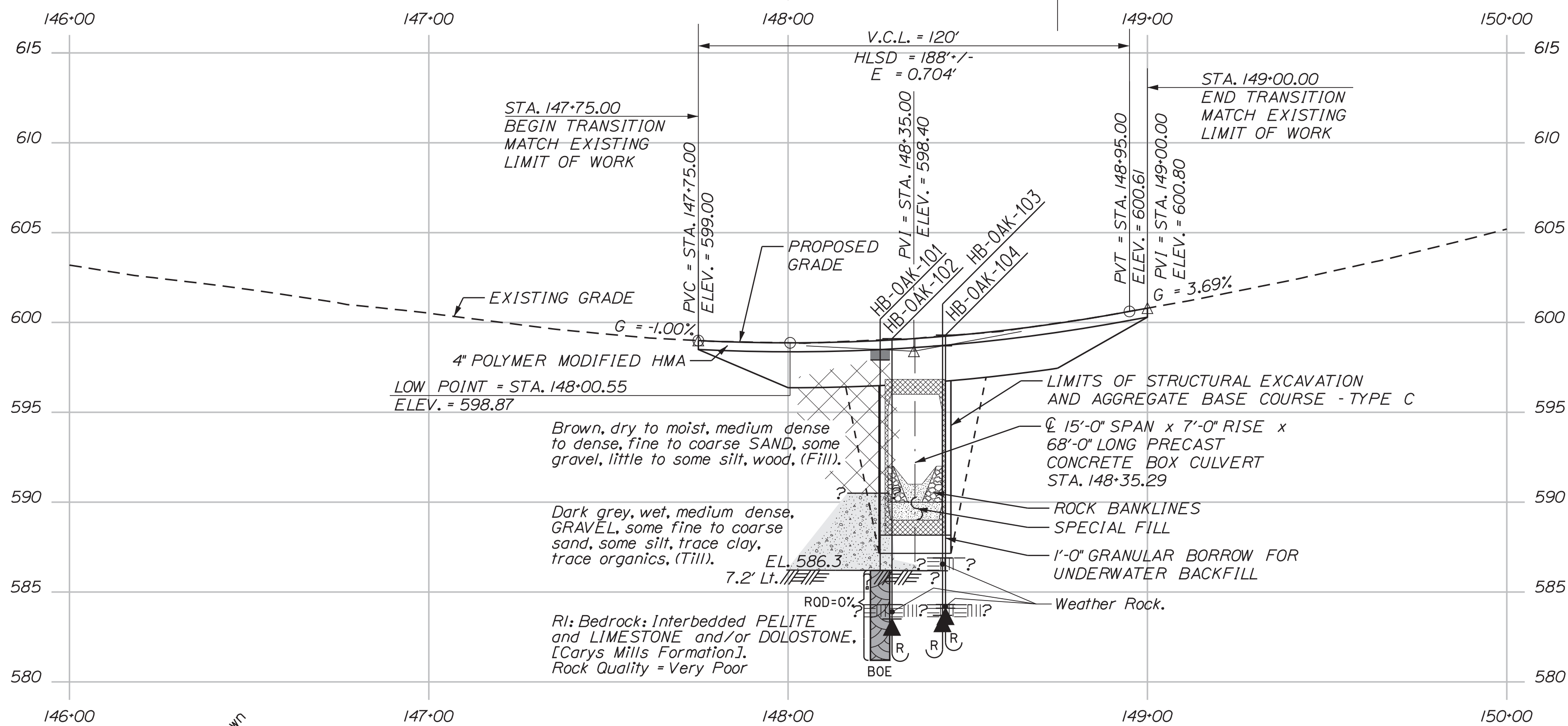
CURVE DATA #1
 PI = 145+08.91
 D = 5°43'46.5"
 Δ = 9°56'48.7" Lt.
 R = 1000.00'
 L = 173.61'
 T = 87.02'
 E = 3.78'

CURVE DATA #2
 PI = 148+27.58
 D = 4°46'28.7"
 Δ = 21°53'32.0" Lt.
 R = 1200.00'
 L = 458.51'
 T = 232.09'
 E = 22.24'



STA 148+00.00
 END TRANSITION
 BEGIN FULL DEPTH CONSTRUCTION
 BEGIN PROJECT WIN 23697.00

STA 148+75.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23697.00
 BEGIN TRANSITION



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.



Cody A. Russell

SIGNATURE

15866

P.E. NUMBER

1/22/2024

DATE

| PROJ. MANAGER | DATE | BY | REVISIONS | FIELD CHANGES |
|------------------|----------|------------|-----------|---------------|
| DESIGN-DETAILED | | | | |
| CHECKED-REVIEWED | | | | |
| DESIGN-DETAILED | JAN 2024 | T. WHITE | | |
| DESIGN-DETAILED | | C. RUSSELL | | |
| REVISIONS 1 | | | | |
| REVISIONS 2 | | | | |
| REVISIONS 3 | | | | |
| REVISIONS 4 | | | | |
| FIELD CHANGES | | | | |

OAKFIELD
 RIDGE ROAD
 BORING LOCATION PLAN &
 INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

6

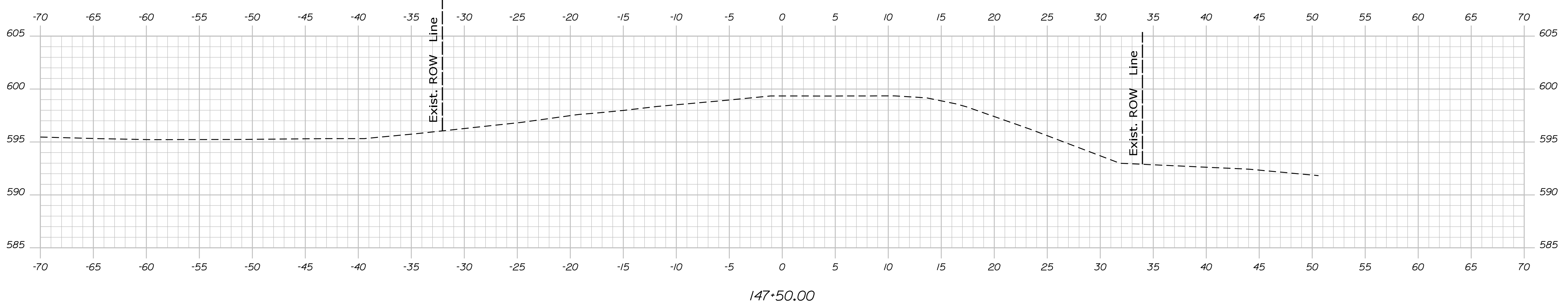
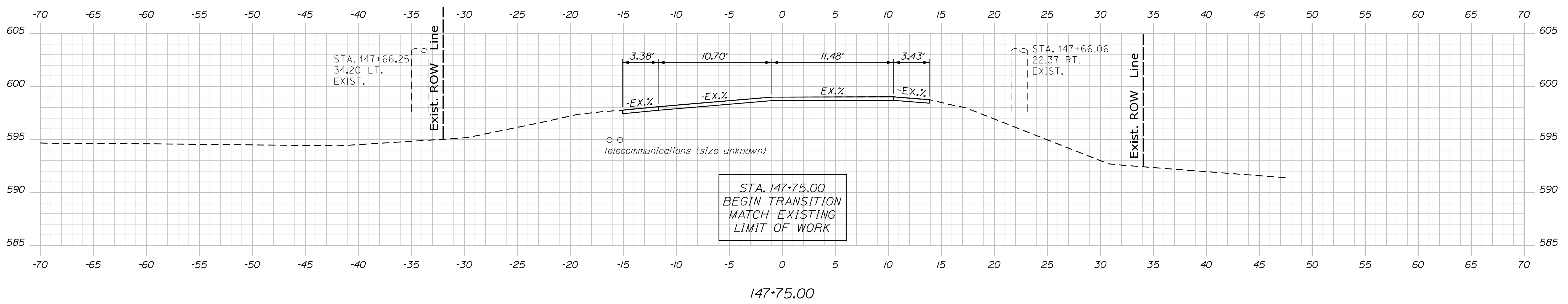
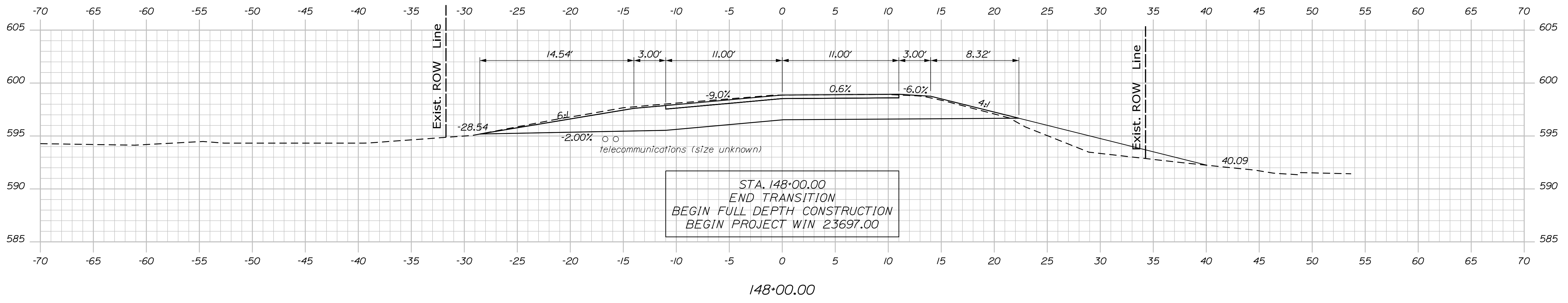
OF 14

Date: 1/17/2024

Username: common

Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn



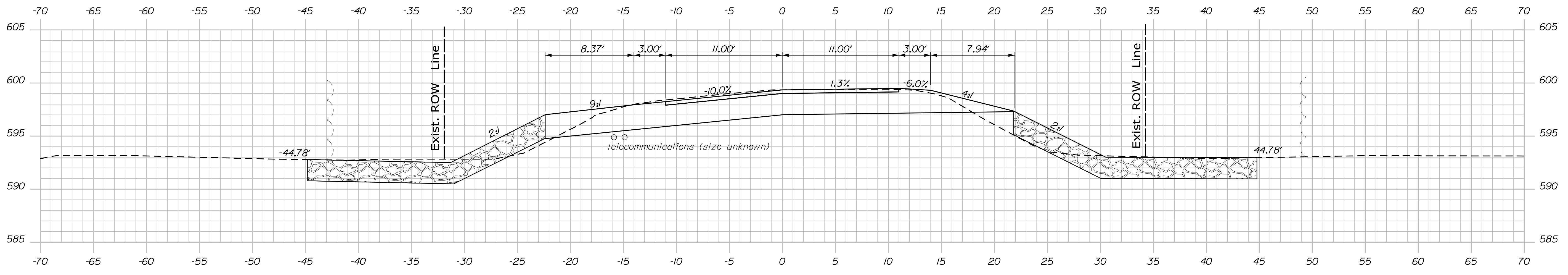
| | | |
|--|--|-----------------------------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 23697.00 |
| SIGNATURE | | P.E. NUMBER |
| DATE | | DATE |
| PROJ. MANAGER ROGER SOUCY | | BY W. GORDON |
| DESIGN-DETAILED L. KALLOCH | | CHECKED-REVIEWED S. FORTIER |
| DESIGN-DETAILED | | DESIGN-DETAILED |
| REVISIONS 1 | | REVISIONS 1 |
| REVISIONS 2 | | REVISIONS 2 |
| REVISIONS 3 | | REVISIONS 3 |
| REVISIONS 4 | | REVISIONS 4 |
| FIELD CHANGES | | FIELD CHANGES |
| OAKFIELD RIDGE ROAD CROSS SECTIONS | | |
| SHEET NUMBER | | |
| 9 | | |
| OF 14 | | |

Date: 1/17/2024

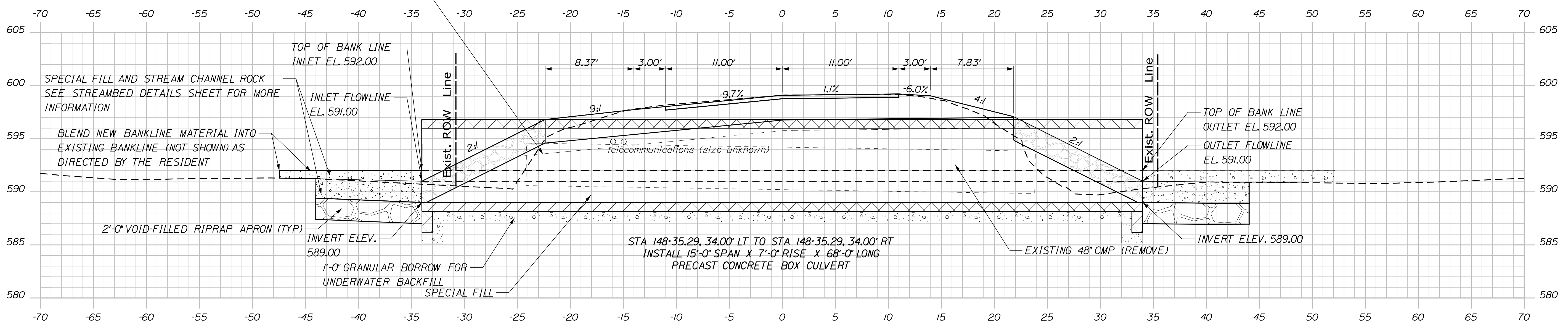
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Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn

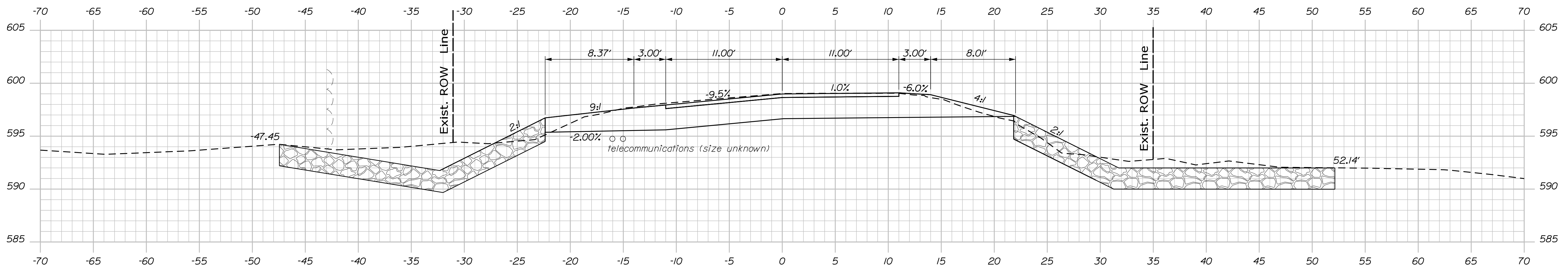


LIMIT OF ADDITIONAL 1'-0" LIFT OF SUBBASE FOR FROST TRANSITION AT CULVERT
 148+50.00



2'-0" VOID-FILLED RIPRAP APRON (TYP)
 INVERT ELEV. 589.00
 1'-0" GRANULAR BORROW FOR UNDERWATER BACKFILL
 SPECIAL FILL
 STA 148+35.29, 34.00' LT TO STA 148+35.29, 34.00' RT
 INSTALL 15'-0" SPAN X 7'-0" RISE X 68'-0" LONG
 PRECAST CONCRETE BOX CULVERT
 EXISTING 48" CMP (REMOVE)
 INLET FLOWLINE EL. 591.00
 TOP OF BANK LINE INLET EL. 592.00
 OUTLET FLOWLINE EL. 591.00
 TOP OF BANK LINE OUTLET EL. 592.00

148+35.29



148+25.00

STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN
 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

DATE
 BY
 CHECKED
 DESIGNED
 REVISIONS
 FIELD CHANGES

PROJ. MANAGER
 DESIGN-DETAILED
 CHECKED-REVIEWED
 DESIGN-DETAILED
 REVISIONS 1
 REVISIONS 2
 REVISIONS 3
 REVISIONS 4

OAKFIELD
 RIDGE ROAD
 CROSS SECTIONS

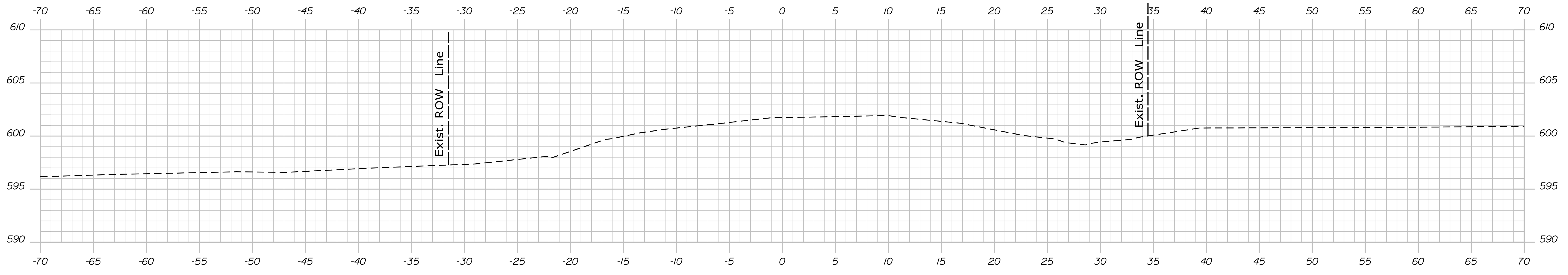
SHEET NUMBER
 10
 OF 14

Date: 1/17/2024

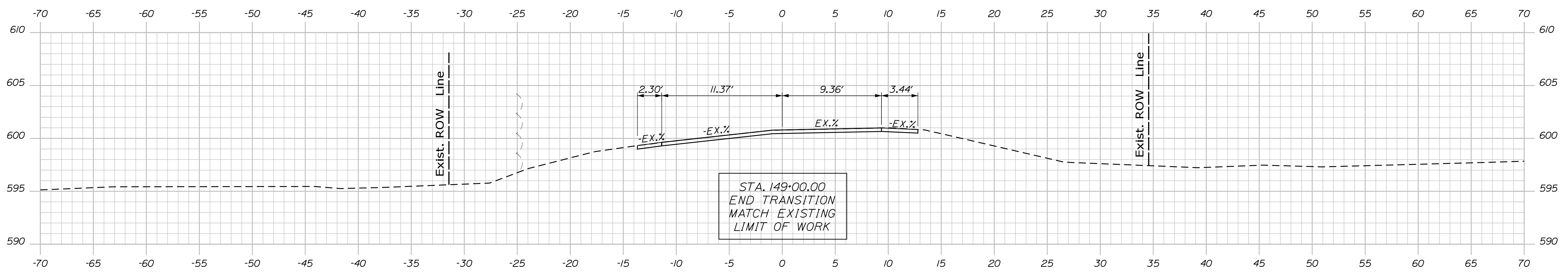
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Division: HIGHWAY

Filename: ... \Consultant\007_Xsect.dgn

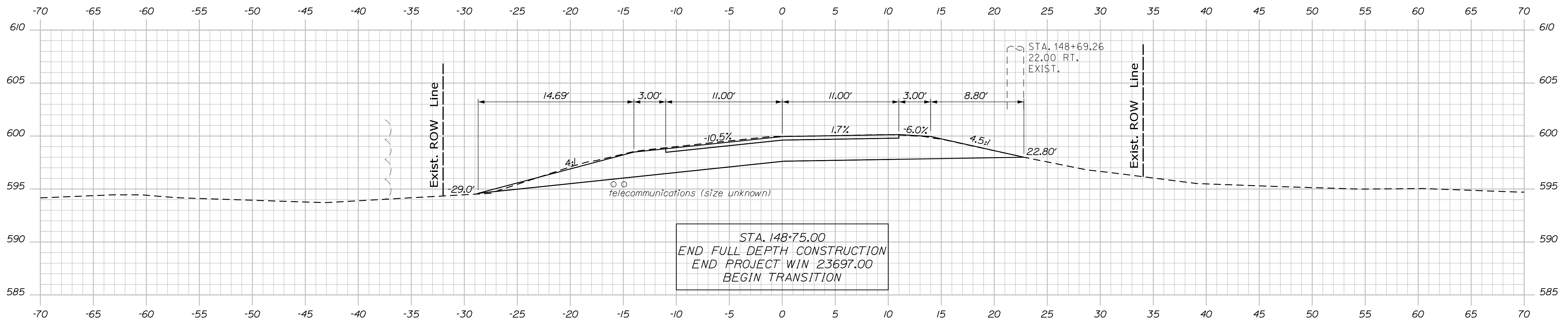


149+25.00



STA. 149+00.00
 END TRANSITION
 MATCH EXISTING
 LIMIT OF WORK

149+00.00



STA. 148+75.00
 END FULL DEPTH CONSTRUCTION
 END PROJECT WIN 23697.00
 BEGIN TRANSITION

148+75.00

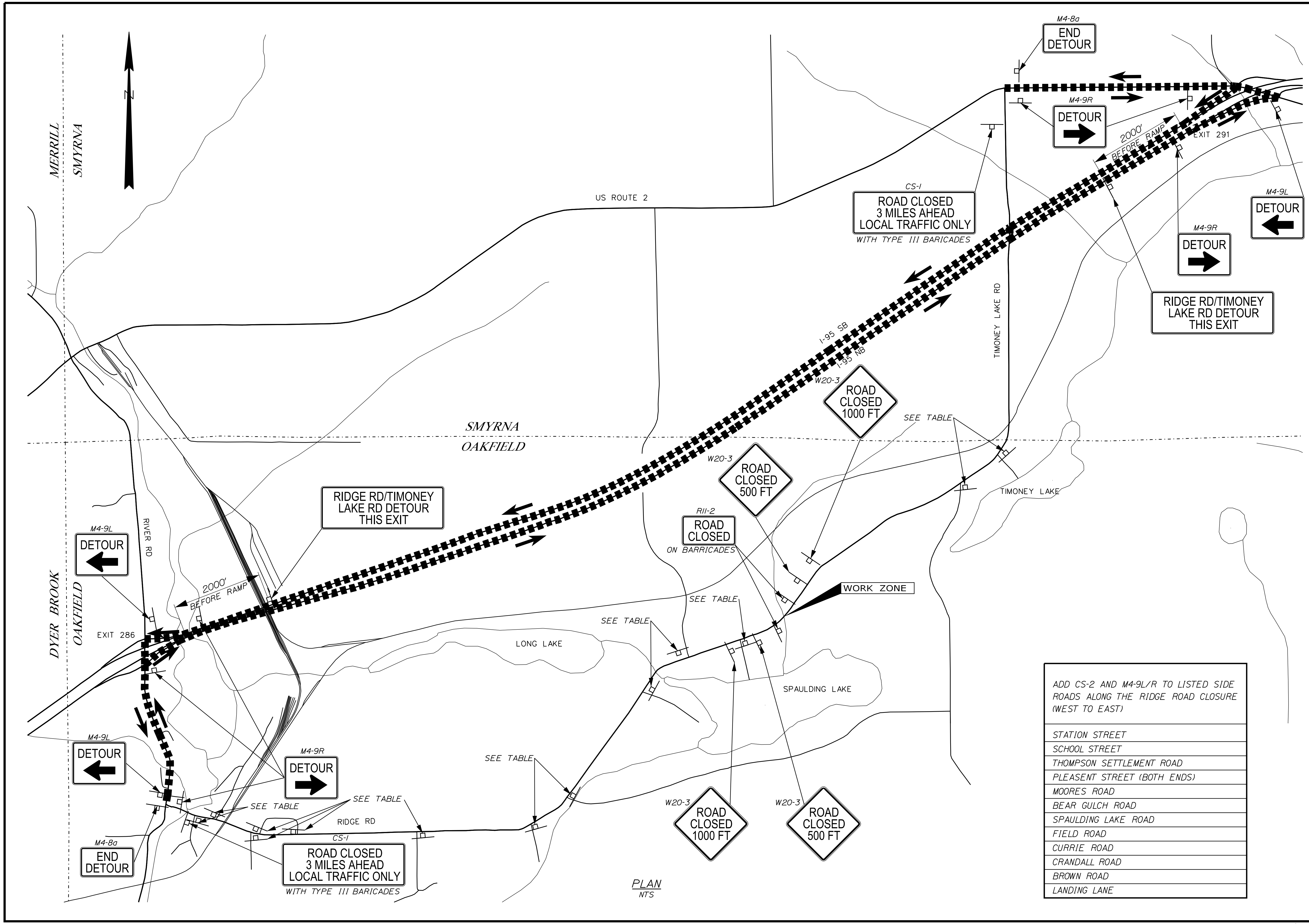
STATE OF MAINE
 DEPARTMENT OF TRANSPORTATION
 23697.00
 WIN
 23697.00
 BRIDGE NO. 6638
 HIGHWAY PLANS

| | | |
|---------------|-------------|------|
| DESIGNED | BY | DATE |
| CHECKED | ROGER SOUCY | |
| DESIGNED | L. KALLOCH | |
| DESIGNED | W. GORDON | |
| DESIGNED | S. FORTIER | |
| DESIGNED | J. BEAUBIET | |
| REVISIONS 1 | | |
| REVISIONS 2 | | |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |

| | | |
|-----------|-------------|------|
| SIGNATURE | P.E. NUMBER | DATE |
| | | |

OAKFIELD
 RIDGE ROAD
 CROSS SECTIONS

SHEET NUMBER
 11
 OF 14



PLAN
NTS

ADD CS-2 AND M4-9L/R TO LISTED SIDE ROADS ALONG THE RIDGE ROAD CLOSURE (WEST TO EAST)

| |
|-----------------------------|
| STATION STREET |
| SCHOOL STREET |
| THOMPSON SETTLEMENT ROAD |
| PLEASENT STREET (BOTH ENDS) |
| MOORES ROAD |
| BEAR GULCH ROAD |
| SPAULDING LAKE ROAD |
| FIELD ROAD |
| CURRIE ROAD |
| CRANDALL ROAD |
| BROWN ROAD |
| LANDING LANE |

| | | |
|--|-------------|----------------------------------|
| STATE OF MAINE DEPARTMENT OF TRANSPORTATION | | 23697.00 |
| OAKFIELD RIDGE ROAD | | WIN 23697.00 |
| ROAD CLOSURE PLAN | | BRIDGE NO. 6638 HIGHWAY PLANS |
| PROJ. MANAGER | ROGER SOUCY | DATE |
| DESIGN-DETAILED | L. KALLOCH | BY |
| CHECKED-REVIEWED | S. FORTIER | W. GORDON |
| DESIGN-DETAILED | | J. BEAUBIET |
| DESIGN-DETAILED | | SIGNATURE |
| REVISIONS 1 | | P.E. NUMBER |
| REVISIONS 2 | | DATE |
| REVISIONS 3 | | |
| REVISIONS 4 | | |
| FIELD CHANGES | | |
| SHEET NUMBER | | 12 |
| | | OF 14 |

CONSTRUCTION SIGN SUMMARY

| ITEM NUMBER | IDENTIFICATION NUMBER | SIZE OF SIGN | | TEXT | TEXT DIMENSIONS (INCHES) | | | NUMBER OF SIGNS REQUIRED | COLOR | | AREA IN SQUARE FEET |
|-------------|-----------------------|--------------|--------|--|---|------------------|----------------|--------------------------|-------------|----------------|---------------------|
| | | WIDTH | HEIGHT | | LETTER HEIGHT | VERTICAL SPACING | ARROW RTE. MKR | | BACK-GROUND | LEGEND BOARDER | |
| 652.35 | CS-1 | 60" | 30" | ROAD CLOSED 3 MILES AHEAD LOCAL TRAFFIC ONLY | 6" 5" 4" | 3.4" 3.4" | | 2 | ORANGE | BLACK | 12.50 (25.00) |
| 652.35 | CS-2 | 30" | 30" | RIDGE ROAD CLOSED USE DETOUR | 4" 4" 4" | 3.0" 3.0" | | 13 | ORANGE | BLACK | 6.25 (81.25) |
| 652.35 | CS-3 | 54" | 30" | RIDGE RD/TIMONEY LAKE RD DETOUR THIS EXIT | 6" 5" 4" | 3.4" 3.4" | | 2 | ORANGE | BLACK | 11.25 (22.50) |
| 652.35 | M4-8A | 24" | 18" | END DETOUR | TEXT DIMENSIONS SHALL CONFORM TO 'STANDARD HIGHWAY SIGNS' | | | 2 | ORANGE | BLACK | 3.00 (6.00) |
| 652.35 | M4-9R | 30" | 24" | DETOUR ➔ | | | | 12 | ORANGE | BLACK | 5.00 (60.00) |
| 652.35 | M4-9L | 30" | 24" | DETOUR ← | | | | 10 | ORANGE | BLACK | 5.00 (50.00) |
| 652.35 | R11-2 | 48" | 30" | ROAD CLOSED | | | | 2 | ORANGE | BLACK | 10.00 (20.00) |
| 652.35 | W20-3 (500 FT) | 48" | 48" | ROAD CLOSED 500 FT | | | | 2 | ORANGE | BLACK | 16.00 (32.00) |
| 652.35 | W20-3 (1000 FT) | 48" | 48" | ROAD CLOSED 1000 FT | | | | 2 | ORANGE | BLACK | 16.00 (32.00) |

NOTES:

- SIGN LOCATIONS ARE APPROXIMATE AND TO BE VERIFIED IN THE FIELD.
- INFORMATION SHOWN REFLECTS SIGNAGE FOR DETOUR PLANS ONLY. ADDITIONAL SIGNAGE IS REQUIRED FOR HIGHWAY CONSTRUCTION WORK.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

23697.00

WIN

23697.00

BRIDGE NO. 8638

HIGHWAY PLANS

SIGNATURE

P.E. NUMBER

DATE

DATE

BY

ROGER SOUCY

L. KALLOCH

W. GORDON

S. FORTIER

J. BEAUBIET

DESIGN-DETAILED

DESIGN-REVIEWED

DESIGN-DETAILED

DESIGN-DETAILED

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

OAKFIELD
RIDGE ROAD

SIGN SUMMARY

SHEET NUMBER

13

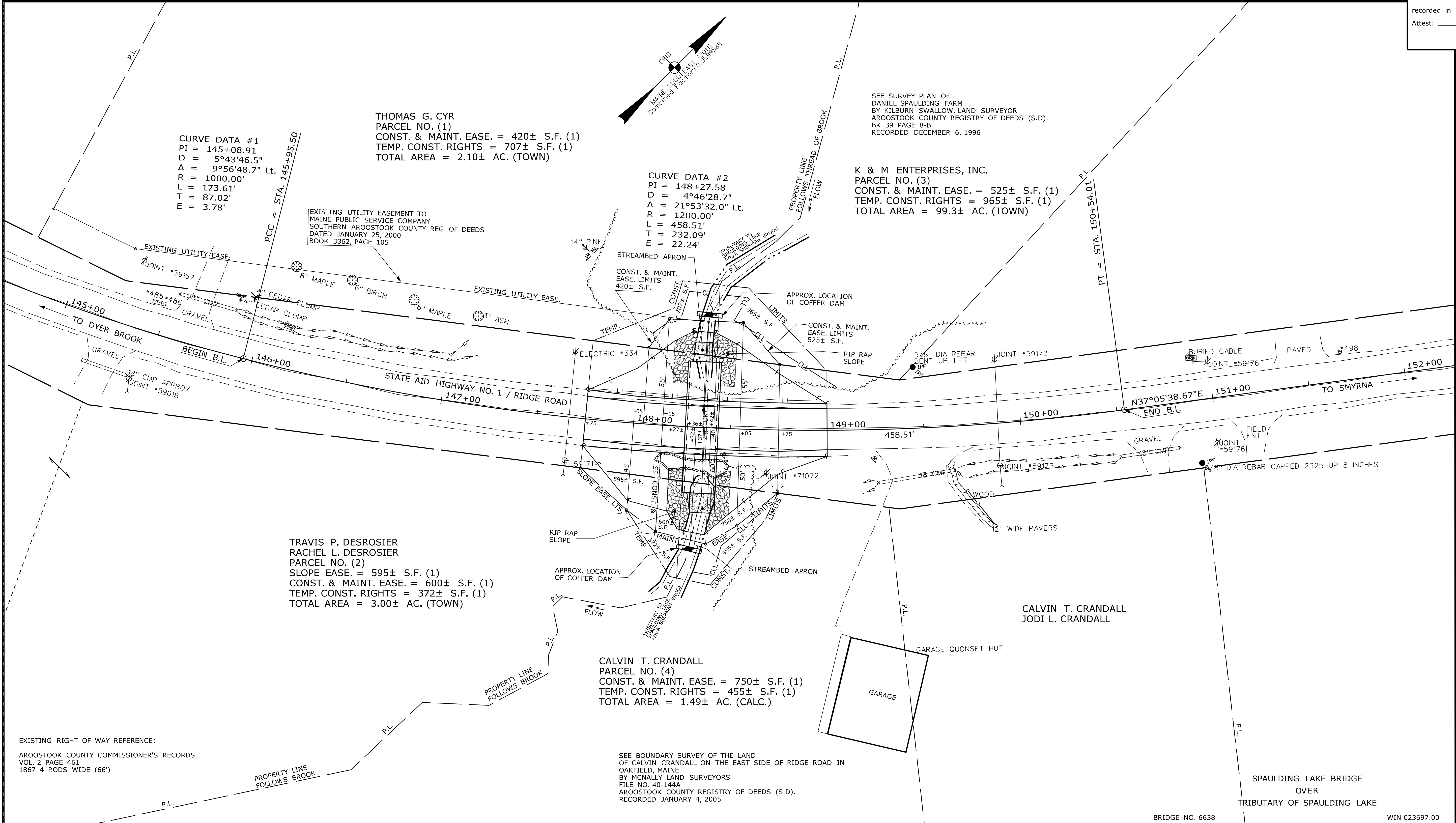
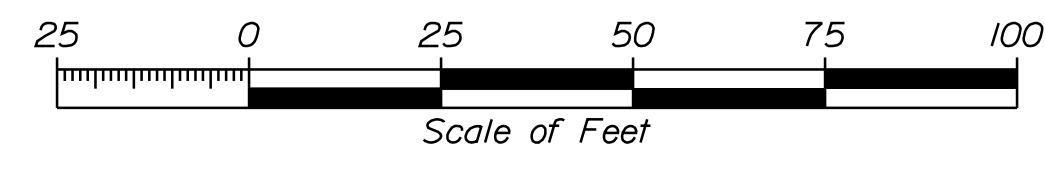
OF 14

| PLAN LEGEND | |
|---|--|
| <p>Town, County, State _____</p> <p>Approx. Property Lines _____ P.L.</p> <p>Existing Right of Way _____ L.O.W.P.</p> <p>Limits of Wrought Portion _____ C.O.A.</p> <p>Control Of Access _____</p> <p>New Right of Way _____</p> <p>New Easement _____</p> <p>New Temporary Rights _____</p> <p>New R/W Within Existing R/W _____</p> | <p>New R/W Along Existing R/W _____</p> <p>Building _____</p> <p>Trees: Conifer _____, Deciduous _____</p> <p>Tree Line _____</p> <p>Water Edge _____</p> <p>Ledge _____</p> <p>Fence: CHAIN LINK _____, BARB WIRE _____, STOCKADE _____</p> <p>Sign _____</p> <p>Clearing Limit Line _____</p> <p>Bush Line _____</p> <p>Rock/Boulder _____</p> <p>Flag Pole _____</p> <p>Well _____</p> <p>Mallbox _____</p> |
| <p>Sanitary Sewer _____</p> <p>Telephone Line _____</p> <p>Electric Line _____</p> <p>Water Line _____</p> <p>Underdrain Line _____</p> <p>Gas Line _____</p> <p>Guardrail _____</p> <p>Culvert _____</p> | <p>Existing _____</p> <p>Proposed _____</p> <p>Traveled Way _____</p> <p>Ditch _____</p> <p>Catch Basin _____</p> <p>Manhole _____</p> <p>Sewer Manhole _____</p> <p>Utility Pole _____</p> <p>Fire Hydrant _____</p> <p>Curbing _____</p> |
| <p>Cut Line _____</p> <p>Stonewall _____</p> <p>Baseline _____</p> <p>Monument _____</p> <p>Iron Rod Found _____ IRF</p> <p>Replacement Pin Set _____</p> | <p>Fill Line _____</p> <p>Retaining Wall _____</p> <p>_____ 11+00 _____ 12+00</p> <p>Traverse Point _____</p> <p>Pipe Found _____ IPF</p> |

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

STATE OF MAINE
REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____,
at _____ h _____ m _____ M and
recorded in Plan Bk _____, Pg. _____
Attest: _____ REGISTER



Date: \$date\$
Username: \$user\$
Division: \$wkgroup\$
Filename: \$file\$

| ITEM | TECH | CHECKED |
|-------------------------|--------|---------|
| EXISTING CONDITION PLAN | T.L.B. | D.H. |
| FINAL RIGHT OF WAY | T.L.B. | B.D.M. |
| AREAS | T.L.B. | J.D.F. |

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
OAKFIELD
RIGHT OF WAY MAP

| REVISIONS | | | PLAN FILED IN PLAN BOOK | | | | PAGE COUNTY RECORD | | | | |
|-----------|------|-------------|-------------------------|---------|------------|------|--------------------|------|--|--|--|
| NO. | DATE | DESCRIPTION | NO. | GRANTOR | INSTRUMENT | DATE | BOOK | PAGE | | | |
| | | | | | | | | | | | |

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER

DATE _____

STATE AID HIGHWAY NO. 1
RIDGE ROAD
OAKFIELD AROOSTOOK COUNTY
STATE PROJECT NO. 23697.00

SEPTEMBER 2023
SCALE 1" = 25'

RIGHT-OF-WAY MAP
SHEET 1 OF 1

D.O.T. FILE NO. 2-647

SHEET NUMBER
14
OF 14